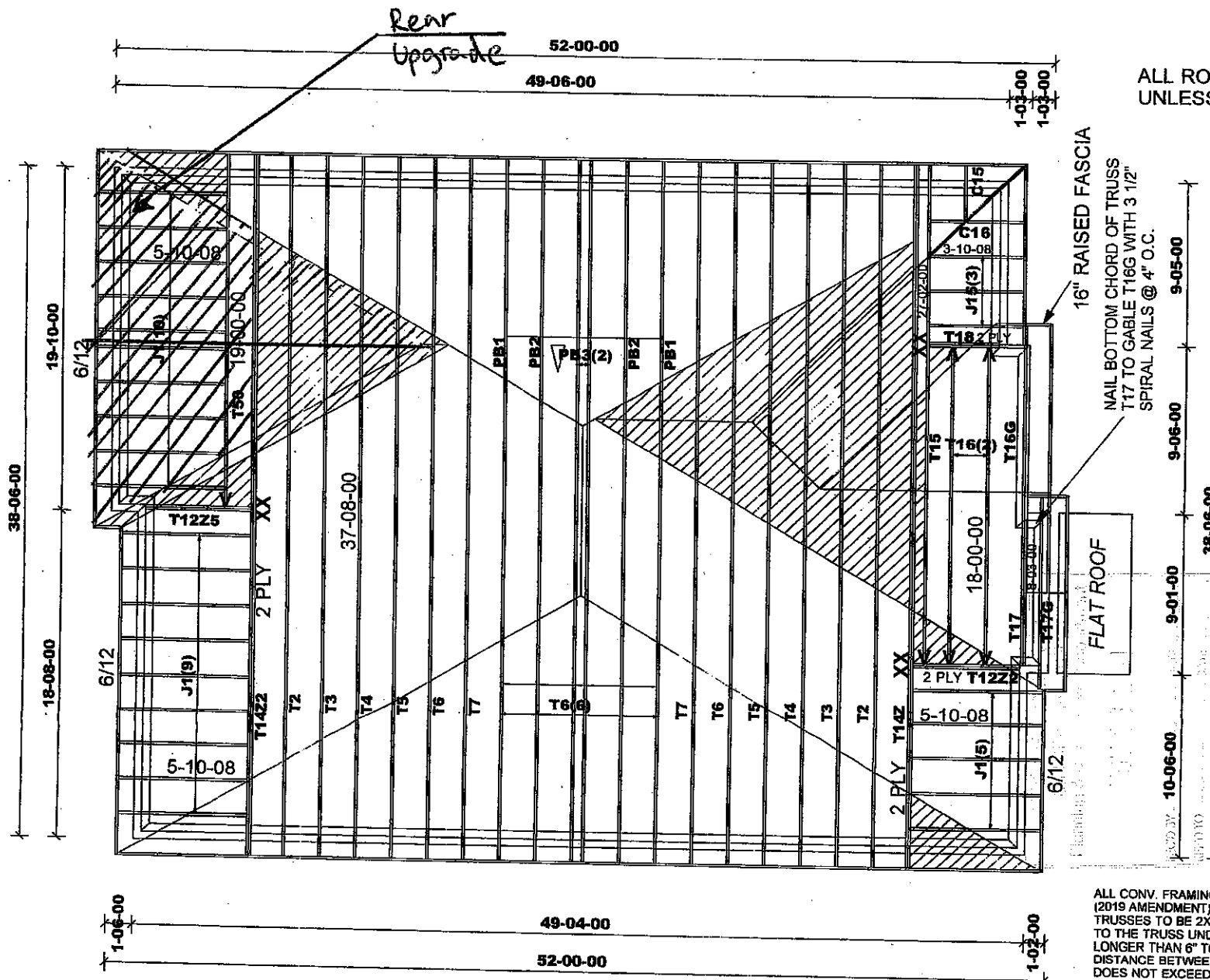




ALL ROOF PITCHES ARE 10/12  
UNLESS OTHERWISE NOTED

ASPHALT SHINGLES  
12" FINISHED OH.  
R.T.M.C.  
2X6 EXTERIOR WALLS  
2X6 FASCIA BOARD

HARDWARE:  
LJS26DS - (V)  
HGUS26-2 - (XX)

DENOTES  
CONV.  
FRAMING



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

ALL CONV. FRAMING TO CONFORM WITH PART 9 OF O.B.C.2012  
(2019 AMENDMENT) ROOF RAFTERS THAT CROSS MEET OVER  
TRUSSES TO BE 2X4 SPF @ 24" O.C. WITH A 2X4 VERT. POST  
TO THE TRUSS UNDER NEATH AT EACH CROSS PT. VERT. POST  
LONGER THAN 6" TO HAVE LATERAL BRACING SO THAT THE  
DISTANCE BETWEEN END PT. & BETWEEN ROWS OF BRACING  
DOES NOT EXCEED 6"

M13791



Job Track: **52166**  
Plan Log: **204477**  
Layout ID: **417418**

Builder / Location:

**GREENPARK HOMES / HAMILTON**

Project: **RUSSELL GARDENS PH.4**

Date: **2021-03-22**

Sales:

Rick DiCiano

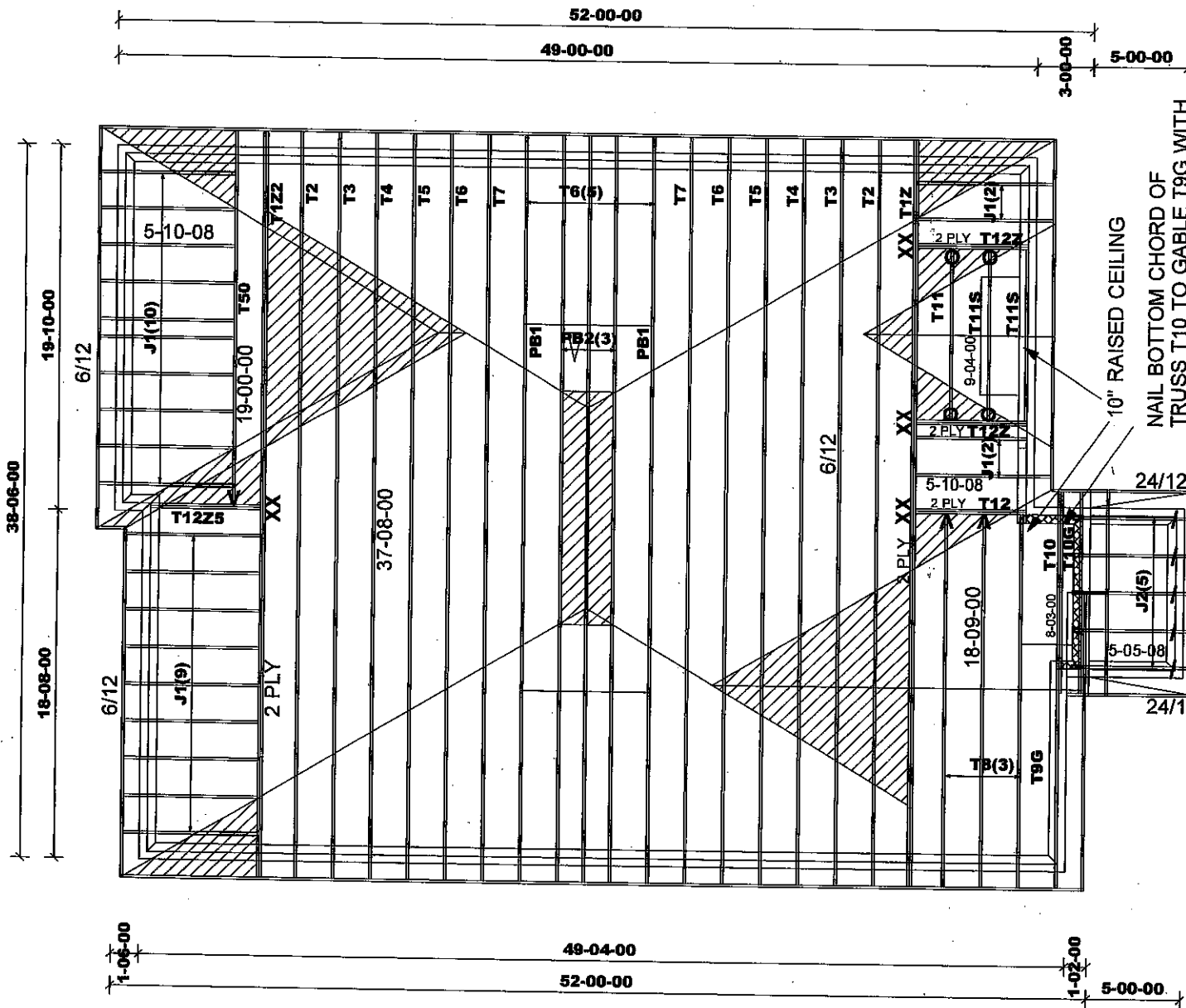
Designer: LC

Model / Elevation:

**SPRINGFIELD 1S / EL.2 (WALKOUT CONDITION)**  
**+ Rear upgrade**

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.

Mitek ver 8.4.2.286



ALL ROOF PITCHES ARE 10/12  
UNLESS OTHERWISE NOTED

ASPHALT SHINGLES  
12" FINISHED OH.  
R.T.M.C.  
2X6 EXTERIOR WALLS  
2X6 FASCIA BOARD

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

DENOTES  
CONV.  
FRAMING

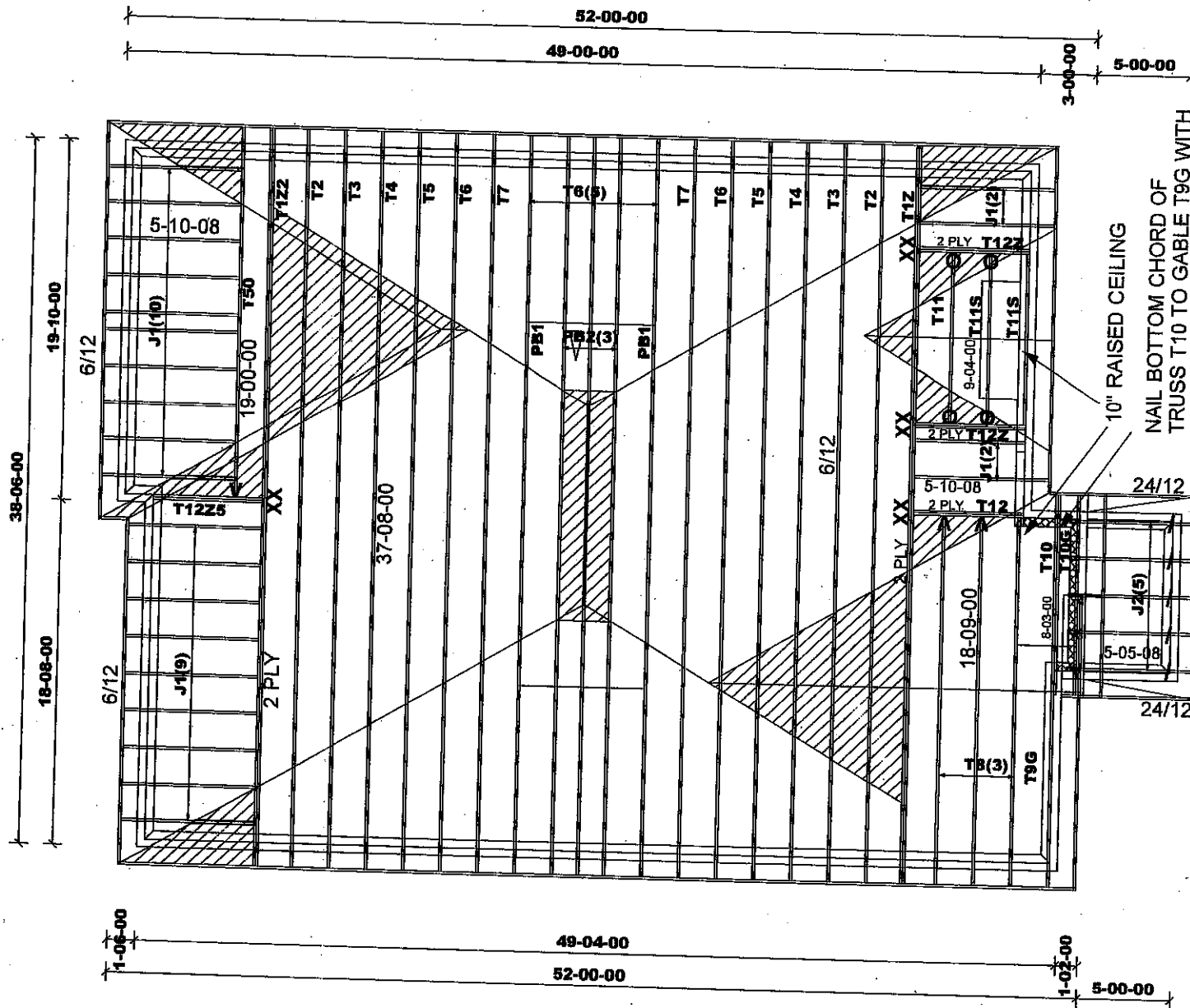
DESIGN CONFORMS WITH  
OBC 2012  
(2019 AMENDMENT)  
OCCUPANCY: RESIDENTIAL  
PART: 9  
Ss = 31.3 psf Sr = 8.4 psf

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

ALL CONV. FRAMING TO CONFORM WITH PART 9 OF O.B.C.2012  
(2019 AMENDMENT) ROOF RAFTERS THAT CROSS MEET OVER  
TRUSSES TO BE 2X4 SPF @ 24" O.C. WITH A 2X4 VERT. POST  
TO THE TRUSS UNDER NEATH AT EACH CROSS PT. VERT. POST  
LONGER THAN 6" TO HAVE LATERAL BRACING SO THAT THE  
DISTANCE BETWEEN END PT. & BETWEEN ROWS OF BRACING  
DOES NOT EXCEED 6"



|                          |                                                          |                                                                                                                                                                                                                                                                                                                               |
|--------------------------|----------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Job Track: <b>52166</b>  | Builder / Location:<br><b>GREENPARK HOMES / HAMILTON</b> | Model / Elevation:<br><b>SPRINGFIELD 1S / EL.1</b>                                                                                                                                                                                                                                                                            |
| Plan Log: <b>204477</b>  | Project: <b>RUSSELL GARDENS PH.4</b>                     |                                                                                                                                                                                                                                                                                                                               |
| Layout ID: <b>417416</b> | Date: <b>2021-03-22</b>                                  | Sales: <b>Rick DiCiano</b>                                                                                                                                                                                                                                                                                                    |
|                          | Designer: <b>LC</b>                                      | THESE DRAWINGS CONSTITUTE THE PROPERTY OF TAMARACK ROOF TRUSSES INC., SHALL NOT BE REPRODUCED, PUBLISHED, OR REDISTRIBUTED IN ANY MANNER OR UTILIZED FOR ANY PURPOSE OTHER THAN THE MANUFACTURE OF TRUSSES BY TAMARACK ROOF TRUSSES INC AND WILL BE RETRACTED BY TAMARACK ROOF TRUSSES INC IF UTILIZED FOR ANY OTHER PURPOSE. |



ALL ROOF PITCHES ARE 10/12  
UNLESS OTHERWISE NOTED

ASPHALT SHINGLES  
12" FINISHED OH.  
R.T.M.C.  
2X6 EXTERIOR WALLS  
2X6 FASCIA BOARD

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

DENOTES CONV. FRAMING

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

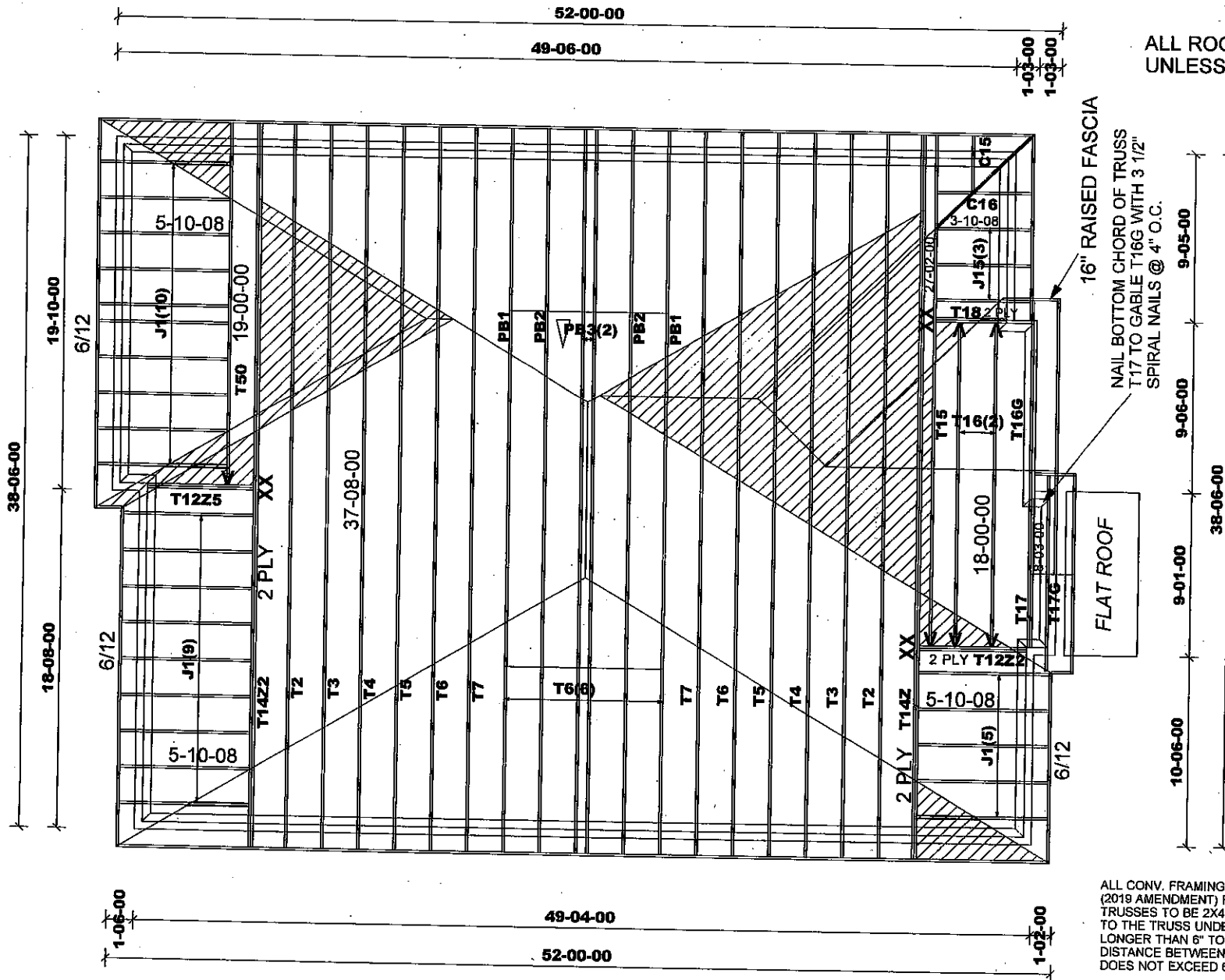
ALL CONV. FRAMING TO CONFORM WITH PART 9 OF O.B.C.2012  
(2019 AMENDMENT) ROOF RAFTERS THAT CROSS MEET OVER  
TRUSSES TO BE 2X4 SPF @ 24" O.C. WITH A 2X4 VERT. POST  
TO THE TRUSS UNDER NEATH AT EACH CROSS PT. VERT. POST  
LONGER THAN 6" TO HAVE LATERAL BRACING SO THAT THE  
DISTANCE BETWEEN END PT. & BETWEEN ROWS OF BRACING  
DOES NOT EXCEED 6"

FINAL PLANS CHECKED NO CHANGE FOR TRS. AUG 13/21 S.V



|                          |                                                       |                                                                     |
|--------------------------|-------------------------------------------------------|---------------------------------------------------------------------|
| Job Track: <b>52166</b>  | Builder / Location: <b>GREENPARK HOMES / HAMILTON</b> | Model / Elevation: <b>SPRINGFIELD 1S / EL.1 (WALKOUT CONDITION)</b> |
| Plan Log: <b>204477</b>  | Project: <b>RUSSELL GARDENS PH.4</b>                  | <b>+ Rear upgrade</b>                                               |
| Layout ID: <b>417416</b> | Date: <b>2021-03-22</b>                               | Sales: <b>Rick DiCiano</b>                                          |
|                          | Designer: <b>LC</b>                                   |                                                                     |

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

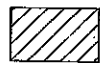


ALL ROOF PITCHES ARE 10/12  
UNLESS OTHERWISE NOTED

ASPHALT SHINGLES  
12" FINISHED OH.  
R.T.M.C.  
2X6 EXTERIOR WALLS  
2X6 FASCIA BOARD

HARDWARE:  
LJS26DS - (V)  
HGUS26-2 - (XX)

DENOTES  
CONV.  
FRAMING



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

ALL CONV. FRAMING TO CONFORM WITH PART 9 OF O.B.C.2012  
(2019 AMENDMENT) ROOF RAFTERS THAT CROSS MEET OVER  
TRUSSES TO BE 2X4 SPF @ 24" O.C. WITH A 2X4 VERT. POST  
TO THE TRUSS UNDER NEATH AT EACH CROSS PT. VERT. POST  
LONGER THAN 6" TO HAVE LATERAL BRACING SO THAT THE  
DISTANCE BETWEEN END PT. & BETWEEN ROWS OF BRACING  
DOES NOT EXCEED 6"

M13791



Job Track: **52166**

Plan Log: **204477**

Layout ID: **417418**

Builder / Location:

**GREENPARK HOMES / HAMILTON**

Project: **RUSSELL GARDENS PH.4**

Date: **2021-03-22**

Sales:

Rick DiCiano

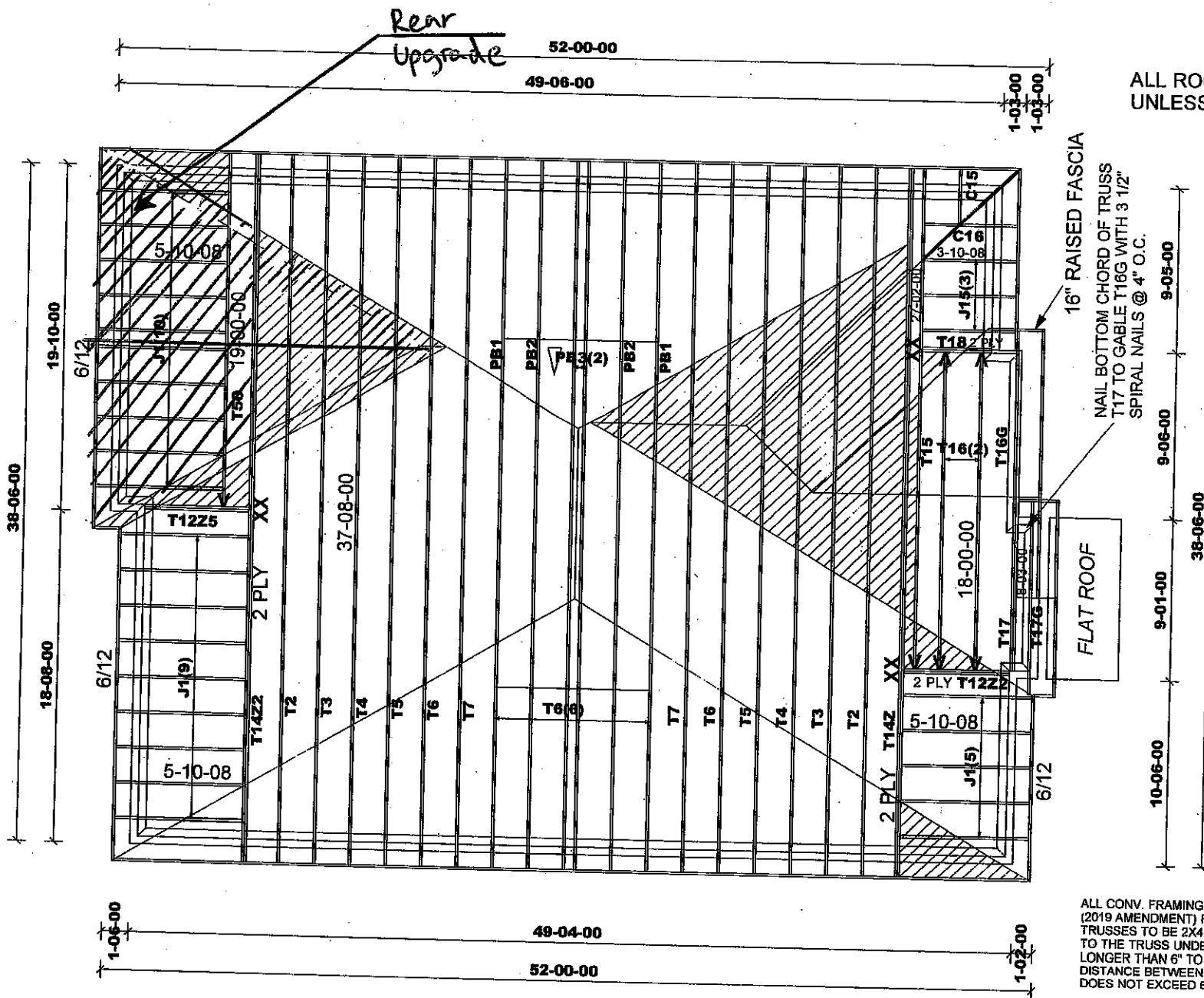
Designer: LC

Model / Elevation:

**SPRINGFIELD 1S / EL.2**

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.

Mitek ver 8.4.2.286



ALL ROOF PITCHES ARE 10/12  
UNLESS OTHERWISE NOTED

ASPHALT SHINGLES  
12" FINISHED OH.  
R.T.M.C.  
2X6 EXTERIOR WALLS  
2X6 FASCIA BOARD

HARDWARE:  
LJS26DS - (V)  
HGUS26-2 - (XX)

DENOTES  
CONV.  
FRAMING



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

ALL CONV. FRAMING TO CONFORM WITH PART 9 OF O.B.C.2012  
(2019 AMENDMENT) ROOF RAFTERS THAT CROSS MEET OVER  
TRUSSES TO BE 2X4 SPF @ 24" O.C. WITH A 2X4 VERT. POST  
TO THE TRUSS UNDER NEATH AT EACH CROSS PT. VERT. POST  
LONGER THAN 6" TO HAVE LATERAL BRACING SO THAT THE  
DISTANCE BETWEEN END PT. & BETWEEN ROWS OF BRACING  
DOES NOT EXCEED 8"

M13791

FINAL PLANS CHECKED NO CHANGE FOR TRS. AUG 13/21 S.V



Job Track: 52166  
Plan Log: 204477  
Layout ID: 417418

Builder / Location:

GREENPARK HOMES / HAMILTON

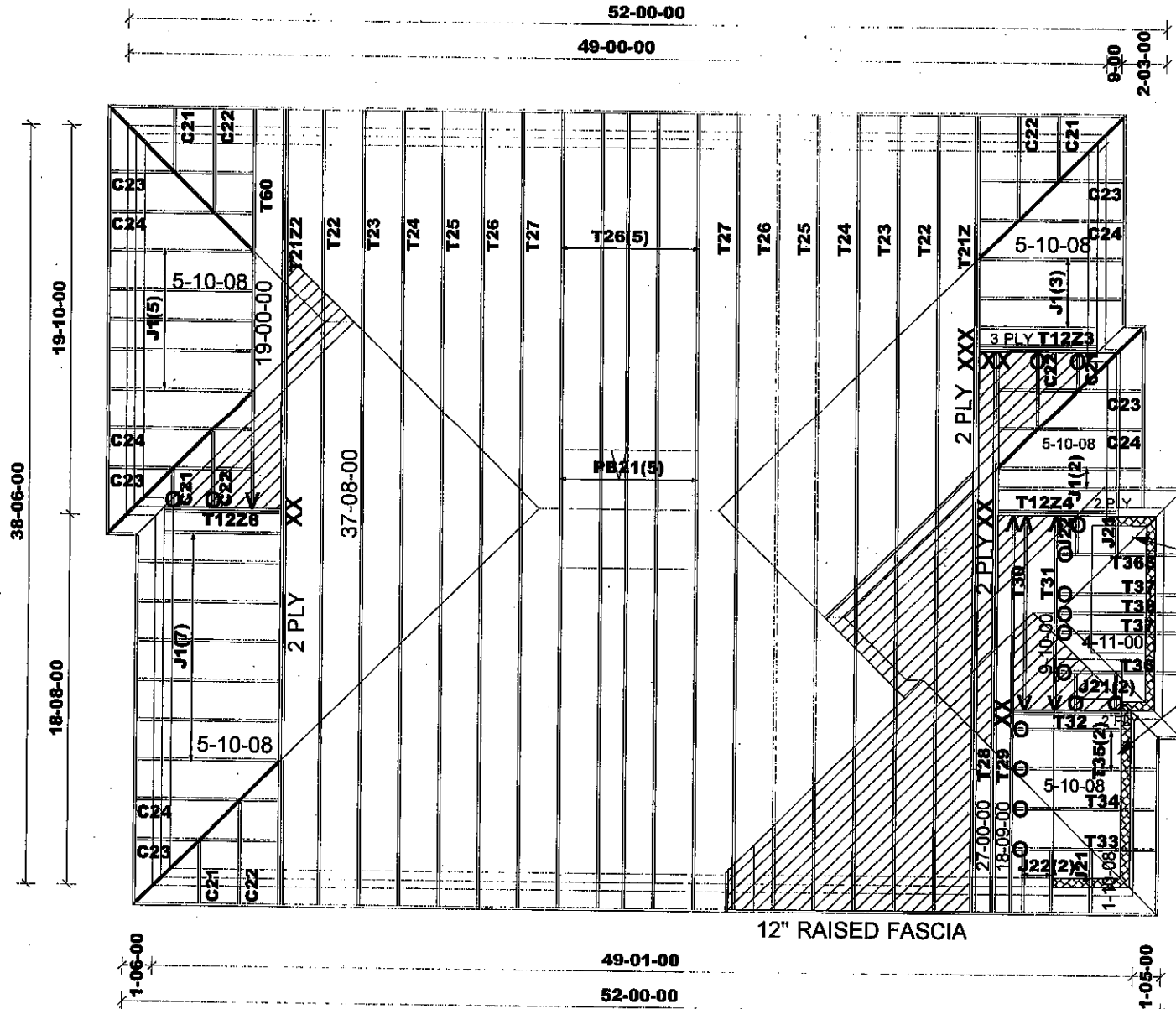
Project: RUSSELL GARDENS PH.4

Date: 2021-03-22 Sales: Rick DiCiano Designer: LC

Model / Elevation:

SPRINGFIELD 1S / EL.2 (WALKOUT CONDITION)  
+ Rear upgrade

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.



ALL ROOF PITCHES ARE 6/12  
UNLESS OTHERWISE NOTED

ASPHALT SHINGLES  
12" FINISHED OH.  
R.T.M.C.  
2X6 EXTERIOR WALLS  
2X6 FASCIA BOARD

HARDWARE:  
LUS24 - (O)  
LJS26DS - (V)  
HGUS26-2 - (XX)  
HGUS26-3 - (XXX)

DENOTES  
CONV.  
FRAMING



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

ALL CONV. FRAMING TO CONFORM WITH PART 9 OF O.B.C.2012  
(2019 AMENDMENT) ROOF RAFTERS THAT CROSS MEET OVER  
TRUSSES TO BE 2X4 SPF @ 24" O.C. WITH A 2X4 VERT. POST  
TO THE TRUSS UNDER NEATH AT EACH CROSS PT. VERT. POST  
LONGER THAN 6" TO HAVE LATERAL BRACING SO THAT THE  
DISTANCE BETWEEN END PT. & BETWEEN ROWS OF BRACING  
DOES NOT EXCEED 6"

M13491



Job Track: **52166**  
Plan Log: **204477**  
Layout ID: **417419**

Builder / Location:

**GREENPARK HOMES / HAMILTON**

Model / Elevation:

**SPRINGFIELD 1S / EL.3**

Project: **RUSSELL GARDENS PH.4**

Date: **2021-03-22** Sales: **Rick DiCiano** Designer: **LC**

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.

Milek ver 8.4.2.288



## DELIVERY SHIPLIST

Lumber Yard: TAMARACK LUMBER  
 Builder: GREENPARK HOMES  
 Project: RUSSELL GARDENS PH.4  
 Location: HAMILTON  
 Model: SPRINGFIELD 1S  
 Lot #:   
 Elevation: EL.1

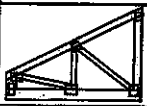
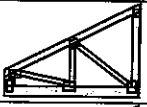
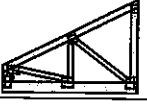
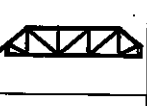
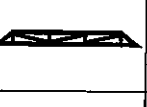
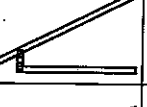
Job Track: 52166  
 PlanLog: 204477  
 Layout ID: 417416  
 Ref #  
 Page: 1 of 2  
 Date: 03-22-2021  
 Designer: Leo Chen  
 Sales Rep: Rick DiCiano

### 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 | T12<br>Hip Girder    | 10 /12 | 37-08-00 | 4-01-10  | 2 x 6          | 1-03-08<br>1-03-08        | 1-07-11<br>1-07-11           | 441.79<br>261.33  |                     |                    |
|         | 1<br>2-ply | T122<br>Hip Girder   | 10 /12 | 37-08-00 | 4-01-10  | 2 x 6          | 1-03-08<br>1-03-08        | 1-07-11<br>1-07-11           | 441.79<br>261.33  |                     |                    |
|         | 2          | T2<br>Hip            | 10 /12 | 37-08-00 | 5-01-04  | 2 x 4<br>2 x 6 | 1-03-08<br>1-03-08        | 1-07-11<br>1-07-11           | 357<br>223.33     |                     |                    |
|         | 2          | T3<br>Hip            | 10 /12 | 37-08-00 | 6-01-04  | 2 x 4<br>2 x 6 | 1-03-08<br>1-03-08        | 1-07-11<br>1-07-11           | 374.73<br>232.00  |                     |                    |
|         | 2          | T4<br>Hip            | 10 /12 | 37-08-00 | 7-01-04  | 2 x 4<br>2 x 6 | 1-03-08<br>1-03-08        | 1-07-11<br>1-07-11           | 391.79<br>241.00  |                     |                    |
|         | 2          | T5<br>Hip            | 10 /12 | 37-08-00 | 8-01-04  | 2 x 4<br>2 x 6 | 1-03-08<br>1-03-08        | 1-07-11<br>1-07-11           | 407.62<br>254.67  |                     |                    |
|         | 7          | T6<br>Hip            | 10 /12 | 37-08-00 | 9-01-04  | 2 x 4<br>2 x 6 | 1-03-08<br>1-03-08        | 1-07-11<br>1-07-11           | 1487.72<br>912.33 |                     |                    |
|         | 2          | T7<br>Hip            | 10 /12 | 37-08-00 | 10-01-04 | 2 x 4<br>2 x 6 | 1-03-08<br>1-03-08        | 1-07-11<br>1-07-11           | 443.09<br>272.67  |                     |                    |
|         | 3          | T8<br>Common         | 10 /12 | 18-09-00 | 9-05-07  | 2 x 4          | 1-03-08                   | 1-07-11<br>1-07-11           | 279.43<br>178.00  |                     |                    |
|         | 1          | T9G<br>GABLE         | 10 /12 | 18-09-00 | 9-05-07  | 2 x 4          | 1-03-08<br>1-03-08        | 1-07-11<br>9-11              | 100.98<br>66.33   |                     |                    |
|         | 1          | T10<br>Common        | 10 /12 | 8-03-00  | 4-10-12  | 2 x 4          | 1-03-08<br>1-03-08        | 9-11<br>9-11                 | 35.92<br>24.00    |                     |                    |
|         | 1          | T10G<br>GABLE        | 10 /12 | 8-03-00  | 4-10-12  | 2 x 4          | 1-03-08<br>1-03-08        | 9-11<br>9-11                 | 33.08<br>22.00    |                     |                    |
|         | 1          | T11<br>Common        | 10 /12 | 9-04-00  | 5-06-05  | 2 x 4          |                           | 1-07-11<br>1-07-11           | 39<br>26.17       |                     |                    |
|         | 2          | T11S<br>Roof Special | 10 /12 | 9-04-00  | 5-06-05  | 2 x 4          |                           | 1-07-11<br>1-07-11           | 91.09<br>65.00    |                     |                    |

|                                                                                                                                                                     |                          |                      |            |              |        |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|----------------------|------------|--------------|--------|
|  <p><b>TAMARACK</b><br/>ROOF TRUSSES INC.<br/><small>ALPHA LUMBER GROUP</small></p> | <b>DELIVERY SHIPLIST</b> |                      |            |              |        |
|                                                                                                                                                                     | Lumber Yard:             | TAMARACK LUMBER      |            | Job Track:   | 52166  |
|                                                                                                                                                                     | Builder:                 | GREENPARK HOMES      |            | PlanLog:     | 204477 |
|                                                                                                                                                                     | Project:                 | RUSSELL GARDENS PH.4 |            | Layout ID:   | 417416 |
|                                                                                                                                                                     | Location:                | HAMILTON             |            | Ref #        |        |
|                                                                                                                                                                     | Model:                   | SPRINGFIELD 1S       |            | Page:        | 2 of 2 |
| Lot #:                                                                                                                                                              |                          |                      | Date:      | 03-22-2021   |        |
| Elevation:                                                                                                                                                          | EL.1                     |                      | Designer:  | Leo Chen     |        |
|                                                                                                                                                                     |                          |                      | 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 | T12<br>Monopitch<br>Girder   | 6 /12  | 5-10-08  | 4-01-04 | 2 x 4<br>2 x 6 |                           | 1-02-00<br>4-01-04           | 58.39<br>37.67   |                     |                    |
|    | 2<br>2-ply | T12Z<br>Monopitch<br>Girder  | 6 /12  | 5-10-08  | 4-01-04 | 2 x 4<br>2 x 6 |                           | 1-02-00<br>4-01-04           | 116.79<br>75.33  |                     |                    |
|    | 1<br>2-ply | T12Z5<br>Monopitch<br>Girder | 6 /12  | 5-10-08  | 4-01-04 | 2 x 4<br>2 x 6 |                           | 1-02-00<br>4-01-04           | 58.39<br>37.67   |                     |                    |
|    | 1          | T50<br>Hip Girder            | 10 /12 | 19-00-00 | 4-01-04 | 2 x 4          | 1-03-08                   | 1-07-11<br>1-07-11           | 81.95<br>54.00   |                     |                    |
|   | 2          | PB1<br>Piggyback             | 10 /12 | 19-09-01 | 2-00-00 | 2 x 4          |                           |                              | 122.69<br>79.00  |                     |                    |
|  | 3          | PB2<br>Piggyback             | 10 /12 | 19-09-01 | 3-00-00 | 2 x 4          |                           |                              | 186.16<br>118.50 |                     |                    |
|  | 23         | J1<br>Jack-Open              | 6 /12  | 5-10-08  | 4-01-04 | 2 x 4          | 1-03-08                   | 1-02-00<br>4-01-04           | 386.27<br>245.33 |                     |                    |
|  | 5          | J2<br>Jack-Open              | 4 /12  | 5-05-08  | 2-06-11 | 2 x 4          | 1-03-08                   | 3-15<br>2-01-12              | 72.24<br>46.67   |                     |                    |

TOTAL # TRUSS= 72

TOTAL BFT OF ALL TRUSSES= 3734.33

BFT.

TOTAL WEIGHT OF ALL TRSSES 6007.91 LBS

## HARDWARE

| QTY | TYPE     | MODEL    | LENGTH |
|-----|----------|----------|--------|
| 5   | Hardware | H2.5T    |        |
| 4   | Hardware | HGUS26-2 |        |
| 3   | Hardware | LJS26DS  |        |
| 4   | Hardware | LUS24    |        |

TOTAL NUMBER OF ITEMS= 16



# DELIVERY SHIPLIST

Lumber Yard: TAMARACK LUMBER  
 Builder: GREENPARK HOMES  
 Project: RUSSELL GARDENS PH.4  
 Location: HAMILTON  
 Model: SPRINGFIELD 1S  
 Lot #:   
 Elevation: EL.2

Job Track: 52166  
 PlanLog: 204477  
 Layout ID: 417418  
 Ref #  
 Page: 1 of 2  
 Date: 03-22-2021  
 Designer: Leo Chen  
 Sales Rep: Rick DiCiano

## Roof Trusses

| PROFILE | QTY<br>PLY | MARK<br>TYPE                 | PITCH  | SPAN     | HEIGHT   | LUMBER         | OVERHANG<br>LEFT<br>RIGHT | HEEL HEIGHT<br>LEFT<br>RIGHT | LBS.<br>BFT.       | BUNDLE #<br>STACK # | LOAD BY<br>REMARKS |
|---------|------------|------------------------------|--------|----------|----------|----------------|---------------------------|------------------------------|--------------------|---------------------|--------------------|
|         | 2          | T2<br>Hip                    | 10 /12 | 37-08-00 | 5-01-04  | 2 x 4<br>2 x 6 | 1-03-08<br>1-03-08        | 1-07-11<br>1-07-11           | 357<br>223.33      |                     |                    |
|         | 2          | T3<br>Hip                    | 10 /12 | 37-08-00 | 6-01-04  | 2 x 4<br>2 x 6 | 1-03-08<br>1-03-08        | 1-07-11<br>1-07-11           | 374.73<br>232.00   |                     |                    |
|         | 2          | T4<br>Hip                    | 10 /12 | 37-08-00 | 7-01-04  | 2 x 4<br>2 x 6 | 1-03-08<br>1-03-08        | 1-07-11<br>1-07-11           | 391.79<br>241.00   |                     |                    |
|         | 2          | T5<br>Hip                    | 10 /12 | 37-08-00 | 8-01-04  | 2 x 4<br>2 x 6 | 1-03-08<br>1-03-08        | 1-07-11<br>1-07-11           | 407.62<br>254.67   |                     |                    |
|         | 8          | T6<br>Hip                    | 10 /12 | 37-08-00 | 9-01-04  | 2 x 4<br>2 x 6 | 1-03-08<br>1-03-08        | 1-07-11<br>1-07-11           | 1700.25<br>1042.67 |                     |                    |
|         | 2          | T7<br>Hip                    | 10 /12 | 37-08-00 | 10-01-04 | 2 x 4<br>2 x 6 | 1-03-08<br>1-03-08        | 1-07-11<br>1-07-11           | 443.09<br>272.67   |                     |                    |
|         | 1<br>2-ply | T12Z2<br>Monopitch<br>Girder | 6 /12  | 5-10-08  | 4-01-04  | 2 x 4<br>2 x 6 |                           | 1-02-00<br>4-01-04           | 58.39<br>37.67     |                     |                    |
|         | 1<br>2-ply | T12Z5<br>Monopitch<br>Girder | 6 /12  | 5-10-08  | 4-01-04  | 2 x 4<br>2 x 6 |                           | 1-02-00<br>4-01-04           | 58.39<br>37.67     |                     |                    |
|         | 1<br>2-ply | T14Z<br>Hip Girder           | 10 /12 | 37-08-00 | 4-01-10  | 2 x 6          | 1-03-08<br>1-03-08        | 1-07-11<br>1-07-11           | 451.99<br>269.33   |                     |                    |
|         | 1<br>2-ply | T14Z2<br>Hip Girder          | 10 /12 | 37-08-00 | 4-01-10  | 2 x 6          | 1-03-08<br>1-03-08        | 1-07-11<br>1-07-11           | 451.99<br>269.33   |                     |                    |
|         | 1          | T15<br>Hip Girder            | 10 /12 | 27-02-00 | 4-10-07  | 2 x 4<br>2 x 6 | 1-03-08                   | 1-07-11<br>1-07-11           | 131.81<br>84.50    |                     |                    |
|         | 2          | T16<br>Common                | 10 /12 | 18-00-00 | 9-09-11  | 2 x 4          |                           | 2-11-11<br>1-07-11           | 178.77<br>111.33   |                     |                    |
|         | 1          | T16G<br>GABLE                | 10 /12 | 18-00-00 | 9-09-11  | 2 x 4          | 1-03-08<br>1-03-08        | 2-11-11<br>1-07-11           | 98.28<br>63.17     |                     |                    |
|         | 1          | T17<br>Common                | 10 /12 | 8-03-00  | 5-00-15  | 2 x 4          | 1-03-08<br>1-03-08        | 1-07-11<br>1-07-11           | 38.78<br>25.83     |                     |                    |



# DELIVERY SHIPLIST

Lumber Yard: TAMARACK LUMBER  
 Builder: GREENPARK HOMES  
 Project: RUSSELL GARDENS PH.4  
 Location: HAMILTON  
 Model: SPRINGFIELD 1S  
 Lot #:   
 Elevation: EL.2

Job Track: 52166  
 PlanLog: 204477  
 Layout ID: 417418  
 Ref #  
 Page: 2 of 2  
 Date: 03-22-2021  
 Designer: Leo Chen  
 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          | T17G<br>GABLE              | 10 /12 | 8-03-00  | 5-00-15 | 2 x 4          | 1-03-08<br>1-03-08        | 1-07-11<br>1-07-11           | 40.44<br>27.83   |                     |                    |
|         | 1<br>2-ply | T18<br>Monopitch<br>Girder | 10 /12 | 3-10-08  | 4-10-07 | 2 x 4<br>2 x 6 |                           | 1-07-11<br>4-10-07           | 44.83<br>30.67   |                     |                    |
|         | 1          | T50<br>Hip Girder          | 10 /12 | 19-00-00 | 4-01-04 | 2 x 4          | 1-03-08                   | 1-07-11<br>1-07-11           | 81.95<br>54.00   |                     |                    |
|         | 2          | PB1<br>Piggyback           | 10 /12 | 19-09-01 | 2-00-00 | 2 x 4          |                           |                              | 122.69<br>79.00  |                     |                    |
|         | 2          | PB2<br>Piggyback           | 10 /12 | 19-09-01 | 3-00-00 | 2 x 4          |                           |                              | 124.11<br>79.00  |                     |                    |
|         | 2          | PB3<br>Piggyback           | 10 /12 | 19-09-01 | 4-00-00 | 2 x 4          |                           |                              | 128.7<br>82.67   |                     |                    |
|         | 24         | J1<br>Jack-Open            | 6 /12  | 5-10-08  | 4-01-04 | 2 x 4          | 1-03-08                   | 1-02-00<br>4-01-04           | 403.07<br>256.00 |                     |                    |
|         | 3          | J15<br>Jack-Open           | 10 /12 | 3-10-08  | 4-10-07 | 2 x 4          | 1-03-08                   | 1-07-11<br>4-10-07           | 45.68<br>29.00   |                     |                    |
|         | 1          | C15<br>Jack-Open           | 10 /12 | 1-09-07  | 3-01-09 | 2 x 4          | 1-03-08<br>1-01           | 1-07-11<br>3-01-09           | 9.85<br>7.00     |                     |                    |
|         | 1          | C16<br>Jack-Open           | 10 /12 | 1-09-07  | 3-01-09 | 2 x 4          | 1-03-08<br>2-01-01        | 1-07-11<br>3-01-09           | 12.13<br>8.33    |                     |                    |

TOTAL # TRUSS= 70

TOTAL BFT OF ALL TRUSSES= 3818.67 BFT.

TOTAL WEIGHT OF ALL TRSSES 6156.35 LBS

## HARDWARE

| QTY | TYPE     | MODEL    | LENGTH |
|-----|----------|----------|--------|
| 3   | Hardware | HGUS26-2 |        |
| 6   | Hardware | LJS26DS  |        |

TOTAL NUMBER OF ITEMS= 9



# DELIVERY SHIPLIST

Lumber Yard: TAMARACK LUMBER  
 Builder: GREENPARK HOMES  
 Project: RUSSELL GARDENS PH.4  
 Location: HAMILTON  
 Model: SPRINGFIELD 1S  
 Lot #:   
 Elevation: EL.3

Job Track: 52166  
 PlanLog: 204477  
 Layout ID: 417419  
 Ref #  
 Page: 1 of 3  
 Date: 03-22-2021  
 Designer: Leo Chen  
 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>3-ply | T1223<br>Monopitch<br>Girder | 6 /12 | 5-10-08  | 4-01-04  | 2 x 4<br>2 x 6 |                           | 1-02-00<br>4-01-04           | 87.59<br>56.50   |                     |                    |
|         | 1<br>2-ply | T1224<br>Monopitch<br>Girder | 6 /12 | 5-10-08  | 4-01-04  | 2 x 4<br>2 x 6 |                           | 1-02-00<br>4-01-04           | 58.39<br>37.67   |                     |                    |
|         | 1<br>2-ply | T1226<br>Monopitch<br>Girder | 6 /12 | 5-10-08  | 4-01-04  | 2 x 4<br>2 x 6 |                           | 1-02-00<br>4-01-04           | 58.39<br>37.67   |                     |                    |
|         | 1<br>2-ply | T21Z<br>Hip Girder           | 6 /12 | 37-08-00 | 4-01-04  | 2 x 4<br>2 x 6 | 1-03-08<br>1-03-08        | 1-02-00<br>1-02-00           | 414.88<br>257.33 |                     |                    |
|         | 1<br>2-ply | T21Z2<br>Hip Girder          | 6 /12 | 37-08-00 | 4-01-04  | 2 x 4<br>2 x 6 | 1-03-08<br>1-03-08        | 1-02-00<br>1-02-00           | 414.88<br>257.33 |                     |                    |
|         | 2          | T22<br>Hip                   | 6 /12 | 37-08-00 | 5-01-04  | 2 x 4<br>2 x 6 | 1-03-08<br>1-03-08        | 1-02-00<br>1-02-00           | 351.23<br>215.00 |                     |                    |
|         | 2          | T23<br>Hip                   | 6 /12 | 37-08-00 | 6-01-04  | 2 x 4<br>2 x 6 | 1-03-08<br>1-03-08        | 1-02-00<br>1-02-00           | 353.45<br>214.67 |                     |                    |
|         | 2          | T24<br>Hip                   | 6 /12 | 37-08-00 | 7-01-04  | 2 x 4<br>2 x 6 | 1-03-08<br>1-03-08        | 1-02-00<br>1-02-00           | 350.94<br>213.67 |                     |                    |
|         | 2          | T25<br>Hip                   | 6 /12 | 37-08-00 | 8-01-04  | 2 x 4<br>2 x 6 | 1-03-08<br>1-03-08        | 1-02-00<br>1-02-00           | 363.79<br>221.33 |                     |                    |
|         | 7          | T26<br>Hip                   | 6 /12 | 37-08-00 | 9-01-04  | 2 x 4<br>2 x 6 | 1-03-08<br>1-03-08        | 1-02-00<br>1-02-00           | 1330.2<br>807.33 |                     |                    |
|         | 2          | T27<br>Hip                   | 6 /12 | 37-08-00 | 10-01-04 | 2 x 4<br>2 x 6 | 1-03-08<br>1-03-08        | 1-02-00<br>1-02-00           | 388.36<br>237.33 |                     |                    |
|         | 1<br>2-ply | T28<br>Hip Girder            | 6 /12 | 27-00-00 | 4-01-04  | 2 x 4<br>2 x 6 | 1-03-08                   | 2-02-00<br>1-02-00           | 251.85<br>157.33 |                     |                    |
|         | 1          | T29<br>Hip Girder            | 6 /12 | 18-09-00 | 5-01-04  | 2 x 4<br>2 x 6 | 1-03-08                   | 2-02-00<br>2-02-00           | 102.1<br>63.67   |                     |                    |
|         | 1          | T30<br>Common                | 6 /12 | 9-10-00  | 4-07-08  | 2 x 4          |                           | 2-02-00<br>2-02-00           | 39.08<br>24.83   |                     |                    |



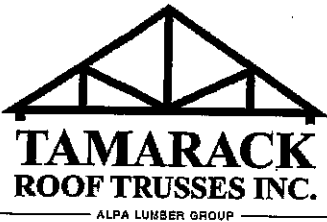
# DELIVERY SHIPLIST

Lumber Yard: TAMARACK LUMBER  
 Builder: GREENPARK HOMES  
 Project: RUSSELL GARDENS PH.4  
 Location: HAMILTON  
 Model: SPRINGFIELD 1S  
 Lot #:   
 Elevation: EL.3

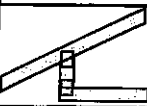
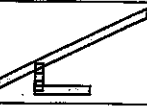
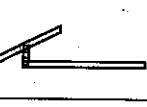
Job Track: 52166  
 PlanLog: 204477  
 Layout ID: 417419  
 Ref #  
 Page: 2 of 3  
 Date: 03-22-2021  
 Designer: Leo Chen  
 Sales Rep: Rick DiCiano

## 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          | T31<br>Roof Special<br>Girder | 6 /12 | 9-10-00  | 4-07-08 | 2 x 4          |                           | 2-02-00<br>1-02-00           | 46.36<br>30.83   |                     |                    |
|         | 1<br>2-ply | T32<br>Monopitch<br>Girder    | 6 /12 | 5-10-08  | 5-01-04 | 2 x 4<br>2 x 6 |                           | 1-02-00<br>5-01-04           | 73.96<br>49.33   |                     |                    |
|         | 1          | T33<br>Half Hip<br>Girder     | 6 /12 | 5-10-08  | 3-01-04 | 2 x 4          | 1-03-08                   | 1-02-00<br>3-01-04           | 29.56<br>20.50   |                     |                    |
|         | 1          | T34<br>Half Hip               | 6 /12 | 5-10-08  | 4-01-04 | 2 x 4          | 1-03-08                   | 1-02-00<br>4-01-04           | 31.87<br>21.50   |                     |                    |
|         | 2          | T35<br>Monopitch              | 6 /12 | 5-10-08  | 5-01-04 | 2 x 4          | 1-03-08                   | 1-02-00<br>5-01-04           | 67.9<br>45.33    |                     |                    |
|         | 1          | T36<br>Half Hip<br>Girder     | 6 /12 | 4-11-00  | 2-01-04 | 2 x 4          | 1-03-08                   | 1-02-00<br>2-01-04           | 20.86<br>14.17   |                     |                    |
|         | 1          | T36S<br>Half Hip<br>Girder    | 6 /12 | 4-11-00  | 3-01-04 | 2 x 4          | 1-03-08                   | 1-02-00<br>3-01-04           | 26.55<br>18.83   |                     |                    |
|         | 2          | T37<br>Half Hip               | 6 /12 | 4-11-00  | 4-01-04 | 2 x 4          | 1-03-08                   | 1-02-00<br>4-01-04           | 62.39<br>43.33   |                     |                    |
|         | 1          | T38<br>Monopitch              | 6 /12 | 4-11-00  | 4-07-08 | 2 x 4          | 1-03-08                   | 1-02-00<br>4-07-08           | 29.48<br>20.83   |                     |                    |
|         | 1          | T60<br>Hip Girder             | 6 /12 | 19-00-00 | 4-01-04 | 2 x 4          | 1-03-08                   | 1-02-00<br>1-02-00           | 77.27<br>50.33   |                     |                    |
|         | 5          | PB21<br>Piggyback             | 6 /12 | 5-11-00  | 1-05-12 | 2 x 4          |                           |                              | 60.26<br>43.33   |                     |                    |
|         | 17         | J1<br>Jack-Open               | 6 /12 | 5-10-08  | 4-01-04 | 2 x 4          | 1-03-08                   | 1-02-00<br>4-01-04           | 285.51<br>181.33 |                     |                    |
|         | 4          | J21<br>Jack-Open              | 6 /12 | 1-10-08  | 2-01-04 | 2 x 4          | 1-03-08                   | 1-02-00<br>2-01-04           | 28.53<br>18.87   |                     |                    |
|         | 3          | J22<br>Jack-Open              | 6 /12 | 1-10-08  | 3-01-04 | 2 x 4          | 1-03-08                   | 2-02-00<br>3-01-04           | 30.09<br>20.50   |                     |                    |

|                                                                                                                                                                     |                          |                      |              |        |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|----------------------|--------------|--------|
|  <p><b>TAMARACK</b><br/>ROOF TRUSSES INC.<br/><small>ALPHA LUMBER GROUP</small></p> | <b>DELIVERY SHIPLIST</b> |                      |              |        |
|                                                                                                                                                                     | Lumber Yard:             | TAMARACK LUMBER      | Job Track:   | 52166  |
|                                                                                                                                                                     | Builder:                 | GREENPARK HOMES      | PlanLog:     | 204477 |
|                                                                                                                                                                     | Project:                 | RUSSELL GARDENS PH.4 | Layout ID:   | 417419 |
|                                                                                                                                                                     | Location:                | HAMILTON             | Ref #        |        |
|                                                                                                                                                                     | Model:                   | SPRINGFIELD 1S       | Page:        | 3 of 3 |
| Lot #:                                                                                                                                                              |                          | Date:                | 03-22-2021   |        |
| Elevation:                                                                                                                                                          | EL.3                     | Designer:            | Leo Chen     |        |
|                                                                                                                                                                     |                          | 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 |
|----------------------------------------------------------------------------------|------------|------------------|-------|---------|---------|--------|---------------------------|------------------------------|----------------|---------------------|--------------------|
|  | 5          | C21<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           | 35.1<br>23.33  |                     |                    |
|  | 5          | C22<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           | 47.85<br>30.00 |                     |                    |
|  | 5          | C23<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           | 57.91<br>36.67 |                     |                    |
|  | 5          | C24<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           | 70.66<br>43.33 |                     |                    |

TOTAL # TRUSS= 94

TOTAL BFT OF ALL TRUSSES= 3513.8

BFT.

TOTAL WEIGHT OF ALL TRSSES 5647.27 LBS

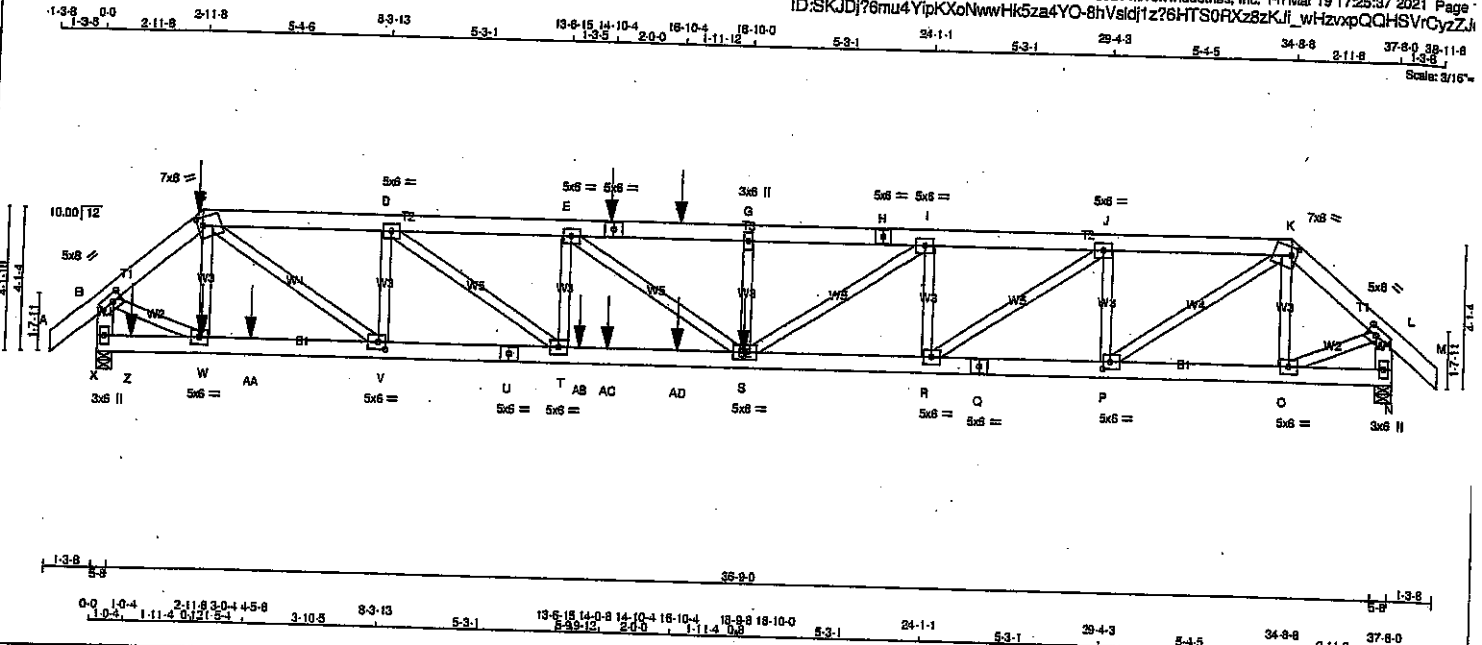
## HARDWARE

| QTY | TYPE     | MODEL    | LENGTH |
|-----|----------|----------|--------|
| 4   | Hardware | HGUS26-2 |        |
| 1   | Hardware | HGUS26-3 |        |
| 6   | Hardware | LJS26DS  |        |
| 16  | Hardware | LUS24    |        |

TOTAL NUMBER OF ITEMS= 27

| JOB NAME                        | TRUSS NAME | QUANTITY | PLY | JOB DESC.       | TRUSS DESC. | DRWG NO. |
|---------------------------------|------------|----------|-----|-----------------|-------------|----------|
| 417375                          | T1Z        | 1        | 2   | GREENPARK HOMES |             |          |
| Tamarack Roof Truss, Burlington |            |          |     |                 |             |          |

Version 8.420 S Jan 21 2021 MITek Industries, Inc. Fri Mar 19 17:25:37 2021 Page 1  
ID:SKJDJ?6mu4YipKXoNwwHk5za4YO-8hVsdJz?6HTS0RXz8zKJi\_wHvzvpQQHsvrCvZzJi



| LUMBER          |        |      |        | DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER |                                                            |                |                  | TOTAL WEIGHT = 2 X 221 = 442 lb |           |       |        |
|-----------------|--------|------|--------|-----------------------------------------------------------------------------------------------|------------------------------------------------------------|----------------|------------------|---------------------------------|-----------|-------|--------|
| N.L.G.A. RULES  | CHORDS | SIZE | LUMBER | DESCR.                                                                                        | BEARINGS                                                   | FACTORED       | MAXIMUM FACTORED | INPUT                           | REGRD     | BRG   | IN-SX  |
| A - C           | 2x6    | DRY  | No.2   | SPF                                                                                           | FACTORED                                                   | GROSS REACTION | GROSS REACTION   | BRG                             | BRG       | IN-SX | IN-SX  |
| C - F           | 2x6    | DRY  | No.2   | SPF                                                                                           | JT                                                         | VERT           | HORZ             | UPLIFT                          | IN-SX     | IN-SX | IN-SX  |
| F - H           | 2x6    | DRY  | No.2   | SPF                                                                                           | X                                                          | 4717           | 0                | 4717                            | 0         | 5-8   | 5-8    |
| H - K           | 2x6    | DRY  | No.2   | SPF                                                                                           | N                                                          | 3471           | 0                | 3471                            | 0         | 5-8   | 5-8    |
| K - M           | 2x6    | DRY  | No.2   | SPF                                                                                           | UNFACTORED REACTIONS                                       |                |                  |                                 |           |       |        |
| M - L           | 2x6    | DRY  | No.2   | SPF                                                                                           | 1ST LOASE MAX/MIN COMPONENT REACTIONS                      |                |                  |                                 |           |       |        |
| L - U           | 2x6    | DRY  | No.2   | SPF                                                                                           | JT                                                         | COMBINED       | SNOW             | LIVE                            | PERM.LIVE | WIND  | DEAD   |
| U - Q           | 2x6    | DRY  | No.2   | SPF                                                                                           | X                                                          | 3325           | 2244.0           | 0.0                             | 0.0       | 0.0   | 1081.0 |
| Q - N           | 2x6    | DRY  | No.2   | SPF                                                                                           | N                                                          | 2449           | 1841.0           | 0.0                             | 0.0       | 0.0   | 808.0  |
| ALL WEBS EXCEPT | 2x4    | DRY  | No.2   | SPF                                                                                           | BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) X, N |                |                  |                                 |           |       |        |

DRY: SEASONED LUMBER.

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

| CHORDS #ROWS                             | SURFACE SPACING (IN) | LOAD(PLF) |
|------------------------------------------|----------------------|-----------|
| TOP CHORDS : (0.122"x3") SPIRAL NAILS    |                      |           |
| A-C                                      | 2                    | 12        |
| C-F                                      | 2                    | 12        |
| F-H                                      | 2                    | 12        |
| H-K                                      | 2                    | 12        |
| K-M                                      | 2                    | 12        |
| M-L                                      | 2                    | 12        |
| L-U                                      | 2                    | 12        |
| U-Q                                      | 2                    | 12        |
| Q-N                                      | 2                    | 12        |
| BOTTOM CHORDS : (0.122"x3") SPIRAL NAILS |                      |           |
| X-U                                      | 2                    | 12        |
| U-Q                                      | 2                    | 12        |
| Q-N                                      | 2                    | 12        |
| WEBS : (0.122"x3") SPIRAL NAILS          |                      |           |
| 2x4                                      | 1                    | 6         |
| G-S                                      | 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 PLYS FOR THE LOAD TO BE TRANSFERRED TO EACH PLY.

BRACING  
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.32 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.   | WEBS  | MAX. FACTORED | FACTORED    | VERT. LOAD | LC1 MAX. | MAX.   |
|--------|---------------|-------------|------------|----------|--------|-------|---------------|-------------|------------|----------|--------|
| MEMB.  | FORCE (LBS)   | FORCE (LBS) | PLF        | CSI (LC) | UNBRAC | MEMB. | FORCE (LBS)   | FORCE (LBS) | PLF        | CSI (LC) | UNBRAC |
| FR-TO  |               |             |            |          |        | FR-TO |               |             |            |          |        |
| A-B    | 0.142         | -91.8       | -91.8      | 0.04 (1) | 10.00  | W-C   | -407.0        | 0.03 (1)    |            |          |        |
| B-C    | -4954.0       | -91.8       | -91.8      | 0.07 (1) | 5.18   | C-V   | 0.5048        | 0.45 (1)    |            |          |        |
| C-D    | -7954.0       | -91.8       | -91.8      | 0.22 (1) | 4.16   | V-D   | -2583.0       | 0.22 (1)    |            |          |        |
| D-E    | -11011.0      | -91.8       | -91.8      | 0.29 (1) | 3.56   | D-T   | 0.3720        | 0.33 (1)    |            |          |        |
| E-F    | -11897.0      | -91.8       | -91.8      | 0.41 (1) | 3.32   | T-E   | -1226.0       | 0.10 (1)    |            |          |        |
| F-G    | -11897.0      | -91.8       | -91.8      | 0.41 (1) | 3.32   | E-S   | 0.1078        | 0.10 (1)    |            |          |        |
| G-H    | -11897.0      | -91.8       | -91.8      | 0.35 (1) | 3.39   | S-G   | -580.0        | 0.05 (1)    |            |          |        |
| H-I    | -11897.0      | -91.8       | -91.8      | 0.35 (1) | 3.39   | I-I   | 0.2734        | 0.24 (1)    |            |          |        |
| I-J    | -9651.0       | -91.8       | -91.8      | 0.25 (1) | 3.81   | J-J   | -2014.0       | 0.17 (1)    |            |          |        |
| J-K    | -6610.0       | -91.8       | -91.8      | 0.17 (1) | 4.53   | K-J   | 0.3701        | 0.33 (1)    |            |          |        |
| K-L    | -3485.0       | -91.8       | -91.8      | 0.05 (1) | 5.94   | P-J   | -2609.0       | 0.22 (1)    |            |          |        |
| L-M    | 0.142         | -91.8       | -91.8      | 0.04 (1) | 10.00  | P-K   | 0.4800        | 0.42 (1)    |            |          |        |
| X-B    | -4823.0       | 0.0         | 0.0        | 0.17 (1) | 6.60   | O-K   | -822.0        | 0.07 (1)    |            |          |        |
| N-L    | -3472.0       | 0.0         | 0.0        | 0.13 (1) | 7.50   | B-W   | 0.4020        | 0.36 (1)    |            |          |        |
|        |               |             |            |          |        | O-L   | 0.2828        | 0.25 (1)    |            |          |        |

| CHORDS | MAX. FACTORED | FACTORED    | VERT. LOAD | LC1 MAX. | MAX.   | WEBS  | MAX. FACTORED | FACTORED    | VERT. LOAD | LC1 MAX. | MAX.   |
|--------|---------------|-------------|------------|----------|--------|-------|---------------|-------------|------------|----------|--------|
| MEMB.  | FORCE (LBS)   | FORCE (LBS) | PLF        | CSI (LC) | UNBRAC | MEMB. | FORCE (LBS)   | FORCE (LBS) | PLF        | CSI (LC) | UNBRAC |
| FR-TO  |               |             |            |          |        | FR-TO |               |             |            |          |        |
| A-B    | 0.142         | -91.8       | -91.8      | 0.04 (1) | 10.00  | W-C   | -407.0        | 0.03 (1)    |            |          |        |
| B-C    | -4954.0       | -91.8       | -91.8      | 0.07 (1) | 5.18   | C-V   | 0.5048        | 0.45 (1)    |            |          |        |
| C-D    | -7954.0       | -91.8       | -91.8      | 0.22 (1) | 4.16   | V-D   | -2583.0       | 0.22 (1)    |            |          |        |
| D-E    | -11011.0      | -91.8       | -91.8      | 0.29 (1) | 3.56   | D-T   | 0.3720        | 0.33 (1)    |            |          |        |
| E-F    | -11897.0      | -91.8       | -91.8      | 0.41 (1) | 3.32   | T-E   | -1226.0       | 0.10 (1)    |            |          |        |
| F-G    | -11897.0      | -91.8       | -91.8      | 0.41 (1) | 3.32   | E-S   | 0.1078        | 0.10 (1)    |            |          |        |
| G-H    | -11897.0      | -91.8       | -91.8      | 0.35 (1) | 3.39   | S-G   | -580.0        | 0.05 (1)    |            |          |        |
| H-I    | -11897.0      | -91.8       | -91.8      | 0.35 (1) | 3.39   | I-I   | 0.2734        | 0.24 (1)    |            |          |        |
| I-J    | -9651.0       | -91.8       | -91.8      | 0.25 (1) | 3.81   | J-J   | -2014.0       | 0.17 (1)    |            |          |        |
| J-K    | -6610.0       | -91.8       | -91.8      | 0.17 (1) | 4.53   | K-J   | 0.3701        | 0.33 (1)    |            |          |        |
| K-L    | -3485.0       | -91.8       | -91.8      | 0.05 (1) | 5.94   | P-J   | -2609.0       | 0.22 (1)    |            |          |        |
| L-M    | 0.142         | -91.8       | -91.8      | 0.04 (1) | 10.00  | P-K   | 0.4800        | 0.42 (1)    |            |          |        |
| X-B    | -4823.0       | 0.0         | 0.0        | 0.17 (1) | 6.60   | O-K   | -822.0        | 0.07 (1)    |            |          |        |
| N-L    | -3472.0       | 0.0         | 0.0        | 0.13 (1) | 7.50   | B-W   | 0.4020        | 0.36 (1)    |            |          |        |
|        |               |             |            |          |        | O-L   | 0.2828        | 0.25 (1)    |            |          |        |

| CHORDS | MAX. FACTORED | FACTORED    | VERT. LOAD | LC1 MAX. | MAX.   | WEBS  | MAX. FACTORED | FACTORED    | VERT. LOAD | LC1 MAX. | MAX.   |
|--------|---------------|-------------|------------|----------|--------|-------|---------------|-------------|------------|----------|--------|
| MEMB.  | FORCE (LBS)   | FORCE (LBS) | PLF        | CSI (LC) | UNBRAC | MEMB. | FORCE (LBS)   | FORCE (LBS) | PLF        | CSI (LC) | UNBRAC |
| FR-TO  |               |             |            |          |        | FR-TO |               |             |            |          |        |
| A-B    | 0.142         | -91.8       | -91.8      | 0.04 (1) | 10.00  | W-C   | -407.0        | 0.03 (1)    |            |          |        |
| B-C    | -4954.0       | -91.8       | -91.8      | 0.07 (1) | 5.18   | C-V   | 0.5048        | 0.45 (1)    |            |          |        |
| C-D    | -7954.0       | -91.8       | -91.8      | 0.22 (1) | 4.16   | V-D   | -2583.0       | 0.22 (1)    |            |          |        |
| D-E    | -11011.0      | -91.8       | -91.8      | 0.29 (1) | 3.56   | D-T   | 0.3720        | 0.33 (1)    |            |          |        |
| E-F    | -11897.0      | -91.8       | -91.8      | 0.41 (1) | 3.32   | T-E   | -1226.0       | 0.10 (1)    |            |          |        |
| F-G    | -11897.0      | -91.8       | -91.8      | 0.41 (1) | 3.32   | E-S   | 0.1078        | 0.10 (1)    |            |          |        |
| G-H    | -11897.0      | -91.8       | -91.8      | 0.35 (1) | 3.39   | S-G   | -580.0        | 0.05 (1)    |            |          |        |
| H-I    | -11897.0      | -91.8       | -91.8      | 0.35 (1) | 3.39   | I-I   | 0.2734        | 0.24 (1)    |            |          |        |
| I-J    | -9651.0       | -91.8       | -91.8      | 0.25 (1) | 3.81   | J-J   | -2014.0       | 0.17 (1)    |            |          |        |
| J-K    | -6610.0       | -91.8       | -91.8      | 0.17 (1) | 4.53   | K-J   | 0.3701        | 0.33 (1)    |            |          |        |
| K-L    | -3485.0       | -91.8       | -91.8      | 0.05 (1) | 5.94   | P-J   | -2609.0       | 0.22 (1)    |            |          |        |
| L-M    | 0.142         | -91.8       | -91.8      | 0.04 (1) | 10.00  | P-K   | 0.4800        | 0.42 (1)    |            |          |        |
| X-B    | -4823.0       | 0.0         | 0.0        | 0.17 (1) | 6.60   | O-K   | -822.0        | 0.07 (1)    |            |          |        |
| N-L    | -3472.0       | 0.0         | 0.0        | 0.13 (1) | 7.50   | B-W   | 0.4020        | 0.36 (1)    |            |          |        |
|        |               |             |            |          |        | O-L   | 0.2828        | 0.25 (1)    |            |          |        |

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

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

#### THIS DESIGN COMPLIES WITH:

- PART 9 OF CBC 2015, ABC 2019  
- PART 9 OF CBC 2012 (2019 AMENDMENT)  
- CSA 086-14  
- TPIC 2014

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

ALLOWABLE DEFL.(LL) = L/360 (1.26")  
CALCULATED VERT. DEFL.(LL) = L/999 (0.29")  
ALLOWABLE DEFL.(TL) = L/360 (1.26")  
CALCULATED VERT. DEFL.(TL) = L/840 (0.54")

CSI: TC=0.41/1.00 (E-G:1), BC=0.85/1.00 (S-T:1), WB=0.45/1.00 (C-V:1), SS=0.28/1.00 (S-T: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

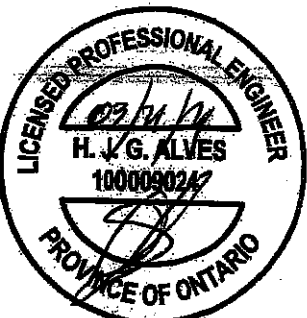
TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

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 = 0.89 (C) (INPUT = 0.90)  
JSI METAL = 0.87 (L) (INPUT = 1.00)



Structural component only  
DWG# T-2108012 1/1

|                                 |                          |                      |                 |                                     |          |
|---------------------------------|--------------------------|----------------------|-----------------|-------------------------------------|----------|
| JOB NAME<br><b>417375</b>       | TRUSS NAME<br><b>T1Z</b> | QUANTITY<br><b>1</b> | PLY<br><b>2</b> | JOB DESC.<br><b>GREENPARK HOMES</b> | DRWG NO. |
| Tamarack Roof Truss, Burlington |                          |                      |                 | TRUSS DESC.                         |          |

Version 8.420 S Jan 21 2021 Mitek Industries, Inc. Fri Mar 19 17:25:37 2021 Page 2  
ID:SKJD176mu4YtpKXoNwwHkSza4YO-8hVldi1z76HTS0RXz8zKJi wHzvxpQQH5VrCvZJg

**PLATES (table is in inches)**

| JT         | TYPE    | PLATES | W   | LEN | Y    | X    |
|------------|---------|--------|-----|-----|------|------|
| B          | TMVW-t  | MT20   | 5.0 | 8.0 | 2.50 | 3.25 |
| C          | TTWW-m  | MT20   | 7.0 | 8.0 | 2.75 | 1.75 |
| D, E, I, J |         |        |     |     |      |      |
| D          | TMVW-t  | MT20   | 5.0 | 6.0 |      |      |
| F          | TS-t    | MT20   | 5.0 | 6.0 |      |      |
| G          | TMVW-w  | MT20   | 3.0 | 6.0 |      |      |
| H          | TS-t    | MT20   | 5.0 | 6.0 |      |      |
| K          | TTWW-m  | MT20   | 7.0 | 8.0 | 2.75 | 1.75 |
| L          | TMVW-t  | MT20   | 5.0 | 8.0 | 2.50 | 3.25 |
| N          | BMV1+p  | MT20   | 3.0 | 6.0 |      |      |
| O, R, T, V |         |        |     |     |      |      |
| O          | BMVW-t  | MT20   | 5.0 | 6.0 |      |      |
| P          | BMVW-t  | MT20   | 5.0 | 6.0 | 2.50 | 2.50 |
| Q          | BS-t    | MT20   | 5.0 | 6.0 |      |      |
| S          | BMVWW-t | MT20   | 5.0 | 8.0 |      |      |
| U          | BS-t    | MT20   | 5.0 | 6.0 |      |      |
| V          | BMVW-t  | MT20   | 5.0 | 6.0 | 2.50 | 2.50 |
| X          | BMV1+p  | MT20   | 3.0 | 6.0 |      |      |

**SPECIFIED CONCENTRATED LOADS (LBS)**

| JT | LOC.    | LC1  | MAX- | MAX+ | FACE | DIR. | TYPE  | HEEL | CONN. |
|----|---------|------|------|------|------|------|-------|------|-------|
| AA | 4-5-8   | -578 | -578 | ---  | BACK | VERT | TOTAL | ---  | C1    |
| AB | 14-0-8  | -578 | -578 | ---  | BACK | VERT | TOTAL | ---  | C1    |
| AC | 14-10-4 | -21  | -21  | ---  | BACK | VERT | TOTAL | ---  | C1    |
| AD | 16-10-4 | -21  | -21  | ---  | BACK | VERT | TOTAL | ---  | C1    |

**CONNECTION REQUIREMENTS**

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

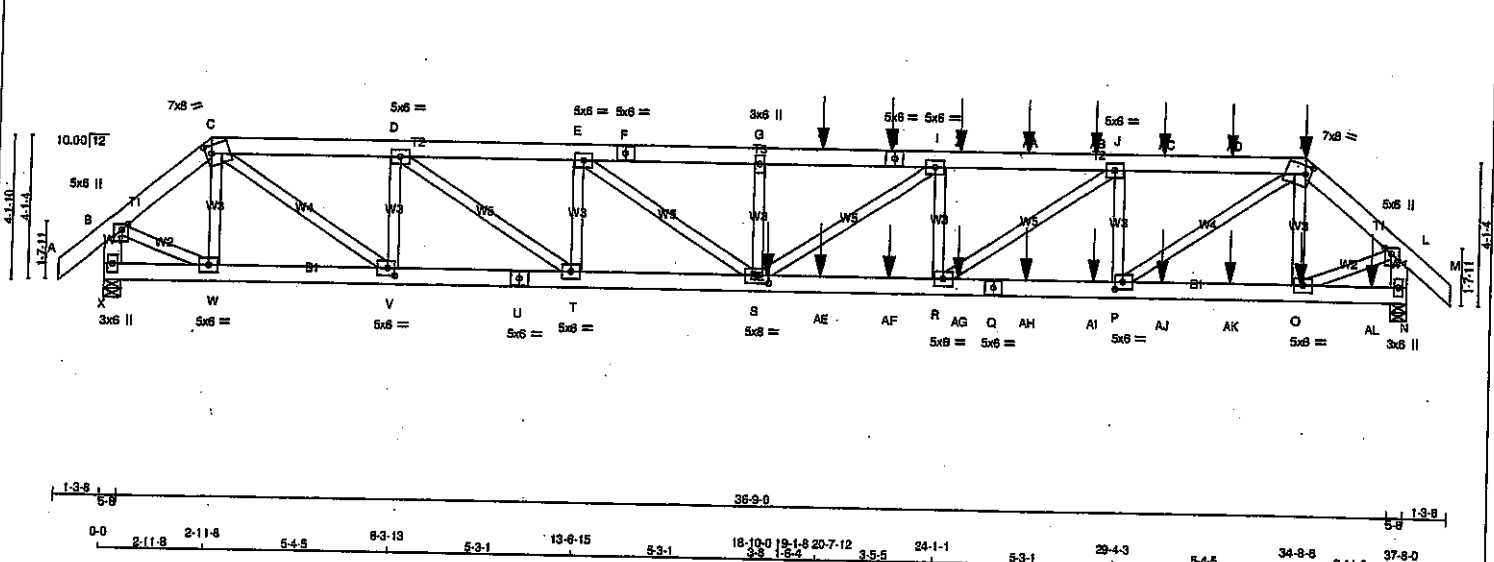
**NOTES- (1)**

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



Structural component only  
DWG# T-2108012 *9m*

|                                                                          |                           |                      |                 |                                                                                    |          |
|--------------------------------------------------------------------------|---------------------------|----------------------|-----------------|------------------------------------------------------------------------------------|----------|
| JOB NAME<br><b>417416</b>                                                | TRUSS NAME<br><b>T1Z2</b> | QUANTITY<br><b>1</b> | PLY<br><b>2</b> | JOB DESC.<br><b>GREENPARK HOMES</b>                                                | DRWG NO. |
| Tamarack Roof Truss, Burlington                                          |                           |                      |                 | Version 6.420 S Jan 21 2021 MITek Industries, Inc. Sat Mar 20 07:42:34 2021 Page 1 |          |
| ID:SKJDJ?6mu4YpKXoNwwHk5za4VO-AUpC2tz6B6pW9EN6z5Rk6lofnYuX5CYGQ96MFzZ75L |                           |                      |                 | Scale: 3/16"=1'                                                                    |          |



| LUMBER            |      |          |        |
|-------------------|------|----------|--------|
| N. L. G. A. RULES | SIZE | LUMBER   | DESCR. |
| CHORDS            |      |          |        |
| A - C             | 2x6  | DRY No.2 | SPF    |
| C - F             | 2x6  | DRY No.2 | SPF    |
| F - H             | 2x6  | DRY No.2 | SPF    |
| H - K             | 2x6  | DRY No.2 | SPF    |
| K - M             | 2x6  | DRY No.2 | SPF    |
| X - B             | 2x6  | DRY No.2 | SPF    |
| N - L             | 2x6  | DRY No.2 | SPF    |
| X - U             | 2x6  | DRY No.2 | SPF    |
| U - Q             | 2x6  | DRY No.2 | SPF    |
| Q - N             | 2x6  | DRY No.2 | SPF    |
| ALL WEBS EXCEPT   | 2x4  | DRY No.2 | SPF    |

DRY: SEASONED LUMBER.

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

| CHORDS #ROWS                             | SURFACE SPACING (IN) | LOAD (PLF) |
|------------------------------------------|----------------------|------------|
| TOP CHORDS : (0.122"x3") SPIRAL NAILS    |                      |            |
| A-C                                      | 2                    | TOP        |
| C-F                                      | 2                    | TOP        |
| F-H                                      | 2                    | TOP        |
| H-K                                      | 2                    | TOP        |
| K-M                                      | 2                    | TOP        |
| X-B                                      | 2                    | TOP        |
| N-L                                      | 2                    | TOP        |
| BOTTOM CHORDS : (0.122"x3") SPIRAL NAILS |                      |            |
| X-U                                      | 2                    | TOP        |
| U-Q                                      | 2                    | TOP        |
| Q-N                                      | 2                    | TOP        |
| WEBS : (0.122"x3") SPIRAL NAILS          |                      |            |
| 2x4                                      | 1                    | TOP        |
| G-S                                      | 1                    | TOP        |

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

| FACTORED GROSS REACTION |      | MAXIMUM FACTORED GROSS REACTION |       | INPUT BRG |       | REQD BRG |       |
|-------------------------|------|---------------------------------|-------|-----------|-------|----------|-------|
| JT                      | VERT | JT                              | HORIZ | JT        | IN-SX | JT       | IN-SX |
| X                       | 3386 | 0                               | 3386  | 0         | 5-8   | 5-8      | 5-8   |
| N                       | 4120 | 0                               | 4120  | 0         | 5-8   | 5-8      | 5-8   |

#### UNFACTORED REACTIONS

| JT | 1ST CASE | MAX. MIN. COMPONENT REACTIONS | JT    | 1ST CASE | MAX. MIN. COMPONENT REACTIONS |
|----|----------|-------------------------------|-------|----------|-------------------------------|
| X  | 2391     | 1588 / 0                      | 0 / 0 | 0 / 0    | 0 / 0                         |
| N  | 2911     | 1924 / 0                      | 0 / 0 | 0 / 0    | 0 / 0                         |

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

#### BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.42 FT.  
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

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

#### LOADING

TOTAL LOAD CASES: (4)

| CHORDS |                           | WEBS  |                           |
|--------|---------------------------|-------|---------------------------|
| MEMB.  | MAX. FACTORED FORCE (LBS) | MEMB. | MAX. FACTORED FORCE (LBS) |
| FR-TO  |                           | FR-TO |                           |
| A-B    | 0 / 42                    | W-C   | -796 / 0                  |
| B-C    | -3393 / 0                 | C-V   | 0 / 4649                  |
| C-D    | -6415 / 0                 | V-D   | -2531 / 0                 |
| D-E    | -9344 / 0                 | D-T   | 0 / 3584                  |
| E-F    | -11428 / 0                | T-E   | -1909 / 0                 |
| F-G    | -11428 / 0                | E-S   | 0 / 2637                  |
| G-Y    | -11428 / 0                | S-G   | -557 / 0                  |
| Y-H    | -11428 / 0                | S-I   | 0 / 1618                  |
| H-I    | -11428 / 0                | I-R   | -1702 / 0                 |
| I-Z    | -10099 / 0                | R-J   | 0 / 3330                  |
| Z-AA   | -10099 / 0                | J-K   | -2704 / 0                 |
| AA-AB  | -10099 / 0                | K-P   | 0 / 5075                  |
| AB-J   | -10099 / 0                | P-K   | -945 / 0                  |
| J-AC   | -7362 / 0                 | K-W   | 0 / 2753                  |
| AC-AD  | -7362 / 0                 | W-L   | 0 / 3390                  |
| AD-K   | -7362 / 0                 |       |                           |
| K-L    | -4178 / 0                 |       |                           |
| L-M    | 0 / 42                    |       |                           |
| X-B    | -3387 / 0                 |       |                           |
| N-L    | -4109 / 0                 |       |                           |

|       |           |       |       |          |       |
|-------|-----------|-------|-------|----------|-------|
| X-W   | 0 / 0     | -18.5 | -18.5 | 0.03 (1) | 10.00 |
| W-V   | 0 / 2559  | -18.5 | -18.5 | 0.20 (1) | 10.00 |
| V-U   | 0 / 6415  | -18.5 | -18.5 | 0.46 (1) | 10.00 |
| U-T   | 0 / 6415  | -18.5 | -18.5 | 0.46 (1) | 10.00 |
| T-S   | 0 / 9344  | -18.5 | -18.5 | 0.67 (1) | 10.00 |
| S-AE  | 0 / 10099 | -18.5 | -18.5 | 0.73 (1) | 10.00 |
| AE-AF | 0 / 10099 | -18.5 | -18.5 | 0.73 (1) | 10.00 |
| AF-R  | 0 / 10099 | -18.5 | -18.5 | 0.73 (1) | 10.00 |
| R-AG  | 0 / 7362  | -18.5 | -18.5 | 0.53 (1) | 10.00 |
| AG-Q  | 0 / 7362  | -18.5 | -18.5 | 0.53 (1) | 10.00 |
| Q-AH  | 0 / 7362  | -18.5 | -18.5 | 0.53 (1) | 10.00 |
| AH-AI | 0 / 7362  | -18.5 | -18.5 | 0.53 (1) | 10.00 |
| AI-P  | 0 / 7362  | -18.5 | -18.5 | 0.53 (1) | 10.00 |
| P-AJ  | 0 / 3153  | -18.5 | -18.5 | 0.25 (1) | 10.00 |
| AJ-AK | 0 / 3153  | -18.5 | -18.5 | 0.25 (1) | 10.00 |
| AK-O  | 0 / 3153  | -18.5 | -18.5 | 0.25 (1) | 10.00 |
| O-AL  | 0 / 0     | -18.5 | -18.5 | 0.04 (4) | 10.00 |
| AL-N  | 0 / 0     | -18.5 | -18.5 | 0.04 (4) | 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, NBC 2015

#### THIS DESIGN COMPLIES WITH:

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

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

ALLOWABLE DEFL.(LL) = L/360 (1.28")  
CALCULATED VERT. DEFL.(LL) = L/999 (0.27")  
ALLOWABLE DEFL.(TL) = L/360 (1.28")  
CALCULATED VERT. DEFL.(TL) = L/890 (0.51")

CSI: TC=0.38/1.00 (G-I), BC=0.73/1.00 (R-S), WB=0.45/1.00 (K-P), SBI=0.14/1.00 (J-K)

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)                      |
| 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 = 0.80)  
JSI METAL=0.67 (U) (INPUT = 1.00)



Structural component only  
DWG# T-2108069

| JOB NAME | TRUSS NAME | QUANTITY | PLY | JOB DESC.       | TRUSS DESC. | DRWG NO. |
|----------|------------|----------|-----|-----------------|-------------|----------|
| 417416   | T1Z2       | 1        | 2   | GREENPARK HOMES |             |          |

Tamarack Roof Truss, Burlington

Version 8.420 S Jan 21 2021 MITek Industries, Inc. Sat Mar 20 07:42:34 2021 Page 2  
ID:SKLDI?6mu4YpKXoNwwHk5za4YO-AUpp2tz8B6pW9EN6z5Rk6lofnYuX5CYcQ96MFzZ75J

**PLATES (table is in inches)**

| JT         | TYPE     | PLATES | W   | LEN | Y    | X    |
|------------|----------|--------|-----|-----|------|------|
| B          | TMVW+p   | MT20   | 5.0 | 6.0 | 2.00 | 2.25 |
| C          | TTWW-m   | MT20   | 7.0 | 8.0 | 2.75 | 1.75 |
| D, E, I, J |          |        |     |     |      |      |
| D          | TMVW-t   | MT20   | 5.0 | 6.0 |      |      |
| F          | TS-t     | MT20   | 5.0 | 6.0 |      |      |
| G          | TMVW+w   | MT20   | 3.0 | 6.0 |      |      |
| H          | TS-t     | MT20   | 5.0 | 6.0 |      |      |
| K          | TTWW-m   | MT20   | 7.0 | 8.0 | 2.75 | 1.75 |
| L          | TMVW+p   | MT20   | 5.0 | 6.0 | 2.00 | 2.25 |
| N          | BMV1+p   | MT20   | 3.0 | 6.0 |      |      |
| O, R, T, W |          |        |     |     |      |      |
| O          | BMVW-t   | MT20   | 5.0 | 6.0 |      |      |
| P          | BMVW-t   | MT20   | 5.0 | 6.0 | 2.50 | 2.50 |
| Q          | BS-t     | MT20   | 5.0 | 6.0 |      |      |
| S          | BMVWWT-t | MT20   | 5.0 | 8.0 | 2.75 | 4.00 |
| U          | BS-t     | MT20   | 5.0 | 6.0 |      |      |
| V          | BMVW-t   | MT20   | 5.0 | 6.0 | 2.50 | 2.50 |
| X          | BMV1+p   | MT20   | 3.0 | 6.0 |      |      |

**NOTES- (1)**

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

**SPECIFIED CONCENTRATED LOADS (LBS)**

| JT | LOC.    | LC1   | MAX-  | MAX+ | FACE  | DIR. | TYPE  | HEEL | CONN. |
|----|---------|-------|-------|------|-------|------|-------|------|-------|
| H  | 22-7-12 | -76   | -76   | ---  | FRONT | VERT | TOTAL | ---  | C1    |
| K  | 34-8-8  | -30   | -30   | ---  | FRONT | VERT | DEAD  | ---  | C1    |
| K  | 34-8-8  | -82   | -82   | ---  | FRONT | VERT | TOTAL | ---  | C1    |
| K  | 34-8-8  | -125  | -125  | ---  | FRONT | VERT | SNOW  | ---  | C1    |
| O  | 34-7-12 | -21   | -21   | ---  | FRONT | VERT | TOTAL | ---  | C1    |
| S  | 18-1-8  | -1225 | -1225 | ---  | FRONT | VERT | TOTAL | ---  | C1    |
| Y  | 20-7-12 | -76   | -76   | ---  | FRONT | VERT | TOTAL | ---  | C1    |
| Z  | 24-7-12 | -76   | -76   | ---  | FRONT | VERT | TOTAL | ---  | C1    |
| AA | 26-7-12 | -76   | -76   | ---  | FRONT | VERT | TOTAL | ---  | C1    |
| AB | 28-7-12 | -76   | -76   | ---  | FRONT | VERT | TOTAL | ---  | C1    |
| AC | 30-7-12 | -76   | -76   | ---  | FRONT | VERT | TOTAL | ---  | C1    |
| AD | 32-7-12 | -76   | -76   | ---  | FRONT | VERT | TOTAL | ---  | C1    |
| AE | 20-7-12 | -21   | -21   | ---  | FRONT | VERT | TOTAL | ---  | C1    |
| AF | 22-7-12 | -21   | -21   | ---  | FRONT | VERT | TOTAL | ---  | C1    |
| AG | 24-7-12 | -21   | -21   | ---  | FRONT | VERT | TOTAL | ---  | C1    |
| AH | 26-7-12 | -21   | -21   | ---  | FRONT | VERT | TOTAL | ---  | C1    |
| AI | 28-7-12 | -21   | -21   | ---  | FRONT | VERT | TOTAL | ---  | C1    |
| AJ | 30-7-12 | -21   | -21   | ---  | FRONT | VERT | TOTAL | ---  | C1    |
| AK | 32-7-12 | -21   | -21   | ---  | FRONT | VERT | TOTAL | ---  | C1    |
| AL | 36-7-12 | -21   | -21   | ---  | FRONT | VERT | TOTAL | ---  | C1    |

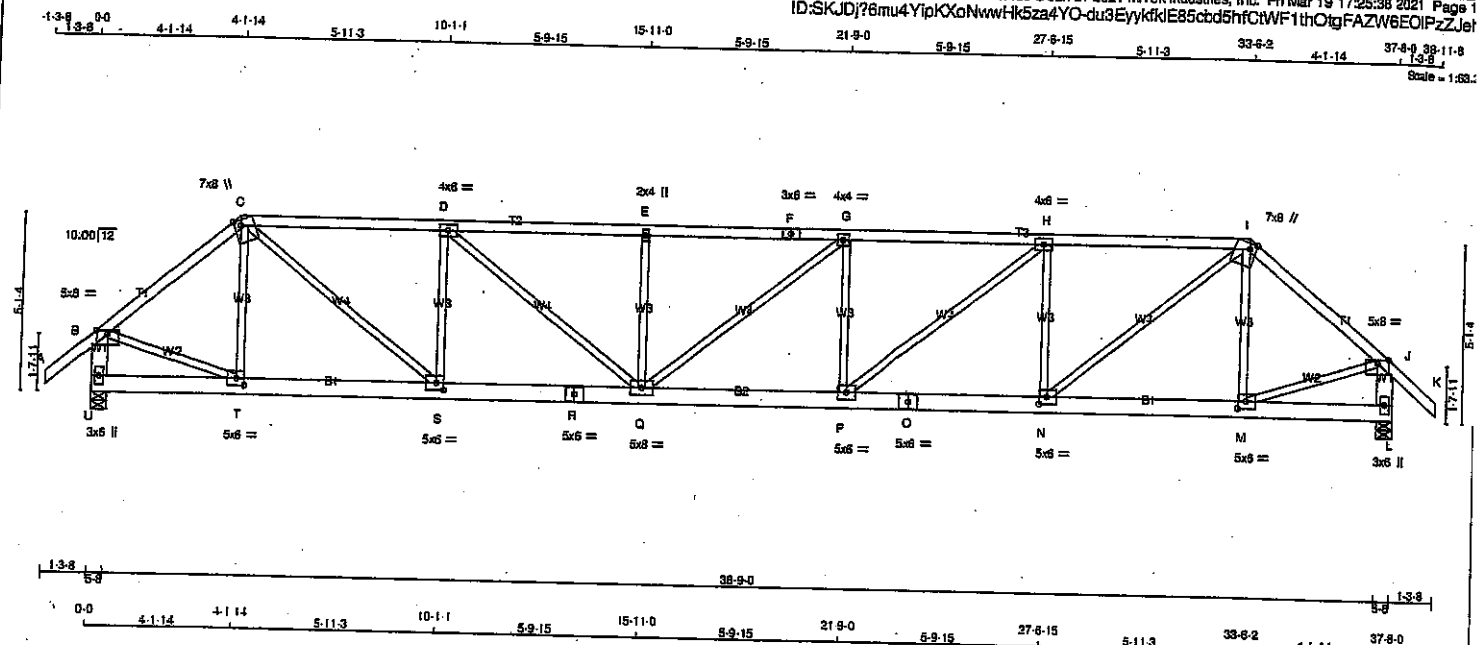
**CONNECTION REQUIREMENTS**

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



Structural component only  
DWG# T-2108069 7/2

|                                 |                         |                      |                 |                                     |          |
|---------------------------------|-------------------------|----------------------|-----------------|-------------------------------------|----------|
| JOB NAME<br><b>417375</b>       | TRUSS NAME<br><b>T2</b> | QUANTITY<br><b>2</b> | PLY<br><b>1</b> | JOB DESC.<br><b>GREENPARK HOMES</b> | DRWG NO. |
| Tamarack Roof Truss, Burlington |                         |                      |                 |                                     |          |



| LUMBER | N. L. G. A. RULES | CHORDS | SIZE | LUMBER | DESCR. |
|--------|-------------------|--------|------|--------|--------|
| A - C  | 2x4               | DRY    | No.2 | SPF    |        |
| C - F  | 2x4               | DRY    | No.2 | SPF    |        |
| F - I  | 2x4               | DRY    | No.2 | SPF    |        |
| I - K  | 2x4               | DRY    | No.2 | SPF    |        |
| U - B  | 2x6               | DRY    | No.2 | SPF    |        |
| L - J  | 2x6               | DRY    | No.2 | SPF    |        |
| U - R  | 2x6               | DRY    | No.2 | SPF    |        |
| R - O  | 2x6               | DRY    | No.2 | SPF    |        |
| O - L  | 2x6               | DRY    | No.2 | SPF    |        |

ALL WEBS 2x3 DRY No.2  
EXCEPT SPF

DRY: SEASONED LUMBER.

#### PLATES (table is in inches)

| JT      | TYPE     | PLATES | W   | LEN | Y    | X    |
|---------|----------|--------|-----|-----|------|------|
| B       | TMWW-p   | MT20   | 5.0 | 8.0 | Edge |      |
| C       | TTWW-am  | MT20   | 7.0 | 8.0 | Edge | 2.25 |
| D       | TMWW-t   | MT20   | 4.0 | 8.0 |      |      |
| E       | TMWW-w   | MT20   | 2.0 | 4.0 |      |      |
| F       | TS-t     | MT20   | 3.0 | 8.0 |      |      |
| G       | TMWW-t   | MT20   | 4.0 | 4.0 |      |      |
| H       | TMWW-t   | MT20   | 4.0 | 8.0 |      |      |
| I       | TTWW-am  | MT20   | 7.0 | 8.0 | Edge | 2.25 |
| J       | TMWW-p   | MT20   | 5.0 | 8.0 | Edge |      |
| L       | BMV1-p   | MT20   | 3.0 | 8.0 |      |      |
| M, N, T |          |        |     |     |      |      |
| M       | BMWW-t   | MT20   | 5.0 | 8.0 | 2.50 | 2.75 |
| O       | BS-t     | MT20   | 5.0 | 8.0 |      |      |
| P       | BMWW-t   | MT20   | 5.0 | 8.0 |      |      |
| Q       | BMWWWW-t | MT20   | 5.0 | 8.0 |      |      |
| R       | BS-t     | MT20   | 5.0 | 8.0 |      |      |
| S       | BMWW-t   | MT20   | 5.0 | 8.0 | 2.50 | 2.50 |
| U       | BMV1-p   | MT20   | 3.0 | 8.0 |      |      |

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

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

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

| BEARINGS | FACTORED GROSS REACTION | MAXIMUM FACTORED GROSS REACTION | INPUT BRG | REQD BRG |
|----------|-------------------------|---------------------------------|-----------|----------|
| JT       | VERT                    | DOWN                            | IN-SX     | IN-SX    |
| U        | 2204                    | 0                               | 0         | 5-8      |
| L        | 2204                    | 0                               | 0         | 5-8      |

#### UNFACTORED REACTIONS

| 1ST LCASE | MAX/MIN. COMPONENT REACTIONS |      |      |           |      |      |      |
|-----------|------------------------------|------|------|-----------|------|------|------|
| JT        | COMBINED                     | SNOW | LIVE | PERM.LIVE | WIND | DEAD | SOIL |
| U         | 1556                         | 1035 | 0    | 0         | 0    | 521  | 0    |
| L         | 1556                         | 1035 | 0    | 0         | 0    | 521  | 0    |

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

#### BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 2.75 FT.  
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

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

#### 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    | 0/41    | -91.8                     | -91.8                     | 0.13 (1)                  | T-C   | -357/0  | 0.13 (1)                  |                           |
| B-C    | -2158/0 | -91.8                     | -91.8                     | 0.38 (1)                  | M-I   | -355/0  | 0.13 (1)                  |                           |
| C-D    | -3312/0 | -91.8                     | -91.8                     | 0.78 (1)                  | B-T   | 0/1720  | 0.39 (1)                  |                           |
| D-E    | -4077/0 | -91.8                     | -91.8                     | 0.91 (1)                  | M-J   | 0/1720  | 0.39 (1)                  |                           |
| E-F    | -4077/0 | -91.8                     | -91.8                     | 0.75 (1)                  | N-I   | 0/2125  | 0.48 (1)                  |                           |
| F-G    | -4077/0 | -91.8                     | -91.8                     | 0.75 (1)                  | C-S   | 0/2128  | 0.48 (1)                  |                           |
| G-H    | -4085/0 | -91.8                     | -91.8                     | 0.91 (1)                  | N-H   | -1224/0 | 0.44 (1)                  |                           |
| H-I    | -3310/0 | -91.8                     | -91.8                     | 0.77 (1)                  | S-D   | -1218/0 | 0.44 (1)                  |                           |
| I-J    | -2158/0 | -91.8                     | -91.8                     | 0.38 (1)                  | P-H   | 0/997   | 0.22 (1)                  |                           |
| J-K    | 0/41    | -91.8                     | -91.8                     | 0.13 (1)                  | D-Q   | 0/985   | 0.22 (1)                  |                           |
| U-B    | -2178/0 | 0.0                       | 0.0                       | 0.15 (1)                  | P-E   | -515/0  | 0.18 (1)                  |                           |
| L-J    | -2179/0 | 0.0                       | 0.0                       | 0.15 (1)                  | Q-E   | -517/0  | 0.19 (1)                  |                           |
|        |         |                           |                           |                           | C-G   | -10/0   | 0.01 (1)                  |                           |
| U-T    | 0/0     | -18.5                     | -18.5                     | 0.06 (4)                  |       |         |                           |                           |
| T-S    | 0/1645  | -18.5                     | -18.5                     | 0.23 (1)                  |       |         |                           |                           |
| S-R    | 0/3313  | -18.5                     | -18.5                     | 0.45 (1)                  |       |         |                           |                           |
| R-Q    | 0/3313  | -18.5                     | -18.5                     | 0.45 (1)                  |       |         |                           |                           |
| Q-P    | 0/4085  | -18.5                     | -18.5                     | 0.54 (1)                  |       |         |                           |                           |
| P-O    | 0/3311  | -18.5                     | -18.5                     | 0.44 (1)                  |       |         |                           |                           |
| O-N    | 0/3311  | -18.5                     | -18.5                     | 0.44 (1)                  |       |         |                           |                           |
| N-M    | 0/1646  | -18.5                     | -18.5                     | 0.24 (1)                  |       |         |                           |                           |
| M-L    | 0/0     | -18.5                     | -18.5                     | 0.06 (4)                  |       |         |                           |                           |

TOTAL WEIGHT = 2 X 178 = 357 lb

#### DESIGN CRITERIA

##### SPECIFIED LOADS:

TOP CH. LL = 25.6 PSF  
DL = 6.0 PSF  
BOT CH. LL = 0.0 PSF  
DL = 7.0 PSF  
TOTAL LOAD = 39.0 PSF

SPACING = 24.0 IN/C

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

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

THIS DESIGN COMPLIES WITH:

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

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

ALLOWABLE DEFL.(LL) = L/360 (1.26")  
CALCULATED VERT. DEFL.(LL) = L/999 (0.24")  
ALLOWABLE DEFL.(TL) = L/360 (1.26")  
CALCULATED VERT. DEFL.(TL) = L/995 (0.45")

CSI: TC=0.91/1.00 (D-E-1), BC=0.54/1.00 (P-Q-1), WB=0.48/1.00 (C-S-1), SS=0.25/1.00 (C-D-1)

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

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE HEELS OFF

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

NAIL VALUES  
PLATE GRIP(DRY) SHEAR SECTION  
(PSI) (PLI)  
MAX MIN MAX MIN MAX MIN  
MT20 650 371 1747 768 1987 1873

PLATE PLACEMENT TOL = 0.250 inches

PLATE ROTATION TOL = 5.0 Deg.

JSI GRIP = 0.90 (N) (INPUT = 0.90)  
JSI METAL = 0.64 (R) (INPUT = 1.00)

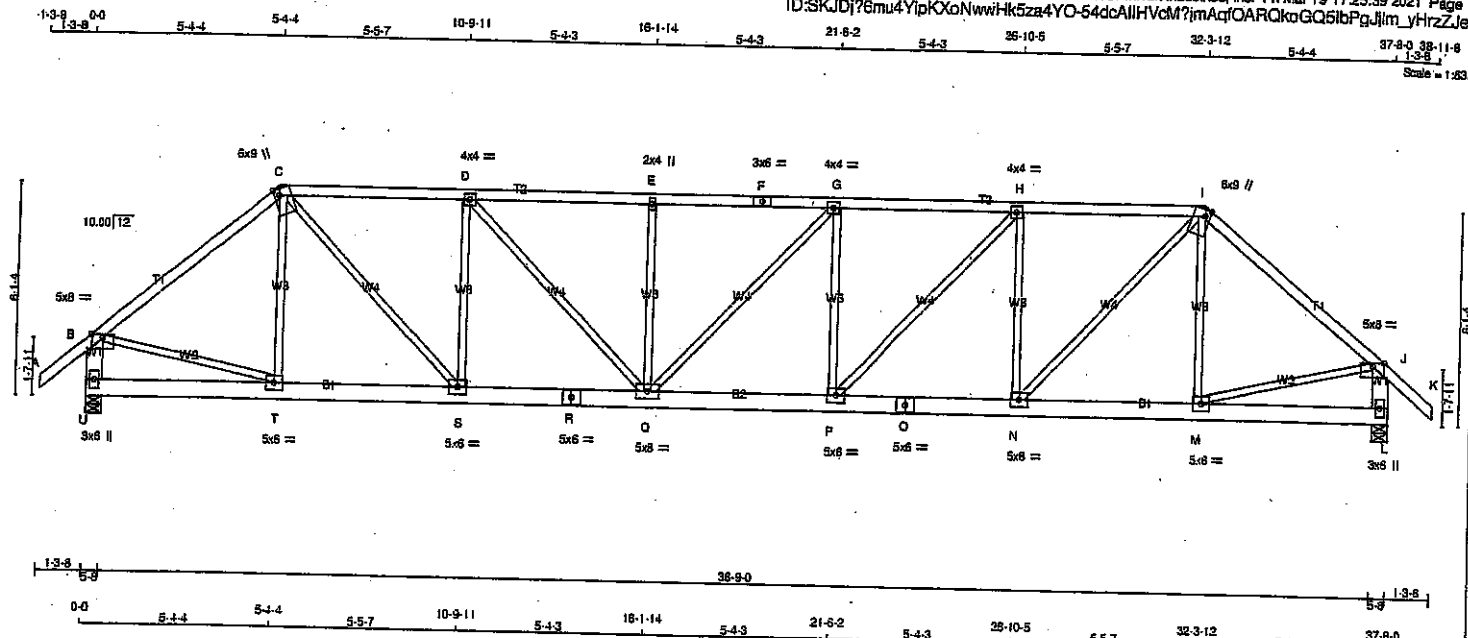


Structural component only  
DWG# T-2108013

|                           |                         |                      |                 |                                     |          |
|---------------------------|-------------------------|----------------------|-----------------|-------------------------------------|----------|
| JOB NAME<br><b>417375</b> | TRUSS NAME<br><b>T3</b> | QUANTITY<br><b>2</b> | PLY<br><b>1</b> | JOB DESC.<br><b>GREENPARK HOMES</b> | DRWG NO. |
|---------------------------|-------------------------|----------------------|-----------------|-------------------------------------|----------|

Tamarack Roof Truss, Burlington

Version 8.420 S Jan 21 2021 Mitak Industries, Inc. Fri Mar 19 17:25:39 2021 Page 1  
ID:SKJDI76mu4YipKXoNwwHk5za4YO-54dcAlIHVdM?imAqOARQkoGQ5ibPgJlm\_yHrzZJe



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

DRY: SEASONED LUMBER.

#### PLATES (table is in inches)

| JT            | TYPE    | PLATES | W   | LEN | Y         | X |
|---------------|---------|--------|-----|-----|-----------|---|
| B             | TMWV-p  | MT20   | 5.0 | 8.0 | Edge      |   |
| C             | TTWW+m  | MT20   | 6.0 | 9.0 | Edge 1.75 |   |
| D, G, H       |         |        |     |     |           |   |
| D             | TMWV-t  | MT20   | 4.0 | 4.0 |           |   |
| E             | TMWV-w  | MT20   | 2.0 | 4.0 |           |   |
| F             | TS-t    | MT20   | 3.0 | 6.0 |           |   |
| I             | TTWW+m  | MT20   | 6.0 | 9.0 | Edge 1.75 |   |
| J             | TMWV-p  | MT20   | 5.0 | 8.0 | Edge      |   |
| L             | BMV1+p  | MT20   | 3.0 | 6.0 |           |   |
| M, N, P, S, T |         |        |     |     |           |   |
| M             | BMWV-t  | MT20   | 5.0 | 6.0 |           |   |
| O             | BS-t    | MT20   | 5.0 | 6.0 |           |   |
| Q             | BMWVW-t | MT20   | 5.0 | 8.0 |           |   |
| R             | BS-t    | MT20   | 5.0 | 6.0 |           |   |
| U             | BMV1+p  | MT20   | 3.0 | 6.0 |           |   |

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

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

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

| JT | FACTORED GROSS REACTION |      | MAXIMUM FACTORED GROSS REACTION |      | INPUT BRG | REQD BRG |
|----|-------------------------|------|---------------------------------|------|-----------|----------|
|    | VERT                    | HORZ | DOWN                            | HORZ |           |          |
| U  | 2204                    | 0    | 2204                            | 0    | 5-8       | 5-8      |
| L  | 2204                    | 0    | 2204                            | 0    | 5-8       | 5-8      |

#### UNFACTORED REACTIONS

| JT | 1ST CASE |      | MAX/MIN COMPONENT REACTIONS |           |      |      |      |
|----|----------|------|-----------------------------|-----------|------|------|------|
|    | COMBINED | SNOW | LIVE                        | PERM.LIVE | WIND | DEAD | SOIL |
| U  | 1556     | 1035 | 0                           | 0         | 0    | 521  | 0    |
| L  | 1556     | 1035 | 0                           | 0         | 0    | 521  | 0    |

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

#### BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.27 FT.  
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.  
ALL PITCH BREAKS AND PERIMETER CORNER JOINTS MUST BE Laterally RESTRAINED.

#### LOADING

TOTAL LOAD CASES: (4)

| CHORDS |                           |                           |               | WEBS  |                           |                    |  |
|--------|---------------------------|---------------------------|---------------|-------|---------------------------|--------------------|--|
| MEMB.  | MAX. FACTORED FORCE (LBS) | FACTORED VERT. LOAD (PLF) | MAX. CSI (LC) | MEMB. | MAX. FACTORED FORCE (LBS) | MAX. CSI (LC)      |  |
| FR-TO  |                           | FROM TO                   | LENGTH        | FR-TO |                           |                    |  |
| A-B    | 0 : 41                    | -91.8 -91.8               | 0.13 (1)      | 10.00 | T-C                       | -261 / 0 0.14 (1)  |  |
| B-C    | -2200 / 0                 | -91.8 -91.8               | 0.67 (1)      | 3.94  | M-I                       | -259 / 0 0.14 (1)  |  |
| C-D    | -2843 / 0                 | -91.8 -91.8               | 0.58 (1)      | 3.59  | B-T                       | 0 / 1728 0.39 (1)  |  |
| D-E    | -3373 / 0                 | -91.8 -91.8               | 0.65 (1)      | 3.27  | M-J                       | 0 / 1728 0.39 (1)  |  |
| E-F    | -3373 / 0                 | -91.8 -91.8               | 0.53 (1)      | 3.42  | N-I                       | 0 / 1679 0.38 (1)  |  |
| F-G    | -3373 / 0                 | -91.8 -91.8               | 0.53 (1)      | 3.42  | C-S                       | 0 / 1682 0.38 (1)  |  |
| G-H    | -3380 / 0                 | -91.8 -91.8               | 0.65 (1)      | 3.27  | N-H                       | -1123 / 0 0.61 (1) |  |
| H-I    | -2842 / 0                 | -91.8 -91.8               | 0.58 (1)      | 3.59  | S-D                       | -1117 / 0 0.61 (1) |  |
| I-J    | -2200 / 0                 | -91.8 -91.8               | 0.67 (1)      | 3.93  | P-H                       | 0 / 788 0.18 (1)   |  |
| J-K    | 0 : 41                    | -91.8 -91.8               | 0.13 (1)      | 10.00 | D-Q                       | 0 / 777 0.17 (1)   |  |
| U-B    | -2182 / 0                 | 0.0 0.0                   | 0.15 (1)      | 6.93  | P-G                       | -472 / 0 0.26 (1)  |  |
| L-J    | -2183 / 0                 | 0.0 0.0                   | 0.15 (1)      | 6.93  | Q-E                       | -474 / 0 0.26 (1)  |  |
|        |                           |                           |               |       | Q-G                       | -9 / 0 0.01 (1)    |  |
| U-T    | 0 / 0                     | -18.5 -18.5               | 0.06 (4)      | 10.00 |                           |                    |  |
| T-S    | 0 / 1682                  | -18.5 -18.5               | 0.23 (1)      | 10.00 |                           |                    |  |
| S-R    | 0 / 2844                  | -18.5 -18.5               | 0.38 (1)      | 10.00 |                           |                    |  |
| R-Q    | 0 / 2844                  | -18.5 -18.5               | 0.38 (1)      | 10.00 |                           |                    |  |
| Q-P    | 0 / 3380                  | -18.5 -18.5               | 0.45 (1)      | 10.00 |                           |                    |  |
| P-O    | 0 / 2842                  | -18.5 -18.5               | 0.38 (1)      | 10.00 |                           |                    |  |
| O-N    | 0 / 2842                  | -18.5 -18.5               | 0.38 (1)      | 10.00 |                           |                    |  |
| N-M    | 0 / 1682                  | -18.5 -18.5               | 0.23 (1)      | 10.00 |                           |                    |  |
| M-L    | 0 / 0                     | -18.5 -18.5               | 0.06 (4)      | 10.00 |                           |                    |  |

TOTAL WEIGHT = 2 X 187 = 375 lb

#### DESIGN CRITERIA

##### SPECIFIED LOADS:

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

SPACING = 24.0 IN/C

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

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

THIS DESIGN COMPLIES WITH:

- PART 9 OF NBC 2015, ABC 2019
- PART 9 OF NBC 2012 (2019 AMENDMENT)
- CSA 086-14
- TPIG 2014

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

ALLOWABLE DEFL.(LL) = L/360 (1.26")  
CALCULATED VERT. DEFL.(LL) = L/999 (0.18")  
ALLOWABLE DEFL.(TL) = L/360 (1.26")  
CALCULATED VERT. DEFL.(TL) = L/999 (0.33")

CSI: TC=0.67/1.00 (H-I), BC=0.45/1.00 (P-Q), WB=0.61/1.00 (H-N), SS=0.23/1.00 (C-D)

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

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE HEELS OFF

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

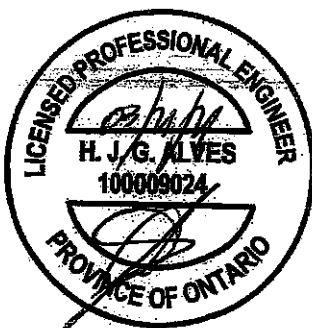
#### NAIL VALUES

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

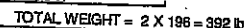
PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP = 0.82 (F) (INPUT = 0.90)  
JSI METAL = 0.55 (F) (INPUT = 1.00)



Structural component only  
DWG# T-2108014



DRY: SEASONED LUMBER.

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

A circular professional engineer seal for the Province of Ontario. The outer ring contains the text "LICENSED PROFESSIONAL ENGINEER" at the top and "PROVINCE OF ONTARIO" at the bottom. The center of the seal features a stylized "E" shape. Inside the top curve of the "E" is a handwritten signature. Between the two horizontal bars of the "E" is the name "H. J. G. ALVES" and the license number "100009024". Inside the bottom curve of the "E" is another handwritten signature.

## BEARINGS

### UNFACTORED REACTIONS

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

## BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.29 FT.  
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED  
ALL PITCH BREAKS AND PERIMETER CORNER JOINTS MUST BE Laterally RESTRAINED.

## LOADING

**TOTAL LOAD CASES: (4)**

## DESIGN CRITERIA

**SPECIFIED LOADS:**

**SPECIFIED LOADS:**

SPACING = 24.0 IN. C/C

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

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

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

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

ALLOWABLE DEFL (LL) =  $L/360$  (1.28")  
 CALCULATED VERT. DEFL (LL) =  $L/999$  (0.14")  
 ALLOWABLE DEFL (TL) =  $L/360$  (1.28")  
 CALCULATED VERT. DEFL (TL) =  $L/999$  (0.26")

CSI: TC=0.79/1.00 (F-H:1), BC=0.36/1.00 (Q-S:1),  
WB=0.77/1.00 (H-O:1), SS=0.27/1.00 (H-I:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

### AUTOSOLVE HEELS OFF

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

## NAIL VALUES

|      | 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= 0.86 (C) (INPUT = 0.90 )  
JSI METAL= 0.55 (C) (INPUT = 1.00 )

**Tamarack Roof Truss, Burlington**



**DRY: SEASONED LUMBER.**

BRACING

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

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

ALLOWABLE DEFL(LL) =  $L/360$  (1.26")  
 CALCULATED VERT. DEFL(LL) =  $L/999$  (0.12")  
 ALLOWABLE DEFL(TL) =  $L/360$  (1.26")  
 CALCULATED VERT. DEFL(TL) =  $L/999$  (0.22")

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

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

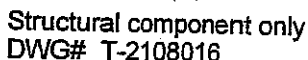
PLATE PLACEMENT TOL = 0.250 inches

PLATE ROTATION TOL = 5.0 Deg.

ISI GRIP= 0.89 (D) (INPUT = 0.90 )  
ISI METAL= 0.56 (C) (INPUT = 1.00 )

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

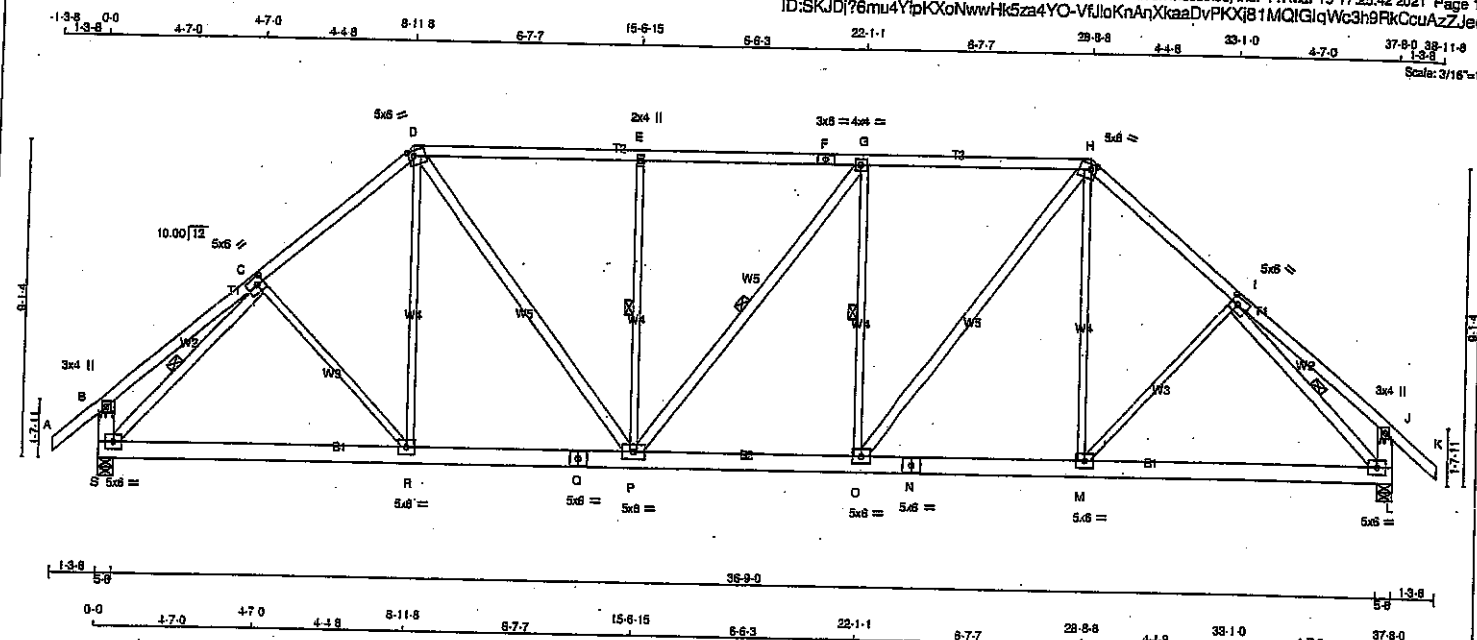
|     |          |       |       |          |       |
|-----|----------|-------|-------|----------|-------|
| U-T | 0 / 1597 | -18.5 | -18.5 | 0.26 (t) | 10.00 |
| T-S | 0 / 1872 | -18.5 | -18.5 | 0.26 (t) | 10.00 |
| S-R | 0 / 2356 | -18.5 | -18.5 | 0.32 (t) | 10.00 |
| R-Q | 0 / 2356 | -18.5 | -18.5 | 0.32 (t) | 10.00 |
| Q-P | 0 / 2356 | -18.5 | -18.5 | 0.32 (t) | 10.00 |
| P-O | 0 / 2356 | -18.5 | -18.5 | 0.32 (t) | 10.00 |
| O-N | 0 / 1672 | -18.5 | -18.5 | 0.26 (t) | 10.00 |
| N-M | 0 / 1597 | -18.5 | -18.5 | 0.26 (t) | 10.00 |



| JOB NAME | TRUSS NAME | QUANTITY | PLY | JOB DESC.       | DRWG NO. |
|----------|------------|----------|-----|-----------------|----------|
| 417375   | T6         | 8        | 1   | GREENPARK HOMES |          |

Tamarack Roof Truss, Burlington

Version 8.420 S Jan 21 2021 MTEK Industries, Inc. Fri Mar 19 17:25:42 2021 Page 1  
ID:SKJD76mu4YtpKXoNwwHk5za4YO-VfJloKnAnXkaaDvPKQJ81MQIGIqWc3h9RkCcuAZZJed



| CHORDS | SIZE | LUMBER   |
|--------|------|----------|
| A - D  | 2x4  | DRY No.2 |
| D - F  | 2x4  | DRY No.2 |
| F - H  | 2x4  | DRY No.2 |
| H - K  | 2x4  | DRY No.2 |
| S - B  | 2x6  | DRY No.2 |
| L - J  | 2x6  | DRY No.2 |
| S - Q  | 2x6  | DRY No.2 |
| Q - N  | 2x6  | DRY No.2 |
| N - L  | 2x6  | DRY No.2 |

| ALL WEBS EXCEPT | SIZE | LUMBER   |
|-----------------|------|----------|
| D - P           | 2x4  | DRY No.2 |
| P - G           | 2x4  | DRY No.2 |
| O - H           | 2x4  | DRY No.2 |
| S - C           | 2x4  | DRY No.2 |
| I - L           | 2x4  | DRY No.2 |

DRY: SEASONED LUMBER.

| JT TYPE   | PLATES | W   | LEN | Y    | X    |
|-----------|--------|-----|-----|------|------|
| B TMV+p   | MT20   | 3.0 | 4.0 |      |      |
| C TMWW-t  | MT20   | 5.0 | 6.0 | 2.50 | 2.50 |
| D TTWW-m  | MT20   | 5.0 | 6.0 | 1.75 | 2.00 |
| E TMW-w   | MT20   | 2.0 | 4.0 |      |      |
| F TS-t    | MT20   | 3.0 | 6.0 |      |      |
| G TMWW-t  | MT20   | 4.0 | 4.0 |      |      |
| H TTWW-m  | MT20   | 5.0 | 6.0 | 1.75 | 2.00 |
| I TMWW-t  | MT20   | 5.0 | 6.0 | 2.50 | 2.50 |
| J TMV+p   | MT20   | 3.0 | 4.0 |      |      |
| L BMVW1-t | MT20   | 5.0 | 6.0 |      |      |
| M O, R    |        |     |     |      |      |
| M BMVW-t  | MT20   | 5.0 | 6.0 |      |      |
| N BS-t    | MT20   | 5.0 | 6.0 |      |      |
| P BMVW-t  | MT20   | 5.0 | 6.0 |      |      |
| Q BS-t    | MT20   | 5.0 | 6.0 |      |      |
| S BMVW1-t | MT20   | 5.0 | 6.0 |      |      |

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

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

| FACTORED GROSS REACTION | MAXIMUM FACTORED GROSS REACTION | INPUT BRG | REQD BRG |
|-------------------------|---------------------------------|-----------|----------|
| JT VERT                 | 2204                            | 0         | 5-8      |
| L                       | 2204                            | 0         | 5-8      |
| S                       | 2204                            | 0         | 5-8      |

#### UNFACTORED REACTIONS

| 1ST CASE    | MAX. MIN. COMPONENT REACTIONS | PERM. LIVE | WIND | DEAD | SOIL  |
|-------------|-------------------------------|------------|------|------|-------|
| JT COMBINED | 1556                          | 1035.0     | 0.0  | 0.0  | 521.0 |
| L           | 1556                          | 1035.0     | 0.0  | 0.0  | 521.0 |
| S           | 1556                          | 1035.0     | 0.0  | 0.0  | 521.0 |

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

#### BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.74 FT.  
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

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

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

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

#### LOADING

TOTAL LOAD CASES: (4)

| CHORDS |                           |                           |                           | WEBS  |                           |                           |  |
|--------|---------------------------|---------------------------|---------------------------|-------|---------------------------|---------------------------|--|
| MEMB.  | MAX. FACTORED FORCE (LBS) | FACTORED VERT. LOAD (PLF) | MAX. UNBRACED LENGTH (FT) | MEMB. | MAX. FACTORED FORCE (LBS) | MAX. UNBRACED LENGTH (FT) |  |
| FR-TO  |                           |                           |                           | FR-TO |                           |                           |  |
| A-B    | 0.41                      | -91.8                     | -91.8 0.13 (1)            | R-D   | 0.205                     | 0.06 (4)                  |  |
| B-C    | 0.31                      | -91.8                     | -91.8 0.29 (1)            | D-P   | 0.952                     | 0.15 (1)                  |  |
| C-D    | -2171.0                   | -91.8                     | -91.8 0.42 (1)            | P-E   | -652.0                    | 0.34 (1)                  |  |
| D-E    | -2219.0                   | -91.8                     | -91.8 0.75 (1)            | E-F   | -6.0                      | 0.00 (1)                  |  |
| E-F    | -2219.0                   | -91.8                     | -91.8 0.75 (1)            | F-G   | -650.0                    | 0.34 (1)                  |  |
| F-G    | -2219.0                   | -91.8                     | -91.8 0.75 (1)            | G-H   | 0.859                     | 0.15 (1)                  |  |
| G-H    | -2223.0                   | -91.8                     | -91.8 0.76 (1)            | H-I   | 0.200                     | 0.06 (4)                  |  |
| H-I    | -2170.0                   | -91.8                     | -91.8 0.42 (1)            | I-J   | -43.42                    | 0.04 (1)                  |  |
| I-J    | 0.31                      | -91.8                     | -91.8 0.29 (1)            | J-K   | -2492.0                   | 0.51 (1)                  |  |
| J-K    | 0.41                      | -91.8                     | -91.8 0.13 (1)            | K-L   | -43.42                    | 0.04 (1)                  |  |
| S-B    | -283.0                    | 0.0                       | 0.0 0.02 (1)              | L-J   | -2491.0                   | 0.51 (1)                  |  |
| L-J    | -283.0                    | 0.0                       | 0.0 0.02 (1)              |       |                           |                           |  |

|     |        |       |                |       |
|-----|--------|-------|----------------|-------|
| S-R | 0.1670 | -18.5 | -18.5 0.29 (1) | 10.00 |
| R-Q | 0.1643 | -18.5 | -18.5 0.28 (1) | 10.00 |
| Q-P | 0.1643 | -18.5 | -18.5 0.28 (1) | 10.00 |
| P-O | 0.2223 | -18.5 | -18.5 0.31 (1) | 10.00 |
| O-N | 0.1642 | -18.5 | -18.5 0.27 (1) | 10.00 |
| N-M | 0.1642 | -18.5 | -18.5 0.27 (1) | 10.00 |
| M-L | 0.1669 | -18.5 | -18.5 0.29 (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 = 38.0 PSF

SPACING = 24.0 IN./C

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

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

THIS DESIGN COMPLIES WITH:

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

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

ALLOWABLE DEFL. (LL) = L/360 (1.26")  
CALCULATED VERT. DEFL. (LL) = L/999 (0.09")  
ALLOWABLE DEFL. (TL) = L/360 (1.26")  
CALCULATED VERT. DEFL. (TL) = L/999 (0.18")

CSI: TC=0.78/1.00 (G-H:1), BC=0.31/1.00 (O-P:1), WB=0.51/1.00 (C-S:1), SS=0.28/1.00 (G-H:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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 = 0.86 (C) (INPUT = 0.90)  
JSI METAL = 0.56 (C) (INPUT = 1.00)

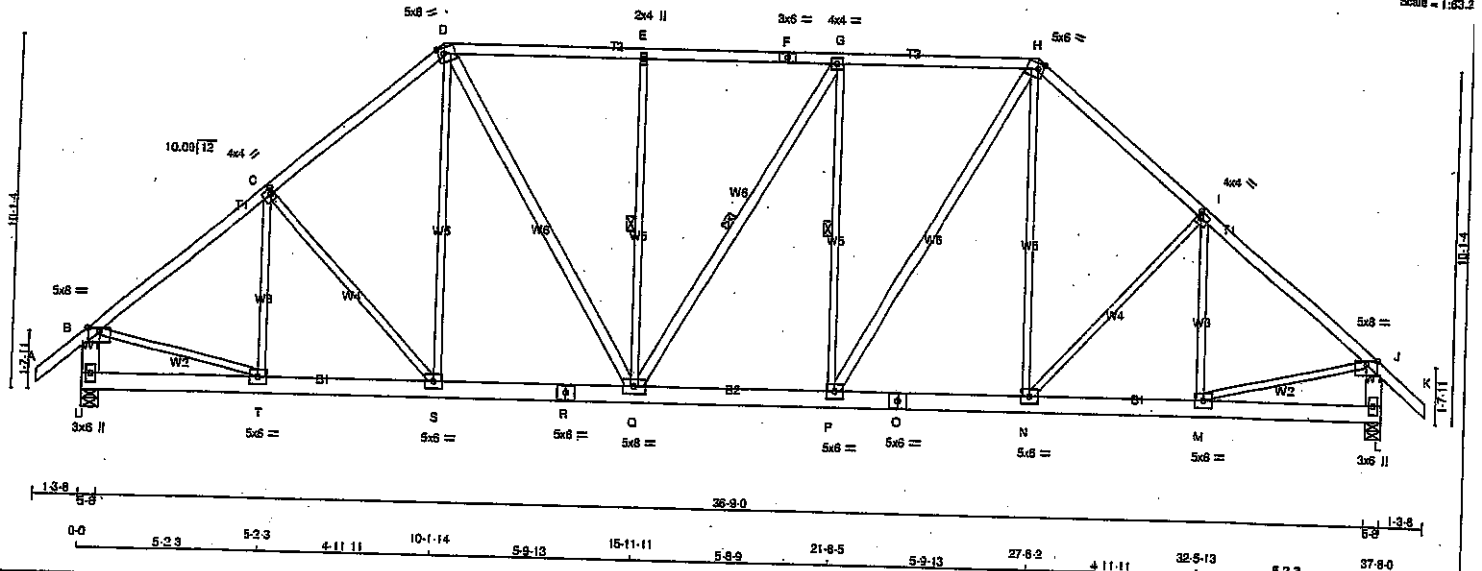


Structural component only  
DWG# T-2108017

JOB NAME: 417375 TRUSS NAME: T7 QUANTITY: 2 PLY: 1 JOB DESC: GREENPARK HOMES TRUSS DESC: Tamarack Roof Truss, Burlington DRWG NO.:

Version 8.420 S Jan 21 2021 MITek Industries, Inc. Fri Mar 19 17:25:42 2021 Page 1  
ID:SKJDJ76mu4YipKXoNwwHk5za4YO-VfJicKnAnXkaaDvPKXj81MQqclq8c4P9RkGcuAZJed

Scale = 1:63.2



**LUMBER**

N. L. G. A. RULES

| CHORDS          | SIZE | LUMBER | DESCR. |
|-----------------|------|--------|--------|
| A - D           | 2x4  | DRY    | No.2   |
| D - F           | 2x4  | DRY    | No.2   |
| F - H           | 2x4  | DRY    | No.2   |
| H - K           | 2x4  | DRY    | No.2   |
| U - B           | 2x6  | DRY    | No.2   |
| L - J           | 2x6  | DRY    | No.2   |
| U - R           | 2x6  | DRY    | No.2   |
| R - O           | 2x6  | DRY    | No.2   |
| O - L           | 2x6  | DRY    | No.2   |
| ALL WEBS EXCEPT | 2x3  | DRY    | No.2   |
| D - Q           | 2x4  | DRY    | No.2   |
| Q - G           | 2x4  | DRY    | No.2   |
| P - H           | 2x4  | DRY    | No.2   |

DRY: SEASONED LUMBER.

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

**BEARINGS**

| JT | FACTORED GROSS REACTION |      | MAXIMUM FACTORED GROSS REACTION |      | INPUT BRG IN-SX | REORD BRG IN-SX |
|----|-------------------------|------|---------------------------------|------|-----------------|-----------------|
|    | VERT                    | HORZ | DOWN                            | HORZ |                 |                 |
| U  | 2204                    | 0    | 2204                            | 0    | 5-8             | 5-8             |
| L  | 2204                    | 0    | 2204                            | 0    | 5-8             | 5-8             |

**UNFACTORED REACTIONS**

| JT | 1ST CASE COMBINED SNOW |          | MAX. MIN. COMPONENT REACTIONS |       | PERM. LIVE | WIND  | DEAD    | SOIL  |
|----|------------------------|----------|-------------------------------|-------|------------|-------|---------|-------|
|    | VERT                   | HORZ     | LIVE                          | WIND  |            |       |         |       |
| U  | 1556                   | 1035 / 0 | 0 / 0                         | 0 / 0 | 0 / 0      | 0 / 0 | 521 / 0 | 0 / 0 |
| L  | 1556                   | 1035 / 0 | 0 / 0                         | 0 / 0 | 0 / 0      | 0 / 0 | 521 / 0 | 0 / 0 |

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

**BRACING**

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.24 FT.  
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

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

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

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

**LOADING**

TOTAL LOAD CASES: (4)

| CHORDS |                           |                           |               | WEBS                 |       |                           |               |
|--------|---------------------------|---------------------------|---------------|----------------------|-------|---------------------------|---------------|
| MEMB.  | MAX. FACTORED FORCE (LBS) | FACTORED VERT. LOAD (PLF) | MAX. CSI (LC) | MAX. UNBRACED LENGTH | MEMB. | MAX. FACTORED FORCE (LBS) | MAX. CSI (LC) |
| FR-TO  |                           | FROM TO                   |               |                      | FR-TO |                           |               |
| A-B    | 0 / 41                    | -91.8 -91.8               | 0.13 (1)      | 10.00                | T-C   | -325 / 0                  | 0.17 (1)      |
| B-C    | -2210 / 0                 | -91.8 -91.8               | 0.40 (1)      | 4.24                 | C-S   | -199 / 0                  | 0.22 (1)      |
| C-D    | -2111 / 0                 | -91.8 -91.8               | 0.38 (1)      | 4.33                 | S-D   | 0 / 265                   | 0.06 (1)      |
| D-E    | -1995 / 0                 | -91.8 -91.8               | 0.41 (1)      | 4.37                 | D-Q   | 0 / 783                   | 0.13 (1)      |
| E-F    | -1995 / 0                 | -91.8 -91.8               | 0.38 (1)      | 4.41                 | Q-E   | -571 / 0                  | 0.39 (1)      |
| F-G    | -1995 / 0                 | -91.8 -91.8               | 0.38 (1)      | 4.41                 | Q-G   | -5 / 0                    | 0.01 (1)      |
| G-H    | -1999 / 0                 | -91.8 -91.8               | 0.42 (1)      | 4.36                 | P-G   | -568 / 0                  | 0.39 (1)      |
| H-I    | -2110 / 0                 | -91.8 -91.8               | 0.38 (1)      | 4.33                 | P-H   | 0 / 793                   | 0.13 (1)      |
| I-J    | -2211 / 0                 | -91.8 -91.8               | 0.40 (1)      | 4.24                 | N-H   | 0 / 257                   | 0.06 (1)      |
| J-K    | 0 / 41                    | -91.8 -91.8               | 0.13 (1)      | 10.00                | N-I   | -201 / 0                  | 0.22 (1)      |
| U-B    | -2154 / 0                 | 0.0 0.0                   | 0.15 (1)      | 6.94                 | M-I   | -323 / 0                  | 0.17 (1)      |
| L-J    | -2154 / 0                 | 0.0 0.0                   | 0.15 (1)      | 6.94                 | B-T   | 0 / 1772                  | 0.40 (1)      |
|        |                           |                           |               |                      | M-J   | 0 / 1772                  | 0.40 (1)      |
| U-T    | 0 / 0                     | -18.5 -18.5               | 0.05 (4)      | 10.00                |       |                           |               |
| T-S    | 0 / 1725                  | -18.5 -18.5               | 0.24 (1)      | 10.00                |       |                           |               |
| S-R    | 0 / 1593                  | -18.5 -18.5               | 0.22 (1)      | 10.00                |       |                           |               |
| R-Q    | 0 / 1593                  | -18.5 -18.5               | 0.22 (1)      | 10.00                |       |                           |               |
| Q-P    | 0 / 1999                  | -18.5 -18.5               | 0.27 (1)      | 10.00                |       |                           |               |
| P-O    | 0 / 1592                  | -18.5 -18.5               | 0.22 (1)      | 10.00                |       |                           |               |
| O-N    | 0 / 1592                  | -18.5 -18.5               | 0.22 (1)      | 10.00                |       |                           |               |
| N-M    | 0 / 1725                  | -18.5 -18.5               | 0.23 (1)      | 10.00                |       |                           |               |
| M-L    | 0 / 0                     | -18.5 -18.5               | 0.05 (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 2012, ABC 2019
- PART 9 OF CBC 2012 (2019 AMENDMENT)
- CSA 086-14
- TPIC 2014

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

ALLOWABLE DEFL.(LL) = L/360 (1.26")  
CALCULATED VERT. DEFL.(LL) = L/999 (0.09")  
ALLOWABLE DEFL.(TL) = L/360 (1.26")  
CALCULATED VERT. DEFL.(TL) = L/999 (0.16")

CSI: TC=0.42/1.00 (G-H:1), BC=0.27/1.00 (P-Q:1), WB=0.40/1.00 (J-M:1), SS=0.25/1.00 (G-H:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE HEELS OFF

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

**NAIL VALUES**

| PLATE | GRIP(DRY) | SHEAR | SECTION |
|-------|-----------|-------|---------|
| (PSI) | (PL)      | (PL)  | (PL)    |
| 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= 0.87 (H) (INPUT = 0.90)  
JSI METAL= 0.40 (D) (INPUT = 1.00)

**PLATES (table is in inches)**

| JT            | TYPE   | PLATES | W   | LEN | Y    | X    |
|---------------|--------|--------|-----|-----|------|------|
| B             | TMVW-p | MT20   | 5.0 | 8.0 | Edge |      |
| C             | TMVW-t | MT20   | 4.0 | 4.0 | 2.00 | 1.25 |
| D             | TTVW-m | MT20   | 5.0 | 6.0 | 2.00 | 2.00 |
| E             | TMVW-w | MT20   | 2.0 | 4.0 |      |      |
| F             | TS-t   | MT20   | 3.0 | 6.0 |      |      |
| G             | TMVW-t | MT20   | 4.0 | 4.0 |      |      |
| H             | TTVW-m | MT20   | 5.0 | 6.0 | 2.00 | 2.00 |
| I             | TMVW-t | MT20   | 4.0 | 4.0 | 2.00 | 1.25 |
| J             | TMVW-p | MT20   | 5.0 | 8.0 | Edge |      |
| L             | BMV1+p | MT20   | 3.0 | 6.0 |      |      |
| M, N, P, S, T |        |        |     |     |      |      |
| M             | BMVW-t | MT20   | 5.0 | 6.0 |      |      |
| O             | BS-t   | MT20   | 5.0 | 6.0 |      |      |
| Q             | BMVW-t | MT20   | 5.0 | 8.0 |      |      |
| R             | BS-t   | MT20   | 5.0 | 6.0 |      |      |
| U             | BMV1+p | MT20   | 3.0 | 6.0 |      |      |

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

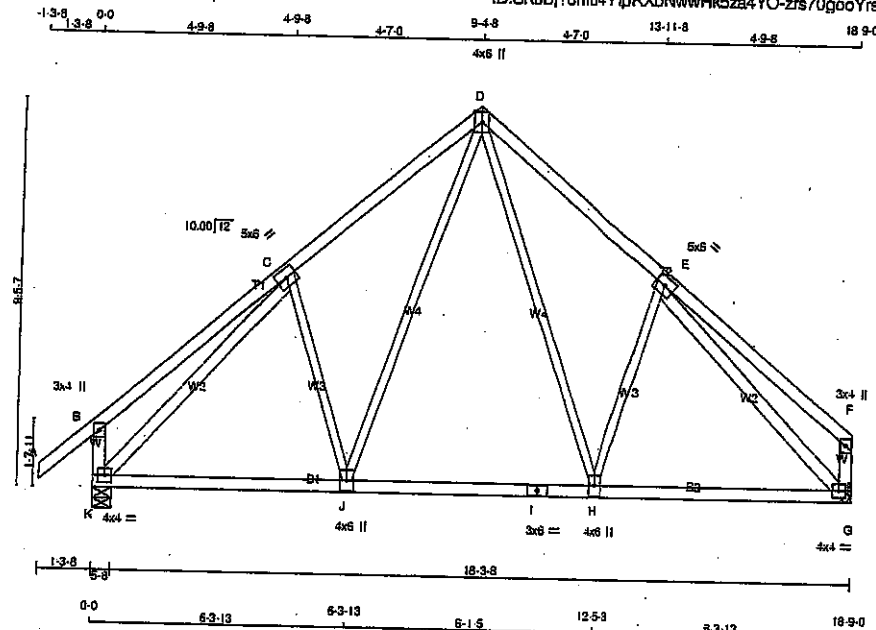
NOTES: (1)  
1) Lateral braces to be a minimum of 2x4 SPF #2.



Structural component only  
DWG# T-2108018

|                                 |                         |                      |                 |                                     |          |
|---------------------------------|-------------------------|----------------------|-----------------|-------------------------------------|----------|
| JOB NAME<br><b>417375</b>       | TRUSS NAME<br><b>T8</b> | QUANTITY<br><b>3</b> | PLY<br><b>1</b> | JOB DESC.<br><b>GREENPARK HOMES</b> | DRWG NO. |
| Tamarack Roof Truss, Burlington |                         |                      |                 |                                     |          |

Version 8.420 S Jan 21 2021 Mitek Industries, Inc. Fri Mar 19 17:25:43 2021 Page 1  
ID:SKJD\76mu4YipKXoNwwHkSza4YO-zrs7GooYrsRBNUbuEENaayOfiA3LSoJgOy9QczZJec



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

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

DRY-SEASONED LUMBER.

| PLATES (table is in inches) | W    | LEN | Y   | X    |
|-----------------------------|------|-----|-----|------|
| JT TYPE                     |      |     |     |      |
| B TMV-p                     | MT20 | 3.0 | 4.0 |      |
| C TMVW-t                    | MT20 | 5.0 | 6.0 |      |
| D TTWV-p                    | MT20 | 4.0 | 6.0 | Edge |
| E TMVW-t                    | MT20 | 5.0 | 6.0 |      |
| F TMV-p                     | MT20 | 3.0 | 4.0 |      |
| G BMVW-t                    | MT20 | 4.0 | 4.0 |      |
| H BMVW-t                    | MT20 | 4.0 | 6.0 |      |
| I BS-t                      | MT20 | 3.0 | 6.0 |      |
| J BMVW-t                    | MT20 | 4.0 | 6.0 |      |
| K BMVW-t                    | MT20 | 4.0 | 4.0 |      |

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

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

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

| BEARINGS | FACTORED       | MAXIMUM FACTORED | INPUT      | REQD  |
|----------|----------------|------------------|------------|-------|
|          | GROSS REACTION | GROSS REACTION   | BRG        | BRG   |
| JT       | VERT           | DOWN             | IN-SX      | IN-SX |
| K        | 1181           | 0                | 5-8        | 5-8   |
| G        | 1034           | 0                | MECHANICAL |       |

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

#### UNFACTORED REACTIONS

| 1ST LCASE | MAX/MIN  | COMPONENT REACTIONS |       |           |       |         |       |
|-----------|----------|---------------------|-------|-----------|-------|---------|-------|
| JT        | COMBINED | SNOW                | LIVE  | PERM.LIVE | WIND  | DEAD    | SOIL  |
| K         | 818      | 551 / 0             | 0 / 0 | 0 / 0     | 0 / 0 | 268 / 0 | 0 / 0 |
| G         | 731      | 480 / 0             | 0 / 0 | 0 / 0     | 0 / 0 | 251 / 0 | 0 / 0 |

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

#### BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 6.20 FT.  
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.  
ALL PITCH BREAKS AND PERIMETER CORNER JOINTS MUST BE Laterally RESTRAINED.

#### LOADING

TOTAL LOAD CASES: (4)

| CHORDS | MEMB.    | MAX. FACTORED FORCE (LBS) | FACTORED VERT. LOAD (PLF) | LC1      | MAX   | MAX. UNBRACED LENGTH | FR-TO     | MEMB.    | MAX. FACTORED FORCE (LBS) | CS1 (LC) |
|--------|----------|---------------------------|---------------------------|----------|-------|----------------------|-----------|----------|---------------------------|----------|
| A-B    | 0 / 41   | -91.8                     | -91.8                     | 0.13 (1) | 10.00 | D-H                  | 0 / 400   | 0.09 (1) |                           |          |
| B-C    | 0 / 33   | -91.8                     | -91.8                     | 0.33 (1) | 10.00 | H-E                  | -267 / 0  | 0.14 (1) |                           |          |
| C-D    | -887 / 0 | -91.8                     | -91.8                     | 0.27 (1) | 6.20  | J-D                  | 0 / 400   | 0.09 (1) |                           |          |
| D-E    | -887 / 0 | -91.8                     | -91.8                     | 0.27 (1) | 6.20  | C-J                  | -267 / 0  | 0.14 (1) |                           |          |
| E-F    | 0 / 33   | -91.8                     | -91.8                     | 0.33 (1) | 10.00 | K-C                  | -1109 / 0 | 0.71 (1) |                           |          |
| K-B    | -267 / 0 | 0.0                       | 0.0                       | 0.03 (1) | 7.81  | E-G                  | -1109 / 0 | 0.71 (1) |                           |          |
| G-F    | -160 / 0 | 0.0                       | 0.0                       | 0.02 (1) | 7.81  |                      |           |          |                           |          |
| K-J    | 0 / 740  | -18.5                     | -18.5                     | 0.22 (4) | 10.00 |                      |           |          |                           |          |
| J-I    | 0 / 529  | -18.5                     | -18.5                     | 0.21 (4) | 10.00 |                      |           |          |                           |          |
| I-H    | 0 / 529  | -18.5                     | -18.5                     | 0.21 (4) | 10.00 |                      |           |          |                           |          |
| H-G    | 0 / 740  | -18.5                     | -18.5                     | 0.22 (4) | 10.00 |                      |           |          |                           |          |

TOTAL WEIGHT = 3 X 93 = 279 lb

#### DESIGN CRITERIA

##### SPECIFIED LOADS:

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

SPACING = 24.0 IN. OC

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

##### THIS DESIGN COMPLIES WITH:

- PART 9 OF CBC 2015, ABC 2019  
- PART 9 OF CBC 2012 (2019 AMENDMENT)  
- CSA 086-14  
- TPIC 2014

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

ALLOWABLE DEFL.(LL) = L/360 (0.82")  
CALCULATED VERT. DEFL.(LL) = L/999 (0.02")  
ALLOWABLE DEFL.(TL) = L/360 (0.82")  
CALCULATED VERT. DEFL.(TL) = L/999 (0.06")

CS1: TC=0.33/1.00 (B-C:1), BC=0.22/1.00 (J-K:4), WB=0.71/1.00 (C-K:1), SS=0.16/1.00 (C-D:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE HEELS OFF

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

##### NAIL VALUES

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

PLATE PLACEMENT TOL = 0.250 inches

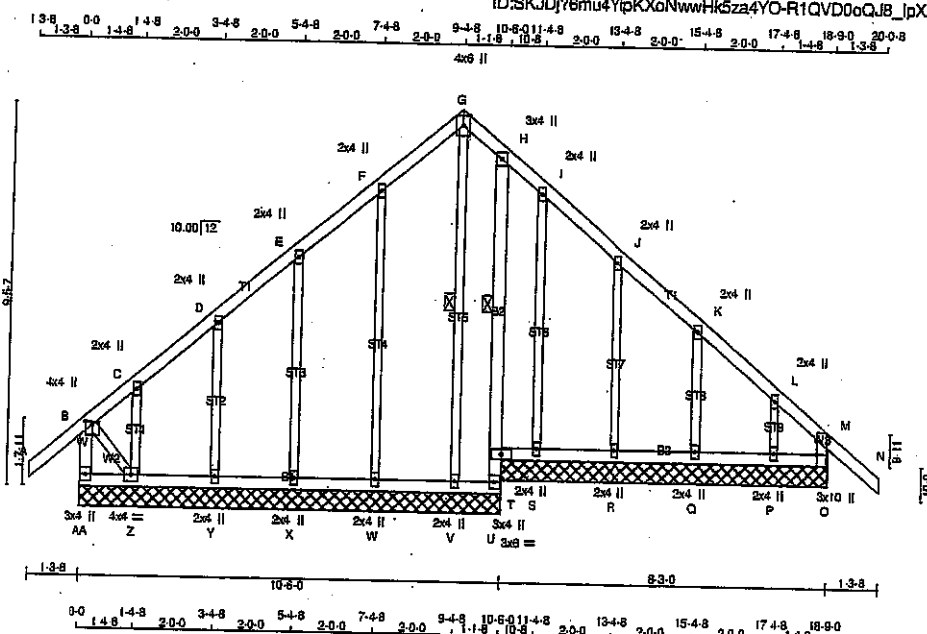
PLATE ROTATION TOL = 5.0 Deg.

JSI GRIP = 0.86 (K) (INPUT = 0.90)  
JSI METAL = 0.27 (C) (INPUT = 1.00)



Structural component only  
DWG# T-2108019

|                                 |                          |                      |                 |                                     |          |
|---------------------------------|--------------------------|----------------------|-----------------|-------------------------------------|----------|
| JOB NAME<br><b>417375</b>       | TRUSS NAME<br><b>T9G</b> | QUANTITY<br><b>1</b> | PLY<br><b>1</b> | JOB DESC.<br><b>GREENPARK HOMES</b> | DRWG NO. |
| Tamarack Roof Truss, Burlington |                          | TRUSS DESC.          |                 |                                     |          |



| LUMBER                          |        |      |        |
|---------------------------------|--------|------|--------|
| N. L. G. A. RULES               | CHORDS | SIZE | LUMBER |
| A - G                           | 2x4    | DRY  | No.2   |
| G - N                           | 2x4    | DRY  | No.2   |
| AA - B                          | 2x4    | DRY  | No.2   |
| O - M                           | 2x4    | DRY  | No.2   |
| AA - U                          | 2x4    | DRY  | No.2   |
| U - H                           | 2x4    | DRY  | No.2   |
| T - O                           | 2x4    | DRY  | No.2   |
| ALL WEBS EXCEPT                 | 2x3    | DRY  | No.2   |
| ALL GABLE WEBS                  | 2x3    | DRY  | No.2   |
| 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 | 4.0  | 1.00 2.00 |
| C, D, E, F, I, J, K, L      |        |     |      |           |
| C TMVW+w                    | MT20   | 2.0 | 4.0  |           |
| G TTVW+p                    | MT20   | 4.0 | 6.0  | Edge      |
| H TMV+p                     | MT20   | 3.0 | 4.0  |           |
| M                           |        |     |      |           |
| O                           |        |     |      |           |
| O TMBMV1+p                  | MT20   | 3.0 | 10.0 | Edge 0.25 |
| P, Q, R, S, V, W, X, Y      |        |     |      |           |
| P BMV1+w                    | MT20   | 2.0 | 4.0  |           |
| T BMV1-i                    | MT20   | 3.0 | 6.0  |           |
| U BMV1+p                    | MT20   | 3.0 | 4.0  |           |
| Z BMVW1-i                   | MT20   | 4.0 | 4.0  |           |
| AA 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

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 = 6.25 FT. OR RIGID CEILING DIRECTLY APPLIED.  
ALL PITCH BREAKS AND PERIMETER CORNER JOINTS MUST BE LATERALLY RESTRAINED.  
1 LATERAL BRACE(S) AT 1/2 LENGTH OF H-T, G-V.

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

#### LOADING

TOTAL LOAD CASES: (4)

| CHORDS |                           |                           |                           | WEBS  |                           |                           |                           |
|--------|---------------------------|---------------------------|---------------------------|-------|---------------------------|---------------------------|---------------------------|
| MEMB.  | MAX. FACTORED FORCE (LBS) | FACTORED VERT. LOAD (PLF) | MAX. UNBRACED LENGTH (FT) | MEMB. | MAX. FACTORED FORCE (LBS) | MAX. UNBRACED LENGTH (FT) | MAX. FACTORED FORCE (LBS) |
| FR-TO  |                           |                           |                           | FR-TO |                           |                           |                           |
| A-B    | 0/41                      | -91.8                     | -91.8 0.13 (1)            | V-G   | -136/0                    | 0.08 (1)                  |                           |
| B-C    | -36/0                     | -91.8                     | -91.8 0.12 (1)            | W-F   | -209/0                    | 0.24 (1)                  |                           |
| C-D    | 0/15                      | -91.8                     | -91.8 0.05 (1)            | X-E   | -173/0                    | 0.10 (1)                  |                           |
| D-E    | 0/10                      | -91.8                     | -91.8 0.05 (1)            | Y-D   | -196/0                    | 0.06 (1)                  |                           |
| E-F    | 0/19                      | -91.8                     | -91.8 0.08 (1)            | Z-C   | -75/0                     | 0.01 (1)                  |                           |
| F-G    | 0/8                       | -91.8                     | -91.8 0.05 (1)            | S-I   | -133/0                    | 0.11 (1)                  |                           |
| G-H    | 0/9                       | -91.8                     | -91.8 0.02 (1)            | R-J   | -184/0                    | 0.08 (1)                  |                           |
| H-I    | 0/19                      | -91.8                     | -91.8 0.03 (1)            | Q-K   | -195/0                    | 0.04 (1)                  |                           |
| I-J    | 0/14                      | -91.8                     | -91.8 0.04 (1)            | P-L   | -70/0                     | 0.01 (1)                  |                           |
| J-K    | 0/11                      | -91.8                     | -91.8 0.05 (1)            | B-Z   | -3/0                      | 0.00 (1)                  |                           |
| K-L    | 0/15                      | -91.8                     | -91.8 0.05 (1)            |       |                           |                           |                           |
| L-M    | -40/0                     | -91.8                     | -91.8 0.12 (1)            |       |                           |                           |                           |
| M-N    | 0/41                      | -91.8                     | -91.8 0.13 (1)            |       |                           |                           |                           |
| AA-B   | -243/0                    | 0.0                       | 0.0 0.03 (1)              |       |                           |                           |                           |
| CC-M   | -249/0                    | 0.0                       | 0.0 0.02 (1)              |       |                           |                           |                           |
| AA-Z   | 0/0                       | -18.5                     | -18.5 0.01 (4)            |       |                           |                           |                           |
| Z-Y    | -5/0                      | -18.5                     | -18.5 0.02 (4)            |       |                           |                           |                           |
| Y-X    | -10/0                     | -18.5                     | -18.5 0.02 (4)            |       |                           |                           |                           |
| X-W    | -12/0                     | -18.5                     | -18.5 0.02 (4)            |       |                           |                           |                           |
| W-V    | -15/0                     | -18.5                     | -18.5 0.02 (4)            |       |                           |                           |                           |
| V-U    | -15/0                     | -18.5                     | -18.5 0.01 (4)            |       |                           |                           |                           |
| U-T    | 0/0                       | 0.0                       | 0.0 0.02 (1)              |       |                           |                           |                           |
| T-H    | -110/0                    | 0.0                       | 0.0 0.02 (1)              |       |                           |                           |                           |
| T-S    | -15/0                     | -18.5                     | -18.5 0.01 (4)            |       |                           |                           |                           |
| S-R    | -13/0                     | -18.5                     | -18.5 0.02 (4)            |       |                           |                           |                           |
| R-Q    | -10/0                     | -18.5                     | -18.5 0.02 (4)            |       |                           |                           |                           |
| Q-P    | -4/0                      | -18.5                     | -18.5 0.01 (4)            |       |                           |                           |                           |
| P-O    | 0/0                       | -18.5                     | -18.5 0.01 (4)            |       |                           |                           |                           |

TOTAL WEIGHT = 101 lb

#### DESIGN CRITERIA

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

SPACING = 24.0 IN/C

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

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

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=0.13/1.00 (A-S:1), BC=0.02/1.00 (H-T:1), WB=0.24/1.00 (F-W:1), SS=0.08/1.00 (M-N: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 = 0.47 (Z) (INPUT = 0.90)  
JSI METAL = 0.11 (F) (INPUT = 1.00)



Structural component only  
DWG# T-2108020

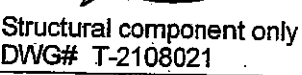


NOTES- (1)  
1) Lateral braces to be a minimum of 2X4 SPF #2

**TOTAL LOAD CASES: (4)**

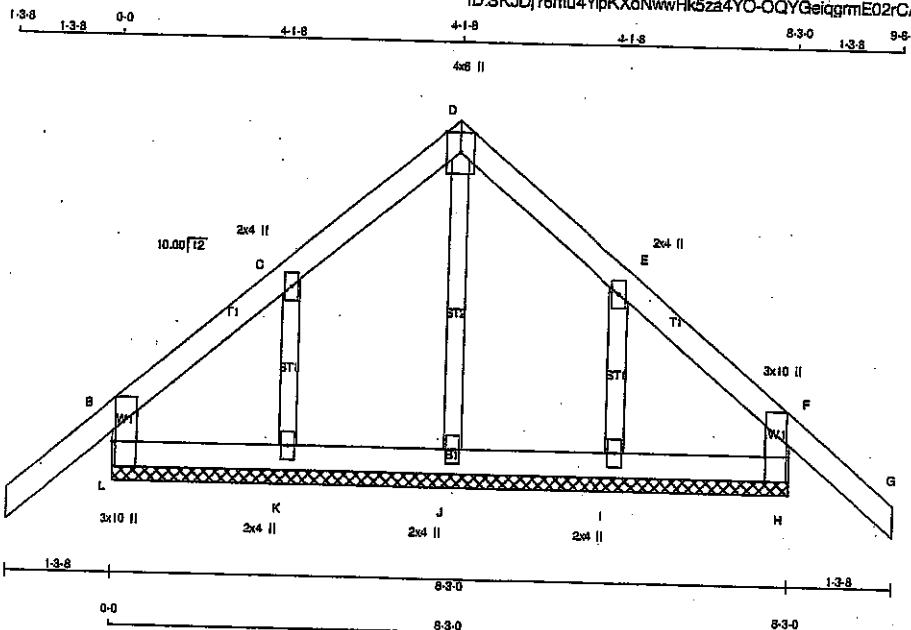
| CHORDS        |             |                  |                | WEBB               |       |             |              |
|---------------|-------------|------------------|----------------|--------------------|-------|-------------|--------------|
| MAX. FACTORED |             | FACTORED         |                | MAX. FACTORED      |       |             |              |
| MEMB.         | FORCE (LBS) | VERT. LOAD (PLF) | MAX CSI (LC)   | MAX. UNBRAC LENGTH | MEMB. | FORCE (LBS) | MAX CSI (LC) |
| FR-TO         |             | FROM TO          |                |                    | FR-TO |             |              |
| A-B           | 0 : 41      | -91.8            | -91.8 0.14 (1) | 10.00              | G-C   | 0 : 325     | 0.11 (4)     |
| B-C           | -549 : 0    | -91.8            | -91.8 0.31 (1) | 6.25               | B-G   | 0 : 425     | 0.11 (1)     |
| C-D           | -549 : 0    | -91.8            | -91.8 0.31 (1) | 6.25               | G-D   | 0 : 425     | 0.11 (1)     |
| D-E           | 0 : 41      | -91.8            | -91.8 0.14 (1) | 10.00              |       |             |              |
| H-B           | -716 : 0    | 0.0              | 0.0 0.08 (1)   | 7.81               |       |             |              |
| F-D           | -716 : 0    | 0.0              | 0.0 0.08 (1)   | 7.81               |       |             |              |
|               |             |                  |                |                    |       |             |              |
| H-G           | 0 : 0       | -18.5            | -18.5 0.28 (4) | 10.00              |       |             |              |
| G-F           | 0 : 0       | -185.2           | -79.0 0.32 (4) | 10.00              |       |             |              |

USI GRIP= 0.46 (H) (INPUT = 0.90 )  
USI METAL= 0.31 (F) (INPUT = 1.00 )



|                                 |                           |                      |                 |                                                                                    |          |
|---------------------------------|---------------------------|----------------------|-----------------|------------------------------------------------------------------------------------|----------|
| JOB NAME<br><b>417375</b>       | TRUSS NAME<br><b>T10G</b> | QUANTITY<br><b>1</b> | PLY<br><b>1</b> | JOB DESC.<br><b>GREENPARK HOMES</b>                                                | DRWG NO. |
| Tamarack Roof Truss, Burlington |                           | TRUSS DESC.          |                 | Version 8.420 5 Jan 21 2021 Mitek Industries, Inc. Fri Mar 19 17:25:46 2021 Page 1 |          |

ID:SKJDJ76mu4YpKXoNwwHk5za4YO-QQYGeigmeE02rCAZMo4CCab7vFY\_3IMMAp1xzZJeZ



Scale = 1/32" = 1'-0"

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

**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 (FT) |
| FR-TO  |                           | FROM TO                   |                        | FR-TO |                           |                        |                      |
| L-B    | -254 / 0                  | 0.0                       | 0.02 (1)               | J-D   | -141 / 0                  | 0.04 (1)               | 7.81                 |
| A-B    | 0 / 41                    | -91.8                     | -91.8 0.13 (1)         | K-C   | -181 / 0                  | 0.03 (1)               | 10.00                |
| B-C    | -52 / 0                   | -91.8                     | -91.8 0.04 (1)         | I-E   | -181 / 0                  | 0.03 (1)               | 6.25                 |
| C-D    | -41 / 0                   | -91.8                     | -91.8 0.05 (1)         |       |                           |                        | 6.25                 |
| D-E    | -41 / 0                   | -91.8                     | -91.8 0.05 (1)         |       |                           |                        | 6.25                 |
| E-F    | -52 / 0                   | -91.8                     | -91.8 0.04 (1)         |       |                           |                        | 6.25                 |
| F-G    | 0 / 41                    | -91.8                     | -91.8 0.13 (1)         |       |                           |                        | 10.00                |
| H-F    | -254 / 0                  | 0.0                       | 0.02 (1)               |       |                           |                        | 7.81                 |
| L-K    | 0 / 40                    | -18.5                     | -18.5 0.02 (4)         |       |                           |                        | 10.00                |
| K-J    | 0 / 32                    | -18.5                     | -18.5 0.02 (4)         |       |                           |                        | 10.00                |
| J-I    | 0 / 32                    | -18.5                     | -18.5 0.02 (4)         |       |                           |                        | 10.00                |
| I-H    | 0 / 40                    | -18.5                     | -18.5 0.02 (4)         |       |                           |                        | 10.00                |

| PLATES (table is in inches) |          |      |     |                |
|-----------------------------|----------|------|-----|----------------|
| JT TYPE                     | PLATES   | W    | LEN | Y X            |
| B, F, H, L                  |          |      |     |                |
| C                           | TMW+w    | MT20 | 2.0 | 4.0            |
| D                           | TTW+p    | MT20 | 4.0 | 6.0 Edge       |
| E                           | TMW+w    | MT20 | 2.0 | 4.0            |
| F                           | TMBMV1+p | MT20 | 3.0 | 10.0 Edge      |
| I, J, K                     |          |      |     |                |
| I                           | BMW1+w   | MT20 | 2.0 | 4.0            |
| L                           | TMBMV1+p | MT20 | 3.0 | 10.0 Edge 0.50 |

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

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

TOTAL WEIGHT = 33 lb

#### DESIGN CRITERIA

**SPECIFIED LOADS:**

TOP CH. LL = 25.6 PSF  
DL = 6.0 PSF

BOT CH. LL = 0.0 PSF  
DL = 7.4 PSF

TOTAL LOAD = 39.0 PSF

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

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

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

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

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

CSI: TC=0.13/1.00 (A-B:1), BC=0.02/1.00 (K-L:4), WB=0.04/1.00 (D-J:1), SS=0.08/1.00 (A-B:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

**NAIL VALUES**

| PLATE | GRIP (DRY) | SHEAR | SECTION            |
|-------|------------|-------|--------------------|
|       | (PS)       | (PL)  | (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=0.13 (C) (INPUT=0.90)  
JSI METAL=0.10 (L) (INPUT=1.00)

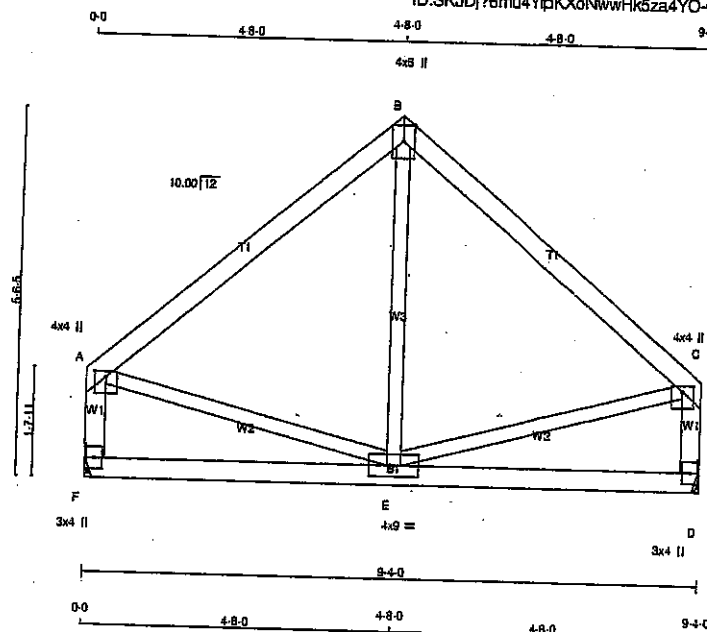


Structural component only  
DWG# T-2108022

Tamarack Roof Truss, Burlington

Version 8.420 S Jan 21 2021 Mitek Industries, Inc. Fri Mar 19 17:25:46 2021 Page 1  
ID:SKJDJ?6mu4YpKXoNwwHk5za4YO-QQYGeiqgmE02rCAZMo4CCaY5vETY\_ILIMMap1xzZJe

Scale = 1:33.



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

DRY: SEASONED LUMBER.

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

| CHORDS |                           |                           |                        | WEBS                 |       |                           |                        |
|--------|---------------------------|---------------------------|------------------------|----------------------|-------|---------------------------|------------------------|
| MEMB.  | MAX. FACTORED FORCE (LBS) | FACTORED VERT. LOAD (PLF) | MAX. FACTORED CSI (LC) | MAX. UNBRACED LENGTH | MEMB. | MAX. FACTORED FORCE (LBS) | MAX. FACTORED CSI (LC) |
| FR-TO  |                           | FROM TO                   |                        | FR-TO                |       |                           |                        |
| A-B    | -313 / 0                  | -91.8                     | -91.8 0.26 (1)         | 6.25                 | A-B   | -28 / 70                  | 0.02 (4)               |
| B-C    | -313 / 0                  | -91.8                     | -91.8 0.26 (1)         | 6.25                 | E-B   | 0 / 249                   | 0.06 (1)               |
| F-A    | -481 / 0                  | 0.0                       | 0.0 0.05 (1)           | 7.81                 | E-C   | 0 / 249                   | 0.06 (1)               |
| D-C    | -481 / 0                  | 0.0                       | 0.0 0.05 (1)           | 7.81                 |       |                           |                        |
| F-E    | 0 / 0                     | -18.5                     | -18.5 0.11 (4)         | 10.00                |       |                           |                        |
| E-D    | 0 / 0                     | -18.5                     | -18.5 0.11 (4)         | 10.00                |       |                           |                        |

JSI GRIP= 0.41 (C) (INPUT = 0.90 )  
JSI METAL= 0.11 (C) (INPUT = 1.00 )



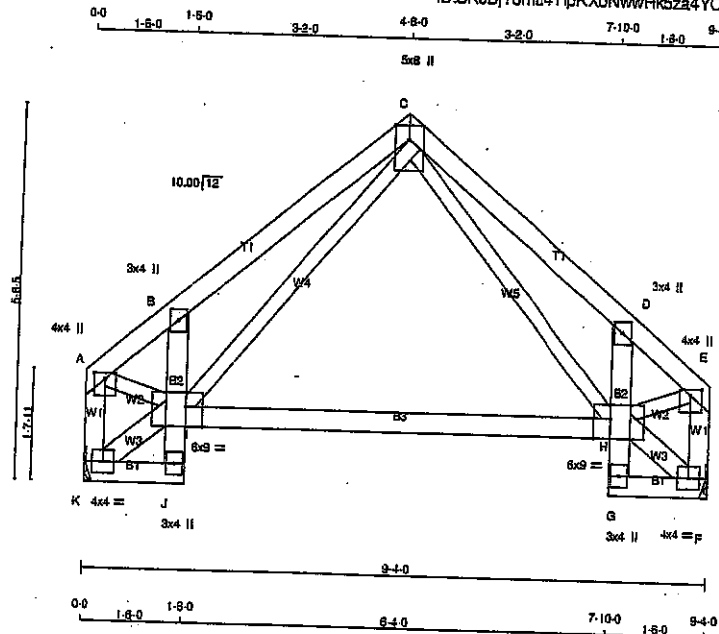
Structural component only  
DWG# T-2108023

|                           |                           |                      |                 |                                     |             |          |
|---------------------------|---------------------------|----------------------|-----------------|-------------------------------------|-------------|----------|
| JOB NAME<br><b>417375</b> | TRUSS NAME<br><b>T11S</b> | QUANTITY<br><b>2</b> | PLY<br><b>1</b> | JOB DESC.<br><b>GREENPARK HOMES</b> | TRUSS DESC. | DRWG NO. |
|---------------------------|---------------------------|----------------------|-----------------|-------------------------------------|-------------|----------|

Tamarack Roof Truss, Burlington

Version 8.420 S Jan 21 2021 MITek Industries, Inc. Fri Mar 19 17:25:47 2021 Page 1  
ID:SKJDj76mu4YpKXoNwwHk5za4YO-s0ber1rc3Mtg?nM74JkQ7msjYWHQlua0wNZNzZJeY

Scale = 1:32.4



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

DRY: SEASONED LUMBER.

| PLATES (table is in inches) |          |        |     |     |           |
|-----------------------------|----------|--------|-----|-----|-----------|
| JT                          | TYPE     | PLATES | W   | LEN | Y X       |
| A                           | TMVW+p   | MT20   | 4.0 | 4.0 | 1.00 2.00 |
| B                           | TMV+p    | MT20   | 3.0 | 4.0 |           |
| C                           | TTWV+p   | MT20   | 5.0 | 8.0 | Edge      |
| D                           | TMV+p    | MT20   | 3.0 | 4.0 |           |
| E                           | TMVW+p   | MT20   | 4.0 | 4.0 | 1.00 2.00 |
| F                           | BMVW1-t  | MT20   | 4.0 | 4.0 |           |
| G                           | BMV+p    | MT20   | 3.0 | 4.0 |           |
| H                           | BMVWWW-I | MT20   | 6.0 | 9.0 | Edge 3.00 |
| I                           | BMVWWW-I | MT20   | 6.0 | 9.0 | Edge 3.00 |
| J                           | BMV+p    | MT20   | 3.0 | 4.0 |           |
| K                           | BMVW1-t  | MT20   | 4.0 | 4.0 |           |

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

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

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

| JT | FACTORED GROSS REACTION |      | MAXIMUM FACTORED GROSS REACTION |      | INPUT BRG  | REQD BRG   |
|----|-------------------------|------|---------------------------------|------|------------|------------|
|    | VERT                    | HORZ | DOWN                            | HORZ |            |            |
| K  | 515                     | 0    | 515                             | 0    | IN-SX      | IN-SX      |
| F  | 515                     | 0    | 515                             | 0    | MECHANICAL | MECHANICAL |

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

### UNFACTORED REACTIONS

| 1ST CASE |          | MAX./MIN. COMPONENT REACTIONS |      |           |      |       |      |
|----------|----------|-------------------------------|------|-----------|------|-------|------|
| JT       | COMBINED | SNOW                          | LIVE | PERM.LIVE | WIND | DEAD  | SOIL |
| K        | 364      | 239.0                         | 0.0  | 0.0       | 0.0  | 125.0 | 0.0  |
| F        | 364      | 239.0                         | 0.0  | 0.0       | 0.0  | 125.0 | 0.0  |

### BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 6.25 FT.  
MAX. UNBRACED BOTTOM CHORD LENGTH = 7.81 FT OR RIGID CEILING DIRECTLY APPLIED.  
ALL PITCH BREAKS AND PERIMETER CORNER JOINTS MUST BE Laterally RESTRAINED.

### LOADING

TOTAL LOAD CASES: (4)

| CHORDS |                           |                           |                           | WEBS  |                           |                           |  |
|--------|---------------------------|---------------------------|---------------------------|-------|---------------------------|---------------------------|--|
| MEMB.  | MAX. FACTORED FORCE (LBS) | FACTORED VERT. LOAD (PLF) | MAX. UNBRACED LENGTH (LC) | MEMB. | MAX. FACTORED FORCE (LBS) | MAX. UNBRACED LENGTH (LC) |  |
| FR-TO  |                           | FROM                      |                           | FR-TO |                           |                           |  |
| A-B    | -509.0                    | -91.8                     | 0.09 (1)                  | C-H   | 0.266                     | 0.06 (1)                  |  |
| B-C    | -553.0                    | -91.8                     | 0.13 (1)                  | I-C   | 0.266                     | 0.06 (1)                  |  |
| C-D    | -553.0                    | -91.8                     | 0.13 (1)                  | K-I   | -19.0                     | 0.00 (1)                  |  |
| D-E    | -509.0                    | -91.8                     | 0.09 (1)                  | A-I   | 0.448                     | 0.10 (1)                  |  |
| K-A    | -492.0                    | 0.0                       | 0.05 (1)                  | H-F   | -19.0                     | 0.00 (1)                  |  |
| F-E    | -492.0                    | 0.0                       | 0.05 (1)                  | H-E   | 0.448                     | 0.10 (1)                  |  |
|        |                           |                           |                           |       |                           |                           |  |
| K-J    | 0.16                      | -18.5                     | 0.01 (4)                  | 10.00 |                           |                           |  |
| J-I    | 0.14                      | 0.0                       | 0.02 (1)                  | 10.00 |                           |                           |  |
| I-B    | -295.0                    | 0.0                       | 0.01 (1)                  | 7.81  |                           |                           |  |
| I-H    | 0.252                     | -18.5                     | 0.25 (4)                  | 10.00 |                           |                           |  |
| G-H    | 0.14                      | 0.0                       | 0.02 (1)                  | 10.00 |                           |                           |  |
| H-D    | -295.0                    | 0.0                       | 0.01 (1)                  | 7.81  |                           |                           |  |
| G-F    | 0.16                      | -18.5                     | 0.01 (4)                  | 10.00 |                           |                           |  |

TOTAL WEIGHT = 2 X 46 = 91 lb

### DESIGN CRITERIA

#### SPECIFIED LOADS:

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

#### SPACING = 24.0 IN./C

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

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

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

ALLOWABLE DEFL.(LL) = L/360 (0.31")  
CALCULATED VERT. DEFL.(LL) = L/999 (0.01")  
ALLOWABLE DEFL.(TL) = L/360 (0.31")  
CALCULATED VERT. DEFL.(TL) = L/999 (0.10")

CSI: TC=0.13/1.00 (B-C:1), SC=0.25/1.00 (H-I:4), WB=0.10/1.00 (A-I:1), SS=0.11/1.00 (B-C:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE HEELS OFF

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

#### NAIL VALUES

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

PLATE PLACEMENT TOL = 0.250 inches

PLATE ROTATION TOL = 5.0 Deg.

JSI GRIP = 0.49 (E) (INPUT = 0.90)  
JSI METAL = 0.14 (A) (INPUT = 1.00)

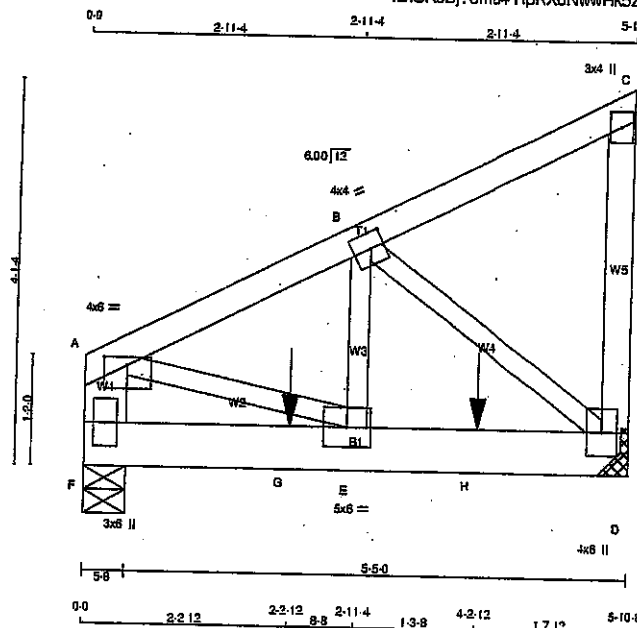


Structural component only  
DWG# T-2108024

|                                 |                          |                      |                 |                                     |          |
|---------------------------------|--------------------------|----------------------|-----------------|-------------------------------------|----------|
| JOB NAME<br><b>417375</b>       | TRUSS NAME<br><b>T12</b> | QUANTITY<br><b>1</b> | PLY<br><b>2</b> | JOB DESC.<br><b>GREENPARK HOMES</b> | DRWG NO. |
| Tamarack Roof Truss, Burlington |                          | TRUSS DESC.          |                 |                                     |          |

Version 8.420 S Jan 21 2021 MTEK Industries, Inc. Fri Mar 19 17:25:48 2021 Page 1  
ID:SKJDJ?6mu4YipKXoNwwHk5za4YO-Kpg03NswNNUk8MYhnnqYHdgygitF0r62pgiw5qzZJe)

Scale = 1/28.1



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

DRY: SEASONED LUMBER.

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

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

NAILS TO BE DRIVEN FROM ONE SIDE ONLY.

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

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

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

PLATES (table is in inches)

| JT TYPE | PLATES | W    | LEN | Y   | X         |
|---------|--------|------|-----|-----|-----------|
| A       | TMVW-p | MT20 | 4.0 | 6.0 | 1.00 3.00 |
| B       | TMVW-t | MT20 | 4.0 | 4.0 | 2.00 1.75 |
| C       | TMV-p  | MT20 | 3.0 | 4.0 |           |

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

|    | FACTORED GROSS REACTION | MAXIMUM FACTORED GROSS REACTION | INPUT BRG | REQD BRG |
|----|-------------------------|---------------------------------|-----------|----------|
| JT | VERT                    | HORZ                            | DOWN      | UPLIFT   |
| D  | 1440                    | 0                               | 1440      | 0        |
| F  | 1238                    | 0                               | 1238      | 0        |

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

#### UNFACTORED REACTIONS

| JT | 1ST LOASE COMBINED | MAX. MIN. SNOW | MAX. MIN. LIVE | PERM. LIVE | WIND | DEAD  | SOIL |
|----|--------------------|----------------|----------------|------------|------|-------|------|
| D  | 1016               | 678.0          | 0.0            | 0.0        | 0.0  | 339.0 | 0.0  |
| F  | 874                | 582.0          | 0.0            | 0.0        | 0.0  | 292.0 | 0.0  |

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

#### BRACING

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

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

#### LOADING

TOTAL LOAD CASES: (4)

| CHORDS | MEMB.   | MAX. FACTORED FORCE (LBS) | FACTORED VERT. LOAD (PLF) | MAX. FACTORED LC1 MAX (LBS) | MAX. FACTORED LC1 MAX (LBS) | WEBS  | MEMB.   | MAX. FACTORED FORCE (LBS) | MAX. FACTORED LC1 MAX (LBS) |
|--------|---------|---------------------------|---------------------------|-----------------------------|-----------------------------|-------|---------|---------------------------|-----------------------------|
| FR-TO  |         |                           |                           |                             |                             | FR-TO |         |                           |                             |
| A-B    | -1421.0 | -91.8                     | -91.8                     | 0.06 (1)                    | 6.25                        | E-B   | 0       | 1302                      | 0.18 (1)                    |
| B-C    | -10.0   | -91.8                     | -91.8                     | 0.05 (1)                    | 6.25                        | B-D   | -1811.0 | 0.19 (1)                  |                             |
| D-C    | -111.0  | 0.0                       | 0.0                       | 0.01 (1)                    | 7.81                        | A-E   | 0       | 1324                      | 0.18 (1)                    |
| F-A    | -1089.0 | 0.0                       | 0.0                       | 0.04 (1)                    | 7.81                        |       |         |                           |                             |
| F-G    | 0.0     | -18.5                     | -18.5                     | 0.13 (1)                    | 10.00                       |       |         |                           |                             |
| G-E    | 0.0     | -18.5                     | -18.5                     | 0.13 (1)                    | 10.00                       |       |         |                           |                             |
| E-H    | 0/1281  | -18.5                     | -18.5                     | 0.29 (1)                    | 10.00                       |       |         |                           |                             |
| H-D    | 0/1281  | -18.5                     | -18.5                     | 0.29 (1)                    | 10.00                       |       |         |                           |                             |

#### SPECIFIED CONCENTRATED LOADS (LBS)

| JT | LOC.   | LC1  | MAX- | MAX+ | FACE | DIR. | TYPE  | HEEL | CONN. |
|----|--------|------|------|------|------|------|-------|------|-------|
| G  | 2-2-12 | -716 | -716 |      | BACK | VERT | TOTAL |      | C1    |
| H  | 4-2-12 | -716 | -716 |      | BACK | VERT | TOTAL |      | C1    |

#### CONNECTION REQUIREMENTS

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

TOTAL WEIGHT = 2 X 28 = 58 lb

#### DESIGN CRITERIA

##### SPECIFIED LOADS:

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

SPACING = 24.0 IN. C/C

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

THIS DESIGN COMPLIES WITH:

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

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

ALLOWABLE DEFL. (LL) = L/360 (0.20")  
CALCULATED VERT. DEFL. (LL) = L/999 (0.01")  
ALLOWABLE DEFL. (TL) = L/360 (0.20")  
CALCULATED VERT. DEFL. (TL) = L/999 (0.02")

CSI: TC=0.08/1.00 (A-B:1), BC=0.29/1.00 (D-E:1), WB=0.19/1.00 (B-D:1), SS=0.31/1.00 (E-F:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE RIGHT HEEL ONLY

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

#### NAIL VALUES

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

PLATE PLACEMENT TOL = 0.250 inches

PLATE ROTATION TOL = 5.0 Deg.

JSI GRIP= 0.85 (B) (INPUT = 0.90)  
JSI METAL= 0.29 (D) (INPUT = 1.00)



Structural component only  
DWG# T-2108025

|                                 |                          |                      |                 |                                                                                                                                                                 |             |          |
|---------------------------------|--------------------------|----------------------|-----------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|----------|
| JOB NAME<br><b>417375</b>       | TRUSS NAME<br><b>T12</b> | QUANTITY<br><b>1</b> | PLY<br><b>2</b> | JOB DESC.<br><b>GREENPARK HOMES</b>                                                                                                                             | TRUSS DESC. | DRWG NO. |
| Tamarack Roof Truss, Burlington |                          |                      |                 | Version 8.420 S Jan 21 2021 MiTek Industries, Inc. Fri Mar 19 17:25:48 2021 Page 1<br>ID:SKJDI?6mv4YipKXoNwwHk5za4YO-Kop03NswNNUKi8MYhngYHdqvgitF0r82pafw5qzZJe |             |          |

**PLATES** (table is in inches)

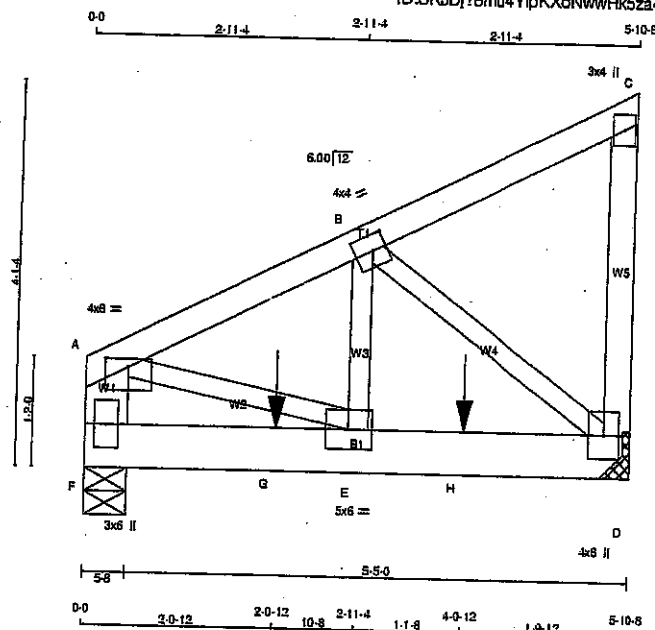
| JT | TYPE    | PLATES | W   | LEN | Y | X |
|----|---------|--------|-----|-----|---|---|
| D  | BM/W1+p | MT20   | 4.0 | 6.0 |   |   |
| E  | BM/W1-t | MT20   | 5.0 | 6.0 |   |   |
| F  | BM/V1+p | MT20   | 3.0 | 6.0 |   |   |

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



Structural component only  
 DWG# T-2108025 712

|                                 |                           |                                                                                                                                                                |                 |                                     |          |
|---------------------------------|---------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|-------------------------------------|----------|
| JOB NAME<br><b>417375</b>       | TRUSS NAME<br><b>T12Z</b> | QUANTITY<br><b>2</b>                                                                                                                                           | PLY<br><b>2</b> | JOB DESC.<br><b>GREENPARK HOMES</b> | DRWG NO. |
| Tamarack Roof Truss, Burlington |                           | Version 8.420 S Jan 21 2021 MTek Industries, Inc. Fri Mar 19 17:25:49 2021 Page 1<br>ID:SKJDj76mu4YipKXoNwwHk5za4YO-o?EOQjsZ8hcbvixlEVLnqrC7L7EIKbB2KPTeGzZJew |                 |                                     |          |



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

DRY: SEASONED LUMBER.

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

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

NAILS TO BE DRIVEN FROM ONE SIDE ONLY.

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

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

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

PLATES (table is in inches)

| JT TYPE | PLATES | W    | LEN | Y   | X         |
|---------|--------|------|-----|-----|-----------|
| A       | TMVW-p | MT20 | 4.0 | 6.0 | 1.00 3.00 |
| B       | TMVW-t | MT20 | 4.0 | 4.0 | 2.00 1.75 |
| C       | TMV-p  | MT20 | 3.0 | 4.0 |           |

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

| JT | FACTORED GROSS REACTION |      | MAXIMUM FACTORED GROSS REACTION |      | INPUT BRG |       | RECORD BRG |       |
|----|-------------------------|------|---------------------------------|------|-----------|-------|------------|-------|
|    | VERT                    | HORZ | DOWN                            | HORZ | UPLIFT    | IN-SX | IN-SX      | IN-SX |
| D  | 841                     | 0    | 841                             | 0    | 0         | 5-8   | 5-8        |       |
| F  | 799                     | 0    | 799                             | 0    | 0         | 5-8   | 5-8        |       |

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

#### UNFACTORED REACTIONS

| JT | 1ST CASE |         | MAX. MIN. COMPONENT REACTIONS |            | WIND  | DEAD    | SOIL  |
|----|----------|---------|-------------------------------|------------|-------|---------|-------|
|    | COMBINED | SNOW    | LIVE                          | PERM. LIVE |       |         |       |
| D  | 593      | 399 / 0 | 0 / 0                         | 0 / 0      | 0 / 0 | 194 / 0 | 0 / 0 |
| F  | 563      | 379 / 0 | 0 / 0                         | 0 / 0      | 0 / 0 | 184 / 0 | 0 / 0 |

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

#### BRACING

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

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

#### LOADING

TOTAL LOAD CASES: (4)

| MEMB. | CHORDS           |                  | FACTORED       |                    | WEBS              |               | FACTORED         |               |
|-------|------------------|------------------|----------------|--------------------|-------------------|---------------|------------------|---------------|
|       | MAX. FORCE (LBS) | VERT. LOAD (PLF) | MAX. CS1 (LC)  | MAX. UNBRAC LENGTH | MEMB. FORCE (LBS) | MAX. CS1 (LC) | MAX. FORCE (LBS) | MAX. CS1 (LC) |
| FR-TO |                  |                  |                |                    |                   |               |                  |               |
| A-B   | -835 / 0         | -91.8            | -91.8 0.08 (1) | 8.25               | E-B               | 0.633         | 0.08 (1)         |               |
| B-C   | -12 / 0          | -91.8            | -91.8 0.08 (1) | 6.25               | B-D               | -954 / 0      | 0.11 (1)         |               |
| D-C   | -107 / 0         | 0.0              | 0.0 0.01 (1)   | 7.81               | A-E               | 0.784         | 0.10 (1)         |               |
| F-A   | -686 / 0         | 0.0              | 0.0 0.02 (1)   | 7.81               |                   |               |                  |               |
| F-G   | 0 / 0            | -18.5            | -18.5 0.07 (1) | 10.00              |                   |               |                  |               |
| G-E   | 0 / 0            | -18.5            | -18.5 0.07 (1) | 10.00              |                   |               |                  |               |
| E-H   | 0 / 758          | -18.5            | -18.5 0.14 (1) | 10.00              |                   |               |                  |               |
| H-D   | 0 / 758          | -18.5            | -18.5 0.14 (1) | 10.00              |                   |               |                  |               |

#### SPECIFIED CONCENTRATED LOADS (LBS)

| JT | LOC.   | LC1  | MAX- | MAX+ | FACE  | DIR. | TYPE  | HEEL | CONN. |
|----|--------|------|------|------|-------|------|-------|------|-------|
| G  | 2-0-12 | -349 | -349 | -    | FRONT | VERT | TOTAL | -    | C1    |
| H  | 4-0-12 | -349 | -349 | -    | FRONT | VERT | TOTAL | -    | C1    |

#### CONNECTION REQUIREMENTS

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

TOTAL WEIGHT = 4 X 29 = 117 lb

#### DESIGN CRITERIA

##### SPECIFIED LOADS:

|                   |           |     |
|-------------------|-----------|-----|
| TOP CH.           | LL = 25.8 | PSF |
| DL = 6.0          | PSF       |     |
| BOT CH.           | LL = 0.0  | PSF |
| DL = 7.4          | PSF       |     |
| TOTAL LOAD = 39.0 | PSF       |     |

SPACING = 24.0 IN. CC

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

THIS DESIGN COMPLIES WITH:

- PART 9 OF CBC 2015, ABC 2019
- PART 9 OF CBC 2012 (2019 AMENDMENT)
- CSA 086-14
- TPIC 2014

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

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

CSI: TC=0.06/1.00 (A-S:1), BC=0.14/1.00 (D-E:1), WB=0.11/1.00 (B-D:1), SS=0.15/1.00 (E-F:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE RIGHT HEEL ONLY

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

#### NAIL VALUES

| PLATE | GRIP (DRY) | SHEAR | SECTION            |
|-------|------------|-------|--------------------|
| (PSI) | (PLI)      | (PLI) | (PLI)              |
| MT20  | 650        | 371   | 1747 789 1987 1873 |

PLATE PLACEMENT TOL = 0.250 inches

PLATE ROTATION TOL = 5.0 Deg.

JSI GRIP = 0.41 (B) (INPUT = 0.99)  
JSI METAL = 0.17 (D) (INPUT = 1.00)



Structural component only  
DWG# T-2108026 1/1

|                                 |                    |               |          |                              |          |
|---------------------------------|--------------------|---------------|----------|------------------------------|----------|
| JOB NAME<br>417375              | TRUSS NAME<br>T12Z | QUANTITY<br>2 | PLY<br>2 | JOB DESC.<br>GREENPARK HOMES | DRWG NO. |
| Tamarack Roof Truss, Burlington |                    |               |          | TRUSS DESC.                  |          |

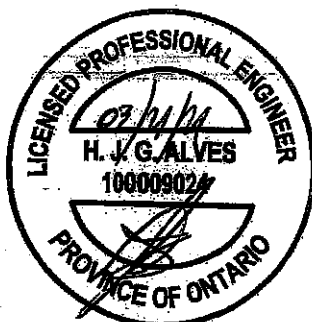
Version 8.420 S Jan 21 2021 MTEK Industries, Inc. Fri Mar 19 17:25:49 2021 Page 2  
ID:SKJDI76mu4YpKXoNwwHk5za4YO-o7EOGisZ8hcbvixiEVLnqrC7L7EiIKbB2KPTeGzZJeW

**PLATES (table is in inches)**

| JT | TYPE   | PLATES | W   | LEN | Y | X |
|----|--------|--------|-----|-----|---|---|
| D  | BMW1+p | MT20   | 4.0 | 6.0 |   |   |
| E  | BMW1-t | MT20   | 5.0 | 6.0 |   |   |
| F  | BMW1+p | MT20   | 3.0 | 6.0 |   |   |

**NOTES (1)**

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

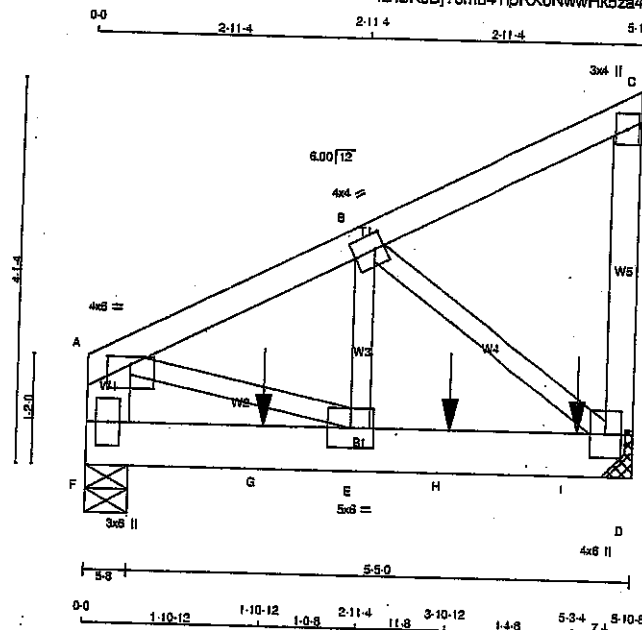


Structural component only  
DWG# T-2108026 *HL*

|                                 |                            |                      |                 |                                     |          |
|---------------------------------|----------------------------|----------------------|-----------------|-------------------------------------|----------|
| JOB NAME<br><b>417406</b>       | TRUSS NAME<br><b>T12Z2</b> | QUANTITY<br><b>1</b> | PLY<br><b>2</b> | JOB DESC.<br><b>GREENPARK HOMES</b> | DRWG NO. |
| Tamarack Roof Truss, Burlington |                            | TRUSS DESC.          |                 |                                     |          |

Version 8.420 S Jan 21 2021 Mitek Industries, Inc. Fri Mar 19 17:34:13 2021 Page 1  
ID:SKJDJ76mu4YipKXoNwwHk5za4YO-2zhw23ziSX84NITcmLzF74E8HAZrEONxkU8K2zZJW

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



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

DRY: SEASONED LUMBER.

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

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

NAILS TO BE DRIVEN FROM ONE SIDE ONLY.

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

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

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

PLATES (table is in inches)

| JT TYPE | PLATES | W    | LEN | Y   | X         |
|---------|--------|------|-----|-----|-----------|
| A       | TMVW-p | MT20 | 4.0 | 6.0 | 1.00 3.00 |
| B       | TMVW-t | MT20 | 4.0 | 4.0 | 2.00 1.25 |
| C       | TMV-p  | MT20 | 3.0 | 4.0 |           |

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

|    | FACTORED GROSS REACTION | MAXIMUM FACTORED GROSS REACTION | INPUT BRG | REQD BRG |
|----|-------------------------|---------------------------------|-----------|----------|
| JT | VERT                    | DOWN                            | UPLIFT    | IN-SX    |
| D  | 2978                    | 0                               | 2978      | 0        |
| F  | 1506                    | 0                               | 1506      | 0        |

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

#### UNFACTORED REACTIONS

| JT | 1ST LOASE COMBINED | SNOW | MAX. MIN. COMPONENT REACTIONS | LIVE | PERM. LIVE | WIND | DEAD | SOIL |
|----|--------------------|------|-------------------------------|------|------------|------|------|------|
| D  | 2102               | 1402 | 0                             | 0    | 0          | 0    | 700  | 0    |
| F  | 1063               | 709  | 0                             | 0    | 0          | 0    | 354  | 0    |

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

#### BRACING

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

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

#### LOADING

TOTAL LOAD CASES: (4)

| CHORDS | MEMB. | MAX. FACTORED FORCE (LBS) | FACTORED VERT. LOAD (PLF) | FACTORED LC1 MAX (LBS) | FACTORED MAX. UNBRACED LENGTH (FT) | WEBS  | MEMB. | MAX. FACTORED FORCE (LBS) | FACTORED MAX. UNBRACED LENGTH (FT) |
|--------|-------|---------------------------|---------------------------|------------------------|------------------------------------|-------|-------|---------------------------|------------------------------------|
| FR-TO  |       |                           |                           |                        |                                    | FR-TO |       |                           |                                    |
| A-B    | -1778 | 0                         | -91.8                     | -91.8                  | 0.06 (1)                           | 6.25  | E-B   | 0                         | 1709                               |
| B-C    | -9    | 0                         | -91.8                     | -91.8                  | 0.05 (1)                           | 10.00 | B-D   | -2012                     | 0                                  |
| D-C    | -114  | 0                         | 0.0                       | 0.0                    | 0.01 (1)                           | 7.81  | A-E   | 0                         | 1654                               |
| F-A    | -1335 | 0                         | 0.0                       | 0.0                    | 0.05 (1)                           | 7.81  |       |                           |                                    |
| F-G    | 0     | 0                         | -18.5                     | -18.5                  | 0.22 (1)                           | 10.00 |       |                           |                                    |
| G-E    | 0     | 0                         | -18.5                     | -18.5                  | 0.22 (1)                           | 10.00 |       |                           |                                    |
| E-H    | 0     | 1599                      | -18.5                     | -18.5                  | 0.47 (1)                           | 10.00 |       |                           |                                    |
| H-I    | 0     | 1599                      | -18.5                     | -18.5                  | 0.47 (1)                           | 10.00 |       |                           |                                    |
| I-D    | 0     | 1599                      | -18.5                     | -18.5                  | 0.47 (1)                           | 10.00 |       |                           |                                    |

#### SPECIFIED CONCENTRATED LOADS (LBS)

| JT | LOC.    | LC1   | MAX.  | FACE | DIR.  | TYPE | HEEL  | CONN. |
|----|---------|-------|-------|------|-------|------|-------|-------|
| G  | 1-10-12 | -687  | -687  | ---  | FRONT | VERT | TOTAL | C1    |
| H  | 3-10-12 | -687  | -687  | ---  | FRONT | VERT | TOTAL | C1    |
| I  | 5-3-4   | -1333 | -1333 | ---  | FRONT | VERT | TOTAL | C1    |

#### CONNECTION REQUIREMENTS

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

TOTAL WEIGHT = 2 X 29 = 58 lb

#### DESIGN CRITERIA

##### SPECIFIED LOADS:

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

SPACING = 24.0 IN. C/C

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

THIS DESIGN COMPLIES WITH:

- PART 9 OF CBC 2015, ABC 2019
- PART 9 OF CBC 2012 (2019 AMENDMENT)
- CSA 086-14
- TPIG 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 (0.20")  
CALCULATED VERT. DEFL. (LL) = L/999 (0.01")  
ALLOWABLE DEFL. (TL) = L/360 (0.20")  
CALCULATED VERT. DEFL. (TL) = L/999 (0.03")

CSI: TC=0.06/1.00 (A-B:1), BC=0.47/1.00 (D-E:1), WB=0.24/1.00 (B-D:1), SG=0.55/1.00 (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 RIGHT HEEL ONLY

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

#### NAIL VALUES

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

PLATE PLACEMENT TOL = 0.250 inches

PLATE ROTATION TOL = 5.0 Deg.

JSI GRIP=0.82 (B) (INPUT=0.90)  
JSI METAL=0.36 (D) (INPUT=1.00)



Structural component only.  
DWG# T-2108030

|                                 |                     |               |          |                              |          |
|---------------------------------|---------------------|---------------|----------|------------------------------|----------|
| JOB NAME<br>417406              | TRUSS NAME<br>T12Z2 | QUANTITY<br>1 | PLY<br>2 | JOB DESC.<br>GREENPARK HOMES | DRWG NO. |
| Tamarack Roof Truss, Burlington |                     | TRUSS DESC.   |          |                              |          |

Version 8.420 5 Jan 21 2021 MiTek Industries, Inc. Fri Mar 19 17:34:13 2021 Page 2  
ID:SKJDi76mu4YinKXoNwwHk5za4YO-2zhw23zISX64NITcmLOzF74E8HAZrEONkkU8K2zZJWe

**PLATES (table is in inches)**

| JT | TYPE    | PLATES | W   | LEN | Y | X |
|----|---------|--------|-----|-----|---|---|
| D  | BMVW1+p | MT20   | 4.0 | 6.0 |   |   |
| E  | BMVW-t  | MT20   | 5.0 | 6.0 |   |   |
| F  | BMV1+p  | MT20   | 3.0 | 6.0 |   |   |

**NOTES (1)**

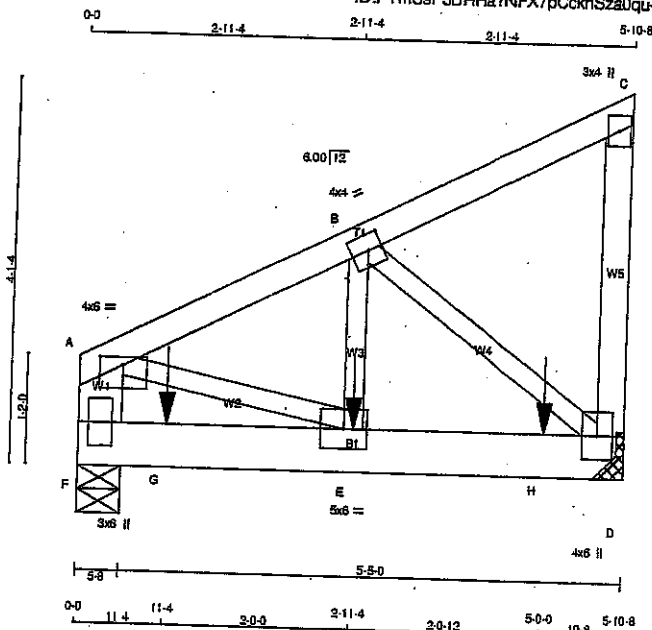
1) Lateral braces to be a minimum of 2X4 SPF #2.



Structural component only  
DWG# T-2108030 7/1

|                                 |                            |                      |                 |                                     |          |
|---------------------------------|----------------------------|----------------------|-----------------|-------------------------------------|----------|
| JOB NAME<br><b>417413</b>       | TRUSS NAME<br><b>T12Z3</b> | QUANTITY<br><b>1</b> | PLY<br><b>3</b> | JOB DESC.<br><b>GREENPARK HOMES</b> | DRWG NO. |
| Tamarack Roof Truss, Burlington |                            |                      |                 |                                     |          |

ID:PYmSsP3BHha?NFX7pCcknSza0qu-O1px1D\_W88myYc1V4TjM70mmw6kQ2p?JBjw/GJzJJC  
Version 8.420 S Jan 21 2021 Mitek Industries, Inc. Fri Mar 19 17:49:23 2021 Page 1



Scale = 1/23.5

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

DRY: SEASONED LUMBER.

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

| CHORDS #ROWS                             | SURFACE SPACING (IN) | LOAD (PLF)    |
|------------------------------------------|----------------------|---------------|
| TOP CHORDS : (0.122"x3") SPIRAL NAILS    |                      |               |
| A-C 1                                    | 12                   | TOP           |
| C-D 1                                    | 12                   | TOP           |
| F-A 2                                    | 12                   | TOP           |
| BOTTOM CHORDS : (0.122"x3") SPIRAL NAILS |                      |               |
| F-D 3                                    | 5                    | SIDE (1094.2) |
| WEBS : (0.122"x3") SPIRAL NAILS          |                      |               |
| 2x3 1                                    | 6                    |               |

STAGGER NAILS BY HALF THE SURFACE SPACING IN ADJACENT PLIES.

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

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

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

PLATES (table is in inches)

| JT TYPE | PLATES | W    | LEN | Y   | X         |
|---------|--------|------|-----|-----|-----------|
| A       | TMVW-p | MT20 | 4.0 | 6.0 | 1.00 3.00 |
| B       | TMVW-1 | MT20 | 4.0 | 4.0 | 2.00 1.75 |

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

| JT | FACTORED GROSS REACTION |      | MAXIMUM FACTORED GROSS REACTION |      | INPUT BRG IN-SX | RECORD BRG IN-SX |
|----|-------------------------|------|---------------------------------|------|-----------------|------------------|
|    | VERT                    | HORZ | DOWN                            | HORZ |                 |                  |
| D  | 4108                    | 0    | 4108                            | 0    | 5-8             | 5-8              |
| F  | 1337                    | 0    | 1337                            | 0    | 5-8             | 5-8              |

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

#### UNFACTORED REACTIONS

| JT | 1ST CASE |      | MAX. MIN. COMPONENT REACTIONS |          | WIND | DEAD | SOIL |
|----|----------|------|-------------------------------|----------|------|------|------|
|    | COMBINED | SNOW | LIVE                          | PERMLIVE |      |      |      |
| D  | 2894     | 1980 | 0                             | 0        | 0    | 935  | 0    |
| F  | 938      | 680  | 0                             | 0        | 0    | 277  | 0    |

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

#### BRACING

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

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

#### LOADING

TOTAL LOAD CASES: (4)

| MEMB. | CHORDS MAX. FACTORED FORCE (LBS) | FACTORED VERT. LOAD (PLF) | LC1   | MAX   | MAX. CS1 (LC) | UNBRAC LENGTH | MEMB. FR-TO | WEBS MAX. FACTORED FORCE (LBS) | MAX CS1 (LC) |
|-------|----------------------------------|---------------------------|-------|-------|---------------|---------------|-------------|--------------------------------|--------------|
|       |                                  |                           |       |       |               |               |             |                                |              |
| A-B   | -1821                            | 0                         | -91.8 | -91.8 | 0.04 (1)      | 6.25          | E-B         | 0                              | 0.1757       |
| B-C   | -9                               | 0                         | -91.8 | -91.8 | 0.03 (1)      | 10.00         | B-D         | -2059                          | 0            |
| D-C   | -114                             | 0                         | 0.0   | 0.0   | 0.01 (1)      | 7.81          | A-E         | 0                              | 0.1883       |
| F-A   | -1364                            | 0                         | 0.0   | 0.0   | 0.03 (1)      | 7.81          |             |                                |              |
| F-G   | 0                                | 0                         | -18.5 | -18.5 | 0.15 (1)      | 10.00         |             |                                |              |
| G-E   | 0                                | 0                         | -18.5 | -18.5 | 0.15 (1)      | 10.00         |             |                                |              |
| E-H   | 0                                | 1837                      | -18.5 | -18.5 | 0.60 (1)      | 10.00         |             |                                |              |
| H-D   | 0                                | 1837                      | -18.5 | -18.5 | 0.60 (1)      | 10.00         |             |                                |              |

#### SPECIFIED CONCENTRATED LOADS (LBS)

| JT | LOC.   | LC1   | MAX   | MAX+ | FACE | DIR. | TYPE  | HEEL | CONN. |
|----|--------|-------|-------|------|------|------|-------|------|-------|
| E  | 2-11-4 | -239  | -239  | -    | TOP  | VERT | TOTAL | -    | C1    |
| G  | 11-4   | -177  | -177  | -    | TOP  | VERT | TOTAL | -    | C1    |
| H  | 5-0-0  | -2958 | -2958 | -    | BACK | VERT | TOTAL | -    | C1    |

#### CONNECTION REQUIREMENTS

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

TOTAL WEIGHT = 3 X 29 = 88 lb

#### DESIGN CRITERIA

##### SPECIFIED LOADS:

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

SPACING = 24.0 IN. C/C

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

THIS DESIGN COMPLIES WITH:

- PART 9 OF CBC 2015, ABC 2019
- PART 9 OF CBC 2012 (2019 AMENDMENT)
- CSA 086-14
- TPC 2014

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

ALLOWABLE DEFL.(LL) = L/360 (0.20")  
CALCULATED VERT. DEFL.(LL) = 1/999 (0.02")  
ALLOWABLE DEFL.(TL) = L/360 (0.20")  
CALCULATED VERT. DEFL.(TL) = 1/999 (0.03")

CS1: TC=0.04/1.00 (A-B:1), BC=0.60/1.00 (D-E:1), WB=0.15/1.00 (B-D:1), SS1=0.55/1.00 (D-E:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE RIGHT HEEL ONLY

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

#### NAIL VALUES

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP = 0.76 (B) (INPUT = 0.90)  
JSI METAL = 0.25 (D) (INPUT = 1.00)



Structural component only  
DWG# T-2108047

|                    |                     |               |          |                              |             |          |
|--------------------|---------------------|---------------|----------|------------------------------|-------------|----------|
| JOB NAME<br>417413 | TRUSS NAME<br>T12Z3 | QUANTITY<br>1 | PLY<br>3 | JOB DESC.<br>GREENPARK HOMES | TRUSS DESC. | DRWG NO. |
|--------------------|---------------------|---------------|----------|------------------------------|-------------|----------|

Tamarack Roof Truss, Burlington

Version 8.420 5 Jan 21 2021 Mittek Industries, Inc. Fri Mar 19 17:49:23 2021 Page 2  
ID:PYmSsP3BHha?NFX7pCcknSza0au-Q1qx1D\_W88mvYc1V4TIM70mmw6kQ2p?JBjwGJzZJIC

**PLATES (table is in inches)**

| JT | TYPE    | PLATES | W   | LEN | Y | X |
|----|---------|--------|-----|-----|---|---|
| C  | TMV+p   | MT20   | 3.0 | 4.0 |   |   |
| D  | BMVW1+p | MT20   | 4.0 | 6.0 |   |   |
| E  | BMVW-4  | MT20   | 5.0 | 6.0 |   |   |
| F  | BMV1+p  | MT20   | 3.0 | 6.0 |   |   |

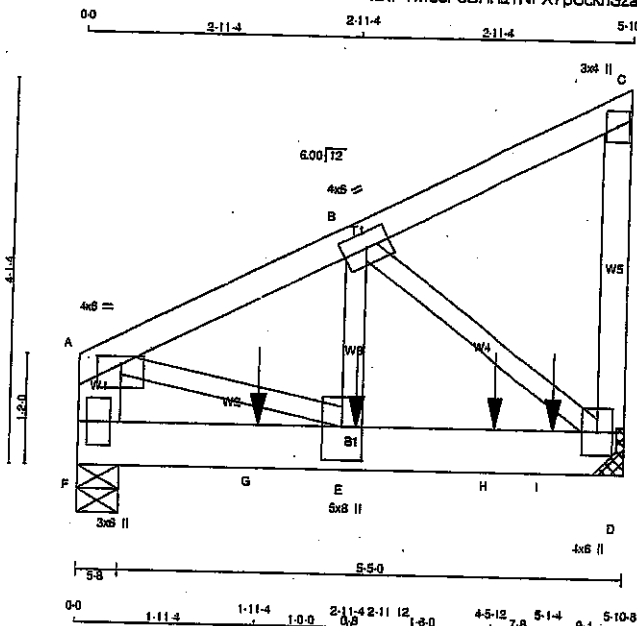
**NOTES (1)**

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



Structural component only  
DWG# T-2108047 *TH*

|                                 |                            |                      |                 |                                                                                                                                                                |          |
|---------------------------------|----------------------------|----------------------|-----------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|
| JOB NAME<br><b>417413</b>       | TRUSS NAME<br><b>T12Z4</b> | QUANTITY<br><b>1</b> | PLY<br><b>2</b> | JOB DESC.<br><b>GREENPARK HOMES</b>                                                                                                                            | DRWG NO. |
| Tamarack Roof Truss, Burlington |                            | TRUSS DESC.          |                 | Version 8.420 S Jan 21 2021 MTek Industries, Inc. Fri Mar 19 17:49:24 2021 Page 1<br>ID:PYmSsP3BHh?NFX7pCcknSza0qu-sDEKFZ_8vRupAlcieAEbgEJwAW3PhESTQzgsolzZJJP |          |



Scale = 1:23.5

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

DRY: SEASONED LUMBER.

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

| CHORDS #ROWS                             | SURFACE SPACING (IN) | LOAD (PLF)   |
|------------------------------------------|----------------------|--------------|
| TOP CHORDS : (0.122"x3") SPIRAL NAILS    |                      |              |
| A - C 1                                  | 12                   | TOP          |
| C - D 1                                  | 12                   | TOP          |
| F - A 2                                  | 12                   | TOP          |
| BOTTOM CHORDS : (0.122"x3") SPIRAL NAILS |                      |              |
| F - D 2                                  | 12                   | SIDE (183.1) |
| WEBS : (0.122"x3") SPIRAL NAILS          |                      |              |
| B - E 1                                  | 6                    | SIDE (119.7) |
| 2x3 1                                    | 6                    |              |

NAILS TO BE DRIVEN FROM ONE SIDE ONLY.

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

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

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

PLATES (table is in inches)

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

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

| BEARINGS | FACTORED GROSS REACTION | MAXIMUM FACTORED GROSS REACTION | INPUT BRG | RECORD BRG |
|----------|-------------------------|---------------------------------|-----------|------------|
| JT       | VERT                    | HORZ                            | DOWN      | HORZ       |
| D        | 3250                    | 0                               | 3250      | 0          |
| F        | 1483                    | 0                               | 1483      | 0          |
|          |                         |                                 | 5-8       | 5-8        |

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

#### UNFACTORED REACTIONS

| JT | 1ST LCASE COMBINED | SNOW | LIVE | PERM. LIVE | WIND | DEAD | SOIL |
|----|--------------------|------|------|------------|------|------|------|
| D  | 2287               | 1569 | 0    | 0          | 0    | 718  | 0    |
| F  | 1041               | 725  | 0    | 0          | 0    | 317  | 0    |

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

#### BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 6.18 FT. MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

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

#### LOADING

TOTAL LOAD CASES: (4)

| CHORDS | MEMB. | MAX. FACTORED FORCE (LBS) | FACTORED VERT. LOAD (PLF) | LC1 MAX | CS1 (LC) | MAX. UNBRACED LENGTH | WEBS  | MEMB. | MAX. FACTORED FORCE (LBS) | MAX. CS1 (LC) |
|--------|-------|---------------------------|---------------------------|---------|----------|----------------------|-------|-------|---------------------------|---------------|
| FR-TO  |       |                           |                           |         |          |                      | FR-TO |       |                           |               |
| A-B    | -2001 | 0                         | -91.8                     | -91.8   | 0.07 (1) | 6.16                 | E-B   | 0     | 1994                      | 0.24 (1)      |
| B-C    | -9    | 0                         | -91.8                     | -91.8   | 0.05 (1) | 10.00                | B-D   | -2282 | 0                         | 0.27 (1)      |
| D-C    | -116  | 0                         | 0.0                       | 0.0     | 0.01 (1) | 7.81                 | A-E   | 0     | 1859                      | 0.23 (1)      |
| F-A    | -1488 | 0                         | 0.0                       | 0.0     | 0.05 (1) | 7.81                 |       |       |                           |               |
| F-G    | 0     | 0                         | -18.5                     | -18.5   | 0.13 (1) | 10.00                |       |       |                           |               |
| G-E    | 0     | 0                         | -18.5                     | -18.5   | 0.13 (1) | 10.00                |       |       |                           |               |
| E-H    | 0     | 1798                      | -18.5                     | -18.5   | 0.81 (1) | 10.00                |       |       |                           |               |
| H-I    | 0     | 1798                      | -18.5                     | -18.5   | 0.81 (1) | 10.00                |       |       |                           |               |
| I-D    | 0     | 1798                      | -18.5                     | -18.5   | 0.81 (1) | 10.00                |       |       |                           |               |

#### SPECIFIED CONCENTRATED LOADS (LBS)

| JT | LOC.    | LC1   | MAX   | FACE | DIR. | TYPE | HEEL  | CONN. |
|----|---------|-------|-------|------|------|------|-------|-------|
| E  | 2-11-12 | -815  | -815  | ---  | BACK | VERT | TOTAL | C1    |
| G  | 1-11-4  | -178  | -178  | ---  | TOP  | VERT | TOTAL | C1    |
| H  | 4-5-12  | -389  | -389  | ---  | BACK | VERT | TOTAL | C1    |
| I  | 5-1-4   | -1508 | -1508 | ---  | BACK | VERT | TOTAL | C1    |

#### CONNECTION REQUIREMENTS

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

TOTAL WEIGHT = 2 X 29 = 58 lb

#### DESIGN CRITERIA

##### SPECIFIED LOADS:

|            |        |     |
|------------|--------|-----|
| TOP CH. LL | = 25.8 | PSF |
| DL         | = 6.0  | PSF |
| BOT CH. LL | = 0.0  | PSF |
| DL         | = 7.4  | PSF |
| TOTAL LOAD | = 39.0 | PSF |

SPACING = 24.0 IN/C

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

THIS DESIGN COMPLIES WITH:

- PART 9 OF CBC 2015, ABC 2019
- PART 9 OF OBC 2012 (2019 AMENDMENT)
- CSA 088-14
- TPIC 2014

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

ALLOWABLE DEFL. (LL) = L/360 (0.20")  
CALCULATED VERT. DEFL. (LL) = L/999 (0.02")  
ALLOWABLE DEFL. (TL) = L/360 (0.20")  
CALCULATED VERT. DEFL. (TL) = L/999 (0.08")

CS1: TC=0.07/1.00 (A-B:1), BC=0.61/1.00 (D-E:1), WB=0.27/1.00 (B-D:1), SS=0.58/1.00 (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 RIGHT HEEL ONLY

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

#### NAIL VALUES

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP = 0.85 (D) (INPUT = 0.90)  
JSI METAL = 0.40 (D) (INPUT = 1.00)



Structural component only  
DWG# T-2108048

|                                 |                     |               |          |                              |          |
|---------------------------------|---------------------|---------------|----------|------------------------------|----------|
| JOB NAME<br>417413              | TRUSS NAME<br>T12Z4 | QUANTITY<br>1 | PLY<br>2 | JOB DESC.<br>GREENPARK HOMES | DRWG NO. |
| Tamarack Roof Truss, Burlington |                     |               |          | TRUSS DESC.                  |          |

Version 8.420 5 Jan 21 2021 MTEK Industries, Inc. Fri Mar 19 17:48:24 2021 Page 2  
ID:PYmSsP3BHha?NFX7pCcknSza0qu-sDEKFZ 8vRupAlcAeHqEJwAW3PnESTQzqsolzZJIP

PLATES (table is in inches)

| JT | TYPE    | PLATES | W   | LEN | Y    | X    |
|----|---------|--------|-----|-----|------|------|
| C  | TMV+p   | MT20   | 3.0 | 4.0 |      |      |
| D  | BMVW1+p | MT20   | 4.0 | 8.0 |      |      |
| E  | BMVW+1  | MT20   | 5.0 | 8.0 | 4.25 | 2.50 |
| F  | BMV1+p  | MT20   | 3.0 | 6.0 |      |      |

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



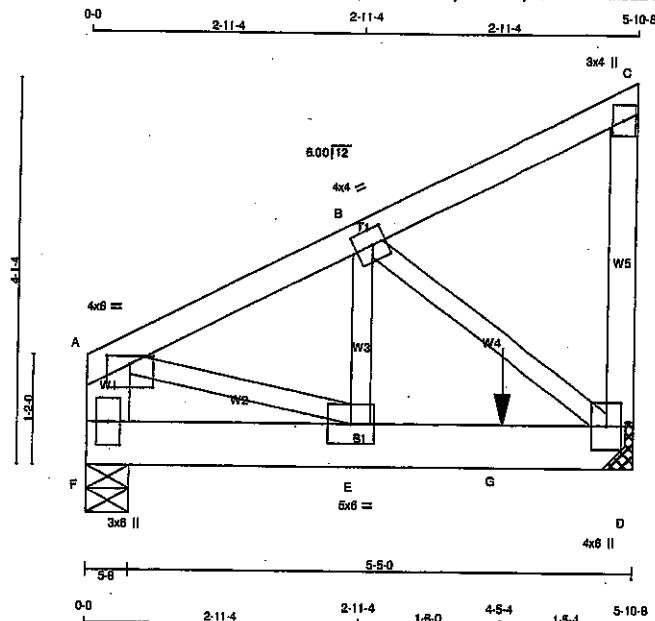
Structural component only  
DWG# T-2108048 7/2

|          |            |          |     |             |                 |          |
|----------|------------|----------|-----|-------------|-----------------|----------|
| JOB NAME | TRUSS NAME | QUANTITY | PLY | JOB DESC.   | GREENPARK HOMES | DRWG NO. |
| 417416   | T12Z5      | 1        | 2   | TRUSS DESC. |                 |          |

Tamarack Roof Truss, Burlington

Version 8.420 S Jan 21 2021 MITek Industries, Inc. Set Mar 20 07:42:34 2021 Page 1

ID:SKJDj76mu4YipKXoNwwHk5za4YO-AUpC2tz8B8pW9EN6z5Rk6tdncQXAIYcQ96MFzZ75



Scale = 1/2\"/>

TOTAL WEIGHT = 2 X 29 = 58 lb

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

DRY: SEASONED LUMBER.

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

| CHORDS #ROWS                             | SURFACE<br>SPACING (IN) | LOAD(PLF)  |
|------------------------------------------|-------------------------|------------|
| TOP CHORDS : (0.122"x3") SPIRAL NAILS    |                         |            |
| A-C                                      | 1 12                    | TOP        |
| C-D                                      | 1 12                    | TOP        |
| F-A                                      | 2 12                    | TOP        |
| BOTTOM CHORDS : (0.122"x3") SPIRAL NAILS |                         |            |
| F-D                                      | 2 12                    | SIDE(12.1) |
| WEBS : (0.122"x3") SPIRAL NAILS          |                         |            |
| 2x3                                      | 1 R                     |            |

NAILS TO BE DRIVEN FROM ONE SIDE ONLY.

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

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

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

PLATES (table is in inches)

| JT. TYPE   | PLATES | W   | LEN | Y    | X    |
|------------|--------|-----|-----|------|------|
| A - TMVW-p | MT20   | 4.0 | 6.0 | 1.00 | 3.00 |
| B - TMWW-t | MT20   | 4.0 | 4.0 | 2.00 | 1.75 |
| C - TMV-p  | MT20   | 3.0 | 4.0 |      |      |

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

| JT | FACTORED GROSS REACTION |      | MAXIMUM FACTORED GROSS REACTION |      | INPUT BRG | REQD BRG   |
|----|-------------------------|------|---------------------------------|------|-----------|------------|
|    | VERT                    | HORZ | DOWN                            | HORZ | IN-SX     | IN-SX      |
| D  | 1754                    | 0    | 1754                            | 0    | 0         | MECHANICAL |
| F  | 841                     | 0    | 841                             | 0    | 0         | 5-8        |

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

#### UNFACTORED REACTIONS

| JT | 1ST LCASE | MAX. MIN. COMPONENT REACTIONS | PERM. LIVE | WIND  | DEAD    | SOIL  |
|----|-----------|-------------------------------|------------|-------|---------|-------|
| D  | 1240      | 820 / 0                       | 0 / 0      | 0 / 0 | 420 / 0 | 0 / 0 |
| F  | 594       | 392 / 0                       | 0 / 0      | 0 / 0 | 202 / 0 | 0 / 0 |

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

#### BRACING

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

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

#### LOADING

TOTAL LOAD CASES: (4)

| MEMB. | CHORDS      |                  | FACTORED |            | WEBS  |             | MAX. FACTORED |            |
|-------|-------------|------------------|----------|------------|-------|-------------|---------------|------------|
|       | FORCE (LBS) | VERT. LOAD (PLF) | LC1      | MAX. (PLF) | MEMB. | FORCE (LBS) | LC1           | MAX. (LBS) |
| FR-TO |             | FROM TO          |          |            | FR-TO |             |               |            |
| A-B   | -1163 / 0   | -91.8            | -91.8    | 0.08 (1)   | 6.25  | E-B         | 0 / 1008      | 0.12 (1)   |
| B-C   | -11 / 0     | -91.8            | -91.8    | 0.08 (1)   | 6.25  | B-D         | -1322 / 0     | 0.16 (1)   |
| D-C   | -110 / 0    | 0.0              | 0.0      | 0.01 (1)   | 7.81  | A-E         | 0 / 1087      | 0.13 (1)   |
| F-A   | -912 / 0    | 0.0              | 0.0      | 0.03 (1)   | 7.81  |             |               |            |
| F-E   | 0 / 0       | -42.6            | -42.6    | 0.14 (1)   | 10.00 |             |               |            |
| E-G   | 0 / 1051    | -42.6            | -42.6    | 0.51 (1)   | 10.00 |             |               |            |
| G-D   | 0 / 1051    | -18.5            | -18.5    | 0.51 (1)   | 10.00 |             |               |            |

#### SPECIFIED CONCENTRATED LOADS (LBS)

| JT | LOC.  | LC1   | MAX-  | MAX+ | FACE | DIR. | TYPE  | HEEL | CONN. |
|----|-------|-------|-------|------|------|------|-------|------|-------|
| G  | 4-5-4 | -1300 | -1300 |      | 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

GIRDER TYPE: CStdGirder  
START DISTANCE = 0-0  
START SPAN CARRIED = 3-0-0  
END DISTANCE = 4-5-4  
END SPAN CARRIED = 3-0-0  
END WALL WIDTH = 1-3  
APPLIED TO FRONT SIDE OF BOTTOM CHORD.  
- ADDTL LOADS BASED ON 55 % OF GSL.

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

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

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

ALLOWABLE DEFL.(LL) = L/360 (0.20")  
CALCULATED VERT. DEFL.(LL) = L/999 (0.01")  
ALLOWABLE DEFL.(TL) = L/360 (0.20")  
CALCULATED VERT. DEFL.(TL) = L/999 (0.03")

CSI: TC=0.06/1.00 (A-B:1), BC=0.51/1.00 (D-E:1), WB=0.16/1.00 (B-D:1), SSI=0.38/1.00 (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 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= 0.68 (B) (INPUT = 0.90)  
JSI METAL= 0.24 (D) (INPUT = 1.00)



Structural component only  
DWG# T-2108070

|          |            |          |     |             |                 |          |
|----------|------------|----------|-----|-------------|-----------------|----------|
| JOB NAME | TRUSS NAME | QUANTITY | PLY | JOB DESC.   | GREENPARK HOMES | DRWG NO. |
| 417416   | T12Z5      | 1        | 2   | TRUSS DESC. |                 |          |

Tamarack Roof Truss, Burlington

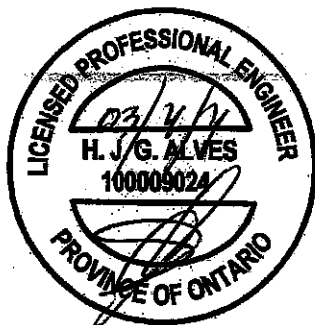
Version 8.420 S Jan 21 2021 Mitek Industries, Inc. Sat Mar 20 07:42:34 2021 Page 2  
ID:SKJDI?6mu4YipKXoNwwHk5za4YO-AUjc2tz6Bt6pW9EN6z5Rk6tdncQXAIYcQ96MFzZ75J

**PLATES (table is in inches)**

| JT | TYPE    | PLATES | W   | LEN | Y | X |
|----|---------|--------|-----|-----|---|---|
| D  | BMVW1+p | MT20   | 4.0 | 6.0 |   |   |
| E  | BMVW1-t | MT20   | 5.0 | 6.0 |   |   |
| F  | BMV1+p  | MT20   | 3.0 | 6.0 |   |   |

**NOTES:** (1)

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



Structural component only  
DWG# T-2108070 *in*

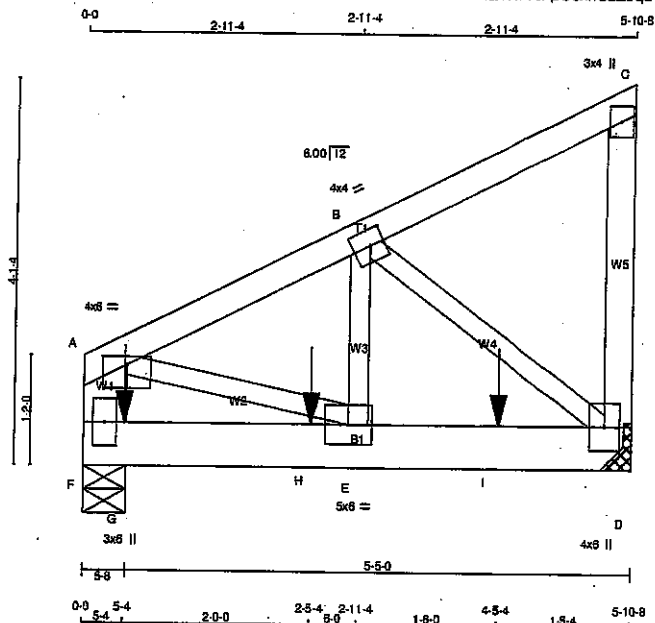
|                           |                            |                      |                 |                                     |          |
|---------------------------|----------------------------|----------------------|-----------------|-------------------------------------|----------|
| JOB NAME<br><b>417419</b> | TRUSS NAME<br><b>T12Z6</b> | QUANTITY<br><b>1</b> | PLY<br><b>2</b> | JOB DESC.<br><b>GREENPARK HOMES</b> | DRWG NO. |
|---------------------------|----------------------------|----------------------|-----------------|-------------------------------------|----------|

Tamarack Roof Truss, Burlington

Version 8.420 S Jan 21 2021 Mtek Industries, Inc. Sat Mar 20 07:56:29 2021 Page 1

ID:PYmSsP3BHha?NFX7pCcknSza0qu-E7nG104TYJLCTZxqZF4CqZwNblGq9SscrwnAMzZ6uG

Scale = 1/23.5



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

DRY: SEASONED LUMBER.

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

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

NAILS TO BE DRIVEN FROM ONE SIDE ONLY.

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

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

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

#### PLATES (table is in inches)

| JT TYPE | PLATES | W    | LEN | Y   | X         |
|---------|--------|------|-----|-----|-----------|
| A       | TMVW-p | MT20 | 4.0 | 6.0 | 1.00 3.00 |
| B       | TMVW-l | MT20 | 4.0 | 4.0 | 2.00 1.75 |
| C       | TMV-p  | MT20 | 3.0 | 4.0 |           |

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

| JT | FACTORED GROSS REACTION |      | MAXIMUM FACTORED GROSS REACTION |      | INPUT BRG  | REQD BRG |
|----|-------------------------|------|---------------------------------|------|------------|----------|
|    | VERT                    | HORZ | DOWN                            | HORZ |            |          |
| D  | 1771                    | 0    | 1771                            | 0    | MECHANICAL | 5-8      |
| F  | 1182                    | 0    | 1182                            | 0    | 5-8        | 5-8      |

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

#### UNFACTORED REACTIONS

| JT | 1ST CASE COMBINED |         | MAX. MIN. COMPONENT REACTIONS |       | WIND  | DEAD    | SOIL  |
|----|-------------------|---------|-------------------------------|-------|-------|---------|-------|
|    | SNOW              | LIVE    | PERM. LIVE                    | WIND  |       |         |       |
| D  | 1250              | 835 / 0 | 0 / 0                         | 0 / 0 | 0 / 0 | 415 / 0 | 0 / 0 |
| F  | 829               | 585 / 0 | 0 / 0                         | 0 / 0 | 0 / 0 | 244 / 0 | 0 / 0 |

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

#### BRACING

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

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

#### LOADING

TOTAL LOAD CASES: (4)

| CHORDS |                           |                           |       |                        | WEBS               |       |                           |                        |  |
|--------|---------------------------|---------------------------|-------|------------------------|--------------------|-------|---------------------------|------------------------|--|
| MEMB.  | MAX. FACTORED FORCE (LBS) | FACTORED VERT. LOAD (PLF) | LC1   | MAX. FACTORED CSI (LC) | MAX. UNBRAC LENGTH | MEMB. | MAX. FACTORED FORCE (LBS) | MAX. FACTORED CSI (LC) |  |
| FR-TO  |                           | FROM                      | TO    |                        |                    | FR-TO |                           |                        |  |
| A-B    | -1312 / 0                 | -91.8                     | -91.8 | 0.06 (1)               | 6.25               | E-B   | 0 / 1177                  | 0.15 (1)               |  |
| B-C    | -11 / 0                   | -91.8                     | -91.8 | 0.05 (1)               | 6.25               | B-D   | -1488 / 0                 | 0.18 (1)               |  |
| D-C    | -111 / 0                  | 0.0                       | 0.0   | 0.01 (1)               | 7.81               | A-E   | 0 / 1223                  | 0.15 (1)               |  |
| F-A    | -1014 / 0                 | 0.0                       | 0.0   | 0.04 (1)               | 7.81               |       |                           |                        |  |
|        |                           |                           |       |                        |                    |       |                           |                        |  |
| F-G    | 0 / 0                     | -18.5                     | -18.5 | 0.15 (1)               | 10.00              |       |                           |                        |  |
| G-H    | 0 / 0                     | -18.5                     | -18.5 | 0.15 (1)               | 10.00              |       |                           |                        |  |
| H-E    | 0 / 0                     | -18.5                     | -18.5 | 0.15 (1)               | 10.00              |       |                           |                        |  |
| E-I    | 0 / 1183                  | -18.5                     | -18.5 | 0.47 (1)               | 10.00              |       |                           |                        |  |
| I-D    | 0 / 1183                  | -18.5                     | -18.5 | 0.47 (1)               | 10.00              |       |                           |                        |  |

#### SPECIFIED CONCENTRATED LOADS (LBS)

| JT | LOC.  | LC1   | MAX.  | FACE | DIR. | TYPE | HEEL  | CONN. |
|----|-------|-------|-------|------|------|------|-------|-------|
| G  | 5-4   | -180  | -180  | —    | TOP  | VERT | TOTAL | C1    |
| H  | 2-5-4 | -238  | -238  | —    | BACK | VERT | TOTAL | C1    |
| I  | 4-5-4 | -1203 | -1203 | —    | BACK | VERT | TOTAL | C1    |

#### CONNECTION REQUIREMENTS

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

TOTAL WEIGHT = 2 X 29 = 58 lb

#### DESIGN CRITERIA

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

SPACING = 24.0 IN. C/C

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

THIS DESIGN COMPLIES WITH:

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

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

ALLOWABLE DEFL.(LL) = L/360 (0.20")  
CALCULATED VERT. DEFL.(LL) = L/999 (0.01")  
ALLOWABLE DEFL.(TL) = L/360 (0.20")  
CALCULATED VERT. DEFL.(TL) = L/999 (0.02")

CSI: TC=0.08/1.00 (A-B:1), BC=0.47/1.00 (D-E:1),  
WB=0.18/1.00 (B-D:1), SS=0.33/1.00 (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 RIGHT HEEL ONLY

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

#### NAIL VALUES

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

PLATE PLACEMENT TOL = 0.250 inches

PLATE ROTATION TOL = 5.0 Deg.

JSI GRIP = 0.77 (B) (INPUT = 0.90)  
JSI METAL = 0.27 (D) (INPUT = 1.00)



Structural component only  
DWG# T-2108073

CONTINUED ON PAGE 2

|                                 |                     |               |          |                              |          |
|---------------------------------|---------------------|---------------|----------|------------------------------|----------|
| JOB NAME<br>417419              | TRUSS NAME<br>T12Z6 | QUANTITY<br>1 | PLY<br>2 | JOB DESC.<br>GREENPARK HOMES | DRWG NO. |
| Tamarack Roof Truss, Burlington |                     |               |          | TRUSS DESC.                  |          |

Version 8.420 S Jan 21 2021 Mitek Industries, Inc. Sat Mar 20 07:58:29 2021 Page 2  
ID:PYmSsP3BHha?NFX7pCdmSza0qu-E7nG1O4fYQJLCTZsXqZF4CoZwNblqq9ScrwnAMzZ6uG

**PLATES** (table is in inches)

| JT | TYPE    | PLATES | W   | LEN | Y | X |
|----|---------|--------|-----|-----|---|---|
| D  | BMVW1+p | MT20   | 4.0 | 6.0 |   |   |
| E  | BMVW1+  | MT20   | 5.0 | 6.0 |   |   |
| F  | BMV1+p  | MT20   | 3.0 | 6.0 |   |   |

**NOTES** (1)

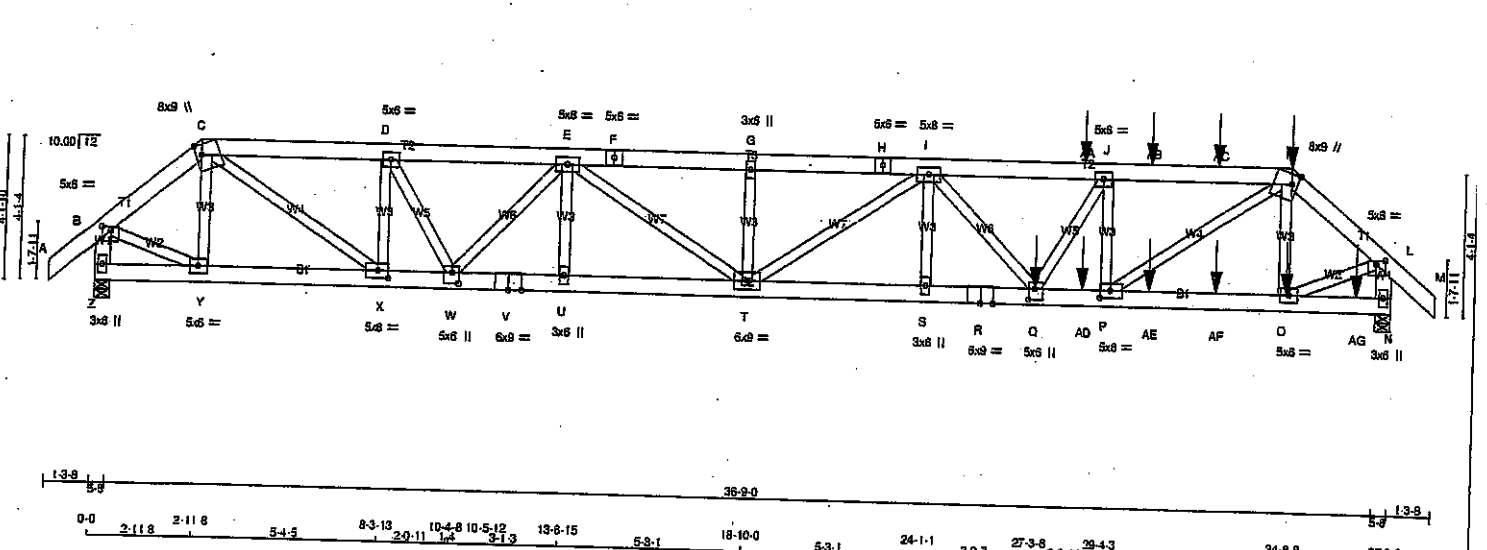
1) Lateral braces to be a minimum of 2X4 SPF #2.



Structural component only  
DWG# T-2108073 *ml*

| JOB NAME                        | TRUSS NAME | QUANTITY | PLY | JOB DESC.       | DRWG NO. |
|---------------------------------|------------|----------|-----|-----------------|----------|
| 417406                          | T14Z       | 1        | 2   | GREENPARK HOMES |          |
| Tamarack Roof Truss, Burlington |            |          |     | TRUSS DESC.     |          |

Version 8.420 S Jan 21 2021 MTEK Industries, Inc. Fri Mar 19 17:24:16 2021 Page 1  
 ID:SKJD?76mu4YpKXoNwwHk6za4YO-SXM3g47akSVIEDCBRTxgtlh6V6X2VhpdjpwNzZJW  
 Scale: 3/16"=1'



| CHORDS          | SIZE | LUMBER | DESCR. |
|-----------------|------|--------|--------|
| A - C           | 2x6  | DRY    | No.2   |
| C - F           | 2x6  | DRY    | No.2   |
| F - H           | 2x6  | DRY    | No.2   |
| H - K           | 2x6  | DRY    | No.2   |
| K - M           | 2x6  | DRY    | No.2   |
| M - P           | 2x6  | DRY    | No.2   |
| P - R           | 2x6  | DRY    | No.2   |
| R - N           | 2x6  | DRY    | No.2   |
| ALL WEBS EXCEPT | 2x4  | DRY    | No.2   |

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

| CHORDS #ROWS                            | SURFACE SPACING (IN) | LOAD (PLF) |
|-----------------------------------------|----------------------|------------|
| TOP CHORDS: (0.122"x3") SPIRAL NAILS    |                      |            |
| A-C 2                                   | 12                   | TOP        |
| C-F 2                                   | 12                   | TOP        |
| F-H 2                                   | 12                   | TOP        |
| H-K 2                                   | 12                   | TOP        |
| K-M 2                                   | 12                   | TOP        |
| M-P 2                                   | 12                   | TOP        |
| P-R 2                                   | 12                   | TOP        |
| R-N 2                                   | 12                   | TOP        |
| BOTTOM CHORDS: (0.122"x3") SPIRAL NAILS |                      |            |
| Z-V 2                                   | 12                   | TOP        |
| V-R 2                                   | 12                   | TOP        |
| R-N 2                                   | 12                   | TOP        |
| WEBS: (0.122"x3") SPIRAL NAILS          |                      |            |
| 2x4 1                                   | 8                    | TOP        |

NAILS TO BE DRIVEN FROM ONE SIDE ONLY.

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

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

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

| BEARINGS | FACTORED GROSS REACTION | MAXIMUM FACTORED GROSS REACTION | INPUT BRG | REQD BRG |
|----------|-------------------------|---------------------------------|-----------|----------|
| JT       | VERT                    | DOWN                            | IN-SX     | IN-SX    |
| Z        | 3130                    | 0                               | 5-8       | 5-8      |
| N        | 5053                    | 0                               | 5-8       | 5-8      |

| UNFACTORED REACTIONS | 1ST CASE | MAX/MIN. COMPONENT REACTIONS |
|----------------------|----------|------------------------------|
| JT                   | COMBINED | LIVE                         |
| Z                    | 2209     | 1473.0                       |
| N                    | 3567     | 2375.0                       |

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

BRACING  
 TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.53 FT.  
 MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

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

LOADING  
 TOTAL LOAD CASES: (4)

| CHORDS | MEMB.    | MAX. FACTORED FORCE (LBS) | FACTORED VERT. LOAD (LBS) | MAX. FACTORED HORIZ. LOAD (LBS) | MAX. FACTORED UNBRACED LENGTH (FT) | WEBS | MEMB.   | MAX. FACTORED FORCE (LBS) | MAX. FACTORED HORIZ. LOAD (LBS) |
|--------|----------|---------------------------|---------------------------|---------------------------------|------------------------------------|------|---------|---------------------------|---------------------------------|
| A-B    | 0/42     | -91.8                     | -91.8                     | 0.04 (1)                        | 10.00                              | Y-C  | -718.0  | 0.08 (1)                  | 0.08 (1)                        |
| B-C    | -3114.0  | -91.8                     | -91.8                     | 0.05 (1)                        | 8.21                               | O-K  | -1207.0 | 0.10 (1)                  | 0.10 (1)                        |
| C-D    | -5820.0  | -91.8                     | -91.8                     | 0.16 (1)                        | 4.79                               | B-Y  | 0/2527  | 0.22 (1)                  | 0.22 (1)                        |
| D-E    | -6629.0  | -91.8                     | -91.8                     | 0.15 (1)                        | 4.50                               | O-L  | 0/4220  | 0.37 (1)                  | 0.37 (1)                        |
| E-F    | -10130.0 | -91.8                     | -91.8                     | 0.27 (1)                        | 3.71                               | X-D  | -2272.0 | 0.19 (1)                  | 0.19 (1)                        |
| F-G    | -10130.0 | -91.8                     | -91.8                     | 0.28 (1)                        | 3.71                               | P-J  | -3528.0 | 0.30 (1)                  | 0.30 (1)                        |
| G-H    | -10130.0 | -91.8                     | -91.8                     | 0.28 (1)                        | 3.70                               | C-X  | 0/6855  | 0.59 (1)                  | 0.59 (1)                        |
| H-I    | -10130.0 | -91.8                     | -91.8                     | 0.28 (1)                        | 3.70                               | X-E  | 0/4185  | 0.37 (1)                  | 0.37 (1)                        |
| I-AA   | -11035.0 | -91.8                     | -91.8                     | 0.32 (1)                        | 3.53                               | U-E  | 0/114   | 0.01 (4)                  | 0.01 (4)                        |
| AA-J   | -11035.0 | -91.8                     | -91.8                     | 0.32 (1)                        | 3.53                               | S-I  | 0/186   | 0.02 (4)                  | 0.02 (4)                        |
| J-AB   | -9444.0  | -91.8                     | -91.8                     | 0.34 (1)                        | 3.75                               | T-I  | -1106.0 | 0.28 (1)                  | 0.28 (1)                        |
| AB-AC  | -9444.0  | -91.8                     | -91.8                     | 0.34 (1)                        | 3.75                               | E-T  | 0/2097  | 0.19 (1)                  | 0.19 (1)                        |
| AC-K   | -9444.0  | -91.8                     | -91.8                     | 0.34 (1)                        | 3.75                               | T-G  | -481.0  | 0.04 (1)                  | 0.04 (1)                        |
| K-L    | -5201.0  | -91.8                     | -91.8                     | 0.07 (1)                        | 5.08                               | Q-J  | 0/3238  | 0.29 (1)                  | 0.29 (1)                        |
| L-M    | 0/42     | -91.8                     | -91.8                     | 0.04 (1)                        | 10.00                              | I-Q  | -12.0   | 0.00 (4)                  | 0.00 (4)                        |
| Z-B    | -3131.0  | 0.0                       | 0.0                       | 0.11 (1)                        | 7.80                               | D-W  | 0/2054  | 0.18 (1)                  | 0.18 (1)                        |
| N-L    | -5050.0  | 0.0                       | 0.0                       | 0.18 (1)                        | 6.48                               | W-E  | -2390.0 | 0.33 (1)                  | 0.33 (1)                        |
| Z-Y    | 0/0      | -18.5                     | -18.5                     | 0.03 (1)                        | 10.00                              |      |         |                           |                                 |
| Y-X    | 0/2349   | -18.5                     | -18.5                     | 0.19 (1)                        | 10.00                              |      |         |                           |                                 |
| X-W    | 0/5820   | -18.5                     | -18.5                     | 0.42 (1)                        | 10.00                              |      |         |                           |                                 |
| W-V    | 0/8407   | -18.5                     | -18.5                     | 0.59 (1)                        | 10.00                              |      |         |                           |                                 |
| V-U    | 0/8407   | -18.5                     | -18.5                     | 0.59 (1)                        | 10.00                              |      |         |                           |                                 |
| U-T    | 0/8407   | -18.5                     | -18.5                     | 0.59 (1)                        | 10.00                              |      |         |                           |                                 |
| T-S    | 0/11039  | -18.5                     | -18.5                     | 0.76 (1)                        | 10.00                              |      |         |                           |                                 |
| S-R    | 0/11039  | -18.5                     | -18.5                     | 0.83 (1)                        | 10.00                              |      |         |                           |                                 |
| R-Q    | 0/11039  | -18.5                     | -18.5                     | 0.83 (1)                        | 10.00                              |      |         |                           |                                 |
| Q-AD   | 0/9444   | -18.5                     | -18.5                     | 0.73 (1)                        | 10.00                              |      |         |                           |                                 |
| AD-P   | 0/9444   | -18.5                     | -18.5                     | 0.73 (1)                        | 10.00                              |      |         |                           |                                 |
| P-AE   | 0/3824   | -18.5                     | -18.5                     | 0.30 (1)                        | 10.00                              |      |         |                           |                                 |
| AE-AF  | 0/3824   | -18.5                     | -18.5                     | 0.30 (1)                        | 10.00                              |      |         |                           |                                 |
| AF-O   | 0/3924   | -18.5                     | -18.5                     | 0.30 (1)                        | 10.00                              |      |         |                           |                                 |
| O-AG   | 0/0      | -18.5                     | -18.5                     | 0.05 (4)                        | 10.00                              |      |         |                           |                                 |
| AG-N   | 0/0      | -18.5                     | -18.5                     | 0.05 (4)                        | 10.00                              |      |         |                           |                                 |

| SPECIFIED CONCENTRATED LOADS (LBS) | JT      | LOC.  | LC1   | MAX- | MAX+ | FACE  | DIR. | TYPE  | HEEL | CONN. |
|------------------------------------|---------|-------|-------|------|------|-------|------|-------|------|-------|
| K                                  | 34-8-8  | -30   | -30   | -    | -    | FRONT | VERT | DEAD  | -    | C1    |
| K                                  | 34-8-8  | -82   | -82   | -    | -    | BACK  | VERT | TOTAL | -    | C1    |
| K                                  | 34-8-8  | -125  | -125  | -    | -    | FRONT | VERT | SNOW  | -    | C1    |
| O                                  | 34-7-12 | -21   | -21   | -    | -    | BACK  | VERT | TOTAL | -    | C1    |
| Q                                  | 27-3-8  | -2088 | -2088 | -    | -    | BACK  | VERT | TOTAL | -    | C1    |

TOTAL WEIGHT = 2 X 226 = 452 LBS

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

SPECIFIED LOADS:  
 TOP CH. LL = 25.6 PSF  
 DL = 6.0 PSF  
 BOT CH. LL = 0.0 PSF  
 DL = 7.4 PSF  
 TOTAL LOAD = 39.0 PSF  
 SPACING = 24.0 IN/C/C

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

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

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

THIS DESIGN COMPLIES WITH:  
 - PART 9 OF CBC 2015, ABC 2018  
 - PART 9 OF CBC 2012 (2019 AMENDMENT)  
 - CSA 086-14  
 - TPIC 2014

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

ALLOWABLE DEFL. (LL) = L/360 (1.26")  
 CALCULATED VERT. DEFL. (LL) = L/999 (0.26")  
 ALLOWABLE DEFL. (TL) = L/360 (1.26")  
 CALCULATED VERT. DEFL. (TL) = L/934 (0.48")

CSI: TC=0.34/1.00 (J-K-1), BC=0.83/1.00 (Q-S-1),  
 WB=0.59/1.00 (K-P-1), SS=0.13/1.00 (J-K-1)

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

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE HEELS OFF

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

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

PLATE PLACEMENT TOL = 0.250 inches

PLATE ROTATION TOL = 5.0 Deg.

JSI GRIP = 0.90 (X) (INPUT = 0.90)  
 JSI METAL = 0.85 (V) (INPUT = 1.00)



Structural component only  
 DWG# T-2108032 1/2

|          |            |          |     |             |                 |          |
|----------|------------|----------|-----|-------------|-----------------|----------|
| JOB NAME | TRUSS NAME | QUANTITY | PLY | JOB DESC.   | GREENPARK HOMES | DRWG NO. |
| 417406   | T14Z       | 1        | 2   | TRUSS DESC. |                 |          |

Tamarack Roof Truss, Burlington

Version 8.420 S Jan 21 2021 Mitek Industries, Inc. Fri Mar 19 17:34:16 2021 Page 2  
ID:SKJD1?6mu4YtoKXoNwwHk5za4YO-SXM3o4?akSVfEDCBRTxgtliih6V6X2VhodlipwNzZJW

**PLATES (table is in inches)**

| JT | TYPE    | PLATES | W   | LEN | Y    | X    |
|----|---------|--------|-----|-----|------|------|
| B  | TMVW-p  | MT20   | 5.0 | 6.0 | 1.25 | 3.25 |
| C  | TTWW+m  | MT20   | 8.0 | 9.0 | 3.50 | 2.00 |
| D  | TMWW-t  | MT20   | 5.0 | 6.0 |      |      |
| E  | TMWWW-t | MT20   | 5.0 | 8.0 |      |      |
| F  | TS-t    | MT20   | 5.0 | 6.0 |      |      |
| G  | TMW+w   | MT20   | 3.0 | 6.0 |      |      |
| H  | TS-t    | MT20   | 5.0 | 6.0 |      |      |
| I  | TMWWW-t | MT20   | 5.0 | 8.0 |      |      |
| J  | TMWW-t  | MT20   | 5.0 | 6.0 |      |      |
| K  | TTWW+m  | MT20   | 8.0 | 9.0 | 3.50 | 2.00 |
| L  | TMVW-p  | MT20   | 5.0 | 6.0 | 1.25 | 3.25 |
| N  | BMV1+p  | MT20   | 3.0 | 6.0 |      |      |
| O  | BMWW-t  | MT20   | 5.0 | 6.0 |      |      |
| P  | BMWW-t  | MT20   | 5.0 | 8.0 | 2.50 | 3.75 |
| Q  | BMWW-t  | MT20   | 5.0 | 6.0 | 3.75 | 2.25 |
| R  | BS-t    | MT20   | 6.0 | 9.0 |      |      |
| S  | BMW+w   | MT20   | 3.0 | 6.0 |      |      |
| T  | BMWWW-t | MT20   | 6.0 | 9.0 |      |      |
| U  | BMW+w   | MT20   | 3.0 | 6.0 |      |      |
| V  | BS-t    | MT20   | 6.0 | 9.0 |      |      |
| W  | BMWW-t  | MT20   | 5.0 | 6.0 | 3.75 | 2.25 |
| X  | BMWW-t  | MT20   | 5.0 | 8.0 | 2.50 | 3.75 |
| Y  | BMWW-t  | MT20   | 5.0 | 6.0 |      |      |
| Z  | BMV1+p  | MT20   | 3.0 | 6.0 |      |      |

**SPECIFIED CONCENTRATED LOADS (LBS)**

| JT | LOC.    | LC1 | MAX- | MAX+ | FACE | DIR. | TYPE  | HEEL | CONN. |
|----|---------|-----|------|------|------|------|-------|------|-------|
| AA | 28-7-12 | -76 | -76  | ---  | BACK | VERT | TOTAL | ---  | C1    |
| AB | 30-7-12 | -76 | -76  | ---  | BACK | VERT | TOTAL | ---  | C1    |
| AC | 32-7-12 | -76 | -76  | ---  | BACK | VERT | TOTAL | ---  | C1    |
| AD | 28-7-12 | -21 | -21  | ---  | BACK | VERT | TOTAL | ---  | C1    |
| AE | 30-7-12 | -21 | -21  | ---  | BACK | VERT | TOTAL | ---  | C1    |
| AF | 32-7-12 | -21 | -21  | ---  | BACK | VERT | TOTAL | ---  | C1    |
| AG | 36-7-12 | -21 | -21  | ---  | BACK | VERT | TOTAL | ---  | C1    |

**CONNECTION REQUIREMENTS**

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

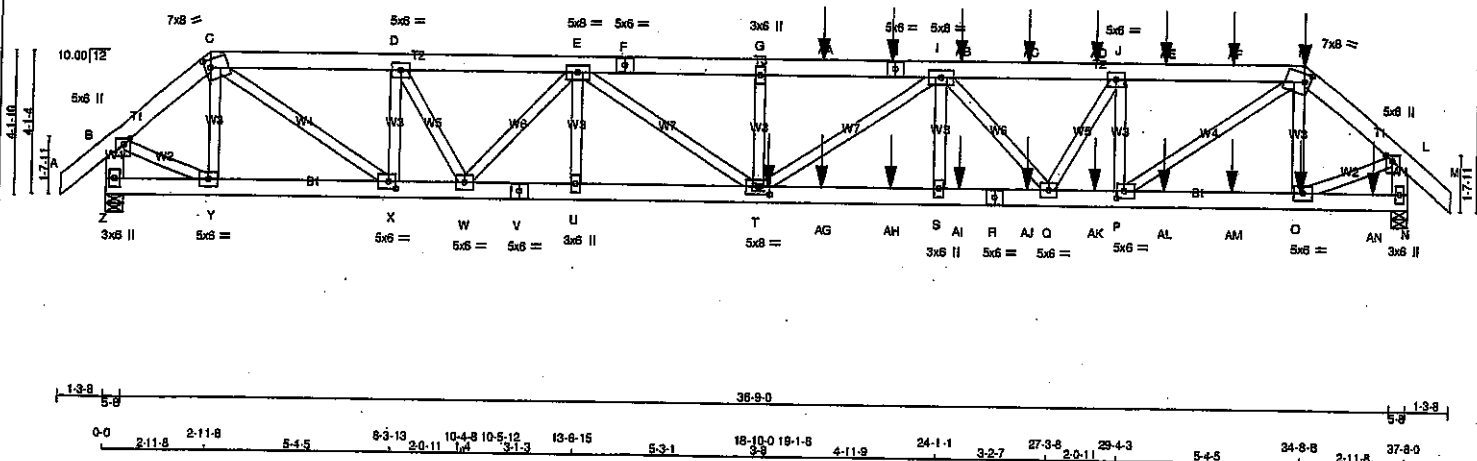
**NOTES-** (1)

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



Structural component only  
DWG# T-2108032 7/12

DRWG NO.

[illegible]

**TOTAL WEIGHT = 2 X 228 = 452**

JSI GRIP= 0.89 (C) (INPUT = 0.90 )  
JSI METAL= 0.91 (V) (INPUT = 1.00 )



Structural component only  
DWG# T-2108072 *1/2*

CONTINUED ON PAGE 2

|                                 |                            |                      |                 |                                  |          |
|---------------------------------|----------------------------|----------------------|-----------------|----------------------------------|----------|
| JOB NAME<br><b>417418</b>       | TRUSS NAME<br><b>T14Z2</b> | QUANTITY<br><b>1</b> | PLY<br><b>2</b> | JOB DESC. <b>GREENPARK HOMES</b> | DRWG NO. |
| Tamarack Roof Truss, Burlington |                            |                      |                 | TRUSS DESC.                      |          |

Version 8.420 S Jan 21 2021 MITek Industries, Inc. Sat Mar 20 07:47:57 2021 Page 2  
ID:SKJDI?6mu4YipKXoNwwHk5za4YO-DdrJi76o mnQ5XIOBKEd79 oTICB5tBuhC1zZ70G

**PLATES (table is in inches)**

| JT         | TYPE     | PLATES | W   | LEN | Y    | X    |
|------------|----------|--------|-----|-----|------|------|
| B          | TMVW+p   | MT20   | 5.0 | 6.0 | 2.00 | 2.25 |
| C          | TTWW-m   | MT20   | 7.0 | 8.0 | 2.75 | 1.75 |
| D          | TMVW-t   | MT20   | 5.0 | 6.0 |      |      |
| E          | TMVWVW-t | MT20   | 5.0 | 8.0 |      |      |
| F          | TS-t     | MT20   | 5.0 | 6.0 |      |      |
| G          | TMVW+w   | MT20   | 3.0 | 6.0 |      |      |
| H          | TS-t     | MT20   | 5.0 | 6.0 |      |      |
| I          | TMVWVW-t | MT20   | 5.0 | 8.0 |      |      |
| J          | TMVW-t   | MT20   | 5.0 | 6.0 |      |      |
| K          | TTWW-m   | MT20   | 7.0 | 8.0 | 2.75 | 1.75 |
| L          | TMVW+p   | MT20   | 5.0 | 6.0 | 2.00 | 2.25 |
| N          | BMV1+p   | MT20   | 3.0 | 6.0 |      |      |
| O, Q, W, Y |          |        |     |     |      |      |
| O          | BMVW-t   | MT20   | 5.0 | 6.0 |      |      |
| P          | BMVW-t   | MT20   | 5.0 | 6.0 | 2.50 | 2.50 |
| R          | BS-t     | MT20   | 5.0 | 6.0 |      |      |
| S          | BMVW+w   | MT20   | 3.0 | 6.0 |      |      |
| T          | BMVWVW-t | MT20   | 5.0 | 8.0 | 2.75 | 4.00 |
| U          | BMVW+w   | MT20   | 3.0 | 6.0 |      |      |
| V          | BS-t     | MT20   | 5.0 | 6.0 |      |      |
| X          | BMVW-t   | MT20   | 5.0 | 6.0 | 2.50 | 2.50 |
| Z          | BMV1+p   | MT20   | 3.0 | 6.0 |      |      |

**SPECIFIED CONCENTRATED LOADS (LBS)**

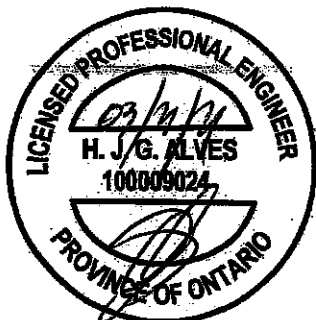
| JT | LOC.    | LC1   | MAX-  | MAX+ | FACE  | DIR. | TYPE  | HEEL | CONN. |
|----|---------|-------|-------|------|-------|------|-------|------|-------|
| H  | 22-7-12 | -76   | -76   | ---  | FRONT | VERT | TOTAL | ---  | C1    |
| K  | 34-8-8  | -30   | -30   | ---  | FRONT | VERT | DEAD  | ---  | C1    |
| K  | 34-8-8  | -82   | -82   | ---  | FRONT | VERT | TOTAL | ---  | C1    |
| K  | 34-8-8  | -125  | -125  | ---  | FRONT | VERT | SNOW  | ---  | C1    |
| O  | 34-7-12 | -21   | -21   | ---  | FRONT | VERT | TOTAL | ---  | C1    |
| T  | 19-1-8  | -1236 | -1236 | ---  | FRONT | VERT | TOTAL | ---  | C1    |
| AA | 20-7-12 | -76   | -76   | ---  | FRONT | VERT | TOTAL | ---  | C1    |
| AB | 24-7-12 | -76   | -76   | ---  | FRONT | VERT | TOTAL | ---  | C1    |
| AC | 26-7-12 | -76   | -76   | ---  | FRONT | VERT | TOTAL | ---  | C1    |
| AD | 28-7-12 | -76   | -76   | ---  | FRONT | VERT | TOTAL | ---  | C1    |
| AE | 30-7-12 | -76   | -76   | ---  | FRONT | VERT | TOTAL | ---  | C1    |
| AF | 32-7-12 | -76   | -76   | ---  | FRONT | VERT | TOTAL | ---  | C1    |
| AG | 20-7-12 | -21   | -21   | ---  | FRONT | VERT | TOTAL | ---  | C1    |
| AH | 22-7-12 | -21   | -21   | ---  | FRONT | VERT | TOTAL | ---  | C1    |
| AI | 24-7-12 | -21   | -21   | ---  | FRONT | VERT | TOTAL | ---  | C1    |
| AJ | 26-7-12 | -21   | -21   | ---  | FRONT | VERT | TOTAL | ---  | C1    |
| AK | 28-7-12 | -21   | -21   | ---  | FRONT | VERT | TOTAL | ---  | C1    |
| AL | 30-7-12 | -21   | -21   | ---  | FRONT | VERT | TOTAL | ---  | C1    |
| AM | 32-7-12 | -21   | -21   | ---  | FRONT | VERT | TOTAL | ---  | C1    |
| AN | 36-7-12 | -21   | -21   | ---  | FRONT | VERT | TOTAL | ---  | C1    |

**CONNECTION REQUIREMENTS**

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

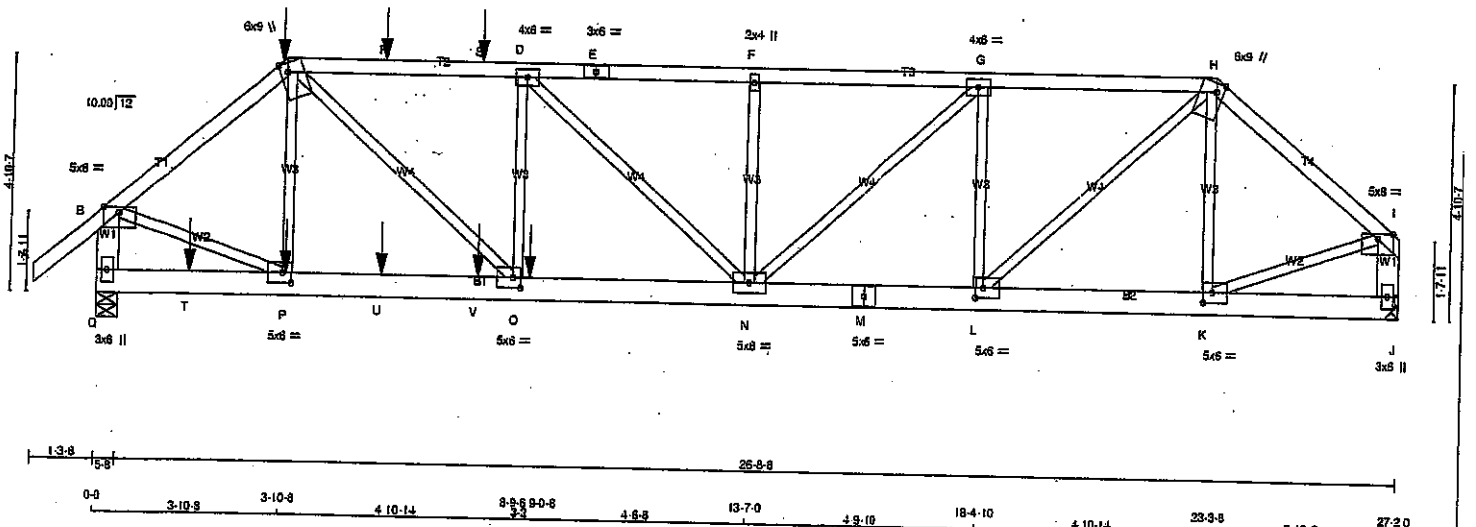
**NOTES-** (1)

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



Structural component only  
DWG# T-2108072 *ML*

|                                                                           |                          |                      |                 |                                                                                    |          |
|---------------------------------------------------------------------------|--------------------------|----------------------|-----------------|------------------------------------------------------------------------------------|----------|
| JOB NAME<br><b>417406</b>                                                 | TRUSS NAME<br><b>T15</b> | QUANTITY<br><b>1</b> | PLY<br><b>1</b> | JOB DESC.<br><b>GREENPARK HOMES</b>                                                | DRWG NO. |
| Tamarack Roof Truss, Burlington                                           |                          |                      |                 | Version 8.420 S Jan 21 2021 MITek Industries, Inc. Fri Mar 19 17:34:17 2021 Page 1 |          |
| ID:SKJDJ76mu4YlpKXoNwwHk5za4YO-wkwRuQ0CvmdVsNmN7BTVPzFmPvXAnzRzsMSMTpzZJW |                          |                      |                 | Scale = 1/4"=1'-0"                                                                 |          |



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

DRY: SEASONED LUMBER.

#### PLATES (table in inches)

| JT | TYPE   | PLATES | W   | LEN | Y         | X    |
|----|--------|--------|-----|-----|-----------|------|
| B  | TMVW-p | MT20   | 5.0 | 8.0 | Edge      |      |
| C  | TTWW-m | MT20   | 6.0 | 9.0 | Edge 1.75 |      |
| D  | TMVW-t | MT20   | 4.0 | 6.0 |           |      |
| E  | TS-t   | MT20   | 3.0 | 6.0 |           |      |
| F  | TMVW-w | MT20   | 2.0 | 4.0 |           |      |
| G  | TMVW-t | MT20   | 4.0 | 6.0 |           |      |
| H  | TTWW-m | MT20   | 6.0 | 9.0 | Edge 1.75 |      |
| I  | TMVW-p | MT20   | 5.0 | 8.0 | Edge      |      |
| J  | BMV1-p | MT20   | 3.0 | 6.0 |           |      |
| K  | BMVW-t | MT20   | 5.0 | 6.0 | 2.50      | 2.25 |
| L  | BMVW-t | MT20   | 5.0 | 6.0 | 2.50      | 2.00 |
| M  | BS-t   | MT20   | 5.0 | 8.0 |           |      |
| N  | BMVW-t | MT20   | 5.0 | 6.0 |           |      |
| O  | BMVW-t | MT20   | 5.0 | 6.0 | 2.50      | 2.00 |
| P  | BMVW-t | MT20   | 5.0 | 6.0 | 2.50      | 2.25 |
| Q  | BMV1-p | MT20   | 3.0 | 6.0 |           |      |

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

#### NOTES (1)

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

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

| BEARINGS | FACTORED GROSS REACTION | MAXIMUM FACTORED GROSS REACTION | INPUT BRG  | REQD BRG |
|----------|-------------------------|---------------------------------|------------|----------|
| JT       | VERT                    | DOWN                            | IN-SX      | IN-SX    |
| Q        | 2889                    | 0                               | 5-8        | 5-8      |
| J        | 1904                    | 0                               | MECHANICAL |          |

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

#### UNFACTORED REACTIONS

| 1ST LOOSE | MAX. MIN. COMPONENT REACTIONS |        |      |            |      |       |      |
|-----------|-------------------------------|--------|------|------------|------|-------|------|
| JT        | COMBINED                      | SNOW   | LIVE | PERM. LIVE | WIND | DEAD  | SOIL |
| Q         | 1883                          | 1261.0 | 0.0  | 0.0        | 0.0  | 621.0 | 0.0  |
| J         | 1345                          | 889.0  | 0.0  | 0.0        | 0.0  | 458.0 | 0.0  |

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

#### BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 2.88 FT.  
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR RIGID CEILING DIRECTLY APPLIED.

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

#### LOADING

TOTAL LOAD CASES: (4)

| CHORDS |             |                           |                | WEBS  |             |            |                     |
|--------|-------------|---------------------------|----------------|-------|-------------|------------|---------------------|
| MEMB.  | FORCE (LBS) | FACTORED VERT. LOAD (LBS) | MAX. (PLF)     | MEMB. | FORCE (LBS) | MAX. (PLF) | MAX. FACTORED (LBS) |
| FR-TO  |             |                           |                | FR-TO |             |            |                     |
| A-B    | 0.41        | -91.8                     | -91.8 0.14 (1) | 10.00 | P-C         | -480.0     | 0.16 (1)            |
| B-C    | -2661.0     | -91.8                     | -91.8 0.41 (1) | 3.83  | C-O         | 0.2249     | 0.56 (1)            |
| C-R    | -3889.0     | -91.8                     | -91.8 0.75 (1) | 2.89  | O-D         | -458.0     | 0.18 (1)            |
| R-S    | -3889.0     | -91.8                     | -91.8 0.75 (1) | 2.89  | D-N         | -248.0     | 0.19 (1)            |
| S-D    | -3889.0     | -91.8                     | -91.8 0.75 (1) | 2.89  | N-F         | -385.0     | 0.13 (1)            |
| D-E    | -3510.0     | -91.8                     | -91.8 0.70 (1) | 3.02  | F-G         | 0.943      | 0.23 (1)            |
| E-F    | -3510.0     | -91.8                     | -91.8 0.70 (1) | 3.17  | G-H         | -1145.0    | 0.39 (1)            |
| F-G    | -3510.0     | -91.8                     | -91.8 0.70 (1) | 3.17  | H-I         | 0.1821     | 0.45 (1)            |
| G-H    | -2822.0     | -91.8                     | -91.8 0.52 (1) | 3.60  | I-J         | -352.0     | 0.12 (1)            |
| H-I    | -1937.0     | -91.8                     | -91.8 0.35 (1) | 4.46  | J-K         | 0.2132     | 0.53 (1)            |
| I-J    | -2841.0     | 0.0                       | 0.0 0.19 (1)   | 8.36  | K-L         | 0.1552     | 0.38 (1)            |
| J-K    | -1879.0     | 0.0                       | 0.0 0.14 (1)   | 7.28  |             |            |                     |
| Q-T    | 0.0         | -18.5                     | -18.5 0.07 (4) | 10.00 |             |            |                     |
| T-P    | 0.0         | -18.5                     | -18.5 0.07 (4) | 10.00 |             |            |                     |
| P-U    | 0.2028      | -18.5                     | -18.5 0.33 (1) | 10.00 |             |            |                     |
| U-V    | 0.2028      | -18.5                     | -18.5 0.33 (1) | 10.00 |             |            |                     |
| V-O    | 0.2028      | -18.5                     | -18.5 0.33 (1) | 10.00 |             |            |                     |
| O-N    | 0.3689      | -18.5                     | -18.5 0.55 (1) | 10.00 |             |            |                     |
| N-M    | 0.2822      | -18.5                     | -18.5 0.42 (1) | 10.00 |             |            |                     |
| M-L    | 0.2822      | -18.5                     | -18.5 0.42 (1) | 10.00 |             |            |                     |
| L-K    | 0.1476      | -18.5                     | -18.5 0.23 (1) | 10.00 |             |            |                     |
| K-J    | 0.0         | -18.5                     | -18.5 0.05 (4) | 10.00 |             |            |                     |

#### SPECIFIED CONCENTRATED LOADS (LBS)

| JT | LOC.   | LC1  | MAX. | FACE | DIR. | TYPE  | HEEL | CONN. |
|----|--------|------|------|------|------|-------|------|-------|
| C  | 3-10-8 | -157 | -157 | BACK | VERT | TOTAL |      | C1    |
| O  | 9-0-8  | -691 | -691 | BACK | VERT | TOTAL |      | C1    |
| P  | 3-11-4 | -14  | -14  | BACK | VERT | TOTAL |      | C1    |
| R  | 5-11-4 | -59  | -59  | BACK | VERT | TOTAL |      | C1    |
| S  | 7-11-4 | -59  | -59  | BACK | VERT | TOTAL |      | C1    |
| T  | 1-11-4 | -14  | -14  | BACK | VERT | TOTAL |      | C1    |
| U  | 5-11-4 | -14  | -14  | BACK | VERT | TOTAL |      | C1    |
| V  | 7-11-4 | -14  | -14  | BACK | VERT | TOTAL |      | C1    |

#### CONNECTION REQUIREMENTS

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

#### DESIGN CRITERIA

##### SPECIFIED LOADS:

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

SPACING = 24.0 IN/C/C

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

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

THIS DESIGN COMPLIES WITH:

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

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

ALLOWABLE DEFL.(LL) = L/360 (0.91")  
CALCULATED VERT. DEFL.(LL) = U/999 (0.13")  
ALLOWABLE DEFL.(TL) = L/360 (0.91")  
CALCULATED VERT. DEFL.(TL) = U/999 (0.25")

CSI: TO=0.75/1.00 (C-D:1), BC=0.55/1.00 (N-O:1), WB=0.56/1.00 (C-O:1), SL=0.33/1.00 (C-D:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE HEELS OFF

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

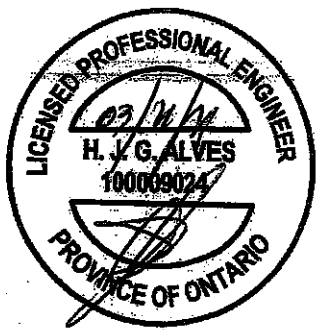
#### NAIL VALUES

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

PLATE PLACEMENT TOL = 0.250 inches

PLATE ROTATION TOL = 5.0 Deg.

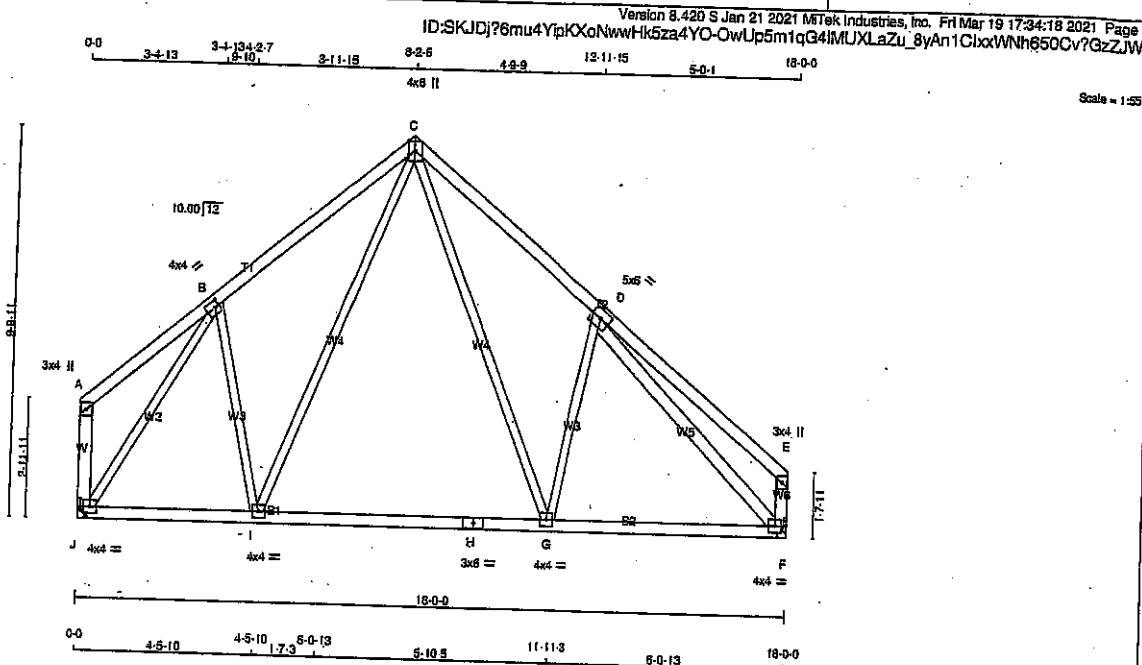
JSI GRIP= 0.90 (O) (INPUT = 0.90)  
JSI METAL= 0.71 (M) (INPUT = 1.00)



Structural component only  
DWG# T-2108033

|                           |                          |                      |                 |                                     |             |          |
|---------------------------|--------------------------|----------------------|-----------------|-------------------------------------|-------------|----------|
| JOB NAME<br><b>417406</b> | TRUSS NAME<br><b>T16</b> | QUANTITY<br><b>2</b> | PLY<br><b>1</b> | JOB DESC.<br><b>GREENPARK HOMES</b> | TRUSS DESC. | DRWG NO. |
|---------------------------|--------------------------|----------------------|-----------------|-------------------------------------|-------------|----------|

Tamarack Roof Truss, Burlington



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

DRY: SEASONED LUMBER.

| PLATES (table is in inches) |        |        |     |     |           |
|-----------------------------|--------|--------|-----|-----|-----------|
| JT                          | TYPE   | PLATES | W   | LEN | Y X       |
| A                           | TMV+p  | MT20   | 3.0 | 4.0 |           |
| B                           | TMWW-t | MT20   | 4.0 | 4.0 | 2.00 1.25 |
| C                           | TTWW+p | MT20   | 4.0 | 8.0 | Edge      |
| D                           | TMWW-t | MT20   | 5.0 | 8.0 |           |
| E                           | TMV+p  | MT20   | 3.0 | 4.0 |           |
| F                           | BMVW-t | MT20   | 4.0 | 4.0 |           |
| G                           | BMWW-t | MT20   | 4.0 | 4.0 |           |
| H                           | BS-t   | MT20   | 3.0 | 8.0 |           |
| I                           | BMVW-t | MT20   | 4.0 | 4.0 |           |
| J                           | BMVW-t | MT20   | 4.0 | 4.0 |           |

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

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

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

|    | FACTORED GROSS REACTION | MAXIMUM FACTORED GROSS REACTION | INPUT BRG | REQD BRG |
|----|-------------------------|---------------------------------|-----------|----------|
| JT | VERT                    | HORZ                            | DOWN      | HORZ     |
| F  | 992                     | 0                               | 0         | 0        |
| J  | 992                     | 0                               | 0         | 0        |

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

### UNFACTORED REACTIONS

| JT | 1ST CASE COMBINED | MAX. MIN. COMPONENT REACTIONS | SNOW | LIVE | PERM. LIVE | WIND | DEAD  | SOIL |
|----|-------------------|-------------------------------|------|------|------------|------|-------|------|
| F  | 702               | 461'0                         | 0'0  | 0'0  | 0'0        | 0'0  | 241'0 | 0'0  |
| J  | 702               | 461'0                         | 0'0  | 0'0  | 0'0        | 0'0  | 241'0 | 0'0  |

### BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 6.23 FT.  
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR RIGID CEILING DIRECTLY APPLIED.  
ALL PITCH BREAKS AND PERIMETER CORNER JOINTS MUST BE Laterally RESTRAINED.

### LOADING

TOTAL LOAD CASES: (4)

| CHORDS |                           |                           |                          | WEBS  |                           |                          |                           |
|--------|---------------------------|---------------------------|--------------------------|-------|---------------------------|--------------------------|---------------------------|
| MEMB.  | MAX. FACTORED FORCE (LBS) | FACTORED VERT. LOAD (PLF) | MAX. UNBRACED LENGTH (L) | MEMB. | MAX. FACTORED FORCE (LBS) | MAX. UNBRACED LENGTH (L) | MAX. FACTORED FORCE (LBS) |
| FR-TO  |                           | FROM TO                   | CSI (LC)                 | FR-TO |                           | FROM TO                  | CSI (LC)                  |
| A-B    | 0'38                      | -91.8                     | -91.8 0.28 (1)           | 10.00 | G-G                       | 0'478                    | 0.11 (1)                  |
| B-C    | -714'0                    | -91.8                     | -91.8 0.25 (1)           | 6.25  | G-D                       | -313'0                   | 0.17 (1)                  |
| C-D    | -862'0                    | -91.8                     | -91.8 0.29 (1)           | 6.23  | D-F                       | -1056'0                  | 0.75 (1)                  |
| D-E    | 0'35                      | -91.8                     | -91.8 0.38 (1)           | 10.00 | I-C                       | 0'182                    | 0.04 (1)                  |
| J-A    | -95'0                     | 0.0                       | 0.0 0.02 (1)             | 7.81  | B-I                       | -48'47                   | 0.03 (1)                  |
| F-E    | -167'0                    | 0.0                       | 0.0 0.02 (1)             | 7.81  | J-B                       | -1023'0                  | 0.70 (1)                  |
| J-I    | 0'538                     | -18.5                     | -18.5 0.20 (4)           | 10.00 |                           |                          |                           |
| I-H    | 0'462                     | -18.5                     | -18.5 0.24 (4)           | 10.00 |                           |                          |                           |
| H-G    | 0'462                     | -18.5                     | -18.5 0.24 (4)           | 10.00 |                           |                          |                           |
| G-F    | 0'709                     | -18.5                     | -18.5 0.26 (4)           | 10.00 |                           |                          |                           |

TOTAL WEIGHT = 2 X 89 = 179 lb

### DESIGN CRITERIA

#### SPECIFIED LOADS:

|                       |               |
|-----------------------|---------------|
| TOP CH.               | LL = 25.8 PSF |
| DL = 6.0 PSF          |               |
| BOT CH.               | LL = 0.0 PSF  |
| DL = 7.4 PSF          |               |
| TOTAL LOAD = 39.0 PSF |               |

#### SPACING = 24.0 IN/C

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

#### THIS DESIGN COMPLIES WITH:

- PART 9 OF NBCC 2015, ABC 2019.
- PART 9 OF 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 25.8 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = L/360 (0.60")  
CALCULATED VERT. DEFL.(LL) = L/999 (0.02")  
ALLOWABLE DEFL.(TL) = L/360 (0.60")  
CALCULATED VERT. DEFL.(TL) = L/999 (0.07")

CSI: TC=0.35/1.00 (D-E-1), BC=0.26/1.00 (F-G-4), WB=0.75/1.00 (D-F-1), SS=0.17/1.00 (C-D-1)

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

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE HEELS OFF

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

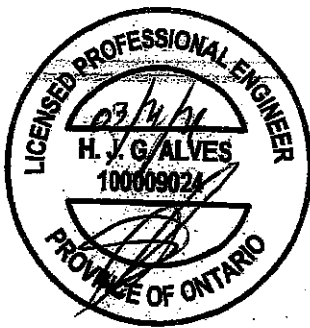
#### NAIL VALUES

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP = 0.82 (F) (INPUT = 0.90)  
JSI METAL = 0.34 (B) (INPUT = 1.00)

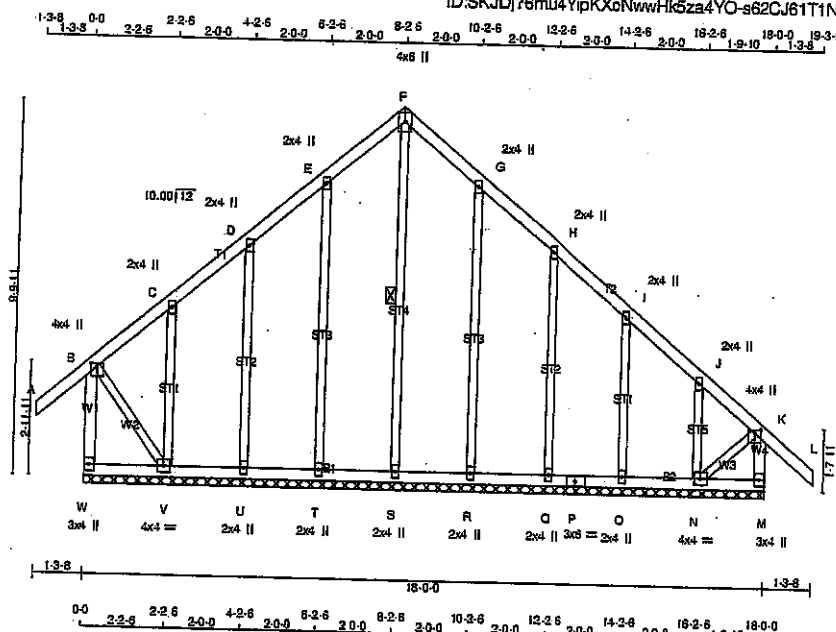


Structural component only  
DWG# T-2108034

**Tamarack Roof Truss, Burlington**

Version 8.420 S Jan 21 2021 MITek Industries, Inc. Fri Mar 19 17:34:19 2021 Page 1  
ID:SKJDj76mu4YipKXcNwwHk5za4YO-s62CJ61T1NID5gwm7cVNUOKGfKxPxPFJqxTXiz7,MA

Scale = 1:57.2



## N. L. G. A. RULES

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

**PLATES** (table is in inches)

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

NOTES- (1)

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

THIS TRUSS DESIGNED FOR CONTINUOUS BEARINGS

THIS TRUSS REQUIRES RIGID SHEATHING ON EXPOSED FACE

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

## BRACING

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

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

ALL PITCH BREAKS AND PERIMETER CORNER JOINTS MUST BE Laterally RESTRAINED

1 LATERAL BRACE(S) AT 1.2 LENGTH OF F-S.

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

## LOADING

**TOTAL LOAD CASES: (4)**

| CHORDS        |             |                  |           | WEBS                |       |             |               |          |
|---------------|-------------|------------------|-----------|---------------------|-------|-------------|---------------|----------|
| MAX. FACTORED |             | FACTORED         |           | MAX. FACTORED       |       |             |               |          |
| MEMB.         | FORCE (LBS) | VERT. LOAD (LBS) | LC1 (PLF) | MAX. UNBRAC. LENGTH | MEMB. | FORCE (LBS) | MAX. CSI (LC) |          |
| FR-TO         |             | FROM             | TO        |                     | FR-TO |             |               |          |
| A-B           | 0.41        | -91.8            | -91.8     | 0.13 (f)            | 10.00 | S-F         | -139.0        | 0.09 (f) |
| B-C           | -13.0       | -91.8            | -91.8     | 0.06 (f)            | 6.25  | T-E         | -210.0        | 0.27 (f) |
| C-D           | -23.0       | -91.8            | -91.8     | 0.06 (f)            | 6.25  | U-D         | -169.0        | 0.12 (f) |
| D-E           | -12.0       | -91.8            | -91.8     | 0.05 (f)            | 6.25  | V-C         | -211.0        | 0.17 (f) |
| E-F           | -24.0       | -91.8            | -91.8     | 0.05 (f)            | 6.25  | R-G         | -209.0        | 0.27 (f) |
| F-G           | -24.0       | -91.8            | -91.8     | 0.05 (f)            | 6.25  | Q-H         | -173.0        | 0.12 (f) |
| G-H           | -12.0       | -91.8            | -91.8     | 0.05 (f)            | 6.25  | O-I         | -194.0        | 0.07 (f) |
| H-I           | -21.0       | -91.8            | -91.8     | 0.05 (f)            | 6.25  | N-J         | -111.0        | 0.02 (f) |
| I-J           | -17.0       | -91.8            | -91.8     | 0.05 (f)            | 6.25  | B-V         | 0.30          | 0.01 (f) |
| J-K           | -56.0       | -91.8            | -91.8     | 0.12 (f)            | 6.25  | N-K         | 0.28          | 0.01 (f) |
| K-L           | 0.41        | -91.8            | -91.8     | 0.13 (f)            | 10.00 |             |               |          |
| L-M           | -243.0      | 0.0              | 0.0       | 0.04 (f)            | 7.81  |             |               |          |
| W-B           | -285.0      | 0.0              | 0.0       | 0.03 (f)            | 7.81  |             |               |          |
| M-K           |             |                  |           |                     |       |             |               |          |
| W-V           | 0.0         | -18.5            | -18.5     | 0.02 (4)            | 10.00 |             |               |          |
| U-U           | 0.15        | -18.5            | -18.5     | 0.02 (4)            | 10.00 |             |               |          |
| V-T           | 0.12        | -18.5            | -18.5     | 0.02 (4)            | 10.00 |             |               |          |
| T-S           | 0.10        | -18.5            | -18.5     | 0.02 (4)            | 10.00 |             |               |          |
| S-R           | 0.10        | -18.5            | -18.5     | 0.01 (4)            | 10.00 |             |               |          |
| R-Q           | 0.12        | -18.5            | -18.5     | 0.02 (4)            | 10.00 |             |               |          |
| Q-P           | 0.15        | -18.5            | -18.5     | 0.02 (4)            | 10.00 |             |               |          |
| P-O           | 0.15        | -18.5            | -18.5     | 0.02 (4)            | 10.00 |             |               |          |
| O-N           | 0.19        | -18.5            | -18.5     | 0.02 (4)            | 10.00 |             |               |          |
| N-M           | 0.0         | -18.5            | -18.5     | 0.02 (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, ABC 2019
- PART 9 OF OBC 2012 (2019 AMENDMENT)
- CSA 086-14
- TPIC 2014

### DESIGN ASSUMPTIONS

-OVERHANG NOT TO BE ALTERED OR CUT OFF

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

CSI: TC=0.13/1.00 (K-L:1), BG=0.02/1.00 (U-V:4),  
WB=0.27/1.00 (E-T:1), SS=0.08/1.00 (K-L:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

### NAIL VALUES

| PLATE | GRIP(DRY)<br>(PSI) |     | SHEAR<br>(PLI) |     | SECTION<br>(PLI) |      |
|-------|--------------------|-----|----------------|-----|------------------|------|
|       | MAX                | MIN | MAX            | MIN | MAX              | MIN  |
| MT20  | 650                | 371 | 1747           | 788 | 1987             | 1875 |

PLATE PLACEMENT TOL = 0.250 inches

PLATE ROTATION TOL = 5.0 Deg.

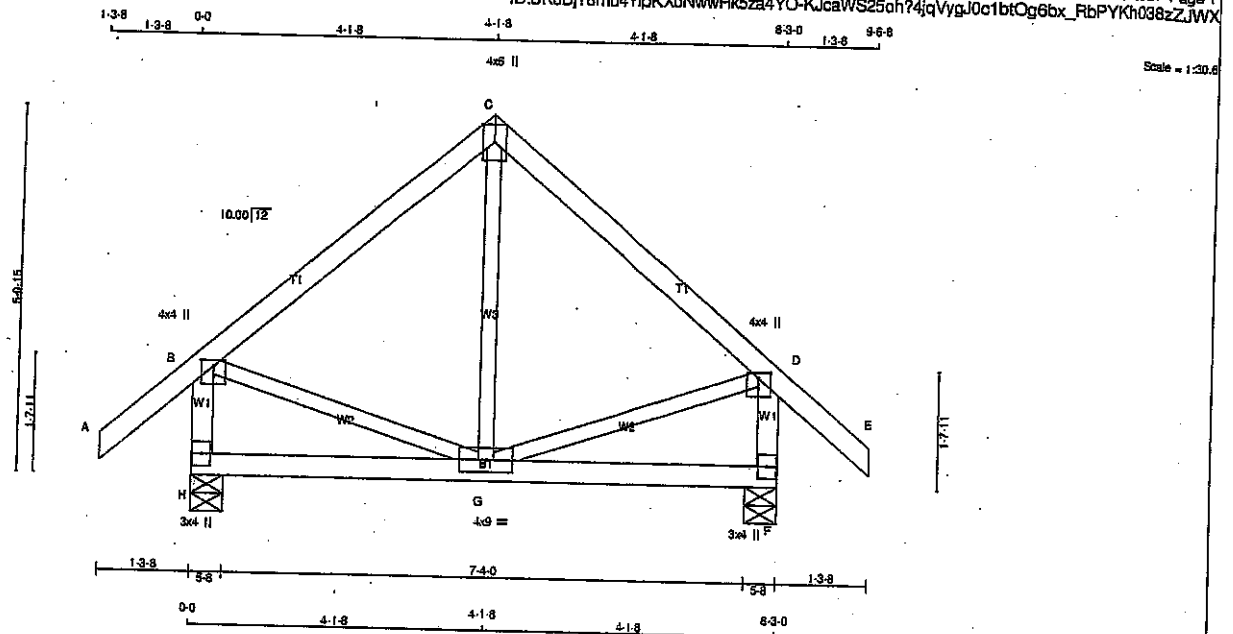
JSI GRIP= 0.49 (N) (INPUT= 0.50 )  
JSI METAL= 0.11 (C) (INPUT = 1.00 )



Structural component only  
DWG# T-2108035

|                                 |                          |                      |                 |                                     |          |
|---------------------------------|--------------------------|----------------------|-----------------|-------------------------------------|----------|
| JOB NAME<br><b>417406</b>       | TRUSS NAME<br><b>T17</b> | QUANTITY<br><b>1</b> | PLY<br><b>1</b> | JOB DESC.<br><b>GREENPARK HOMES</b> | DRWG NO. |
| Tamarack Roof Truss, Burlington |                          |                      |                 |                                     |          |

Version 8.420 S Jan 21 2021 Mitek Industries, Inc. Fri Mar 19 17:34:20 2021 Page 1  
ID:SKJDJ76mu4YipKXoNwwHk5za4YO-KJcaWS25oh74jqVygJ0c1btOg6bx\_RbPYKh088zZJWX



| LUMBER | CHORDS | SIZE | DRY  | 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 EXCEPT

DRY: SEASONED LUMBER.

#### PLATES (table is in inches)

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

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

#### NOTES - (1)

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

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

| JT | FACTORED GROSS REACTION |      | MAXIMUM FACTORED GROSS REACTION |      | INPUT BRG IN-SX | RECORD BRG IN-SX |
|----|-------------------------|------|---------------------------------|------|-----------------|------------------|
|    | VERT                    | HORZ | DOWN                            | HORZ |                 |                  |
| H  | 952                     | 0    | 952                             | 0    | 5-8             | 5-8              |
| F  | 681                     | 0    | 681                             | 0    | 5-8             | 5-8              |

#### UNFACTORED REACTIONS

| JT | 1ST CASE COMBINED | MAX/MIN COMPONENT REACTIONS |      |           |      | DEAD  | SOIL |
|----|-------------------|-----------------------------|------|-----------|------|-------|------|
|    |                   | SNOW                        | LIVE | PERM.LIVE | WIND |       |      |
| H  | 685               | 381.0                       | 0.0  | 0.0       | 0.0  | 304.0 | 0.0  |
| F  | 482               | 315.0                       | 0.0  | 0.0       | 0.0  | 167.0 | 0.0  |

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINTS 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)

| MEMB. | CHORDS MAX. FACTORED FORCE (LBS) | FACTORED VERT. LOAD (PLF) | LC1 MAX | MAX. UNBRAC LENGTH | MEMB. | WEBS MAX. FACTORED FORCE (LBS) | MAX. CSI (LC) |
|-------|----------------------------------|---------------------------|---------|--------------------|-------|--------------------------------|---------------|
|       |                                  |                           |         |                    |       |                                |               |
| FR-TO |                                  |                           |         |                    |       |                                |               |
| A-B   | 0.41                             | -91.8                     | -91.8   | 0.14 (1)           | 10.00 | G-C                            | 0.163         |
| B-C   | -410.0                           | -91.8                     | -91.8   | 0.30 (1)           | 8.25  | B-G                            | 0.331         |
| C-D   | -410.0                           | -91.8                     | -91.8   | 0.30 (1)           | 8.25  | G-D                            | 0.331         |
| D-E   | 0.41                             | -91.8                     | -91.8   | 0.14 (1)           | 10.00 |                                |               |
| H-B   | -679.0                           | 0.0                       | 0.0     | 0.08 (1)           | 7.81  |                                |               |
| F-D   | -679.0                           | 0.0                       | 0.0     | 0.08 (1)           | 7.81  |                                |               |
| H-G   | 0.0                              | -185.3                    | -79.0   | 0.36 (4)           | 10.00 |                                |               |
| G-F   | 0.0                              | -18.5                     | -18.5   | 0.26 (4)           | 10.00 |                                |               |

TOTAL WEIGHT = 39 lb

#### DESIGN CRITERIA

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

#### SPECIFIED LOADS:

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

SPACING = 24.0 IN. C/C

\*\*\* NON STANDARD GIRDER \*\*\*  
ADDT'L USER-DEFINED LOADS APPLIED TO ALL LOAD CASES.

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

#### THIS DESIGN COMPLIES WITH:

- PART 9 OF NBCC 2015, ABC 2019  
- PART 9 OF OBC 2012 (2019 AMENDMENT)  
- CSA 086-14  
- TPIC 2014

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

ALLOWABLE DEFL.(LL) = L/360 (0.28")  
CALCULATED VERT. DEFL.(LL) = L/999 (0.02")  
ALLOWABLE DEFL.(TL) = L/360 (0.28")  
CALCULATED VERT. DEFL.(TL) = L/999 (0.07")

CSI: TC=0.30/1.00 (C-D:1), BC=0.36/1.00 (G-H:4), WB=0.08/1.00 (B-G:1), SS=0.27/1.00 (G-H:4)

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.

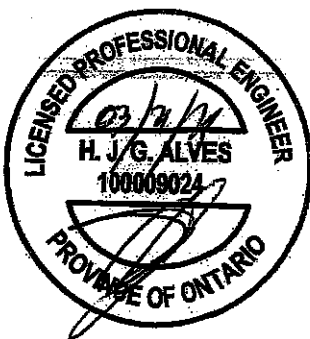
#### NAIL VALUES:

| PLATE GRIP(DRY) | SHEAR | SECTION |
|-----------------|-------|---------|
| (PSI)           | (PLI) | (PLI)   |
| MAX             | MIN   | MAX     |
| 650             | 971   | 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= 0.15 (B) (INPUT = 1.00)

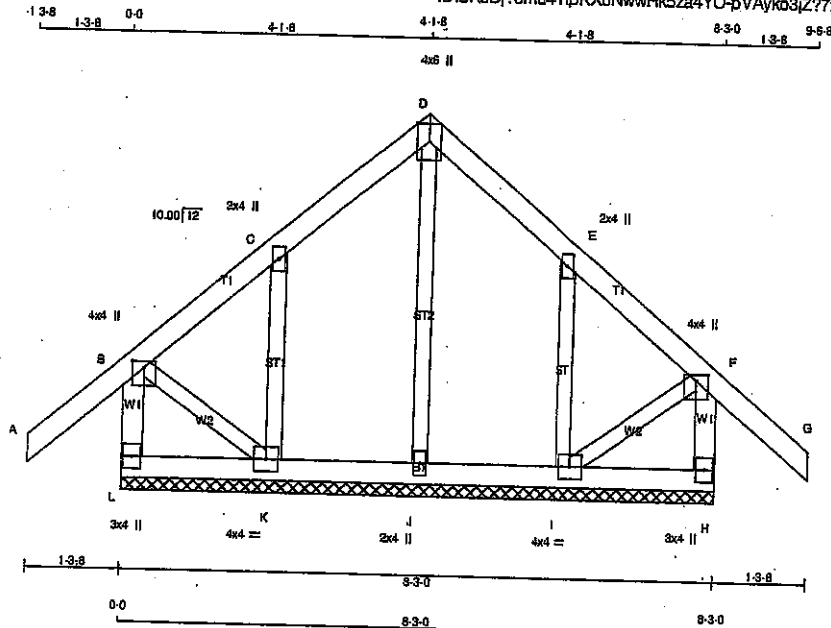


Structural component only  
DWG# T-2108036

|                           |                           |                      |                 |                                     |             |          |
|---------------------------|---------------------------|----------------------|-----------------|-------------------------------------|-------------|----------|
| JOB NAME<br><b>417406</b> | TRUSS NAME<br><b>T17G</b> | QUANTITY<br><b>1</b> | PLY<br><b>1</b> | JOB DESC.<br><b>GREENPARK HOMES</b> | TRUSS DESC. | DRWG NO. |
|---------------------------|---------------------------|----------------------|-----------------|-------------------------------------|-------------|----------|

Tamarack Roof Truss, Burlington

Version 8.420 S Jan 21 2021 MTek Industries, Inc. Fri Mar 19 17:34:21 2021 Page 1  
ID:SKJDj?6mu4YipKXoNwwHk5za4YO-pVAyko3Z77xL\_48E1XrapPc9W0QivOYn\_QZcbzJWW



Scale = 1:30.3

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

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

GABLE STUDS SPACED AT 2'-0" O.C.

#### PLATES (table is in inches)

| JT | TYPE    | PLATES | W   | LEN | Y    | X    |
|----|---------|--------|-----|-----|------|------|
| B  | TMVW+p  | MT20   | 4.0 | 4.0 | 1.00 | 2.00 |
| C  | TMW+w   | MT20   | 2.0 | 4.0 |      |      |
| D  | TTW+p   | MT20   | 4.0 | 6.0 | Edge |      |
| E  | TMW+w   | MT20   | 2.0 | 4.0 |      |      |
| F  | TMVW+p  | MT20   | 4.0 | 4.0 | 1.00 | 2.00 |
| H  | BMV1+p  | MT20   | 3.0 | 4.0 |      |      |
| I  | BMVW1-t | MT20   | 4.0 | 4.0 |      |      |
| J  | BMV1+w  | MT20   | 2.0 | 4.0 |      |      |
| K  | BMVW1-t | MT20   | 4.0 | 4.0 |      |      |
| L  | BMV1+p  | MT20   | 3.0 | 4.0 |      |      |

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

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) | VERT. LOAD (PLF) | LC1 MAX CSI (LC) | MEMB. | MAX. FACTORED FORCE (LBS) | MAX. UNBRACED LENGTH | FR-TO MAX CSI (LC) |
| L-B    | -226 / 0                  | 0.0              | 0.0 0.02 (1)     | J-D   | -126 / 0                  | 7.81                 | 0.05 (1)           |
| A-B    | 0 / 41                    | -91.8            | -91.8 0.13 (1)   | K-C   | -229 / 0                  | 6.25                 | 0.05 (1)           |
| B-C    | -11 / 0                   | -91.8            | -91.8 0.06 (1)   | I-E   | -229 / 0                  | 6.25                 | 0.05 (1)           |
| C-D    | -31 / 0                   | -91.8            | -91.8 0.06 (1)   | B-K   | 0 / 23                    | 6.25                 | 0.01 (1)           |
| D-E    | -31 / 0                   | -91.8            | -91.8 0.06 (1)   | I-F   | 0 / 23                    | 6.25                 | 0.01 (1)           |
| E-F    | -11 / 0                   | -91.8            | -91.8 0.06 (1)   |       |                           |                      |                    |
| F-G    | 0 / 41                    | -91.8            | -91.8 0.13 (1)   |       |                           |                      |                    |
| H-F    | -226 / 0                  | 0.0              | 0.0 0.02 (1)     |       |                           |                      |                    |
| L-K    | 0 / 0                     | -18.5            | -18.5 0.02 (4)   |       |                           |                      |                    |
| K-J    | 0 / 13                    | -18.5            | -18.5 0.02 (4)   |       |                           |                      |                    |
| J-I    | 0 / 13                    | -18.5            | -18.5 0.02 (4)   |       |                           |                      |                    |
| I-H    | 0 / 0                     | -18.5            | -18.5 0.02 (4)   |       |                           |                      |                    |

TOTAL WEIGHT = 40 lb

#### DESIGN CRITERIA

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

SPACING = 24.0 IN. C/C

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

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

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

CSI: TC=0.13/1.00 (F-G:1), BC=0.02/1.00 (J-K:4), WB=0.05/1.00 (D-J:1), SS=0.08/1.00 (F-G:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

NAIL VALUES  
PLATE GRIP(DRY) SHEAR SECTION  
(PSI) (PLI) (PLI)  
MAX MIN MAX MIN MAX MIN  
MT20 650 371 1747 768 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 = 1.00)

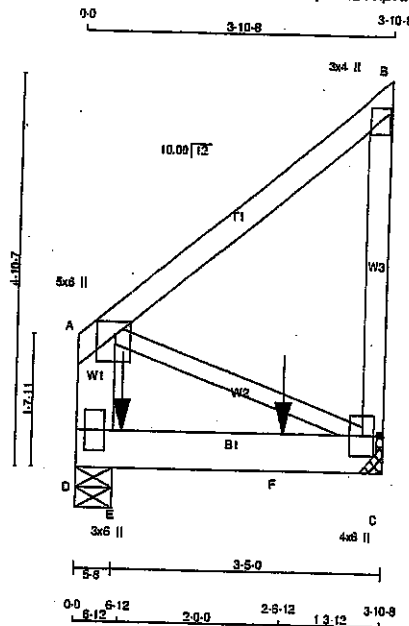


Structural component only  
DWG# T-2108037

|                                 |                          |                      |                 |                                     |          |
|---------------------------------|--------------------------|----------------------|-----------------|-------------------------------------|----------|
| JOB NAME<br><b>417406</b>       | TRUSS NAME<br><b>T18</b> | QUANTITY<br><b>1</b> | PLY<br><b>2</b> | JOB DESC.<br><b>GREENPARK HOMES</b> | DRWG NO. |
| Tamarack Roof Truss, Burlington |                          |                      |                 | TRUSS DESC.                         |          |

Version 8.420 S Jan 21 2021 MTek Industries, Inc. Fri Mar 19 17:34:21 2021 Page 1  
ID:SKJDJ?8mu4YipKXoNwwHk5za4YO-pVAyko3JZ77xL\_48E1XrapPb7Wwejv6Yn\_QZcbzJWW

Scale = 1:27.5



| LUMBER                |        |      |        |        |
|-----------------------|--------|------|--------|--------|
| N. L. G. A. RULES     | CHORDS | SIZE | LUMBER | DESCR. |
| A - B                 | 2x4    | DRY  | No.2   | SPF    |
| C - B                 | 2x4    | DRY  | No.2   | SPF    |
| D - A                 | 2x6    | 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    |                      |             |
| A-B 1                                    | 12                   | TOP         |
| B-C 1                                    | 12                   | TOP         |
| D-A 2                                    | 3                    | SIDE(72.0)  |
| BOTTOM CHORDS : (0.122"x3") SPIRAL NAILS |                      |             |
| D-C 2                                    | 12                   | SIDE(183.1) |
| WEBS : (0.122"x3") SPIRAL NAILS          |                      |             |
| 2x3 1                                    | 6                    |             |

NAILS TO BE DRIVEN FROM ONE SIDE ONLY.

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

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

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

#### PLATES (table is in inches)

| JT | TYPE    | PLATES | W   | LEN | Y    | X    |
|----|---------|--------|-----|-----|------|------|
| A  | TMVW+p  | MT20   | 5.0 | 6.0 | 2.00 | 2.25 |
| B  | TMV+p   | MT20   | 3.0 | 4.0 |      |      |
| C  | BMVW1+p | MT20   | 4.0 | 6.0 |      |      |
| D  | BMV1+p  | MT20   | 3.0 | 6.0 |      |      |

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

| JT | FACTORED GROSS REACTION |      | MAXIMUM FACTORED GROSS REACTION |      | INPUT |            | REQD |       |
|----|-------------------------|------|---------------------------------|------|-------|------------|------|-------|
|    | VERT                    | HORZ | DOWN                            | HORZ | BRG   | IN-SX      | BRG  | IN-SX |
| C  | 1000                    | 0    | 1000                            | 0    | 0     | MECHANICAL | 0    | 0     |
| D  | 1379                    | 0    | 1379                            | 0    | 0     | 5-8        | 5-8  | 5-8   |

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

#### UNFACTORED REACTIONS

| JT | 1ST CASE | MAX. MIN. COMPONENT REACTIONS | SNOW | LIVE | PERM. LIVE | WIND | DEAD | SOIL |
|----|----------|-------------------------------|------|------|------------|------|------|------|
| C  | 708      | 471                           | 0    | 0    | 0          | 0    | 235  | 0    |
| D  | 974      | 649                           | 0    | 0    | 0          | 0    | 325  | 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 (LBS) | VERT. LOAD | LC1 MAX | MEMB. | FORCE (LBS) | MAX      | LC1 |
| FR-TO  |             |            |         | FR-TO |             |          |     |
| A-B    | 0           | 0          | 0       | A-C   | 0           | 0        | 0   |
| C-B    | -178        | 0          | 0       |       |             |          |     |
| D-A    | -178        | 0          | 0       |       |             |          |     |
| D-E    | 0           | 0          | 0       |       |             |          |     |
| E-F    | 0           | 0          | 0       |       |             |          |     |
| F-C    | 0           | 0          | 0       |       |             |          |     |

#### SPECIFIED CONCENTRATED LOADS (LBS)

| JT | LOC.   | LC1  | MAX- | MAX+ | FACE | DIRL | TYPE  | HEEL | CONN. |
|----|--------|------|------|------|------|------|-------|------|-------|
| E  | 6-12   | -690 | -690 |      | BACK | VERT | TOTAL |      | C1    |
| F  | 2-6-12 | -687 | -687 |      | BACK | VERT | TOTAL |      | C1    |

#### CONNECTION REQUIREMENTS

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

TOTAL WEIGHT = 2 X 22 = 45 lb

#### DESIGN CRITERIA

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

SPACING = 24.0 IN O/C

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

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

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

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

CSI: TC=0.13/1.00 (A-B:1), EC=0.39/1.00 (C-D:1), WB=0.00/1.00 (A-C:1), SS=0.40/1.00 (C-D:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE RIGHT HEEL ONLY

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

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

PLATE PLACEMENT TOL = 0.250 inches

PLATE ROTATION TOL = 5.0 Deg.

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

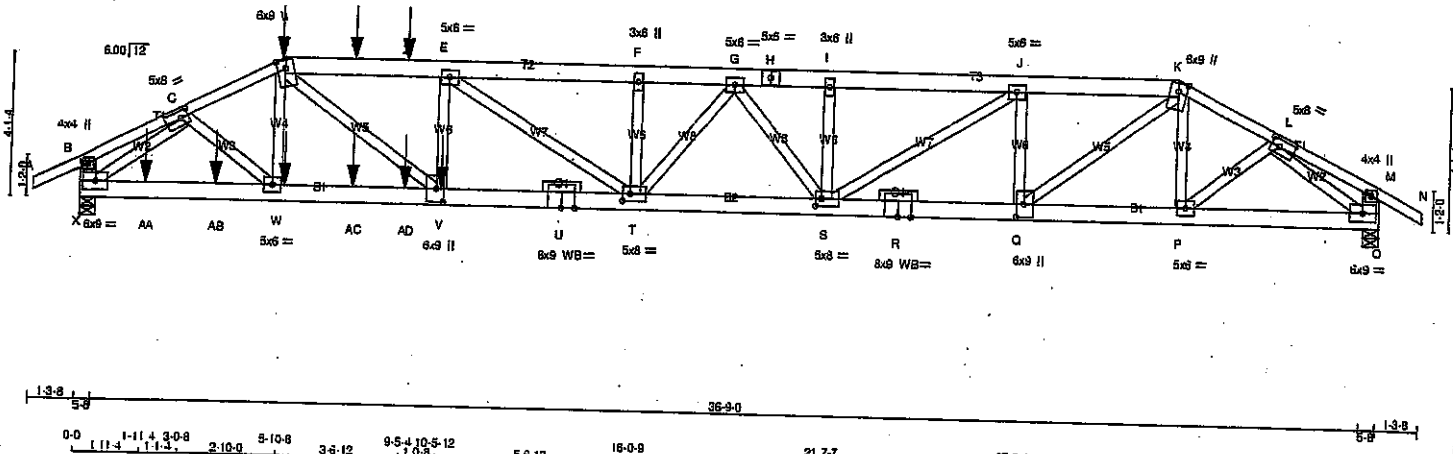
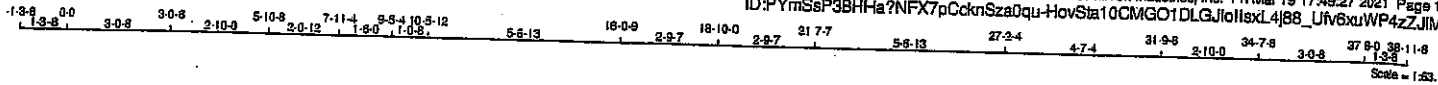


Structural component only  
DWG# T-2108038

| JOB NAME | TRUSS NAME | QUANTITY | PLY | JOB DESC.       | TRUSS DESC. | DRWG NO. |
|----------|------------|----------|-----|-----------------|-------------|----------|
| 417413   | T21Z       | 1        | 2   | GREENPARK HOMES |             |          |

Tamarack Roof Truss, Burlington

Version 8.420 S Jan 21 2021 Mitek Industries, Inc. Fri Mar 19 17:49:27 2021 Page 1  
ID:PYmSsP3BHHa?NFX7pCcknSza0qu-HovSta10CMGO1DLGJ0l0xL4j88\_UV6xuWP4zZJIM



| CHORDS | SIZE | LUMBER         | DESCR. |
|--------|------|----------------|--------|
| A - D  | 2x4  | DRY No.2       | SPF    |
| D - H  | 2x6  | DRY No.2       | SPF    |
| H - K  | 2x6  | DRY No.2       | SPF    |
| K - N  | 2x4  | DRY No.2       | SPF    |
| X - B  | 2x6  | DRY No.2       | SPF    |
| O - M  | 2x6  | DRY No.2       | SPF    |
| X - U  | 2x6  | DRY 2100F 1.8E | SPF    |
| U - R  | 2x6  | DRY 2100F 1.8E | SPF    |
| R - O  | 2x6  | DRY 2100F 1.8E | SPF    |

ALL WEBS 2x4 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                                |                      | SIDE(61.0)  |
| K-N 1 12                                |                      | TOP         |
| D-H 2 12                                |                      | SIDE(61.0)  |
| H-K 2 12                                |                      | TOP         |
| X-B 2 12                                |                      | TOP         |
| O-M 2 12                                |                      | TOP         |
| BOTTOM CHORDS: (0.122"x3") SPIRAL NAILS |                      |             |
| X-U 2 12                                |                      | SIDE(197.8) |
| U-R 2 12                                |                      | TOP         |
| R-O 2 12                                |                      | TOP         |
| WEBS: (0.122"x3") SPIRAL NAILS          |                      |             |
| 2x4 1 6                                 |                      | SIDE(868.9) |
| E-V 1 2                                 |                      |             |
| J-Q 1 2                                 |                      |             |

NAILS TO BE DRIVEN FROM ONE SIDE ONLY.

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

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

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

| BEARINGS | FACTORED GROSS REACTION | MAXIMUM FACTORED GROSS REACTION | INPUT BRG | REQD BRG |
|----------|-------------------------|---------------------------------|-----------|----------|
| JT       | VERT                    | DOWN                            | IN-SX     | IN-SX    |
| O        | 3467 0                  | 3467 0                          | 5-8       | 5-8      |
| X        | 5743 0                  | 5743 0                          | 5-8       | 5-8      |

| UNFACTORED REACTIONS | 1ST CASE      | MAX./MIN. COMPONENT REACTIONS      |
|----------------------|---------------|------------------------------------|
| JT                   | COMBINED      | SNOW LIVE PERM.LIVE WIND DEAD SOIL |
| O                    | 2446 1638 / 0 | 0 0 0 0 0 0                        |
| X                    | 4053 2709 / 0 | 0 0 0 0 0 0                        |

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

**BRACING**  
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 2.97 FT.  
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

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

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

| CHORDS | 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 / 28     | -91.8                     | -91.8                     | 0.07 (1)                  | 10.00 | W-D   | -796 / 0                  | 0.07 (1)                  |
| B-C    | -2 / 1     | -91.8                     | -91.8                     | 0.07 (1)                  | 10.00 | P-K   | -428 / 0                  | 0.04 (1)                  |
| C-D    | -9334 / 0  | -91.8                     | -91.8                     | 0.37 (1)                  | 2.97  | V-E   | -108 / 43                 | 0.01 (1)                  |
| D-Y    | -13685 / 0 | -91.8                     | -91.8                     | 0.47 (1)                  | 3.03  | Q-J   | -2417 / 0                 | 0.21 (1)                  |
| Y-Z    | -13685 / 0 | -91.8                     | -91.8                     | 0.47 (1)                  | 3.03  | D-V   | 0 / 8742                  | 0.60 (1)                  |
| Z-E    | -13685 / 0 | -91.8                     | -91.8                     | 0.47 (1)                  | 3.03  | Q-K   | 0 / 4067                  | 0.36 (1)                  |
| E-F    | -12747 / 0 | -91.8                     | -91.8                     | 0.41 (1)                  | 3.22  | S-J   | 0 / 3346                  | 0.30 (1)                  |
| F-G    | -12747 / 0 | -91.8                     | -91.8                     | 0.30 (1)                  | 3.30  | C-W   | 0 / 1661                  | 0.15 (1)                  |
| G-H    | -10798 / 0 | -91.8                     | -91.8                     | 0.32 (1)                  | 3.63  | X-C   | -8922 / 0                 | 0.75 (1)                  |
| H-I    | -10798 / 0 | -91.8                     | -91.8                     | 0.23 (1)                  | 3.63  | P-L   | 0 / 833                   | 0.07 (1)                  |
| I-J    | -10798 / 0 | -91.8                     | -91.8                     | 0.18 (1)                  | 3.56  | L-O   | -5220 / 0                 | 0.44 (1)                  |
| J-K    | -7993 / 0  | -91.8                     | -91.8                     | 0.16 (1)                  | 4.09  | E-T   | -1117 / 0                 | 0.31 (1)                  |
| K-L    | -5347 / 0  | -91.8                     | -91.8                     | 0.08 (1)                  | 10.00 | S-I   | -382 / 0                  | 0.03 (1)                  |
| L-M    | 0 / 7      | -91.8                     | -91.8                     | 0.07 (1)                  | 10.00 | T-F   | -424 / 0                  | 0.04 (1)                  |
| M-N    | 0 / 28     | 0.0                       | 0.0                       | 0.01 (1)                  | 7.81  | T-G   | 0 / 1507                  | 0.13 (1)                  |
| X-B    | -257 / 0   | 0.0                       | 0.0                       | 0.01 (1)                  | 7.81  | G-S   | -1735 / 0                 | 0.21 (1)                  |
| O-M    | -244 0     | 0.0                       | 0.0                       | 0.01 (1)                  | 7.81  |       |                           |                           |
| X-AA   | 0 / 7091   | -18.5                     | -18.5                     | 0.21 (1)                  | 10.00 |       |                           |                           |
| AA-AB  | 0 / 7091   | -18.5                     | -18.5                     | 0.21 (1)                  | 10.00 |       |                           |                           |
| AB-W   | 0 / 7091   | -18.5                     | -18.5                     | 0.21 (1)                  | 10.00 |       |                           |                           |
| W-AC   | 0 / 8417   | -18.5                     | -18.5                     | 0.28 (1)                  | 10.00 |       |                           |                           |
| AC-AD  | 0 / 8417   | -18.5                     | -18.5                     | 0.28 (1)                  | 10.00 |       |                           |                           |
| AD-V   | 0 / 8417   | -18.5                     | -18.5                     | 0.28 (1)                  | 10.00 |       |                           |                           |
| V-U    | 0 / 13684  | -18.5                     | -18.5                     | 0.42 (1)                  | 10.00 |       |                           |                           |
| U-T    | 0 / 13684  | -18.5                     | -18.5                     | 0.42 (1)                  | 10.00 |       |                           |                           |
| T-S    | 0 / 11842  | -18.5                     | -18.5                     | 0.35 (1)                  | 10.00 |       |                           |                           |
| S-R    | 0 / 7992   | -18.5                     | -18.5                     | 0.25 (1)                  | 10.00 |       |                           |                           |
| R-Q    | 0 / 7992   | -18.5                     | -18.5                     | 0.25 (1)                  | 10.00 |       |                           |                           |
| Q-P    | 0 / 4815   | -18.5                     | -18.5                     | 0.14 (1)                  | 10.00 |       |                           |                           |
| P-O    | 0 / 4149   | -18.5                     | -18.5                     | 0.13 (1)                  | 10.00 |       |                           |                           |

| SPECIFIED CONCENTRATED LOADS (LBS) | JT      | LOC.  | LC1   | MAX. | MAX+ | FACE | DIR. | TYPE  | HEEL | CONN. |
|------------------------------------|---------|-------|-------|------|------|------|------|-------|------|-------|
| D                                  | 5-10-8  | -255  | -255  | -    | -    | BACK | VERT | TOTAL | -    | C1    |
| V                                  | 10-5-12 | -2879 | -2879 | -    | -    | BACK | VERT | TOTAL | -    | C1    |
| W                                  | 5-11-4  | -21   | -21   | -    | -    | BACK | VERT | TOTAL | -    | C1    |
| Y                                  | 7-11-4  | -76   | -76   | -    | -    | BACK | VERT | TOTAL | -    | C1    |
| Z                                  | 9-5-4   | -76   | -76   | -    | -    | BACK | VERT | TOTAL | -    | C1    |
| AA                                 | 1-11-4  | -20   | -20   | -    | -    | BACK | VERT | TOTAL | -    | C1    |
| AB                                 | 3-11-4  | -21   | -21   | -    | -    | BACK | VERT | TOTAL | -    | C1    |
| AC                                 | 7-11-4  | -21   | -21   | -    | -    | BACK | VERT | TOTAL | -    | C1    |

### DESIGN CRITERIA

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

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

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

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

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

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

ALLOWABLE DEFL.(LL) = L/360 (1.26")  
CALCULATED VERT. DEFL.(LL) = L/999 (0.29")  
ALLOWABLE DEFL.(TL) = L/360 (1.26")  
CALCULATED VERT. DEFL.(TL) = L/845 (0.54")

CSI: TC=0.47/1.00 (D-E:1), BC=0.42/1.00 (T-V:1), WB=0.75/1.00 (C-X:1), SSI=0.12/1.00 (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= 0.90 (C) (INPUT = 0.90)  
JSI METAL= 0.94 (U) (INPUT = 1.00)



Structural component only  
DWG# T-2108050 1/2

|                                 |                           |                      |                 |                                     |          |
|---------------------------------|---------------------------|----------------------|-----------------|-------------------------------------|----------|
| JOB NAME<br><b>417413</b>       | TRUSS NAME<br><b>T21Z</b> | QUANTITY<br><b>1</b> | PLY<br><b>2</b> | JOB DESC.<br><b>GREENPARK HOMES</b> | DRWG NO. |
| Tamarack Roof Truss, Burlington |                           |                      |                 | TRUSS DESC.                         |          |

Version 8.420 8 Jan 21 2021 Mitek Industries, Inc. Fri Mar 19 17:49:27 2021 Page 2  
ID:PYmSeP3BHHa?NFX7gCcknSza0qu-HovSta10CMGO1DLGJloIlexL4j88 Ufv6xuWP4zZJIM

**PLATES (table is in inches)**

| JT      | TYPE    | PLATES | W   | LEN | Y    | X    |
|---------|---------|--------|-----|-----|------|------|
| B       | TMV+p   | MT20   | 4.0 | 4.0 |      |      |
| O       | TMWW-t  | MT20   | 5.0 | 8.0 | 2.50 | 2.75 |
| D       | TTWW+m  | MT20   | 6.0 | 9.0 | Edge |      |
| E, G, J |         |        |     |     |      |      |
| F       | TMWW-t  | MT20   | 5.0 | 8.0 |      |      |
| H       | TMW+w   | MT20   | 3.0 | 6.0 |      |      |
| I       | TS-t    | MT20   | 5.0 | 6.0 |      |      |
| K       | TMW+w   | MT20   | 3.0 | 6.0 |      |      |
| L       | TTWW+m  | MT20   | 6.0 | 9.0 | Edge |      |
| M       | TMWW-t  | MT20   | 5.0 | 8.0 | 2.50 | 2.75 |
| N       | TMV+p   | MT20   | 4.0 | 4.0 |      |      |
| O       | BMVW1-t | MT20   | 6.0 | 9.0 |      |      |
| P       | BMWW-t  | MT20   | 5.0 | 6.0 |      |      |
| Q       | BMWW-t  | MT20   | 6.0 | 9.0 | 4.50 | 2.50 |
| R       | BS-t    | MT20   | 8.0 | 9.0 |      |      |
| S       | BMWWW-t | MT20   | 5.0 | 8.0 | 2.50 | 2.00 |
| T       | BMWWW-t | MT20   | 5.0 | 8.0 | 2.50 | 2.50 |
| U       | BS-t    | MT20   | 8.0 | 9.0 |      |      |
| V       | BMWW-t  | MT20   | 6.0 | 9.0 | 4.50 | 2.50 |
| W       | BMVW1-t | MT20   | 5.0 | 6.0 |      |      |
| X       | BMVW1-t | MT20   | 6.0 | 9.0 |      |      |

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

WB - INDICATES BLOCKING REQUIRED.

**NOTES- (1)**

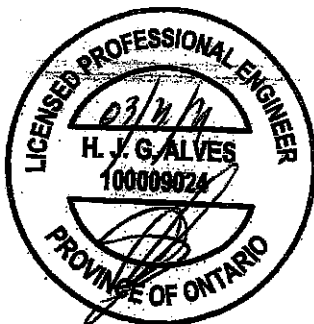
1) Lateral braces to be a minimum of 2X4 SPF #2.

**SPECIFIED CONCENTRATED LOADS (LBS)**

| JT | LOC.  | LC1 | MAX- | MAX+ | FACE | DIR. | TYPE  | HEEL | CONN. |
|----|-------|-----|------|------|------|------|-------|------|-------|
| AD | 9-5-4 | -21 | -21  |      | BACK | VERT | TOTAL |      | C1    |

**CONNECTION REQUIREMENTS**

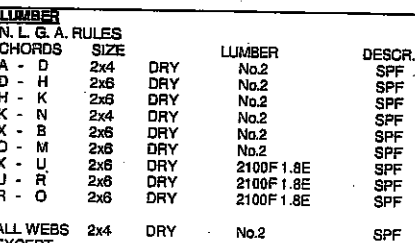
1) C1: A SUITABLE HANGER/MECHANICAL CONNECTION IS REQUIRED.



Structural component only  
DWG# T-2108050 *in*

Tamarack Roof Truss, Burlington

Version 8.420 S Jan 21 2021 MiTek Industries, Inc. Sat Mar 20 07:56:31 2021 Page 1  
?NFX7pCcknSza0qu-AVu1j45742Z3RnjEeFcj9dvp1BE18eM149PuEEzZ6uF



DRY: SEASONED LUMBER.

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

| CHORDS                                   | #ROWS | SURFACE<br>SPACING (IN) | LOAD(PLF) |
|------------------------------------------|-------|-------------------------|-----------|
| TOP CHORDS : (0.122"x3") SPIRAL NAILS    |       |                         |           |
| -D                                       | 1     | 12                      | TOP       |
| -N                                       | 1     | 12                      | SIDE(61.0 |
| -H                                       | 2     | 12                      | TOP       |
| -K                                       | 2     | 12                      | SIDE(163. |
| -B                                       | 2     | 12                      | TOP       |
| -M                                       | 2     | 12                      | TOP       |
| BOTTOM CHORDS : (0.122"x3") SPIRAL NAILS |       |                         |           |
| -U                                       | 2     | 12                      | TOP       |
| -R                                       | 2     | 12                      | SIDE(197. |
| -O                                       | 2     | 12                      | SIDE(197. |
| EBS : (0.122"x3") SPIRAL NAILS           |       |                         |           |
| -4                                       | 1     | 8                       |           |

RAILS TO BE DRIVEN FROM ONE SIDE ONLY.

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

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

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

| JT | FACTORED<br>GROSS REACTION |      | MAXIMUM FACTORED<br>GROSS REACTION |      | INPUT<br>BRG    | REQRD<br>BRG |
|----|----------------------------|------|------------------------------------|------|-----------------|--------------|
|    | VERT                       | HORZ | DOWN                               | HORZ | UPLIFT<br>IN-SX | IN-SX        |
| X  | 4029                       | 0    | 4029                               | 0    | 5-8             | 5-8          |
| O  | 3413                       | 0    | 3413                               | 0    | 5-8             | 5-8          |

### UNFACTORED REACTIONS

| 1ST LCASE |          | MAX./MIN. COMPONENT REACTIONS |       |            |       |         |       |
|-----------|----------|-------------------------------|-------|------------|-------|---------|-------|
| JT        | COMBINED | SNOW                          | LIVE  | PERM. LIVE | WIND  | DEAD    | SOIL  |
| O         | 2848     | 1876 / 0                      | 0 / 0 | 0 / 0      | 0 / 0 | 972 / 0 | 0 / 0 |
| X         | 2410     | 1803 / 0                      | 0 / 0 | 0 / 0      | 0 / 0 | 887 / 0 | 0 / 0 |

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

## BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.41 FT.  
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED

ALL PITCH BREAKS AND PERIMETER CORNER JOINTS MUST BE LATERALLY RESTRAINED

## LOADING

**TOTAL LOAD CASES: (4)**

| CHORDS |                           |                           |                   | WEBS               |       |                           |               |
|--------|---------------------------|---------------------------|-------------------|--------------------|-------|---------------------------|---------------|
| MEMB.  | MAX. FACTORED FORCE (LBS) | FACTORED VERT. LOAD (PLF) | LC1 MAX. CSI (LC) | MAX. UNBRAC LENGTH | MEMB. | MAX. FACTORED FORCE (LBS) | MAX. CSI (LC) |
| FR-TO  |                           | FROM                      | TO                |                    | FR-TO |                           |               |
| A-B    | 0 / 28                    | -91.8                     | -91.8 0.07 (1)    | 10.00              | W-D   | -361 / 0                  | 0.03 (1)      |
| B-C    | 0 / 7                     | -91.8                     | -91.8 0.08 (1)    | 10.00              | P-K   | -417 / 0                  | 0.04 (1)      |
| C-D    | -5264 / 0                 | -91.8                     | -91.8 0.15 (1)    | 4.12               | V-E   | -2526 / 0                 | 0.22 (1)      |
| D-E    | -7789 / 0                 | -91.8                     | -91.8 0.18 (1)    | 4.23               | Q-J   | -2578 / 0                 | 0.22 (1)      |
| E-F    | -10744 / 0                | -91.8                     | -91.8 0.32 (1)    | 3.56               | D-V   | 0 / 3905                  | 0.35 (1)      |
| F-G    | -10744 / 0                | -91.8                     | -91.8 0.23 (1)    | 3.84               | Q-K   | 0 / 4045                  | 0.36 (1)      |
| G-H    | -11388 / 0                | -91.8                     | -91.8 0.26 (1)    | 3.51               | S-J   | 0 / 3035                  | 0.27 (1)      |
| H-Y    | -11388 / 0                | -91.8                     | -91.8 0.26 (1)    | 3.51               | C-W   | 0 / 816                   | 0.07 (1)      |
| Y-I    | -11388 / 0                | -91.8                     | -91.8 0.26 (1)    | 3.51               | X-C   | -5143 / 0                 | 0.43 (1)      |
| Z      | -11388 / 0                | -91.8                     | -91.8 0.39 (1)    | 3.41               | P-L   | 0 / 1034                  | 0.09 (1)      |
| AA     | -11388 / 0                | -91.8                     | -91.8 0.39 (1)    | 3.41               | L-O   | -6115 / 0                 | 0.52 (1)      |
| AA-J   | -11388 / 0                | -91.8                     | -91.8 0.39 (1)    | 3.41               | E-T   | 0 / 3525                  | 0.31 (1)      |
| AB     | -8844 / 0                 | -91.8                     | -91.8 0.26 (1)    | 3.92               | S-I   | -626 / 0                  | 0.05 (1)      |
| AB-AC  | -8844 / 0                 | -91.8                     | -91.8 0.26 (1)    | 3.92               | T-F   | -344 / 0                  | 0.03 (1)      |
| AC-K   | -8844 / 0                 | -91.8                     | -91.8 0.26 (1)    | 3.92               | T-G   | -711 / 0                  | 0.09 (1)      |
| K-L    | -6312 / 0                 | -91.8                     | -91.8 0.20 (1)    | 3.76               | G-S   | 0 / 359                   | 0.03 (1)      |
| M      | 0 / 5                     | -91.8                     | -91.8 0.06 (1)    | 10.00              |       |                           |               |
| N      | 0 / 28                    | -91.8                     | -91.8 0.07 (1)    | 10.00              |       |                           |               |
| O      | -244 / 0                  | 0.0                       | 0.0 0.01 (1)      | 7.81               |       |                           |               |
| X-B    | -247 / 0                  | 0.0                       | 0.0 0.01 (1)      | 7.81               |       |                           |               |
| K-W    | 0 / 4088                  | -18.5                     | -18.5 0.12 (1)    | 10.00              |       |                           |               |
| N-V    | 0 / 4738                  | -18.5                     | -18.5 0.17 (1)    | 10.00              |       |                           |               |
| U      | 0 / 7789                  | -18.5                     | -18.5 0.31 (1)    | 10.00              |       |                           |               |
| T      | 0 / 7789                  | -18.5                     | -18.5 0.31 (1)    | 10.00              |       |                           |               |
| AD     | 0 / 11172                 | -18.5                     | -18.5 0.67 (1)    | 10.00              |       |                           |               |
| DAE    | 0 / 11172                 | -18.5                     | -18.5 0.67 (1)    | 10.00              |       |                           |               |
| E-S    | 0 / 11172                 | -18.5                     | -18.5 0.67 (1)    | 10.00              |       |                           |               |
| R      | 0 / 8843                  | -18.5                     | -18.5 0.36 (1)    | 10.00              |       |                           |               |
| AF     | 0 / 8843                  | -18.5                     | -18.5 0.36 (1)    | 10.00              |       |                           |               |
| F-Q    | 0 / 8843                  | -18.5                     | -18.5 0.36 (1)    | 10.00              |       |                           |               |
| AG     | 0 / 5683                  | -18.5                     | -18.5 0.20 (1)    | 10.00              |       |                           |               |
| GAH    | 0 / 5683                  | -18.5                     | -18.5 0.20 (1)    | 10.00              |       |                           |               |
| H-P    | 0 / 5683                  | -18.5                     | -18.5 0.20 (1)    | 10.00              |       |                           |               |
| AI     | 0 / 4381                  | -18.5                     | -18.5 0.15 (1)    | 10.00              |       |                           |               |
| IAJ    | 0 / 4381                  | -18.5                     | -18.5 0.15 (1)    | 10.00              |       |                           |               |
| JO     | 0 / 4381                  | -18.5                     | -18.5 0.15 (1)    | 10.00              |       |                           |               |

PECIFIED CONCENTRATED LOADS (LBS)

| LOC.    | LC1  | MAX- | MAX+ | FACE  | DIR. | TYPE  | HEEL | CONN. |
|---------|------|------|------|-------|------|-------|------|-------|
| 21-8-12 | -76  | -76  | --   | FRONT | VERT | TOTAL | —    | C1    |
| 31-9-8  | -269 | -269 | —    | 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, NBCC 2015

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

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

ALLOWABLE DEFL.(LL)= L/360 (1.26")  
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.30")  
ALLOWABLE DEFL.(TL)= L/360 (1.26")  
CALCULATED VERT. DEFL.(TL) = L/ 825 (0.55")

CSI: TC=0.39/1.00 (I-J:1), BC=0.67/1.00 (S-T:1),  
WB=0.52/1.00 (L-O:1), SS=0.35/1.00 (S-T: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.

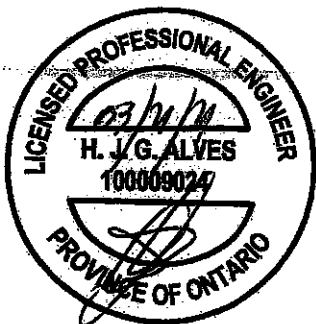
### NAIL VALUES

| PLATE | GRIP(DRY)<br>(PSI) |     | SHEAR<br>(PLI) |     | SECTION<br>(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= 0.86 (C) (INPUT = 0.90 )  
JSI METAL= 0.84 (U) (INPUT = 1.00 )



Structural component only  
DWG# T-2108074 *ll*

| JOB NAME                        | TRUSS NAME | QUANTITY | PLY | JOB DESC.       | DRWG NO. |
|---------------------------------|------------|----------|-----|-----------------|----------|
| 417419                          | T21Z2      | 1        | 2   | GREENPARK HOMES |          |
| Tamarack Roof Truss, Burlington |            |          |     | TRUSS DESC.     |          |

Version 8.420 S Jan 21 2021 MTek Industries, Inc. Sat Mar 20 07:56:31 2021 Page 2  
ID:PYmSsP3BHha?NFX7pCcknSza0ou-AVu145742Z3RnjEeFci9dvpIBe8eMl49PuEEzZ6uE

**PLATES (table is in inches)**

| JT         | TYPE    | PLATES | W   | LEN | Y    | X    |
|------------|---------|--------|-----|-----|------|------|
| B          | TMV+p   | MT20   | 4.0 | 4.0 |      |      |
| C          | TMWW-t  | MT20   | 5.0 | 6.0 | 2.25 | 3.00 |
| D          | TTWW+m  | MT20   | 5.0 | 8.0 | Edge |      |
| E, G, J    |         |        |     |     |      |      |
| E          | TMWW-t  | MT20   | 5.0 | 6.0 |      |      |
| F          | TMWW+w  | MT20   | 3.0 | 6.0 |      |      |
| H          | TS-t    | MT20   | 5.0 | 6.0 |      |      |
| I          | TMWW+w  | MT20   | 3.0 | 6.0 |      |      |
| K          | TTWW+m  | MT20   | 5.0 | 8.0 | Edge |      |
| L          | TMWW-t  | MT20   | 5.0 | 6.0 | 2.25 | 3.00 |
| M          | TMV+p   | MT20   | 4.0 | 4.0 |      |      |
| O          | BMVW1-t | MT20   | 5.0 | 6.0 |      |      |
| P, Q, V, W |         |        |     |     |      |      |
| P          | BMWW-t  | MT20   | 5.0 | 6.0 |      |      |
| R          | BS-t    | MT20   | 5.0 | 6.0 |      |      |
| S          | BMWWW-t | MT20   | 6.0 | 9.0 |      |      |
| T          | BMWWW-t | MT20   | 6.0 | 9.0 |      |      |
| U          | BS-t    | MT20   | 5.0 | 6.0 |      |      |
| X          | 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.

**SPECIFIED CONCENTRATED LOADS (LBS)**

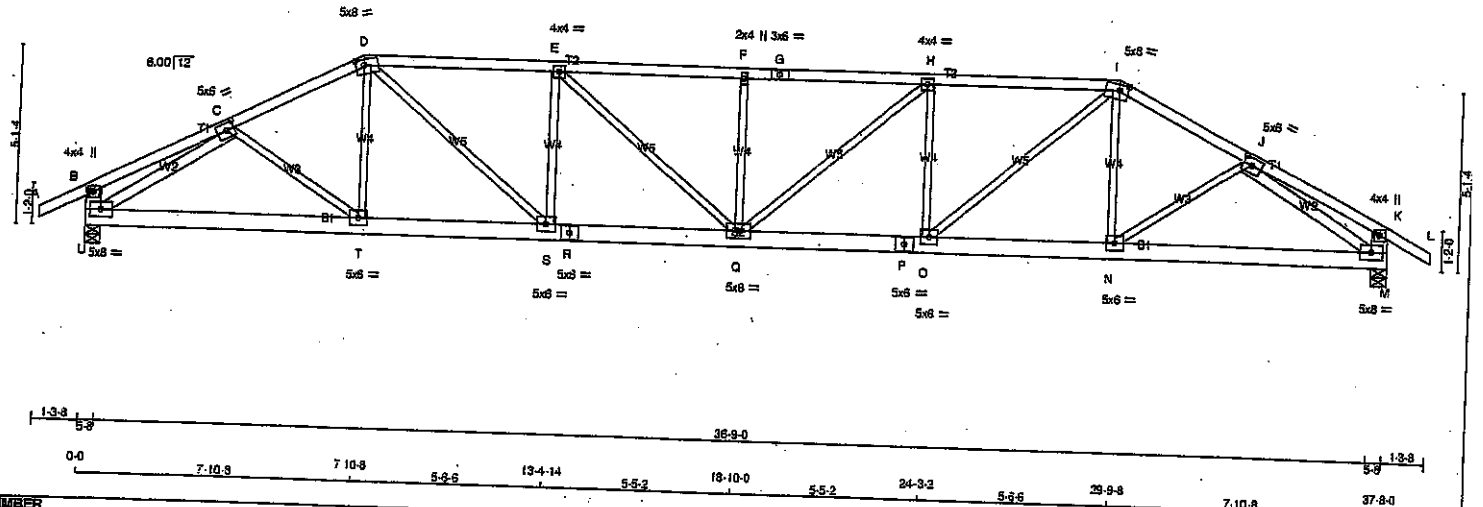
| JT | LOC.    | LC1   | MAX-  | MAX+ | FACE  | DIR. | TYPE  | HEEL | CONN. |
|----|---------|-------|-------|------|-------|------|-------|------|-------|
| P  | 31-8-12 | -21   | -21   |      | FRONT | VERT | TOTAL |      | C1    |
| R  | 23-8-12 | -21   | -21   |      | FRONT | VERT | TOTAL |      | C1    |
| S  | 21-8-12 | -21   | -21   |      | FRONT | VERT | TOTAL |      | C1    |
| Y  | 20-2-12 | -78   | -78   |      | FRONT | VERT | TOTAL |      | C1    |
| Z  | 23-8-12 | -78   | -78   |      | FRONT | VERT | TOTAL |      | C1    |
| AA | 25-8-12 | -78   | -78   |      | FRONT | VERT | TOTAL |      | C1    |
| AB | 27-8-12 | -78   | -78   |      | FRONT | VERT | TOTAL |      | C1    |
| AC | 29-8-12 | -78   | -78   |      | FRONT | VERT | TOTAL |      | C1    |
| AD | 19-1-8  | -1235 | -1235 |      | FRONT | VERT | TOTAL |      | C1    |
| AE | 20-2-12 | -21   | -21   |      | FRONT | VERT | TOTAL |      | C1    |
| AF | 25-8-12 | -21   | -21   |      | FRONT | VERT | TOTAL |      | C1    |
| AG | 27-8-12 | -21   | -21   |      | FRONT | VERT | TOTAL |      | C1    |
| AH | 29-8-12 | -21   | -21   |      | FRONT | VERT | TOTAL |      | C1    |
| AI | 33-8-12 | -21   | -21   |      | FRONT | VERT | TOTAL |      | C1    |
| AJ | 35-8-12 | -20   | -20   |      | FRONT | VERT | TOTAL |      | C1    |

**CONNECTION REQUIREMENTS**

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



Structural component only  
DWG# T-2108074 *m*



| LUMBER                |  |      |     |        |
|-----------------------|--|------|-----|--------|
| N. L. G. A. RULES     |  |      |     |        |
| CHORDS                |  | SIZE | DRY | LUMBER |
| A - D                 |  | 2x4  | DRY | No.2   |
| D - G                 |  | 2x4  | DRY | No.2   |
| G - I                 |  | 2x4  | DRY | No.2   |
| I - L                 |  | 2x4  | DRY | No.2   |
| U - B                 |  | 2x8  | DRY | No.2   |
| M - K                 |  | 2x8  | DRY | No.2   |
| U - R                 |  | 2x8  | DRY | No.2   |
| R - P                 |  | 2x8  | DRY | No.2   |
| P - M                 |  | 2x8  | DRY | No.2   |
| ALL WEBS EXCEPT       |  | 2x3  | DRY | No.2   |
| U - C                 |  | 2x4  | DRY | No.2   |
| J - M                 |  | 2x4  | DRY | No.2   |
| DRY: SEASONED LUMBER. |  |      |     |        |

**PLATES (table is in inches)**

| JT         | TYPE   | PLATES | W   | LEN | Y    | X    |
|------------|--------|--------|-----|-----|------|------|
| B          | TMV+P  | MT20   | 4.0 | 4.0 |      |      |
| C          | TMVW-t | MT20   | 5.0 | 8.0 | 2.50 | 2.75 |
| D          | TTWW-m | MT20   | 5.0 | 8.0 | 2.00 | 3.00 |
| E          | TMVW-t | MT20   | 4.0 | 4.0 |      |      |
| F          | TMVW-w | MT20   | 2.0 | 4.0 |      |      |
| G          | TS-t   | MT20   | 3.0 | 8.0 |      |      |
| H          | TMVW-t | MT20   | 4.0 | 4.0 |      |      |
| I          | TTWW-m | MT20   | 5.0 | 8.0 | 2.00 | 3.00 |
| J          | TMVW-t | MT20   | 5.0 | 8.0 | 2.50 | 2.75 |
| K          | TMV+P  | MT20   | 4.0 | 4.0 |      |      |
| M          | BMVW-t | MT20   | 5.0 | 8.0 |      |      |
| N, O, S, T |        |        |     |     |      |      |
| N          | BMVW-t | MT20   | 5.0 | 6.0 |      |      |
| P          | BS-t   | MT20   | 5.0 | 6.0 |      |      |
| Q          | BMVW-t | MT20   | 5.0 | 8.0 |      |      |
| R          | BS-t   | MT20   | 5.0 | 6.0 |      |      |
| U          | BMVW-t | MT20   | 5.0 | 8.0 |      |      |

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

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

**BEARINGS**

| FACTORED GROSS REACTION | MAXIMUM FACTORED GROSS REACTION | INPUT BRG | REQD BRG |
|-------------------------|---------------------------------|-----------|----------|
| JT VERT                 | 2201                            | 0         | 5-8      |
| U VERT                  | 2201                            | 0         | 5-8      |
| M VERT                  | 2201                            | 0         | 5-8      |

**UNFACTORED REACTIONS**

| 1ST CASE    | MAX. MIN. COMPONENT REACTIONS |
|-------------|-------------------------------|
| JT COMBINED | 1554 1033 0                   |
| U COMBINED  | 1554 1033 0                   |
| M COMBINED  | 1554 1033 0                   |

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

**BRACING**  
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 2.83 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 MOM. (LC) | MEMB. | MAX. FACTORED FORCE (LBS) | MAX. FACTORED MOM. (LC) |          |
| FR-TO  |                           |                           |                         | FR-TO |                           |                         |          |
| A-B    | 0 / 28                    | -91.8                     | -91.8 0.12 (1)          | 10.00 | C-T                       | 0 / 94                  | 0.03 (4) |
| B-C    | 0 / 16                    | -91.8                     | -91.8 0.20 (1)          | 10.00 | T-D                       | 0 / 116                 | 0.04 (4) |
| C-D    | -3099 / 0                 | -91.8                     | -91.8 0.34 (1)          | 3.89  | N-I                       | 0 / 116                 | 0.04 (4) |
| D-E    | -3848 / 0                 | -91.8                     | -91.8 0.74 (1)          | 2.98  | N-J                       | 0 / 94                  | 0.03 (4) |
| E-F    | -4164 / 0                 | -91.8                     | -91.8 0.79 (1)          | 2.83  | J-M                       | -3270 / 0               | 0.83 (1) |
| F-G    | -4164 / 0                 | -91.8                     | -91.8 0.79 (1)          | 2.83  | M-N                       | -3270 / 0               | 0.83 (1) |
| G-H    | -4164 / 0                 | -91.8                     | -91.8 0.79 (1)          | 2.83  | O-I                       | 0 / 1435                | 0.32 (1) |
| H-I    | -3848 / 0                 | -91.8                     | -91.8 0.74 (1)          | 2.98  | I-J                       | 0 / 1435                | 0.32 (1) |
| I-J    | -3099 / 0                 | -91.8                     | -91.8 0.34 (1)          | 3.89  | D-S                       | 0 / 1435                | 0.32 (1) |
| J-K    | 0 / 16                    | -91.8                     | -91.8 0.20 (1)          | 10.00 | S-E                       | -843 / 0                | 0.30 (1) |
| K-L    | 0 / 28                    | -91.8                     | -91.8 0.12 (1)          | 10.00 | E-H                       | -843 / 0                | 0.30 (1) |
| L-M    | -270 / 0                  | 0.0                       | 0.0 0.02 (1)            | 7.81  | H-Q                       | 0 / 419                 | 0.09 (1) |
| M-N    | -270 / 0                  | 0.0                       | 0.0 0.02 (1)            | 7.81  | Q-R                       | 0 / 419                 | 0.09 (1) |
| N-O    | 0 / 2885                  | -18.5                     | -18.5 0.39 (1)          | 10.00 | R-S                       | -458 / 0                | 0.16 (1) |
| O-P    | 0 / 2757                  | -18.5                     | -18.5 0.37 (1)          | 10.00 |                           |                         |          |
| P-Q    | 0 / 3848                  | -18.5                     | -18.5 0.51 (1)          | 10.00 |                           |                         |          |
| Q-R    | 0 / 3848                  | -18.5                     | -18.5 0.51 (1)          | 10.00 |                           |                         |          |
| R-S    | 0 / 3848                  | -18.5                     | -18.5 0.51 (1)          | 10.00 |                           |                         |          |
| S-T    | 0 / 3848                  | -18.5                     | -18.5 0.51 (1)          | 10.00 |                           |                         |          |
| T-U    | 0 / 2757                  | -18.5                     | -18.5 0.37 (1)          | 10.00 |                           |                         |          |
| U-V    | 0 / 2885                  | -18.5                     | -18.5 0.39 (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**

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

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

THIS DESIGN COMPLIES WITH:  
- PART 9 OF CBC 2018, ABC 2019  
- PART 9 OF CBC 2012 (2015 AMENDMENT)  
- CSA 086-14  
- TRPC 2014

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

ALLOWABLE DEFL.(LL) = L/360 (1.26")  
CALCULATED VERT. DEFL.(LL) = L/999 (0.24")  
ALLOWABLE DEFL.(TL) = L/360 (1.26")  
CALCULATED VERT. DEFL.(TL) = L/999 (0.44")

CSI: TC=0.78/1.00 (E-F:1), BC=0.51/1.00 (Q-S:1), WB=0.63/1.00 (J-M:1), SS=0.24/1.00 (D-E:1)

DOL LUMBER=1.00 NAIL=1.00 LS BEND=1.10

COMP=1.10 SHEAR=1.10 TENS=1.10

COMPANION LIVE LOAD FACTOR = 1.00

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 (C) (INPUT = 0.90)

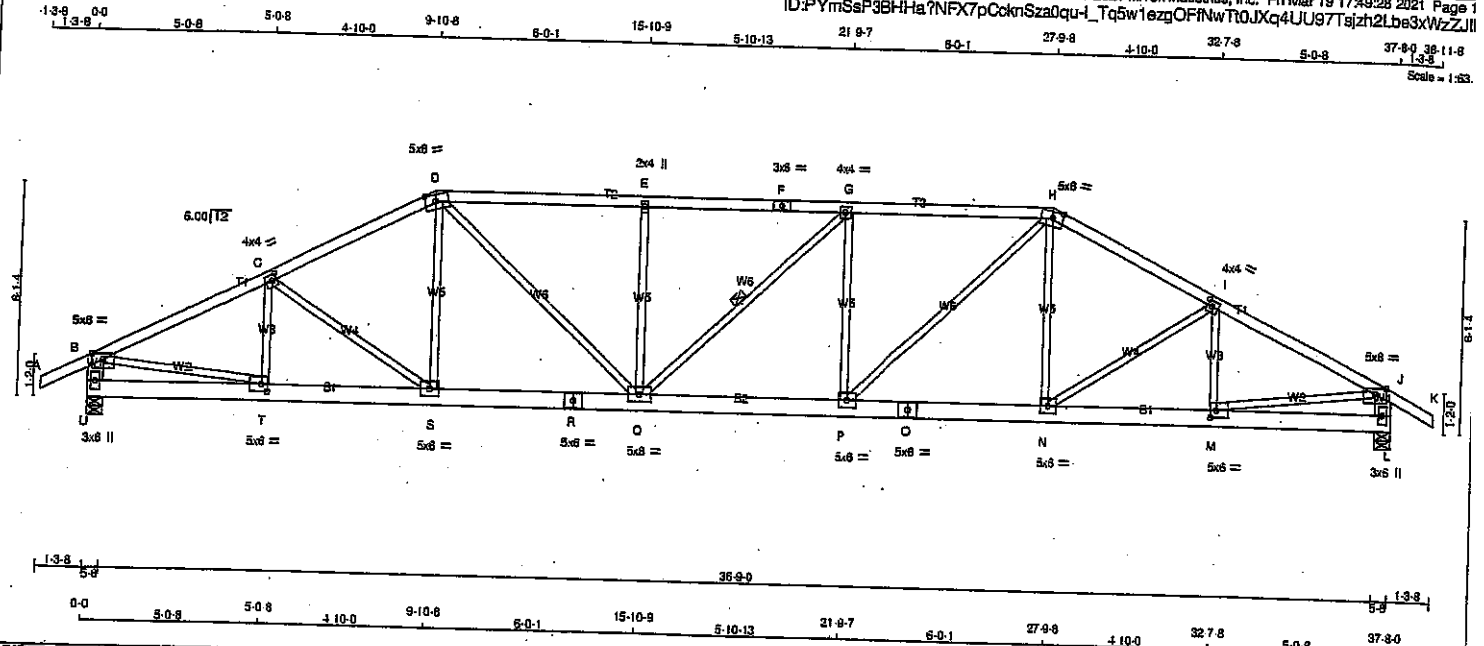
JSI METAL= 0.74 (C) (INPUT = 1.00)



| JOB NAME | TRUSS NAME | QUANTITY | PLY | JOB DESC.       | TRUSS DESC. | DRWG NO. |
|----------|------------|----------|-----|-----------------|-------------|----------|
| 417413   | T23        | 2        | 1   | GREENPARK HOMES |             |          |

Tamarack Roof Truss, Burlington

Version 8.420 S Jan 21 2021 MTEK Industries, Inc. Fri Mar 19 17:48:28 2021 Page 1  
ID:PYmSsP3BH-Ha?NFX7pCcknSza0qu-l\_Tq5w1ezgOFNwTt0JXq4UU97Tajzh2Lba3xWzZJl



| CHORDS | SIZE | LUMBER | DESCR. |
|--------|------|--------|--------|
| A - D  | 2x4  | DRY    | No.2   |
| D - F  | 2x4  | DRY    | No.2   |
| F - H  | 2x4  | DRY    | No.2   |
| H - K  | 2x4  | DRY    | No.2   |
| U - B  | 2x6  | DRY    | No.2   |
| U - J  | 2x6  | DRY    | No.2   |
| U - R  | 2x6  | DRY    | No.2   |
| O - L  | 2x6  | DRY    | No.2   |

ALL WEBS 2x3 DRY No.2  
EXCEPT

DRY: SEASONED LUMBER.

#### PLATES (Table is in inches)

| JT TYPE  | PLATES | W   | LEN | Y    | X    |
|----------|--------|-----|-----|------|------|
| B TMVW-p | MT20   | 5.0 | 8.0 | Edge |      |
| C TMVW-t | MT20   | 4.0 | 4.0 | 2.00 | 1.75 |
| D TTWW-m | MT20   | 5.0 | 8.0 | 2.25 | 3.50 |
| E TMVW-w | MT20   | 2.0 | 4.0 |      |      |
| F TS-t   | MT20   | 3.0 | 6.0 |      |      |
| G TMVW-t | MT20   | 4.0 | 4.0 |      |      |
| H TTWW-m | MT20   | 5.0 | 8.0 | 2.25 | 3.50 |
| I TMVW-t | MT20   | 4.0 | 4.0 | 2.00 | 1.75 |
| J TMVW-p | MT20   | 5.0 | 8.0 | Edge |      |
| L BMV1-p | MT20   | 3.0 | 6.0 |      |      |
| M BMVW-t | MT20   | 5.0 | 6.0 | 2.50 | 2.00 |
| N, P, S  |        |     |     |      |      |
| N BMVW-t | MT20   | 5.0 | 6.0 |      |      |
| O BS-t   | MT20   | 5.0 | 6.0 |      |      |
| Q BMVW-t | MT20   | 5.0 | 6.0 |      |      |
| R BS-t   | MT20   | 5.0 | 6.0 |      |      |
| T BMVW-t | MT20   | 5.0 | 6.0 | 2.50 | 2.00 |
| U BMV1-p | MT20   | 3.0 | 6.0 |      |      |

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

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

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

| BEARINGS | FACTORED GROSS REACTION | MAXIMUM FACTORED GROSS REACTION | INPUT BRG | REQD BRG |
|----------|-------------------------|---------------------------------|-----------|----------|
| JT VERT  | 2201                    | 2201                            | 0         | 5-8      |
| U VERT   | 2201                    | 2201                            | 0         | 5-8      |
| L VERT   | 2201                    | 2201                            | 0         | 5-8      |

#### UNFACTORED REACTIONS

| 1ST CASE    | MAX/MIN. COMPONENT REACTIONS        |
|-------------|-------------------------------------|
| JT COMBINED | SNOW LIVE PERM. LIVE WIND DEAD SOIL |
| U           | 1554 1033 0 0 0 0 0 0 0 0           |
| L           | 1554 1033 0 0 0 0 0 0 0 0           |

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

#### BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.33 FT.  
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.  
ALL PITCH BREAKS AND PERIMETER CORNER JOINTS MUST BE Laterally RESTRAINED.

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

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

#### LOADING

TOTAL LOAD CASES: (4)

| CHORDS | MAX. FACTORED FORCE (LBS) | FACTORED VERT. LOAD (PLF) | MAX. FACTORED VERT. LOAD (LC) | MAX. FACTORED VERT. LOAD (LC) | WEBS  | MAX. FACTORED FORCE (LBS) | MAX. FACTORED VERT. LOAD (LC) |
|--------|---------------------------|---------------------------|-------------------------------|-------------------------------|-------|---------------------------|-------------------------------|
| FR-TO  |                           | FROM TO                   |                               |                               | FR-TO |                           |                               |
| A-B    | 0:28                      | -91.8                     | -91.8                         | 0.12 (1)                      | 10.00 | T-C                       | -386 / 0                      |
| B-C    | -3111 / 0                 | -91.8                     | -91.8                         | 0.42 (1)                      | 3.63  | C-S                       | -178 / 0                      |
| C-D    | -2993 / 0                 | -91.8                     | -91.8                         | 0.40 (1)                      | 3.71  | S-D                       | 0 / 245                       |
| D-E    | -3381 / 0                 | -91.8                     | -91.8                         | 0.58 (1)                      | 3.33  | D-Q                       | 0 / 997                       |
| E-F    | -3381 / 0                 | -91.8                     | -91.8                         | 0.53 (1)                      | 3.39  | Q-E                       | -392 / 0                      |
| F-G    | -3381 / 0                 | -91.8                     | -91.8                         | 0.58 (1)                      | 3.33  | P-G                       | -589 / 0                      |
| G-H    | -3381 / 0                 | -91.8                     | -91.8                         | 0.58 (1)                      | 3.39  | Q-G                       | -9 / 0                        |
| H-I    | -2991 / 0                 | -91.8                     | -91.8                         | 0.40 (1)                      | 3.71  | P-H                       | 0 / 1008                      |
| I-J    | -3111 / 0                 | -91.8                     | -91.8                         | 0.42 (1)                      | 3.63  | N-H                       | 0 / 238                       |
| J-K    | 0 / 28                    | -91.8                     | -91.8                         | 0.12 (1)                      | 10.00 | N-I                       | -180 / 0                      |
| U-B    | -2138 / 0                 | 0.0                       | 0.0                           | 0.14 (1)                      | 6.96  | M-I                       | -384 / 0                      |
| L-J    | -2138 / 0                 | 0.0                       | 0.0                           | 0.14 (1)                      | 6.96  | B-T                       | 0 / 2835                      |
|        |                           |                           |                               |                               |       | M-J                       | 0 / 2835                      |
| U-T    | 0 / 0                     | -18.5                     | -18.5                         | 0.07 (1)                      | 10.00 |                           |                               |
| T-S    | 0 / 2802                  | -18.5                     | -18.5                         | 0.39 (1)                      | 10.00 |                           |                               |
| S-R    | 0 / 2659                  | -18.5                     | -18.5                         | 0.36 (1)                      | 10.00 |                           |                               |
| R-Q    | 0 / 2659                  | -18.5                     | -18.5                         | 0.36 (1)                      | 10.00 |                           |                               |
| Q-P    | 0 / 3387                  | -18.5                     | -18.5                         | 0.45 (1)                      | 10.00 |                           |                               |
| P-O    | 0 / 2657                  | -18.5                     | -18.5                         | 0.36 (1)                      | 10.00 |                           |                               |
| O-N    | 0 / 2657                  | -18.5                     | -18.5                         | 0.36 (1)                      | 10.00 |                           |                               |
| N-M    | 0 / 2802                  | -18.5                     | -18.5                         | 0.39 (1)                      | 10.00 |                           |                               |
| M-L    | 0 / 0                     | -18.5                     | -18.5                         | 0.07 (1)                      | 10.00 |                           |                               |

TOTAL WEIGHT = 2 X 177 = 353 lb

#### DESIGN CRITERIA

##### SPECIFIED LOADS:

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

SPACING = 24.0 IN. C/C

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

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

THIS DESIGN COMPLIES WITH:

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

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

ALLOWABLE DEFL.(LL) = L/360 (1.28")  
CALCULATED VERT. DEFL.(LL) = L/999 (0.19")  
ALLOWABLE DEFL.(TL) = L/360 (1.28")  
CALCULATED VERT. DEFL.(TL) = L/999 (0.36")

CSI: TC=0.58/1.00 (G-H:1), BC=0.45/1.00 (P-Q:1),  
WB=0.64/1.00 (J-K:1), SS=0.29/1.00 (G-H:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE HEELS OFF

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

NAIL VALUES  
PLATE GRIP(DRY) SHEAR SECTION (PSI) (PLI) (PLI)  
MAX MIN MAX MIN MAX MIN  
MT20 650 371 1747 798 1987 1873

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP = 0.86 (M) (INPUT = 0.90)  
JSI METAL = 0.64 (M) (INPUT = 1.00)

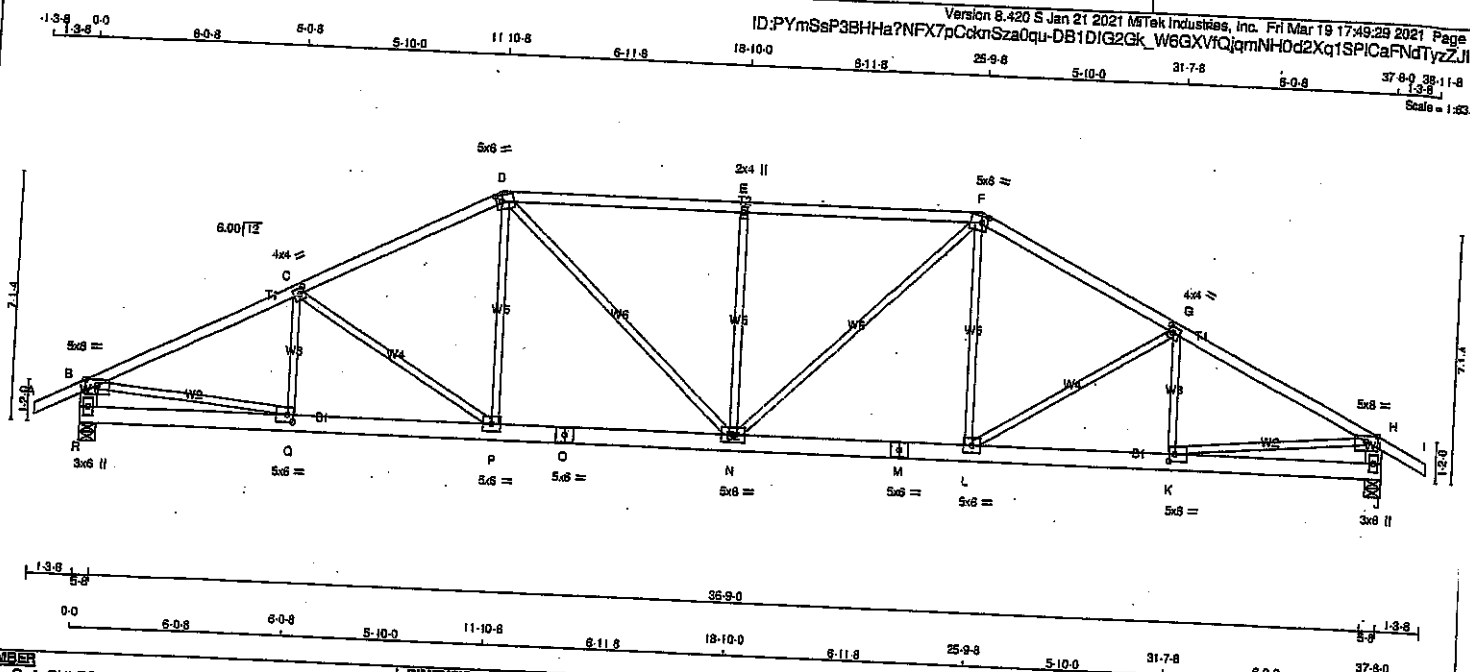


Structural component only  
DWG# T-2108052

|                           |                          |                      |                 |                                     |             |          |
|---------------------------|--------------------------|----------------------|-----------------|-------------------------------------|-------------|----------|
| JOB NAME<br><b>417413</b> | TRUSS NAME<br><b>T24</b> | QUANTITY<br><b>2</b> | PLY<br><b>1</b> | JOB DESC.<br><b>GREENPARK HOMES</b> | TRUSS DESC. | DRWG NO. |
|---------------------------|--------------------------|----------------------|-----------------|-------------------------------------|-------------|----------|

Tamarack Roof Truss, Burlington

Version 8.420 5 Jan 21 2021 Mitek Industries, Inc. Fri Mar 19 17:49:29 2021 Page 1  
ID:PYmSeP3BHha?NFX7pCckmSza0qu-DB1DIG2GK\_W6GXVtQqmNH0d2Xq1SPiCaFNdTyzZJl



**LUMBER**

N. L. G. A. RULES

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

DRY: SEASONED LUMBER.

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

**BEARINGS**

| JT | FACTORED GROSS REACTION |      | MAXIMUM FACTORED GROSS REACTION |      | INPUT BRG IN-SX | REQD BRG IN-SX |
|----|-------------------------|------|---------------------------------|------|-----------------|----------------|
|    | VERT                    | HORZ | DOWN                            | HORZ |                 |                |
| R  | 2201                    | 0    | 2201                            | 0    | 5-8             | 5-8            |
| J  | 2201                    | 0    | 2201                            | 0    | 5-8             | 5-8            |

**UNFACTORED REACTIONS**

| JT | 1ST LCASE |      | MAX. MIN. COMPONENT REACTIONS |            | WIND | DEAD | SOIL |
|----|-----------|------|-------------------------------|------------|------|------|------|
|    | COMBINED  | SNOW | LIVE                          | PERM. LIVE |      |      |      |
| R  | 1554      | 1033 | 0                             | 0          | 0    | 521  | 0    |
| J  | 1554      | 1033 | 0                             | 0          | 0    | 521  | 0    |

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

**BRACING**  
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.22 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 LC1 |       | MAX. UNBRACED LENGTH | FR-TO | MEMB. | MAX. FACTORED FORCE (LBS) | MAX. CSI (LC) |
|-------|---------------------------|-------------------------|-------|----------------------|-------|-------|---------------------------|---------------|
|       |                           | FROM                    | TO    |                      |       |       |                           |               |
| A-B   | 0/28                      | -91.8                   | -91.8 | 0.12 (1)             | 10.00 | Q-C   | -288/0                    | 0.07 (1)      |
| B-C   | -3171/0                   | -91.8                   | -91.8 | 0.62 (1)             | 3.40  | C-P   | -404/0                    | 0.38 (1)      |
| C-D   | -2848/0                   | -91.8                   | -91.8 | 0.58 (1)             | 3.62  | P-D   | 0/369                     | 0.08 (1)      |
| D-E   | -2988/0                   | -91.8                   | -91.8 | 0.76 (1)             | 3.22  | D-N   | 0/642                     | 0.14 (1)      |
| E-F   | -2988/0                   | -91.8                   | -91.8 | 0.76 (1)             | 3.22  | N-E   | -785/0                    | 0.84 (1)      |
| F-G   | -2848/0                   | -91.8                   | -91.8 | 0.58 (1)             | 3.62  | N-F   | 0/642                     | 0.14 (1)      |
| G-H   | -3171/0                   | -91.8                   | -91.8 | 0.62 (1)             | 3.40  | L-F   | 0/369                     | 0.08 (1)      |
| H-I   | 0/28                      | -91.8                   | -91.8 | 0.12 (1)             | 10.00 | L-G   | -404/0                    | 0.38 (1)      |
| R-B   | -2136/0                   | 0.0                     | 0.0   | 0.14 (1)             | 6.96  | K-G   | -287/0                    | 0.07 (1)      |
| J-H   | -2136/0                   | 0.0                     | 0.0   | 0.14 (1)             | 6.96  | B-Q   | 0/2884                    | 0.65 (1)      |
| R-Q   | 0/0                       | -18.5                   | -18.5 | 0.08 (4)             | 10.00 | K-H   | 0/2884                    | 0.65 (1)      |
| Q-P   | 0/2861                    | -18.5                   | -18.5 | 0.39 (1)             | 10.00 |       |                           |               |
| P-O   | 0/2526                    | -18.5                   | -18.5 | 0.35 (1)             | 10.00 |       |                           |               |
| O-N   | 0/2526                    | -18.5                   | -18.5 | 0.35 (1)             | 10.00 |       |                           |               |
| N-M   | 0/2526                    | -18.5                   | -18.5 | 0.35 (1)             | 10.00 |       |                           |               |
| M-L   | 0/2526                    | -18.5                   | -18.5 | 0.35 (1)             | 10.00 |       |                           |               |
| L-K   | 0/2861                    | -18.5                   | -18.5 | 0.39 (1)             | 10.00 |       |                           |               |
| K-J   | 0/0                       | -18.5                   | -18.5 | 0.08 (4)             | 10.00 |       |                           |               |

**DESIGN CRITERIA**

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

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

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

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

THIS DESIGN COMPLIES WITH:  
- PART 9 OF CBC 2015, ABC 2019  
- PART 9 OF CBC 2012 (2019 AMENDMENT)  
- CSA 088-14  
- TPIC 2014

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

ALLOWABLE DEFL. (LL) = L/360 (1.26")  
CALCULATED VERT. DEFL. (LL) = L/999 (0.17")  
ALLOWABLE DEFL. (TL) = L/360 (1.26")  
CALCULATED VERT. DEFL. (TL) = L/999 (0.32")

CSI: TC=0.78/1.00 (D-E:1), BC=0.39/1.00 (P-Q:1), WB=0.65/1.00 (B-C:1), SS=0.31/1.00 (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

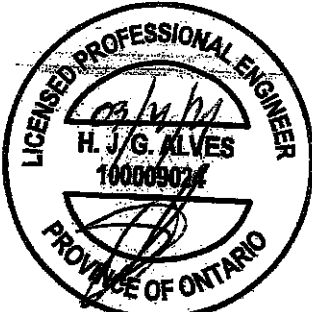
TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

**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.

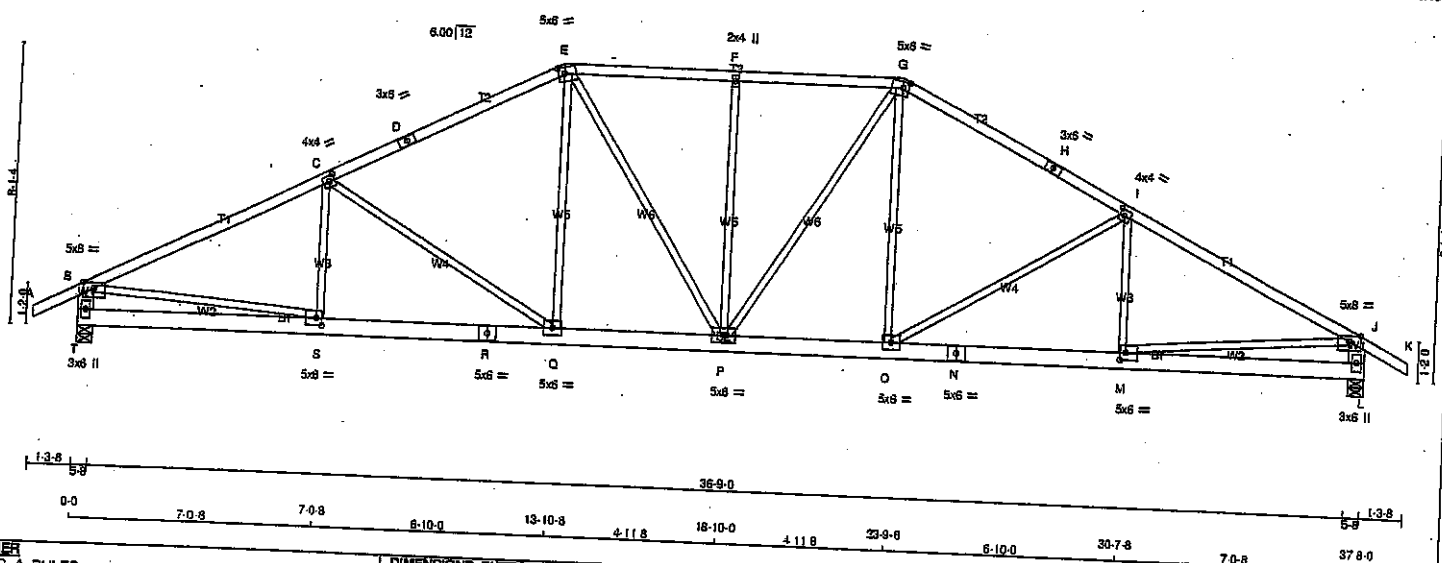
JSI GRIP= 0.88 (B) (INPUT = 0.90)  
JSI METAL= 0.65 (C) (INPUT = 1.00)



Structural component only  
DWG# T-2108053

|                                 |                          |                      |                 |                                     |          |
|---------------------------------|--------------------------|----------------------|-----------------|-------------------------------------|----------|
| JOB NAME<br><b>417413</b>       | TRUSS NAME<br><b>T25</b> | QUANTITY<br><b>2</b> | PLY<br><b>1</b> | JOB DESC.<br><b>GREENPARK HOMES</b> | DRWG NO. |
| Tamarack Roof Truss, Burlington |                          |                      |                 | TRUSS DESC.                         |          |

Version 8.420 S Jan 21 2021 MITek Industries, Inc. Fri Mar 19 17:49:30 2021 Page 1  
ID:PYmSp3BH-Ha?NFX7pCcknSza0qu-hNbVc3vUHezug3r\_RL?vZmw9BBpaLov7A0PzZJlJ  
374-0 38-118  
Scale: 3/16"=1'



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

DRY: SEASONED LUMBER.

#### PLATES (table is in inches)

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

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

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

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

| FACTORED       |      | MAXIMUM FACTORED |      | INPUT  |       | RECORD |  |
|----------------|------|------------------|------|--------|-------|--------|--|
| GROSS REACTION |      | GROSS REACTION   |      | BRG    |       | BRG    |  |
| VERT           | HORZ | DOWN             | HORZ | UPLIFT | IN-SX | IN-SX  |  |
| JT             | 2201 | 0                | 2201 | 0      | 5-8   | 5-8    |  |
| T              | 2201 | 0                | 2201 | 0      | 5-8   | 5-8    |  |

#### UNFACTORED REACTIONS

| 1ST CASE |          | MAX./MIN. COMPONENT REACTIONS |      | WIND       |   | DEAD |     | SOIL |   |
|----------|----------|-------------------------------|------|------------|---|------|-----|------|---|
| JT       | COMBINED | SNOW                          | LIVE | PERM. LIVE |   |      |     |      |   |
| T        | 1554     | 1033                          | 0    | 0          | 0 | 0    | 521 | 0    | 0 |
| L        | 1554     | 1033                          | 0    | 0          | 0 | 0    | 521 | 0    | 0 |

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

#### BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.06 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.  | MAX. FORCE (LBS) | VERT. LOAD | LC1 MAX (PLF)  | MEMB. | MAX. FORCE (LBS) | MAX. UNBRACED LENGTH | FR-TO    |
| FR-TO  |                  |            |                | FR-TO |                  |                      |          |
| A-B    | 0 / 28           | -91.8      | -91.8 0.12 (1) | S-C   | -202 / 49        | 10.00                | 0.06 (1) |
| B-C    | -3196 / 0        | -91.8      | -91.8 0.88 (1) | C-Q   | -621 / 0         | 3.06                 | 0.87 (1) |
| C-D    | -2675 / 0        | -91.8      | -91.8 0.78 (1) | Q-E   | 0 / 464          | 3.43                 | 0.10 (1) |
| D-E    | -2675 / 0        | -91.8      | -91.8 0.78 (1) | E-P   | 0 / 362          | 3.43                 | 0.08 (1) |
| E-F    | -2583 / 0        | -91.8      | -91.8 0.37 (1) | P-F   | -553 / 0         | 3.99                 | 0.66 (1) |
| F-G    | -2583 / 0        | -91.8      | -91.8 0.37 (1) | P-G   | 0 / 362          | 3.99                 | 0.08 (1) |
| G-H    | -2675 / 0        | -91.8      | -91.8 0.78 (1) | O-G   | 0 / 464          | 3.43                 | 0.10 (1) |
| H-I    | -2675 / 0        | -91.8      | -91.8 0.78 (1) | O-I   | -621 / 0         | 3.43                 | 0.87 (1) |
| I-J    | -3196 / 0        | -91.8      | -91.8 0.88 (1) | M-I   | -202 / 49        | 10.00                | 0.06 (1) |
| J-K    | 0 / 28           | -91.8      | -91.8 0.12 (1) | B-S   | 0 / 2908         | 6.96                 | 0.65 (1) |
| T-B    | -2134 / 0        | 0.0        | 0.0 0.14 (1)   | M-J   | 0 / 2908         | 6.96                 | 0.65 (1) |
| L-J    | -2134 / 0        | 0.0        | 0.0 0.14 (1)   |       |                  |                      |          |
| T-S    | 0 / 0            | -18.5      | -18.5 0.10 (4) |       |                  |                      |          |
| S-R    | 0 / 2888         | -18.5      | -18.5 0.40 (1) |       |                  |                      |          |
| R-Q    | 0 / 2888         | -18.5      | -18.5 0.40 (1) |       |                  |                      |          |
| Q-P    | 0 / 2387         | -18.5      | -18.5 0.33 (1) |       |                  |                      |          |
| P-O    | 0 / 2387         | -18.5      | -18.5 0.33 (1) |       |                  |                      |          |
| O-N    | 0 / 2888         | -18.5      | -18.5 0.40 (1) |       |                  |                      |          |
| N-M    | 0 / 2888         | -18.5      | -18.5 0.40 (1) |       |                  |                      |          |
| M-L    | 0 / 0            | -18.5      | -18.5 0.10 (4) |       |                  |                      |          |

#### DESIGN CRITERIA

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

SPACING = 24.0 IN. G.C.

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

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

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

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

ALLOWABLE DEFL.(LL) = L/360 (1.26")  
CALCULATED VERT. DEFL.(LL) = L/999 (0.16")  
ALLOWABLE DEFL.(TL) = L/360 (1.26")  
CALCULATED VERT. DEFL.(TL) = L/999 (0.29")

CSI: TC=0.88/1.00 (I-J:1), BC=0.40/1.00 (M-O:1), WB=0.87/1.00 (O-I:1), SS=0.28/1.00 (I-J:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE HEELS OFF

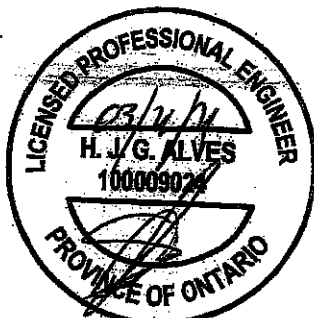
TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

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.

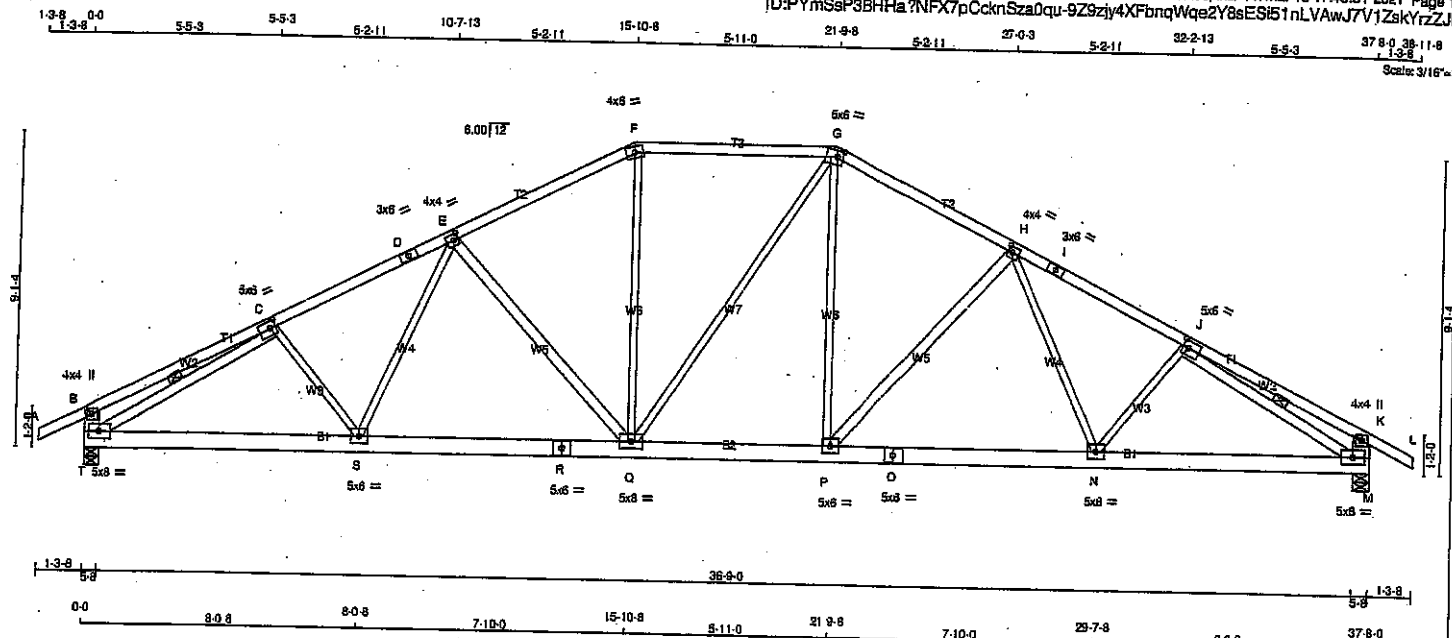
JSI GRIP= 0.89 (J) (INPUT = 0.90)  
JSI METAL= 0.86 (S) (INPUT = 1.00)



Structural component only  
DWG# T-2108054

|                                 |                          |                      |                 |                                     |          |
|---------------------------------|--------------------------|----------------------|-----------------|-------------------------------------|----------|
| JOB NAME<br><b>417413</b>       | TRUSS NAME<br><b>T26</b> | QUANTITY<br><b>8</b> | PLY<br><b>1</b> | JOB DESC.<br><b>GREENPARK HOMES</b> | DRWG NO. |
| Tamarack Roof Truss, Burlington |                          |                      |                 |                                     |          |

Version 8.420 S Jan 21 2021 MITek Industries, Inc. Fri Mar 19 17:49:31 2021 Page 1  
ID:PYmSaP3BHha7NFX7pCcknSzaDqu-9Z9zjy4XFbnqWqe2Y8sESi51nLVawJ7V1ZskYrzZJl



| CHORDS          | SIZE | DRY | LUMBER | DESCR. |
|-----------------|------|-----|--------|--------|
| A - D           | 2x4  | DRY | No.2   | SPF    |
| D - F           | 2x4  | DRY | No.2   | SPF    |
| F - G           | 2x4  | DRY | No.2   | SPF    |
| G - I           | 2x4  | DRY | No.2   | SPF    |
| I - L           | 2x4  | DRY | No.2   | SPF    |
| T - B           | 2x6  | DRY | No.2   | SPF    |
| M - K           | 2x8  | DRY | No.2   | SPF    |
| T - R           | 2x6  | DRY | No.2   | SPF    |
| R - O           | 2x6  | DRY | No.2   | SPF    |
| O - M           | 2x6  | DRY | No.2   | SPF    |
| ALL WEBS EXCEPT | 2x3  | DRY | No.2   | SPF    |
| E - Q           | 2x4  | DRY | No.2   | SPF    |
| P - H           | 2x4  | DRY | No.2   | SPF    |
| T - C           | 2x4  | DRY | No.2   | SPF    |
| J - M           | 2x4  | DRY | No.2   | SPF    |

DRY: SEASONED LUMBER

PLATES (table is in inches)

| JT TYPE     | PLATES | W   | LEN | Y    | X    |
|-------------|--------|-----|-----|------|------|
| B - TMV+p   | MT20   | 4.0 | 4.0 |      |      |
| O - TMVW-t  | MT20   | 5.0 | 6.0 | 2.50 | 2.00 |
| D - TS-t    | MT20   | 3.0 | 6.0 |      |      |
| E - TMVW-t  | MT20   | 4.0 | 4.0 | 2.00 | 1.50 |
| F - TTW-m   | MT20   | 4.0 | 6.0 |      |      |
| G - TTWV-m  | MT20   | 5.0 | 6.0 | 2.25 | 2.00 |
| H - TMVW-t  | MT20   | 4.0 | 4.0 | 2.00 | 1.50 |
| I - TS-t    | MT20   | 3.0 | 6.0 |      |      |
| J - TMVW-t  | MT20   | 5.0 | 6.0 | 2.50 | 2.00 |
| K - TMV+p   | MT20   | 4.0 | 4.0 |      |      |
| M - BMVW-t  | MT20   | 5.0 | 8.0 |      |      |
| N, P, S     |        |     |     |      |      |
| N - BMVW-t  | MT20   | 5.0 | 6.0 |      |      |
| O - BS-t    | MT20   | 5.0 | 6.0 |      |      |
| Q - BMVWV-t | MT20   | 5.0 | 8.0 |      |      |
| R - BS-t    | MT20   | 5.0 | 6.0 |      |      |
| T - BMVW-t  | MT20   | 5.0 | 8.0 |      |      |

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

| JT | FACTORED GROSS REACTION |      | MAXIMUM FACTORED GROSS REACTION |      | INPUT BRG | REQD BRG |
|----|-------------------------|------|---------------------------------|------|-----------|----------|
|    | VERT                    | HORZ | DOWN                            | HORZ |           |          |
| T  | 2201                    | 0    | 2201                            | 0    | 5-8       | 5-8      |
| M  | 2201                    | 0    | 2201                            | 0    | 5-8       | 5-8      |

UNFACTORED REACTIONS

| MAXIMUM COMPONENT REACTIONS |          |          |       |            |       |         |       |
|-----------------------------|----------|----------|-------|------------|-------|---------|-------|
| JT                          | COMBINED | SNOW     | LIVE  | PERM. LIVE | WIND  | DEAD    | SOIL  |
| T                           | 1554     | 1033 / 0 | 0 / 0 | 0 / 0      | 0 / 0 | 521 / 0 | 0 / 0 |
| M                           | 1554     | 1033 / 0 | 0 / 0 | 0 / 0      | 0 / 0 | 521 / 0 | 0 / 0 |

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.67 FT.

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

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

1 LATERAL BRACE(S) AT 1/2 LENGTH OF C-T, J-M.

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

LOADING

TOTAL LOAD CASES: (4)

| MEMB. | MAX. FACTORED |                  | FACTORED         |             | MAX. UNBRACED LENGTH | MEMB. | MAX. FACTORED |          |
|-------|---------------|------------------|------------------|-------------|----------------------|-------|---------------|----------|
|       | FORCE (LBS)   | VERT. LOAD (PLF) | LC1 MAX CSI (LC) | FORCE (LBS) |                      |       | MAX CSI (LC)  |          |
| FR-TO |               | FROM             | TO               |             |                      | FR-TO |               |          |
| A-B   | 0 / 28        | -91.8            | -91.8            | 0.12 (1)    | 10.00                | C-S   | -112 / 38     | 0.04 (1) |
| B-C   | 0 / 20        | -91.8            | -91.8            | 0.32 (1)    | 10.00                | S-E   | 0 / 260       | 0.08 (4) |
| C-D   | -3053 / 0     | -91.8            | -91.8            | 0.43 (1)    | 3.67                 | E-Q   | -671 / 0      | 0.85 (1) |
| D-E   | -3053 / 0     | -91.8            | -91.8            | 0.43 (1)    | 3.67                 | Q-G   | 0 / 835       | 0.14 (1) |
| E-F   | -2470 / 0     | -91.8            | -91.8            | 0.39 (1)    | 4.05                 | G-F   | 0 / 4         | 0.00 (1) |
| F-G   | -2196 / 0     | -91.8            | -91.8            | 0.49 (1)    | 4.09                 | P-G   | 0 / 830       | 0.14 (1) |
| G-H   | -2468 / 0     | -91.8            | -91.8            | 0.39 (1)    | 4.05                 | P-H   | -673 / 0      | 0.66 (1) |
| H-I   | -3054 / 0     | -91.8            | -91.8            | 0.43 (1)    | 3.67                 | H-N   | 0 / 264       | 0.06 (4) |
| I-J   | -3054 / 0     | -91.8            | -91.8            | 0.43 (1)    | 3.67                 | N-J   | -112 / 38     | 0.04 (1) |
| J-K   | 0 / 20        | -91.8            | -91.8            | 0.32 (1)    | 10.00                | T-C   | -3335 / 0     | 0.63 (1) |
| K-L   | 0 / 28        | -91.8            | -91.8            | 0.12 (1)    | 10.00                | J-M   | -3336 / 0     | 0.63 (1) |
| T-S   | -324 / 0      | 0.0              | 0.0              | 0.02 (1)    | 7.81                 |       |               |          |
| S-R   | -324 / 0      | 0.0              | 0.0              | 0.02 (1)    | 7.81                 |       |               |          |

DESIGN CRITERIA

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

SPACING = 24.0 IN C/C

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

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

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

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

ALLOWABLE DEFL.(LL) = L/360 (1.26")  
CALCULATED VERT. DEFL.(LL) = L/999 (0.13")  
ALLOWABLE DEFL.(TL) = L/360 (1.26")  
CALCULATED VERT. DEFL.(TL) = L/999 (0.26")

CSI: TC=0.49/1.00 (F-G:1), BC=0.41/1.00 (S-T:1), WB=0.66/1.00 (H-P:1), SS=0.21/1.00 (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 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 (M) (INPUT = 0.90)  
JSI METAL= 0.75 (J) (INPUT = 1.00)

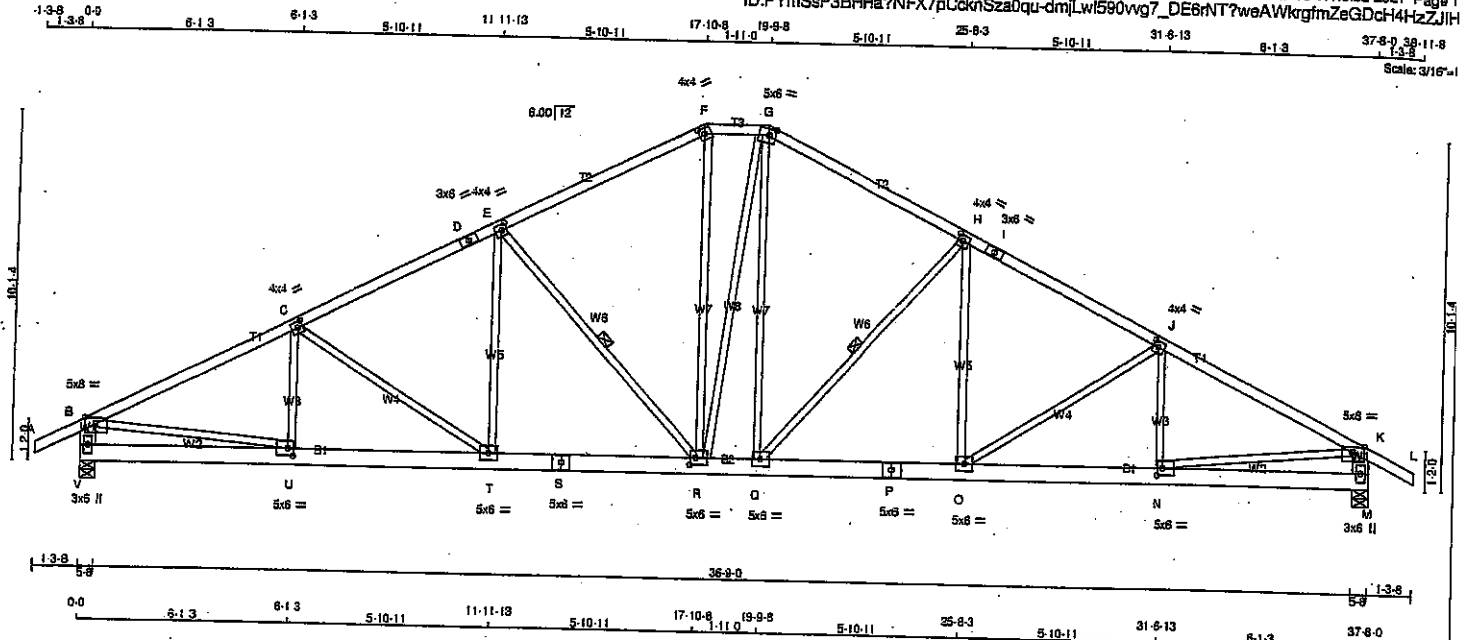


Structural component only  
DWG# T-2108055

| JOB NAME | TRUSS NAME | QUANTITY | PLY | JOB DESC.       | TRUSS DESC. | DRWG NO. |
|----------|------------|----------|-----|-----------------|-------------|----------|
| 417413   | T27        | 2        | 1   | GREENPARK HOMES |             |          |

Tamarack Roof Truss, Burlington

Version 8.420 S Jan 21 2021 MTEK Industries, Inc. Fri Mar 19 17:49:32 2021 Page 1  
ID:PYmSsP3BHha?NFX7pCcknSza0qu-dmJLw1590vvg7\_DE6rNT7waAWkgfmZeGDch4HzZJIH



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

DRY: SEASONED LUMBER.

PLATES (table is in inches)

| JT. TYPE   | PLATES | W   | LEN | Y    | X    |
|------------|--------|-----|-----|------|------|
| B - TMVW-p | MT20   | 5.0 | 8.0 | Edge |      |
| C, E, H, J |        |     |     |      |      |
| C - TMVW-t | MT20   | 4.0 | 4.0 | 2.00 | 1.75 |
| D - TS-t   | MT20   | 3.0 | 6.0 |      |      |
| F - TTW-h  | MT20   | 4.0 | 4.0 | 2.00 | 1.75 |
| G - TTW-m  | MT20   | 5.0 | 6.0 | 2.25 | 2.25 |
| I - TS-t   | MT20   | 3.0 | 6.0 |      |      |
| K - TMVW-p | MT20   | 5.0 | 8.0 | Edge |      |
| M - BMV1-p | MT20   | 3.0 | 6.0 |      |      |
| N - BMVW-t | MT20   | 5.0 | 6.0 | 2.50 | 2.00 |
| O, Q, T    |        |     |     |      |      |
| O - BMVW-t | MT20   | 5.0 | 6.0 |      |      |
| P - BS-t   | MT20   | 5.0 | 6.0 |      |      |
| R - BMVW-t | MT20   | 5.0 | 6.0 | 2.50 | 2.00 |
| S - BS-t   | MT20   | 5.0 | 6.0 |      |      |
| U - BMVW-t | MT20   | 5.0 | 6.0 | 2.50 | 2.00 |
| V - BMV1-p | MT20   | 3.0 | 6.0 |      |      |

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

NOTES: (1)

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

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

##### BEARINGS

| JT | FACTORED GROSS REACTION | MAXIMUM FACTORED GROSS REACTION | INPUT BRG | REQD BRG |
|----|-------------------------|---------------------------------|-----------|----------|
| V  | 2201                    | 0                               | 0         | 5-8      |
| M  | 2201                    | 0                               | 0         | 5-8      |

##### UNFACTORED REACTIONS

| JT | 1ST CASE COMBINED | MAX. MIN. SNOW | LIVE | PERM. LIVE | WIND | DEAD | SOIL |
|----|-------------------|----------------|------|------------|------|------|------|
| V  | 1554              | 1033           | 0    | 0          | 0    | 0    | 0    |
| M  | 1554              | 1033           | 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 = 3.42 FT.  
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

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

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

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

##### LOADING

TOTAL LOAD CASES: (4)

| CHORDS |                           |                           |                           | WEBS  |                           |                           |                           |
|--------|---------------------------|---------------------------|---------------------------|-------|---------------------------|---------------------------|---------------------------|
| MEMB.  | MAX. FACTORED FORCE (LBS) | FACTORED VERT. LOAD (PLF) | MAX. UNBRACED LENGTH (FT) | MEMB. | MAX. FACTORED FORCE (LBS) | MAX. UNBRACED LENGTH (FT) | MAX. UNBRACED LENGTH (FT) |
| FR-TO  |                           |                           |                           | FR-TO |                           |                           |                           |
| A-B    | 0 / 28                    | -91.8                     | -91.8 0.12 (1)            | U-C   | -284 / 8                  | 0.07 (1)                  |                           |
| B-C    | -3161 / 0                 | -91.8                     | -91.8 0.62 (1)            | C-T   | -349 / 0                  | 0.32 (1)                  |                           |
| C-D    | -2857 / 0                 | -91.8                     | -91.8 0.50 (1)            | T-E   | 0 / 293                   | 0.07 (1)                  |                           |
| D-E    | -2857 / 0                 | -91.8                     | -91.8 0.50 (1)            | E-R   | -823 / 0                  | 0.46 (1)                  |                           |
| E-F    | -2272 / 0                 | -91.8                     | -91.8 0.47 (1)            | R-F   | 0 / 702                   | 0.18 (1)                  |                           |
| F-G    | -2017 / 0                 | -91.8                     | -91.8 0.08 (1)            | R-G   | 0 / 69                    | 0.02 (1)                  |                           |
| G-H    | -2258 / 0                 | -91.8                     | -91.8 0.47 (1)            | Q-H   | 0 / 628                   | 0.14 (1)                  |                           |
| H-I    | -2862 / 0                 | -91.8                     | -91.8 0.50 (1)            | Q-H   | -847 / 0                  | 0.47 (1)                  |                           |
| I-J    | -2862 / 0                 | -91.8                     | -91.8 0.50 (1)            | Q-H   | 0 / 320                   | 0.07 (1)                  |                           |
| J-K    | -3159 / 0                 | -91.8                     | -91.8 0.62 (1)            | Q-J   | -342 / 0                  | 0.32 (1)                  |                           |
| K-L    | 0 / 28                    | -91.8                     | -91.8 0.12 (1)            | N-J   | -272 / 5                  | 0.07 (1)                  |                           |
| V-B    | -2139 / 0                 | 0.0                       | 0.0 0.14 (1)              | B-U   | 0 / 2871                  | 0.65 (1)                  |                           |
| M-K    | -2138 / 0                 | 0.0                       | 0.0 0.14 (1)              | N-K   | 0 / 2869                  | 0.65 (1)                  |                           |
| V-U    | 0 / 0                     | -18.5                     | -18.5 0.08 (4)            |       |                           |                           |                           |
| U-T    | 0 / 2848                  | -18.5                     | -18.5 0.40 (1)            |       |                           |                           |                           |
| T-S    | 0 / 2555                  | -18.5                     | -18.5 0.37 (1)            |       |                           |                           |                           |
| S-R    | 0 / 2555                  | -18.5                     | -18.5 0.37 (1)            |       |                           |                           |                           |
| R-Q    | 0 / 2004                  | -18.5                     | -18.5 0.31 (1)            |       |                           |                           |                           |
| Q-P    | 0 / 2559                  | -18.5                     | -18.5 0.35 (1)            |       |                           |                           |                           |
| P-O    | 0 / 2559                  | -18.5                     | -18.5 0.35 (1)            |       |                           |                           |                           |
| O-N    | 0 / 2848                  | -18.5                     | -18.5 0.39 (1)            |       |                           |                           |                           |
| N-M    | 0 / 0                     | -18.5                     | -18.5 0.08 (4)            |       |                           |                           |                           |

TOTAL WEIGHT = 2 X 194 = 388 lb

##### DESIGN CRITERIA

##### SPECIFIED LOADS:

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

SPACING = 24.0 IN/C

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

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

THIS DESIGN COMPLIES WITH:

- PART 9 OF CBC 2015, ABC 2019
- PART 9 OF CBC 2012 (2019 AMENDMENT)
- CSA 086-14
- TPIC 2014

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

ALLOWABLE DEFL.(LL) = L/360 (1.28")  
CALCULATED VERT. DEFL.(LL) = L/999 (0.15")  
ALLOWABLE DEFL.(TL) = L/360 (1.28")  
CALCULATED VERT. DEFL.(TL) = L/999 (0.29")

CSI: TC=0.82/1.00 (B-C:1), BC=0.40/1.00 (T-U:1), WB=0.65/1.00 (B-U:1), SS=0.23/1.00 (B-C:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE HEELS OFF

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

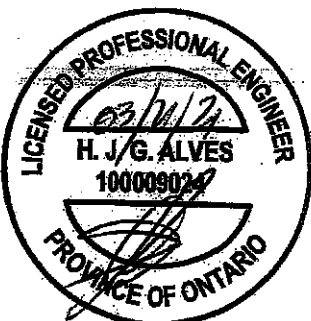
##### NAIL VALUES

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

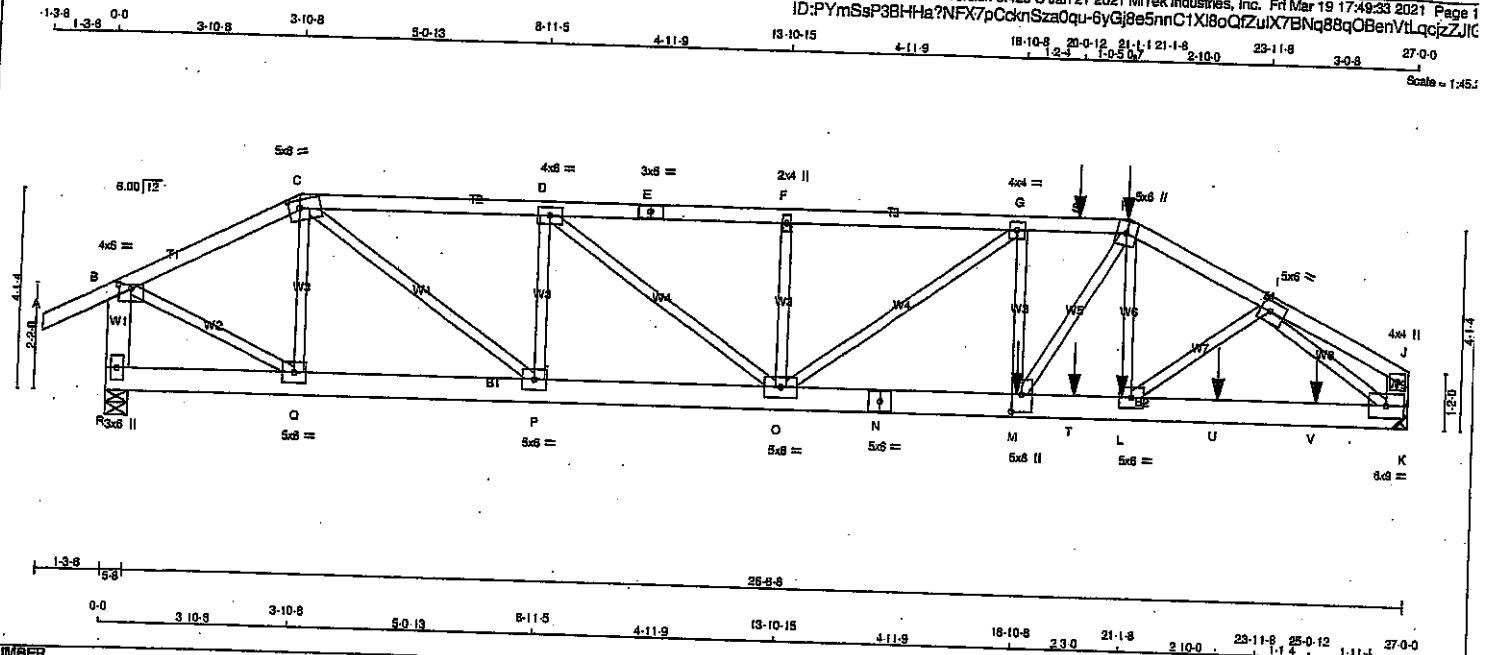
PLATE ROTATION TOL = 5.0 Deg.

JSI GRIP = 0.88 (F) (INPUT = 0.90)  
JSI METAL = 0.65 (L) (INPUT = 1.00)



Structural component only  
DWG# T-2108056

|                                 |                          |                      |                 |                                     |          |
|---------------------------------|--------------------------|----------------------|-----------------|-------------------------------------|----------|
| JOB NAME<br><b>417413</b>       | TRUSS NAME<br><b>T28</b> | QUANTITY<br><b>1</b> | PLY<br><b>2</b> | JOB DESC.<br><b>GREENPARK HOMES</b> | DRWG NO. |
| Tamarack Roof Truss, Burlington |                          |                      |                 |                                     |          |



| CHORDS          | SIZE | DRY | LUMBER | DESCR. |
|-----------------|------|-----|--------|--------|
| A - C           | 2x4  | DRY | No.2   | SPF    |
| C - E           | 2x4  | DRY | No.2   | SPF    |
| E - H           | 2x4  | DRY | No.2   | SPF    |
| H - J           | 2x4  | DRY | No.2   | SPF    |
| R - B           | 2x6  | DRY | No.2   | SPF    |
| K - J           | 2x6  | DRY | No.2   | SPF    |
| R - N           | 2x6  | DRY | No.2   | SPF    |
| N - K           | 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-C 1                                    | 12                   | TOP         |
| C-E 1                                    | 12                   | TOP         |
| E-H 1                                    | 12                   | TOP         |
| H-J 1                                    | 12                   | TOP         |
| R-B 2                                    | 12                   | TOP         |
| K-J 2                                    | 12                   | TOP         |
| BOTTOM CHORDS : (0.122"x3") SPIRAL NAILS |                      |             |
| R-N 2                                    | 12                   | TOP         |
| N-K 2                                    | 12                   | TOP         |
| WEBS : (0.122"x3") SPIRAL NAILS          |                      |             |
| 2x3 1                                    | 6                    | SIDE(183.1) |
| G-M 1                                    | 3                    | SIDE(660.0) |

NAILS TO BE DRIVEN FROM ONE SIDE ONLY.

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

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

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

| FACTORED GROSS REACTION |      |      | MAXIMUM FACTORED GROSS REACTION |      |        | INFLT BRG  | REQD BRG |
|-------------------------|------|------|---------------------------------|------|--------|------------|----------|
| JT                      | VERT | HORZ | DOWN                            | HORZ | UPLIFT | IN-SX      | IN-SX    |
| R                       | 2715 | 0    | 2715                            | 0    | 0      | 5-8        | 5-8      |
| K                       | 4212 | 0    | 4212                            | 0    | 0      | MECHANICAL |          |

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

#### UNFACTORED REACTIONS

| 1ST CASE | MAX. MIN. COMPONENT REACTIONS |      |      |            |      |      |
|----------|-------------------------------|------|------|------------|------|------|
|          | COMBINED                      | SNOW | LIVE | PERM. LIVE | WIND | DEAD |
| JT 1914  | 1292                          | 0    | 0    | 0          | 0    | 622  |
| R 2972   | 1987                          | 0    | 0    | 0          | 0    | 985  |

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

#### BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.33 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. UNBRACED LENGTH | MAX. FACTORED |              | MEMB.     | MAX. FACTORED |          |
| MEMB.         | FORCE (LBS) | VERT. LOAD (PLF) | LCI MAX CSI (LC) |                      | FORCE (LBS)   | MAX CSI (LC) |           |               |          |
| FR-TO         |             | FROM TO          |                  |                      | FR-TO         |              |           |               |          |
| A-B           | 0 / 28      | -91.8            | -91.8            | 0.07 (1)             | 10.00         | C-C          | -1003 / 0 |               | 0.13 (1) |
| B-C           | -2823 / 0   | -91.8            | -91.8            | 0.17 (1)             | 5.29          | L-H          | -418 / 0  |               | 0.05 (1) |
| C-D           | -5074 / 0   | -91.8            | -91.8            | 0.30 (1)             | 4.08          | B-Q          | 0 / 2762  |               | 0.34 (1) |
| D-E           | -6828 / 0   | -91.8            | -91.8            | 0.39 (1)             | 3.48          | M-G          | 0 / 321   |               | 0.04 (1) |
| E-F           | -6828 / 0   | -91.8            | -91.8            | 0.39 (1)             | 3.48          | M-H          | 0 / 3312  |               | 0.41 (1) |
| F-G           | -6828 / 0   | -91.8            | -91.8            | 0.34 (1)             | 3.54          | O-G          | -1226 / 0 |               | 0.41 (1) |
| G-S           | -7808 / 0   | -91.8            | -91.8            | 0.28 (1)             | 3.33          | C-P          | 0 / 3200  |               | 0.40 (1) |
| S-H           | -7808 / 0   | -91.8            | -91.8            | 0.28 (1)             | 3.33          | O-F          | -454 / 0  |               | 0.06 (1) |
| H-I           | -6832 / 0   | -91.8            | -91.8            | 0.23 (1)             | 3.59          | P-D          | -1825 / 0 |               | 0.23 (1) |
| I-J           | -2 / 2      | -91.8            | -91.8            | 0.07 (1)             | 10.00         | D-O          | 0 / 2195  |               | 0.27 (1) |
| J-R           | -2894 / 0   | 0.0              | 0.0              | -0.11 (1)            | 7.81          | L-I          | 0 / 1089  |               | 0.13 (1) |
| K-J           | -132 / 0    | 0.0              | 0.0              | 0.00 (1)             | 7.81          | I-K          | -8602 / 0 |               | 0.78 (1) |
|               |             |                  |                  |                      |               |              |           |               |          |
| R-Q           | 0 / 0       | -18.5            | -18.5            | 0.03 (4)             | 10.00         |              |           |               |          |
| Q-P           | 0 / 2494    | -18.5            | -18.5            | 0.19 (1)             | 10.00         |              |           |               |          |
| P-O           | 0 / 5074    | -18.5            | -18.5            | 0.37 (1)             | 10.00         |              |           |               |          |
| O-N           | 0 / 7808    | -18.5            | -18.5            | 0.59 (1)             | 10.00         |              |           |               |          |
| N-M           | 0 / 7808    | -18.5            | -18.5            | 0.59 (1)             | 10.00         |              |           |               |          |
| M-T           | 0 / 8117    | -18.5            | -18.5            | 0.48 (1)             | 10.00         |              |           |               |          |
| T-L           | 0 / 8117    | -18.5            | -18.5            | 0.48 (1)             | 10.00         |              |           |               |          |
| L-U           | 0 / 8250    | -18.5            | -18.5            | 0.39 (1)             | 10.00         |              |           |               |          |
| U-V           | 0 / 8250    | -18.5            | -18.5            | 0.39 (1)             | 10.00         |              |           |               |          |
| V-K           | 0 / 8250    | -18.5            | -18.5            | 0.39 (1)             | 10.00         |              |           |               |          |

#### SPECIFIED CONCENTRATED LOADS (LBS)

| LOC.      | LOC.  | MAX.  | MAX+ | FACE  | DIR. | TYPE  | HEEL | CONN. |
|-----------|-------|-------|------|-------|------|-------|------|-------|
| H 21-1-1  | -263  | -263  |      | FRONT | VERT | TOTAL |      | C1    |
| L 21-0-12 | -21   | -21   |      | FRONT | VERT | TOTAL |      | C1    |
| M 18-10-8 | -2272 | -2272 |      | FRONT | VERT | TOTAL |      | C1    |
| S 20-0-12 | -78   | -78   |      | FRONT | VERT | TOTAL |      | C1    |
| T 20-0-12 | -21   | -21   |      | FRONT | VERT | TOTAL |      | C1    |
| U 23-0-12 | -21   | -21   |      | FRONT | VERT | TOTAL |      | C1    |
| V 25-0-12 | -20   | -20   |      | 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, ABC 2019  
- PART 9 OF CBC 2012 (2019 AMENDMENT)  
- CSA 086-14  
- TPIC 2014

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

ALLOWABLE DEFL.(LL) = L/360 (0.30")  
CALCULATED VERT. DEFL.(LL) = L/999 (0.14")  
ALLOWABLE DEFL.(TL) = L/360 (0.30")  
CALCULATED VERT. DEFL.(TL) = L/999 (0.26")

CS: TC=0.39/1.00 (D-F:1), BC=0.59/1.00 (M-O:1), WB=0.78/1.00 (I-K:1), SS=0.12/1.00 (C-D:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE HEELS OFF

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

#### NAIL VALUES

| PLATE GRIP (DRY) | SHEAR (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 = 0.89 (I) (INPUT = 0.90)

JSI METAL = 0.79 (I) (INPUT = 1.00)



Structural component only  
DWG# T-2108057/12

|                                 |                   |               |          |                              |          |
|---------------------------------|-------------------|---------------|----------|------------------------------|----------|
| JOB NAME<br>417413              | TRUSS NAME<br>T28 | QUANTITY<br>1 | PLY<br>2 | JOB DESC.<br>GREENPARK HOMES | DRWG NO. |
| Tamarack Roof Truss, Burlington |                   | TRUSS DESC.   |          |                              |          |

Version 8.420 S Jan 21 2021 MiTek Industries, Inc. Fri Mar 19 17:49:33 2021 Page 2  
ID:PYmSsP3BH8a7NFX7pCckmSza0qu-6yGf8e5nnC1Xl8aQfZuiX7BNq88qOBanVilacizZJkG

| PLATES (table is in inches) |         |        |     |     |           |
|-----------------------------|---------|--------|-----|-----|-----------|
| JT                          | TYPE    | PLATES | W   | LEN | Y X       |
| B                           | TMVW-p  | MT20   | 4.0 | 6.0 | 1.00 3.00 |
| C                           | TTWW-m  | MT20   | 5.0 | 8.0 | 2.00 2.75 |
| D                           | TMVW-t  | MT20   | 4.0 | 6.0 |           |
| E                           | TS-t    | MT20   | 3.0 | 6.0 |           |
| F                           | TMVW-w  | MT20   | 2.0 | 4.0 |           |
| G                           | TMVW-t  | MT20   | 4.0 | 4.0 |           |
| H                           | TTWW-m  | MT20   | 5.0 | 6.0 |           |
| I                           | TMVW-t  | MT20   | 5.0 | 6.0 | 2.50 2.25 |
| J                           | TMV-p   | MT20   | 4.0 | 4.0 |           |
| K                           | BMVW1-t | MT20   | 6.0 | 9.0 |           |
| L, P, Q                     |         |        |     |     |           |
| L                           | BMVW-t  | MT20   | 5.0 | 6.0 |           |
| M                           | BMVW-t  | MT20   | 5.0 | 8.0 | 4.25 2.50 |
| N                           | BS-t    | MT20   | 5.0 | 6.0 |           |
| O                           | BMVW-t  | MT20   | 5.0 | 8.0 |           |
| R                           | BMV1-p  | MT20   | 3.0 | 6.0 |           |

#### CONNECTION REQUIREMENTS

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

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

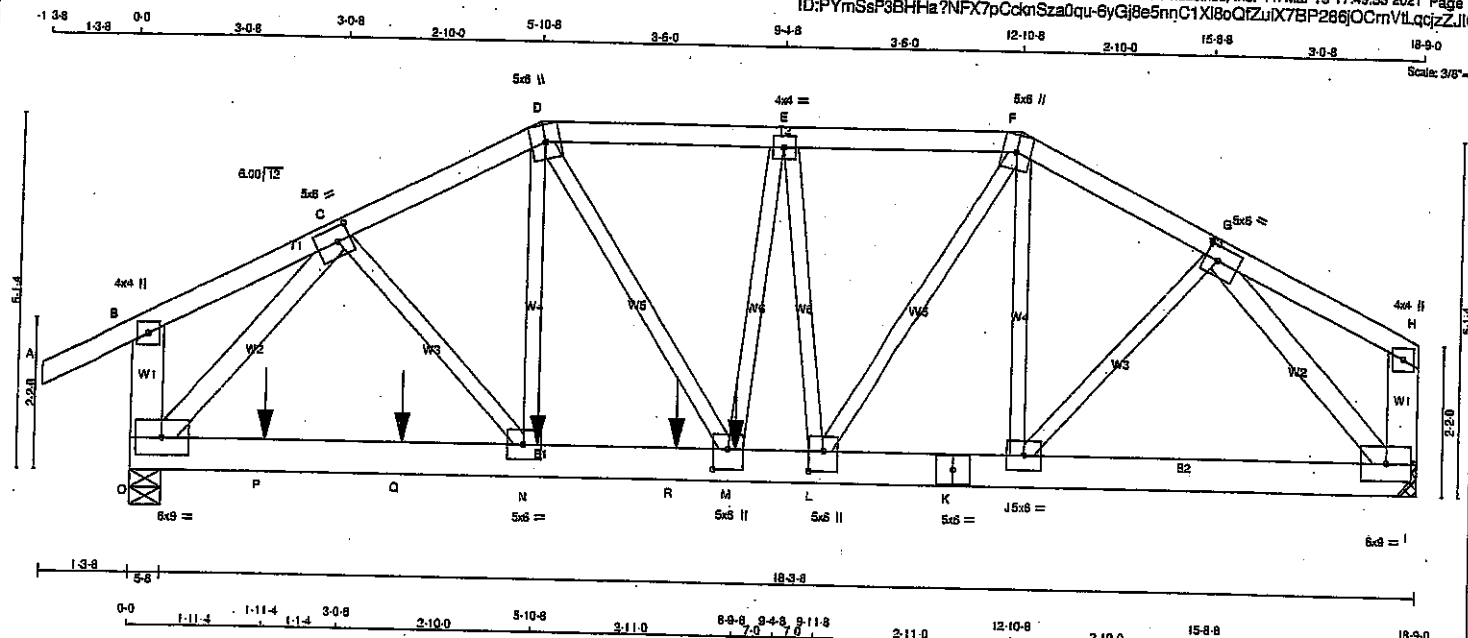


Structural component only  
DWG# T-2108057 *ML*

| JOB NAME | TRUSS NAME | QUANTITY | PLY | JOB DESC.   | GREENPARK HOMES | DRWG NO. |
|----------|------------|----------|-----|-------------|-----------------|----------|
| 417413   | T29        | 1        | 1   | TRUSS DESC. |                 |          |

Tamarack Roof Truss, Burlington

Version 8.420 5 Jan 21 2021 MITek Industries, Inc. Fri Mar 19 17:49:33 2021 Page 1  
ID:PYmSsP3BHhZ?NFX7pCcknSza0qu-6yGj8e5nqC1Xl8oQfZuIX7BP286jOCmVILqczZJIC



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

DRY: SEASONED LUMBER.

#### PLATES (table is in inches)

| JT | TYPE   | PLATES | W   | LEN | Y    | X    |
|----|--------|--------|-----|-----|------|------|
| B  | TMV-p  | MT20   | 4.0 | 4.0 |      |      |
| C  | TMVW-t | MT20   | 5.0 | 6.0 | 2.50 | 2.25 |
| D  | TTVW-m | MT20   | 5.0 | 6.0 |      |      |
| E  | TMVW-t | MT20   | 4.0 | 4.0 |      |      |
| F  | TTVW-m | MT20   | 5.0 | 6.0 |      |      |
| G  | TMVW-t | MT20   | 5.0 | 6.0 | 2.50 | 2.25 |
| H  | TMV-p  | MT20   | 4.0 | 4.0 |      |      |
| I  | BMVW-t | MT20   | 6.0 | 9.0 |      |      |
| J  | BMVW-t | MT20   | 5.0 | 6.0 |      |      |
| K  | BS-t   | MT20   | 5.0 | 6.0 |      |      |
| L  | BMVW-t | MT20   | 5.0 | 6.0 | 3.50 | 2.50 |
| M  | BMVW-t | MT20   | 5.0 | 6.0 | 3.50 | 2.50 |
| N  | BMVW-t | MT20   | 5.0 | 6.0 |      |      |
| O  | BMVW-t | MT20   | 6.0 | 9.0 |      |      |

#### NOTES (1)

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

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

| BEARINGS |      | FACTORED GROSS REACTION |      | MAXIMUM FACTORED GROSS REACTION |        | INPUT |     | REQD  |            |
|----------|------|-------------------------|------|---------------------------------|--------|-------|-----|-------|------------|
| JT       | VERT | HORIZ                   | DOWN | HORIZ                           | UPLIFT | IN-SX | BRG | IN-SX | MECHANICAL |
| I        | 2180 | 0                       | 2180 | 0                               | 0      | 5-8   | 5-8 |       |            |
| O        | 2989 | 0                       | 2989 | 0                               | 0      | 5-8   | 5-8 |       |            |

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

#### UNFACTORED REACTIONS

| JT | 1ST CASE | SNOW     | LIVE  | PERM. LIVE | WIND  | DEAD    | SOIL  |
|----|----------|----------|-------|------------|-------|---------|-------|
| I  | 1521     | 1031 / 0 | 0 / 0 | 0 / 0      | 0 / 0 | 490 / 0 | 0 / 0 |
| O  | 2102     | 1444 / 0 | 0 / 0 | 0 / 0      | 0 / 0 | 658 / 0 | 0 / 0 |

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

#### BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.55 FT.  
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

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

#### LOADING

TOTAL LOAD CASES: (4)

| CHORDS |             | FACTORED   |       | FACTORED |        | WEBS  |             | FACTORED |        |
|--------|-------------|------------|-------|----------|--------|-------|-------------|----------|--------|
| MEMB.  | FORCE (LBS) | VERT. LOAD | LC1   | MAX      | MAX    | MEMB. | FORCE (LBS) | MAX      | MAX    |
| FR-TO  |             | FROM       | TO    | CSI (LC) | UNBRAC | FR-TO |             | CSI (LC) | UNBRAC |
| A-B    | 0 / 28      | -91.8      | -91.8 | 0.13 (1) | 10.00  | I-D   | 0 / 432     | 0.11 (1) | 10.00  |
| B-C    | 0 / 11      | -91.8      | -91.8 | 0.11 (1) | 10.00  | J-F   | -461 / 0    | 0.17 (1) | 10.00  |
| C-D    | -3225 / 0   | -91.8      | -91.8 | 0.25 (1) | 3.67   | D-M   | 0 / 886     | 0.22 (1) | 10.00  |
| D-E    | -3225 / 0   | -91.8      | -91.8 | 0.32 (1) | 3.55   | M-E   | 0 / 833     | 0.16 (1) | 10.00  |
| E-F    | -3124 / 0   | -91.8      | -91.8 | 0.29 (1) | 3.67   | E-L   | -1009 / 0   | 0.38 (1) | 10.00  |
| F-G    | -2578 / 0   | -91.8      | -91.8 | 0.22 (1) | 4.08   | L-F   | 0 / 1593    | 0.39 (1) | 10.00  |
| G-H    | 0 / 12      | -91.8      | -91.8 | 0.12 (1) | 10.00  | C-N   | 0 / 957     | 0.24 (1) | 10.00  |
| O-B    | -235 / 0    | 0.0        | 0.0   | 0.02 (1) | 7.81   | C-C   | -3332 / 0   | 0.71 (1) | 10.00  |
| I-H    | -107 / 0    | 0.0        | 0.0   | 0.01 (1) | 7.81   | J-G   | 0 / 715     | 0.18 (1) | 10.00  |
|        |             |            |       |          |        | G-I   | -2706 / 0   | 0.57 (1) | 10.00  |
| O-P    | 0 / 2237    | -18.5      | -18.5 | 0.87 (1) | 10.00  |       |             |          |        |
| P-Q    | 0 / 2237    | -18.5      | -18.5 | 0.67 (1) | 10.00  |       |             |          |        |
| Q-N    | 0 / 2237    | -18.5      | -18.5 | 0.67 (1) | 10.00  |       |             |          |        |
| N-R    | 0 / 2868    | -18.5      | -18.5 | 0.73 (1) | 10.00  |       |             |          |        |
| R-M    | 0 / 2868    | -18.5      | -18.5 | 0.73 (1) | 10.00  |       |             |          |        |
| M-L    | 0 / 3234    | -18.5      | -18.5 | 0.66 (1) | 10.00  |       |             |          |        |
| L-K    | 0 / 2300    | -18.5      | -18.5 | 0.34 (1) | 10.00  |       |             |          |        |
| K-J    | 0 / 2300    | -18.5      | -18.5 | 0.34 (1) | 10.00  |       |             |          |        |
| J-I    | 0 / 1817    | -18.5      | -18.5 | 0.28 (1) | 10.00  |       |             |          |        |

#### SPECIFIED CONCENTRATED LOADS (LBS)

| JT | LOC.   | LC1   | MAX   | FACE  | DIR. | TYPE  | HEEL | CONN. |
|----|--------|-------|-------|-------|------|-------|------|-------|
| M  | 8-9-8  | -1208 | -1208 | FRONT | VERT | TOTAL | ---  | C1    |
| N  | 5-11-4 | -214  | -214  | FRONT | VERT | TOTAL | ---  | C1    |
| P  | 1-11-4 | -225  | -225  | FRONT | VERT | TOTAL | ---  | C1    |
| Q  | 3-11-4 | -214  | -214  | FRONT | VERT | TOTAL | ---  | C1    |
| R  | 7-11-4 | -214  | -214  | FRONT | VERT | TOTAL | ---  | C1    |

#### CONNECTION REQUIREMENTS

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

TOTAL WEIGHT = 102 lb

#### DESIGN CRITERIA

##### SPECIFIED LOADS:

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

SPACING = 24.0 IN. C/C

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

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

##### THIS DESIGN COMPLIES WITH:

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

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

ALLOWABLE DEFL.(LL) = L/360 (0.63")  
CALCULATED VERT. DEFL.(LL) = L/999 (0.07")  
ALLOWABLE DEFL.(TL) = L/360 (0.63")  
CALCULATED VERT. DEFL.(TL) = L/999 (0.13")

CSI: TC=0.32/1.00 (D-E-1), BC=0.73/1.00 (M-N-1),  
WB=0.71/1.00 (C-O-1), SS=0.30/1.00 (N-O-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 HELPS OFF

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

NAIL VALUES  
PLATE GRIP(DRY) SHEAR SECTION  
(PSI) (PLI) (PLI)  
MAX MIN MAX MIN  
MT20 .650 .371 .747 .788 .987 .1873

PLATE PLACEMENT TOL. = 0.250 inches

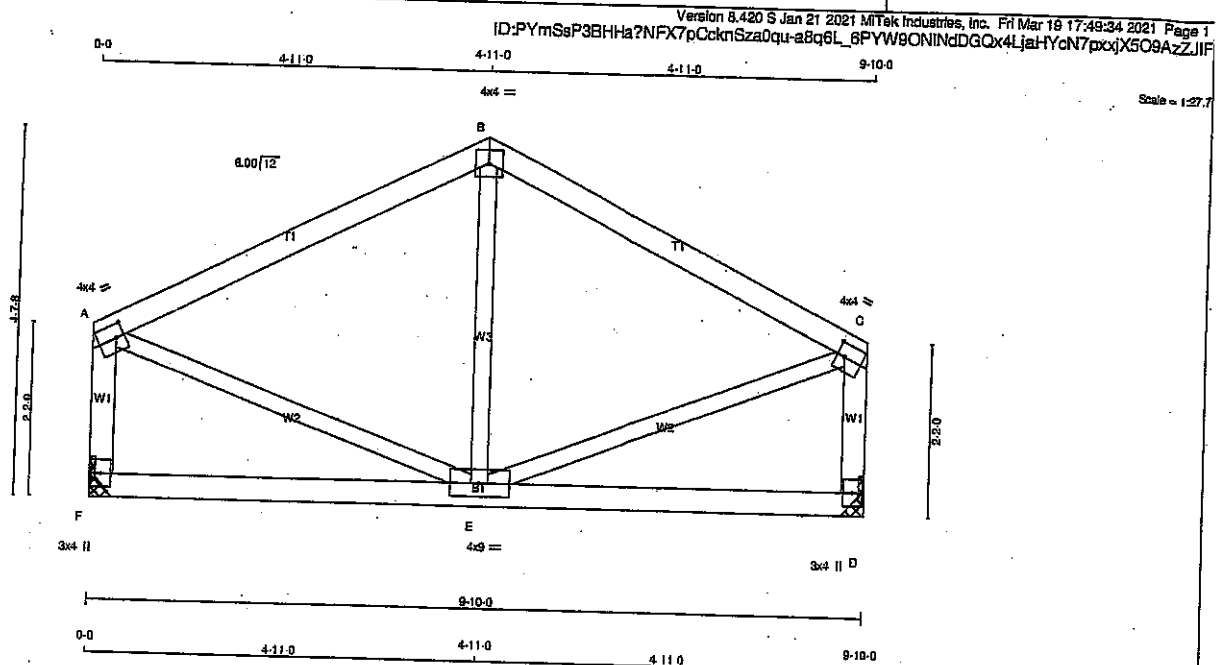
PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP=0.89 (L) (INPUT = 0.90)  
JSI METAL=0.76 (C) (INPUT = 1.00)



Structural component only  
DWG# T-2108058

|                                 |                          |                      |                 |                                     |          |
|---------------------------------|--------------------------|----------------------|-----------------|-------------------------------------|----------|
| JOB NAME<br><b>417413</b>       | TRUSS NAME<br><b>T30</b> | QUANTITY<br><b>1</b> | PLY<br><b>1</b> | JOB DESC.<br><b>GREENPARK HOMES</b> | DRWG NO. |
| Tamarack Roof Truss, Burlington |                          |                      |                 |                                     |          |



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

ALL WEBS 2x3 DRY No.2  
EXCEPT

DRY, SEASONED LUMBER.

#### PLATES (table is in inches)

| JT | TYPE    | PLATES | W   | LEN | Y    | X    |
|----|---------|--------|-----|-----|------|------|
| A  | TMVW-t  | MT20   | 4.0 | 4.0 | 2.00 | 1.25 |
| B  | TTW-p   | MT20   | 4.0 | 4.0 |      |      |
| C  | TMVW-t  | MT20   | 4.0 | 4.0 | 2.00 | 1.25 |
| D  | BMV1+p  | MT20   | 3.0 | 4.0 |      |      |
| E  | BMVWW-t | MT20   | 4.0 | 9.0 |      |      |
| 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

| FACTORED       | MAXIMUM FACTORED | INPUT | RECORD |
|----------------|------------------|-------|--------|
| GROSS REACTION | GROSS REACTION   | BRG   | BRG    |
| JT VERT        | DOWN             | HORIZ | UPLIFT |
| F 542          | 0                | 542   | 0      |
| D 542          | 0                | 542   | 0      |

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

#### UNFACTORED REACTIONS

| 1ST LOASE | MAX      | MIN   | COMPONENT REACTIONS |
|-----------|----------|-------|---------------------|
| JT        | COMBINED | SNOW  | LIVE                |
| F         | 383      | 252.0 | 0.0                 |
| D         | 383      | 252.0 | 0.0                 |

#### BRACING

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

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

#### LOADING

TOTAL LOAD CASES: (4)

| CHORDS | MAX. FACTORED | FACTORED             | WEBS  | MAX. FACTORED    |
|--------|---------------|----------------------|-------|------------------|
| MEMB.  | FORCE (LBS)   | VERT. LOAD (LBS)     | MEMB. | FORCE (LBS)      |
| FR-TO  |               | FROM TO              | FR-TO |                  |
| A-B    | -358.0        | -91.8 -91.8 0.28 (1) | E-B   | -131.36 0.04 (1) |
| B-C    | -358.0        | -91.8 -91.8 0.28 (1) | A-E   | 0.343 0.08 (1)   |
| F-A    | -507.0        | 0.0 0.0 0.06 (1)     | E-C   | 0.343 0.08 (1)   |
| D-C    | -507.0        | 0.0 0.0 0.06 (1)     |       |                  |
| F-E    | 0.0           | -18.5 -18.5 0.13 (4) |       |                  |
| E-D    | 0.0           | -18.5 -18.5 0.13 (4) |       |                  |

TOTAL WEIGHT = 39 lb (MIF)

#### DESIGN CRITERIA

##### SPECIFIED LOADS:

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

SPACING = 24.0 IN. C/C

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

THIS DESIGN COMPLIES WITH:

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

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

ALLOWABLE DEFL.(LL) = L/360 (0.33")  
CALCULATED VERT. DEFL.(LL) = L/999 (0.00")  
ALLOWABLE DEFL.(TL) = L/360 (0.33")  
CALCULATED VERT. DEFL.(TL) = L/999 (0.02")

CSI: TC=0.28/1.00 (A-B:1), BC=0.13/1.00 (E-F:4), WB=0.08/1.00 (C-E:1), SS=0.18/1.00 (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.

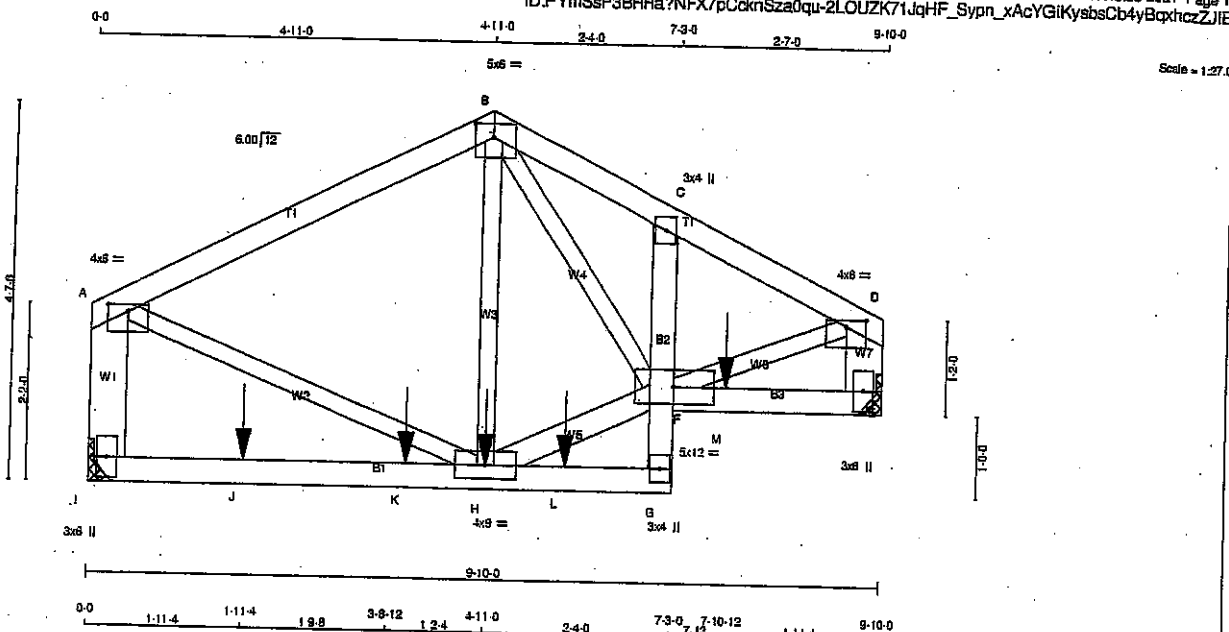
JSI GRIP= 0.52 (C) (INPUT = 0.90)  
JSI METAL= 0.16 (C) (INPUT = 1.00)



|          |            |          |     |             |                 |          |
|----------|------------|----------|-----|-------------|-----------------|----------|
| JOB NAME | TRUSS NAME | QUANTITY | PLY | JOB DESC.   | GREENPARK HOMES | DRWG NO. |
| 417413   | T31        | 1        | 1   | TRUSS DESC. |                 |          |

Tamarack Roof Truss, Burlington

Version 8.420 S Jan 21 2021 MTek Industries, Inc. Fri Mar 19 17:49:35 2021 Page 1  
ID:PYmSsP3BHha?NFX7pCcknSza0qu-2LOUZK71JqHF\_Sypn\_xAcYGiKysbsCb4yBqxhcZJIE



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

DRY: SEASONED LUMBER.

#### PLATES (table is in inches)

| JT | TYPE     | PLATES | W   | LEN  | Y    | X    |
|----|----------|--------|-----|------|------|------|
| A  | TMVW-p   | MT20   | 4.0 | 6.0  | 1.00 | 3.00 |
| B  | TTWW-p   | MT20   | 5.0 | 6.0  | 2.00 | 2.75 |
| C  | TMVW-p   | MT20   | 3.0 | 4.0  |      |      |
| D  | TMVW-p   | MT20   | 4.0 | 6.0  | 1.00 | 3.00 |
| E  | BMV1+p   | MT20   | 3.0 | 6.0  |      |      |
| F  | BMVWWW-I | MT20   | 5.0 | 12.0 |      |      |
| G  | BMV+p    | MT20   | 3.0 | 4.0  |      |      |
| H  | BMVWWW-I | MT20   | 4.0 | 9.0  |      |      |
| I  | BMV1+p   | MT20   | 3.0 | 6.0  |      |      |

#### NOTES:

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

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

| FACTORED       |      | MAXIMUM FACTORED |      |      | INPUT  | REQD       |       |
|----------------|------|------------------|------|------|--------|------------|-------|
| GROSS REACTION |      | GROSS REACTION   |      |      | BRG    | BRG        |       |
| JT             | VERT | HORZ             | DOWN | HORZ | UPLIFT | IN-SX      | IN-SX |
| I              | 1179 | 0                | 1179 | 0    | 0      | MECHANICAL |       |
| E              | 1165 | 0                | 1165 | 0    | 0      | MECHANICAL |       |

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

#### UNFACTORED REACTIONS

| 1ST CASE |          | MAX. MIN. COMPONENT REACTIONS |      |            |      |       |      |
|----------|----------|-------------------------------|------|------------|------|-------|------|
| JT       | COMBINED | SNOW                          | LIVE | PERM. LIVE | WIND | DEAD  | SOIL |
| I        | 830      | 587.0                         | 0.0  | 0.0        | 0.0  | 263.0 | 0.0  |
| E        | 820      | 559.0                         | 0.0  | 0.0        | 0.0  | 261.0 | 0.0  |

#### BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 5.49 FT.  
MAX. UNBRACED BOTTOM CHORD LENGTH = 7.81 FT OR RIGID CEILING DIRECTLY APPLIED.  
ALL PITCH BREAKS AND PERIMETER CORNER JOINTS MUST BE Laterally RESTRAINED.

#### LOADING

TOTAL LOAD CASES: (4)

| CHORDS |                           |                               | WEBS          |       |                           |               |          |
|--------|---------------------------|-------------------------------|---------------|-------|---------------------------|---------------|----------|
| MEMB.  | MAX. FACTORED FORCE (LBS) | FACTORED VERT. LOAD LC1 (PLF) | MAX. CS1 (LC) | MEMB. | MAX. FACTORED FORCE (LBS) | MAX. CS1 (LC) |          |
| FR-TO  |                           | FROM TO                       | UNBRAC LENGTH | FR-TO |                           |               |          |
| A-B    | -977 / 0                  | -91.8 -91.8                   | 0.46 (1)      | 5.50  | F-D                       | 0 / 1238      | 0.31 (1) |
| B-C    | -1301 / 0                 | -91.8 -91.8                   | 0.08 (1)      | 5.56  | H-B                       | 0 / 274       | 0.07 (1) |
| C-D    | -1315 / 0                 | -91.8 -91.8                   | 0.12 (1)      | 5.49  | A-H                       | 0 934         | 0.23 (1) |
| E-A    | -993 / 0                  | 0.0 0.0                       | 0.08 (1)      | 7.81  | H-F                       | 0 919         | 0.16 (1) |
| E-D    | -1070 / 0                 | 0.0 0.0                       | 0.08 (1)      | 7.81  | B-F                       | 0 514         | 0.13 (1) |
| I-J    | 0 / 0                     | -18.5 -18.5                   | 0.50 (1)      | 10.00 |                           |               |          |
| J-K    | 0 / 0                     | -18.5 -18.5                   | 0.50 (1)      | 10.00 |                           |               |          |
| K-H    | 0 / 0                     | -18.5 -18.5                   | 0.50 (1)      | 10.00 |                           |               |          |
| H-L    | 0 / 38                    | -18.5 -18.5                   | 0.51 (1)      | 10.00 |                           |               |          |
| L-G    | 0 / 38                    | -18.5 -18.5                   | 0.51 (1)      | 10.00 |                           |               |          |
| G-F    | -21 / 0                   | 0.0 0.0                       | 0.08 (1)      | 7.81  |                           |               |          |
| F-C    | -244 / 0                  | 0.0 0.0                       | 0.08 (1)      | 7.81  |                           |               |          |
| F-M    | 0 / 0                     | -18.5 -18.5                   | 0.22 (1)      | 10.00 |                           |               |          |
| M-E    | 0 / 0                     | -18.5 -18.5                   | 0.22 (1)      | 10.00 |                           |               |          |

#### SPECIFIED CONCENTRATED LOADS (LBS)

| JT | LOC.    | LC1  | MAX. | FACE | DIR. | TYPE | HEEL  | CONN. |
|----|---------|------|------|------|------|------|-------|-------|
| H  | 4-11-0  | -177 | -177 | ---  | BACK | VERT | TOTAL | C1    |
| J  | 1-11-4  | -184 | -184 | ---  | BACK | VERT | TOTAL | C1    |
| K  | 3-11-4  | -177 | -177 | ---  | BACK | VERT | TOTAL | C1    |
| L  | 5-10-12 | -177 | -177 | ---  | BACK | VERT | TOTAL | C1    |
| M  | 7-10-12 | -169 | -169 | ---  | BACK | VERT | TOTAL | C1    |

#### CONNECTION REQUIREMENTS

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

TOTAL WEIGHT = 46 lb

#### DESIGN CRITERIA

##### SPECIFIED LOADS:

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

SPACING = 24.0 IN. C/C

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

THIS DESIGN COMPLIES WITH:

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

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

ALLOWABLE DEFL.(LL) =  $L/360$  (0.33")  
CALCULATED VERT. DEFL.(LL) =  $L/999$  (0.07")  
ALLOWABLE DEFL.(TL) =  $L/360$  (0.33")  
CALCULATED VERT. DEFL.(TL) =  $L/882$  (0.13")

CS1: TC=0.46/1.00 (A-B:1), BC=0.51/1.00 (G-H:1),  
WB=0.31/1.00 (D-F:1), SSE=0.36/1.00 (H-I:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE HEELS OFF

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

#### NAIL VALUES

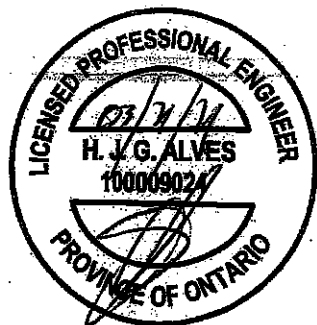
| PLATE   | GRIP(DRY) | SHEAR   | SECTION |
|---------|-----------|---------|---------|
| (PSI)   | (PL)      | (PL)    | (PL)    |
| MAX MIN | MAX MIN   | MAX MIN | MAX MIN |
| MT20    | 850       | 371     | 1747    |
|         | 788       | 1987    | 1873    |

PLATE PLACEMENT TOL = 0.250 inches

PLATE ROTATION TOL = 0.250 Deg.

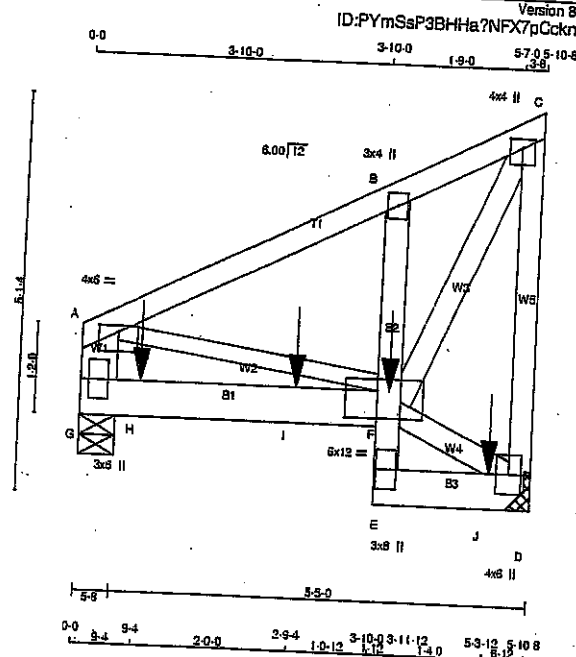
JSI GRIP = 0.73 (D) (INPUT = 0.90)

JSI METAL = 0.28 (D) (INPUT = 1.00)



Structural component only  
DWG# T-2108060

|                                                       |                   |               |          |                              |             |          |
|-------------------------------------------------------|-------------------|---------------|----------|------------------------------|-------------|----------|
| JOB NAME<br>417413<br>Tamarack Roof Truss, Burlington | TRUSS NAME<br>T32 | QUANTITY<br>1 | PLY<br>2 | JOB DESC.<br>GREENPARK HOMES | TRUSS DESC. | DRWG NO. |
|-------------------------------------------------------|-------------------|---------------|----------|------------------------------|-------------|----------|



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

DRY: SEASONED LUMBER.

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

| CHORDS #ROWS                             | SURFACE | LOAD(PLF)   |
|------------------------------------------|---------|-------------|
| SPACING (IN)                             |         |             |
| TOP CHORDS : (0.122"x3") SPIRAL NAILS    |         |             |
| A - C                                    | 12      | TOP         |
| C - D                                    | 12      | TOP         |
| G - A                                    | 12      | TOP         |
| BOTTOM CHORDS : (0.122"x3") SPIRAL NAILS |         |             |
| G - F                                    | 12      | SIDE(61.0)  |
| E - D                                    | 12      | SIDE(0.0)   |
| B - E                                    | 8       | SIDE(240.2) |
| WEBS : (0.122"x3") SPIRAL NAILS          |         |             |
| 2x3                                      | 6       |             |
| 2x4                                      | 8       |             |

NAILS TO BE DRIVEN FROM ONE SIDE ONLY.

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

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

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

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

| JT | FACTORED GROSS REACTION |      | MAXIMUM FACTORED GROSS REACTION |      | INPUT BRG  | REQD BRG |
|----|-------------------------|------|---------------------------------|------|------------|----------|
|    | VERT                    | HORZ | DOWN                            | HORZ |            |          |
| D  | 1739                    | 0    | 1739                            | 0    | IN-SX      | IN-SX    |
| G  | 1109                    | 0    | 1109                            | 0    | MECHANICAL | 5-8      |

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

#### UNFACTORED REACTIONS

| 1ST CASE |          | MAX. MIN. COMPONENT REACTIONS |      |            |      |       |      |
|----------|----------|-------------------------------|------|------------|------|-------|------|
| JT       | COMBINED | SNOW                          | LIVE | PERM. LIVE | WIND | DEAD  | SOIL |
| D        | 1223     | 842.0                         | 0.0  | 0.0        | 0.0  | 380.0 | 0.0  |
| G        | 777      | 554.0                         | 0.0  | 0.0        | 0.0  | 223.0 | 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 = 8.25 FT. MAX. UNBRACED BOTTOM CHORD LENGTH = 7.81 FT OR RIGID CEILING DIRECTLY APPLIED.

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

#### LOADING

TOTAL LOAD CASES: (4)

| CHORDS |                           |                           |                   | WEBS               |       |                           |               |
|--------|---------------------------|---------------------------|-------------------|--------------------|-------|---------------------------|---------------|
| MEMB.  | MAX. FACTORED FORCE (LBS) | FACTORED VERT. LOAD (PLF) | LC1 MAX. CSI (LC) | MAX. UNBRAC LENGTH | MEMB. | MAX. FACTORED FORCE (LBS) | MAX. CSI (LC) |
| FR-TO  |                           | FROM TO                   |                   |                    | FR-TO |                           |               |
| A-B    | -1002.0                   | -91.8                     | -91.8 0.10 (1)    | 6.25               | A-F   | 0.922                     | 0.11 (1)      |
| B-C    | -1001.0                   | -91.8                     | -91.8 0.07 (1)    | 6.25               | F-D   | -67.0                     | 0.00 (1)      |
| D-C    | -1319.0                   | 0.0                       | 0.0 0.27 (1)      | 7.81               | F-C   | 0.1926                    | 0.17 (1)      |
| G-A    | -784.0                    | 0.0                       | 0.0 0.03 (1)      | 7.81               |       |                           |               |
| G-H    | 0.0                       | -18.5                     | -18.5 0.11 (1)    | 10.00              |       |                           |               |
| H-I    | 0.0                       | -18.5                     | -18.5 0.11 (1)    | 10.00              |       |                           |               |
| I-F    | 0.0                       | -18.5                     | -18.5 0.11 (1)    | 10.00              |       |                           |               |
| E-F    | 0.174                     | 0.0                       | 0.0 0.06 (1)      | 10.00              |       |                           |               |
| F-B    | -328.0                    | 0.0                       | 0.0 0.05 (1)      | 7.81               |       |                           |               |
| E-J    | 0.60                      | -18.5                     | -18.5 0.08 (1)    | 10.00              |       |                           |               |
| J-D    | 0.60                      | -18.5                     | -18.5 0.08 (1)    | 10.00              |       |                           |               |

#### SPECIFIED CONCENTRATED LOADS (LBS)

| JT | LOC.    | LC1  | MAX- | MAX+ | FACE  | DIR. | TYPE  | HEEL | CONN. |
|----|---------|------|------|------|-------|------|-------|------|-------|
| F  | 3-11-12 | -812 | -    | -    | FRONT | VERT | TOTAL | -    | C1    |
| H  | 9-4     | -178 | -    | -    | TOP   | VERT | TOTAL | -    | C1    |
| I  | 2-9-4   | -178 | -    | -    | TOP   | VERT | TOTAL | -    | C1    |
| J  | 5-3-12  | -372 | -    | -    | FRONT | VERT | TOTAL | -    | C1    |

#### CONNECTION REQUIREMENTS

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

TOTAL WEIGHT = 2 X 37 = 74 lb

#### DESIGN CRITERIA

##### SPECIFIED LOADS:

TOP CH. LL = 25.6 PSF  
DL = 6.0 PSF  
BOT CH. LL = 0.0 PSF  
DL = 7.4 PSF  
TOTAL LOAD = 38.0 PSF

SPACING = 24.0 IN/C

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

THIS TRUSS COMPLIES WITH:

- PART 9 OF CBC 2015, ABC 2015  
- PART 9 OF OBC 2012 (2015 AMENDMENT)  
- CSA 088-14  
- TPIC 2014

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

ALLOWABLE DEFL.(LL) = L/360 (0.20")  
CALCULATED VERT. DEFL.(LL) = L/989 (0.01")  
ALLOWABLE DEFL.(TL) = L/360 (0.20")  
CALCULATED VERT. DEFL.(TL) = L/989 (0.02")

CSI: TC=0.27/1.00 (C-D:1), BC=0.11/1.00 (F-G:1), WB=0.17/1.00 (C-F:1), SS=0.13/1.00 (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 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=0.83 (C) (INPUT = 0.90)  
JSI METAL=0.22 (C) (INPUT = 1.00)



Structural component only  
DWG# T-2108061 1/1

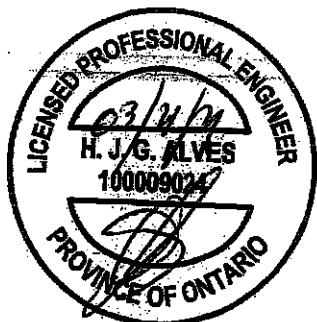
|                                 |                          |                      |                 |                                     |          |
|---------------------------------|--------------------------|----------------------|-----------------|-------------------------------------|----------|
| JOB NAME<br><b>417413</b>       | TRUSS NAME<br><b>T32</b> | QUANTITY<br><b>1</b> | PLY<br><b>2</b> | JOB DESC.<br><b>GREENPARK HOMES</b> | DRWG NO. |
| Tamarack Roof Truss, Burlington |                          |                      |                 | TRUSS DESC.                         |          |

Version 8.420 S Jan 21 2021 MITek Industries, Inc. Fri Mar 19 17:49:36 2021 Page 2  
ID:PYmSsP3BH-Ha?NFX7pCcknSza0gu-WXysmf8M47P6cbX?LhSP9mpw0MI1bhzeB8aUD2zZJID

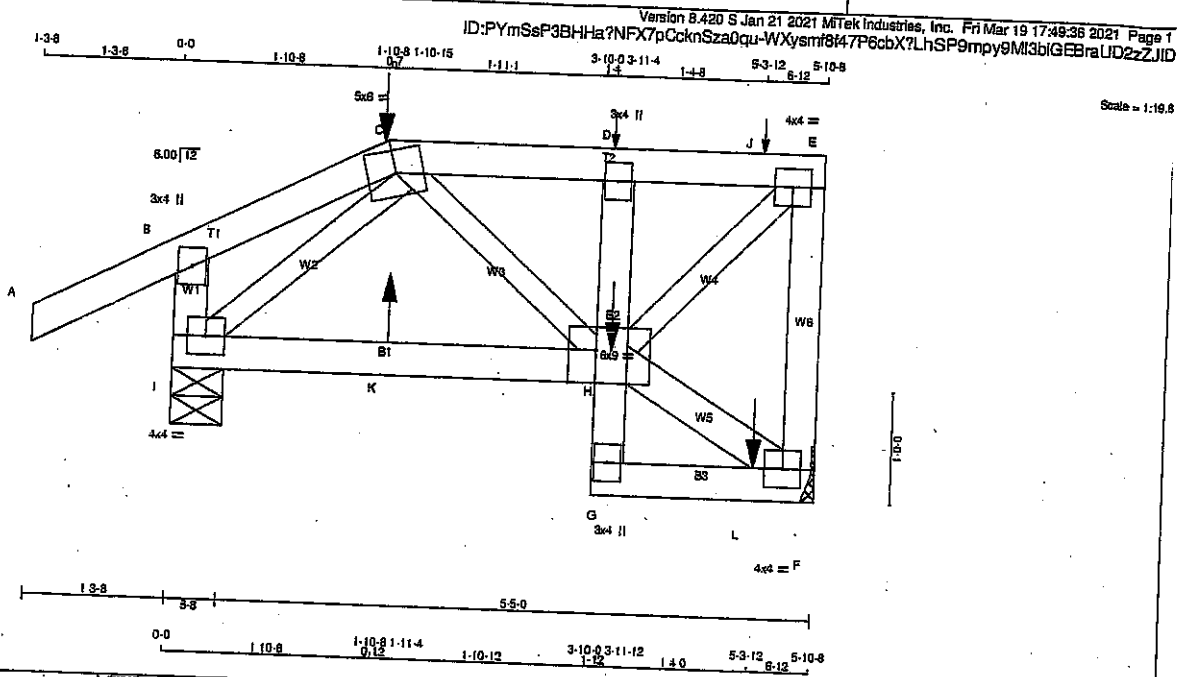
**PLATES** (table is in inches)

| JT | TYPE     | PLATES | W   | LEN  | Y    | X    |
|----|----------|--------|-----|------|------|------|
| A  | TMVW-p   | MT20   | 4.0 | 6.0  | 1.00 | 3.00 |
| B  | TMV+p    | MT20   | 3.0 | 4.0  |      |      |
| C  | TMVW+p   | MT20   | 4.0 | 4.0  | 1.50 | 2.00 |
| D  | BMVW1+p  | MT20   | 4.0 | 6.0  |      |      |
| E  | BMV+p    | MT20   | 3.0 | 6.0  |      |      |
| F  | BVMWVW-I | MT20   | 6.0 | 12.0 | 4.25 | 5.00 |
| G  | BMV1+p   | MT20   | 3.0 | 6.0  |      |      |

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



|                                 |                          |                      |                 |                                     |          |
|---------------------------------|--------------------------|----------------------|-----------------|-------------------------------------|----------|
| JOB NAME<br><b>417413</b>       | TRUSS NAME<br><b>T33</b> | QUANTITY<br><b>1</b> | PLY<br><b>1</b> | JOB DESC.<br><b>GREENPARK HOMES</b> | DRWG NO. |
| Tamarack Roof Truss, Burlington |                          |                      |                 |                                     |          |



**LUMBER**

N. L. G. A. RULES

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

DRY: SEASONED LUMBER.

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

**BEARINGS**

| FACTORED GROSS REACTION | MAXIMUM FACTORED GROSS REACTION | INPUT BRG  | RECORD BRG |
|-------------------------|---------------------------------|------------|------------|
| JT VERT 339             | DOWN 339                        | 0          | 0          |
| F VERT 465              | DOWN 465                        | 0          | 0          |
|                         | HORIZ 0                         | 5-8        | 5-8        |
|                         | UPLIFT 0                        | MECHANICAL | MECHANICAL |

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

**UNFACTORED REACTIONS**

| 1ST CASE    | MAX. MIN. COMPONENT REACTIONS       |
|-------------|-------------------------------------|
| JT COMBINED | SNOW LIVE PERM. LIVE WIND DEAD SOIL |
| F 240       | 153 0 0 0 0 0 0 0 0                 |
| I 327       | 226 0 0 0 0 0 0 0 0                 |

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 = 7.81 FT OR RIGID CEILING DIRECTLY APPLIED.

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

**LOADING**

TOTAL LOAD CASES: (7)

| CHORDS | MAX. FACTORED FORCE (LBS) | FACTORED VERT. LOAD (PLF) | MAX. FACTORED CSI (LC) | MAX. FACTORED UNBRACED LENGTH (FT) | WEBS  | MAX. FACTORED FORCE (LBS) | MAX. FACTORED CSI (LC) |
|--------|---------------------------|---------------------------|------------------------|------------------------------------|-------|---------------------------|------------------------|
| FR-TO  |                           |                           |                        |                                    | FR-TO |                           |                        |
| A-B    | 0 / 28                    | -91.8                     | -91.8 0.13 (1)         | 10.00                              | H-F   | -14 / 0                   | 0.00 (1)               |
| B-C    | 0 / 0                     | -91.8                     | -91.8 0.06 (1)         | 10.00                              | C-H   | 0 / 352                   | 0.09 (1)               |
| C-D    | -262 / 0                  | -91.8                     | -91.8 0.05 (5)         | 6.25                               | I-C   | -319 / 0                  | 0.06 (1)               |
| D-E    | -255 / 0                  | -91.8                     | -91.8 0.05 (1)         | 6.25                               |       |                           |                        |
| E-F    | -255 / 0                  | -91.8                     | -91.8 0.05 (1)         | 6.25                               |       |                           |                        |
| F-G    | -312 / 0                  | 0.0                       | 0.0 0.05 (1)           | 7.81                               |       |                           |                        |
| G-H    | -212 / 0                  | 0.0                       | 0.0 0.02 (1)           | 7.81                               |       |                           |                        |
| H-I    | 0 / 232                   | -18.5                     | -18.5 0.11 (4)         | 10.00                              |       |                           |                        |
| I-J    | 0 / 232                   | -18.5                     | -18.5 0.11 (4)         | 10.00                              |       |                           |                        |
| J-K    | 0 / 21                    | 0.0                       | 0.0 0.02 (1)           | 10.00                              |       |                           |                        |
| K-L    | -217 / 0                  | 0.0                       | 0.0 0.02 (1)           | 7.81                               |       |                           |                        |
| L-M    | 0 / 13                    | -18.5                     | -18.5 0.02 (4)         | 10.00                              |       |                           |                        |
| M-N    | 0 / 13                    | -18.5                     | -18.5 0.02 (4)         | 10.00                              |       |                           |                        |

**SPECIFIED CONCENTRATED LOADS (LBS)**

| JT | LOC.    | LC1 | MAX. | MAX+ | FACE  | DIR. | TYPE  | HEEL | CONN. |
|----|---------|-----|------|------|-------|------|-------|------|-------|
| C  | 1-10-15 | -4  | -4   | -    | FRONT | VERT | DEAD  | -    | C1    |
| C  | 1-10-15 | -1  | -1   | 87   | BACK  | VERT | TOTAL | -    | C1    |
| C  | 1-10-15 | -14 | -14  | -    | FRONT | VERT | TOTAL | -    | C1    |
| D  | 3-11-4  | 1   | 1    | 76   | BACK  | VERT | TOTAL | -    | C1    |
| H  | 3-11-12 | -6  | -6   | -    | BACK  | VERT | TOTAL | -    | C1    |
| J  | 5-3-12  | 1   | 1    | 65   | BACK  | VERT | TOTAL | -    | C1    |
| K  | 1-11-4  | 4   | 4    | 8    | BACK  | VERT | TOTAL | -    | C1    |
| L  | 5-3-12  | -2  | -2   | -    | BACK  | VERT | TOTAL | -    | C1    |

**CONNECTION REQUIREMENTS**

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

**DESIGN CRITERIA**

\*\*\* SPECIAL LOADS ANALYSIS \*\*\*

GEOMETRY AND/OR BASIC LOADS CHANGED BY USER.

LOADS WERE DERIVED FROM USER INPUT

NO FURTHER MODIFICATIONS WERE MADE

**SPECIFIED LOADS:**

TOP CH. LL = 25.6 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, NBC 2015

THIS DESIGN COMPLIES WITH:

- PART 9 OF CBC 2018, ABC 2019
- PART 9 OF CBC 2012 (2019 AMENDMENT)
- CSA D86-14
- TPIC 2014

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

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

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

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

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

CSK TC=0.13/1.00 (A-B:1), BC=0.11/1.00 (H-I:4), WS=0.09/1.00 (E-H:1), SS=0.10/1.00 (C-D:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE 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

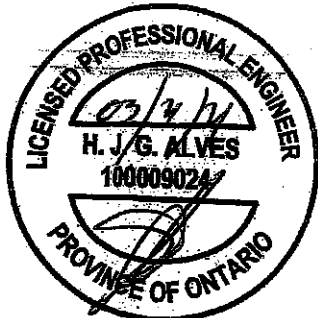
MT20 650 371 1747 788 1987 1873

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP = 0.34 (E) (INPUT = 0.90)

JSI METAL = 0.10 (E) (INPUT = 1.00)



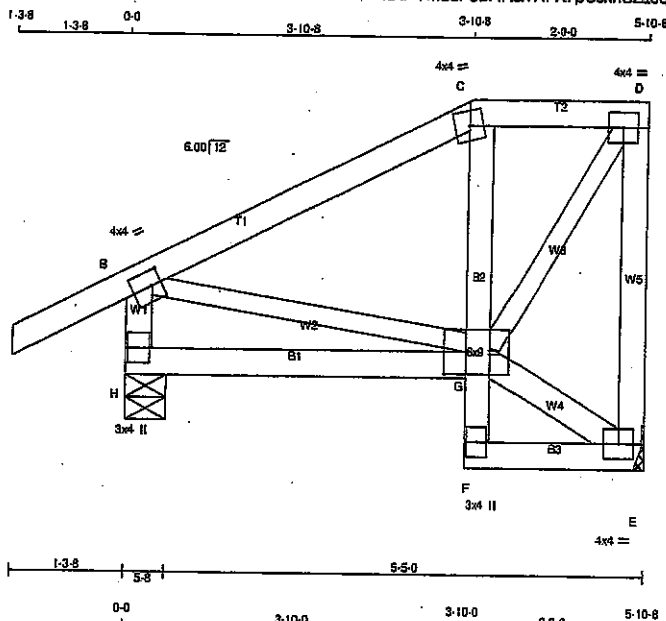
Structural component only

DATE: 11/21/2021

| JOB NAME | TRUSS NAME | QUANTITY | PLY | JOB DESC.   | GREENPARK HOMES | DRWG NO. |
|----------|------------|----------|-----|-------------|-----------------|----------|
| 417413   | T34        | 1        | 1   | TRUSS DESC. |                 |          |

Tamarack Roof Truss, Burlington

Version 8.420 S Jan 21 2021 MTEK Industries, Inc. Fri Mar 19 17:49:37 2021 Page 1  
ID:PYmSp3BH-Ha?NFX7pCcknSza0qu- JWEz78lrFXzEi6BuPzeizL6LidiKA?NPVJ2mVzZJIC



Scale = 1/24.6

TOTAL WEIGHT = 32 b

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

DRY: SEASONED LUMBER.

#### PLATES (table is in inches)

| JT | TYPE     | PLATES | W   | LEN | Y    | X    |
|----|----------|--------|-----|-----|------|------|
| B  | TMVW-t   | MT20   | 4.0 | 4.0 | 2.00 | 1.25 |
| C  | TTV-m    | MT20   | 4.0 | 4.0 |      |      |
| D  | TMVW-t   | MT20   | 4.0 | 4.0 |      |      |
| E  | BMVW1-t  | MT20   | 4.0 | 4.0 |      |      |
| F  | BMV+p    | MT20   | 3.0 | 4.0 |      |      |
| G  | BMVWWW-I | MT20   | 6.0 | 9.0 | 3.00 | 3.00 |
| H  | BMV1+p   | MT20   | 3.0 | 4.0 |      |      |

#### NOTES: (1)

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

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

| BEARINGS       |      |      |                  |      |        |       |       |  |
|----------------|------|------|------------------|------|--------|-------|-------|--|
| FACTORED       |      |      | MAXIMUM FACTORED |      |        | INPUT | REQRD |  |
| GROSS REACTION |      |      | GROSS REACTION   |      |        | BRG   | BRG   |  |
| JT             | VERT | HORZ | DOWN             | HORZ | UPLIFT | IN-SX | IN-SX |  |
| E              | 324  | 0    | 324              | 0    | 0      | 0     | 5-8   |  |
| H              | 448  | 0    | 448              | 0    | 0      | 5-8   | 5-8   |  |

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

#### UNFACTORED REACTIONS

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

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

#### BRACING

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

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

#### LOADING

TOTAL LOAD CASES: (4)

| CHORDS |                           |                           |                  | WEBS               |       |                           |              |
|--------|---------------------------|---------------------------|------------------|--------------------|-------|---------------------------|--------------|
| MEMB.  | MAX. FACTORED FORCE (LBS) | FACTORED VERT. LOAD (PLF) | LC1 MAX CSI (LC) | MAX. UNBRAC LENGTH | MEMB. | MAX. FACTORED FORCE (LBS) | MAX CSI (LC) |
| FR-TO  |                           | FROM TO                   |                  |                    | FR-TO |                           |              |
| A-B    | 0.28                      | -91.8                     | -91.8 0.12 (1)   | 10.00              | B-G   | 0.158                     | 0.04 (1)     |
| B-C    | -173.0                    | -91.8                     | -91.8 0.23 (1)   | 8.25               | G-E   | -9.0                      | 0.00 (1)     |
| C-D    | -141.0                    | -91.8                     | -91.8 0.07 (1)   | 8.25               | G-D   | 0.253                     | 0.06 (1)     |
| E-D    | -302.0                    | 0.0                       | 0.0 0.08 (1)     | 7.81               |       |                           |              |
| H-B    | -412.0                    | 0.0                       | 0.0 0.04 (1)     | 7.81               |       |                           |              |
| H-G    | 0.0                       | -18.5                     | -18.5 0.09 (4)   | 10.00              |       |                           |              |
| F-G    | 0.20                      | 0.0                       | 0.0 0.01 (1)     | 10.00              |       |                           |              |
| G-C    | -193.0                    | 0.0                       | 0.0 0.01 (1)     | 7.81               |       |                           |              |
| F-E    | 0.8                       | -18.5                     | -18.5 0.02 (4)   | 10.00              |       |                           |              |

#### DESIGN CRITERIA

##### SPECIFIED LOADS:

|            |           |     |
|------------|-----------|-----|
| TOP CH.    | LL = 25.8 | PSF |
| DL = 6.0   | PSF       |     |
| BOT CH.    | LL = 0.0  | PSF |
| DL = 7.4   | PSF       |     |
| TOTAL LOAD | = 39.0    | PSF |

SPACING = 24.0 IN. C/C

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

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

THIS DESIGN COMPLIES WITH:

- PART 9 OF NBCC 2015, ABC 2019
- PART 9 OF 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 25.8 P.S.F. SPECIFIED ROOF LIVE LOAD

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

CSI: TC=0.23/1.00 (B-C:1), BC=0.09/1.00 (G-H:4), WB=0.08/1.00 (D-G: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

AUTOSOLVE RIGHT HEEL ONLY

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

#### NAIL VALUES

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

PLATE PLACEMENT TOL = 0.250 inches

PLATE ROTATION TOL = 5.0 Deg.

JSI GRIP = 0.26 (D) (INPUT = 0.90)  
JSI METAL = 0.10 (B) (INPUT = 1.00)

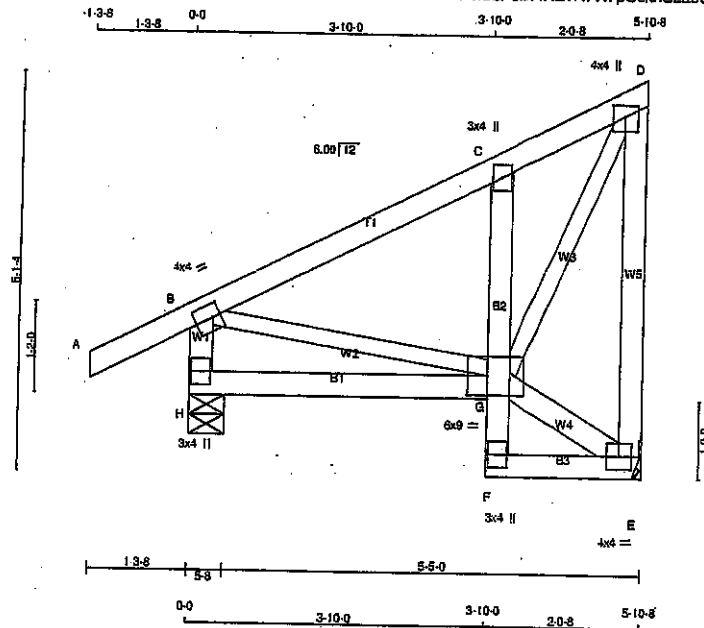


Structural component only

DRWG# T 341000000

| JOB NAME                        | TRUSS NAME | QUANTITY | PLY | JOB DESC.       | DRWG NO. |
|---------------------------------|------------|----------|-----|-----------------|----------|
| 417413                          | T35        | 2        | 1   | GREENPARK HOMES |          |
| Tamarack Roof Truss, Burlington |            |          |     | TRUSS DESC.     |          |

Version 8.420 S Jan 21 2021 Mitek Industries, Inc. Fri Mar 19 17:49:38 2021 Page 1  
ID:PYmSsP3BH-Ha7NFX7pCckmSza0qu-Sw4cBL9wclfqsvhOS6UteBul79zx3cjXe93blxzZJIB



TOTAL WEIGHT = 2 X 34 = 68 lb

#### LUMBER

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

| CHORDS                | SIZE    | LUMBER | DESCR. |
|-----------------------|---------|--------|--------|
| A - D                 | 2x4 DRY | No.2   | SPF    |
| E - D                 | 2x4 DRY | No.2   | SPF    |
| H - B                 | 2x4 DRY | No.2   | SPF    |
| F - C                 | 2x4 DRY | No.2   | SPF    |
| F - E                 | 2x4 DRY | No.2   | SPF    |
| ALL WEBS EXCEPT G - E | 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 | 4.0 | 2.00 | 1.25 |
| C TMV+p   | MT20   | 3.0 | 4.0 |      |      |
| D TMVW+p  | MT20   | 4.0 | 4.0 | 1.75 | 2.00 |
| E BMVW-t  | MT20   | 4.0 | 4.0 |      |      |
| F BMV+p   | MT20   | 3.0 | 4.0 |      |      |
| G BVMVW-t | MT20   | 6.0 | 9.0 | 3.00 | 3.00 |
| H 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

| JT | FACTORED GROSS REACTION | MAXIMUM FACTORED GROSS REACTION | INPUT BRG | REQD BRG |
|----|-------------------------|---------------------------------|-----------|----------|
| E  | 324                     | 324                             | 0         | 0        |
| H  | 448                     | 448                             | 0         | 0        |

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

#### UNFACTORED REACTIONS

| JT | 1ST CASE | MAX. MIN. COMPONENT REACTIONS | DEAD | SOIL |
|----|----------|-------------------------------|------|------|
| E  | 229      | 150.0                         | 0.0  | 0.0  |
| H  | 315      | 220.0                         | 0.0  | 0.0  |

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

#### BRACING

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

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

#### LOADING

TOTAL LOAD CASES: (4)

| MEMB. | CHORDS                    | WEBS                      |
|-------|---------------------------|---------------------------|
| FR-TO | MAX. FACTORED FORCE (LBS) | MAX. FACTORED FORCE (LBS) |
| A-B   | 0.28                      | 0.198                     |
| B-C   | -202.0                    | -18.0                     |
| C-D   | -228.0                    | -18.0                     |
| E-D   | -298.0                    | 0.401                     |
| H-B   | -412.0                    | 7.81                      |
| H-G   | 0.0                       | -18.5                     |
| F-G   | 0.20                      | 0.0                       |
| G-C   | -355.0                    | 0.0                       |
| F-E   | 0.16                      | -18.5                     |

#### DESIGN CRITERIA

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

SPACING = 24.0 IN/C

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

THIS DESIGN COMPLIES WITH:

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

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

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

CSI: TC=0.17/1.00 (B-C:1), BC=0.09/1.00 (G-H:4),  
WB=0.09/1.00 (D-G:1), SS=0.15/1.00 (B-C:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE RIGHT HEEL ONLY

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

#### NAIL VALUES

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

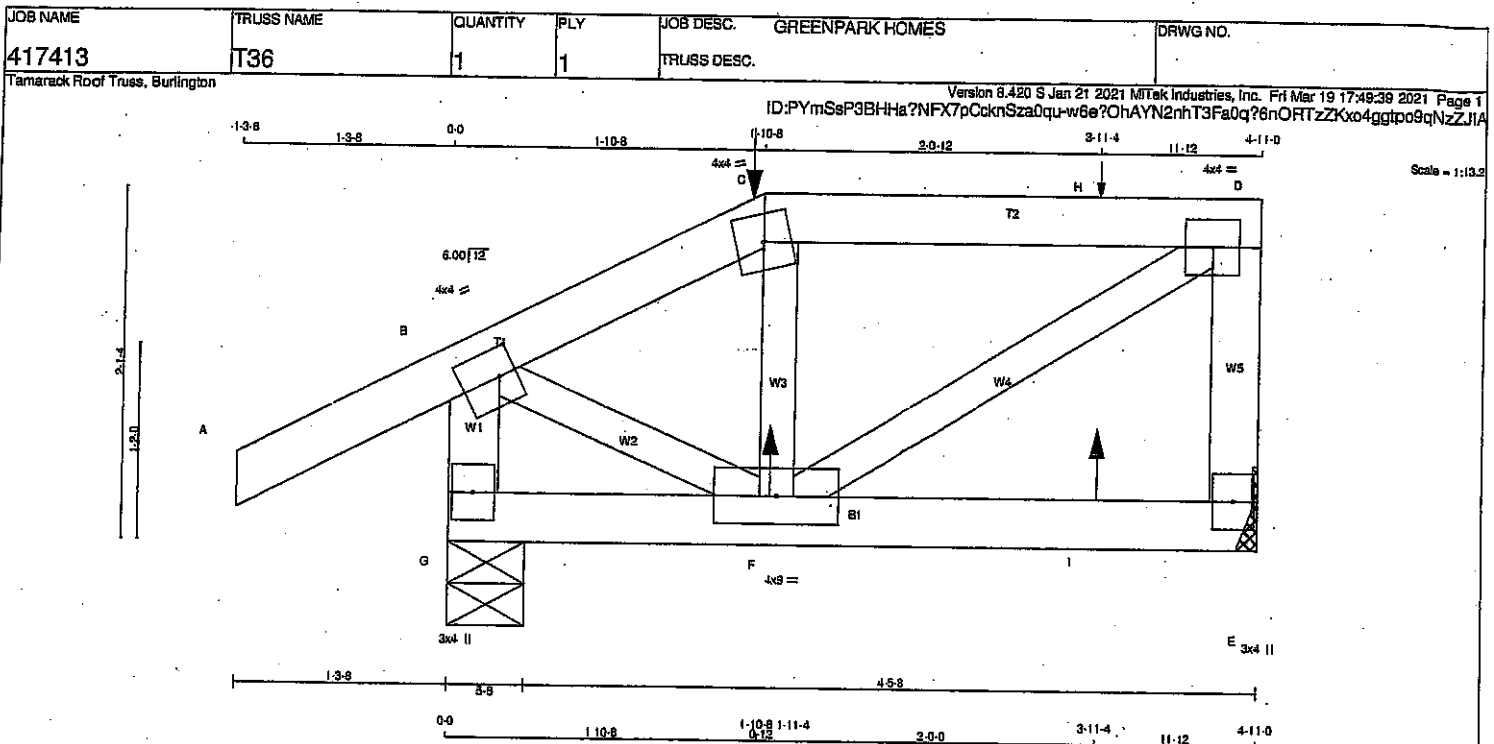
PLATE PLACEMENT TOL = 0.250 inches

PLATE ROTATION TOL = 5.0 Deg.

JSI GRIP= 0.43 (D) (INPUT = 0.90)  
JSI METAL= 0.12 (B) (INPUT = 1.00)



Structural component only



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

| PLATES (table is in inches) |         |        |     |     |      |      |  |
|-----------------------------|---------|--------|-----|-----|------|------|--|
| JT                          | TYPE    | PLATES | W   | LEN | Y    | X    |  |
| B                           | TMVW-t  | MT20   | 4.0 | 4.0 | 2.00 | 1.25 |  |
| C                           | TTW-m   | MT20   | 4.0 | 4.0 |      |      |  |
| D                           | TMVW-t  | MT20   | 4.0 | 4.0 |      |      |  |
| E                           | BMV1+p  | MT20   | 3.0 | 4.0 |      |      |  |
| F                           | BMVWW-t | MT20   | 4.0 | 9.0 |      |      |  |
| G                           | 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 |        |       |       |
| GROSS REACTION                                                                                           |      |       |      | GROSS REACTION   |        |       |       |
| JT                                                                                                       | VERT | HORIZ | DOWN | HORIZ            | UPLIFT | IN-SX | IN-SX |
| E                                                                                                        | 258  | 0     | 258  | 0                | 0      | 0     | 0     |
| G                                                                                                        | 424  | 0     | 424  | 0                | 0      | 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                    | 182      | 116  | 0    | 0                             | 0    | 0    | 0    |
| G                    | 298      | 210  | 0    | 0                             | 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 = 8.25 FT.  
 MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

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

| LOADING               |                           |                           |               |                    |       |                           |               |
|-----------------------|---------------------------|---------------------------|---------------|--------------------|-------|---------------------------|---------------|
| TOTAL LOAD CASES: (7) |                           |                           |               |                    |       |                           |               |
| CHORDS                |                           |                           |               | WEBS               |       |                           |               |
| MEMB.                 | MAX. FACTORED FORCE (LBS) | FACTORED VERT. LOAD (PLF) | MAX. CS1 (LC) | MAX. UNBRAC LENGTH | MEMB. | MAX. FACTORED FORCE (LBS) | MAX. CS1 (LC) |
| FR-TO                 |                           | FROM TO                   |               |                    | FR-TO |                           |               |
| A-B                   | 0:28                      | -91.8                     | -91.8         | 0.13 (1)           | 10.00 | F-C                       | -126:0        |
| B-C                   | -204:0                    | -91.8                     | -91.8         | 0.13 (1)           | 8.25  | F-D                       | 0:184         |
| C-H                   | -157:0                    | -91.8                     | -91.8         | 0.16 (1)           | 6.25  | B-F                       | 0:179         |
| H-D                   | -157:0                    | -91.8                     | -91.8         | 0.16 (1)           | 6.25  |                           |               |
| E-D                   | -238:0                    | 0.0                       | 0.0           | 0.03 (1)           | 7.81  |                           |               |
| G-B                   | -408:0                    | 0.0                       | 0.0           | 0.05 (1)           | 7.81  |                           |               |
| G-F                   | 0:0                       | -18.5                     | -18.5         | 0.03 (4)           | 10.00 |                           |               |
| F-I                   | 0:0                       | -18.5                     | -18.5         | 0.04 (4)           | 10.00 |                           |               |
| I-E                   | 0:0                       | -18.5                     | -18.5         | 0.04 (4)           | 10.00 |                           |               |

| SPECIFIED CONCENTRATED LOADS (LBS) |        |     |      |      |       |      |       |
|------------------------------------|--------|-----|------|------|-------|------|-------|
| JT                                 | LOC.   | LC1 | MAX. | MAX. | FACE  | DIR. | TYPE  |
| C                                  | 1-10-8 | -4  | -4   | -    | FRONT | VERT | DEAD  |
| C                                  | 1-10-8 | -1  | -1   | 67   | BACK  | VERT | TOTAL |
| C                                  | 1-10-8 | -14 | -14  | -    | FRONT | VERT | SNOW  |
| F                                  | 1-11-4 | 4   | 1    | 8    | BACK  | VERT | TOTAL |
| H                                  | 3-11-4 | 1   | 1    | 88   | BACK  | VERT | TOTAL |
| I                                  | 3-11-4 | 4   | 1    | 8    | BACK  | VERT | TOTAL |

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

DESIGN CRITERIA  
 \*\*\* SPECIAL LOADS ANALYSIS \*\*\*  
 GEOMETRY AND/OR BASIC LOADS CHANGED BY USER.  
 LOADS WERE DERIVED FROM USER INPUT NO FURTHER MODIFICATIONS WERE MADE  
 SPECIFIED LOADS:  
 TOP CH. LL = 25.6 PSF  
 DL = 8.0 PSF  
 BOT CH. LL = 0.0 PSF  
 DL = 7.4 PSF  
 TOTAL LOAD = 39.0 PSF

SPACING = 24.0 IN. C/C  
 LOADING IN FLAT SECTION BASED ON A SLOPE OF 8.00/12  
 \*\*\* NON STANDARD GIRDER \*\*\*  
 ADD'L USER-DEFINED LOADS APPLIED TO ALL LOAD CASES.

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

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

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

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

ALLOWABLE DEFL.(LL) = 1/360 (0.19")  
 CALCULATED VERT. DEFL.(LL) = 1/999 (0.00")  
 ALLOWABLE DEFL.(TL) = 1/360 (0.19")  
 CALCULATED VERT. DEFL.(TL) = 1/999 (0.00")

CS1: TC=0.16/1.00 (C-D:1), BC=0.04/1.00 (E-F:4), WB=0.05/1.00 (D-F:1), SS=0.12/1.00 (C-D:1)

DOL LUMBER=1.00 NAIL=1.00 L.S 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.

Structural component only



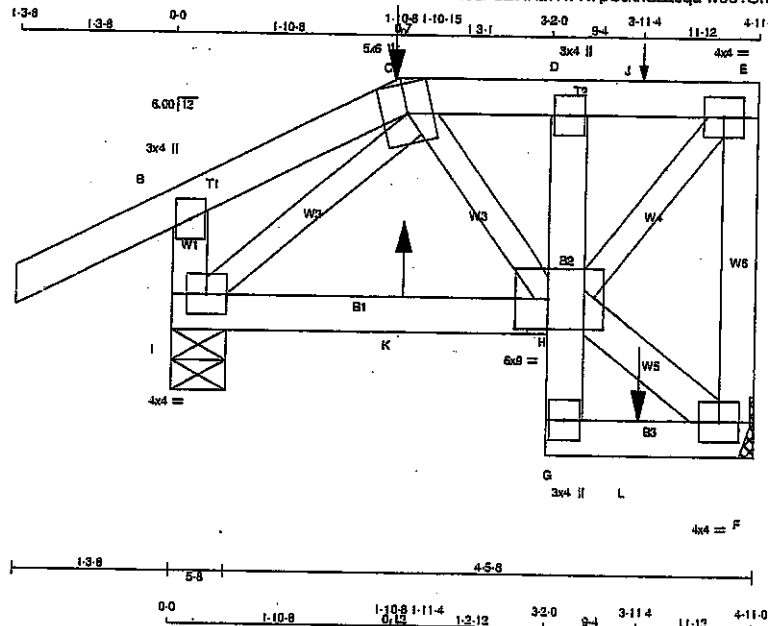
Structural component only

|          |            |          |     |             |                 |          |
|----------|------------|----------|-----|-------------|-----------------|----------|
| JOB NAME | TRUSS NAME | QUANTITY | PLY | JOB DESC.   | GREENPARK HOMES | DRWG NO. |
| 417413   | T36S       | 1        | 1   | TRUSS DESC. |                 |          |

Tamarack Roof Truss, Burlington

ID:PYmSsP3BH-Ha?NFX7pCcknSza0qu-w6e?OhAYN2nhT3Fa0q?6nORTPZJHc3Ngtpo9qNzZJIA

Version 8.420 S Jan 21 2021 MTek Industries, Inc. Fri Mar 19 17:49:39 2021 Page 1



Scale = 1:16.3

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

DRY: SEASONED LUMBER.

| PLATES (table is in inches) | W    | LEN | Y   | X         |
|-----------------------------|------|-----|-----|-----------|
| B - TMV+p                   | MT20 | 3.0 | 4.0 |           |
| C - TTWW+m                  | MT20 | 5.0 | 6.0 |           |
| D - TMV+p                   | MT20 | 3.0 | 4.0 |           |
| E - TMVW-t                  | MT20 | 4.0 | 4.0 |           |
| F - BMVW-t                  | MT20 | 4.0 | 4.0 |           |
| G - BMV+p                   | MT20 | 3.0 | 4.0 |           |
| H - BMVWV-t                 | MT20 | 6.0 | 9.0 | 3.00 3.50 |
| I - BMVW-t                  | MT20 | 4.0 | 4.0 |           |

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

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

| BEARINGS | FACTORED       | MAXIMUM FACTORED | INPUT | REQD    |
|----------|----------------|------------------|-------|---------|
|          | GROSS REACTION | GROSS REACTION   | BRG   | BRG     |
| JT       | VERT           | HORZ             | DOWN  | UP/LIFT |
| F        | 281            | 0                | 281   | 0       |
| I        | 409            | 0                | 409   | 0       |

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

#### UNFACTORED REACTIONS

| 1ST CASE | MAX. MIN. COMPONENT REACTIONS | DEAD | SOIL |
|----------|-------------------------------|------|------|
| JT       | COMBINED                      |      |      |
| F        | 199                           | 130  | 0    |
| I        | 287                           | 201  | 0    |

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

#### BRACING

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

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

#### LOADING

TOTAL LOAD CASES: (7)

| CHORDS | MAX. FACTORED | FACTORED   | MAX      | MAX      | MAX    | MAX   | MAX      | MAX      |
|--------|---------------|------------|----------|----------|--------|-------|----------|----------|
| MEMB.  | FORCE         | VERT. LOAD | LC1      | MAX      | UNBRAC | MEMB. | FORCE    | MAX      |
|        | (LBS)         | (PLF)      | CSI (LC) | LENGTH   | FR-TO  |       | (LBS)    | CSI (LC) |
| A-B    | 0 / 28        | -91.8      | -91.8    | 0.13 (1) | 10.00  | H-F   | -12 / 0  | 0.00 (1) |
| B-C    | 0 / 0         | -91.8      | -91.8    | 0.08 (1) | 10.00  | H-E   | 0 / 281  | 0.08 (1) |
| C-D    | -179 / 0      | -91.8      | -91.8    | 0.03 (5) | 6.25   | C-H   | 0 / 16   | 0.01 (4) |
| D-J    | -173 / 0      | -91.8      | -91.8    | 0.03 (1) | 6.25   | I-G   | -245 / 0 | 0.05 (1) |
| J-E    | -173 / 0      | -91.8      | -91.8    | 0.03 (1) | 6.25   |       |          |          |
| F-E    | -259 / 0      | 0.0        | 0.0      | 0.04 (1) | 7.81   |       |          |          |
| I-B    | -212 / 0      | 0.0        | 0.0      | 0.02 (1) | 7.81   |       |          |          |
| I-K    | 0 / 178       | -18.5      | -18.5    | 0.08 (4) | 10.00  |       |          |          |
| K-H    | 0 / 178       | -18.5      | -18.5    | 0.08 (4) | 10.00  |       |          |          |
| G-H    | 0 / 18        | 0.0        | 0.0      | 0.02 (1) | 10.00  |       |          |          |
| H-D    | -160 / 0      | 0.0        | 0.0      | 0.02 (1) | 7.81   |       |          |          |
| G-L    | 0 / 10        | -18.5      | -18.5    | 0.02 (4) | 10.00  |       |          |          |
| L-F    | 0 / 10        | -18.5      | -18.5    | 0.02 (4) | 10.00  |       |          |          |

#### SPECIFIED CONCENTRATED LOADS (LBS)

| JT | LOC.    | LC1 | MAX. | FACE  | DIR. | TYPE  | HEEL | CONN. |
|----|---------|-----|------|-------|------|-------|------|-------|
| C  | 1-10-15 | -4  | -4   | FRONT | VERT | DEAD  | -    | C1    |
| C  | 1-10-15 | -1  | -1   | FRONT | VERT | TOTAL | -    | C1    |
| C  | 1-10-15 | -14 | -14  | FRONT | VERT | SNOW  | -    | C1    |
| J  | 3-11-4  | 1   | 1    | FRONT | VERT | TOTAL | -    | C1    |
| K  | 1-11-4  | 4   | 1    | FRONT | VERT | TOTAL | -    | C1    |
| L  | 3-11-4  | -2  | -2   | FRONT | VERT | TOTAL | -    | C1    |

#### CONNECTION REQUIREMENTS

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

TOTAL WEIGHT = 27 lb

#### DESIGN CRITERIA

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

#### SPECIFIED LOADS:

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

SPACING = 24.0 IN. C/C

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

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

ADD'L 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 BCBC 2018, ABC 2019  
- PART 9 OF OBC 2012 (2019 AMENDMENT)  
- CSA 086-14  
- TPIC 2014

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

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

CSI: TC=0.13/1.00 (A-B:1), BC=0.08/1.00 (H-I:4), WB=0.08/1.00 (E-H:1), SS=0.10/1.00 (A-B:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE RIGHT HEEL ONLY

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

#### NAIL VALUES

PLATE GRIP(DRY) SHEAR SECTION  
(FS) (PLJ) (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 = 0.26 (E) (INPUT = 0.90)  
JSI METAL = 0.07 (C) (INPUT = 1.00)

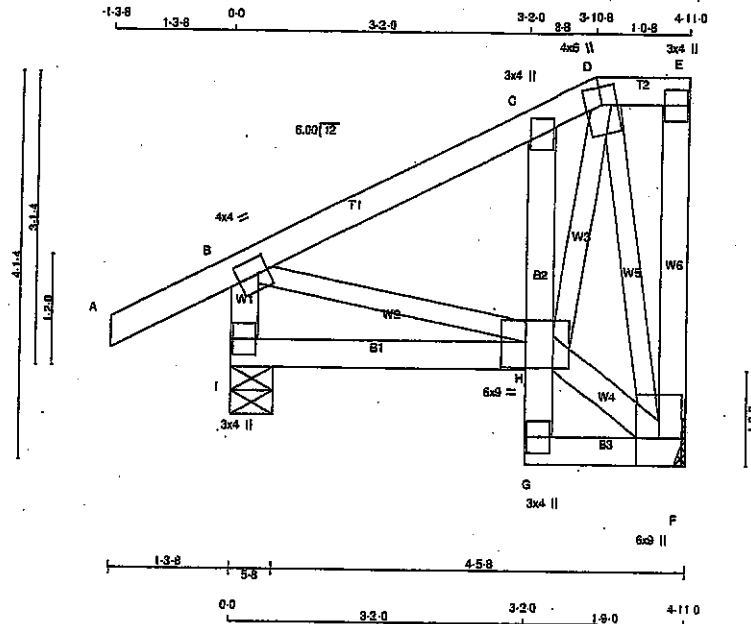


Structural component only  
DRAFT

| JOB NAME | TRUSS NAME | QUANTITY | PLY | JOB DESC.   | GREENPARK HOMES | DRWG NO. |
|----------|------------|----------|-----|-------------|-----------------|----------|
| 417413   | T37        | 2        | 1   | TRUSS DESC. |                 |          |

Tamarack Roof Truss, Burlington

Version 8.420 S Jan 21 2021 MtTek Industries, Inc. Fri Mar 19 17:49:40 2021 Page 1  
ID:PYmSsP3BHh7NFX7pCcknSza0qu-OICNc1BA8MvY5DqmaXWLJczfLzgpXWNp6TYIMqZZJIS



TOTAL WEIGHT = 2 X 31 = 62 lb

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

DRY: SEASONED LUMBER.

#### PLATES (table is in inches)

| JT | TYPE      | PLATES | W   | LEN | Y    | X    |
|----|-----------|--------|-----|-----|------|------|
| B  | TMVW-t    | MT20   | 4.0 | 4.0 | 2.00 | 1.25 |
| C  | TMV-p     | MT20   | 3.0 | 4.0 |      |      |
| D  | TTWV+m    | MT20   | 4.0 | 6.0 | 2.25 | 2.00 |
| E  | TMV-p     | MT20   | 3.0 | 4.0 |      |      |
| F  | BMVWW-1-p | MT20   | 6.0 | 9.0 | Edge |      |
| G  | BMV-p     | MT20   | 3.0 | 4.0 |      |      |
| H  | BMVWW-1   | MT20   | 6.0 | 9.0 | 3.25 | 3.25 |
| I  | BMV-1-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

| JT | FACTORED GROSS REACTION |       | MAXIMUM FACTORED GROSS REACTION |       | INPUT BRG  | REQD BRG |
|----|-------------------------|-------|---------------------------------|-------|------------|----------|
|    | VERT                    | HORIZ | DOWN                            | HORIZ |            |          |
| F  | 271                     | 0     | 271                             | 0     | MECHANICAL |          |
| I  | 396                     | 0     | 396                             | 0     | 5-8        |          |

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

#### UNFACTORED REACTIONS

| JT | 1ST CASE |      | MAX./MIN. COMPONENT REACTIONS |           |      |      |      |
|----|----------|------|-------------------------------|-----------|------|------|------|
|    | COMBINED | SNOW | LIVE                          | PERM.LIVE | WIND | DEAD | SOIL |
| F  | 192      | 128  | 0                             | 0         | 0    | 66   | 0    |
| I  | 277      | 195  | 0                             | 0         | 0    | 82   | 0    |

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

#### BRACING

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

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

#### LOADING

TOTAL LOAD CASES: (4)

| CHORDS |                           |                           |                                   | WEBS  |                           |                                   |  |
|--------|---------------------------|---------------------------|-----------------------------------|-------|---------------------------|-----------------------------------|--|
| MEMB.  | MAX. FACTORED FORCE (LBS) | FACTORED VERT. LOAD (PLF) | LC1 MAX. FACTORED VERT. LOAD (LC) | MEMB. | MAX. FACTORED FORCE (LBS) | LC1 MAX. FACTORED VERT. LOAD (LC) |  |
| FR-TO  |                           | FROM TO                   | UNBRAC LENGTH                     | FR-TO |                           |                                   |  |
| A-B    | 0 / 28                    | -91.8                     | -91.8 0.12 (1)                    | 10.00 | B-H                       | 0 / 158 0.04 (1)                  |  |
| B-C    | -160 / 0                  | -91.8                     | -91.8 0.12 (1)                    | 6.25  | H-F                       | 0 / 54 0.01 (1)                   |  |
| C-D    | -207 / 0                  | -91.8                     | -91.8 0.11 (1)                    | 6.25  | H-D                       | 0 / 358 0.08 (1)                  |  |
| D-E    | 0 / 0                     | -91.8                     | -91.8 0.02 (1)                    | 10.00 | D-F                       | -247 / 0 0.06 (1)                 |  |
| F-E    | -46 / 0                   | 0.0                       | 0.0 0.01 (1)                      | 7.81  |                           |                                   |  |
| I-B    | -365 / 0                  | 0.0                       | 0.0 0.04 (1)                      | 7.81  |                           |                                   |  |
| I-H    | 0 / 0                     | -18.5                     | -18.5 0.06 (4)                    | 10.00 |                           |                                   |  |
| G-H    | 0 / 17                    | 0.0                       | 0.0 0.03 (1)                      | 10.00 |                           |                                   |  |
| H-C    | -316 / 0                  | 0.0                       | 0.0 0.03 (1)                      | 7.81  |                           |                                   |  |
| G-F    | 0 / 17                    | -18.5                     | -18.5 0.02 (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, ABC 2019  
- PART 9 OF CBC 2012 (2019 AMENDMENT)  
- CSA 088-14  
- TPIC 2014

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

ALLOWABLE DEFL.(LL) = L/360 (0.19")  
CALCULATED VERT. DEFL.(LL) = L/999 (0.06")  
ALLOWABLE DEFL.(TL) = L/360 (0.19")  
CALCULATED VERT. DEFL.(TL) = L/999 (0.01")

CSI: TC=0.12/1.00 (A-B:1), BC=0.06/1.00 (H-H:4), WB=0.08/1.00 (D-H:1), SS=0.12/1.00 (B-C:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE RIGHT HEEL ONLY

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

#### NAIL VALUES

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

PLATE PLACEMENT TOL = 0.250 inches

PLATE ROTATION TOL = 5.0 Deg.

JSI GRIP = 0.26 (B) (INPUT = 0.90)  
JSI METAL = 0.10 (B) (INPUT = 1.00)

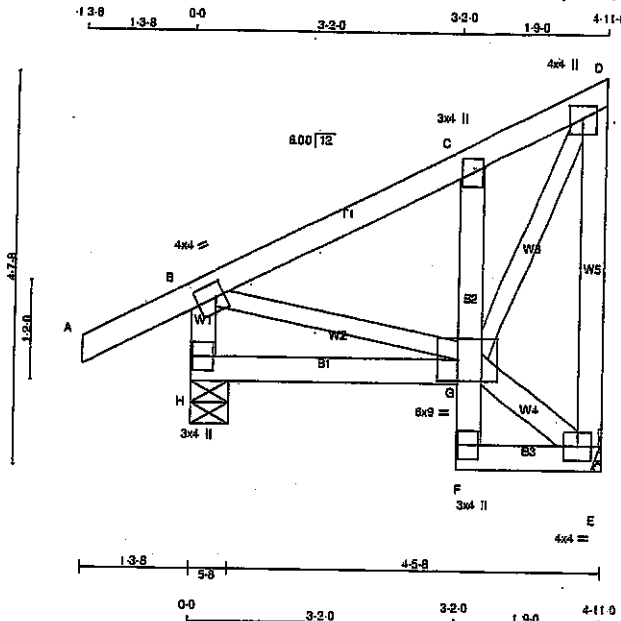


Structural component only

| JOB NAME | TRUSS NAME | QUANTITY | PLY | JOB DESC.   | GREENPARK HOMES | DRWG NO. |
|----------|------------|----------|-----|-------------|-----------------|----------|
| 417413   | T38        | 1        | 1   | TRUSS DESC. |                 |          |

Tamarack Roof Truss, Burlington

Version 8.420 5 Jan 21 2021 MITek Industries, Inc. Fri Mar 19 17:49:41 2021 Page 1  
ID:PYmSeP3BHHa?NFX7pCcknSza0qu-tVilpNBovg1PiNPz7E2bspWq4N02GzmzK6HFvGzzJ18



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

TOTAL WEIGHT = 29 lb

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

**PLATES (table is in inches)**

| JT | TYPE     | PLATES | W   | LEN | Y    | X    |
|----|----------|--------|-----|-----|------|------|
| B  | TMVW-t   | MT20   | 4.0 | 4.0 | 2.00 | 1.25 |
| C  | TMV+p    | MT20   | 3.0 | 4.0 |      |      |
| D  | TMVW+p   | MT20   | 4.0 | 4.0 | 1.75 | 2.00 |
| E  | BMVW-t   | MT20   | 4.0 | 4.0 |      |      |
| F  | BMV+p    | MT20   | 3.0 | 4.0 |      |      |
| G  | BMVWVW-t | MT20   | 6.0 | 8.0 | 3.00 | 3.00 |
| H  | BMV1+p   | MT20   | 3.0 | 4.0 |      |      |

**NOTES:** (1)

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

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

| BEARINGS |  | FACTORED GROSS REACTION |      | MAXIMUM FACTORED GROSS REACTION |      | INPUT BRG |            | RECORD BRG |  |
|----------|--|-------------------------|------|---------------------------------|------|-----------|------------|------------|--|
| JT       |  | VERT                    | HORZ | DOWN                            | HORZ | UPLIFT    | IN-SX      | IN-SX      |  |
| E        |  | 271                     | 0    | 271                             | 0    | 0         | MECHANICAL |            |  |
| H        |  | 396                     | 0    | 396                             | 0    | 0         | 5-8        | 5-8        |  |

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

**UNFACTORED REACTIONS**

| JT | 1ST LOASE | MAX. MIN. COMPONENT REACTIONS |     |     |     |      |     |
|----|-----------|-------------------------------|-----|-----|-----|------|-----|
| E  | 192       | 126.0                         | 0.0 | 0.0 | 0.0 | 66.0 | 0.0 |
| H  | 277       | 195.0                         | 0.0 | 0.0 | 0.0 | 82.0 | 0.0 |

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

**BRACING**

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

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

**LOADING**

TOTAL LOAD CASES: (4)

| CHORDS |                           |                          |                               | WEBS  |                           |                               |  |
|--------|---------------------------|--------------------------|-------------------------------|-------|---------------------------|-------------------------------|--|
| MEMB.  | MAX. FACTORED FORCE (LBS) | FACTORED VERT. LOAD (PL) | MAX. FACTORED VERT. LOAD (LC) | MEMB. | MAX. FACTORED FORCE (LBS) | MAX. FACTORED VERT. LOAD (LC) |  |
| FR-TO  |                           | FROM TO                  |                               | FR-TO |                           |                               |  |
| A-B    | 0.128                     | -91.8                    | -91.8 0.12 (1)                | B-G   | 0.158                     | 0.04 (1)                      |  |
| B-C    | -160.0                    | -91.8                    | -91.8 0.12 (1)                | G-E   | -17.0                     | 9.00 (1)                      |  |
| C-D    | -177.0                    | -91.8                    | -91.8 0.11 (1)                | G-D   | 0.320                     | 0.07 (1)                      |  |
| E-D    | -247.0                    | 0.0                      | 0.0 0.08 (1)                  |       |                           |                               |  |
| H-B    | -365.0                    | 0.0                      | 0.0 0.04 (1)                  |       |                           |                               |  |
| H-G    | 0.0                       | -18.5                    | -18.5 0.06 (4)                |       |                           |                               |  |
| F-G    | 0.17                      | 0.0                      | 0.0 0.02 (1)                  |       |                           |                               |  |
| G-C    | -291.0                    | 0.0                      | 0.0 0.02 (1)                  |       |                           |                               |  |
| F-E    | 0.15                      | -18.5                    | -18.5 0.02 (4)                |       |                           |                               |  |

**DESIGN CRITERIA**

**SPECIFIED LOADS:**

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

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

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

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

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

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

CSI: TC=0.12/1.00 (A-B:1), BC=0.06/1.00 (G-H:4), WB=0.07/1.00 (D-G:1), SS=0.12/1.00 (B-C:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE RIGHT HEEL ONLY

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

**NAIL VALUES**

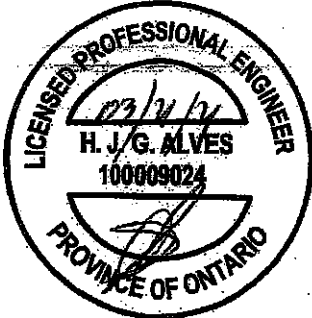
| PLATE   | GRIP(DRY) | SHEAR    | SECTION   |
|---------|-----------|----------|-----------|
| (PSI)   | (PLI)     | (PLI)    |           |
| MAX MIN | MAX MIN   | MAX MIN  |           |
| MT20    | 850 371   | 1747 788 | 1987 1873 |

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.34 (D) (INPUT = 0.90)

JSI METAL= 0.10 (B) (INPUT = 1.00)

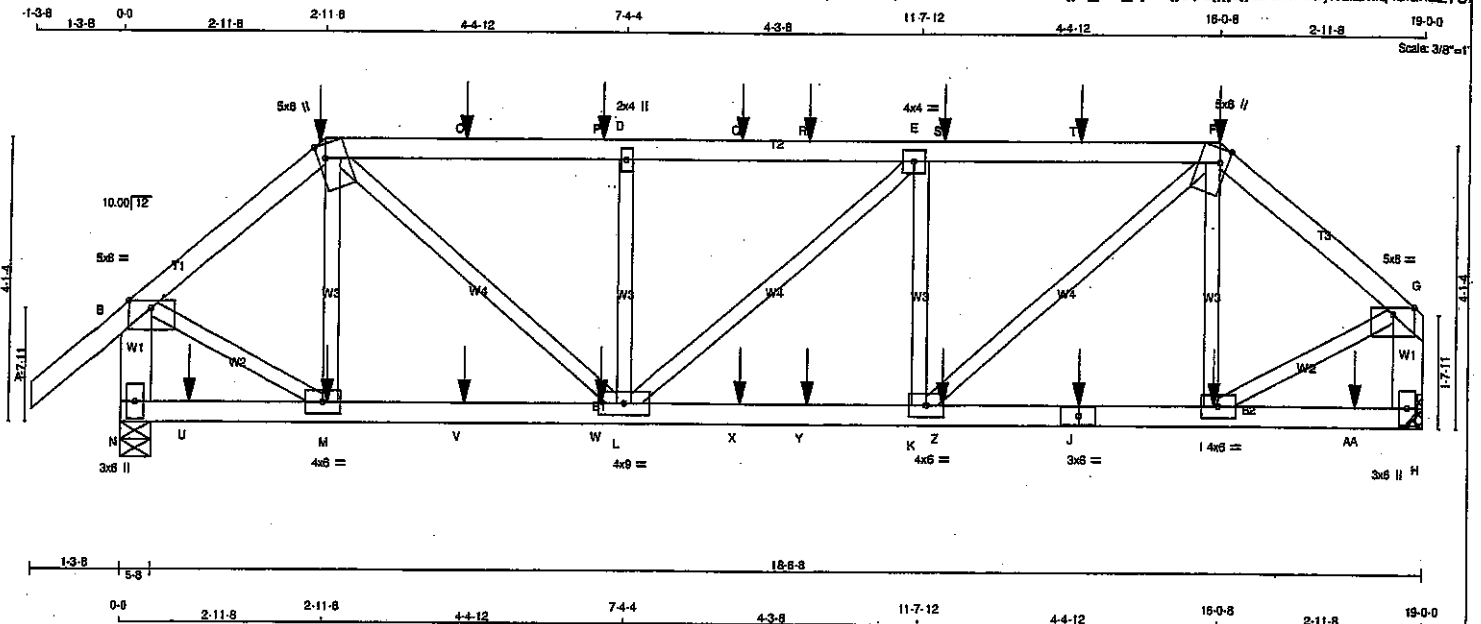


Structural component only

|                           |                          |                      |                 |                                     |          |
|---------------------------|--------------------------|----------------------|-----------------|-------------------------------------|----------|
| JOB NAME<br><b>417416</b> | TRUSS NAME<br><b>T50</b> | QUANTITY<br><b>1</b> | PLY<br><b>1</b> | JOB DESC.<br><b>GREENPARK HOMES</b> | DRWG NO. |
|---------------------------|--------------------------|----------------------|-----------------|-------------------------------------|----------|

Tamarack Roof Truss, Burlington

Version 8.420 S Jan 21 2021 MITek Industries, Inc. Sat Mar 20 07:42:35 2021 Page 1  
ID:SKJDj76mu4YpKXoNwwHk5za4YO-egN\_GD\_kyAEg8lpZggcgGKHw4ByxGamiq4ufuhzZ775



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

DRY: SEASONED LUMBER.

#### PLATES (table is in inches)

| JT      | TYPE   | PLATES | W   | LEN | Y    | X    |
|---------|--------|--------|-----|-----|------|------|
| B       | TMVW-p | MT20   | 5.0 | 8.0 | Edge |      |
| C       | TTWW+m | MT20   | 5.0 | 8.0 | Edge | 1.25 |
| D       | TMVW-w | MT20   | 2.0 | 4.0 |      |      |
| E       | TMVW-t | MT20   | 4.0 | 4.0 |      |      |
| F       | TTWW+m | MT20   | 5.0 | 8.0 | Edge | 1.25 |
| G       | TMVW-p | MT20   | 5.0 | 8.0 | Edge |      |
| H       | BMV1+p | MT20   | 3.0 | 6.0 |      |      |
| I, K, M |        |        |     |     |      |      |
| J       | BMVW-t | MT20   | 4.0 | 6.0 |      |      |
| L       | BS-t   | MT20   | 3.0 | 6.0 |      |      |
| N       | BMVW-t | MT20   | 4.0 | 9.0 |      |      |
| N       | BMV1+p | MT20   | 3.0 | 6.0 |      |      |

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

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

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

| BEARINGS | FACTORED GROSS REACTION | MAXIMUM FACTORED GROSS REACTION | INPUT BRG | REQD BRG |
|----------|-------------------------|---------------------------------|-----------|----------|
| JT       | VERT                    | HORZ                            | DOWN      | UPLIFT   |
| N        | 2011                    | 0                               | 2011      | 0        |
| H        | 1859                    | 0                               | 1859      | 0        |

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

#### UNFACTORED REACTIONS

| JT | 1ST LOASE | SNOW  | LIVE | PERM. LIVE | WIND | DEAD  | SOIL |
|----|-----------|-------|------|------------|------|-------|------|
| N  | 1419      | 949'0 | 0'0  | 0'0        | 0'0  | 470'0 | 0'0  |
| H  | 1315      | 861'0 | 0'0  | 0'0        | 0'0  | 454'0 | 0'0  |

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

#### BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.85 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    | 0'41    | -91.8                     | -91.8                     | 0.14 (1)                  | 10.00 | M-C   | -442'0                    | 0.12 (1)                  |
| B-C    | -1768'0 | -91.8                     | -91.8                     | 0.20 (1)                  | 4.80  | C-L   | 0'1297                    | 0.32 (1)                  |
| C-O    | -2323'0 | -91.8                     | -91.8                     | 0.52 (1)                  | 3.86  | L-D   | -711'0                    | 0.19 (1)                  |
| O-P    | -2323'0 | -91.8                     | -91.8                     | 0.52 (1)                  | 3.86  | E-L   | 0'4                       | 0.00 (1)                  |
| P-D    | -2323'0 | -91.8                     | -91.8                     | 0.52 (1)                  | 3.86  | K-E   | -718'0                    | 0.19 (1)                  |
| D-Q    | -2324'0 | -91.8                     | -91.8                     | 0.52 (1)                  | 3.85  | K-F   | 0'1319                    | 0.33 (1)                  |
| Q-R    | -2324'0 | -91.8                     | -91.8                     | 0.52 (1)                  | 3.85  | F-F   | -438'0                    | 0.12 (1)                  |
| R-E    | -2324'0 | -91.8                     | -91.8                     | 0.52 (1)                  | 3.85  | B-M   | 0'1472                    | 0.36 (1)                  |
| E-S    | -2320'0 | -91.8                     | -91.8                     | 0.53 (1)                  | 3.85  | I-G   | 0'1450                    | 0.36 (1)                  |
| S-T    | -2320'0 | -91.8                     | -91.8                     | 0.53 (1)                  | 3.85  |       |                           |                           |
| T-F    | -2320'0 | -91.8                     | -91.8                     | 0.53 (1)                  | 3.85  |       |                           |                           |
| F-G    | -1742'0 | -91.8                     | -91.8                     | 0.20 (1)                  | 4.83  |       |                           |                           |
| N-B    | -1978'0 | 0.0                       | 0.0                       | 0.15 (1)                  | 7.13  |       |                           |                           |
| H-G    | -1825'0 | 0.0                       | 0.0                       | 0.14 (1)                  | 7.35  |       |                           |                           |

| 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 |       |                           |                           |
| N-U    | 0'0    | -18.5                     | -18.5                     | 0.10 (4)                  | 10.00 |       |                           |                           |
| U-M    | 0'0    | -18.5                     | -18.5                     | 0.10 (4)                  | 10.00 |       |                           |                           |
| M-V    | 0'1341 | -18.5                     | -18.5                     | 0.30 (1)                  | 10.00 |       |                           |                           |
| V-W    | 0'1341 | -18.5                     | -18.5                     | 0.30 (1)                  | 10.00 |       |                           |                           |
| W-L    | 0'1341 | -18.5                     | -18.5                     | 0.30 (1)                  | 10.00 |       |                           |                           |
| L-X    | 0'2321 | -18.5                     | -18.5                     | 0.49 (1)                  | 10.00 |       |                           |                           |
| X-Y    | 0'2321 | -18.5                     | -18.5                     | 0.49 (1)                  | 10.00 |       |                           |                           |
| Y-K    | 0'2321 | -18.5                     | -18.5                     | 0.49 (1)                  | 10.00 |       |                           |                           |
| K-Z    | 0'1322 | -18.5                     | -18.5                     | 0.29 (1)                  | 10.00 |       |                           |                           |
| Z-J    | 0'1322 | -18.5                     | -18.5                     | 0.29 (1)                  | 10.00 |       |                           |                           |
| J-I    | 0'1322 | -18.5                     | -18.5                     | 0.29 (1)                  | 10.00 |       |                           |                           |
| AA-H   | 0'0    | -18.5                     | -18.5                     | 0.10 (4)                  | 10.00 |       |                           |                           |

#### SPECIFIED CONCENTRATED LOADS (LBS)

| JT | LOC.     | LC1  | MAX- | MAX+ | FACE  | DIR. | HEEL  | CONN. |
|----|----------|------|------|------|-------|------|-------|-------|
| C  | 2-11-8   | -30  | -30  | -    | FRONT | VERT | DEAD  | C1    |
| C  | 2-11-8   | -108 | -108 | -    | FRONT | VERT | TOTAL | C1    |
| C  | 2-11-8   | -125 | -125 | -    | FRONT | VERT | SNOW  | C1    |
| F  | 16-0-8   | -30  | -30  | -    | FRONT | VERT | DEAD  | C1    |
| F  | 16-0-8   | -82  | -82  | -    | FRONT | VERT | TOTAL | C1    |
| F  | 16-0-8   | -125 | -125 | -    | FRONT | VERT | SNOW  | C1    |
| I  | 15-11-12 | -21  | -21  | -    | FRONT | VERT | TOTAL | C1    |

#### 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 \*\*\*  
ADD'L 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 BCBC 2018, ABC 2019
- PART 9 OF CBC 2012 (2019 AMENDMENT)
- CSA 086-14
- TPIC 2014

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

ALLOWABLE DEFL.(LL) = L/360 (0.63")  
CALCULATED VERT. DEFL.(LL) = L/999 (0.06")  
ALLOWABLE DEFL.(TL) = L/360 (0.63")  
CALCULATED VERT. DEFL.(TL) = L/999 (0.12")

CSI: TC=0.53/1.00 (E-F:1), BC=0.49/1.00 (K-L:1), WB=0.36/1.00 (B-M:1), SSI=0.36/1.00 (E-F:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE HEELS OFF

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

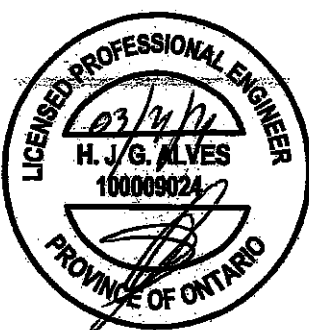
#### NAIL VALUES

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

PLATE PLACEMENT TOL = 0.250 inches

PLATE ROTATION TOL = 5.0 Deg.

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



Structural component only  
DWG# T-2108071 1/1

|                                 |                   |               |          |                                                                                                                                                               |             |          |
|---------------------------------|-------------------|---------------|----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|----------|
| JOB NAME<br>417416              | TRUSS NAME<br>T50 | QUANTITY<br>1 | PLY<br>1 | JOB DESC.<br>GREENPARK HOMES                                                                                                                                  | TRUSS DESC. | DRWG NO. |
| Tamarack Roof Truss, Burlington |                   |               |          | Version 8.420 S Jan 21 2021 MITek Industries, Inc. Sat Mar 20 07:42:35 2021 Page 2<br>ID:SKJDI76mu4YipKXoNwwHk5za4YO-egN GD kyAEq8lpZgqGKHw4BvxGamiq4ufuhzZ75 |             |          |

| SPECIFIED CONCENTRATED LOADS (LBS) |          |     |      |      |       |      |       |      |       |
|------------------------------------|----------|-----|------|------|-------|------|-------|------|-------|
| JT                                 | LOC.     | LC1 | MAX- | MAX+ | FACE  | DIR. | TYPE  | HEEL | CONN. |
| J                                  | 13-11-12 | -21 | -21  | ---  | FRONT | VERT | TOTAL | ---  | C1    |
| M                                  | 3-0-4    | -21 | -21  | ---  | FRONT | VERT | TOTAL | ---  | C1    |
| O                                  | 5-0-4    | -76 | -76  | ---  | FRONT | VERT | TOTAL | ---  | C1    |
| P                                  | 7-0-4    | -76 | -76  | ---  | FRONT | VERT | TOTAL | ---  | C1    |
| Q                                  | 9-0-4    | -76 | -76  | ---  | FRONT | VERT | TOTAL | ---  | C1    |
| R                                  | 9-11-12  | -76 | -76  | ---  | FRONT | VERT | TOTAL | ---  | C1    |
| S                                  | 11-11-12 | -76 | -76  | ---  | FRONT | VERT | TOTAL | ---  | C1    |
| T                                  | 13-11-12 | -76 | -76  | ---  | FRONT | VERT | TOTAL | ---  | C1    |
| U                                  | 1-0-4    | -21 | -21  | ---  | FRONT | VERT | TOTAL | ---  | C1    |
| V                                  | 5-0-4    | -21 | -21  | ---  | FRONT | VERT | TOTAL | ---  | C1    |
| W                                  | 7-0-4    | -21 | -21  | ---  | FRONT | VERT | TOTAL | ---  | C1    |
| X                                  | 9-0-4    | -21 | -21  | ---  | FRONT | VERT | TOTAL | ---  | C1    |
| Y                                  | 9-11-12  | -21 | -21  | ---  | FRONT | VERT | TOTAL | ---  | C1    |
| Z                                  | 11-11-12 | -21 | -21  | ---  | FRONT | VERT | TOTAL | ---  | C1    |
| AA                                 | 17-11-12 | -21 | -21  | ---  | FRONT | VERT | TOTAL | ---  | C1    |

**CONNECTION REQUIREMENTS**

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

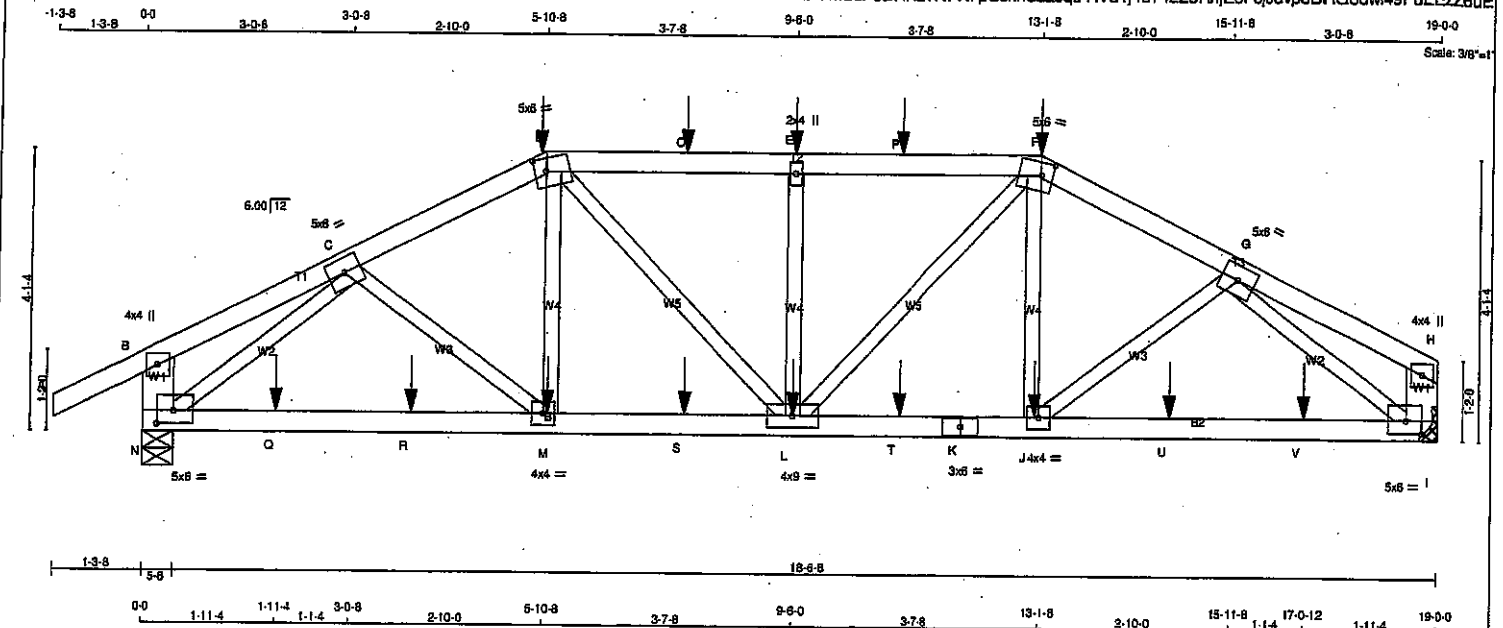


| JOB NAME | TRUSS NAME | QUANTITY | PLY | JOB DESC.   | GREENPARK HOMES | DRWG NO. |
|----------|------------|----------|-----|-------------|-----------------|----------|
| 417419   | T60        | 1        | 1   | TRUSS DESC. |                 |          |

Tamarack Roof Truss, Burlington

Version 8.420 S Jan 21 2021 Mitek Industries, Inc. Sat Mar 20 07:56:31 2021 Page 1

ID:PYmSsP3BHh2?NFX7pCcknSza0qu-AVu1j45742Z3RnjEeFc9dvp3BHG8dw49PuEezZ6uE



TOTAL WEIGHT = 77 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 - H           | 2x4  | DRY No.2 | SPF    |
| N - B           | 2x6  | DRY No.2 | SPF    |
| I - H           | 2x6  | DRY No.2 | SPF    |
| N - K           | 2x4  | DRY No.2 | SPF    |
| K - I           | 2x4  | DRY No.2 | SPF    |
| ALL WEBS EXCEPT | 2x3  | DRY No.2 | SPF    |

DRY: SEASONED LUMBER.

#### PLATES (table is in inches)

| JT TYPE   | PLATES | W   | LEN | Y    | X    |
|-----------|--------|-----|-----|------|------|
| B TMV+p   | MT20   | 4.0 | 4.0 |      |      |
| C TMWW+t  | MT20   | 5.0 | 6.0 |      |      |
| D TTWW-m  | MT20   | 5.0 | 6.0 | 2.25 | 2.00 |
| E TMW+w   | MT20   | 2.0 | 4.0 |      |      |
| F TTWW-m  | MT20   | 5.0 | 6.0 | 2.25 | 2.00 |
| G TMWW+t  | MT20   | 5.0 | 6.0 |      |      |
| H TMV+p   | MT20   | 4.0 | 4.0 |      |      |
| I BMVW1-t | MT20   | 5.0 | 6.0 | 2.25 | 2.75 |
| J BMWW+t  | MT20   | 4.0 | 4.0 |      |      |
| K BS-t    | MT20   | 3.0 | 6.0 |      |      |
| L BMWWW+t | MT20   | 4.0 | 9.0 |      |      |
| M BMWW+t  | MT20   | 4.0 | 4.0 |      |      |
| N BMVW1-t | MT20   | 5.0 | 6.0 | 2.25 | 2.75 |

#### NOTES

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

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

| FACTORED GROSS REACTION | MAXIMUM FACTORED GROSS REACTION | INPUT | REQD |
|-------------------------|---------------------------------|-------|------|
| JT VERT                 | HORZ                            | DOWN  | HORZ |
| 1719                    | 0                               | 1719  | 0    |
| 1843                    | 0                               | 1843  | 0    |

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

#### UNFACTORED REACTIONS

| 1ST CASE    | MAX./MIN. COMPONENT REACTIONS |       |           |       |         |       |
|-------------|-------------------------------|-------|-----------|-------|---------|-------|
| JT COMBINED | SNOW                          | LIVE  | PERM/LIVE | WIND  | DEAD    | SOIL  |
| 1218        | 787 / 0                       | 0 / 0 | 0 / 0     | 0 / 0 | 430 / 0 | 0 / 0 |
| 1303        | 857 / 0                       | 0 / 0 | 0 / 0     | 0 / 0 | 447 / 0 | 0 / 0 |

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

#### BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.90 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     | VERT. LOAD | LC1 MAX        | MAX.          | MEMB. | FORCE     | MAX      |
|               | (LBS)     | (PLF)      | CSI (LC)       | UNBRAC        |       | (LBS)     | CSI (LC) |
| FR-TO         |           | FROM TO    |                | LENGTH        | FR-TO |           |          |
| A-B           | 0 / 28    | -91.8      | -91.8 0.13 (1) | 10.00         | M-D   | 0 / 143   | 0.05 (4) |
| B-C           | 0 / 9     | -91.8      | -91.8 0.11 (1) | 10.00         | D-L   | 0 / 504   | 0.12 (1) |
| C-D           | -2403 / 0 | -91.8      | -91.8 0.19 (1) | 4.24          | L-E   | -967 / 0  | 0.18 (1) |
| D-O           | -2488 / 0 | -91.8      | -91.8 0.40 (1) | 3.90          | L-F   | 0 / 504   | 0.12 (1) |
| E-O           | -2488 / 0 | -91.8      | -91.8 0.40 (1) | 3.90          | J-F   | 0 / 143   | 0.05 (4) |
| E-P           | -2488 / 0 | -91.8      | -91.8 0.40 (1) | 3.90          | C-M   | 0 / 248   | 0.06 (1) |
| F-F           | -2488 / 0 | -91.8      | -91.8 0.40 (1) | 3.90          | N-C   | -2477 / 0 | 0.61 (1) |
| F-G           | -2403 / 0 | -91.8      | -91.8 0.19 (1) | 4.24          | J-G   | 0 / 248   | 0.06 (1) |
| G-H           | 0 / 9     | -91.8      | -91.8 0.11 (1) | 10.00         | G-I   | -2477 / 0 | 0.61 (1) |
| N-B           | -240 / 0  | 0.0        | 0.0 0.02 (1)   | 7.81          |       |           |          |
| I-H           | -118 / 0  | 0.0        | 0.0 0.01 (1)   | 7.81          |       |           |          |

|     |          |                      |       |
|-----|----------|----------------------|-------|
| N-Q | 0 / 1943 | -18.5 -18.5 0.49 (1) | 10.00 |
| Q-R | 0 / 1943 | -18.5 -18.5 0.49 (1) | 10.00 |
| R-M | 0 / 1943 | -18.5 -18.5 0.49 (1) | 10.00 |
| M-S | 0 / 2140 | -18.5 -18.5 0.50 (1) | 10.00 |
| S-L | 0 / 2140 | -18.5 -18.5 0.50 (1) | 10.00 |
| L-T | 0 / 2140 | -18.5 -18.5 0.50 (1) | 10.00 |
| T-K | 0 / 2140 | -18.5 -18.5 0.50 (1) | 10.00 |
| K-J | 0 / 2140 | -18.5 -18.5 0.50 (1) | 10.00 |
| J-U | 0 / 1943 | -18.5 -18.5 0.49 (1) | 10.00 |
| U-V | 0 / 1943 | -18.5 -18.5 0.49 (1) | 10.00 |
| V-I | 0 / 1943 | -18.5 -18.5 0.49 (1) | 10.00 |

#### SPECIFIED CONCENTRATED LOADS (LBS)

| JT | LOC.    | LC1  | MAX. | FACE  | DIR. | TYPE  | HEEL | CONN. |
|----|---------|------|------|-------|------|-------|------|-------|
| D  | 5-10-8  | -269 | -269 | FRONT | VERT | TOTAL | -    | C1    |
| E  | 9-6-0   | -76  | -76  | FRONT | VERT | TOTAL | -    | C1    |
| F  | 13-1-8  | -269 | -269 | FRONT | VERT | TOTAL | -    | C1    |
| J  | 13-0-12 | -21  | -21  | FRONT | VERT | TOTAL | -    | C1    |
| L  | 9-6-0   | -21  | -21  | FRONT | VERT | TOTAL | -    | C1    |
| M  | 5-11-4  | -21  | -21  | FRONT | VERT | TOTAL | -    | C1    |
| O  | 7-11-4  | -76  | -76  | FRONT | VERT | TOTAL | -    | C1    |
| P  | 11-0-12 | -76  | -76  | FRONT | VERT | TOTAL | -    | C1    |
| Q  | 1-11-4  | -20  | -20  | FRONT | VERT | TOTAL | -    | C1    |
| R  | 3-11-4  | -21  | -21  | FRONT | VERT | TOTAL | -    | C1    |
| S  | 7-11-4  | -21  | -21  | FRONT | VERT | TOTAL | -    | C1    |
| T  | 11-0-12 | -21  | -21  | FRONT | VERT | TOTAL | -    | C1    |

#### DESIGN CRITERIA

##### SPECIFIED LOADS:

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

SPACING = 24.0 IN. C/C

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

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

THIS DESIGN COMPLIES WITH:

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

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

ALLOWABLE DEFL.(LL) = L/360 (0.63")  
CALCULATED VERT. DEFL.(LL) = L/989 (0.07")  
ALLOWABLE DEFL.(TL) = L/360 (0.63")  
CALCULATED VERT. DEFL.(TL) = L/989 (0.13")

CSF: TC=0.40/1.00 (D-E:1), BC=0.50/1.00 (J-L:1), WB=0.81/1.00 (C-N:1), SS=0.24/1.00 (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.

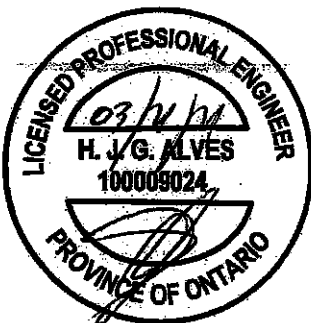
#### NAIL VALUES

| PLATE GRIP(DRY) | SHEAR   | SECTION            |
|-----------------|---------|--------------------|
| (PS)            | (PL)    | (PL)               |
| MAX MIN         | MAX MIN | MAX MIN            |
| MT20            | 650 371 | 1747 788 1987 1673 |

PLATE PLACEMENT TOL = 0.250 inches

PLATE ROTATION TOL = 5.0 Deg.

JSI GRIP = 0.83 (I) (INPUT = 0.80)  
JSI METAL = 0.65 (K) (INPUT = 1.00)



Structural component only  
DWG# T-2108075 //L

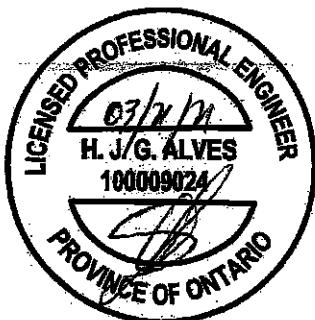
CONTINUED ON PAGE 2

|                                 |                          |                      |                 |                                                                                                                                                                  |          |
|---------------------------------|--------------------------|----------------------|-----------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|
| JOB NAME<br><b>417419</b>       | TRUSS NAME<br><b>T60</b> | QUANTITY<br><b>1</b> | PLY<br><b>1</b> | JOB DESC.<br><b>GREENPARK HOMES</b>                                                                                                                              | DRWG NO. |
| Tamarack Roof Truss, Burlington |                          |                      |                 | Version 8.420 8 Jan 21 2021 MITek Industries, Inc. Sat Mar 20 07:56:31 2021 Page 2<br>ID:PYmSsP3BHhZ?NFX7pCcknSza0qu-AVu1i45742Z3RnIEeFci9dvp3BHG8dwl49PuEEzZ6uE |          |

| SPECIFIED CONCENTRATED LOADS (LBS) |         |     |      |      |       |      |       |      |       |
|------------------------------------|---------|-----|------|------|-------|------|-------|------|-------|
| JT                                 | LOC.    | LC1 | MAX- | MAX+ | FACE  | DIR. | TYPE  | HEEL | CONN. |
| U                                  | 15-0-12 | -21 | -21  | —    | FRONT | VERT | TOTAL | —    | C1    |
| V                                  | 17-0-12 | -20 | -20  | —    | FRONT | VERT | TOTAL | —    | C1    |

**CONNECTION REQUIREMENTS**

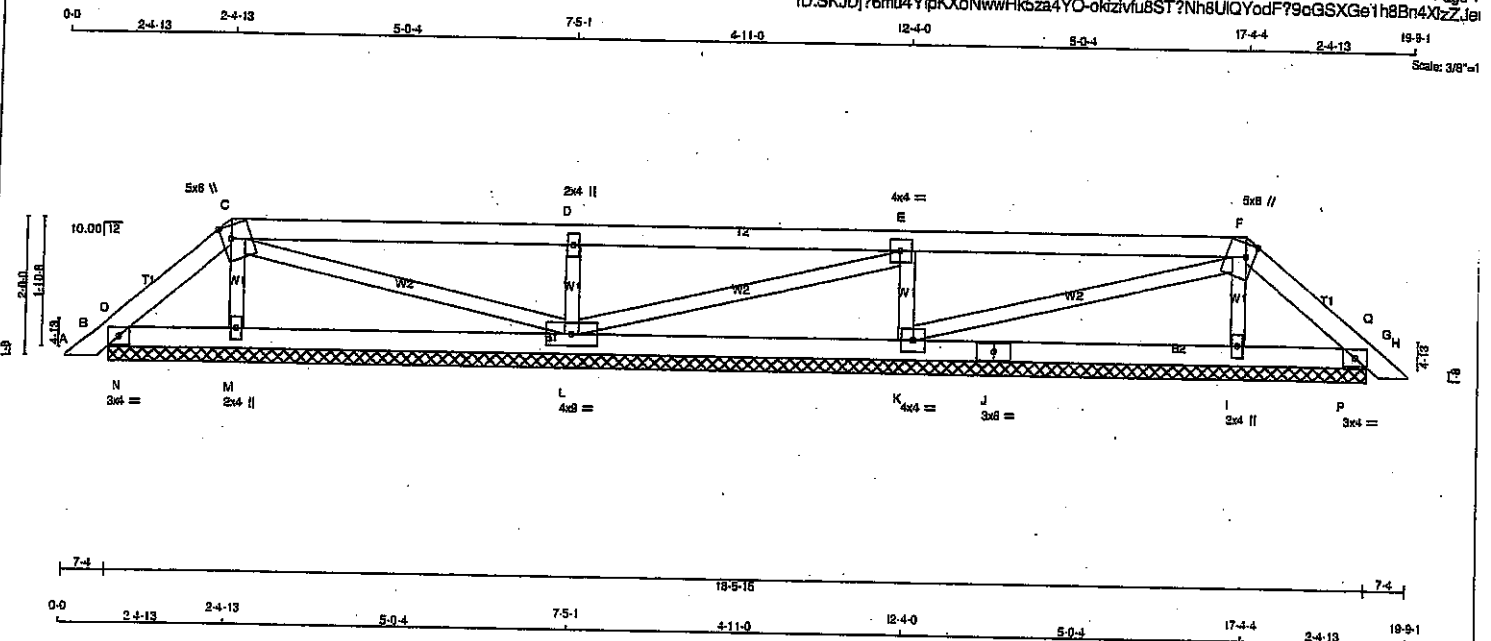
- 1) C1: A SUITABLE HANGER/MECHANICAL CONNECTION IS REQUIRED.



|          |            |          |     |             |                 |          |
|----------|------------|----------|-----|-------------|-----------------|----------|
| JOB NAME | TRUSS NAME | QUANTITY | PLY | JOB DESC.   | GREENPARK HOMES | DRWG NO. |
| 417375   | PB1        | 2        | 1   | TRUSS DESC. |                 |          |

Tamarack Roof Truss, Burlington

Version 8.420 S Jan 21 2021 Mitek Industries, Inc. Fri Mar 19 17:25:32 2021 Page 1  
ID:SKJDJ76mu4YipKXoNwwHk5za4YO-0kizivU8ST?Nh8UIQYodF79cGSXGe1h8Bn4X0zZJei



| LUMBER                | N. L. G. A. RULES | CHORDS | SIZE | LUMBER | DESCR. |
|-----------------------|-------------------|--------|------|--------|--------|
| A - C                 | 2x4               | DRY    | No.2 | SPF    |        |
| C - F                 | 2x4               | DRY    | No.2 | SPF    |        |
| F - H                 | 2x4               | DRY    | No.2 | SPF    |        |
| B - J                 | 2x4               | DRY    | No.2 | SPF    |        |
| J - G                 | 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 TMB1-I  | MT20   | 3.0 | 4.0 |      |      |
| C TTWW+m  | MT20   | 5.0 | 6.0 | 2.25 | 1.50 |
| D TMW+w   | MT20   | 2.0 | 4.0 |      |      |
| E TMWW-t  | MT20   | 4.0 | 4.0 |      |      |
| F TTWW+m  | MT20   | 5.0 | 6.0 | 2.25 | 1.50 |
| G TMB1-I  | MT20   | 3.0 | 4.0 |      |      |
| I BMW1+w  | MT20   | 2.0 | 4.0 |      |      |
| J BS-t    | MT20   | 3.0 | 6.0 |      |      |
| K BMW1-t  | MT20   | 4.0 | 4.0 |      |      |
| L BMWW1-t | MT20   | 4.0 | 9.0 |      |      |
| M BMW1+w  | MT20   | 2.0 | 4.0 |      |      |

#### NOTES- (1)

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

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

| JT | FACTORED GROSS REACTION |      | MAXIMUM FACTORED GROSS REACTION |      | INPUT BRG IN-SX      | RECD BRG IN-SX |
|----|-------------------------|------|---------------------------------|------|----------------------|----------------|
|    | VERT                    | HORZ | DOWN                            | HORZ |                      |                |
| B  | 164                     | 0    | 164                             | 0    | 18-5-15 (12-1188-15) |                |
| M  | 301                     | 0    | 301                             | 0    | 18-5-15 (12-1188-15) |                |
| I  | 298                     | 0    | 298                             | 0    | 18-5-15 (12-1188-15) |                |
| G  | 172                     | 0    | 172                             | 0    | 18-5-15 (12-1188-15) |                |
| K  | 591                     | 0    | 591                             | 0    | 18-5-15 (12-1188-15) |                |
| L  | 610                     | 0    | 610                             | 0    | 18-5-15 (12-1188-15) |                |

VALUE IN PARENTHESIS INDICATES EFFECTIVE BEARING LENGTH

#### UNFACTORED REACTIONS

| JT | 1ST LCASE | MAX/MIN. COMPONENT REACTIONS | SNOW | LIVE | PERM. LIVE | WIND | DEAD  | SOIL |
|----|-----------|------------------------------|------|------|------------|------|-------|------|
| B  | 113       | 91/0                         | 0/0  | 0/0  | 0/0        | 0/0  | 22/0  | 0/0  |
| M  | 216       | 125/0                        | 0/0  | 0/0  | 0/0        | 0/0  | 91/0  | 0/0  |
| I  | 213       | 123/0                        | 0/0  | 0/0  | 0/0        | 0/0  | 91/0  | 0/0  |
| G  | 118       | 95/0                         | 0/0  | 0/0  | 0/0        | 0/0  | 23/0  | 0/0  |
| K  | 417       | 278/0                        | 0/0  | 0/0  | 0/0        | 0/0  | 139/0 | 0/0  |
| L  | 430       | 288/0                        | 0/0  | 0/0  | 0/0        | 0/0  | 142/0 | 0/0  |

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

#### BRACING

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

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

#### LOADING

TOTAL LOAD CASES: (4)

| FR-TO | CHORDS                    |                | FACTORED            |                    | MAX. UNBRACED LENGTH | MEMB. FORCE (LBS) | WEBS                      |                    |
|-------|---------------------------|----------------|---------------------|--------------------|----------------------|-------------------|---------------------------|--------------------|
|       | MAX. FACTORED FORCE (LBS) | VERT. LOAD LC1 | MAX. FACTORED (PLF) | MAX. FACTORED (LC) |                      |                   | MAX. FACTORED FORCE (LBS) | MAX. FACTORED (LC) |
| A-B   | 0/14                      | -91.8          | -91.8               | 0.02 (1)           | 10.00                | M-C               | -207/0                    | 0.03 (1)           |
| B-O   | -25/6                     | -91.8          | -91.8               | 0.01 (1)           | 6.25                 | I-F               | -203/0                    | 0.03 (1)           |
| C-C   | -55/0                     | -91.8          | -91.8               | 0.03 (1)           | 6.25                 | K-F               | -18/0                     | 0.01 (1)           |
| C-D   | 0/6                       | -91.8          | -91.8               | 0.31 (1)           | 10.00                | C-L               | -32/0                     | 0.01 (1)           |
| D-E   | 0/6                       | -91.8          | -91.8               | 0.31 (1)           | 10.00                | K-E               | -493/0                    | 0.07 (1)           |
| E-F   | -17/0                     | -91.8          | -91.8               | 0.31 (1)           | 6.25                 | L-D               | -501/0                    | 0.07 (1)           |
| F-Q   | -57/0                     | -91.8          | -91.8               | 0.03 (1)           | 6.25                 | L-E               | -24/0                     | 0.01 (1)           |
| Q-G   | -38/4                     | -91.8          | -91.8               | 0.01 (1)           | 6.25                 | N-O               | -122/0                    | 0.00 (1)           |
| G-H   | 0/14                      | -91.8          | -91.8               | 0.02 (1)           | 10.00                | P-Q               | -121/0                    | 0.00 (1)           |
| B-N   | 0/38                      | -18.5          | -18.5               | 0.04 (1)           | 10.00                |                   |                           |                    |
| N-M   | 0/38                      | -18.5          | -18.5               | 0.07 (4)           | 10.00                |                   |                           |                    |
| M-L   | 0/25                      | -18.5          | -18.5               | 0.09 (4)           | 10.00                |                   |                           |                    |
| L-K   | 0/17                      | -18.5          | -18.5               | 0.09 (4)           | 10.00                |                   |                           |                    |
| K-J   | 0/34                      | -18.5          | -18.5               | 0.09 (4)           | 10.00                |                   |                           |                    |
| J-I   | 0/34                      | -18.5          | -18.5               | 0.09 (4)           | 10.00                |                   |                           |                    |
| I-P   | 0/48                      | -18.5          | -18.5               | 0.07 (4)           | 10.00                |                   |                           |                    |
| P-G   | 0/48                      | -18.5          | -18.5               | 0.04 (1)           | 10.00                |                   |                           |                    |

#### DESIGN CRITERIA

##### SPECIFIED LOADS:

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

SPACING = 24.0 IN. C/C

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

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

THIS DESIGN COMPLIES WITH:

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

(55% OF 81.3 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=0.31/1.00 (D-E:1), BC=0.09/1.00 (I-K:4), WB=0.07/1.00 (D-L:1), SS=0.21/1.00 (E-F:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

#### NAIL VALUES

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

PLATE PLACEMENT TOL = 0.250 inches

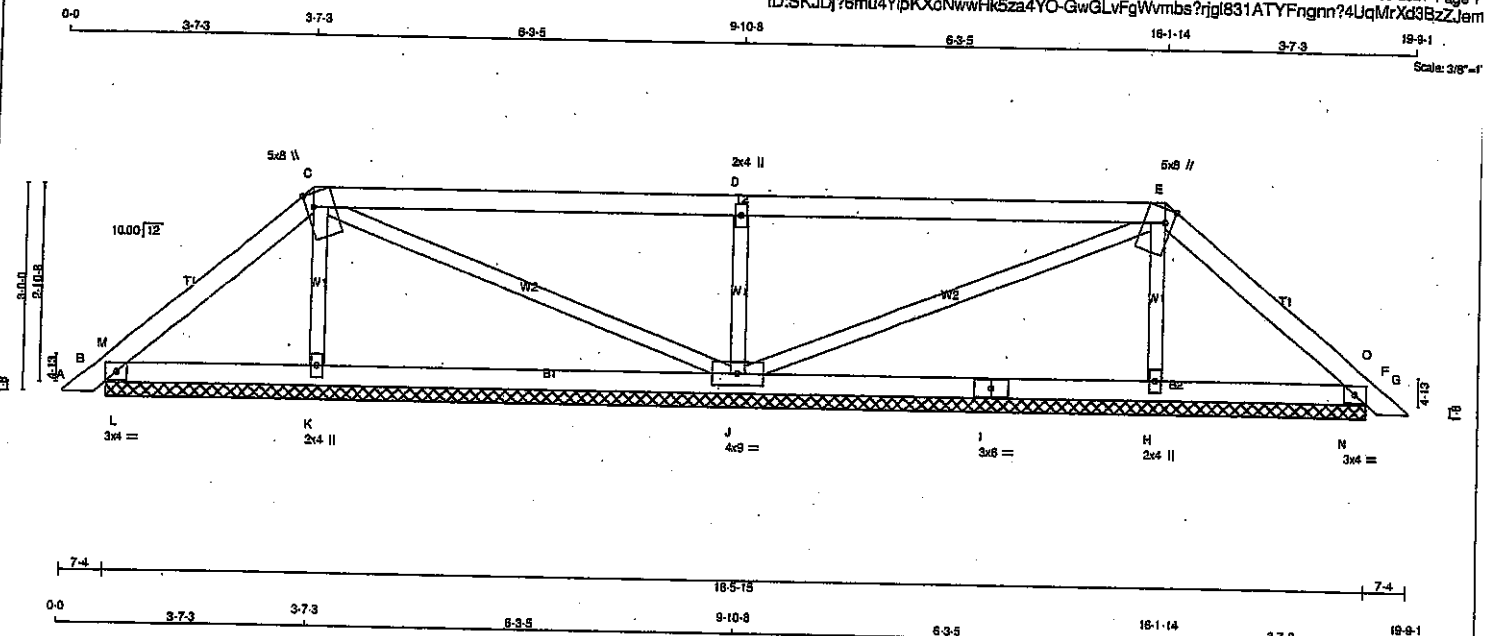
PLATE ROTATION TOL = 5.0 Deg.

JSI GRIP = 0.68 (E) (INPUT = 0.90)  
JSI METAL = 0.11 (D) (INPUT = 1.00)



| JOB NAME                        | TRUSS NAME | QUANTITY | PLY | JOB DESC.       | TRUSS DESC. | DRWG NO. |
|---------------------------------|------------|----------|-----|-----------------|-------------|----------|
| 417375                          | PB2        | 2        | 1   | GREENPARK HOMES |             |          |
| Tamarack Roof Truss, Burlington |            |          |     |                 |             |          |

Version 8.420 S Jan 21 2021 MTEK Industries, Inc. Fri Mar 19 17:25:33 2021 Page 1  
ID:SKJDj?6mu4YpKXoNwwHk5za4YO-GwGLvFgWmbs?njlg631ATYFngnn?4UqMrXd3BzZJem



| 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    |
| B - I                 | 2x4  | DRY No.2 | SPF    |
| I - F                 | 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  | TMB1-I  | MT20   | 3.0 | 4.0 |      |      |
| C  | TTWW+M  | MT20   | 5.0 | 8.0 | Edge | 1.25 |
| D  | TTWW+M  | MT20   | 2.0 | 4.0 |      |      |
| E  | TTWW+M  | MT20   | 5.0 | 8.0 | Edge | 1.25 |
| F  | TMB1-I  | MT20   | 3.0 | 4.0 |      |      |
| H  | BMW1+M  | MT20   | 2.0 | 4.0 |      |      |
| I  | BS-I    | MT20   | 3.0 | 8.0 |      |      |
| J  | BMWW1-I | MT20   | 4.0 | 8.0 |      |      |
| K  | BMW1+M  | MT20   | 2.0 | 4.0 |      |      |

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

#### NOTES - (1)

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

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

| JT | FACTORED GROSS REACTION |      | MAXIMUM FACTORED GROSS REACTION |             | INPUT BRG             | REQD BRG |
|----|-------------------------|------|---------------------------------|-------------|-----------------------|----------|
|    | VERT                    | HORZ | DOWN                            | HORZ UPLIFT |                       |          |
| B  | 257                     | 0    | 257                             | 0           | 18-5-15 (5-6-38-5-15) |          |
| K  | 375                     | 0    | 375                             | 0           | 18-5-15 (5-6-38-5-15) |          |
| J  | 869                     | 0    | 869                             | 0           | 18-5-15 (5-6-38-5-15) |          |
| H  | 375                     | 0    | 375                             | 0           | 18-5-15 (5-6-38-5-15) |          |
| F  | 257                     | 0    | 257                             | 0           | 18-5-15 (5-6-38-5-15) |          |

VALUE IN PARENTHESIS INDICATES EFFECTIVE BEARING LENGTH

#### UNFACTORED REACTIONS

| JT | 1ST LCASE<br>COMBINED | MAX./MIN. COMPONENT REACTIONS |       |           |       |         |
|----|-----------------------|-------------------------------|-------|-----------|-------|---------|
|    |                       | SNOW                          | LIVE  | PERM.LIVE | WIND  | DEAD    |
| B  | 179                   | 136 / 0                       | 0 / 0 | 0 / 0     | 0 / 0 | 43 / 0  |
| K  | 269                   | 156 / 0                       | 0 / 0 | 0 / 0     | 0 / 0 | 114 / 0 |
| J  | 612                   | 417 / 0                       | 0 / 0 | 0 / 0     | 0 / 0 | 195 / 0 |
| H  | 269                   | 156 / 0                       | 0 / 0 | 0 / 0     | 0 / 0 | 114 / 0 |
| F  | 179                   | 136 / 0                       | 0 / 0 | 0 / 0     | 0 / 0 | 43 / 0  |

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

#### BRACING

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

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

#### LOADING

TOTAL LOAD CASES: (4)

| MEMB. | MAX. FACTORED FORCE (LBS) | FACTORED VERT. LOAD LC1 |       | MAX. CS1 (LC) | MAX. UNBRAC LENGTH | MEMB. | MAX. FACTORED FORCE (LBS) | MAX. CS1 (LC) |
|-------|---------------------------|-------------------------|-------|---------------|--------------------|-------|---------------------------|---------------|
|       |                           | FROM                    | TO    |               |                    |       |                           |               |
| FR-TO |                           |                         |       |               |                    |       |                           |               |
| A-B   | 0 / 14                    | -91.8                   | -91.8 | 0.02 (1)      | 10.00              | K-C   | -250 / 0                  | 0.04 (1)      |
| B-M   | -3 / 0                    | -91.8                   | -91.8 | 0.05 (1)      | 10.00              | C-J   | -46 / 0                   | 0.04 (1)      |
| M-C   | -103 / 0                  | -91.8                   | -91.8 | 0.09 (1)      | 6.25               | J-D   | -719 / 0                  | 0.12 (1)      |
| C-D   | -19 / 0                   | -91.8                   | -91.8 | 0.81 (1)      | 6.25               | J-E   | -46 / 0                   | 0.04 (1)      |
| D-E   | -19 / 0                   | -91.8                   | -91.8 | 0.81 (1)      | 6.25               | H-E   | -250 / 0                  | 0.04 (1)      |
| E-O   | -103 / 0                  | -91.8                   | -91.8 | 0.09 (1)      | 6.25               | L-M   | -273 / 0                  | 0.00 (1)      |
| O-F   | -3 / 0                    | -91.8                   | -91.8 | 0.05 (1)      | 10.00              | N-O   | -273 / 0                  | 0.00 (1)      |
| F-G   | 0 / 14                    | -91.8                   | -91.8 | 0.02 (1)      | 10.00              |       |                           |               |
| B-L   | 0 / 73                    | -18.5                   | -18.5 | 0.10 (1)      | 10.00              |       |                           |               |
| L-K   | 0 / 73                    | -18.5                   | -18.5 | 0.11 (4)      | 10.00              |       |                           |               |
| K-J   | 0 / 63                    | -18.5                   | -18.5 | 0.16 (4)      | 10.00              |       |                           |               |
| J-I   | 0 / 63                    | -18.5                   | -18.5 | 0.16 (4)      | 10.00              |       |                           |               |
| I-H   | 0 / 63                    | -18.5                   | -18.5 | 0.16 (4)      | 10.00              |       |                           |               |
| H-N   | 0 / 73                    | -18.5                   | -18.5 | 0.11 (4)      | 10.00              |       |                           |               |
| N-F   | 0 / 73                    | -18.5                   | -18.5 | 0.10 (1)      | 10.00              |       |                           |               |

#### DESIGN CRITERIA

##### SPECIFIED LOADS:

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

SPACING = 24.0 IN. C/C

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

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

THIS DESIGN COMPLIES WITH:

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

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

CS1: TC=0.81/1.00 (C-D:1), BC=0.16/1.00 (J-K:4), WB=0.12/1.00 (D-J:1), SS=0.28/1.00 (C-D:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

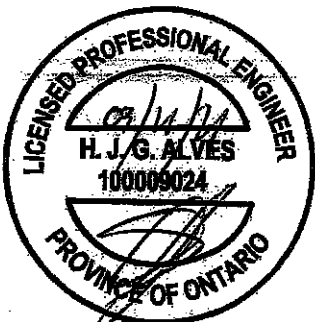
#### NAIL VALUES

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

PLATE PLACEMENT TOL = 0.250 inches

PLATE ROTATION TOL = 5.0 Deg.

JSI GRIP = 0.84 (C) (INPUT = 0.90)  
JSI METAL = 0.15 (D) (INPUT = 1.00)



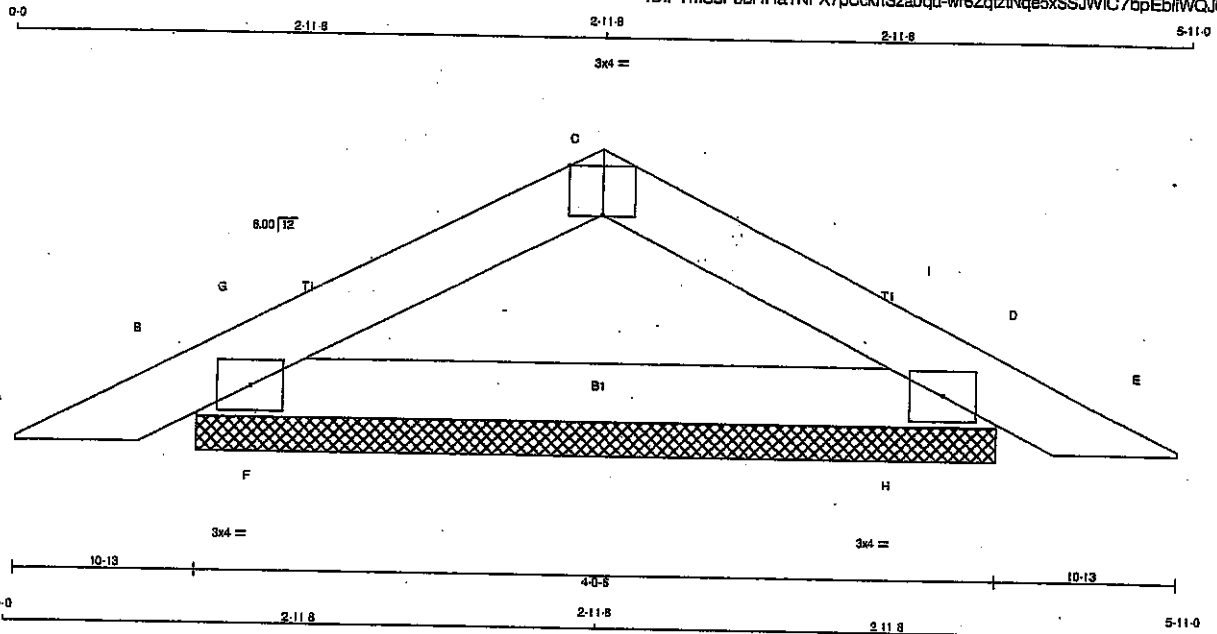
Structural component only  
DWG# T.2108000



|          |            |          |     |             |                 |          |
|----------|------------|----------|-----|-------------|-----------------|----------|
| JOB NAME | TRUSS NAME | QUANTITY | PLY | JOB DESC.   | GREENPARK HOMES | DRWG NO. |
| 417413   | PB21       | 6        | 1   | TRUSS DESC. |                 |          |

Tamarack Roof Truss, Burlington

Version 8.420 S Jan 21 2021 MITek Industries, Inc. Fri Mar 19 17:48:22 2021 Page 1  
ID:PYmSsP3BHHa7NFX7pCcknSza0qu-wr6ZqtztNqe5xSSJWIC7bpEbIwQJO9AztBikszZJIR



Scale = 1:11.0

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

DRY: SEASONED LUMBER.

#### PLATES (table is in inches)

| JT | TYPE   | PLATES | W   | LEN | Y    | X    |
|----|--------|--------|-----|-----|------|------|
| B  | TMB1-1 | MT20   | 3.0 | 4.0 |      |      |
| C  | TT-2   | MT20   | 3.0 | 4.0 | Edge | 2.00 |
| D  | TMB1-1 | 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

| FACTORED GROSS REACTION |      | MAXIMUM FACTORED GROSS REACTION |      | INPUT BRG |        | REQD BRG |       |
|-------------------------|------|---------------------------------|------|-----------|--------|----------|-------|
| JT                      | VERT | HORZ                            | DOWN | HORZ      | UPLIFT | IN-SX    | IN-SX |
| B                       | 300  | 0                               | 300  | 0         | 0      | 4-0-6    | 4-0-6 |
| D                       | 300  | 0                               | 300  | 0         | 0      | 4-0-6    | 4-0-6 |

#### UNFACTORED REACTIONS

| 1ST CASE |          | MAX/MIN COMPONENT REACTIONS |      |            |      |      |      |
|----------|----------|-----------------------------|------|------------|------|------|------|
| JT       | COMBINED | SNOW                        | LIVE | PERM. LIVE | WIND | DEAD | SOIL |
| B        | 210      | 148.0                       | 0.0  | 0.0        | 0.0  | 64.0 | 0.0  |
| D        | 210      | 148.0                       | 0.0  | 0.0        | 0.0  | 64.0 | 0.0  |

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

#### BRACING

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

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

#### LOADING

TOTAL LOAD CASES: (4)

| CHORDS |                           | FACTORED         |                              | WEBS  |                           |
|--------|---------------------------|------------------|------------------------------|-------|---------------------------|
| MEMB.  | MAX. FACTORED FORCE (LBS) | VERT. LOAD (LBS) | MAX. FACTORED (PLF) CSI (LC) | MEMB. | MAX. FACTORED FORCE (LBS) |
| FR-TO  |                           |                  |                              | FR-TO |                           |
| A-B    | 0.16                      | -91.8            | -91.8 0.05 (1)               | F-G   | 0.54                      |
| B-G    | -252.0                    | -91.8            | -91.8 0.04 (4)               | H-I   | 0.54                      |
| G-C    | -198.0                    | -91.8            | -91.8 0.08 (1)               |       |                           |
| C-I    | -198.0                    | -91.8            | -91.8 0.08 (1)               |       |                           |
| I-D    | -252.0                    | -91.8            | -91.8 0.04 (4)               |       |                           |
| D-E    | 0.16                      | -91.8            | -91.8 0.05 (1)               |       |                           |
| B-F    | 0.185                     | -18.5            | -18.5 0.04 (1)               |       |                           |
| F-H    | 0.185                     | -18.5            | -18.5 0.07 (1)               |       |                           |
| H-D    | 0.185                     | -18.5            | -18.5 0.04 (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, ABC 2019
- PART 9 OF CBC 2012 (2019 AMENDMENT)
- CSA 086-14
- TPIC 2014

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

CSI: TC=0.06/1.00 (C-I), BC=0.07/1.00 (F-H), WB=0.00/1.00 (F-G:1), SSI=0.08/1.00 (C-I)

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.

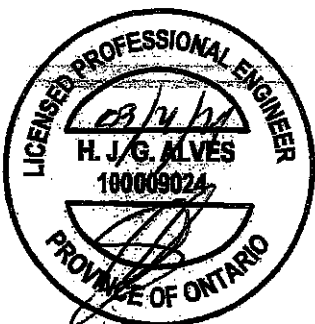
#### NAIL VALUES

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

PLATE PLACEMENT TOL = 0.250 inches

PLATE ROTATION TOL = 5.0 Deg.

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

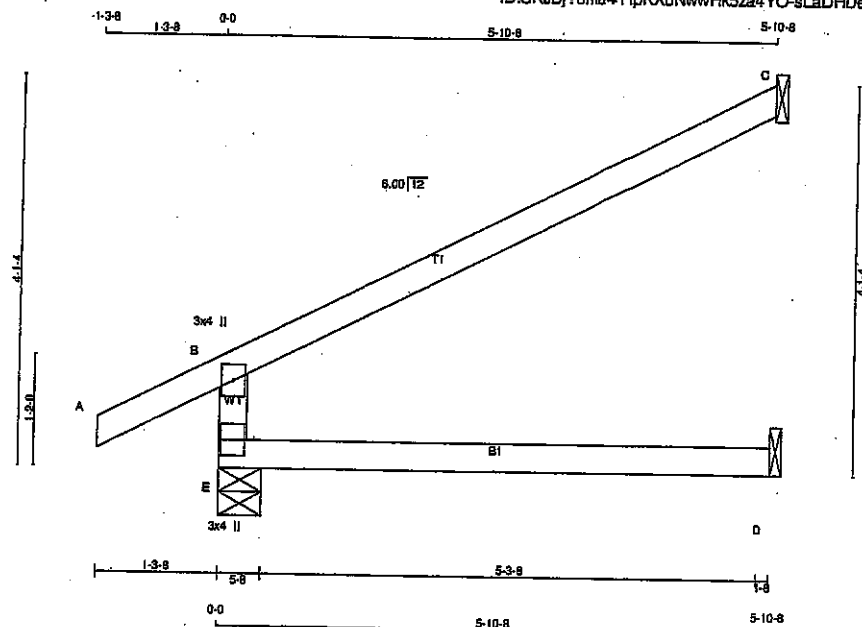


Structural component only  
DRAWN: T.2108046

|                           |                         |                       |                 |                                     |             |          |
|---------------------------|-------------------------|-----------------------|-----------------|-------------------------------------|-------------|----------|
| JOB NAME<br><b>417375</b> | TRUSS NAME<br><b>J1</b> | QUANTITY<br><b>23</b> | PLY<br><b>1</b> | JOB DESC.<br><b>GREENPARK HOMES</b> | TRUSS DESC. | DRWG NO. |
|---------------------------|-------------------------|-----------------------|-----------------|-------------------------------------|-------------|----------|

Tamarack Roof Truss, Burlington

Version 8.420 S Jan 21 2021 MITek Industries, Inc. Fri Mar 19 17:25:30 2021 Page 1  
ID:SKJDJ?6mu4YipKXoNwwHk5za4YO-sLaDHDeorDH8N\_5d?WKYqwiTTTofOgtzTszZJep



Scale = 1/2\"/>

TOTAL WEIGHT = 23 X 17 = 391 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

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

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

#### UNFACTORED REACTIONS

| JT | 1ST LOASE COMBINED | MAX./MIN. COMPONENT REACTIONS |       |           |       |         |       |
|----|--------------------|-------------------------------|-------|-----------|-------|---------|-------|
|    |                    | SNOW                          | LIVE  | PERM.LIVE | WIND  | DEAD    | SOIL  |
| E  | 369                | 257 / 0                       | 0 / 0 | 0 / 0     | 0 / 0 | 111 / 0 | 0 / 0 |
| C  | 139                | 113 / 0                       | 0 / 0 | 0 / 0     | 0 / 0 | 28 / 0  | 0 / 0 |
| D  | 36                 | 0 / 0                         | 0 / 0 | 0 / 0     | 0 / 0 | 36 / 0  | 0 / 0 |

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

#### BRACING

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

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

#### LOADING

TOTAL LOAD CASES: (4)

| CHORDS |                           |                           |                           | WEBB                      |       |                           |                           |
|--------|---------------------------|---------------------------|---------------------------|---------------------------|-------|---------------------------|---------------------------|
| MEMB.  | MAX. FACTORED FORCE (LBS) | FACTORED VERT. LOAD (PLF) | MAX. FACTORED FORCE (LBS) | FACTORED VERT. LOAD (PLF) | MEMB. | MAX. FACTORED FORCE (LBS) | FACTORED VERT. LOAD (PLF) |
| FR-TO  |                           | FROM TO                   | CS1 (LC)                  | MAX. UNBRAC LENGTH        | FR-TO |                           | CS1 (LC)                  |
| E-B    | -481 / 0                  | 0.0 0.0                   | 0.13 (4)                  | 7.81                      |       |                           |                           |
| A-B    | 0 / 28                    | -91.8 -91.8               | 0.12 (1)                  | 10.00                     |       |                           |                           |
| B-C    | -30 / 0                   | -91.8 -91.8               | 0.54 (1)                  | 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, NBC 2015

THIS DESIGN COMPLIES WITH:

- PART 9 OF CBC 2015, ABC 2015
- PART 9 OF CBC 2012 (2019 AMENDMENT)
- CSA 086-14
- TPI 2014

##### DESIGN ASSUMPTIONS

- OVERHANG NOT TO BE ALTERED OR CUT OFF.

(55% OF 31.2 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 25.6 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL. (LL) = L/860 (0.20")  
CALCULATED VERT. DEFL. (LL) = L/999 (0.00")  
ALLOWABLE DEFL. (TL) = L/860 (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), SS=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.

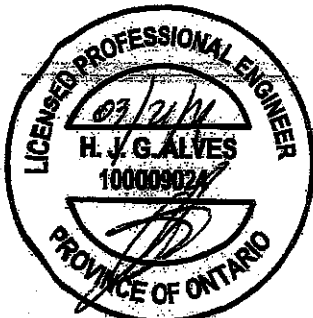
##### NAIL VALUES

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

PLATE PLACEMENT TOL = 0.250 inches

PLATE ROTATION TOL = 5.0 Deg.

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

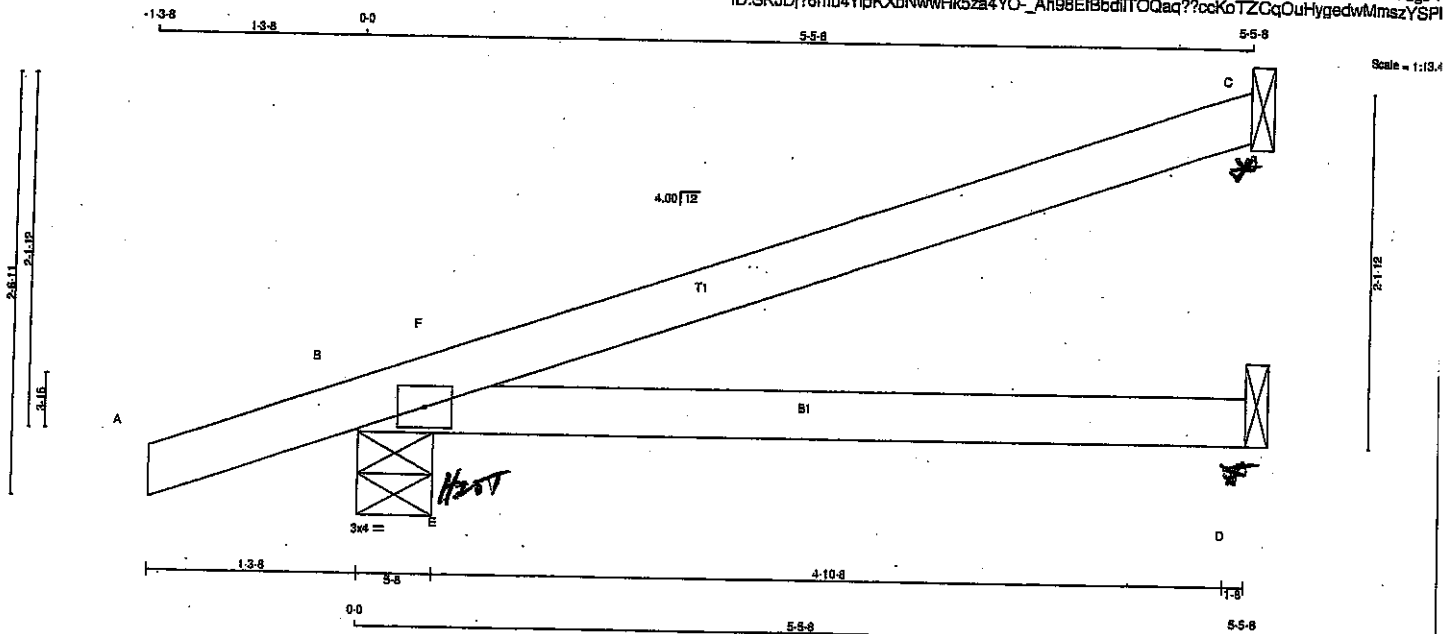


Structural component only  
DWG# T-2108005

|          |            |          |     |             |                 |          |
|----------|------------|----------|-----|-------------|-----------------|----------|
| JOB NAME | TRUSS NAME | QUANTITY | PLY | JOB DESC.   | GREENPARK HOMES | DRWG NO. |
| 417375   | J2         | 5        | 1   | TRUSS DESC. |                 |          |

Tamarack Roof Truss, Burlington

Version 8.420 3 Jan 21 2021 Mitek Industries, Inc. Mon Mar 22 08:16:15 2021 Page 1  
ID:SKJDJ76mu4YipKXoNwwHk5za4YO\_Ah98EfbdiTOQaq??ccKoTZCqOuHygedwMmszYSPI



TOTAL WEIGHT = 5 X 14 = 72 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  | TMB1-1 | 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 | REQ'D BRG |
|----|-------------------------|---------------------------------|-----------|-----------|
| C  | 218                     | 218                             | 1-8       | 1-8       |
| B  | 424                     | 424                             | 5-8       | 5-8       |
| D  | 83                      | 83                              | 1-8       | 1-8       |

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

PROVIDE ANCHORAGE AT BEARING JOINT C FOR 152 LBS. FACTORED UPLIFT

PROVIDE ANCHORAGE AT BEARING JOINT B FOR 271 LBS. FACTORED UPLIFT

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

PROVIDE FOR 137 LBS. FACTORED HORIZONTAL REACTION AT JOINT B

##### UNFACTORED REACTIONS

| JT | 1ST CASE | MAX/MIN. COMPONENT REACTIONS | SNOW  | LIVE  | PERM. LIVE | WIND     | DEAD   | SOIL  |
|----|----------|------------------------------|-------|-------|------------|----------|--------|-------|
| C  | 151      | 118 / 0                      | 0 / 0 | 0 / 0 | 0 / 0      | 0 / -130 | 34 / 0 | 0 / 0 |
| B  | 297      | 208 / 0                      | 0 / 0 | 0 / 0 | 0 / 0      | 0 / -251 | 89 / 0 | 0 / 0 |
| D  | 62       | 22 / 0                       | 0 / 0 | 0 / 0 | 0 / 0      | 0 / -103 | 40 / 0 | 0 / 0 |

##### HORIZONTAL REACTIONS

|   |       |       |       |        |       |       |
|---|-------|-------|-------|--------|-------|-------|
| B | 0 / 0 | 0 / 0 | 0 / 0 | 98 / 0 | 0 / 0 | 0 / 0 |
|---|-------|-------|-------|--------|-------|-------|

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

##### BRACING

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

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

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

##### LOADING

TOTAL LOAD CASES: (12)

| MEMB. | CHORDS MAX. FACTORED FORCE (LBS) | FACTORED VERT. LOAD (PLF) | FACTORED LC1 MAX. (PLF) | MAX. (PLF) | WEBS MAX. FACTORED FORCE (LBS) | MAX. (PLF) |
|-------|----------------------------------|---------------------------|-------------------------|------------|--------------------------------|------------|
| FR-TO |                                  |                           |                         |            |                                |            |
| A-B   | 0 / 18                           | -91.8                     | -91.8                   | 0.11 (1)   | 10.00                          | 10.00      |
| B-E   | -97 / 14                         | -91.8                     | -91.8                   | 0.06 (12)  | 6.25                           | 6.25       |
| F-C   | -56 / 2                          | -91.8                     | -91.8                   | 0.35 (1)   | 6.25                           | 6.25       |
| B-E   | 0 / 0                            | -18.5                     | -18.5                   | 0.25 (1)   | 10.00                          | 10.00      |
| E-D   | 0 / 0                            | -18.5                     | -18.5                   | 0.25 (1)   | 10.00                          | 10.00      |

WIND LOAD APPLIED IS DERIVED FROM REFERENCE VELOCITY PRESSURE OF (9.6) PSF AT (20-0-0) FT-IN-SX REFERENCE HEIGHT ABOVE GRADE AND USING EXTERNAL PEAK COEFFICIENTS,  $C_{pe}$ , BASED ON THE (MAIN WIND FORCE RESISTING SYSTEM) INTERNAL WIND PRESSURE IS BASED ON DESIGN (CATEGORY 2) BUILDING MAY BE LOCATED ON (OPEN TERRAIN), AND TRUSS IS DESIGNED TO BE LOCATED AT LEAST (0-0) FT-IN-SX AWAY FROM EAVE. TRUSS UPLIFT IS BASED ON TOP AND BOTTOM CHORD DEAD LOADS OF 6.0 PSF AND 7.4 PSF RESPECTIVELY.

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

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

ALLOWABLE DEFL.(LL) =  $L/360$  (0.19")  
CALCULATED VERT. DEFL.(LL) =  $L/778$  (0.08")  
ALLOWABLE DEFL.(TL) =  $L/360$  (0.19")  
CALCULATED VERT. DEFL.(TL) =  $L/607$  (0.11")

CSI:  $TC=0.35/1.00$  (C-F:1),  $BC=0.25/1.00$  (D-E:1),  $WB=0.00/1.00$  (E-F:1),  $SS=0.24/1.00$  (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) (PSI) | GRIP (PLI) | SECTION (PLI) |
|------------------------|------------|---------------|
| MAX MIN                | MAX MIN    | MAX MIN       |
| MT20                   | 650 371    | 1747 788      |
|                        |            | 1987 1873     |

PLATE PLACEMENT TOL = 0.250 inches

PLATE ROTATION TOL = 5.0 Deg.

JSI GRIP = 0.28 (B) (INPUT = 0.90)  
JSI METAL = 0.07 (B) (INPUT = 1.00)

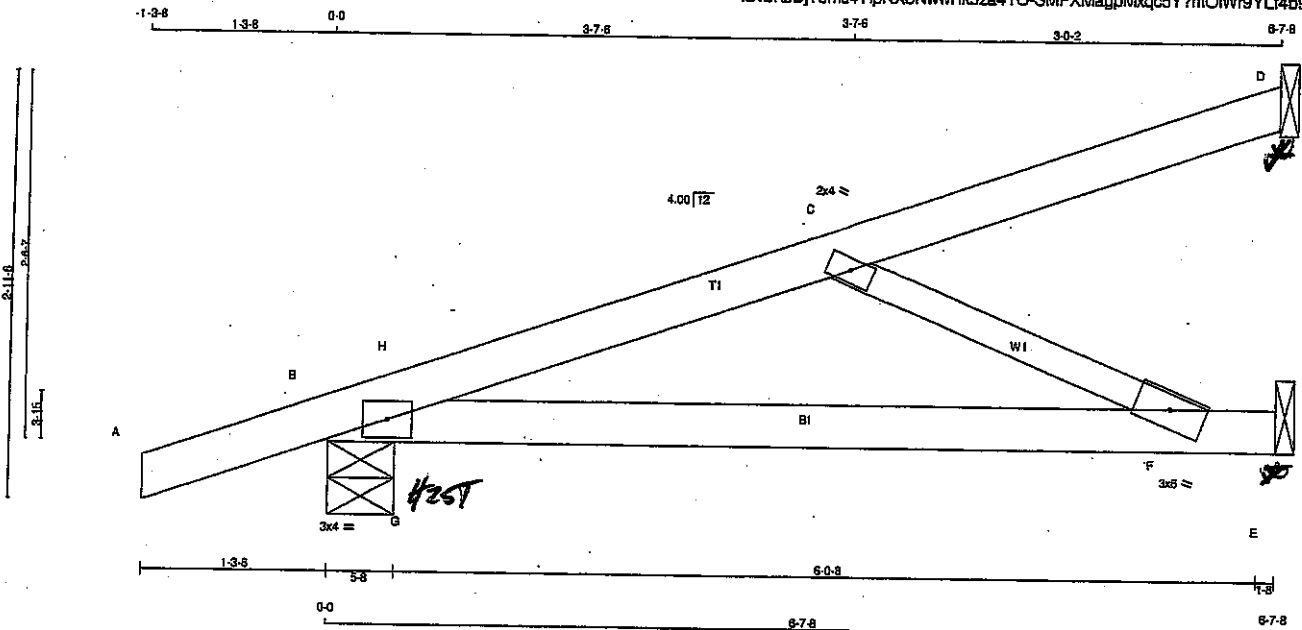


Structural component only  
DIA/C# T 2108002

|          |            |          |     |             |                 |          |
|----------|------------|----------|-----|-------------|-----------------|----------|
| JOB NAME | TRUSS NAME | QUANTITY | PLY | JOB DESC.   | GREENPARK HOMES | DRWG NO. |
| 417375   | J3         | 6        | 1   | TRUSS DESC. |                 |          |

Tamarack Roof Truss, Burlington

Version 8.420 S Jan 21 2021 MITek Industries, Inc. Mon Mar 22 08:16 2021 Page 1  
ID:SKJDJ76mu4YipKXoNwwHkSza4YO-SMFXMaggMxqc5Y?mOiw9YLf4b9YdjfqsHgwJlzYSP



TOTAL WEIGHT = 6 X 19 = 117 lb  
[MIP]

#### LUMBER

N. L. G. A. RULES

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

ALL WEBS 2x3 DRY  
DRY: SEASONED LUMBER

DESCR.

SPF

SPF

#### PLATES (table is in inches)

| JT TYPE | PLATES | W    | LEN | Y   | X |
|---------|--------|------|-----|-----|---|
| B       | TMB1-H | MT20 | 3.0 | 4.0 |   |
| C       | TMW-HW | MT20 | 2.0 | 4.0 |   |
| F       | BMW-HW | MT20 | 3.0 | 6.0 |   |

#### NOTES

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

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

##### BEARINGS

| JT | FACTORED GROSS REACTION |      | MAXIMUM FACTORED GROSS REACTION |      |        | INPUT BRG | REQD BRG |
|----|-------------------------|------|---------------------------------|------|--------|-----------|----------|
|    | VERT                    | HORZ | DOWN                            | HORZ | UPLIFT | IN-SX     | IN-SX    |
| D  | 112                     | 0    | 112                             | 0    | -71    | 1-8       | 1-8      |
| B  | 488                     | 0    | 488                             | 162  | -318   | 5-8       | 5-8      |
| E  | 253                     | 0    | 253                             | 0    | -244   | 1-8       | 1-8      |

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

PROVIDE ANCHORAGE AT BEARING JOINT D FOR 150 LBS. FACTORED UPLIFT  
PROVIDE ANCHORAGE AT BEARING JOINT B FOR 318 LBS. FACTORED UPLIFT  
PROVIDE ANCHORAGE AT BEARING JOINT E FOR 244 LBS. FACTORED UPLIFT

PROVIDE FOR 162 LBS. FACTORED HORIZONTAL REACTION AT JOINT B

##### UNFACTORED REACTIONS

| JT | 1ST LCASE |         | MAX./MIN. COMPONENT REACTIONS |            | WIND     | DEAD    | SOIL  |
|----|-----------|---------|-------------------------------|------------|----------|---------|-------|
|    | COMBINED  | SNOW    | LIVE                          | PERM. LIVE |          |         |       |
| D  | 77        | 63 / 0  | 0 / 0                         | 0 / 0      | 0 / -60  | 14 / 0  | 0 / 0 |
| B  | 343       | 238 / 0 | 0 / 0                         | 0 / 0      | 0 / -295 | 105 / 0 | 0 / 0 |
| E  | 181       | 106 / 0 | 0 / 0                         | 0 / 0      | 0 / -223 | 75 / 0  | 0 / 0 |

##### HORIZONTAL REACTIONS

|   |       |       |       |         |       |       |
|---|-------|-------|-------|---------|-------|-------|
| B | 0 / 0 | 0 / 0 | 0 / 0 | 116 / 0 | 0 / 0 | 0 / 0 |
|---|-------|-------|-------|---------|-------|-------|

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

##### BRACING

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

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

##### LOADING

TOTAL LOAD CASES: (12)

| 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 |                           |                     |  |  |
| A-B    | 0 / 18                    | -91.8                     | -91.8            | 0.11 (1)             | 10.00 | C-F                       | -498 / 384 0.10 (1) |  |  |
| B-H    | -544 / 300                | -91.8                     | -91.8            | 0.24 (5)             | 6.25  | G-H                       | -256 / 148 0.00 (1) |  |  |
| H-C    | -440 / 215                | -91.8                     | -91.8            | 0.23 (5)             | 6.25  |                           |                     |  |  |
| C-D    | -28 / 0                   | -91.8                     | -91.8            | 0.09 (1)             | 6.25  |                           |                     |  |  |
| B-G    | -323 / 439                | -18.5                     | -18.5            | 0.11 (12)            | 8.25  |                           |                     |  |  |
| G-F    | -323 / 439                | -18.5                     | -18.5            | 0.32 (1)             | 8.25  |                           |                     |  |  |
| F-E    | 0 / 0                     | -18.5                     | -18.5            | 0.25 (1)             | 10.00 |                           |                     |  |  |

WIND LOAD APPLIED IS DERIVED FROM REFERENCE VELOCITY PRESSURE OF (9.6) PSF AT (20-0-0) FT-IN-SX REFERENCE HEIGHT ABOVE GRADE AND USING EXTERNAL PEAK COEFFICIENTS,  $C_p C_g$ , BASED ON THE (MAIN WIND FORCE RESISTING SYSTEM). INTERNAL WIND PRESSURE IS BASED ON DESIGN (CATEGORY 2). BUILDING MAY BE LOCATED ON (OPEN TERRAIN), AND TRUSS IS DESIGNED TO BE LOCATED AT LEAST (0-0) FT-IN-SX AWAY FROM EAVE. TRUSS UPLIFT IS BASED ON TOP AND BOTTOM CHORD DEAD LOADS OF 8.0 PSF AND 7.4 PSF RESPECTIVELY.

#### DESIGN CRITERIA

SPECIFIED LOADS:  
TOP CH. LL = 25.8 PSF  
DL = 8.0 PSF  
BOT CH. LL = 0.0 PSF  
DL = 7.4 PSF  
TOTAL LOAD = 38.0 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 NBCC 2015, ABC 2019  
- PART 9 OF OBC 2012 (2019 AMENDMENT)  
- CSA 086-14  
- TPIC 2014

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

ALLOWABLE DEFL.(LL) =  $L/380$  (0.22")  
CALCULATED VERT. DEFL.(LL) =  $L/584$  (0.13")  
ALLOWABLE DEFL.(TL) =  $L/360$  (0.22")  
CALCULATED VERT. DEFL.(TL) =  $L/570$  (0.14")

CSI: TC=0.24/1.00 (B-H-S), BC=0.32/1.00 (F-G-1), WB=0.10/1.00 (C-F-1), SS=0.20/1.00 (E-F-1)

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

COMPANION LIVE LOAD FACTOR = 1.00

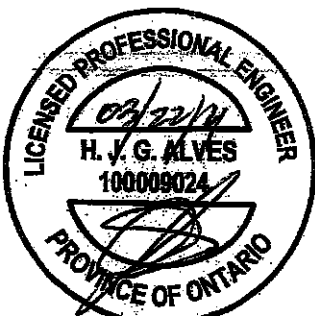
TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP=0.40 (C) (INPUT = 0.90)  
JSI METAL=0.25 (C) (INPUT = 1.00)



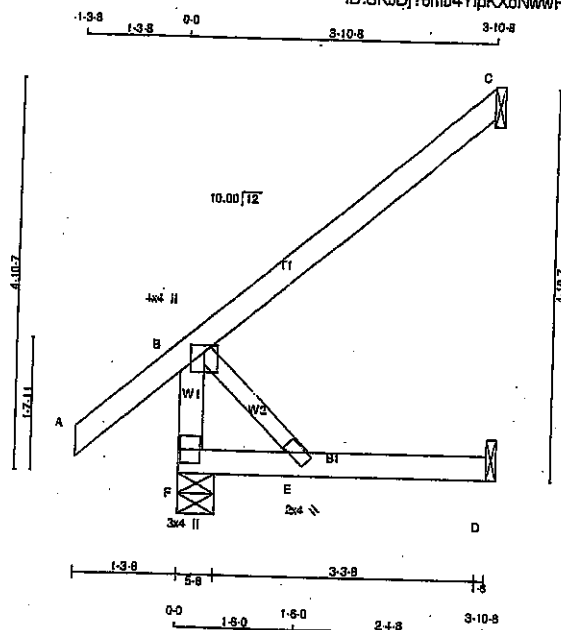
Structural component only

|          |            |          |     |             |                 |          |
|----------|------------|----------|-----|-------------|-----------------|----------|
| JOB NAME | TRUSS NAME | QUANTITY | PLY | JOB DESC.   | GREENPARK HOMES | DRWG NO. |
| 417406   | J15        | 3        | 1   | TRUSS DESC. |                 |          |

Tamarack Roof Truss, Burlington

Version 8.420 S Jan 21 2021 Mitek Industries, Inc. Fri Mar 19 17:34:12 2021 Page 1  
ID:SKJDj76mu4YipKXoNwwHkSza4YO-Zm7Yrly4hE\_DmouQCetkivY1kuxM6quDi4lbnczZJW1

Scale = 1:27.5



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

| PLATES (table is in inches) |        |        |     |     |           |
|-----------------------------|--------|--------|-----|-----|-----------|
| JT                          | TYPE   | PLATES | W   | LEN | Y X       |
| B                           | TMVW+p | MT20   | 4.0 | 4.0 | 1.00 2.00 |
| E                           | 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 |       | REQD |       |
|----------|----------------|----------|-------|------------------|-------|-------|-------|------|-------|
| JT       | GROSS REACTION | DOWN     | HORIZ | DOWN             | HORIZ | BRG   | IN-SX | BRG  | IN-SX |
| F        | 341            | 0        | 0     | 341              | 0     | 5-8   | 5-8   | 5-8  | 5-8   |
| C        | 178            | 0        | 0     | 178              | 0     | 1-8   | 1-8   | 1-8  | 1-8   |
| D        | 36             | 0        | 0     | 40               | 0     | 1-8   | 1-8   | 1-8  | 1-8   |

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

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

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

BRACING  
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 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 |       | MAX. FACTORED |       | FACTORED |          | VERT. LOAD LC1 |       | MAX      |        | MAX.   |       | MEMB. |       | MAX. FACTORED |     | FORCE    |        | MAX    |       |
|--------|-------|---------------|-------|----------|----------|----------------|-------|----------|--------|--------|-------|-------|-------|---------------|-----|----------|--------|--------|-------|
| MEMB.  | FORCE | (LBS)         | (LBS) | FROM     | TO       | FROM           | TO    | CS1 (LC) | UNBRAC | LENGTH | FR-TO | MEMB. | FORCE | (LBS)         | MAX | CS1 (LC) | UNBRAC | LENGTH | FR-TO |
| F-B    | -305  | 0             | 0     | 0        | 0        | 0              | 0     | 0.03 (1) | 7.81   | 8-E    | 0     | 0     | 0     | 0             | 0   | 0        | 0      | 0      | 0     |
| A-B    | 0     | 41            | -91.8 | -91.8    | 0.14 (5) | 10.00          | 10.00 |          |        |        |       |       |       |               |     |          |        |        |       |
| B-C    | 0     | 0             | -91.8 | -91.8    | 0.23 (1) | 10.00          | 10.00 |          |        |        |       |       |       |               |     |          |        |        |       |
| F-E    | 0     | 0             | -18.5 | -18.5    | 0.08 (4) | 10.00          | 10.00 |          |        |        |       |       |       |               |     |          |        |        |       |
| E-D    | 0     | 0             | -18.5 | -18.5    | 0.08 (4) | 10.00          | 10.00 |          |        |        |       |       |       |               |     |          |        |        |       |

CANTILEVER ANALYSIS HAS BEEN CONSIDERED IN THIS DESIGN

TOTAL WEIGHT = 3 X 15 = 46 lb

#### DESIGN CRITERIA

##### SPECIFIED LOADS:

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

SPACING = 24.0 IN. C/C

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

THIS DESIGN COMPLIES WITH:

- PART 9 OF CBC 2015, ABC 2019
- PART 9 OF CBC 2012 (2019 AMENDMENT)
- CSA 086-14
- TPIG 2014

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

ALLOWABLE DEFL. (LL) =  $L/360$  (0.18")  
CALCULATED VERT. DEFL. (LL) =  $L/999$  (0.00")  
ALLOWABLE DEFL. (TL) =  $L/360$  (0.18")  
CALCULATED VERT. DEFL. (TL) =  $L/999$  (0.01")

CS1: TC=0.23/1.00 (B-C:1), BC=0.08/1.00 (D-E:4), WB=0.00/1.00 (B-E:1), SS1=0.11/1.00 (B-C:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE RIGHT HEEL ONLY

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

#### NAIL VALUES

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP = 0.22 (B) (INPUT = 0.90)  
JSI METAL = 0.06 (B) (INPUT = 1.00)



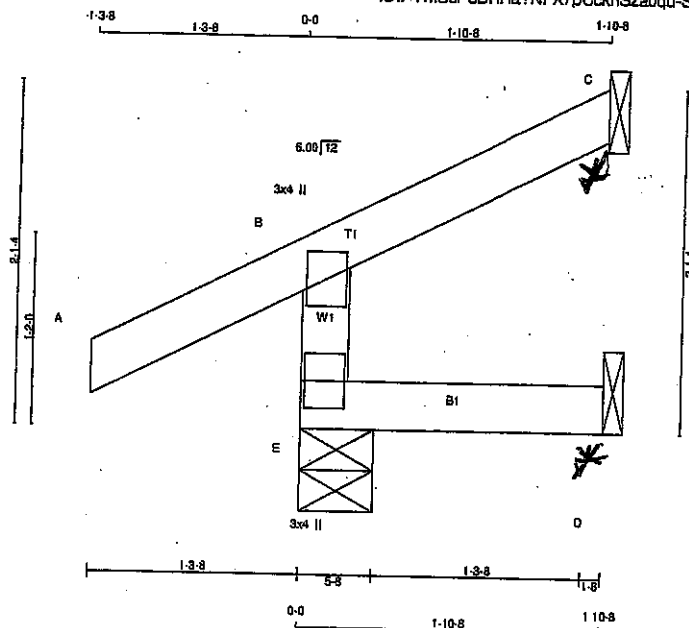
Structural component only  
DWG# T-2108020

|          |            |          |     |             |                 |          |
|----------|------------|----------|-----|-------------|-----------------|----------|
| JOB NAME | TRUSS NAME | QUANTITY | PLY | JOB DESC.   | GREENPARK HOMES | DRWG NO. |
| 417413   | J21        | 4        | 1   | TRUSS DESC. |                 |          |

Tamarack Roof Truss, Burlington

Version 8.420 S Jan 21 2021 Mitek Industries, Inc. Fri Mar 19 17:49:21 2021 Page 1  
ID:PYmSsP9BHha7NFX7pCcknSza0qu-SeYBcXyFcWWEJlt7y2hu2bhP8JBjxw0k?RCBQzZJIS

Scale = 1:13.5



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

DRY: SEASONED LUMBER

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

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

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

| JT | FACTORED GROSS REACTION |      | MAXIMUM FACTORED GROSS REACTION |      | INPUT BRG | REQD BRG |
|----|-------------------------|------|---------------------------------|------|-----------|----------|
|    | VERT                    | HORZ | DOWN                            | HORZ |           |          |
| E  | 273                     | 0    | 273                             | 0    | 5-8       | 5-8      |
| C  | 50                      | 0    | 50                              | 0    | 1-8       | 1-8      |
| D  | 8                       | 0    | 17                              | 0    | 1-8       | 1-8      |

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

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

#### UNFACTORED REACTIONS

| JT | 1ST CASE | MAX. MIN. COMPONENT REACTIONS |      |            |      |      |      |
|----|----------|-------------------------------|------|------------|------|------|------|
|    | COMBINED | SNOW                          | LIVE | PERM. LIVE | WIND | DEAD | SOIL |
| E  | 190      | 143.0                         | 0.0  | 0.0        | 0.0  | 47.0 | 0.0  |
| C  | 35       | 27.17                         | 0.0  | 0.0        | 0.0  | 7.0  | 0.0  |
| D  | 8        | 0.8                           | 0.0  | 0.0        | 0.0  | 12.0 | 0.0  |

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

#### 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. UNBRAC LENGTH | MEMB. FR-TO | MAX. FACTORED FORCE (LBS) | MAX CSI (LC) |
| FR-TO  |                           | FROM TO                   |                  |                    |             |                           |              |
| E-B    | -247.0                    | 0.0                       | 0.0              | 0.04 (5)           | 7.81        |                           |              |
| A-B    | 0.28                      | -91.8                     | -91.8            | 0.12 (1)           | 10.00       |                           |              |
| B-C    | -16.0                     | -91.8                     | -91.8            | 0.09 (1)           | 6.25        |                           |              |
| E-D    | 0.0                       | -18.5                     | -18.5            | 0.04 (5)           | 10.00       |                           |              |

CANTILEVER ANALYSIS HAS BEEN CONSIDERED IN THIS DESIGN

#### DESIGN CRITERIA

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

SPACING = 24.0 IN. C/C

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

THIS DESIGN COMPLIES WITH:  
- PART 9 OF BCBC 2018, ABC 2019  
- PART 9 OF OSC 2012 (2019 AMENDMENT)  
- CSA 085-14  
- 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=0.09/1.00 (A-B:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE RIGHT HEEL ONLY

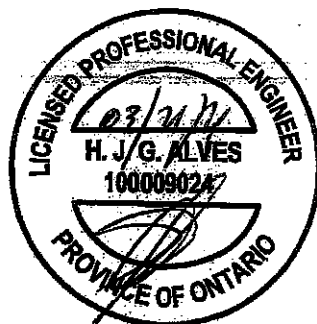
TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

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

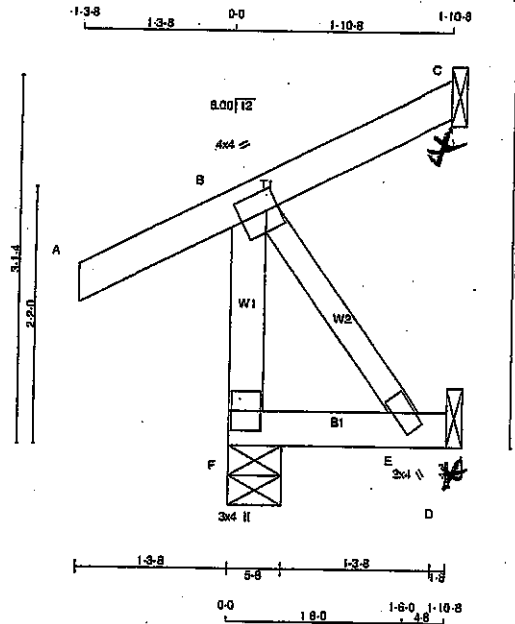


Structural component only  
DIA/C# T 3109044

|                           |                          |                      |                 |                                     |             |          |
|---------------------------|--------------------------|----------------------|-----------------|-------------------------------------|-------------|----------|
| JOB NAME<br><b>417413</b> | TRUSS NAME<br><b>J22</b> | QUANTITY<br><b>3</b> | PLY<br><b>1</b> | JOB DESC.<br><b>GREENPARK HOMES</b> | TRUSS DESC. | DRWG NO. |
|---------------------------|--------------------------|----------------------|-----------------|-------------------------------------|-------------|----------|

Tamarack Roof Truss, Burlington

Version 8.420 S Jan 21 2021 Mitek Industries, Inc. Fri Mar 19 17:48:21 2021 Page 1  
ID:PYmSsP3BHhA?NFX7pCcknSza0qu-SeYBcXyFcWWEJlt7y2hu2bhP8JB?axw0K?RCBQzZ.iis



Scale = 1:18.7

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

| PLATES (table is in inches) |        |        |     |     |           |
|-----------------------------|--------|--------|-----|-----|-----------|
| JT                          | TYPE   | PLATES | W   | LEN | Y X       |
| B                           | TMVW-t | MT20   | 4.0 | 4.0 | 2.00 1.25 |
| 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 |                            |      |                                    |      |        |              |             |
|----------|----------------------------|------|------------------------------------|------|--------|--------------|-------------|
| JT       | FACTORED<br>GROSS REACTION |      | MAXIMUM FACTORED<br>GROSS REACTION |      |        | INPUT<br>BRG | REQD<br>BRG |
|          | VERT                       | HORZ | DOWN                               | HORZ | UPLIFT | IN-SX        | IN-SX       |
| F        | 273                        | 0    | 273                                | 0    | 0      | 5-8          | 5-8         |
| C        | 41                         | 0    | 41                                 | 0    | -35    | 1-8          | 1-8         |
| D        | 17                         | 0    | 19                                 | 0    | 0      | 1-8          | 1-8         |

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

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

#### UNFACTORED REACTIONS

| 1ST LCASE |          | MAX. MIN. COMPONENT REACTIONS |      |           |      |       |      |
|-----------|----------|-------------------------------|------|-----------|------|-------|------|
| JT        | COMBINED | SNOW                          | LIVE | PERM.LIVE | WIND | DEAD  | SOIL |
| F         | 190      | 143 '0                        | 0 '0 | 0 '0      | 0 '0 | 47 '0 | 0 '0 |
| C         | 28       | 23 -25                        | 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

#### BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 6.25 FT.  
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR RIGID CEILING DIRECTLY APPLIED.  
ALL PITCH BREAKS AND PERIMETER CORNER JOINTS MUST BE Laterally RESTRAINED.

#### LOADING

TOTAL LOAD CASES: (5)

| CHORDS |                  |  | FACTORED         |       |               |                      | WEBS  |                  |               |
|--------|------------------|--|------------------|-------|---------------|----------------------|-------|------------------|---------------|
| MEMB.  | MAX. FORCE (LBS) |  | VERT. LOAD (PLF) | LC1   | MAX. CS1 (LC) | MAX. UNBRACED LENGTH | MEMB. | MAX. FORCE (LBS) | MAX. CS1 (LC) |
| FR-TO  |                  |  | FROM             | TO    |               |                      | FR-TO |                  |               |
| F-B    | -256 / 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    | -20 / 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 | 0.01 (4)      | 10.00                |       |                  |               |

CANTILEVER ANALYSIS HAS BEEN CONSIDERED IN THIS DESIGN

TOTAL WEIGHT = 3 X 10 = 30 lb

#### DESIGN CRITERIA

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

SPACING = 24.0 IN C/C

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

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

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

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

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

CSI: TC=0.12/1.00 (A-B:1), BC=0.02/1.00 (E-F:4), WB=0.00/1.00 (B-E:1), SS=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

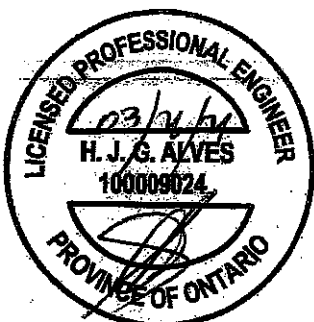
TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

NAIL VALUES  
PLATE GRIP(DRY) SHEAR SECTION (PSI) (PLI) (PLI)  
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 (B) (INPUT = 0.90)  
JSI METAL= 0.04 (B) (INPUT = 1.00)



Structural component only  
DRAWN BY: 04/03/2015

|                    |                   |               |          |                              |          |
|--------------------|-------------------|---------------|----------|------------------------------|----------|
| JOB NAME<br>417406 | TRUSS NAME<br>C15 | QUANTITY<br>1 | PLY<br>1 | JOB DESC.<br>GREENPARK HOMES | DRWG NO. |
|--------------------|-------------------|---------------|----------|------------------------------|----------|

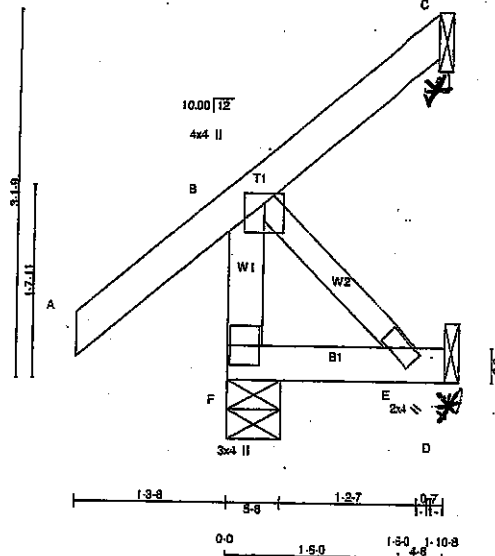
Tamarack Roof Truss, Burlington

ID:OJhBa5EiWZ\_WLuqKF1E0za3DB-5aZAdNxFwM8SJDfWMAI?ugUc5NNe4UQ?2FAzZJWg

Version 8.420 S Jan 21 2021 MITek Industries, Inc. Fri Mar 19 17:34:11 2021 Page 1

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

Scale = 1:18.8



#### LUMBER

N. L. G. A. RULES

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

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

DESCR.

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

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

| JT | FACTORED GROSS REACTION |      | MAXIMUM FACTORED GROSS REACTION |      | INPUT BRG IN-SX | REQD BRG IN-SX |
|----|-------------------------|------|---------------------------------|------|-----------------|----------------|
|    | VERT                    | HORZ | DOWN                            | HORZ |                 |                |
| F  | 276                     | 0    | 276                             | 0    | 5-8             | 5-8            |
| C  | 33                      | 0    | 33                              | 0    | 1-8             | 1-8            |
| D  | 17                      | 0    | 19                              | 0    | 1-8             | 1-8            |

SEE MITEK STANDARD DETAIL B9791H FOR CONNECTION TO JOINT(S) C, D

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

#### UNFACTORED REACTIONS

| JT | COMBINED | MAX. MIN. COMPONENT REACTIONS |      |      |            |      |      |
|----|----------|-------------------------------|------|------|------------|------|------|
|    |          | 1ST CASE                      | SNOW | LIVE | PERM. LIVE | WIND | DEAD |
| F  | 192      | 144                           | 0    | 0    | 0          | 48   | 0    |
| C  | 23       | 18                            | 27   | 0    | 0          | 4    | 0    |
| D  | 14       | 0                             | 0    | 0    | 0          | 14   | 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)

| MEMB. | CHORDS           |                  | FACTORED         |                           | MEMB. | WEBS             |                           |
|-------|------------------|------------------|------------------|---------------------------|-------|------------------|---------------------------|
|       | MAX. FORCE (LBS) | VERT. LOAD (PLF) | VERT. LOAD (LC1) | MAX. UNBRACED LENGTH (LC) |       | MAX. FORCE (LBS) | MAX. UNBRACED LENGTH (LC) |
| FR-TO |                  |                  |                  |                           | FR-TO |                  |                           |
| F-B   | -258             | 0                | 0                | 0.03 (1)                  | 7.81  | 0                | 0.00 (1)                  |
| A-B   | 0                | 41               | -91.8            | 0.13 (1)                  | 10.00 |                  |                           |
| B-C   | -32              | 0                | -91.8            | 0.12 (1)                  | 6.25  |                  |                           |
| F-E   | 0                | 0                | -18.5            | 0.02 (4)                  | 10.00 |                  |                           |
| E-D   | 0                | 0                | -18.5            | 0.01 (4)                  | 10.00 |                  |                           |

CANTILEVER ANALYSIS HAS BEEN CONSIDERED IN THIS DESIGN

TOTAL WEIGHT = 10 lb

#### DESIGN CRITERIA

SPECIFIED LOADS:

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

SPACING = 24.0 IN./C

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

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

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: TO=0.13/1.00 (A-B:1), BC=0.02/1.00 (E-F:4), WB=0.00/1.00 (B-E: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

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) | (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 = 0.19 (B) (INPUT = 0.90)  
JSI METAL = 0.05 (B) (INPUT = 1.00)



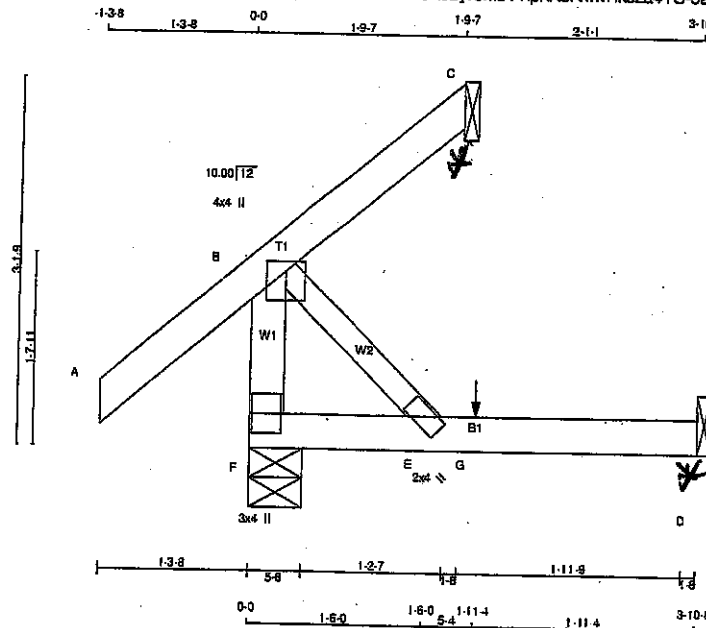
Structural component only  
DWG# T-2108027

| JOB NAME | TRUSS NAME | QUANTITY | PLY | JOB DESC.       | TRUSS DESC. | DRWG NO. |
|----------|------------|----------|-----|-----------------|-------------|----------|
| 417406   | C16        | 1        | 1   | GREENPARK HOMES |             |          |

Tamarack Roof Truss, Burlington

Version 8.420 S Jan 21 2021 MTEK Industries, Inc. Fri Mar 19 17:34:11 2021 Page 1  
ID:SKJDJ76mu4YipKXoNwwHk5za4YO-5aZAdNxRwwsM8SJdWmVAI7IPUj7NNe4UQ72FAZZJWg

Scale = 1:18.8



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

| PLATES (table is in inches) |        |        |     |     |           |
|-----------------------------|--------|--------|-----|-----|-----------|
| JT                          | TYPE   | PLATES | W   | LEN | X         |
| B                           | TMVW+p | MT20   | 4.0 | 4.0 | 1.00 2.00 |
| 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 IN-SX | REQD BRG IN-SX |
|----|-------------------------|------|---------------------------------|------|-----------------|----------------|
|    | VERT                    | HORZ | DOWN                            | HORZ |                 |                |
| F  | 294                     | 0    | 294                             | 0    | 5-8             | 5-8            |
| C  | 33                      | 0    | 33                              | 0    | 1-8             | 1-8            |
| D  | 36                      | 0    | 40                              | 0    | 1-8             | 1-8            |

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

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

#### UNFACTORED REACTIONS

| 1ST LCASE |     | MAX./MIN. COMPONENT REACTIONS |      |           |      |      |      |
|-----------|-----|-------------------------------|------|-----------|------|------|------|
| COMBINED  |     | SNOW                          | LIVE | PERM.LIVE | WIND | DEAD | SOIL |
| D C T J   | 207 | 144.0                         | 0.0  | 0.0       | 0.0  | 62.0 | 0.0  |
|           | 23  | 18.27                         | 0.0  | 0.0       | 0.0  | 4.0  | 0.0  |
|           | 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 = 8.25 FT.  
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR RIGID CEILING DIRECTLY APPLIED.  
ALL PITCH BREAKS AND PERIMETER CORNER JOINTS MUST BE Laterally RESTRAINED.

#### LOADING

TOTAL LOAD CASES: (5)

| CHORDS        |        |            |          |          | WEBS          |       |               |          |  |
|---------------|--------|------------|----------|----------|---------------|-------|---------------|----------|--|
| MAX. FACTORED |        | FACTORED   |          |          | MAX. FACTORED |       | MAX. FACTORED |          |  |
| MEMB.         | FORCE  | VERT. LOAD | LC1      | MAX.     | MAX.          | MEMB. | FORCE         | MAX.     |  |
|               | (LBS)  | (PLF)      | CSI (LC) | UNIBRAC  | LENGTH        |       | (LBS)         | CSI (LC) |  |
| FR-TO         |        | FROM       | TO       |          |               | FR-TO |               |          |  |
| F-B           | -258.0 | 0.0        | 0.0      | 0.03 (1) | 7.81          |       |               |          |  |
| A-B           | 0.41   | -91.8      | -91.8    | 0.14 (5) | 10.00         | B-E   | 0.0           | 0.00 (1) |  |
| B-C           | -32.0  | -91.8      | -91.8    | 0.14 (5) | 6.25          |       |               |          |  |
| F-E           | 0.0    | -18.5      | -18.5    | 0.08 (4) | 10.00         |       |               |          |  |
| E-G           | 0.0    | -18.5      | -18.5    | 0.08 (4) | 10.00         |       |               |          |  |
| G-D           | 0.0    | -18.5      | -18.5    | 0.08 (4) | 10.00         |       |               |          |  |

#### SPECIFIED CONCENTRATED LOADS (LBS)

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

SPACING = 24.0 IN. C/C

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

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

#### DESIGN ASSUMPTIONS

- OVERHANG NOT TO BE ALTERED OR CUT OFF.

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

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

CSI: TC=0.14/1.00 (A-B:5), BC=0.08/1.00 (D-E:4), WB=0.00/1.00 (B-E:1), SS=0.08/1.00 (A-B:5)

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

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE RIGHT HEEL ONLY

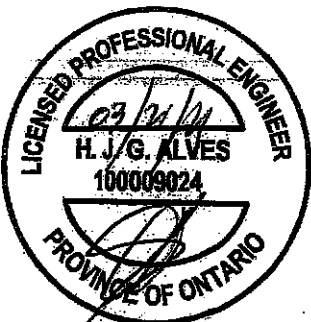
TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP = 0.19 (B) (INPUT = 0.90)  
JSI METAL = 0.05 (B) (INPUT = 1.00)



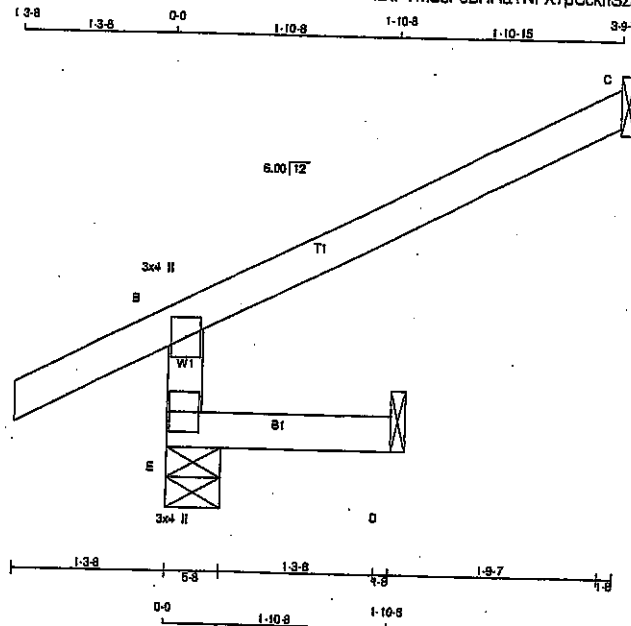
Structural component only  
DIA/G# T 2108022



|                           |                          |                      |                 |                                     |             |          |
|---------------------------|--------------------------|----------------------|-----------------|-------------------------------------|-------------|----------|
| JOB NAME<br><b>417413</b> | TRUSS NAME<br><b>C22</b> | QUANTITY<br><b>4</b> | PLY<br><b>1</b> | JOB DESC.<br><b>GREENPARK HOMES</b> | TRUSS DESC. | DRWG NO. |
|---------------------------|--------------------------|----------------------|-----------------|-------------------------------------|-------------|----------|

Tamarack Roof Truss, Burlington

Version 8.420 S Jan 21 2021 Mitek Industries, Inc. Fri Mar 19 17:48:17 2021 Page 1  
ID:PYmSsP3BH-Ha?NFX7pCcknSza0qu-akJgnAvfY10pqhaLjCcyulWhWhq777wRpNT\_2fzZJWV



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

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

DRY: SEASONED LUMBER.

PLATES (table is in inches)

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

NOTES: (1)

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

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

| JT | FACTORED GROSS REACTION |      | MAXIMUM FACTORED GROSS REACTION |      | INPUT BRG IN-SX | REQD BRG IN-SX |
|----|-------------------------|------|---------------------------------|------|-----------------|----------------|
|    | VERT                    | HORZ | DOWN                            | HORZ |                 |                |
| E  | 381                     | 0    | 381                             | 0    | 5-8             | 5-8            |
| C  | 130                     | 0    | 130                             | 0    | 1-8             | 1-8            |
| D  | 16                      | 0    | 17                              | 0    | 1-8             | 1-8            |

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

#### UNFACTORED REACTIONS

| JT | 1ST LOASE COMBINED | MAX./MIN. COMPONENT REACTIONS |      |          |      |      |      |
|----|--------------------|-------------------------------|------|----------|------|------|------|
|    |                    | SNOW                          | LIVE | PERMLIVE | WIND | DEAD | SOIL |
| D  | 250                | 190.0                         | 0.0  | 0.0      | 0.0  | 60.0 | 0.0  |
|    | 90                 | 73.0                          | 0.0  | 0.0      | 0.0  | 17.0 | 0.0  |
|    | 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                    |                  | FACTORED         |               | WEBS                       |                           |
|-------|---------------------------|------------------|------------------|---------------|----------------------------|---------------------------|
|       | MAX. FACTORED FORCE (LBS) | VERT. LOAD (PLF) | VERT. LOAD (PLF) | MAX. CS1 (LC) | MAX. UNBRACED LENGTH FR-TO | MAX. FACTORED FORCE (LBS) |
| FR-TO |                           |                  |                  |               |                            |                           |
| E-B   | -342.0                    | 0.0              | 0.0              | 0.01 (4)      | 7.81                       |                           |
| A-B   | 0.28                      | -91.8            | -91.8            | 0.13 (5)      | 10.00                      |                           |
| B-C   | -19.0                     | -91.8            | -91.8            | 0.22 (1)      | 6.25                       |                           |
| E-D   | 0.0                       | -18.5            | -18.5            | 0.02 (4)      | 10.00                      |                           |

CANTILEVER ANALYSIS HAS BEEN CONSIDERED IN THIS DESIGN

TOTAL WEIGHT = 4 X 10 = 38 lb

#### DESIGN CRITERIA

##### SPECIFIED LOADS:

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

SPACING = 24.0 IN. C/C

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

THIS DESIGN COMPLIES WITH:

- PART 9 OF BCBC 2015, ABC 2019
- PART 9 OF OBC 2012 (2019 AMENDMENT)
- CSA 086-14
- TPIC 2014

##### DESIGN ASSUMPTIONS

- OVERHANG NOT TO BE ALTERED OR CUT OFF.

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

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

CS1: TC=0.22/1.00 (B-C:1), BC=0.02/1.00 (D-E:4), WB=0.00/1.00 (n/a:0), SS1=0.15/1.00 (B-C:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE RIGHT HEEL ONLY

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

##### NAIL VALUES

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

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



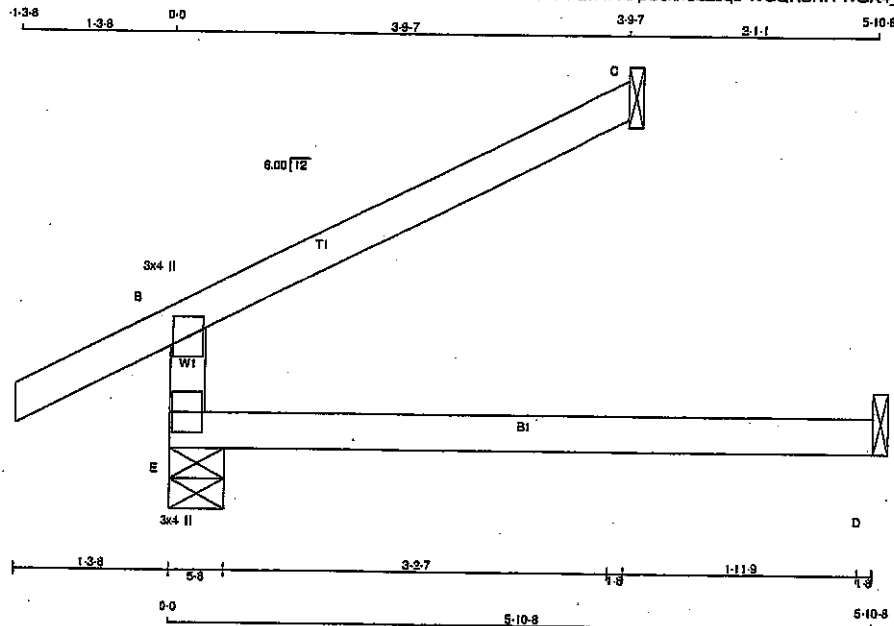
Structural component only



| JOB NAME | TRUSS NAME | QUANTITY | PLY | JOB DESC.   | GREENPARK HOMES | DRWG NO. |
|----------|------------|----------|-----|-------------|-----------------|----------|
| 417413   | C24        | 4        | 1   | TRUSS DESC. |                 |          |

Tamarack Roof Truss, Burlington

Version 8.420 S Jan 21 2021 Mitek Industries, Inc. Fri Mar 19 17:49:19 2021 Page 1  
ID:PYmSsP3BHHe?NFX7pCcknSza0qu-WGQRcWv74vGX4\_kdrdeQzAc10Vto61QkGhy57XZZJLU



Scale = 1:16.2

TOTAL WEIGHT = 4 X 14 = 57 lb

#### LUMBER

N. L. G. A. RULES

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

DRY: SEASONED LUMBER.

#### PLATES (table is in inches)

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

#### 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 | REQD BRG |
|----|-------------------------|------|---------------------------------|------|-----------|----------|
|    | VERT                    | HORZ | DOWN                            | HORZ |           |          |
| E  | 405                     | 0    | 405                             | 0    | 5-8       | 5-8      |
| C  | 130                     | 0    | 130                             | 0    | 1-8       | 1-8      |
| D  | 45                      | 0    | 50                              | 0    | 1-8       | 1-8      |

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

##### UNFACTORED REACTIONS

| JT | 1ST LOASE | MAX. MIN. COMPONENT REACTIONS |      |      |            |      |      |
|----|-----------|-------------------------------|------|------|------------|------|------|
|    |           | COMBINED                      | SNOW | LIVE | PERM. LIVE | WIND | DEAD |
| E  | 286       | 180                           | 0    | 0    | 0          | 96   | 0    |
| C  | 90        | 73                            | 0    | 0    | 0          | 17   | 0    |
| D  | 36        | 0                             | 0    | 0    | 0          | 36   | 0    |

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

##### BRACING

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

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

##### LOADING

TOTAL LOAD CASES: (4)

| MEMB. | CHORDS                    |                           | WEBS                  |                      |                           |                               |
|-------|---------------------------|---------------------------|-----------------------|----------------------|---------------------------|-------------------------------|
|       | MAX. FACTORED FORCE (LBS) | FACTORED VERT. LOAD (PLF) | MAX. VERT. LOAD (LC1) | MAX. HORZ. LOAD (LC) | MAX. FACTORED FORCE (LBS) | MAX. FACTORED VERT. LOAD (LC) |
| FR-TO |                           | FROM 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, ABC 2019
- PART 9 OF OSC 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 (0.00")

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), SS=0.15/1.00 (B-C:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE RIGHT HEEL ONLY

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

##### MAIL VALUES

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

PLATE PLACEMENT TOL = 0.250 inches

PLATE ROTATION TOL = 5.0 Deg.

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



Structural component only



## Alves Engineering Services Inc.

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

### RESPONSABILITIES

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

### SPECIFICATIONS

- 1-Truss components sealed by Alves Engineering Services Inc. conform to the relevant sections of the current Building Code of Ontario and Canada (part 4 or part 9) or the current Canadian code for Farm Buildings in accordance with the application specified on the sealed truss component drawing. All truss component design procedures must conform to the current design standard issued by the truss plate institute of Canada (TPIC). All lumber and nailing stresses to conform to the current CSA wood design standard identified on the current Building Code and TPIC.
- 2- Lumber is to be the sizes and grade specified on the truss drawing.
- 3- Moist content of lumber is not to exceed 19% in service unless otherwise specified.
- 4- Plates shall be applied to both faces of the each truss joint and shall be positioned as shown on the truss drawings
- 5- Lumber used on manufacture of trusses is not to be treated with chemicals unless otherwise specified on the truss drawings.
- 6- The top chord is assumed to be continuously laterally braced by the roof sheathing or purlins at intervals specified on the truss drawing but not exceeding 24" c/c for (part 9) and not exceeding 48" for (part 4 or farm design)
- 7- When rigid ceiling is not attached directly to the bottom chord, lateral bracing is required and it should not exceed more than 3m or 10' intervals.
- 8-Refer to Mitek sheet MII7473C REV.10-08 attached for information on symbols, numbering system and General Safety notes.

T-1300218

Feb 09, 2018

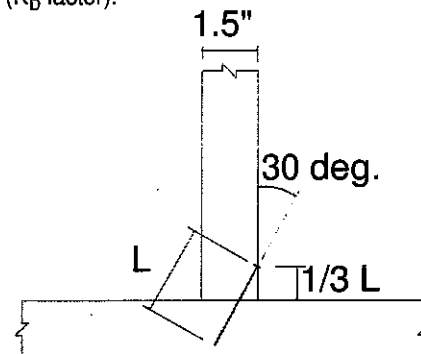
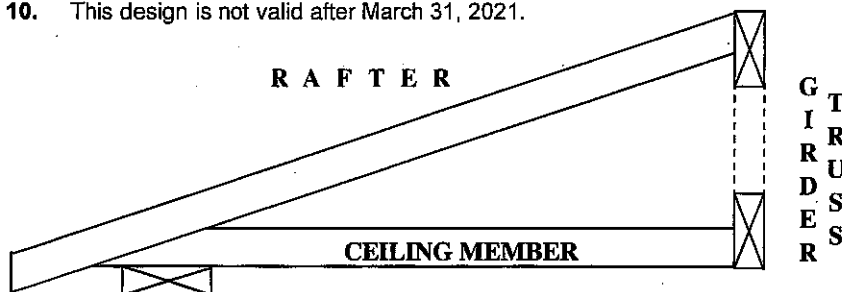
# BEARING ANCHORAGE BY TOE-NAILS FOR LATERAL CAPACITY

B97791H1

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

## NOTES:

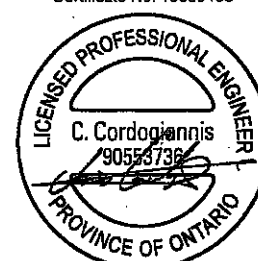
1. Rafter and ceiling members may be anchored to top and bottom chords of girder truss by toe-nailing rafter and ceiling members to girder chords provided the reaction does not exceed the lateral capacities in the table. Hangers (specified by others) are required for reactions higher than the maximum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



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

TOE-NAIL INSTALLATION

PEO  
Certificate No. 10889485



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

December 2, 2019

# BEARING ANCHORAGE BY TOE-NAILS FOR WIND LOADING

B97791H2

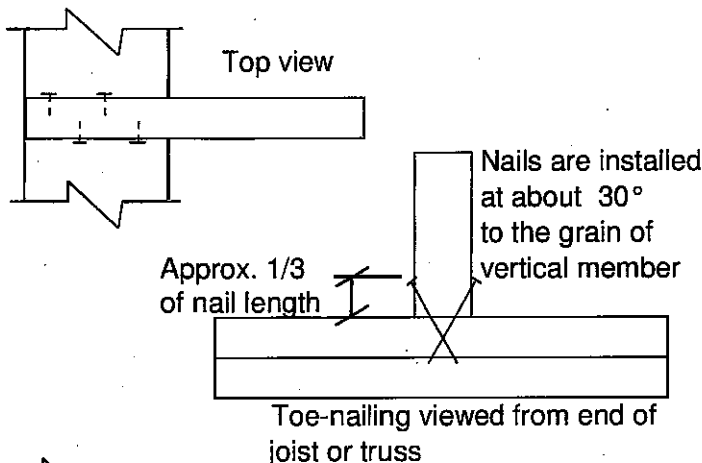
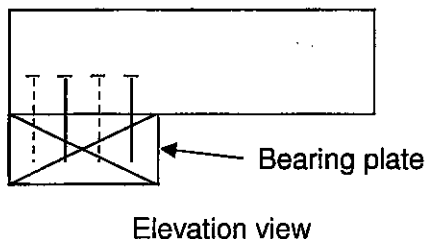
| NAIL TYPE        | LENGTH<br>(IN) | DIAMETER<br>(IN) | NAIL WITHDRAWAL CAPACITY (LB) |        |
|------------------|----------------|------------------|-------------------------------|--------|
|                  |                |                  | S-P-F                         | D. FIR |
| COMMON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

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

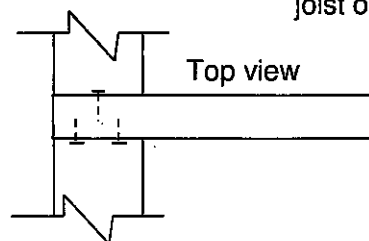
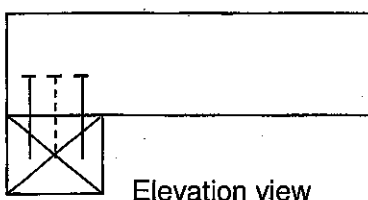
## NOTES:

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

## Toe-nailing on 2x6 Bearing Plate



## Toe-nailing on 2x4 Bearing Plate



PEQ  
Certificate No. 10889485



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

December 2, 2019

# HUS/LJS – Double Shear Joist Hangers

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

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

**Material:** See table

**Finish:** G90 galvanized

**Design:**

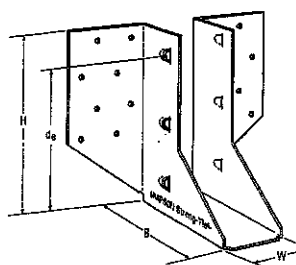
- Factored resistances are in accordance with CSA O86-14.
- Uplift resistances have been increased 15%. No further increase is permitted.
- Wood shear is not considered in the factored resistances given. The specifier must ensure that the joist and header capacities are capable of withstanding these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

**Installation:**

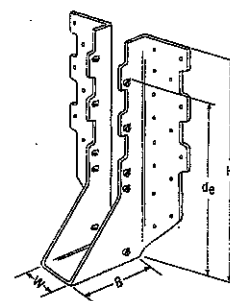
- Use all specified fasteners
- Nails: 16d = 0.162" dia. x 3 1/2" long common wire
- Double shear nails must be driven at an angle through the joist or truss into the header to achieve the table loads
- Not designed for welded or nailer applications

**Options:**

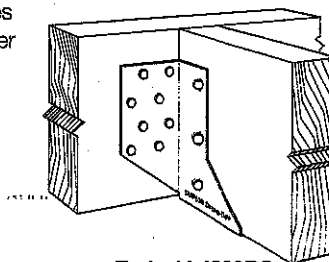
- See current catalogue for options



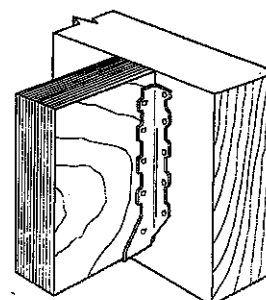
LJS26DS



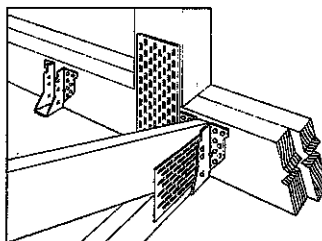
HUS210  
(HUS26, HUS28, similar)



Typical LJS26DS  
Installation



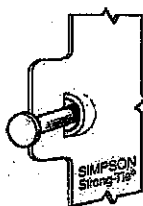
Typical HUS  
Installation



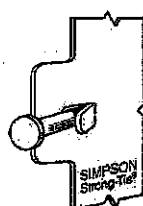
Typical HUS Installation  
(Truss Designer to provide fastener  
quantity for connecting multiple  
members together)

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

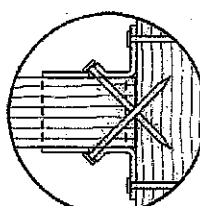
1. d<sub>g</sub> is the distance from the seat of the hanger to the highest joist nail.



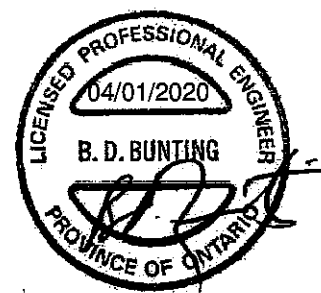
Dome Double  
Shear Nailing  
prevents tabs  
breaking off  
(available on  
some models).  
U.S. Patent  
5,603,580



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



Double  
Shear  
Nailing  
Top View.



UNITED 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.

© 2020 Simpson Strong-Tie Company Inc.

T-SPECHUS20 3/20 exp. 6/22

(800) 999-5099  
strongtie.com

# LUS – Double Shear Joist Hangers

**SIMPSON**

**Strong-Tie**

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

**Material:** 18 gauge

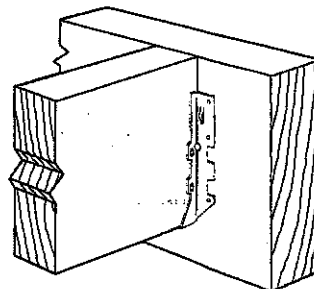
**Finish:** G90 galvanized

**Design:**

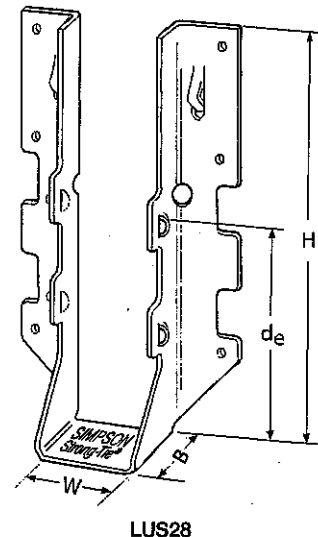
- Factored resistances are in accordance with CSA O86-14.
- Uplift resistances have been increased 15%. No further increase is permitted.
- Wood shear is not considered in the factored resistances given. The specifier must ensure that the joist and header capacities are capable of withstanding these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

**Installation:**

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



Typical LUS Installation



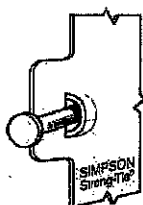
LUS28

**Options:**

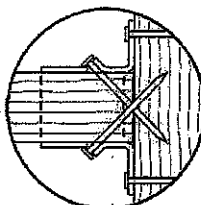
- These hangers cannot be modified

| 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>0</sub> =1.15) | Normal<br>(K <sub>0</sub> =1.00) | Uplift<br>(K <sub>0</sub> =1.15) | Normal<br>(K <sub>0</sub> =1.00) |
| LUS24     | 18  | 1½               | 3½      | 1¾ | 1 15/16                     | (4) 10d   | (2) 10d | 710                              | 1630                             | 645                              | 1155                             |
| LUS24-2   | 18  | 3½               | 3½      | 2  | 1 13/16                     | (4) 16d   | (2) 16d | 835                              | 2020                             | 590                              | 1435                             |
| LUS26     | 18  | 1½               | 4¾      | 1¾ | 3½                          | (4) 10d   | (4) 10d | 1420                             | 2170                             | 1290                             | 1630                             |
| LUS26-2   | 18  | 3½               | 4¾      | 2  | 4                           | (4) 16d   | (4) 16d | 1720                             | 2595                             | 1545                             | 1920                             |
| LUS26-3   | 18  | 4¾               | 4¾      | 2  | 3¼                          | (4) 16d   | (4) 16d | 1720                             | 2595                             | 1545                             | 2340                             |
| LUS28     | 18  | 1½               | 6¾      | 1¾ | 3¾                          | (6) 10d   | (6) 10d | 1420                             | 2520                             | 1290                             | 1790                             |
| LUS28-2   | 18  | 3½               | 7       | 2  | 4                           | (6) 16d   | (4) 16d | 1720                             | 3325                             | 1545                             | 2575                             |
| LUS28-3   | 18  | 4¾               | 6¼      | 2  | 3¼                          | (6) 16d   | (4) 16d | 1720                             | 3325                             | 1545                             | 2375                             |
| LUS210    | 18  | 1½               | 7 13/16 | 1¾ | 3¾                          | (8) 10d   | (4) 10d | 1420                             | 2785                             | 1290                             | 2210                             |
| LUS210-2  | 18  | 3½               | 9       | 2  | 6                           | (8) 16d   | (6) 16d | 2580                             | 4500                             | 2320                             | 3195                             |
| LUS210-3  | 18  | 4¾               | 8 3/16  | 2  | 5¼                          | (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.

© 2020 Simpson Strong-Tie Company Inc.

T-SPECLUS20 3/20 exp. 6/22

(800) 999-5099  
strongtie.com

# HGUS – Double Shear Joist Hangers

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

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

**Material:** 12 gauge

**Finish:** G90 galvanized

## Design:

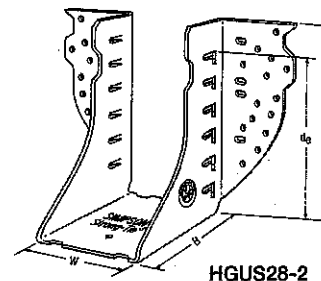
- Factored resistances are in accordance with CSA O86-14.
- Uplift resistances have been increased 15%. No further increase is permitted.
- Wood shear is not considered in the factored resistances given. The specifier must ensure that the joist and header capacities are capable of withstanding these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

## Installation:

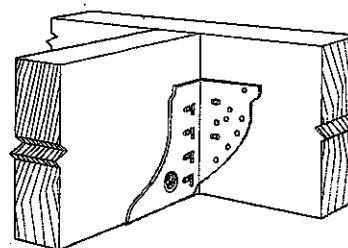
- Use all specified fasteners
- Nails: 16d = 0.162" dia x 3 1/2" long common wire
- Double shear nails must be driven at an angle through the joist or truss into the header to achieve the table loads
- Not designed for welded or nailer applications

## Options:

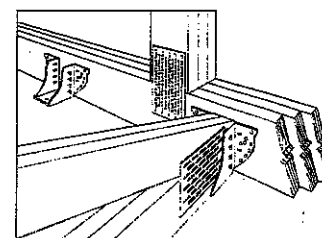
- See current catalogue for options



HGUS28-2



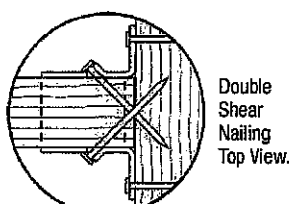
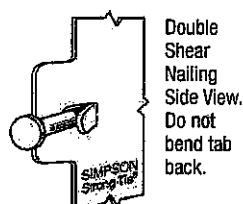
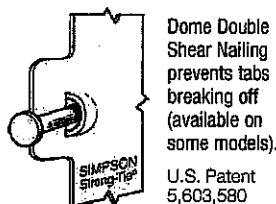
Typical HGUS Installation



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

| Model No. | Ga. | Dimensions (in.) |        |   |                             | Fasteners |          | Factored Resistance (lb.)        |                                  |                                  |                                  |
|-----------|-----|------------------|--------|---|-----------------------------|-----------|----------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|
|           |     | W                | H      | B | d <sub>g</sub> <sup>1</sup> | Face      | Joist    | D.Fir-L                          |                                  | S-P-F                            |                                  |
|           |     |                  |        |   |                             |           |          | Uplift<br>(K <sub>o</sub> =1.15) | Normal<br>(K <sub>o</sub> =1.00) | Uplift<br>(K <sub>o</sub> =1.15) | Normal<br>(K <sub>o</sub> =1.00) |
| HGUS26    | 12  | 1 5/8            | 5 3/8  | 5 | 4 3/32                      | (20) 16d  | (8) 16d  | 2685                             | 6625                             | 2685                             | 5700                             |
| HGUS26-2  | 12  | 3 3/16           | 5 7/16 | 4 | 4 1/8                       | (20) 16d  | (8) 16d  | 4385                             | 8950                             | 3100                             | 6355                             |
| HGUS26-3  | 12  | 4 1/16           | 5 1/2  | 4 | 4 1/8                       | (20) 16d  | (8) 16d  | 4385                             | 8950                             | 3100                             | 6355                             |
| HGUS26-4  | 12  | 6 3/16           | 5 7/16 | 4 | 4 1/8                       | (20) 16d  | (8) 16d  | 4385                             | 8950                             | 3100                             | 6355                             |
| HGUS28    | 12  | 1 5/8            | 7 1/8  | 5 | 6 1/8                       | (36) 16d  | (12) 16d | 3310                             | 7675                             | 3100                             | 6900                             |
| HGUS28-2  | 12  | 3 3/16           | 7 3/16 | 4 | 6 1/8                       | (36) 16d  | (12) 16d | 6070                             | 12980                            | 4310                             | 9215                             |
| HGUS28-3  | 12  | 4 1/16           | 7 1/8  | 4 | 6 1/8                       | (36) 16d  | (12) 16d | 6070                             | 12980                            | 4310                             | 9215                             |
| HGUS28-4  | 12  | 6 3/16           | 7 3/16 | 4 | 6 1/8                       | (36) 16d  | (12) 16d | 6070                             | 12980                            | 4310                             | 9215                             |
| HGUS210   | 12  | 1 5/8            | 9 1/8  | 5 | 7 7/8                       | (46) 16d  | (16) 16d | 3535                             | 11070                            | 2510                             | 8090                             |
| HGUS210-2 | 12  | 3 3/16           | 9 3/16 | 4 | 8 1/8                       | (46) 16d  | (16) 16d | 6840                             | 14015                            | 4855                             | 10270                            |
| HGUS210-3 | 12  | 4 1/16           | 9 1/4  | 4 | 8 3/8                       | (46) 16d  | (16) 16d | 6840                             | 14645                            | 4855                             | 10400                            |
| HGUS210-4 | 12  | 6 3/16           | 9 3/8  | 4 | 8 1/8                       | (46) 16d  | (16) 16d | 6840                             | 14645                            | 4855                             | 10400                            |
| HGUS212-4 | 12  | 6 3/16           | 10 5/8 | 4 | 10 1/8                      | (56) 16d  | (20) 16d | 7640                             | 14995                            | 5425                             | 10645                            |
| HGUS214-4 | 12  | 6 3/16           | 12 5/8 | 4 | 11 1/8                      | (66) 16d  | (22) 16d | 10130                            | 16400                            | 7195                             | 11645                            |

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



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

© 2020 Simpson Strong-Tie Company, Inc.

T-SPEC-HGUS20 3/20 exp. 6/22

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

# H – Seismic and Hurricane Ties

**SIMPSON**

**Strong-Tie**

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

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

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

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

**Installation:** • Use all specified fasteners

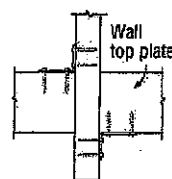
• Nails: 8d = 0.131" dia. x 2½" long common wire, 8d x 1½" = 0.131" x 1½" long, 10d x 1½" = 0.146" x 1½" long

• H1 can be installed with flanges facing outwards

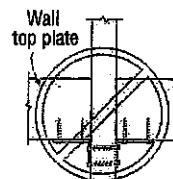
• Hurricane ties do not replace solid blocking

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

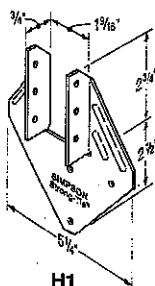
## Hurricane Tie Installations to Achieve Twice the Load (Top View)



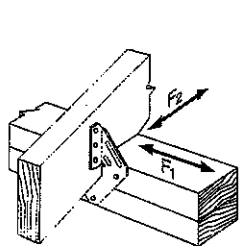
Install diagonally across from each other for minimum 2x truss.



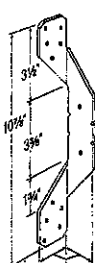
Nailing into both sides of a single ply 2x truss may cause the wood to split.



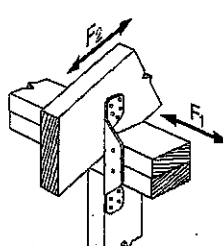
H1



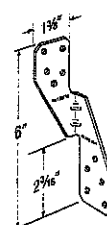
H1 Installation



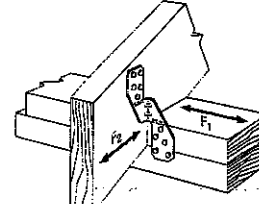
H2A



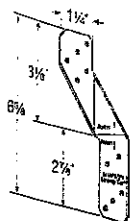
H2A Installation



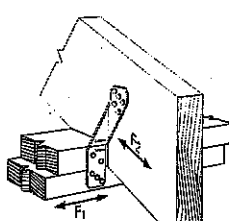
H2.5A



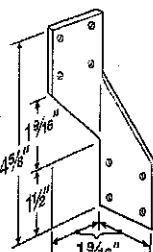
H2.5A Installation



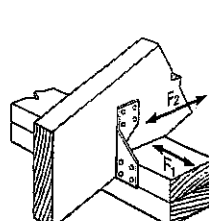
H2.5T



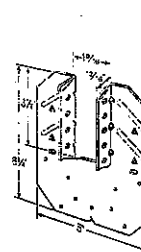
H2.5T Installation  
(Nails into both top plates)



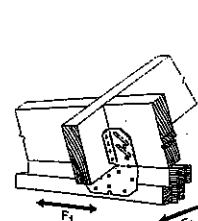
H3



H3 Installation



H10A



H10A Installation

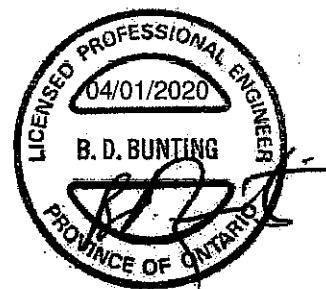
| Model No. | Ga. | Fasteners     |               |              | Factored Resistance (lb.) |                |                |        |                |                        |
|-----------|-----|---------------|---------------|--------------|---------------------------|----------------|----------------|--------|----------------|------------------------|
|           |     |               |               |              | D.Fir-L                   |                |                | S-P-F  |                |                        |
|           |     | To Rafter     | To Plates     | To Studs     | Uplift                    | Normal         |                | Uplift | Normal         |                        |
|           |     |               |               |              |                           | F <sub>1</sub> | F <sub>2</sub> |        | F <sub>1</sub> | F <sub>2</sub>         |
|           |     |               |               |              | (K <sub>0</sub> =1.15)    |                |                |        |                | (K <sub>0</sub> =1.15) |
| H1        | 18  | (6) 8d x 1½"  | (4) 8d        | —            | 740                       | 685            | 300            | 680    | 485            | 215                    |
| H2A       | 18  | (5) 8d x 1½"  | (2) 8d x 1½"  | (5) 8d x 1½" | 830                       | 220            | 75             | 590    | 155            | 55                     |
| H2.5A     | 18  | (5) 8d        | (5) 8d        | —            | 805                       | 160            | 160            | 755    | 160            | 160                    |
| H2.5T     | 18  | (5) 8d        | (5) 8d        | —            | 835                       | 175            | 240            | 740    | 160            | 210                    |
| H3        | 18  | (4) 8d        | (4) 8d        | —            | 740                       | 180            | 265            | 615    | 125            | 190                    |
| H10A      | 18  | (9) 10d x 1½" | (9) 10d x 1½" | —            | 1735                      | 795            | 410            | 1505   | 565            | 290                    |

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

2. Factored resistances are for one anchor. A minimum rafter thickness of 2½" must be used when framing anchors are installed on each side of the joist and on the same side of the plate.

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

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



**LIMIT  
STATES  
DESIGN**

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 on [www.strongtie.com](http://www.strongtie.com).

© 2020 Simpson Strong-Tie Company, Inc.

TSPECH20 3/20 exp. 6/22

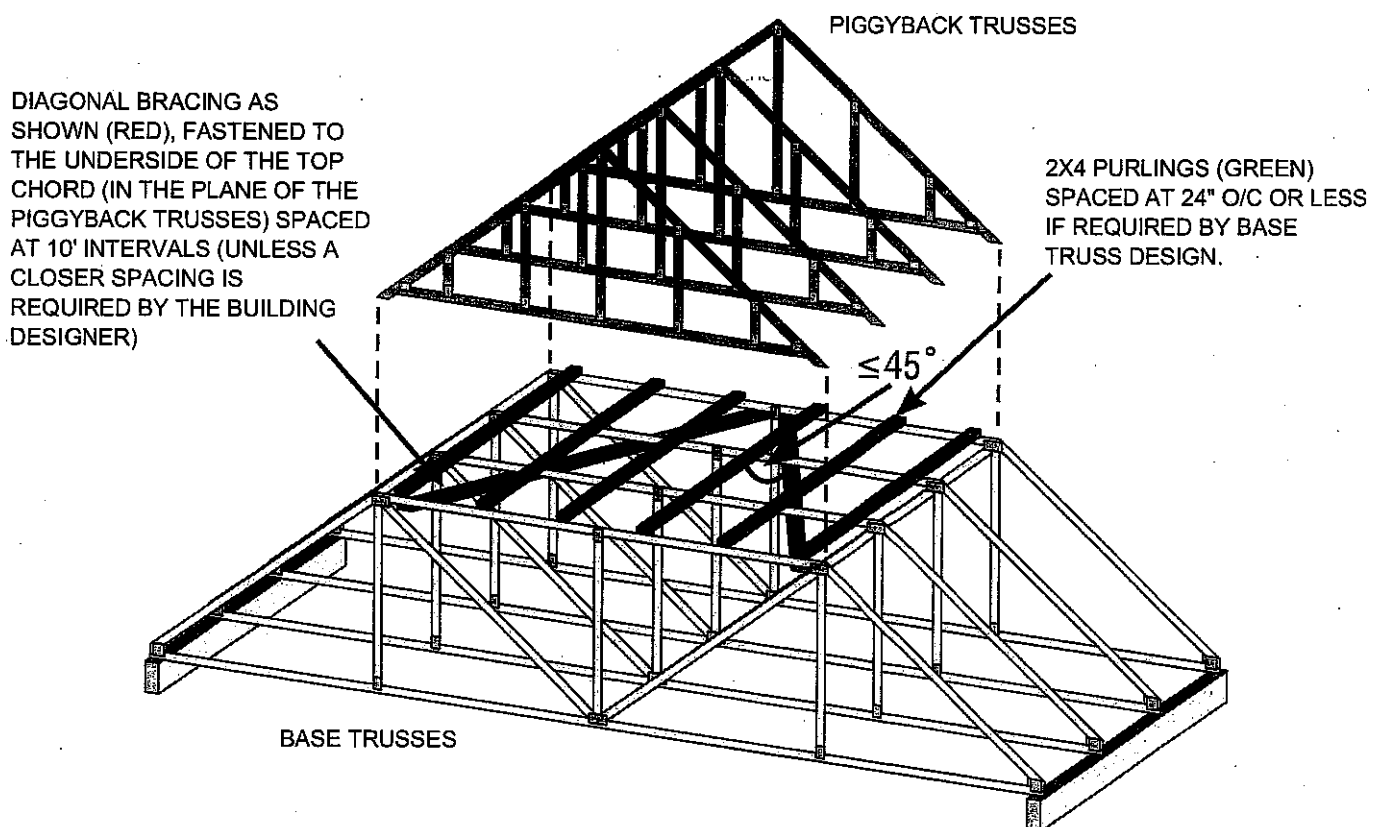
(800) 999-5099  
[strongtie.com](http://strongtie.com)

### Overview:

Where piggybacks are connected ovetop of base trusses, 2x4 purlins must be first added to the flat portion of the base truss at a spacing no more than 24" o/c. These purlins not only provide support for the piggyback trusses above, but are required to laterally support the top chord of the base truss which will not have the sheathing directly connected to the flat portion of the base truss. This ensures the top chord, most often in compression, will not buckle laterally.

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

### Detail:



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

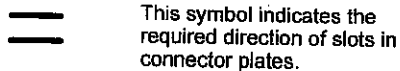
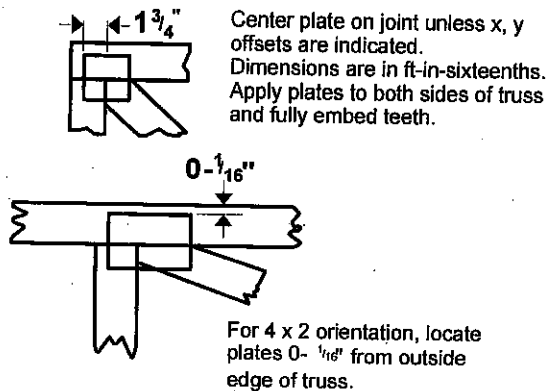
SKETCH FROM BCSI-CANADA 2013

### Disclaimer:

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

## Symbols

### PLATE LOCATION AND ORIENTATION



\* Plate location details available in MiTek 20/20 software or upon request.

### PLATE SIZE

4 x 4

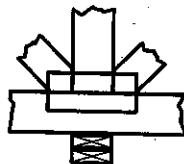
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

### LATERAL BRACING LOCATION



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

### BEARING

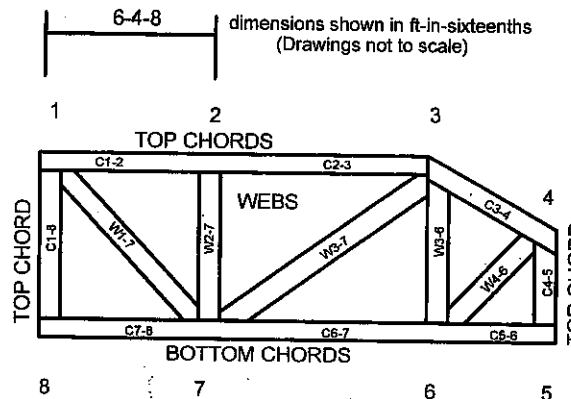


Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur. Min size shown is for crushing only.

### Industry Standards:

ANSI/TPI1: National Design Specification for Metal Plate Connected Wood Truss Construction.  
DSB-89: Design Standard for Bracing.  
BCSI: Building Component Safety Information, Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses.

## Numbering System



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

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

### PRODUCT CODE APPROVALS

ICC-ES Reports:

ESR-1311, ESR-1352, ESR-1988  
ER-3907, ESR-2362, ESR-1397, ESR-3282

Trusses are designed for wind loads in the plane of the truss unless otherwise shown.

Lumber design values are in accordance with ANSI/TPI 1 section 6.3. These truss designs rely on lumber values established by others.

© 2012 MiTek® All Rights Reserved

**MiTek**

MiTek Engineering Reference Sheet: MII-7473 rev. 10/03/2015



## General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

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