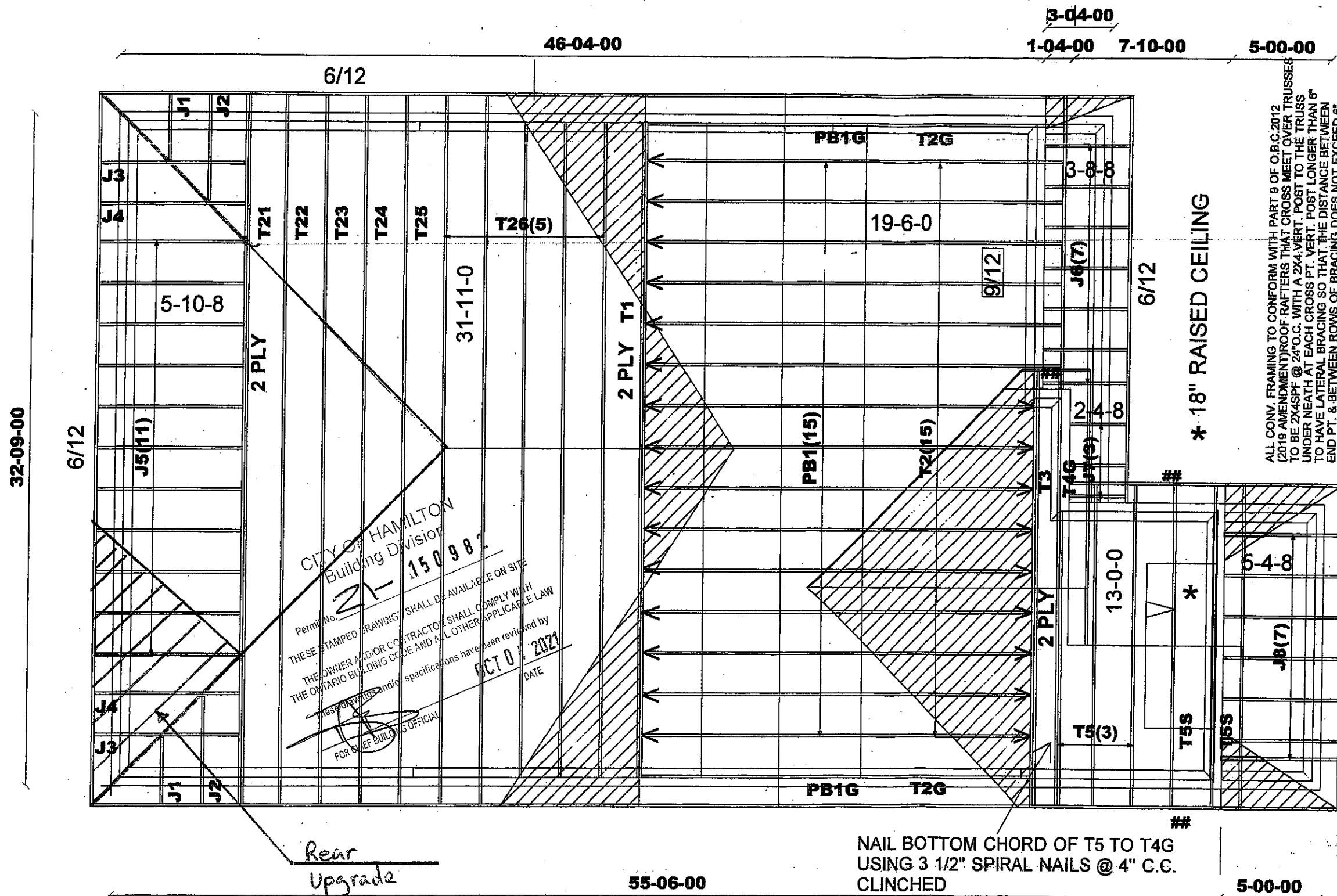




ALL CONV. FRAMING TO CONFORM WITH PART 9 OF O.B.C.2012 (2019 AMENDMENT) ROOF RAFTERS THAT CROSS MEET OVER TRUSSES TO BE 2X4SPF @ 24\"/>

ASPHALT SHINGLES
12\"/>

HARDWARE:
LJS26DS - (V)

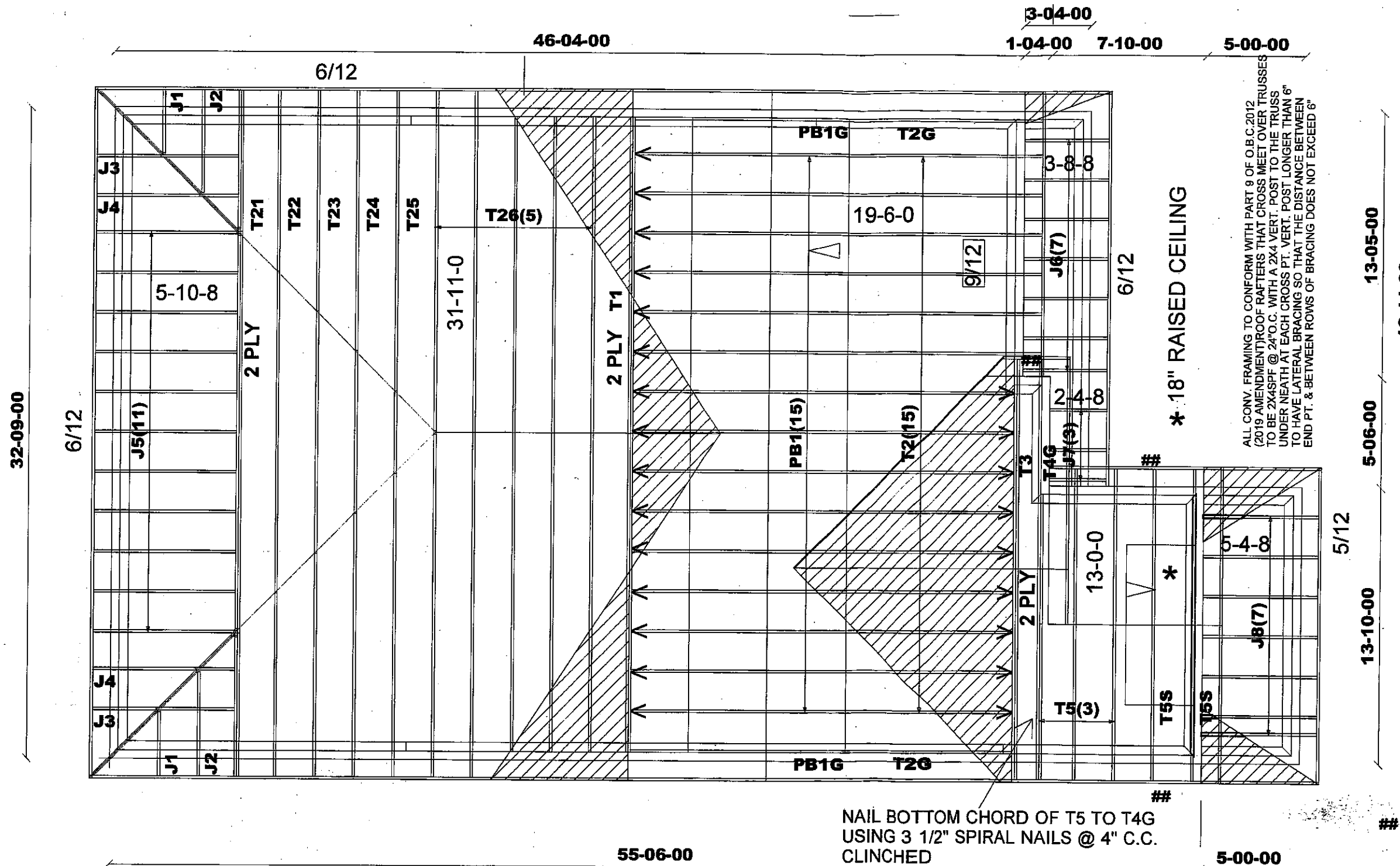
DENOTES
CONV.
FRAMING

DESIGN CONFORMS
WITH O.B.C.2012 PART 9
(2019 AMENDMENT)
DESIGN LOADS:
SNOW LOAD 25.6 PSF
TC DEAD 6 PSF
BC LIVE 0 PSF
BC DEAD 7.4 PSF

18\"/>

M13764

	Job Track: 51225	Builder / Location: GREEN PARK HOMES / WATERDOWN		Model / Elevation: VALLEYCREEK 5A/1 (WALKOUT CONDITION + REAR UPR	Milek ver 8.4.2.286
	Plan Log: 202410	Project: RUSSELL GARDENS PHASE 4		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	
	Layout ID: 408187	Date: 2021-03-12	Sales: Mario DiCano	Designer: AC/	



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

HARDWARE:
LJS26DS - (V)

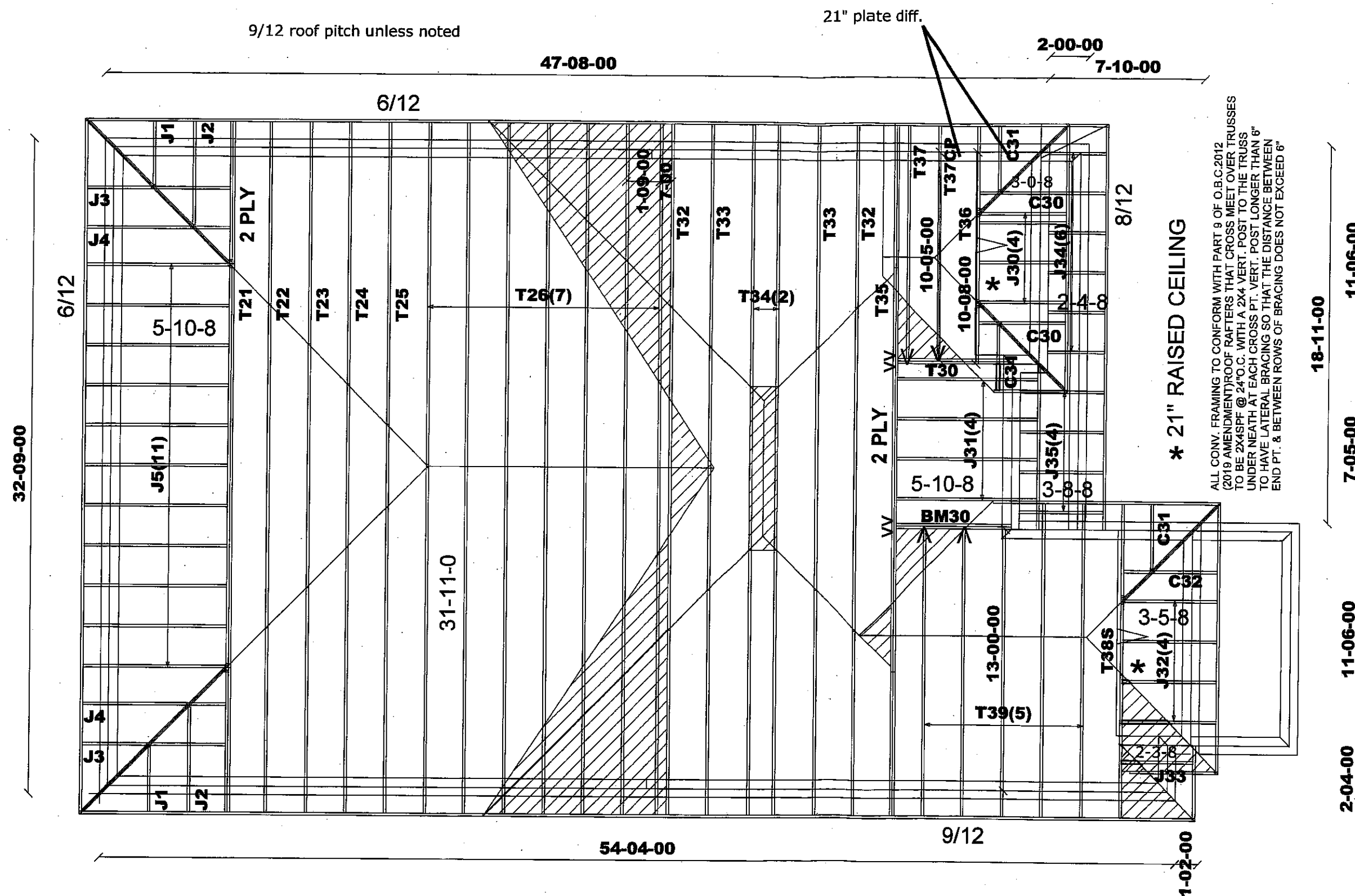
DENOTES
CONV.
FRAMING

DESIGN CONFORMS
WITH O.B.C.2012 PART 9
(2019 AMENDMENT)
DESIGN LOADS:
SNOW LOAD 25.6 PSF
TC DEAD 6 PSF
BC LIVE 0 PSF
BC DEAD 7.4 PSF

M13754



Job Track: 51225	Builder / Location: GREEN PARK HOMES / WATERDOWN	Model / Elevation: VALLEYCREEK 5A/1	Mitek ver 8.4.2.286
Plan Log: 202410	Project: RUSSELL GARDENS PHASE 4	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.	
Layout ID: 408187	Date: 2021-03-12	Sales: Mario DiCano	Designer: AC/jg



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

HARDWARE:
LUS24 - (O)
LJS26DS - (V)
LUS26-2 - (VV)

DENOTES
CONV.
FRAMING

DESIGN CONFORMS
WITH O.B.C.2012 PART 9
(2019 AMENDMENT)
DESIGN LOADS:
SNOW LOAD 25.6 PSF
TC DEAD 6 PSF
BC LIVE 0 PSF
BC DEAD 7.4 PSF

BM30 = 2-2X10

M13754



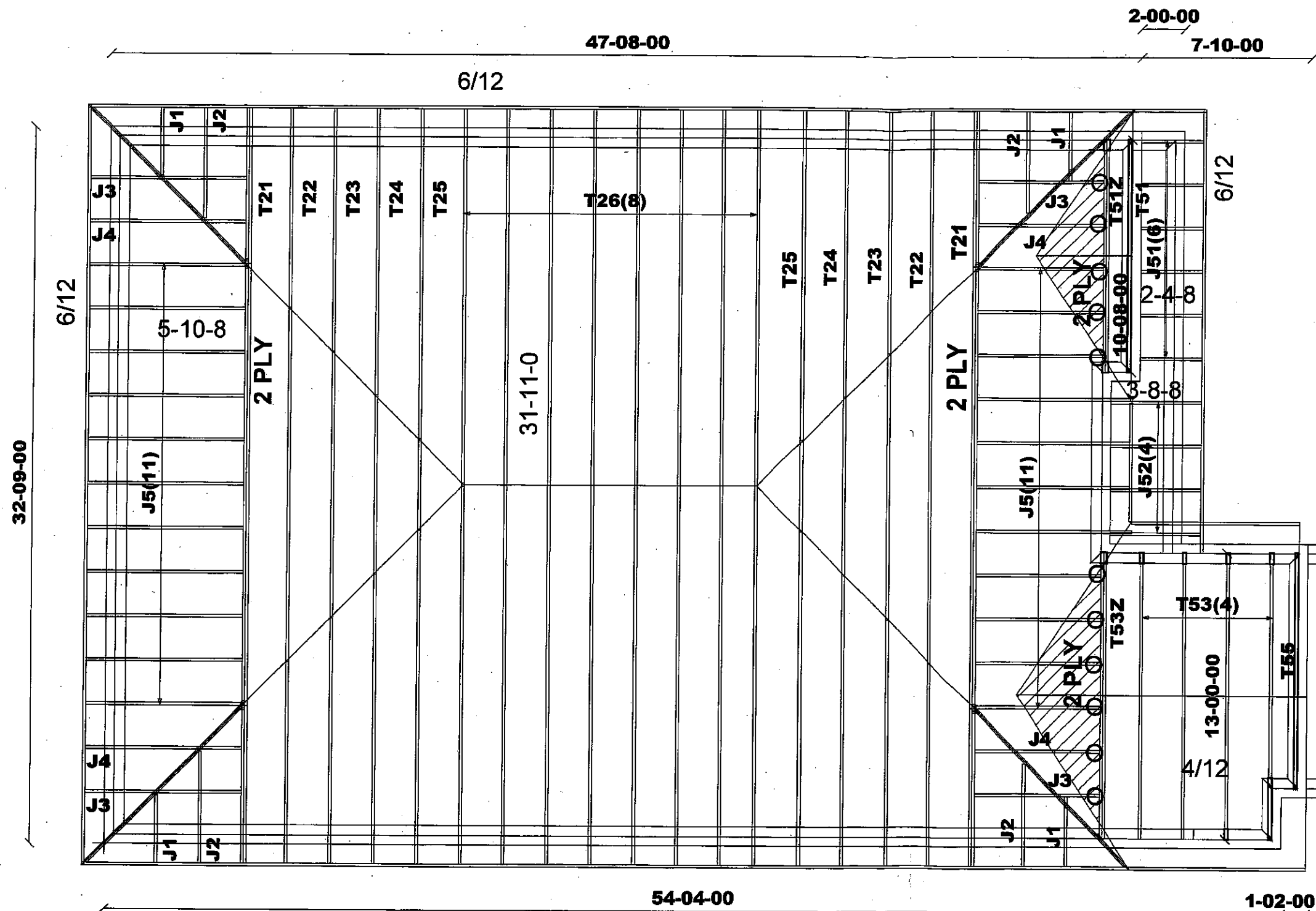
Job Track: **51225**
Plan Log: **202410**
Layout ID: **408188**

Builder / Location:
GREEN PARK HOMES / WATERDOWN
Project: **RUSSELL GARDENS PHASE 4**
Date: 2021-03-12 Sales: **Mario DiCano**

Model / Elevation:
VALLEYCREEK 5A/ 2

Mitek ver 8.4.2.288

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 CONV. FRAMING TO CONFORM WITH PART 9 OF O.B.C.2012
(2019 AMENDMENT) ROOF RAFTERS THAT CROSS OVER TRUSSES
TO BE 2X4SPF @ 24\"/>

ASPHALT SHINGLES
12\"/>

HARDWARE:
LUS24 - (O)

DENOTES
CONV.
FRAMING

DESIGN CONFORMS
WITH O.B.C.2012 PART 9
(2019 AMENDMENT)
DESIGN LOADS:
SNOW LOAD 25.6 PSF
TC DEAD 6 PSF
BC LIVE 0 PSF
BC DEAD 7.4 PSF

M13754



Job Track: **51225**
Plan Log: **202410**
Layout ID: **408189**

Builder / Location:
GREEN PARK HOMES / WATERDOWN
Project: **RUSSELL GARDENS PHASE 4**
Date: 2021-03-12 Sales: **Mario DiCaro** Designer: **AC/IG**

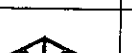
Model / Elevation:
VALLEYCREEK 5A/3

Mike ver 8.4.2.286

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.

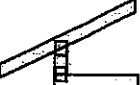
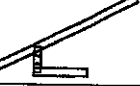
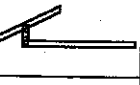
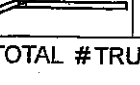
 TAMARACK ROOF TRUSSES INC. ALPHA LUMBER GROUP	DELIVERY SHIPLIST			
	Lumber Yard: TAMARACK LUMBER Builder: GREEN PARK HOMES Project: RUSSELL GARDENS PH.4 Location: WATERDOWN Model: VALLEYCREEK 5A Lot #: Elevation: 1	Job Track: 51225 PlanLog: 202410 Layout ID: 408187 Ref # Page: 1 of 2 Date: 04-20-2020 Designer: Sales Rep: Mario DiCano		

Roof Trusses

PROFILE	QTY PLY	MARK TYPE	PITCH	SPAN	HEIGHT	LUMBER	OVERHANG LEFT RIGHT	HEEL HEIGHT LEFT RIGHT	LBS. BFT.	BUNDLE # STACK #	LOAD BY REMARKS
	1 2-ply	T1 Common Girder	6 /12	31-11-00	9-01-12	2 x 6		1-02-00 1-02-00	405.7 245.33		
	15	T2 Piggyback Base	9 /12	19-06-00	8-00-00	2 x 4		1-06-04 5-09-04	1466.59 940.00		
	2	T2G GABLE	9 /12	19-06-00	8-00-00	2 x 4	1-03-08	1-06-04 5-09-04	220.23 139.67		
	1 2-ply	T3 Common Girder	9 /12	18-06-00	9-11-08	2 x 4 2 x 6	1-03-08 1-03-08	3-00-04 3-00-04	218.98 135.33		
	1	T4G GABLE	9 /12	18-06-00	9-11-08	2 x 4	1-03-08 1-03-08	3-00-04 3-00-04	106.29 67.33		
	3	T5 Common	9 /12	13-00-00	7-10-12	2 x 4 2 x 6	1-03-08 1-03-08	3-00-04 3-00-04	226.28 142.00		
	2	T5S Roof Special	9 /12	13-00-00	7-10-12	2 x 4	1-03-08 1-03-08	3-00-04 3-00-04	147.33 94.67		
	1 2-ply	T21 Hip Girder	6 /12	31-11-00	4-01-04	2 x 4 2 x 6	1-03-08 1-03-08	1-02-00 1-02-00	285.1 176.00		
	2	T22 Hip	6 /12	31-11-00	5-01-04	2 x 4	1-03-08 1-03-08	1-02-00 1-02-00	259.03 161.67		
	2	T23 Hip	6 /12	31-11-00	6-01-04	2 x 4	1-03-08 1-03-08	1-02-00 1-02-00	258.25 161.33		
	2	T24 Hip	6 /12	31-11-00	7-01-04	2 x 4	1-03-08 1-03-08	1-02-00 1-02-00	271.21 168.33		
	2	T25 Hip	6 /12	31-11-00	8-01-04	2 x 4	1-03-08 1-03-08	1-02-00 1-02-00	262.57 165.00		
	5	T26 Hip	6 /12	31-11-00	9-01-12	2 x 4	1-03-08 1-03-08	1-02-00 1-02-00	646.18 404.17		
	15	PB1 Piggyback	9 /12	7-10-11	2-11-08	2 x 4			306.92 192.50		

 TAMARACK ROOF TRUSSES INC. ALFA LUMBER GROUP	DELIVERY SHIPLIST	
	Lumber Yard: TAMARACK LUMBER Builder: GREEN PARK HOMES Project: RUSSELL GARDENS PH.4 Location: WATERDOWN Model: VALLEYCREEK 5A Lot #: Elevation: 1	Job Track: 51225 PlanLog: 202410 Layout ID: 408187 Ref # Page: 2 of 2 Date: 04-20-2020 Designer: Sales Rep: Mario DiCano

Roof Trusses

PROFILE	QTY PLY	MARK TYPE	PITCH	SPAN	HEIGHT	LUMBER	OVERHANG LEFT RIGHT	HEEL HEIGHT LEFT RIGHT	LBS. BFT.	BUNDLE # STACK #	LOAD BY REMARKS
	2	PB1G GABLE	9/12	7-10-11	2-11-08	2 x 4			43.38 27.67		
	2	J1 Jack-Open	6/12	1-10-15	2-01-08	2 x 4	1-03-08 1-01	1-02-00 2-01-08	14.65 9.33		
	2	J2 Jack-Open	6/12	2-00-00	3-01-08	2 x 4	1-03-08 1-10-15	1-02-00 2-02-00	19.75 12.00		
	2	J3 Jack-Open	6/12	1-10-15	2-01-08	2 x 4	1-03-08 3-11-09	1-02-00 2-01-08	23.48 14.67		
	2	J4 Jack-Open	6/12	3-10-15	3-01-08	2 x 4	1-03-08 1-11-09	1-02-00 3-01-08	28.58 17.33		
	11	J5 Jack-Open	6/12	5-10-08	4-01-04	2 x 4	1-03-08	1-02-00 4-01-04	184.74 117.33		
	7	J6 Jack-Open	6/12	3-08-08	2-09-15	2 x 4	1-03-08	4-03 1-09-11	80.04 51.33		
	3	J7 Jack-Open	6/12	2-04-08	2-01-15	2 x 4	1-03-08	4-03 1-01-11	24.64 18.00		
	7	J8 Jack-Open	5/12	5-04-08	3-01-02	2 x 4	1-03-08	4-01 2-02-15	101.52 65.33		

TOTAL # TRUSS= 95

TOTAL BFT OF ALL TRUSSES= 3526.32

BFT.

TOTAL WEIGHT OF ALL TRSSES 5601.45 LBS

HARDWARE

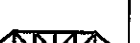
QTY	TYPE	MODEL	LENGTH
24	Hardware	LIS28DS	

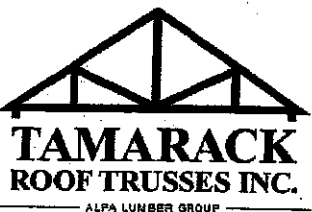
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24

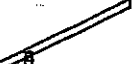
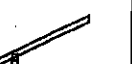
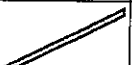
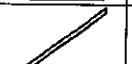
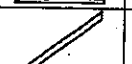
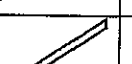
 TAMARACK ROOF TRUSSES INC. ALPA LUMBER GROUP	DELIVERY SHIPLIST	
	Lumber Yard: TAMARACK LUMBER Builder: GREEN PARK HOMES Project: RUSSELL GARDENS PH4 Location: WATERDOWN Model: VALLEYCREEK 5A Lot #: Elevation: 2	Job Track: 51225 PlanLog: 202410 Layout ID: 408188 Ref # Page: 1 of 3 Date: 04-20-2020 Designer: Sales Rep: Mario DiCano

Roof Trusses

PROFILE	QTY PLY	MARK TYPE	PITCH	SPAN	HEIGHT	LUMBER	OVERHANG LEFT RIGHT	HEEL HEIGHT LEFT RIGHT	LBS. BFT.	BUNDLE # STACK #	LOAD BY REMARKS
	1 2-ply	T21 Hip Girder	6 /12	31-11-00	4-01-04	2 x 4 2 x 6	1-03-08 1-03-08	1-02-00 1-02-00	285.1 178.00		
	1	T22 Hip	6 /12	31-11-00	5-01-04	2 x 4	1-03-08 1-03-08	1-02-00 1-02-00	129.52 80.83		
	1	T23 Hip	6 /12	31-11-00	6-01-04	2 x 4	1-03-08 1-03-08	1-02-00 1-02-00	129.12 80.67		
	1	T24 Hip	6 /12	31-11-00	7-01-04	2 x 4	1-03-08 1-03-08	1-02-00 1-02-00	135.61 84.17		
	1	T25 Hip	6 /12	31-11-00	8-01-04	2 x 4	1-03-08 1-03-08	1-02-00 1-02-00	131.28 82.50		
	7	T26 Hip	6 /12	31-11-00	9-01-12	2 x 4	1-03-08 1-03-08	1-02-00 1-02-00	904.65 565.83		
	1 2-ply	T30 Flat Girder	0 /12	5-10-08	1-09-00	2 x 6		1-09-00 1-09-00	54.63 32.67		
	2	T32 Hip	9 /12	31-11-00	7-05-02	2 x 4	1-03-08 1-03-08	1-06-04 1-06-04	296.23 185.67		
	2	T33 Hip	9 /12	31-11-00	8-11-02	2 x 4	1-03-08 1-03-08	1-06-04 1-06-04	309.9 195.87		
	2	T34 Hip	9 /12	31-11-00	10-05-02	2 x 4	1-03-08 1-03-08	1-06-04 1-06-04	330.99 204.67		
	1 2-ply	T35 Hip Girder	9 /12	31-11-00	5-11-02	2 x 4 2 x 6	1-03-08 1-03-08	1-06-04 1-06-04	315.75 200.87		
	1	T36 Hip Girder	9 /12	10-08-00	3-09-10	2 x 4	1-03-08 1-03-08	1-06-04 1-06-04	49.02 32.33		
	1	T37 Common	9 /12	10-05-00	7-01-00	2 x 4	1-03-08 1-03-08	3-01-00 3-03-04	51.41 32.83		
	1	T37CP Hip	9 /12	10-05-00	6-10-06	2 x 4	1-03-08 1-03-08	3-01-00 3-03-04	53.15 34.00		

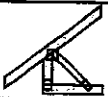
 TAMARACK ROOF TRUSSES INC. ALPA LUMBER GROUP	DELIVERY SHIPLIST	
	Lumber Yard: TAMARACK LUMBER Builder: GREEN PARK HOMES Project: RUSSELL GARDENS PH4 Location: WATERDOWN Model: VALLEYCREEK 5A Lot #: Elevation: 2	Job Track: 51225 Plan Log: 202410 Layout ID: 408188 Ref #: Page: 2 of 3 Date: 04-20-2020 Designer: Sales Rep: Mario DiCano

Roof Trusses

PROFILE	QTY PLY	MARK TYPE	PITCH	SPAN	HEIGHT	LUMBER	OVERHANG LEFT RIGHT	HEEL HEIGHT LEFT RIGHT	LBS. BFT.	BUNDLE # STACK #	LOAD BY REMARKS
	1	T38S Hip Girder	9/12	13-00-00	5-10-06	2 x 4	1-03-08 1-03-08	1-06-04 1-06-04	61.59 41.50		
	5	T39 Common	9/12	13-00-00	7-03-04	2 x 4	1-03-08 1-03-08	1-06-04 3-03-04	302.69 192.50		
	2	J1 Jack-Open	6/12	1-10-15	2-01-08	2 x 4	1-03-08 1-01	1-02-00 2-01-08	14.65 9.33		
	2	J2 Jack-Open	6/12	2-00-00	3-01-08	2 x 4	1-03-08 1-10-15	1-02-00 2-02-00	19.75 12.00		
	2	J3 Jack-Open	6/12	1-10-15	2-01-08	2 x 4	1-03-08 3-11-09	1-02-00 2-01-08	23.48 14.67		
	2	J4 Jack-Open	6/12	3-10-15	3-01-08	2 x 4	1-03-08 1-11-09	1-02-00 3-01-08	28.58 17.33		
	11	J5 Jack-Open	6/12	5-10-08	4-01-04	2 x 4	1-03-08	1-02-00 4-01-04	184.74 117.33		
	4	J30 Jack-Open	9/12	3-00-08	3-09-10	2 x 4	1-03-08	1-06-04 3-09-10	51.64 38.00		
	4	J31 Jack-Open	9/12	5-10-08	5-11-02	2 x 4	1-03-08	1-06-04 5-11-02	80.72 54.00		
	4	J32 Jack-Open	9/12	3-05-08	4-01-06	2 x 4	1-03-08	1-06-04 4-01-06	55.92 40.67		
	1	J33 Jack-Open	9/12	2-03-08	3-02-14	2 x 4	1-03-08	1-06-04 3-02-14	10.86 8.17		
	6	J34 Jack-Open	8/12	2-04-08	2-09-09	2 x 4	1-03-08	4-07 1-05-02	50.72 36.00		
	4	J35 Jack-Open	8/12	3-08-08	3-08-03	2 x 4	1-03-08	4-07 2-03-13	47.21 32.00		
	2	C30 Jack-Open	9/12	1-10-15	2-11-07	2 x 4	1-03-08 1-01-09	1-06-04 2-11-07	21.81 16.67		

 TAMARACK ROOF TRUSSES INC. ALFA LUMBER GROUP	DELIVERY SHIPLIST	
	Lumber Yard: TAMARACK LUMBER Builder: GREEN PARK HOMES Project: RUSSELL GARDENS PH4 Location: WATERDOWN Model: VALLEYCREEK 5A Lot #: Elevation: 2	Job Track: 51225 PlanLog: 202410 Layout ID: 408188 Ref # Page: 3 of 3 Date: 04-20-2020 Designer: Sales Rep: Mario DiCano

Roof Trusses

PROFILE	QTY PLY	MARK TYPE	PITCH	SPAN	HEIGHT	LUMBER	OVERHANG LEFT RIGHT	HEEL HEIGHT LEFT RIGHT	LBS. BFT.	BUNDLE # STACK #	LOAD BY REMARKS
	3	C31 Jack-Open	9/12	1-10-15	2-11-07	2 x 4	1-03-08 1-01	1-06-04 2-11-07	29.15 21.00		
	1	C32 Jack-Open	9/12	1-10-15	2-11-07	2 x 4	1-03-08 1-06-09	1-06-04 2-11-07	11.38 8.33		

TOTAL # TRUSS= 80

TOTAL BFT OF ALL TRUSSES= 2648.01

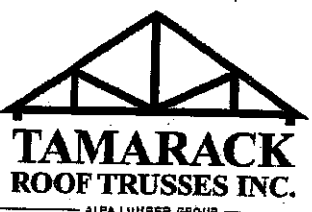
BFT.

TOTAL WEIGHT OF ALL TRSSES 4171.25 LBS

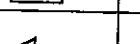
HARDWARE

QTY	TYPE	MODEL	LENGTH
4	Hardware	LJS26DS	
2	Hardware	LUS26-2	

TOTAL NUMBER OF
ITEMS= 6

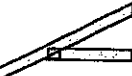
 TAMARACK ROOF TRUSSES INC. ALPA LUMBER GROUP	DELIVERY SHIPLIST			
	Lumber Yard: TAMARACK LUMBER Builder: GREEN PARK HOMES Project: RUSSELL GARDENS PH4 Location: WATERDOWN Model: VALLEYCREEK 5A Lot #: Elevation: 3	Job Track: 51225 Plan Log: 202410 Layout ID: 408189 Ref #: Page: 1 of 2 Date: 04-20-2020 Designer: Sales Rep: Mario DiCano		

Roof Trusses

PROFILE	QTY PLY	MARK TYPE	PITCH	SPAN	HEIGHT	LUMBER	OVERHANG LEFT RIGHT	HEEL HEIGHT LEFT RIGHT	LBS. BFT.	BUNDLE # STACK #	LOAD BY REMARKS
	2 2-ply	T21 Hip Girder	6/12	31-11-00	4-01-04	2 x 4 2 x 6	1-03-08 1-03-08	1-02-00 1-02-00	570.2 352.00		
	2	T22 Hip	6/12	31-11-00	5-01-04	2 x 4	1-03-08 1-03-08	1-02-00 1-02-00	259.03 161.67		
	2	T23 Hip	6/12	31-11-00	6-01-04	2 x 4	1-03-08 1-03-08	1-02-00 1-02-00	258.25 161.33		
	2	T24 Hip	6/12	31-11-00	7-01-04	2 x 4	1-03-08 1-03-08	1-02-00 1-02-00	271.21 168.33		
	2	T25 Hip	6/12	31-11-00	8-01-04	2 x 4	1-03-08 1-03-08	1-02-00 1-02-00	262.57 165.00		
	8	T26 Hip	6/12	31-11-00	9-01-12	2 x 4	1-03-08 1-03-08	1-02-00 1-02-00	1033.89 646.67		
	1	T51 Common	4/12	10-08-00	2-08-08	2 x 4		11-03 11-03	35.98 23.17		
	1 2-ply	T51Z Common Girder	4/12	10-08-00	2-08-08	2 x 4		11-03 11-03	71.96 46.33		
	4	T53 Common	4/12	13-00-00	3-01-03	2 x 4		11-03 11-03	181.41 117.33		
	1 2-ply	T53Z Common Girder	4/12	13-00-00	3-01-03	2 x 4		11-03 11-03	90.7 58.67		
	1	T55 Common	4/12	10-08-00	3-01-03	2 x 4		11-03 1-08-08	37.95 24.83		
	4	J1 Jack-Open	6/12	1-04-07	1-10-04	2 x 4	1-03-08 6-01	1-02-00 1-10-04	25.96 18.67		
	4	J2 Jack-Open	6/12	1-10-08	3-00-12	2 x 4	1-03-08 1-10-15	1-02-00 2-01-04	38.28 24.00		
	4	J3 Jack-Open	6/12	1-09-07	2-00-12	2 x 4	1-03-08 4-01-01	1-02-00 2-00-12	46.33 29.33		

 TAMARACK ROOF TRUSSES INC. ALPHA LUMBER GROUP	DELIVERY SHIPLIST	
	Lumber Yard: TAMARACK LUMBER Builder: GREEN PARK HOMES Project: RUSSELL GARDENS PH4 Location: WATERDOWN Model: VALLEYCREEK 5A Lot #: Elevation: 3	Job Track: 51225 Plan Log: 202410 Layout ID: 408189 Ref # Page: 2 of 2 Date: 04-20-2020 Designer: Sales Rep: Mario DiCano

Roof Trusses

PROFILE	QTY PLY	MARK TYPE	PITCH	SPAN	HEIGHT	LUMBER	OVERHANG LEFT RIGHT	HEEL HEIGHT LEFT RIGHT	LBS. BFT.	BUNDLE # STACK #	LOAD BY REMARKS
	4	J4 Jack-Open	6 /12	3-10-15	3-01-08	2 x 4	1-03-08 1-11-09	1-02-00 3-01-08	57.17 34.67		
	22	J5 Jack-Open	6 /12	5-10-08	4-01-04	2 x 4	1-03-08	1-02-00 4-01-04	369.48 234.67		
	6	J51 GABLE	6 /12	2-04-08	2-01-15	2 x 4	1-03-08	4-03 1-01-11	45.29 32.00		
	4	J52 Jack-Open	6 /12	3-08-08	2-09-15	2 x 4	1-03-08	4-03 1-09-11	43.08 26.67		

TOTAL #TRUSS= 78

TOTAL BFT OF ALL TRUSSES= 2325.34

BFT.

TOTAL WEIGHT OF ALL TRSSES 3698.75 LBS

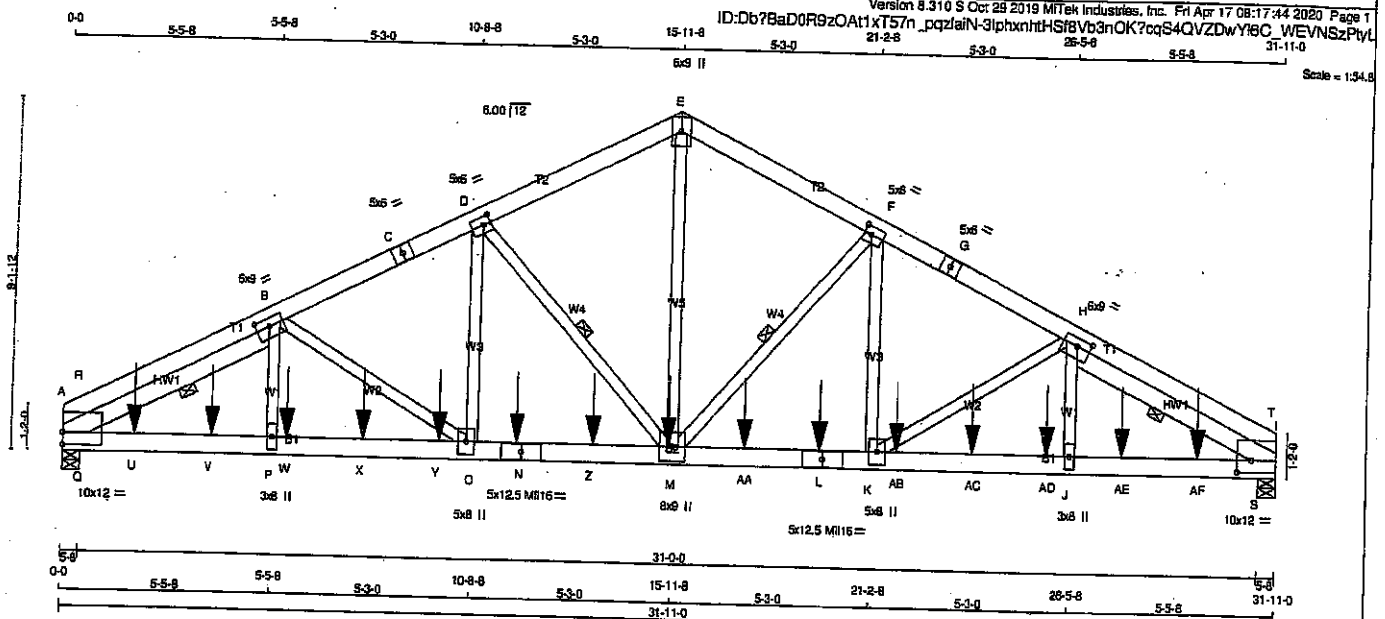
HARDWARE

QTY	TYPE	MODEL	LENGTH
11	Hardware	LUS24	

TOTAL NUMBER OF
ITEMS=

11

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
408187	T1	1	2	GREEN PARK HOMES	
Tamarack Roof Truss, Burlington					
Version 8.310 S Oct 29 2019 MTEK Industries, Inc. Fri Apr 17 08:17:44 2020 Page 1					
ID:Db7BaD0R9z0A1kT57n_pqzlaIn-3lphxnhH8S18Vb3nOK?cqS4QVZDwY16C_WEVNSzPtyL					
21-2-8 25-5-8 31-11-0					
Scale = 1:34.8					



CHORDS	SIZE	DRY	LUMBER	DESCR.
A - C	2x6	DRY	No.2	SPF
C - E	2x6	DRY	No.2	SPF
E - G	2x6	DRY	No.2	SPF
G - I	2x6	DRY	No.2	SPF
A - N	2x6	DRY	2100F 1.8E	SPF
N - L	2x6	DRY	2100F 1.8E	SPF
L - I	2x6	DRY	2100F 1.8E	SPF

REINFORCING MEMBERS	SIZE	DRY	LUMBER	DESCR.
HW1	2x6	DRY	No.2	SPF
HW2	2x6	DRY	No.2	SPF

ALL WEBS 2x4 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-E 2	12	TOP
E-G 2	12	TOP
G-I 2	12	TOP
BOTTOM CHORDS : (0.122"x3") SPIRAL NAILS		
A-N 2	12	SIDE(197.8)
N-L 2	12	SIDE(197.8)
L-I 2	12	SIDE(0.0)
WEBS : (0.122"x3") SPIRAL NAILS		
M-E 1	6	SIDE(77.8)
B-P 1	6	SIDE(77.8)
2x4 1	6	
2x6 2	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	TMBWW-1	MT20	10.0	12.0	3.75	
B	TMBWW-1	MT20	6.0	9.0	2.50	4.25
C	TS-1	MT20	5.0	8.0		
D	TMBWW-1	MT20	5.0	6.0	2.50	2.25
E	TTW-p	MT20	6.0	9.0		
F	TMBWW-1	MT20	5.0	6.0	2.50	2.25
G	TS-1	MT20	5.0	8.0		
H	TMBWW-1	MT20	6.0	9.0	2.50	4.25
I	TMBWW-1	MT20	10.0	12.0	3.75	4.50
J	BMW-w	MT20	3.0	8.0		
K	BMW-w	MT20	5.0	8.0		
L	BS-1	MI16	5.0	12.5		
M	BMW/WW-1	MT20	8.0	9.0		
N	BS-1	MI16	5.0	12.5		
O	BMW/WW-1	MT20	5.0	8.0		
P	BMW-w	MT20	3.0	8.0		

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

FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT	REQD
JT VERT	9724	0	0
A	9724	0	0
I	9642	0	0

UNFACTORED REACTIONS	1ST LCASE	MAX. MIN. COMPONENT REACTIONS	PERM. LIVE	WIND	DEAD	SOIL
JT	COMBINED	SNOW	LIVE			
A	8864	4578	0	0	0	0
I	8805	4539	0	0	0	0

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.05 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-M, D-M, B-Q, H-S.

LOADING

TOTAL LOAD CASES: (4)

CHORDS			FACTORED			WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	VERT. LOAD (PLF)	LC1	MAX. CSI (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. CSI (LC)		
FR-TO		FROM	TO		FR-TO				
A-R	-12888	0	-91.8	-91.8	0.44 (1)	3.11	M-E	0 9101	0.80 (1)
R-B	-7103	0	-91.8	-91.8	0.29 (1)	4.26	M-F	-4061 0	0.62 (1)
B-C	-13578	0	-91.8	-91.8	0.45 (1)	3.06	K-F	0 3829	0.34 (1)
C-D	-13578	0	-91.8	-91.8	0.45 (1)	3.06	K-H	-1767 0	0.42 (1)
D-E	-10688	0	-91.8	-91.8	0.29 (1)	3.59	J-H	0 2850	0.25 (1)
E-F	-10688	0	-91.8	-91.8	0.29 (1)	3.59	D-M	-4017 0	0.61 (1)
F-G	-13608	0	-91.8	-91.8	0.46 (1)	3.05	O-D	0 3782	0.39 (1)
G-H	-13608	0	-91.8	-91.8	0.46 (1)	3.05	B-O	-1789 0	0.43 (1)
H-T	-7040	0	-91.8	-91.8	0.30 (1)	4.27	P-B	0 2856	0.29 (1)
T-I	-12554	0	-91.8	-91.8	0.44 (1)	3.13	Q-R		

FACTORED CONCENTRATED LOADS (LBS)	LOC.	LC1	MAX-	FACE	DIR.	TYPE	HEEL	CONN.
L	19-10-4	-1056	-1056	---	BACK	VERT	TOTAL	C1
M	15-10-4	-1056	-1056	---	BACK	VERT	TOTAL	C1
N	11-10-4	-1056	-1056	---	BACK	VERT	TOTAL	C1
U	1-10-4	-1056	-1056	---	BACK	VERT	TOTAL	C1
V	3-10-4	-1056	-1056	---	BACK	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

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

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

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

ALLOWABLE DEFL.(LL) = L/360 (1.06")
CALCULATED VERT. DEFL.(LL) = L/999 (0.21")
ALLOWABLE DEFL.(TL) = L/360 (1.06")
CALCULATED VERT. DEFL.(TL) = L/999 (0.38")

CSI: TC=0.46/1.00 (F-H:1), BC=0.59/1.00 (D-P:1).
WB=0.80/1.00 (E-M:1), SS=0.59/1.00 (O-P:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

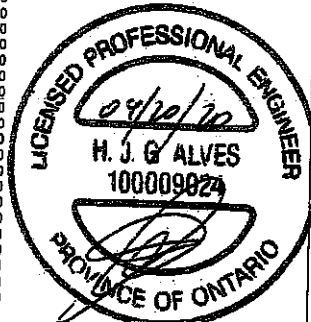
NAIL VALUES
PLATE GRIP(DRY) SHEAR SECTION (PSI) (PL) (PLI)
MAX MIN MAX MIN MAX MIN
MT20 618 354 1867 788 1967 1656
MI16 438 276 2341 1245 4263 1656

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

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

JSI METAL= 0.82 (A) (INPUT = 1.00)



Structural component only 1/2
DWG# T-2006424

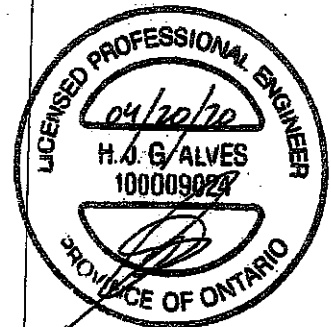
JOB NAME 408187	TRUSS NAME T1	QUANTITY 1	PLY 2	JOB DESC. GREEN PARK HOMES	ORWG NO.
Tamarack Road Truss, Burlington				TRUSS DESC.	

Version 8.310 S Oct 29 2019 Mittek Industries, Inc. Fri Apr 17 08:17:44 2020 Page 2
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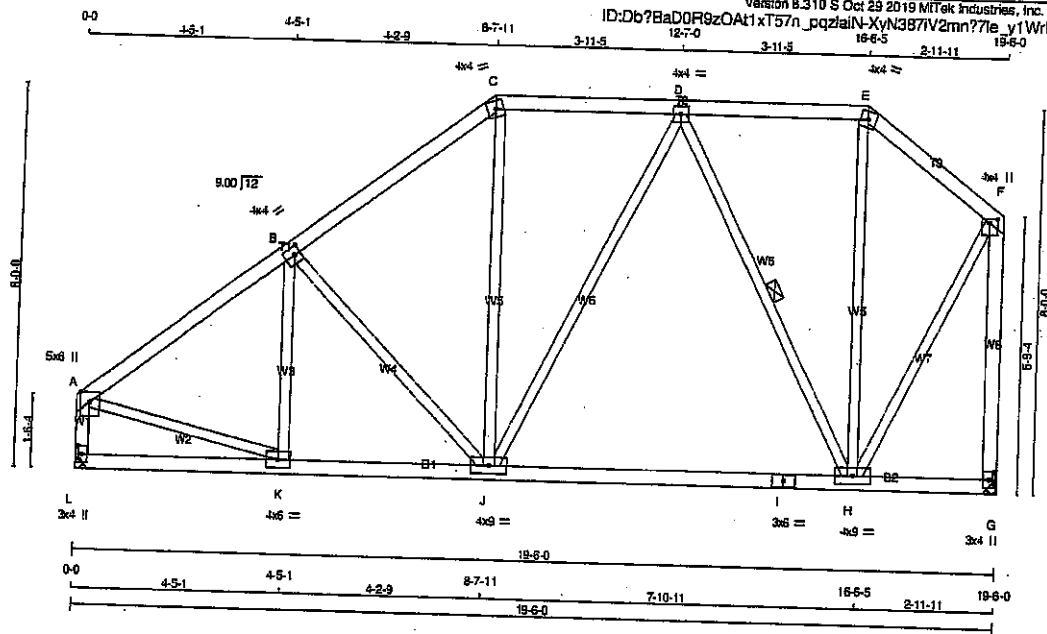
FACTORED CONCENTRATED LOADS (LBS)									
JT	LOC.	LC1	MAX-	MAX+	FACE	DIR.	TYPE	HEEL	CONN.
W	5-10-4	-1056	-1056	---	BACK	VERT	TOTAL	---	C1
X	7-10-4	-1056	-1056	---	BACK	VERT	TOTAL	---	C1
Y	9-10-4	-1056	-1056	---	BACK	VERT	TOTAL	---	C1
Z	13-10-4	-1056	-1056	---	BACK	VERT	TOTAL	---	C1
AA	17-10-4	-1056	-1056	---	BACK	VERT	TOTAL	---	C1
AB	21-10-4	-1056	-1056	---	BACK	VERT	TOTAL	---	C1
AC	23-10-4	-1056	-1056	---	BACK	VERT	TOTAL	---	C1
AD	25-10-4	-1056	-1056	---	BACK	VERT	TOTAL	---	C1
AE	27-10-4	-1056	-1056	---	BACK	VERT	TOTAL	---	C1
AF	29-10-4	-1056	-1056	---	BACK	VERT	TOTAL	---	C1

CONNECTION REQUIREMENTS

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



JOB NAME 408187 Tamarack Roof Truss, Burlington	TRUSS NAME T2	QUANTITY 15	PLY 1	JOB DESC. GREEN PARK HOMES	DRWG NO.
TRUSS DESC.					



LUMBER

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

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT TYPE	PLATES	W	LEN	Y	X
A	TMVW+p	MT20	5.0	8.0	Edge
B	TMVW-i	MT20	4.0	4.0	2.00 1.50
C	TTW-m	MT20	4.0	4.0	
D	TMVW-t	MT20	4.0	4.0	
E	TTW-m	MT20	4.0	4.0	
F	TMVW+p	MT20	4.0	4.0	1.00 2.00
G	BMV1+p	MT20	3.0	4.0	
H	BMVWV-i	MT20	4.0	9.0	
I	SS-i	MT20	3.0	6.0	
J	BMVWV-i	MT20	4.0	9.0	
K	BMVWV-i	MT20	4.0	6.0	
L	BMV1+p	MT20	3.0	4.0	

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

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

BEARINGS	FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	RECORD BRG
JT	VERT	DOWN	IN-SX	IN-SX
L	1075	0	0	0
G	1075	0	0	0

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

UNFACTORED REACTIONS

JT	1ST LCASE	MAX. MIN. COMPONENT REACTIONS	PERM. LIVE	WIND	DEAD	SOIL
L	760	499.0	0.0	0.0	261.0	0.0
G	760	499.0	0.0	0.0	261.0	0.0

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 5.87 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

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

1 LATERAL BRACE(S) AT 1/2 LENGTH OF D-H.

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. LC1 (1)	MAX. LC2 (1)	UNBRACED LENGTH	FR-TO	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. LC1 (1)	MAX. LC2 (1)
A-B	-1052.0	-91.8	-91.8	0.23 (1)	5.87	K-B	-182.5	0.08 (1)	0.18 (1)	0.18 (1)
B-C	-879.0	-91.8	-91.8	0.23 (1)	6.25	B-J	-268.0	0.05 (1)	0.05 (1)	0.05 (1)
C-D	-682.0	-91.8	-91.8	0.18 (1)	6.25	J-C	0.226	0.03 (1)	0.03 (1)	0.03 (1)
D-E	-369.0	-91.8	-91.8	0.18 (1)	6.25	J-D	0.102	0.03 (1)	0.03 (1)	0.03 (1)
E-F	-463.0	-91.8	-91.8	0.11 (1)	6.25	D-H	-588.0	0.30 (1)	0.30 (1)	0.30 (1)
L-A	-1038.0	0.0	0.0	0.11 (1)	7.71	H-E	0.50	0.02 (1)	0.02 (1)	0.02 (1)
G-F	-1070.0	0.0	0.0	0.71 (1)	7.62	A-K	0.895	0.20 (1)	0.20 (1)	0.20 (1)
L-K	0.0	-18.5	-18.5	0.08 (1)	10.00	H-F	0.751	0.17 (1)	0.17 (1)	0.17 (1)
K-J	0.864	-18.5	-18.5	0.24 (1)	10.00					
J-I	0.636	-18.5	-18.5	0.23 (1)	10.00					
I-H	0.636	-18.5	-18.5	0.23 (1)	10.00					
H-G	0.0	-18.5	-18.5	0.18 (1)	10.00					

TOTAL WEIGHT = 15 X 98 = 1487 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 2.00/12 MINIMUM

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

THIS DESIGN COMPLIES WITH:

- PART 9 OF CBC 2015, CBC 2012, ABC 2019
- PART 9 OF CBC 2012 (2019 AMENDMENT)
- CSA 086-09, CSA 086-14
- TPIC 2017, 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 (0.85")
CALCULATED VERT. DEFL.(LL) = L/999 (0.02")
ALLOWABLE DEFL.(TL) = L/360 (0.85")
CALCULATED VERT. DEFL.(TL) = L/999 (0.09")

CS: TC=0.71/1.00 (F-G:1), BC=0.24/1.00 (J-K:4),
WB=0.30/1.00 (D-H: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

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

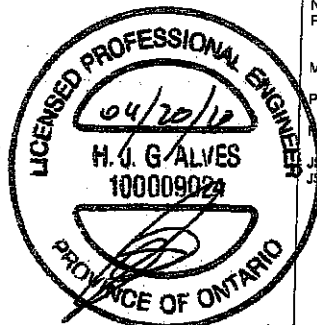
NAIL VALUES

PLATE GRIP (DRY)	SHEAR (PSI)	SECTION (PLI)
MT20	618	354
	1657	788
	1987	1658

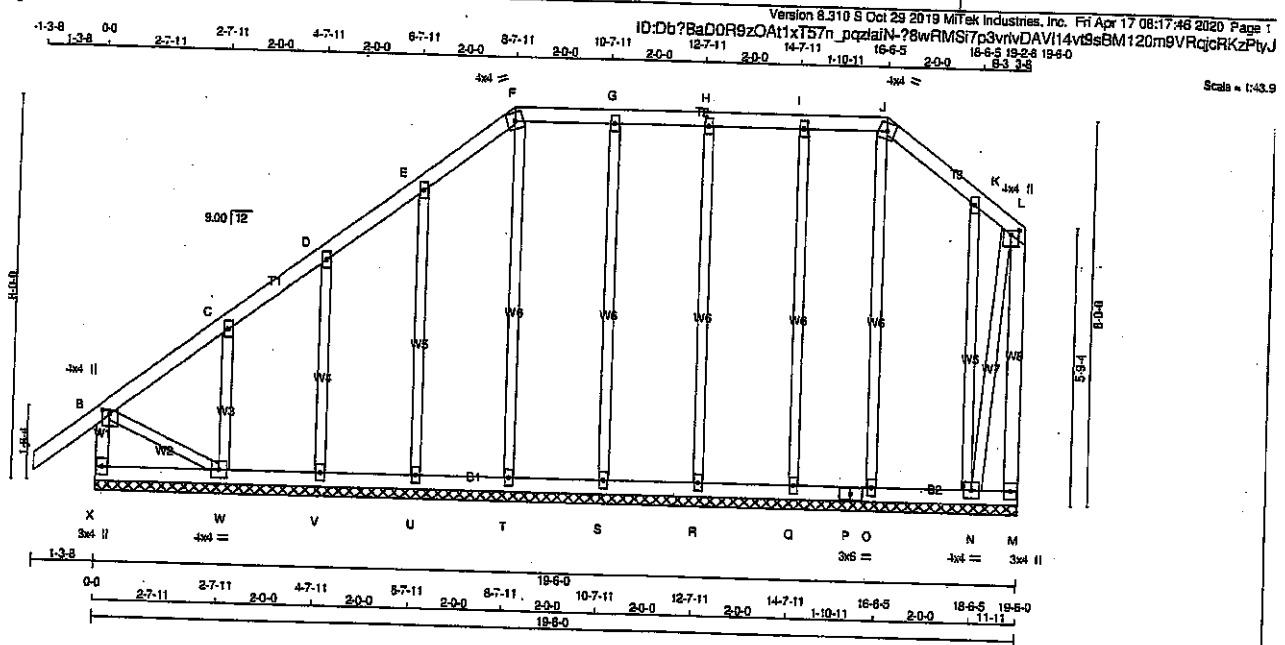
PLATE PLACEMENT TOL = 0.250 inches

PLATE ROTATION TOL = 5.0 Deg.

JT GRIP= 0.85 (H) (INPUT = 0.80)
JT METAL= 0.41 (A) (INPUT = 1.00)



JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	TRUSS DESC.	DRWG NO.
408187	T2G	2	1	GREEN PARK HOMES		
Tamarack Roof Truss, Burlington						



LUMBER		
N. L. G. A. RULES	SIZE	LUMBER
CHORDS		
X - B	2x4 DRY	No.2
A - F	2x4 DRY	No.2
F - J	2x4 DRY	No.2
J - L	2x4 DRY	No.2
M - P	2x4 DRY	No.2
X - P	2x4 DRY	No.2
P - M	2x4 DRY	No.2
ALL WEBS	2x3 DRY	No.2
DRY: SEASONED LUMBER.		
GABLE STUDS SPACED AT 2-0-0 OC.		

PLATES (tablets in inches)				
JT TYPE	PLATES	W	LEN	Y X
B TMVW+p	MT20	4.0	4.0	1.00 2.00
C, D, E, G, H, I, K				
C TMVW+w	MT20	2.0	4.0	
F TTW-m	MT20	4.0	4.0	
J TTW-m	MT20	4.0	4.0	
L TMVW+p	MT20	4.0	4.0	1.00 2.00
M BMV1+p	MT20	3.0	4.0	
N BMVW1-t	MT20	4.0	4.0	
O, Q, R, S, T, U, V				
O BMV1+w	MT20	2.0	4.0	
P BS-t	MT20	3.0	6.0	
W BMVW1-t	MT20	4.0	4.0	
X BMV1+p	MT20	3.0	4.0	

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

BEARINGS
THIS TRUSS DESIGNED FOR CONTINUOUS BEARINGS.
THIS TRUSS REQUIRES RIGID SHEATHING ON EXPOSED FACE.
BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINTS)

BRACING
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 8.25 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.
ALL PITCH BREAKS AND PERIMETER CORNER JOINTS MUST BE Laterally RESTRAINED.

LOADING
TOTAL LOAD CASES: (4)

CHORDS				WEBS			
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		FROM TO		FR-TO			
X-B	-247.0	0.0 0.0 0.03 (1)	7.81	T-F	-147.0	0.18 (1)	
A-B	0.38	-91.8 -91.8 0.12 (1)	10.00	O-J	-139.0	0.17 (1)	
B-C	-8.0	-91.8 -91.8 0.08 (1)	10.00	B-W	0.19	0.00 (1)	
C-D	-24.0	-91.8 -91.8 0.08 (1)	8.25	W-C	-249.0	0.05 (1)	
D-E	-5.0	-91.8 -91.8 0.05 (1)	10.00	V-D	-158.0	0.08 (1)	
E-F	-17.0	-91.8 -91.8 0.05 (1)	8.25	U-E	-207.0	0.15 (1)	
F-G	-3.0	-91.8 -91.8 0.05 (1)	10.00	N-L	-178.0	0.13 (1)	
G-H	-3.0	-91.8 -91.8 0.05 (1)	10.00	N-L	0.9	0.00 (1)	
H-I	-3.0	-91.8 -91.8 0.04 (1)	10.00	S-G	-211.0	0.25 (1)	
I-J	-3.0	-91.8 -91.8 0.04 (1)	10.00	R-H	-178.0	0.22 (1)	
J-K	-14.0	-91.8 -91.8 0.05 (1)	6.25	Q-I	-192.0	0.23 (1)	
K-L	0.14	-91.8 -91.8 0.04 (1)	10.00				
M-L	-30.0	0.0 0.0 0.02 (1)	7.81				
X-W	0.0	-18.5 -18.5 0.03 (4)	10.00				
W-V	0.11	-18.5 -18.5 0.03 (4)	10.00				
V-U	0.8	-18.5 -18.5 0.02 (4)	10.00				
U-T	0.5	-18.5 -18.5 0.02 (4)	10.00				
T-S	0.3	-18.5 -18.5 0.01 (4)	10.00				
S-R	0.3	-18.5 -18.5 0.02 (4)	10.00				
R-Q	0.3	-18.5 -18.5 0.02 (4)	10.00				
Q-P	0.3	-18.5 -18.5 0.01 (4)	10.00				
P-O	0.3	-18.5 -18.5 0.01 (4)	10.00				
O-N	0.5	-18.5 -18.5 0.01 (4)	10.00				
N-M	0.0	-18.5 -18.5 0.01 (4)	10.00				

TOTAL WEIGHT = 2 X 110 = 220 lb

DESIGN CRITERIA

SPECIFIED LOADS:
TOP CH. LL = 25.5 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 2.00/12 MINIMUM

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

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

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

CSI: TC=0.12/1.00 (A-B:1), BC=0.03/1.00 (V-W:4), W8=0.26/1.00 (G-S:1), S8=0.08/1.00 (B-C:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

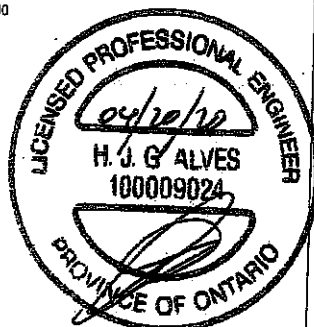
TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

NAIL VALUES
PLATE GRIP/DRY SHEAR SECTION
(PSI) (PL) (PL) (PL)
MAX MIN MAX MIN MAX MIN
MT20 618 354 1887 788 1987 1656

PLATE PLACEMENT TOL = 0.250 inches

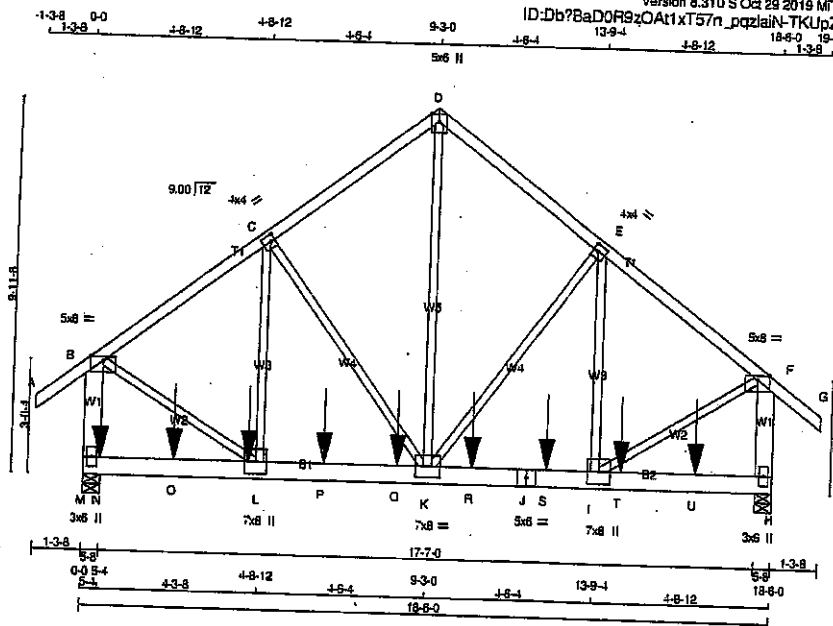
PLATE ROTATION TOL = 5.0 Deg.

JSI GRIP= 0.62 (J) (INPUT = 0.90)
JSI METAL= 0.13 (C) (INPUT = 1.00)



Structural component only

JOB NAME 408187	TRUSS NAME T3	QUANTITY 1	PLY 2	JOB DESC. GREEN PARK HOMES	DRWG NO.
Tamarack Roof Truss, Burlington					
TRUSS DESC.					



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

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

DRY: SEASONED LUMBER.

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

CHORDS #ROWS	SURFACE	LOAD (PLF)
TOP CHORDS: (0.122"x3") SPIRAL NAILS		
A-D	12	TOP
D-G	12	TOP
M-B	12	TOP
H-F	12	TOP
BOTTOM CHORDS: (0.122"x3") SPIRAL NAILS		
M-J	12	SIDE (183.1)
J-H	12	SIDE (0.0)
WEBS: (0.122"x3") SPIRAL NAILS		
C-L	6	SIDE (92.5)
2x3	6	

NAILS TO BE DRIVEN FROM ONE SIDE ONLY.

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

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

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

PLATES (tablets in inches)

JT TYPE	PLATES	W	LEN	Y	X
B TMWV-p	MT20	5.0	8.0	Edge	
C TMWV-t	MT20	4.0	4.0	2.00	1.50
D TTW-p	MT20	5.0	6.0	Edge	
E TMWV-t	MT20	4.0	4.0	2.00	1.50
F TMWV-p	MT20	5.0	8.0	Edge	
G BMV1-p	MT20	3.0	6.0		
H BMWV-t	MT20	7.0	8.0		
I BS-t	MT20	5.0	6.0		
J BMWVW-t	MT20	7.0	8.0		
L BMWVW-t	MT20	7.0	8.0		
M BMV1-p	MT20	3.0	6.0		

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

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

BEARINGS	FACTORED	MAXIMUM FACTORED	INPUT	REQD
JT GROSS REACTION				
VERT	DOWN	GROSS REACTION	BRG	BRG
M 6306	0	6306	0	5-8
H 5500	0	5500	0	5-8

UNFACTORED REACTIONS

1ST LOASE	MAX-MIN. COMPONENT REACTIONS						
JT COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL	
M 4449	2978	0	0	0	1471	0	0
H 3680	2600	0	0	0	1280	0	0

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.33 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	MEMB.	FORCE (LBS)	FACTORED	VERT. LOAD	LC1	MAX	CS1 (LC)	MAX. UNBRACED LENGTH	FR-TO	WEBS	MEMB.	FORCE (LBS)	FACTORED	MAX. CS1 (LC)
A-B	0	38	-91.8	-91.8	0.07	(1)	10.00	10.00	K-D	0	4104	0	51	(1)
B-C	-4484	0	-91.8	-91.8	0.27	(1)	4.33	10.00	K-E	-1029	0	60	(1)	
C-D	-3719	0	-91.8	-91.8	0.23	(1)	4.70	10.00	I-E	0	777	0	10	(1)
D-E	-3719	0	-91.8	-91.8	0.23	(1)	4.70	10.00	C-K	-1079	0	82	(1)	
E-F	-4430	0	-91.8	-91.8	0.27	(1)	4.35	10.00	L-C	0	835	0	10	(1)
F-G	0	38	-91.8	-91.8	0.07	(1)	10.00	10.00	B-L	0	4101	0	51	(1)
M-B	-4977	0	0.0	0.0	0.27	(1)	6.52	10.00	I-F	0	4070	0	50	(1)
H-F	-4941	0	0.0	0.0	0.27	(1)	6.53	10.00						
M-N	0	0	-18.5	-18.5	0.39	(1)	10.00	10.00						
N-O	0	0	-18.5	-18.5	0.39	(1)	10.00	10.00						
O-L	0	0	-18.5	-18.5	0.39	(1)	10.00	10.00						
L-P	0	3591	-18.5	-18.5	0.57	(1)	10.00	10.00						
P-Q	0	3591	-18.5	-18.5	0.57	(1)	10.00	10.00						
Q-K	0	3591	-18.5	-18.5	0.57	(1)	10.00	10.00						
K-R	0	3564	-18.5	-18.5	0.63	(1)	10.00	10.00						
R-J	0	3564	-18.5	-18.5	0.63	(1)	10.00	10.00						
J-S	0	3564	-18.5	-18.5	0.63	(1)	10.00	10.00						
S-I	0	3564	-18.5	-18.5	0.63	(1)	10.00	10.00						
I-T	0	0	-18.5	-18.5	0.41	(1)	10.00	10.00						
T-U	0	0	-18.5	-18.5	0.41	(1)	10.00	10.00						
U-H	0	0	-18.5	-18.5	0.41	(1)	10.00	10.00						

FACTORED CONCENTRATED LOADS (LBS)

JT	LOC.	LC1	MAX	FACE	DIR.	TOTAL	C1
N	4-5-4	-1056	-1056	FRONT	VERT	TOTAL	C1
O	5-4	-1062	-1062	FRONT	VERT	TOTAL	C1
P	6-4	-1056	-1056	FRONT	VERT	TOTAL	C1
Q	8-4	-1056	-1056	FRONT	VERT	TOTAL	C1
R	10-4	-1056	-1056	FRONT	VERT	TOTAL	C1
S	12-4	-1056	-1056	FRONT	VERT	TOTAL	C1
T	14-4	-1056	-1056	FRONT	VERT	TOTAL	C1
U	16-4	-1056	-1056	FRONT	VERT	TOTAL	C1

CONNECTION REQUIREMENTS

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

TOTAL WEIGHT = 2 X 109 = 219 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

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

THIS DESIGN COMPLIES WITH:

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

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

ALLOWABLE DEFL.(LL) = L/360 (0.62")
CALCULATED VERT. DEFL.(LL) = L/999 (0.06")
ALLOWABLE DEFL.(TL) = L/360 (0.62")
CALCULATED VERT. DEFL.(TL) = L/999 (0.10")

CSI: TC=0.27/1.00 (B-C:1), BC=0.63/1.00 (I-K:1), WB=0.62/1.00 (C-K:1), SSI=0.54/1.00 (H-I:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE HEELS OFF

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

NAIL VALUES

PLATE GRIP(DRY)	SHEAR	SECTION
(PSI)	(PLI)	(PLI)
MT20	518	354
	1667	788
	1967	1656

PLATE PLACEMENT TOL = 0.250 inches

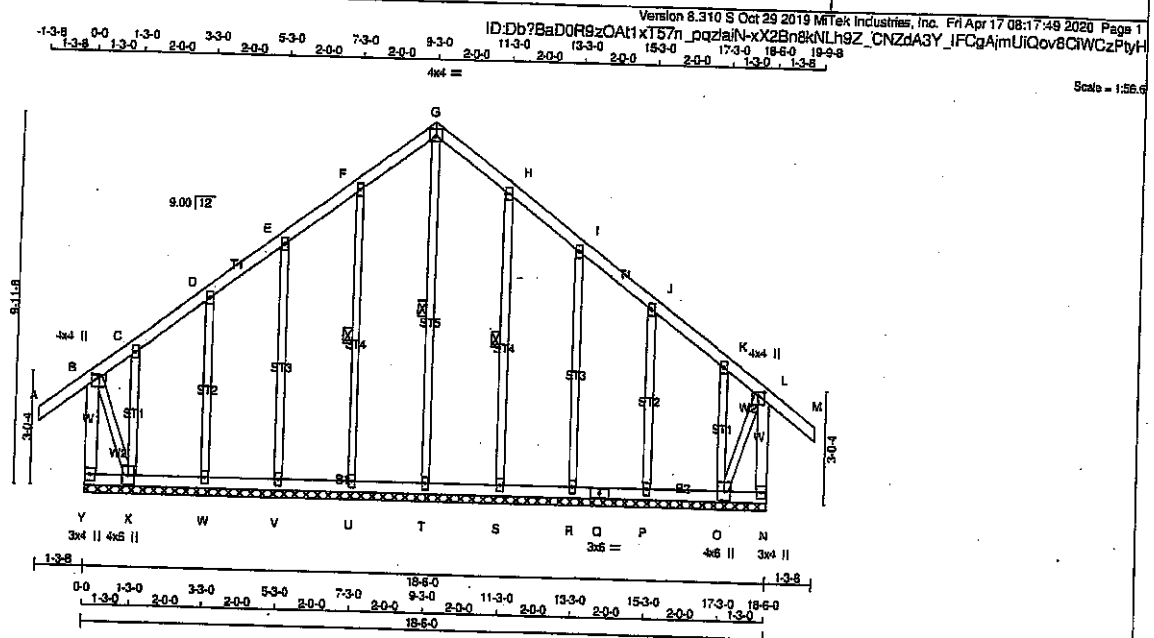
PLATE ROTATION TOL = 5.0 Deg.

JSI GRIP= 0.84 (K) (INPUT = 0.90)

JSI METAL= 0.57 (J) (INPUT = 1.00)

Structural component only
DWG# T 2006427

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
408187	T4G	1	1	GREEN PARK HOMES	
Tamarack Roof Truss, Burlington					



LUMBER	N. L. G. A. RULES	CHORDS	SIZE	DRY	LUMBER
A - G	2x4	DRY	No.2		
G - M	2x4	DRY	No.2		
Y - B	2x4	DRY	No.2		
N - L	2x4	DRY	No.2		
Y - Q	2x4	DRY	No.2		
Q - N	2x4	DRY	No.2		
ALL WEBS	2x3	DRY	No.2		
ALL GABLE WEBS	2x3	DRY	No.2		
DRY: SEASONED LUMBER.					

GABLE STUDS SPACED AT 2-0-0 OC.

PLATES (tablets in inches)

JT TYPE	PLATES	W	LEN	Y	X
B TMVW+p	MT20	4.0	4.0	1.00	2.00
C, D, E, F, H, I, J, K					
C TMVW+w	MT20	2.0	4.0		
G TTW+p	MT20	4.0	4.0	2.25	2.00
L TMVW+p	MT20	4.0	4.0	1.00	2.00
N BMV1+p	MT20	3.0	4.0		
O BMVW1+H	MT20	4.0	6.0		
P, R, S, T, U, V, W					
P BMV1+w	MT20	2.0	4.0		
Q BS+H	MT20	3.0	6.0		
X BMVW1+H	MT20	4.0	6.0		
Y BMV1+p	MT20	3.0	4.0		

DESCR.
SPF
SPF
SPF
SPF
SPF
SPF
SPF
SPF
SPF
SPF

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 G-T, F-U, H-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	MEMB.	MAX. FACTORED FORCE (LBS)	VERT. LOAD (PLF)	LC1 MAX (LC)	MAX. UNBRACED LENGTH	FR-TO	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. UNBRACED LENGTH	FR-TO
A-B		0:38	-91.8	-91.8	0.12 (1)	10.00	T-G	-171:0	0.11 (1)	
B-C		-37:0	-91.8	-91.8	0.12 (1)	6.25	U-F	-210:0	0.10 (1)	
C-D		0:11	-91.8	-91.8	0.05 (1)	10.00	V-E	-174:0	0.14 (1)	
D-E		0:7	-91.8	-91.8	0.05 (1)	10.00	W-D	-195:0	0.09 (1)	
E-F		0:14	-91.8	-91.8	0.06 (1)	10.00	X-C	-68:0	0.02 (1)	
F-G		0:3	-91.8	-91.8	0.05 (1)	10.00	S-H	-210:0	0.10 (1)	
G-H		0:3	-91.8	-91.8	0.05 (1)	10.00	R-I	-174:0	0.14 (1)	
H-I		0:14	-91.8	-91.8	0.06 (1)	10.00	P-J	-195:0	0.09 (1)	
I-J		0:7	-91.8	-91.8	0.05 (1)	10.00	O-K	-68:0	0.02 (1)	
J-K		0:11	-91.8	-91.8	0.05 (1)	10.00	B-X	-4:0	0.00 (1)	
K-L		-37:0	-91.8	-91.8	0.12 (1)	6.25	O-L	-4:0	0.00 (1)	
L-M		0:38	-91.8	-91.8	0.12 (1)	10.00				
Y-B		-240:0	0.0	0.0	0.04 (1)	7.81				
N-L		-240:0	0.0	0.0	0.04 (1)	7.81				
Y-X		0:0	-18.5	-18.5	0.01 (4)	10.00				
X-W		3:0	-18.5	-18.5	0.02 (4)	10.00				
W-V		7:0	-18.5	-18.5	0.02 (4)	10.00				
V-U		9:0	-18.5	-18.5	0.01 (4)	10.00				
U-T		-11:0	-18.5	-18.5	0.01 (4)	6.25				
T-S		-11:0	-18.5	-18.5	0.01 (4)	10.00				
S-R		9:0	-18.5	-18.5	0.01 (4)	6.25				
R-Q		-7:0	-18.5	-18.5	0.02 (4)	10.00				
Q-P		-7:0	-18.5	-18.5	0.02 (4)	10.00				
P-O		-3:0	-18.5	-18.5	0.02 (4)	10.00				
O-N		0:0	-18.5	-18.5	0.01 (4)	10.00				

TOTAL WEIGHT = 106 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, NBCC 2010, NBCC 2015

THIS DESIGN COMPLIES WITH:

- PART 9 OF CBC 2018, OBC 2012, ABC 2019
- PART 9 OF OBC 2012 (2019 AMENDMENT)
- CSA 086-09, CSA 085-14
- TPIC 2011, TPIC 2014

DESIGN ASSUMPTIONS

- OVERHANG NOT TO BE ALTERED OR CUT OFF.

155% OF 31.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 25.6 P.S.F. SPECIFIED ROOF LIVE LOAD

CSI: TC=0.12/1.00 (L-M:1), BC=0.02/1.00 (P-R:4), WS=0.14/1.00 (I-R:1), SSI=0.08/1.00 (L-M:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

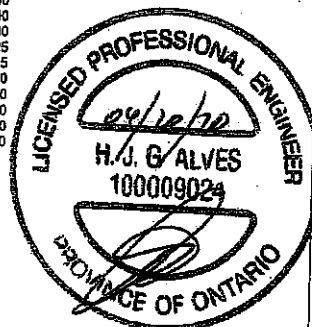
NAIL VALUES

PLATE GRIP(DRY)	SHEAR	SECTION
(PSI)	(PL)	(PL)
MAX MIN	MAX MIN	MAX MIN
MT20	618 354	1567 788

PLATE PLACEMENT TOL = 0.250 inches

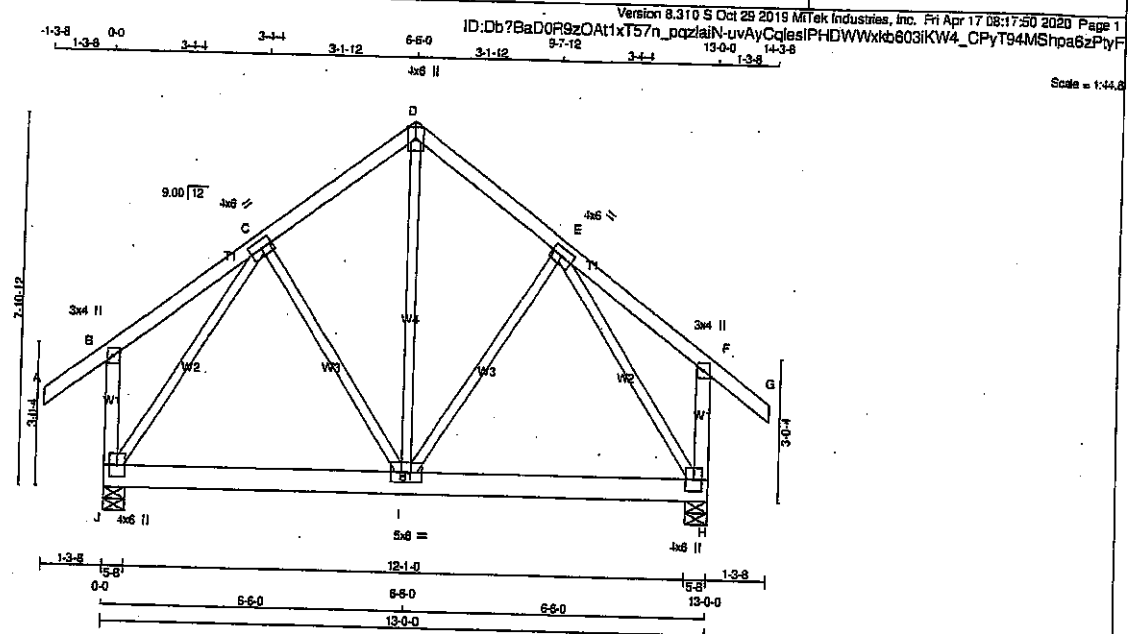
PLATE ROTATION TOL = 5.0 Deg.

JSI GRIP= 0.49 (L) (INPUT = 0.90)
JSI METAL= 0.11 (H) (INPUT = 1.00)



Structural component only

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
408187	T5	3	1	GREEN PARK HOMES	
Tamarack Road Truss, Burlington					



LUMBER	N.L.G.A. RULES	CHORDS	SIZE	DRY	LUMBER
A - D	2x4	DRY	No.2		
D - G	2x4	DRY	No.2		
J - B	2x4	DRY	No.2		
H - F	2x4	DRY	No.2		
J - H	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	TMVp	MT20	3.0	4.0		
C	TMVW-t	MT20	4.0	6.0		
D	TTWp	MT20	4.0	6.0		
E	TMVW-t	MT20	4.0	6.0		
F	TMVp	MT20	3.0	4.0		
H	BMVW1+p	MT20	4.0	6.0		
I	BMVW1-t	MT20	5.0	8.0		
J	BMVW1+p	MT20	4.0	6.0		

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

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

FACTORED	MAXIMUM FACTORED	INPUT	REQD
GROSS REACTION	GROSS REACTION	BRG	BRG
JT VERT HORZ	JT VERT HORZ	IN-SX	IN-SX
J 1493 0	1493 0	5-8	5-8
H 1493 0	1493 0	5-8	5-8

UNFACTORED REACTIONS	1ST LCASE	MAX MIN COMPONENT REACTIONS
JT COMBINED	SNOW	LIVE
J 1114 403 0	0 0	0 0
H 1114 403 0	0 0	0 0

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

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

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS	MAX. FACTORED	FACTORED	MAX. FACTORED	WEBS	MAX. FACTORED
MEMB.	FORCE (LBS)	VERT. LOAD LC1	MAX. (PLF)	MEMB.	FORCE (LBS)
FR-TO		FROM TO	CS1 (LC)	FR-TO	CS1 (LC)
A-B	0 38	-91.8 -91.8	0.16 (1)	I-D	0 775
B-C	0 19	-91.8 -91.8	0.18 (1)	I-E	0 207
C-D	-858 0	-91.8 -91.8	0.19 (1)	C-I	0 207
D-E	-858 0	-91.8 -91.8	0.19 (1)	J-C	-1134 0
E-F	0 19	-91.8 -91.8	0.18 (1)	E-H	-1134 0
F-G	0 38	-91.8 -91.8	0.18 (1)		
J-B	-245 0	0.0 0.0	0.04 (1)		
H-F	-245 0	0.0 0.0	0.04 (1)		
J-I	0 616	-118.5 -118.5	0.84 (4)		
I-H	0 616	-118.5 -118.5	0.84 (4)		

TOTAL WEIGHT = 3 X 75 = 226 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 = 33.0 PSF

SPACING = 24.0 IN. C/C

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

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

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

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

ALLOWABLE DEFL.(LL) = L/360 (0.43")
CALCULATED VERT. DEFL.(LL) = L/999 (0.01")
ALLOWABLE DEFL.(TL) = L/360 (0.43")
CALCULATED VERT. DEFL.(TL) = L/999 (0.07")

CS1: TC=0.19/1.00 (C-D:1), BC=0.84/1.00 (I-J:4), WB=0.70/1.00 (C-J:1), SS=0.55/1.00 (I-J:4)

DOL LUMBER=0.88 NAIL=0.88 LS BEND=1.00
COMP=1.00 SHEAR=1.00 TENS=1.00

COMPANION LIVE LOAD FACTOR = 1.00

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

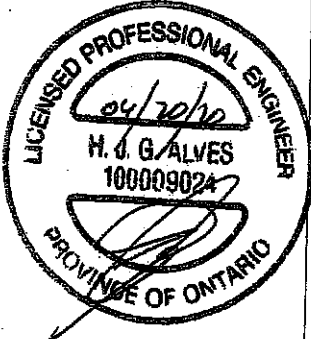
NAIL VALUES
PLATE GRIP(DRY) SHEAR SECTION (PSI) (PLI) (PLI)
MAX MIN MAX MIN MAX MIN
MT20 618 354 1667 788 1987 1658

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.76 (E) (INPUT = 0.90)

JSI METAL= 0.32 (H) (INPUT = 1.00)

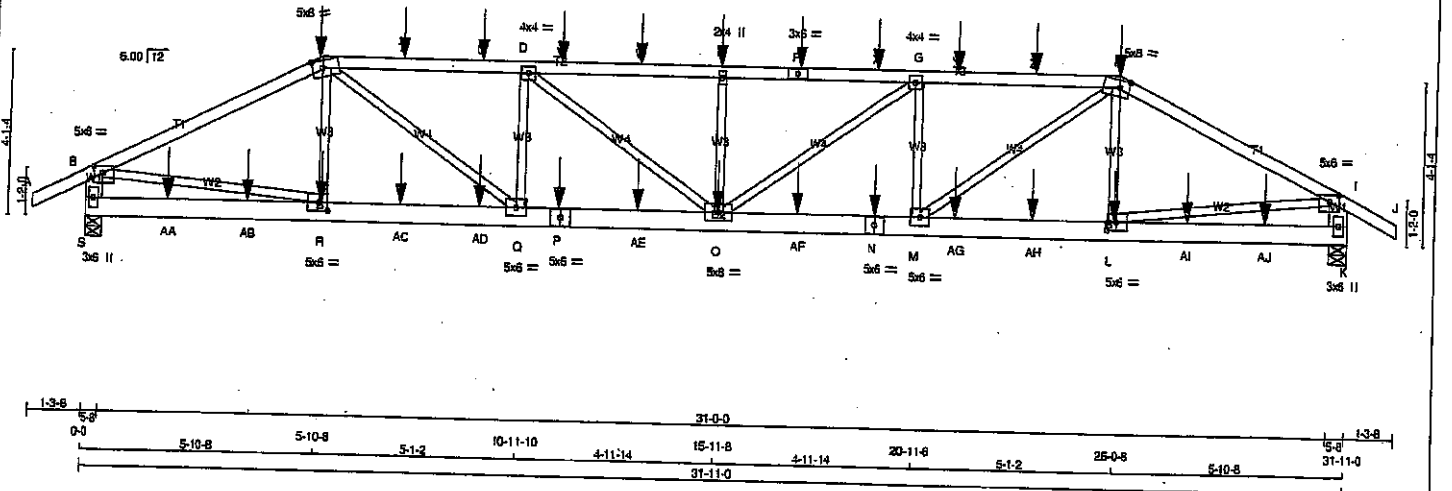


Structural component only

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	TRUSS DESC.	DRWG NO.
408187	T21	1	2	GREEN PARK HOMES		

Tamarack Roof Truss, Burlington

Version 8.310 S Oct 29 2019 Mitek Industries, Inc. Fri Apr 17 08:17:52 2020 Page 1
ID:1ebEM4Ce92xn94Zv?kFPzmBR3-qlicWnuOv?TogKs?8U97PnUn_yQRInqmAwf_zPtyD
31-11-0 31-11-0 31-11-0
Scale = 1:52.6



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

ALL WEBS 2x3 DRY No.2
EXCEPT

DRY: SEASONED LUMBER.

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

CHORDS #ROWS SURFACE SPACING (IN) LOAD (PLF)

TOP CHORDS : (0.122"x3") SPIRAL NAILS

A-C 1 12 SIDE(61.0)

C-F 1 12 SIDE(61.0)

F-H 1 12 SIDE(61.0)

H-J 1 12 SIDE(61.0)

S-B 2 12 TOP

K-I 2 12 TOP

BOTTOM CHORDS : (0.122"x3") SPIRAL NAILS

S-P 2 12 SIDE(183.1)

P-N 2 12 SIDE(183.1)

N-K 2 12 SIDE(183.1)

WEBS : (0.122"x3") SPIRAL NAILS

R-C 1 6 SIDE(0.5)

L-H 1 6 SIDE(0.5)

2x3 1 6 SIDE(0.5)

NAILS TO BE DRIVEN FROM ONE SIDE ONLY.

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

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

SIDE - PLF SHOWN IS THE EQUIVALENT UDL APPLIED TO ONE SIDE THAT THE CORRESPONDING NAILING PATTERN SHALL BE CAPABLE OF TRANSFERING.

REMAINING PLF MUST BE APPLIED ON THE OPPOSITE SIDE OR ON THE TOP.

PLATES (table is in inches)

JT TYPE PLATES W LEN Y X

B TMWV-p MT20 5.0 8.0 2.00 2.75

C TTWW-m MT20 5.0 8.0 2.25 3.00

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

BEARINGS

FACTORED GROSS REACTION MAXIMUM FACTORED INPUT RECD

JT GROSS REACTION DOWN HORZ UPLIFT IN-SX IN-SX

S 3049 0 3049 0 0 5-8 5-8

K 3047 0 3047 0 0 5-8 5-8

UNFACTORED REACTIONS

1ST LCASE MAX. MIN. COMPONENT REACTIONS

JT COMBINED SNOW LIVE PERM. LIVE WIND DEAD SOIL

S 2156 1415 0 0 0 0 0 741 0 0 0

K 2155 1415 0 0 0 0 0 740 0 0 0

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.40 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 VERT. LOAD L1 MAX. UNBRACED LENGTH FR-TO

FR-TO A-B 0 28 -91.8 -91.8 0.07 (1) 10.00 R-C -342 / 39 0.04 (1)

B-C -4568 0 -91.8 -91.8 0.48 (1) 4.07 C-Q 0 2360 0.29 (1)

C-T -5980 0 -91.8 -91.8 0.49 (1) 3.57 D-O -1232 0 0.16 (1)

T-U -5980 0 -91.8 -91.8 0.49 (1) 3.57 D-O 0 679 0.08 (1)

U-D -5980 0 -91.8 -91.8 0.49 (1) 3.57 D-E -680 0 0.09 (1)

D-V -6524 0 -91.8 -91.8 0.52 (1) 3.40 O-G 0 683 0.08 (1)

V-W -6524 0 -91.8 -91.8 0.52 (1) 3.40 M-G -1232 0 0.16 (1)

W-E -6524 0 -91.8 -91.8 0.52 (1) 3.40 M-H 0 2360 0.29 (1)

E-F -6524 0 -91.8 -91.8 0.52 (1) 3.40 L-H -342 39 0.04 (1)

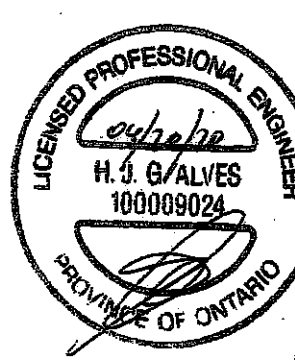
F-X -6524 0 -91.8 -91.8 0.52 (1) 3.40 B-R 0 4118 0.51 (1)

X-G -6524 0 -91.8 -91.8 0.52 (1) 3.40 L-I 0 4115 0.51 (1)

G-Y -5977 0 -91.8 -91.8 0.49 (1) 3.58

Y-Z -5977 0 -91.8 -91.8 0.49 (1) 3.58

Z-H -5977 0 -91.8 -91.8 0.49 (1) 3.58



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 2.00/12 MINIMUM

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

THIS DESIGN COMPLIES WITH:

- PART 9 OF NBCC 2010, OBC 2012, ABC 2019

- PART 9 OF OBC 2012 (2019 AMENDMENT)

- CSA 086-09, CSA 088-14

- TPIC 2011, TPIC 2014

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

ALLOWABLE DEFL.(LL) = L/360 (1.05")

CALCULATED VERT. DEFL.(LL) = L/999 (0.18")

ALLOWABLE DEFL.(TL) = L/360 (1.05")

CALCULATED VERT. DEFL.(TL) = L/999 (0.33")

CSK: TC=0.52/1.00 (D-E:1), BC=0.45/1.00 (Q-O:1),

WB=0.51/1.00 (B-R:1), SS=0.19/1.00 (G-H: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 618 354 1867 788 1987 1656

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

SSI GRIP= 0.50 (I) (INPUT = 0.90)

SSI METAL= 0.56 (N) (INPUT = 1.00)

Structural component only

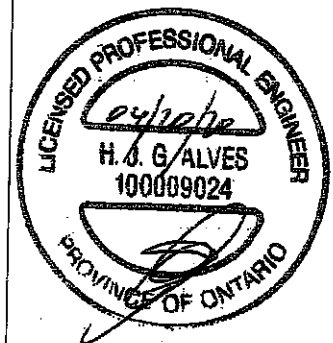
JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	TRUSS DESC.	DRWG NO.
408187	T21	1	2	GREEN PARK HOMES		
Tamarack Roof Truss, Burlington						

Version 8.310 S Oct 29 2019 MiTek Industries, Inc. Fri Apr 17 08:17:52 2020 Page 2
 ID:1eb5M4Ce92xm94Zv7ikFPzMBR3-qlicWnuOvf?TqqKs?8U97PnUn yQFInNmAwf zPtyD

FACTORED CONCENTRATED LOADS (LBS)									
JT	LOC.	LC1	MAX-	MAX+	FACE	DIR.	TYPE	HEEL	CONN.
H	26-0-8	-489	-489	---	FRONT	VERT	TOTAL	---	C1
L	25-11-12	-26	-26	---	FRONT	VERT	TOTAL	---	C1
N	19-11-4	-26	-26	---	FRONT	VERT	TOTAL	---	C1
O	15-11-4	-26	-26	---	FRONT	VERT	TOTAL	---	C1
P	11-11-4	-26	-26	---	FRONT	VERT	TOTAL	---	C1
R	5-11-4	-26	-26	---	FRONT	VERT	TOTAL	---	C1
T	7-11-4	-110	-110	---	FRONT	VERT	TOTAL	---	C1
U	9-11-4	-110	-110	---	FRONT	VERT	TOTAL	---	C1
V	11-11-4	-110	-110	---	FRONT	VERT	TOTAL	---	C1
W	13-11-4	-110	-110	---	FRONT	VERT	TOTAL	---	C1
X	15-11-4	-110	-110	---	FRONT	VERT	TOTAL	---	C1
Y	21-11-4	-110	-110	---	FRONT	VERT	TOTAL	---	C1
Z	23-11-4	-110	-110	---	FRONT	VERT	TOTAL	---	C1
AA	2-0-12	-26	-26	---	FRONT	VERT	TOTAL	---	C1
AB	4-0-12	-26	-26	---	FRONT	VERT	TOTAL	---	C1
AC	7-11-4	-26	-26	---	FRONT	VERT	TOTAL	---	C1
AD	9-11-4	-26	-26	---	FRONT	VERT	TOTAL	---	C1
AE	13-11-4	-26	-26	---	FRONT	VERT	TOTAL	---	C1
AF	17-11-4	-26	-26	---	FRONT	VERT	TOTAL	---	C1
AG	21-11-4	-26	-26	---	FRONT	VERT	TOTAL	---	C1
AH	23-11-4	-26	-26	---	FRONT	VERT	TOTAL	---	C1
AI	27-10-4	-26	-26	---	FRONT	VERT	TOTAL	---	C1
AJ	29-10-4	-26	-26	---	FRONT	VERT	TOTAL	---	C1

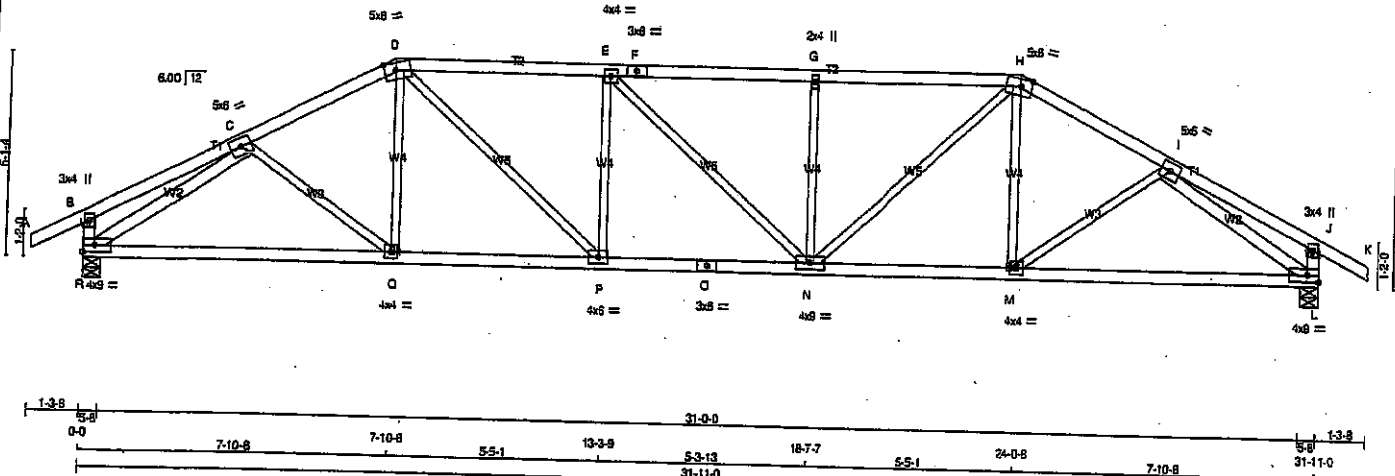
CONNECTION REQUIREMENTS

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



JOB NAME 408130	TRUSS NAME T22	QUANTITY 2	PLY 1	JOB DESC. GREEN PARK HOMES	DRWG NO.
Tamarack Roof Truss, Burlington				TRUSS DESC.	

Version 8.310.8 Oct 29 2019 Mitek Industries, Inc. Wed Apr 15 18:45:48 2020 Page 1
 ID:1ebEM4C692xm94Zv7kFPizmBR3-0VWMw7N2usK7lgJolQzrtnd6_VghHXtyvIKzQQi1
 1-3-8 0-0 4-0-8 4-0-8 3-10-0 7-10-8 5-5-1 13-3-8 5-3-13 18-7-7 5-5-1 24-0-8 3-10-0 27-10-8 4-0-8 31-11-0 33-8-8 1-3-8
 Scale = 1:52.8



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
H - K	2x4	DRY	No.2
R - B	2x4	DRY	No.2
L - J	2x4	DRY	No.2
R - O	2x4	DRY	No.2
O - L	2x4	DRY	No.2
ALL WEBS EXCEPT	2x3	DRY	No.2
R - C	2x4	DRY	No.2
I - L	2x4	DRY	No.2

DRY: SEASONED LUMBER.

PLATES (table is in inches)				
JT	TYPE	PLATES	W	LEN Y X
B	TMV+p	MT20	3.0	4.0
C	TMVW-1	MT20	5.0	6.0
D	TTVW-m	MT20	5.0	8.0
E	TMVW-1	MT20	4.0	4.0
F	TS-1	MT20	3.0	6.0
G	TMVW-m	MT20	2.0	4.0
H	TTVW-m	MT20	5.0	8.0
I	TMVW-1	MT20	5.0	6.0
J	TMV+p	MT20	3.0	4.0
L	BMVW-1	MT20	4.0	9.0
M	BMVW-1	MT20	4.0	4.0
N	BMVW-1	MT20	4.0	9.0
O	BS-1	MT20	3.0	6.0
P	BMVW-1	MT20	4.0	6.0
Q	BMVW-1	MT20	4.0	4.0
R	BMVW-1	MT20	4.0	9.0

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

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

FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG		REQD BRG	
VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX	IN-SX
1884	0	1884	0	0	5-8	5-8	5-8
1884	0	1884	0	0	5-8	5-8	5-8

UNFACTORED REACTIONS

1ST CASE		MAX/MIN COMPONENT REACTIONS					
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
R	1330	885 / 0	0 / 0	0 / 0	0 / 0	444 / 0	0 / 0
L	1330	885 / 0	0 / 0	0 / 0	0 / 0	444 / 0	0 / 0

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.81 FT.
 MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR RIGID CEILING DIRECTLY APPLIED.

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (LBS)	MAX. UNBRACED LENGTH (FT)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. UNBRACED LENGTH (FT)	MAX. FACTORED FORCE (LBS)
FR-TO				FR-TO			
A-B	0 / 28	-91.8	-91.8 0.12 (1)	10.00	C-Q	0 / 74	0.03 (4)
B-C	0 / 17	-91.8	-91.8 0.20 (1)	10.00	D-O	0 / 133	0.04 (4)
C-D	-2469 / 0	-91.8	-91.8 0.30 (1)	4.12	D-P	0 / 933	0.21 (1)
D-E	-2893 / 0	-91.8	-91.8 0.54 (1)	3.61	E-E	-534 / 0	0.21 (1)
E-F	-2891 / 0	-91.8	-91.8 0.53 (1)	3.61	E-N	-2 / 0	0.00 (1)
F-G	-2891 / 0	-91.8	-91.8 0.53 (1)	3.61	N-G	-533 / 0	0.21 (1)
G-H	-2891 / 0	-91.8	-91.8 0.53 (1)	3.61	N-H	0 / 931	0.21 (1)
H-I	-2469 / 0	-91.8	-91.8 0.30 (1)	4.12	M-H	0 / 134	0.04 (4)
I-J	0 / 17	-91.8	-91.8 0.20 (1)	10.00	M-I	0 / 74	0.03 (4)
J-K	0 / 28	-91.8	-91.8 0.12 (1)	10.00	R-C	-2895 / 0	0.74 (1)
R-B	-289 / 0	0.0	0.0 0.03 (1)	7.81	L-L	-2567 / 0	0.74 (1)
L-J	-289 / 0	0.0	0.0 0.03 (1)	7.81			
R-O	0 / 2167	-18.5	-18.5 0.49 (1)	10.00			
Q-P	0 / 2194	-18.5	-18.5 0.48 (1)	10.00			
P-O	0 / 2893	-18.5	-18.5 0.53 (1)	10.00			
O-N	0 / 2893	-18.5	-18.5 0.53 (1)	10.00			
N-M	0 / 2194	-18.5	-18.5 0.49 (1)	10.00			
M-L	0 / 2168	-18.5	-18.5 0.49 (1)	10.00			

TOTAL WEIGHT = 2 X 130 = 260 lb

DESIGN CRITERIA

SPECIFIED LOADS:

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

SPACING = 24.0 IN. C/C

LOADING IN FLAT SECTION BASED ON A SLOPE OF 2.00/12 MINIMUM

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

THIS DESIGN COMPLIES WITH:

- PART 9 OF CBC 2010, CBC 2012, ABC 2019
- PART 9 OF CBC 2012 (2019 AMENDMENT)
- CSA 089-09, CSA 085-14
- TPIC 2017, 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 (1.05")
 CALCULATED VERT. DEFL.(LL) = L/999 (0.15")
 ALLOWABLE DEFL.(TL) = L/360 (1.05")
 CALCULATED VERT. DEFL.(TL) = L/999 (0.29")

CSI: TC=0.54/1.00 (D-E-1), BC=0.53/1.00 (N-P-1),
 WB=0.74/1.00 (L-1), SS=0.23/1.00 (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.

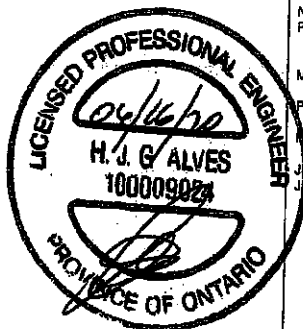
NAIL VALUES

PLATE	GRIP(DRY)	SHEAR	SECTION
(PSI)	(PLI)	(PLI)	
MT20	618	354	1857 788 1987 1856

PLATE PLACEMENT TOL = 0.250 inches

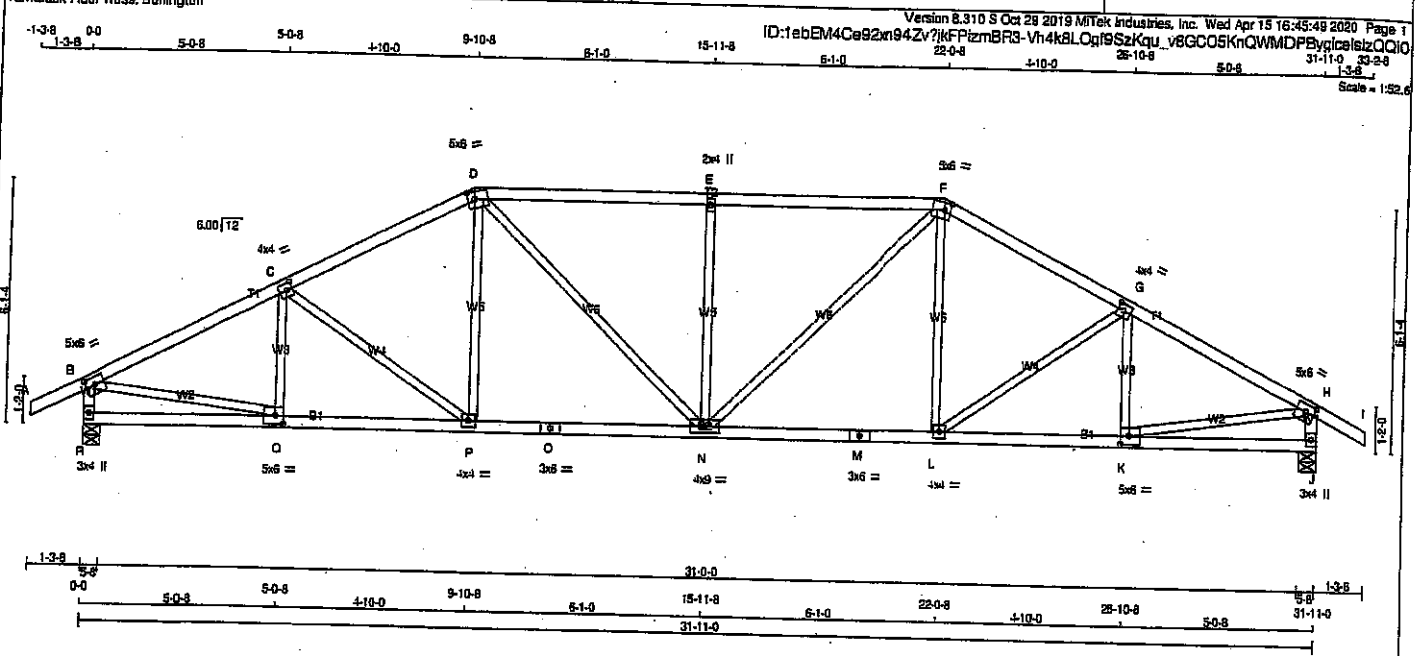
PLATE ROTATION TOL = 5.0 Deg.

GRIP= 0.84 (O) (INPUT = 0.90)
 METAL= 0.94 (O) (INPUT = 1.00)



Structural component only

JOB NAME 408130	TRUSS NAME T23	QUANTITY 2	PLY 1	JOB DESC. GREEN PARK HOMES	TRUSS DESC.	DRWG NO.
Tamarack Roof Truss, Burlington						



LUMBER	N. L. G. A. RULES	CHORDS	SIZE	LUMBER
A - D	2x4	DRY	No.2	
D - F	2x4	DRY	No.2	
F - I	2x4	DRY	No.2	
R - B	2x4	DRY	No.2	
J - H	2x4	DRY	No.2	
R - O	2x4	DRY	No.2	
O - M	2x4	DRY	No.2	
M - J	2x4	DRY	No.2	

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

PLATES (table in inches)							
JT	TYPE	PLATES	W	LEN	Y	X	
B	TM/VW-t	MT20	5.0	6.0	2.25	2.75	
C	TM/VW-t	MT20	4.0	4.0	2.00	1.75	
D	TTWV-m	MT20	5.0	6.0	2.25	2.00	
E	TM/VW-t	MT20	2.0	4.0			
F	TTWV-m	MT20	5.0	6.0	2.25	2.00	
G	TM/VW-t	MT20	4.0	4.0	2.00	1.75	
H	TM/VW-t	MT20	5.0	6.0	2.25	2.75	
J	BMV1+p	MT20	3.0	4.0			
K	BM/VW-t	MT20	5.0	6.0	2.50	2.50	
L	BM/VW-t	MT20	4.0	4.0			
M	BS-t	MT20	3.0	6.0			
N	BM/VWV-t	MT20	4.0	6.0			
O	BS-t	MT20	3.0	6.0			
P	BM/VW-t	MT20	4.0	4.0			
Q	BM/VW-t	MT20	5.0	6.0	2.50	2.50	
R	BMV1+p	MT20	3.0	4.0			

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

JT	FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG	RECORD BRG
	VERT	HORZ	DOWN	HORZ		
R	1884	0	1884	0	5-8	5-8
J	1884	0	1884	0	5-8	5-8

JT	1ST LCASE		MAX/MIN. COMPONENT REACTIONS				
	COMBINED	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
R	1330	886 / 0	0 / 0	0 / 0	0 / 0	444 / 0	0 / 0
J	1330	886 / 0	0 / 0	0 / 0	0 / 0	444 / 0	0 / 0

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

BRACING
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.82 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR RIGID CEILING DIRECTLY APPLIED.

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. CS (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. CS (LC)	LENGTH
FR-TO		FROM TO		FR-TO			
A-B	0 / 28	-91.8 -91.8	0.12 (1)	10.00	C-C	-301 / 0	0.07 (1)
B-C	-2538 / 0	-91.8 -91.8	0.37 (1)	4.02	C-P	-284 / 0	0.16 (1)
C-D	-2342 / 0	-91.8 -91.8	0.35 (1)	4.17	P-D	0 / 257	0.06 (1)
D-E	-2493 / 0	-91.8 -91.8	0.54 (1)	3.82	D-N	0 / 575	0.13 (1)
E-F	-2493 / 0	-91.8 -91.8	0.54 (1)	3.82	N-E	-685 / 0	0.40 (1)
F-G	-2342 / 0	-91.8 -91.8	0.35 (1)	4.17	E-F	0 / 575	0.13 (1)
G-H	-2538 / 0	-91.8 -91.8	0.37 (1)	4.02	L-F	0 / 257	0.08 (1)
H-I	0 / 28	-91.8 -91.8	0.12 (1)	10.00	L-G	-284 / 0	0.16 (1)
I-J	-1941 / 0	0.0 0.0	0.19 (1)	6.17	K-G	-301 / 0	0.07 (1)
J-K	-1841 / 0	0.0 0.0	0.19 (1)	6.17	G-Q	0 / 2323	0.52 (1)
R-Q	0 / 0	-18.5 -18.5	0.10 (4)	10.00	K-H	0 / 2323	0.52 (1)
Q-P	0 / 2290	-18.5 -18.5	0.43 (1)	10.00			
P-O	0 / 2077	-18.5 -18.5	0.40 (1)	10.00			
O-N	0 / 2077	-18.5 -18.5	0.40 (1)	10.00			
N-M	0 / 2077	-18.5 -18.5	0.40 (1)	10.00			
M-L	0 / 2077	-18.5 -18.5	0.40 (1)	10.00			
L-K	0 / 2290	-18.5 -18.5	0.43 (1)	10.00			
K-J	0 / 0	-18.5 -18.5	0.10 (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. OC

LOADING IN FLAT SECTION BASED ON A SLOPE OF 2.00/12 MINIMUM

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

THIS DESIGN COMPLIES WITH:
- PART 9 OF CBC 2010, CBC 2012, ABC 2019
- PART 9 OF CBC 2012 (2019 AMENDMENT)
- CSA 086-08, CSA 086-14
- TPIC 2011, TPIC 2014

155 % 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 (1.06")
CALCULATED VERT. DEFL.(LL) = L/999 (0.13")
ALLOWABLE DEFL.(TL) = L/360 (1.06")
CALCULATED VERT. DEFL.(TL) = L/999 (0.24")
CSI: TC=0.54/1.00 (D-E:1), BC=0.43/1.00 (K-L:1), WB=0.52/1.00 (H-K:1), SS=0.27/1.00 (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

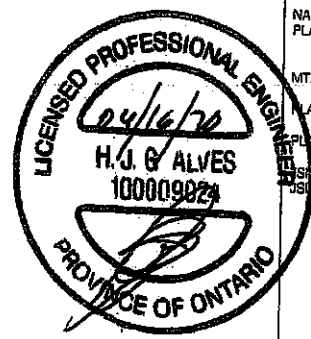
TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

NAIL VALUES	PLATE GRIP(DRY)	SHEAR (PSI)	SECTION (PL)
MT20	518	354	1687
	788	1987	1656

PLATE PLACEMENT TOL = 0.250 inches

PLATE ROTATION TOL = 5.0 Deg.

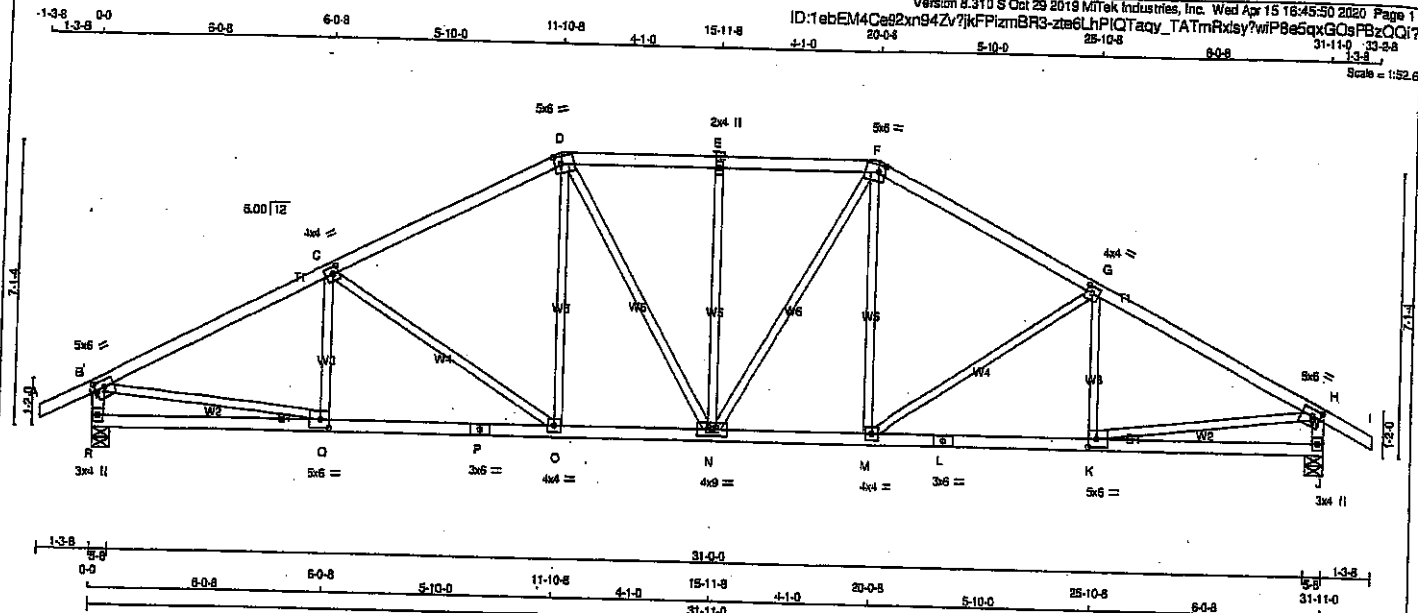
GRIP=0.90 (B) (INPUT = 0.90)
METAL=0.67 (B) (INPUT = 1.00)



JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	TRUSS DESC.	DRWG NO.
408130	T24	2	1	GREEN PARK HOMES		

Tamarack Roof Truss, Burlington

Version 8.310 S Oct 29 2019 Mitek Industries, Inc. Wed Apr 15 16:45:50 2020 Page 1
ID:1ebEM4Ceb2xn94Zv7jkFPlzmBR3-zte6LhPQITaqy_TATmRxdy?wip8e5qxGQsPBzCQI?7
31-11-0 33-28
3-3-4
Scale = 1:52.6



LUMBER	N. L. G. A. RULES	CHORDS	SIZE	LUMBER	DESCR.
A - D	2x4	DRY	No.2	SPF	
D - F	2x4	DRY	No.2	SPF	
F - I	2x4	DRY	No.2	SPF	
I - H	2x4	DRY	No.2	SPF	
H - B	2x4	DRY	No.2	SPF	
B - P	2x4	DRY	No.2	SPF	
P - L	2x4	DRY	No.2	SPF	
L - J	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
A	TMVW-t	MT20	5.0	6.0	2.00	2.75
B	TMVW-t	MT20	4.0	4.0	2.00	1.75
C	TTWW-m	MT20	5.0	6.0	2.25	2.00
D	TMVW-t	MT20	2.0	4.0		
E	TTWW-m	MT20	5.0	6.0	2.25	2.00
F	TMVW-t	MT20	4.0	4.0	2.00	1.75
G	TMVW-t	MT20	5.0	6.0	2.00	2.75
H	BMV1-p	MT20	3.0	4.0		
I	BMVW-t	MT20	5.0	6.0	2.50	2.50
J	BS-t	MT20	3.0	6.0		
K	BMVW-t	MT20	4.0	4.0		
L	BMVW-t	MT20	4.0	4.0		
M	BMVW-t	MT20	4.0	4.0		
N	BMVW-t	MT20	4.0	4.0		
O	BS-t	MT20	3.0	6.0		
P	BMVW-t	MT20	5.0	6.0	2.50	2.50
Q	BMV1-p	MT20	3.0	4.0		

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

BEARINGS										
		FACTORED		MAXIMUM FACTORED			INPUT		RECORD	
		GROSS REACTION		GROSS REACTION			BRG		BRG	
JT		VERT.	HORZ	DOWN	HORZ	UPLIFT	IN-SX		IN-SX	
R		1884	0	1884	0	0	5-8		5-8	
J		1884	0	1884	0	0	5-8		5-8	

UNFACTORED REACTIONS							
1ST LCASE		MAX./MIN. COMPONENT REACTIONS					
JT	COMBINED	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SO
R	1330	886 / 0	0 / 0	0 / 0	0 / 0	444 / 0	0
J	1330	886 / 0	0 / 0	0 / 0	0 / 0	444 / 0	0

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

BRACING
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.79 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR RIGID CEILING DIRECTLY APPLIED.

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

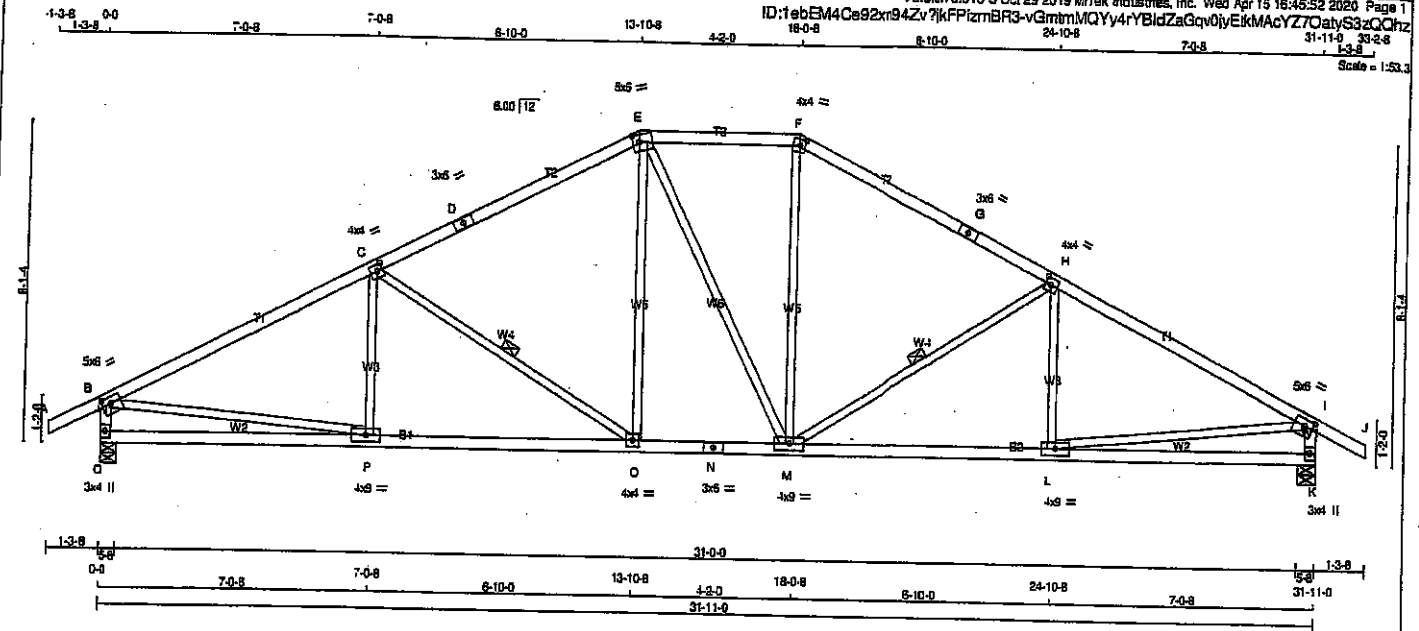
LOADING
TOTAL LOAD CASES: (4)

CHORDS				W E B S			
MAX. FACTORED		FACTORED		MAX. FACTORED		MAX. FACTORED	
MEMB.	FORCE (LBS)	VERT. LOAD (LBS)	CSH (LC)	MAX. UNBRACED LENGTH	MEMB.	FORCE (LBS)	MAX. CSH (LC)
FR-TO		FROM-TO			FR-TO		
A-B	0 / 28	-91.8	-91.8 0.12 (1)	10.00	Q-C	-212 / 29	0.06 (1)
B-C	-2579 / 0	-91.8	-91.8 0.55 (1)	3.79	C-D	-480 / 0	0.46 (1)
C-D	-2188 / 0	-91.8	-91.8 0.49 (1)	4.11	D-E	0 / 362	0.08 (1)
D-E	-2088 / 0	-91.8	-91.8 0.24 (1)	4.49	E-F	0 / 296	0.07 (1)
E-F	-2088 / 0	-91.8	-91.8 0.49 (1)	4.49	F-G	-451 / 0	0.39 (1)
F-G	-2188 / 0	-91.8	-91.8 0.49 (1)	4.11	G-H	0 / 296	0.07 (1)
G-H	-2579 / 0	-91.8	-91.8 0.55 (1)	3.79	H-I	0 / 362	0.08 (1)
H-I	0 / 28	-91.8	-91.8 0.12 (1)	10.00	I-J	-480 / 0	0.46 (1)
I-J	-1836 / 0	0.0	0.0 0.19 (1)	6.18	K-H	-212 / 29	0.06 (1)
J-K	-1836 / 0	0.0	0.0 0.19 (1)	6.18	B-Q	0 / 2355	0.53 (1)
K-H					K-H	0 / 2355	0.53 (1)
L-Q	0 / 0	-18.5	-18.5 0.15 (4)	10.00			
M-P	0 / 2332	-18.5	-18.5 0.44 (1)	10.00			
N-O	0 / 2332	-18.5	-18.5 0.44 (1)	10.00			
P-N	0 / 1935	-18.5	-18.5 0.37 (1)	10.00			
Q-M	0 / 1935	-18.5	-18.5 0.37 (1)	10.00			
R-L	0 / 2332	-18.5	-18.5 0.44 (1)	10.00			
S-K	0 / 2332	-18.5	-18.5 0.44 (1)	10.00			
T-J	0 / 0	-18.5	-18.5 0.15 (4)	10.00			

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	TRUSS DESC.	DRWG NO.
408130	T25	2	1	GREEN PARK HOMES		

Tamarack Roof Truss, Burlington

Version 8.310 S Oct 29 2019 Mitek Industries, Inc. Wed Apr 15 16:45:52 2020 Page 1
ID:1ebEM4Ce92m94Zv7kFPfzmBR3-vGmnmMQYy4rYBldZaGqv0jyEkMAcYZ7Z0atyS3zQChz



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

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMVW-t	MT20	5.0	6.0	2.00	2.75
C	TMVW-t	MT20	4.0	4.0	2.00	1.75
D	TS-t	MT20	3.0	6.0		
E	TTW-m	MT20	5.0	6.0	2.25	2.00
F	TTW-m	MT20	4.0	4.0	2.00	1.75
G	TS-t	MT20	3.0	6.0		
H	TMVW-t	MT20	4.0	4.0	2.00	1.75
I	TMVW-t	MT20	5.0	6.0	2.00	2.75
J	BMV-t	MT20	3.0	4.0		
K	BMV-t	MT20	4.0	9.0		
L	BMVW-t	MT20	4.0	9.0		
M	BS-t	MT20	3.0	6.0		
N	BMVW-t	MT20	4.0	4.0		
O	BMVW-t	MT20	4.0	4.0		
P	BMVW-t	MT20	4.0	9.0		
Q	BMV-t	MT20	3.0	4.0		

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

BEARINGS

JT	FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	RECORD BRG
Q	1884	0	1884	0
K	1884	0	1884	0

UNFACTORED REACTIONS

JT	1ST CASE	MAX. MIN. COMPONENT REACTIONS	DEAD	SOIL
Q	1330	886/0	0/0	0/0
K	1330	886/0	0/0	0/0

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.47 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-Q, H-M.

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PL)	LC1 MAX CSl (LC1)	MAX. UNBRACED LENGTH (FT)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX CSl (LC1)
FR-TO		FROM	TO		FR-TO		
A-B	0.28	-91.8	-91.8 0.12 (1)	10.00	P-C	-140	71
B-C	-2587.0	-91.8	-91.8 0.78 (1)	3.47	C-O	-581	0
C-D	-2013.0	-91.8	-91.8 0.68 (1)	3.97	O-E	0.458	0.10 (1)
D-E	-2013.0	-91.8	-91.8 0.68 (1)	3.97	E-M	0	2
E-F	-1775.0	-91.8	-91.8 0.24 (1)	4.79	M-F	0	460
F-G	-2013.0	-91.8	-91.8 0.68 (1)	3.97	M-H	-580	0
G-H	-2013.0	-91.8	-91.8 0.68 (1)	3.97	L-H	-142	70
H-I	-2587.0	-91.8	-91.8 0.78 (1)	3.47	P-I	0	2362
I-J	0.28	-91.8	-91.8 0.12 (1)	10.00	L-P	0	2361
J-K	-1830.0	0.0	0.0 0.18 (1)	6.19			
K-L	-1830.0	0.0	0.0 0.18 (1)	6.19			
Q-P	0.0	-18.5	-18.5 0.22 (4)	10.00			
P-O	0.2944	-18.5	-18.5 0.48 (1)	10.00			
O-N	0.1774	-18.5	-18.5 0.35 (1)	10.00			
N-M	0.1774	-18.5	-18.5 0.35 (1)	10.00			
M-L	0.2344	-18.5	-18.5 0.48 (1)	10.00			
L-K	0.0	-18.5	-18.5 0.22 (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 N.C.C.

LOADING IN FLAT SECTION BASED ON A SLOPE OF 2.00/12 MINIMUM

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

THIS DESIGN COMPLIES WITH:

- PART 9 OF CBC 2010, CBC 2012, ABC 2019
- PART 9 OF CBC 2012 (2019 AMENDMENT)
- CSA 086-08, CSA 086-14
- TPIC 2011, TPIC 2014

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

ALLOWABLE DEFL.(LL) = L/360 (1.06")
CALCULATED VERT. DEFL.(LL) = 1/999 (0.12")
ALLOWABLE DEFL.(TL) = L/360 (1.06")
CALCULATED VERT. DEFL.(TL) = 1/999 (0.24")

CSI: TC=0.78/1.00 (B-C:1), BC=0.48/1.00 (O-P:1), WB=0.53/1.00 (B-P:1), SS=0.28/1.00 (H-I:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

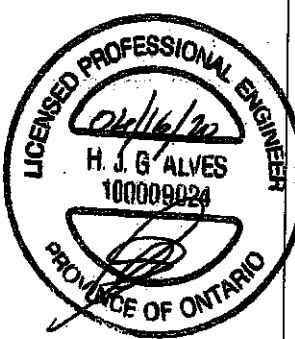
TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

NAIL VALUES
PLATE GRIP(DRY) SHEAR SECTION
(PSI) (PLU) (PLU)
MAX MIN MAX MIN MAX MIN
MT20 618 354 1657 788 1987 1656

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

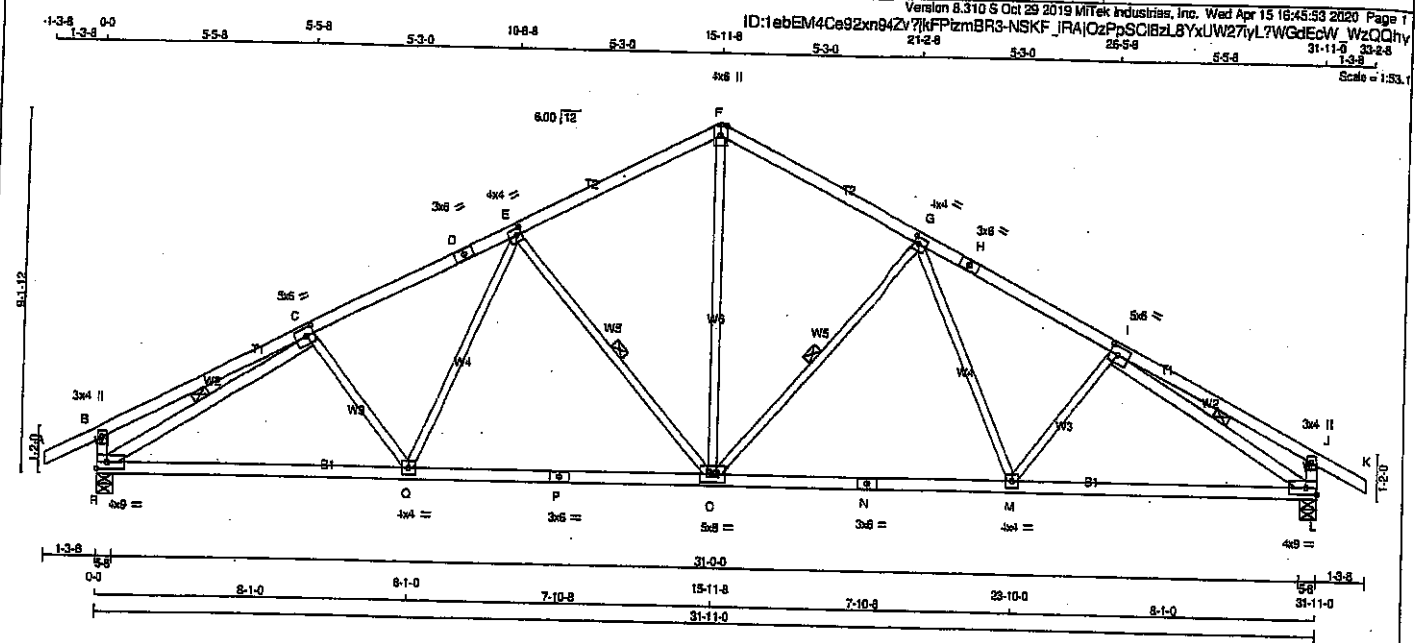
GRIP=0.88 (B) (INPUT = 0.90)
METAL=0.70 (B) (INPUT = 1.00)



Structural component only
DRAWN BY: [signature]

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	TRUSS DESC.	DRWG NO.
408130	T26	3	1	GREEN PARK HOMES		

Tamarack Roof Truss, Burlington



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
H - K	2x4	DRY	No.2
R - B	2x4	DRY	No.2
L - J	2x4	DRY	No.2
R - P	2x4	DRY	No.2
P - N	2x4	DRY	No.2
N - L	2x4	DRY	No.2
ALL WEBS	2x3	DRY	No.2
EXCEPT			
R - C	2x4	DRY	No.2
I - L	2x4	DRY	No.2

DRY: SEASONED LUMBER.

PLATES (Table is in inches)				
JT TYPE	PLATES	W	LEN	Y X
B TMV+p	MT20	3.0	4.0	
C TMWW-t	MT20	5.0	6.0	2.50 2.50
D TS-t	MT20	3.0	6.0	
E TMWW-t	MT20	4.0	4.0	2.00 1.50
F TTW+p	MT20	4.0	6.0	Edge
G TMWW-t	MT20	4.0	4.0	2.00 1.50
H TS-t	MT20	3.0	6.0	
I TMWW-t	MT20	5.0	6.0	2.50 2.50
J TMV+p	MT20	3.0	4.0	
L BMWW-t	MT20	4.0	8.0	Edge
M BMWW-t	MT20	4.0	4.0	
N BS-t	MT20	3.0	6.0	
O BMWW-t	MT20	5.0	8.0	
P BS-t	MT20	3.0	8.0	
Q BMWW-t	MT20	4.0	4.0	
R BMWW-t	MT20	4.0	9.0	Edge

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

DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER							
BEARINGS							
	FACTORED	MAXIMUM FACTORED	INPUT	RECORD			
	GROSS REACTION	GROSS REACTION	BRG	BRG			
JT	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX
R	1884	0	1884	0	0	5-8	5-8
L	1884	0	1884	0	0	5-8	5-8
UNFACTORED REACTIONS							
JT	1ST CASE	MAX/MIN	COMPONENT REACTIONS				
	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
R	1330	886 / 0	0 / 0	0 / 0	0 / 0	444 / 0	0 / 0
L	1330	886 / 0	0 / 0	0 / 0	0 / 0	444 / 0	0 / 0

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.11 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-O, E-Q, C-R, I-L

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

LOADING			
TOTAL LOAD CASES: (4)			
CHORDS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. UNBRACED LENGTH (FT)
FR-TO			
A-B	0 / 28	-91.8	-91.8 0.12 (1)
B-C	0 / 20	-91.8	-91.8 0.33 (1)
C-D	-2428 / 0	-91.8	-91.8 0.37 (1)
D-E	-2428 / 0	-91.8	-91.8 0.37 (1)
E-F	-1808 / 0	-91.8	-91.8 0.34 (1)
F-G	-1808 / 0	-91.8	-91.8 0.34 (1)
G-H	-2428 / 0	-91.8	-91.8 0.37 (1)
H-I	-2428 / 0	-91.8	-91.8 0.37 (1)
I-J	0 / 20	-91.8	-91.8 0.33 (1)
J-K	0 / 28	-91.8	-91.8 0.12 (1)
R-B	-325 / 0	0.0	0.0 0.03 (1)
L-J	-325 / 0	0.0	0.0 0.03 (1)
R-Q	0 / 2268	-18.5	-18.5 0.51 (1)
Q-P	0 / 2051	-18.5	-18.5 0.48 (1)
P-O	0 / 2051	-18.5	-18.5 0.48 (1)
O-N	0 / 2051	-18.5	-18.5 0.48 (1)
N-M	0 / 2051	-18.5	-18.5 0.48 (1)
M-L	0 / 2268	-18.5	-18.5 0.51 (1)
WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	MAX. UNBRACED LENGTH (FT)	FR-TO
O-F	0 / 1211	0.27 (1)	
Q-G	-701 / 0	0.32 (1)	
G-M	0 / 312	0.07 (1)	
M-I	-158 / 21	0.05 (1)	
E-O	-701 / 0	0.32 (1)	
Q-E	0 / 312	0.07 (1)	
C-Q	-158 / 21	0.05 (1)	
R-C	-2717 / 0	0.55 (1)	
I-L	-2717 / 0	0.55 (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. OC	

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

THIS DESIGN COMPLIES WITH:

- PART 9 OF CBC 2010, CBC 2012, ABC 2019
- PART 9 OF CBC 2012 (2019 AMENDMENT)
- CSA B88-09, CSA B88-14
- TPIC 2011, TPIC 2014

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

ALLOWABLE DEFL.(LL) = L/360 (1.06")

CALCULATED VERT. DEFL.(LL) = L/999 (0.11")

ALLOWABLE DEFL.(TL) = L/360 (1.06")

CALCULATED VERT. DEFL.(TL) = L/999 (0.24")

CSI: TC=0.37/1.00 (G-C1), BC=0.51/1.00 (L-M1), WB=0.55/1.00 (I-L1), SS=0.20/1.00 (I-J1)

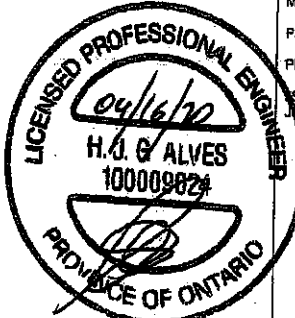
DOL LUMBER=1.00 NAIL=1.00 LB BEND=1.10 COMP=1.10 SHEAR=1.10 TENS=1.10

COMPANION LIVE LOAD FACTOR = 1.00

AUTOBOLVE HEELS OFF

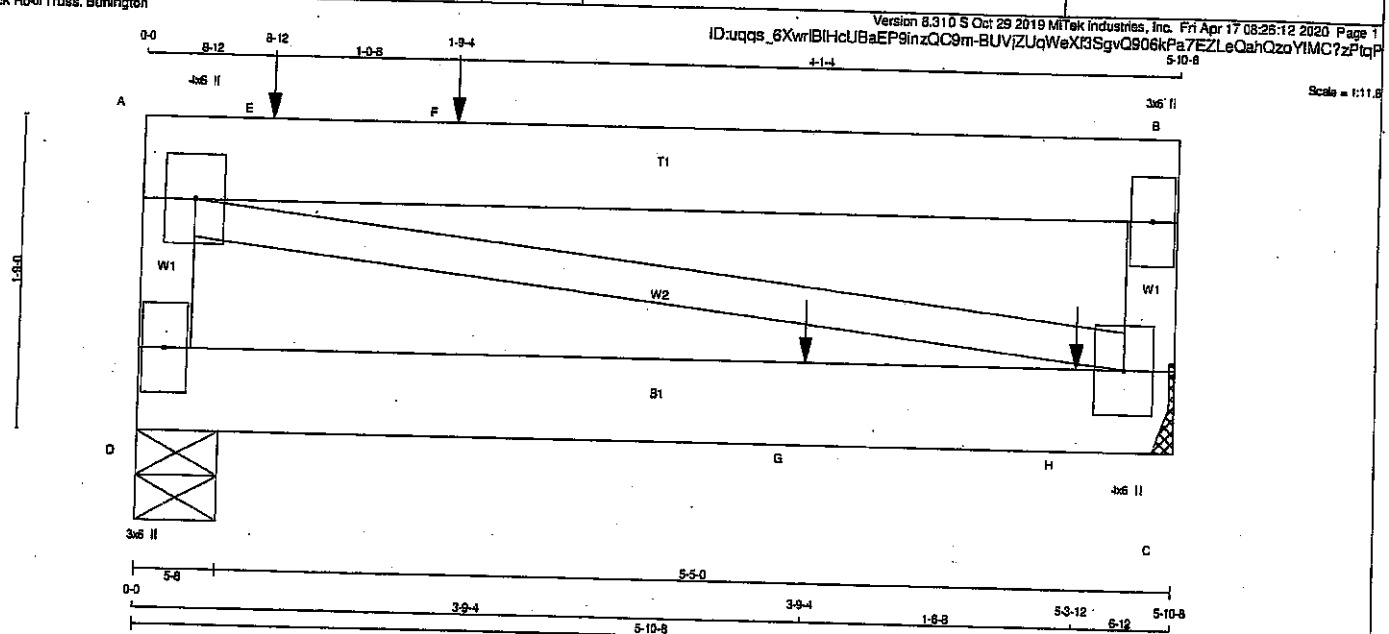
TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

NAIL VALUES			
PLATE GRIP(DRY)	SHEAR (PS)	SECTION (PLI)	MAX MIN
MT20	618 354 1667 788 1987 1656		
PLATE PLACEMENT TOL. = 0.250 inches			
PLATE ROTATION TOL. = 5.0 Deg.			
SI GRIP= 0.85 (I) (INPUT = 0.80)			
SI METAL= 0.70 (P) (INPUT = 1.00)			



Structural component only

JOB NAME 408188	TRUSS NAME T30	QUANTITY 1	PLY 2	JOB DESC. GREEN PARK HOMES	DRWG NO.
Tamarack Roof Truss, Burlington				TRUSS DESC.	



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

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

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

NAILS TO BE DRIVEN FROM ONE SIDE ONLY.

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

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

SIDE - PLF SHOWN IS THE EQUIVALENT UDL APPLIED TO ONE SIDE THAT THE CORRESPONDING NAILING PATTERN SHALL BE CAPABLE OF 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
B	TMV+p	MT20	3.0	6.0
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

FACTORED		MAXIMUM FACTORED		INPUT		RECORD	
JT	GROSS REACTION	JT	GROSS REACTION	BRG	BRG	IN-SX	IN-SX
D	1419 0	D	1419 0	5-8	5-8		
C	1668 0	C	1668 0	MECHANICAL			

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

UNFACTORED REACTIONS

JT	1ST CASE	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
D	999	880.0	0.0	0.0	0.0	319.0	0.0
C	1173	807.0	0.0	0.0	0.0	388.0	0.0

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

BRACING

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

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. CSI (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. CSI (LC)	
FR-TO		FROM TO		FR-TO			
D-A	-1054.0	0.0 0.0 0.05 (1)	7.81	A-C	0.0	0.00 (1)	
A-E	0.0	-91.8 -91.8 0.50 (1)	10.00				
E-F	0.0	-91.8 -91.8 0.50 (1)	10.00				
F-B	0.0	-91.8 -91.8 0.50 (1)	10.00				
C-B	-555.0	0.0 0.0 0.03 (1)	7.81				
D-G	0.0	-18.5 -18.5 0.42 (1)	10.00				
G-H	0.0	-18.5 -18.5 0.42 (1)	10.00				
H-C	0.0	-18.5 -18.5 0.42 (1)	10.00				

FACTORED CONCENTRATED LOADS (LBS)

JT	LOC.	LC1	MAX.	MAX+	FACE	DIR.	TYPE	HEEL	CONN.
E	8-12	-211	-211		TOP	VERT	TOTAL		C1
F	1-9-4	-860	-860		TOP	VERT	TOTAL		C1
G	3-9-4	-882	-882		FRONT	VERT	TOTAL		C1
H	5-3-12	-886	-886		FRONT	VERT	TOTAL		C1

CONNECTION REQUIREMENTS

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

TOTAL WEIGHT = 2 X 27 = 55 lb

DESIGN CRITERIA

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

SPACING = 24.0 IN. C/C

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

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

THIS DESIGN COMPLIES WITH:

- PART 9 OF CBC 2018, CBC 2012, ABC 2019
- PART 9 OF CBC 2012 (2019 AMENDMENT)
- CSA 086-09, CSA 086-14
- TPIC 2011, 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 DEF. (LL) = L/360 (0.20")
CALCULATED VERT. DEF. (LL) = L/999 (0.05")
ALLOWABLE DEF. (TL) = L/360 (0.20")
CALCULATED VERT. DEF. (TL) = L/732 (0.10")

CSI: TC=0.50/1.00 (A-B:1), BC=0.42/1.00 (C-D:1), WB=0.09/1.00 (A-C:1), SS=0.34/1.00 (C-D:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

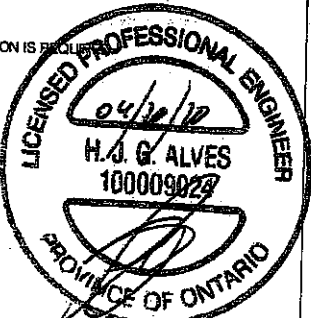
NAIL VALUES
PLATE GRIP (DRY) SHEAR SECTION (PSI) (PLI) (PLI)
MAX MIN MAX MIN MAX MIN
MT20 518 354 1667 788 1987 1655

PLATE PLACEMENT TOL = 0.250 inches

PLATE ROTATION TOL = 5.0 Deg.

JSI GRIP = 0.14 (A) (INPUT = 0.80)

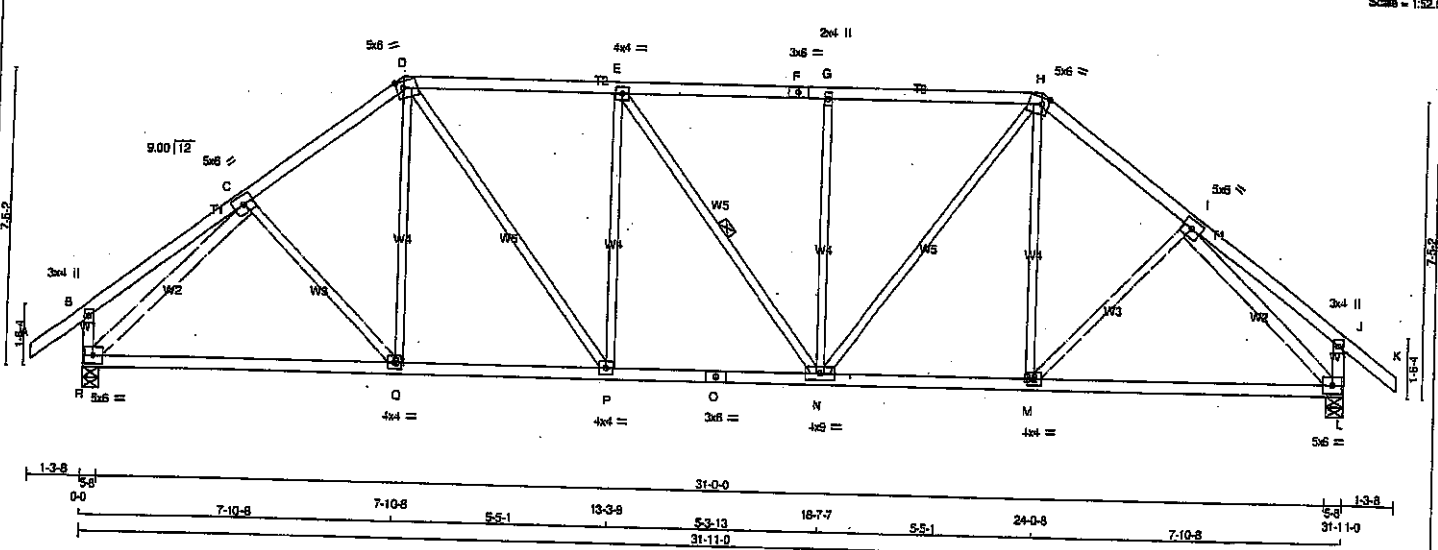
JSI METAL = 0.07 (D) (INPUT = 1.00)



Structural component only

JOB NAME 408188	TRUSS NAME T32	QUANTITY 2	PLY 1	JOB DESC. GREEN PARK HOMES	TRUSS DESC.	DRWG NO.
Tamarack Pool Truss, Burlington						

Version 8.310 5 Oct 29 2019 MITek Industries, Inc. Fri Apr 17 08:28:13 2020 Page 1
 ID: uqas_6XwriBIHcUBaEP9inzQC9m-th3dmqr9Pmv3pTcjdzyfP5k7EJys71C1wkSzPmO
 1-3-8 0-0 1-3-8 1-3-8 3-10-0 7-10-8 5-5-1 13-3-9 5-3-13 18-7-7 5-5-1 24-0-8 3-10-0 27-10-8 4-0-8 31-1-0 33-2-8
 Scale = 1:52.5



LUMBER			
N. L. G. A. RULES			
CHORDS	SIZE	DRY	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
R - S	2x4	DRY	No.2
L - J	2x4	DRY	No.2
R - O	2x4	DRY	No.2
O - L	2x4	DRY	No.2
ALL WEBS	2x3	DRY	No.2
EXCEPT			
R - C	2x4	DRY	No.2
I - L	2x4	DRY	No.2

DRY: SEASONED LUMBER.

PLATES (table is in inches)					
JT	TYPE	PLATES	W	LEN	Y X
B	TMV+p	MT20	3.0	4.0	
C	TMVW-t	MT20	5.0	6.0	
D	TTWW-m	MT20	5.0	6.0	2.00 2.00
E	TMVW-t	MT20	4.0	4.0	
F	TS-t	MT20	3.0	6.0	
G	TMVW-w	MT20	2.0	4.0	
H	TTWW-m	MT20	5.0	6.0	2.00 2.00
I	TTWW-t	MT20	5.0	6.0	
J	TMV+p	MT20	3.0	4.0	
L	BMVW-t	MT20	5.0	6.0	
M, P, Q					
M	BMVW-t	MT20	4.0	4.0	
N	BMVW-t	MT20	4.0	9.0	
O	BS-t	MT20	3.0	6.0	
R	BMVW-t	MT20	5.0	6.0	

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

BEARINGS			
JT	FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG
R	1886 0	1886 0	5-8
L	1886 0	1886 0	5-8

UNFACTORED REACTIONS			
JT	1ST CASE	MAX. MIN. COMPONENT REACTIONS	
R	1331	887.0	0.0
L	1331	887.0	0.0

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

BRACING
 TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.34 FT.
 MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

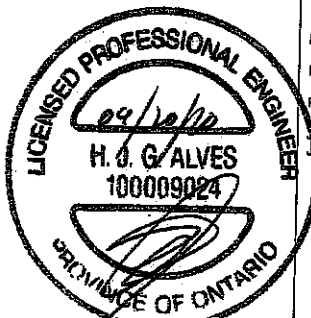
ALL PITCH BREAKS AND PERIMETER CORNER JOINTS MUST BE LATERALLY RESTRAINED.

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

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

LOADING
 TOTAL LOAD CASES: (4)

CHORDS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. FACTORED VERT. LOAD (LBS)
A-B	0.38	-91.8	-91.8
B-C	0.24	-91.8	-91.8
C-D	-1878.0	-91.8	-91.8
D-E	-1853.0	-91.8	-91.8
E-F	-1851.0	-91.8	-91.8
F-G	-1951.0	-91.8	-91.8
G-H	-1851.0	-91.8	-91.8
H-I	-1878.0	-91.8	-91.8
I-J	0.24	-91.8	-91.8
J-K	0.38	-91.8	-91.8
R-B	-265.0	0.0	0.0
L-J	-265.0	0.0	0.0
R-Q	0.1479	-18.5	-18.5
Q-P	0.1482	-18.5	-18.5
P-O	0.1953	-18.5	-18.5
O-N	0.1953	-18.5	-18.5
N-M	0.1482	-18.5	-18.5
M-L	0.1479	-18.5	-18.5



TOTAL WEIGHT = 2 X 148 = 296 lb

DESIGN CRITERIA

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

SPACING = 24.0 IN. C/C

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

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

THIS DESIGN COMPLIES WITH:
 - PART 9 OF BCBC 2018, OBC 2012, ABC 2019
 - PART 9 OF OBC 2012 (2019 AMENDMENT)
 - CSA D88-09, CSA D85-14
 - TPIC 2011, TPIC 2014

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

ALLOWABLE DEFL.(LL) = L/360 (1.06")
 CALCULATED VERT. DEFL.(LL) = 1/999 (0.08")
 ALLOWABLE DEFL.(TL) = L/360 (1.06")
 CALCULATED VERT. DEFL.(TL) = 1/999 (0.16")

CS: TC=0.45/1.00 (D-E:1), BC=0.38/1.00 (M-N:1), WB=0.82/1.00 (I-L:1), SS=0.23/1.00 (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 618 354 1667 788 1987 1656

PLATE PLACEMENT TOL. = 0.250 inches

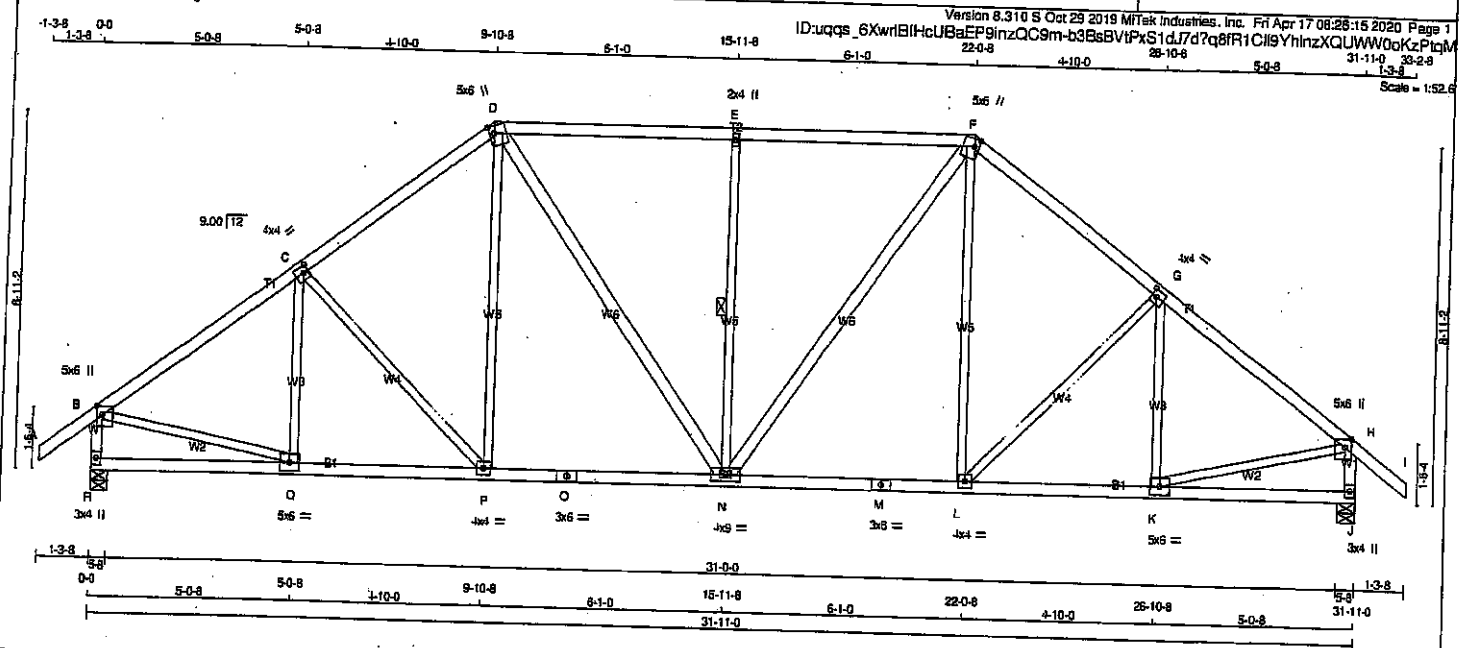
PLATE ROTATION TOL. = 5.0 Deg.

SI GRIP= 0.89 (I) (INPUT = 0.90)

SI METAL= 0.66 (O) (INPUT = 1.00)

Structural component only
 DWG# T-2006442

JOB NAME: 408188	TRUSS NAME: T33	QUANTITY: 2	PLY: 1	JOB DESC. GREEN PARK HOMES	TRUSS DESC.	DRWG NO.
Tamarack Roof Truss, Burlington						



LUMBER			
N. L. G. A. RULES	SIZE	DRY	LUMBER
A - D	2x4	DRY	No.2
D - F	2x4	DRY	No.2
F - B	2x4	DRY	No.2
J - H	2x4	DRY	No.2
R - O	2x4	DRY	No.2
O - M	2x4	DRY	No.2
M - J	2x4	DRY	No.2
ALL WEBS	2x3	DRY	No.2
EXCEPT			
D - N	2x4	DRY	No.2
N - F	2x4	DRY	No.2

DRY: SEASONED LUMBER.

PLATES (table in inches)

JT TYPE	PLATES	W	LEN	Y	X
B TMVW+p	MT20	5.0	6.0	2.50	2.00
C TMVW-t	MT20	4.0	4.0	2.00	1.50
D TTWW+m	MT20	5.0	6.0	2.25	1.50
E TMVW-w	MT20	2.0	4.0		
F TTWW+m	MT20	5.0	6.0	2.25	1.50
G TMVW-t	MT20	4.0	4.0	2.00	1.50
H TMVW+p	MT20	5.0	6.0	2.50	2.00
J BMV1+p	MT20	3.0	4.0		
K BMVW-t	MT20	5.0	6.0		
L BMVW-t	MT20	4.0	4.0		
M BS-t	MT20	3.0	6.0		
N BMVW-t	MT20	4.0	9.0		
O BS-t	MT20	3.0	6.0		
P BMVW-t	MT20	4.0	4.0		
Q BMVW-t	MT20	5.0	6.0		
R BMV1+p	MT20	3.0	4.0		

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

BEARINGS		FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	RECORD BRG
JT	VERT	VERT	DOWN	IN-SX	IN-SX
R	1886	0	1886	0	5-8
J	1886	0	1886	0	5-8

UNFACTORED REACTIONS

JT	1ST LCASE	MAX. MIN. COMPONENT REACTIONS	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
R	1331	887.0	0.0	0.0	0.0	0.0	444.0	0.0
J	1331	887.0	0.0	0.0	0.0	0.0	444.0	0.0

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.53 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.

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

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS		FACTORED		WEBS		FACTORED	
MEMB.	FORCE (LBS)	VERT. LOAD	LC1 MAX. (PLF)	MEMB.	FORCE (LBS)	MAX. (LBS)	MAX. (LC)
FR-TO		FROM	TO	FR-TO			
A-B	0.38	-91.8	-91.8 0.12 (1)	Q-C	-274	0	0.11 (1)
B-C	-1920.0	-91.8	-91.8 0.35 (1)	C-P	-236	0	0.22 (1)
C-D	-1780.0	-91.8	-91.8 0.33 (1)	P-D	0.270	0.06 (1)	
D-E	-1880.0	-91.8	-91.8 0.48 (1)	D-N	0.488	0.08 (1)	
E-F	-1780.0	-91.8	-91.8 0.48 (1)	N-E	-684.0	0.35 (1)	
F-G	-1780.0	-91.8	-91.8 0.33 (1)	N-F	0.488	0.08 (1)	
G-H	-1920.0	-91.8	-91.8 0.35 (1)	L-F	0.270	0.06 (1)	
H-I	0.38	-91.8	-91.8 0.12 (1)	L-G	-236	0	0.22 (1)
R-B	-1845	0.0	0.0 0.19 (1)	K-G	-274	0	0.11 (1)
J-H	-1845	0.0	0.0 0.19 (1)	B-Q	0.1604	0.36 (1)	
R-O	0.0	-18.5	-18.5 0.10 (4)	K-H	0.1604	0.36 (1)	
Q-P	0.1581	-18.5	-18.5 0.31 (1)				
P-O	0.1398	-18.5	-18.5 0.30 (1)				
O-N	0.1398	-18.5	-18.5 0.30 (1)				
N-M	0.1398	-18.5	-18.5 0.30 (1)				
M-L	0.1398	-18.5	-18.5 0.30 (1)				
L-K	0.1581	-18.5	-18.5 0.31 (1)				
K-J	0.0	-18.5	-18.5 0.10 (4)				

TOTAL WEIGHT = 2 X 155 = 310 lb

DESIGN CRITERIA

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

SPACING = 24.0 IN. C/C

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

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

THIS DESIGN COMPLIES WITH:

- PART 9 OF BCBC 2018, OBC 2012, ABC 2019
- PART 9 OF OBC 2012 (2019 AMENDMENT)
- CSA 086-08, CSA 086-14
- TPIC 2011, TPIC 2014

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

ALLOWABLE DEFL.(LL) = L/360 (1.06")
CALCULATED VERT. DEFL.(LL) = L/999 (0.07")
ALLOWABLE DEFL.(TL) = L/360 (1.06")
CALCULATED VERT. DEFL.(TL) = L/999 (0.13")

CS: TC=0.48/1.00 (D-E:1), BC=0.31/1.00 (K-L:1), WB=0.36/1.00 (B-Q:1), SS=0.27/1.00 (D-E:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

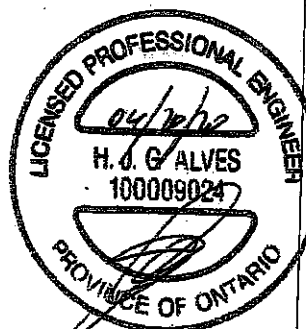
TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

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

PLATE PLACEMENT TOL = 0.250 inches

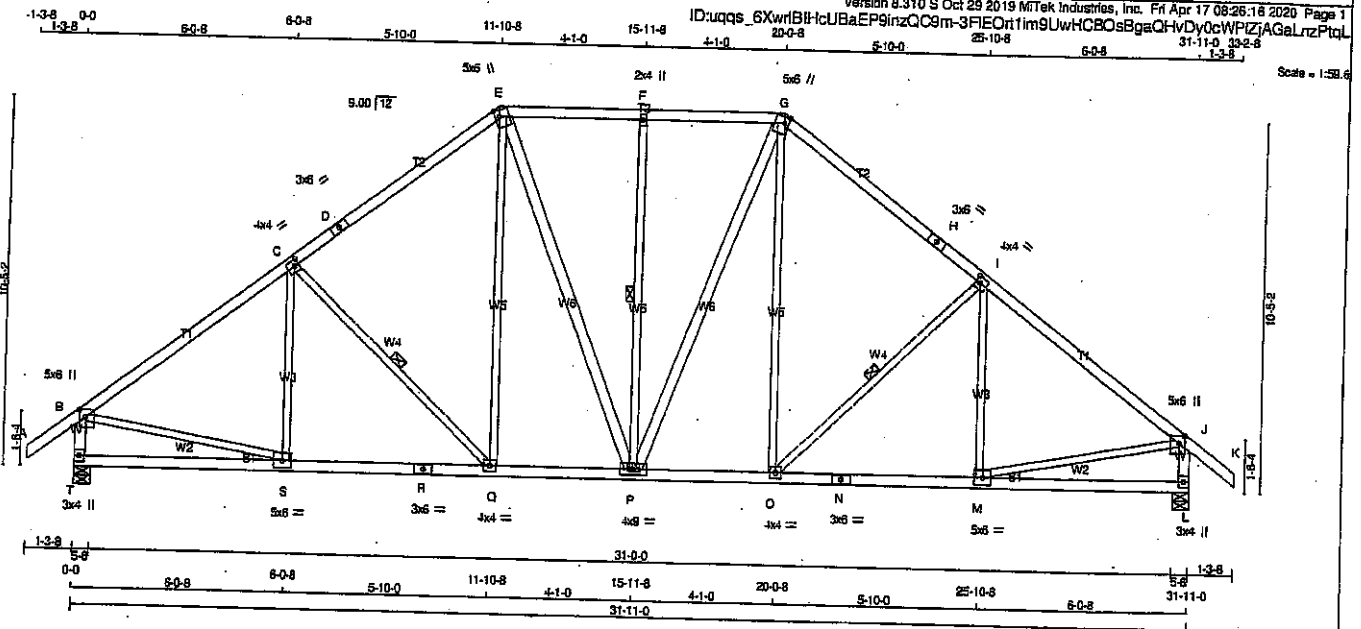
PLATE ROTATION TOL = 5.0 Deg.

SI GRIP=0.89 (B) (INPUT = 0.90)
SI METAL=0.46 (C) (INPUT = 1.00)



Structural component only
DIA/C# T. 2000-110

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
408188	T34	2	1	GREEN PARK HOMES	
Tamarack Roof Truss, Burlington					



LUMBER

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

DRY: SEASONED LUMBER.

PLATES (table in inches)

JT TYPE	PLATES	W	LEN	Y	X
B	TMVW+p	MT20	5.0	6.0	2.50 2.00
C	TMVW-i	MT20	4.0	4.0	2.00 1.50
D	TS-i	MT20	3.0	6.0	
E	TTWW+m	MT20	5.0	6.0	2.25 1.50
F	TMVW+m	MT20	2.0	4.0	
G	TTWW+m	MT20	5.0	6.0	2.25 1.50
H	TS-i	MT20	3.0	6.0	
I	TMVW-i	MT20	4.0	4.0	2.00 1.50
J	BMV1+p	MT20	5.0	6.0	2.50 2.00
L	BMV1+p	MT20	3.0	4.0	
M	BMVW-i	MT20	5.0	6.0	
N	BS-i	MT20	3.0	6.0	
O	BMVW-i	MT20	4.0	4.0	
P	BMVW-i	MT20	4.0	4.0	
Q	BS-i	MT20	3.0	6.0	
R	BMVW-i	MT20	5.0	6.0	
S	BMV1+p	MT20	3.0	4.0	

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

BEARINGS	FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	REQD BRG
JT	VERT	DOWN	BRG	BRG
T	1886	0	5-8	5-8
L	1886	0	5-8	5-8

UNFACTORED REACTIONS

1ST LCASE		MAX. MIN. COMPONENT REACTIONS					
JT	COMBINED	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
T	1331	887.0	0.0	0.0	0.0	444.0	0.0
L	1331	887.0	0.0	0.0	0.0	444.0	0.0

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.30 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-Q, F-P, I-O.

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	FACTORED LC1 MAX CSI (LC)	MAX. UNBRACED LENGTH	WEBS	MAX. FACTORED FORCE (LBS)	MAX. UNBRACED LENGTH
FR-TO					FR-TO		
A-B	0 / 38	-91.8	-91.8 0.12 (1)	10.00	S-C	-189.37	0.11 (1)
B-C	-1942.0	-91.8	-91.8 0.53 (1)	4.30	C-Q	-400.0	0.18 (1)
C-D	-1894.0	-91.8	-91.8 0.48 (1)	4.61	Q-E	0.370	0.08 (1)
D-E	-1894.0	-91.8	-91.8 0.48 (1)	4.61	E-P	0.278	0.04 (1)
E-F	-1404.0	-91.8	-91.8 0.21 (1)	5.29	P-F	-448.0	0.34 (1)
F-G	-1404.0	-91.8	-91.8 0.21 (1)	5.29	P-G	0.276	0.04 (1)
G-H	-1894.0	-91.8	-91.8 0.48 (1)	4.61	O-G	0.370	0.08 (1)
H-I	-1894.0	-91.8	-91.8 0.48 (1)	4.61	O-I	-400.0	0.18 (1)
I-J	-1942.0	-91.8	-91.8 0.53 (1)	4.30	M-I	-189.37	0.11 (1)
J-K	0 / 38	-91.8	-91.8 0.12 (1)	10.00	B-S	0.1615	0.36 (1)
T-B	-1840.0	0.0	0.0 0.19 (1)	6.17	M-J	0.1815	0.36 (1)
L-J	-1840.0	0.0	0.0 0.19 (1)	6.17			
T-S	0.0	-18.5	-18.5 0.16 (4)	10.00			
S-R	0.1585	-18.5	-18.5 0.34 (1)	10.00			
R-Q	0.1585	-18.5	-18.5 0.34 (1)	10.00			
Q-P	0.1301	-18.5	-18.5 0.26 (1)	10.00			
P-O	0.1301	-18.5	-18.5 0.26 (1)	10.00			
O-N	0.1585	-18.5	-18.5 0.34 (1)	10.00			
N-M	0.1585	-18.5	-18.5 0.34 (1)	10.00			
M-L	0.0	-18.5	-18.5 0.16 (4)	10.00			

TOTAL WEIGHT = 2 X 165 = 331 lb

DESIGN CRITERIA

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

SPACING = 24.0 IN./C/C

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

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

THIS DESIGN COMPLIES WITH:

- PART 9 OF BCBC 2018, OBC 2012, ABC 2019
- PART 9 OF OBC 2012 (2019 AMENDMENT)
- CSA 088-08, CSA 085-14
- TPIC 2011, TPIC 2014

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

ALLOWABLE DEFL.(LL) = L/360 (1.06")
CALCULATED VERT. DEFL.(LL) = L/999 (0.06")
ALLOWABLE DEFL.(TL) = L/360 (1.06")
CALCULATED VERT. DEFL.(TL) = L/999 (0.12")

CSI: TO=0.53/1.00 (B-C:1), BC=0.34/1.00 (Q-S:1), WS=0.36/1.00 (J-M:1), SS=0.21/1.00 (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

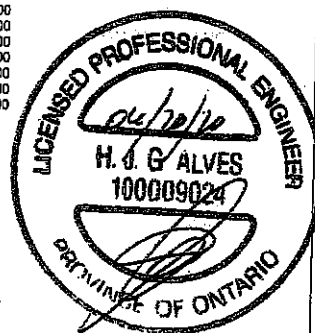
TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

NAIL VALUES
PLATE GRIP(DRY) SHEAR SECTION (PSI) (PLI) (PLI)
MAX MIN MAX MIN MAX MIN
MT20 616 354 1667 786 1987 1656

PLATE PLACEMENT TOL = 0.250 inches

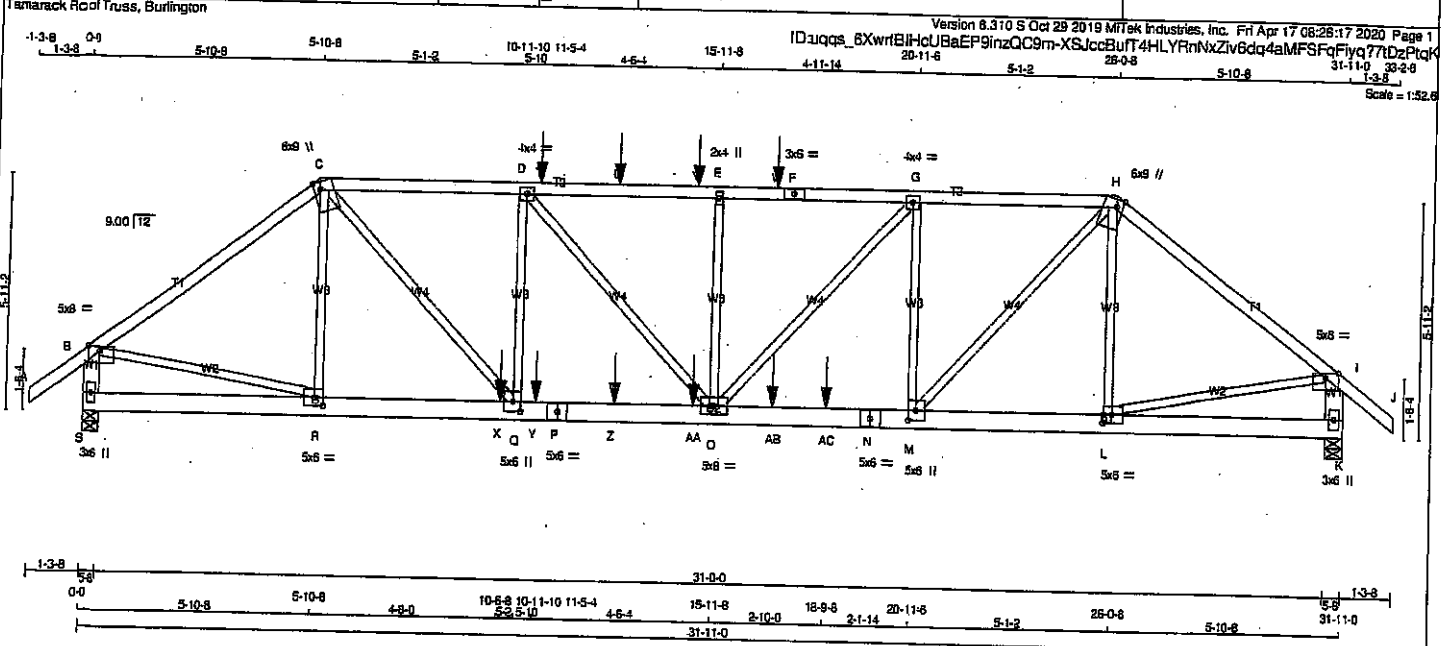
PLATE ROTATION TOL = 5.0 Deg.

JSI GRIP = 0.89 (B) (INPUT = 0.90)
JSI METAL = 0.52 (R) (INPUT = 1.00)



Structural component only

JOB NAME 408188	TRUSS NAME T35	QUANTITY 1	PLY 2	JOB DESC. GREEN PARK HOMES	DRWG NO.
Tamarack Roof Truss, Burlington					



LUMBER

N. L. G. A. RULES

CHORDS SIZE LUMBER

A - C	2x4	DRY	No.2
C - F	2x4	DRY	No.2
F - H	2x4	DRY	No.2
H - J	2x4	DRY	No.2
S - B	2x6	DRY	No.2
K - I	2x6	DRY	No.2
S - P	2x6	DRY	No.2
P - N	2x6	DRY	No.2
N - K	2x6	DRY	No.2

ALL WEBS 2x3 DRY No.2

EXCEPT

DRY: SEASONED LUMBER.

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

CHORDS #ROWS SURFACE SPACING (IN) LOAD (PLF)

TOP CHORDS: (0.122"x3") SPIRAL NAILS

A - C	1	12	TOP
C - F	1	12	TOP
F - H	1	12	TOP
H - J	1	12	TOP
S - B	2	12	TOP
K - I	2	12	TOP

BOTTOM CHORDS: (0.122"x3") SPIRAL NAILS

S - P	2	12	SIDE(0.0)
P - N	2	12	SIDE(0.0)
N - K	2	12	TOP

WEBS: (0.122"x3") SPIRAL NAILS

2x3	1	6	TOP
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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 in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMWV-p	MT20	5.0	8.0	Edge	
C	TTWV-m	MT20	9.0	9.0	Edge	2.00
D	TMWV-i	MT20	4.0	4.0		
E	TMWV-w	MT20	2.0	4.0		
F	TS-i	MT20	3.0	6.0		
G	TMWV-m	MT20	4.0	4.0		
H	TTWV-m	MT20	6.0	9.0	Edge	2.00
I	TMWV-p	MT20	5.0	8.0	Edge	
K	BMV1-p	MT20	3.0	6.0		
L	BMWV-i	MT20	5.0	6.0	2.50	2.75
M	BMWV-i	MT20	5.0	6.0	3.00	2.25
N	BS-i	MT20	5.0	6.0		
O	BS-i	MT20	5.0	6.0		
P	BMWV-i	MT20	5.0	6.0	3.00	2.25
Q	BMWV-i	MT20	5.0	6.0	2.50	2.75
R	BMWV-i	MT20	5.0	6.0		
S	BMV1-p	MT20	3.0	6.0		

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

BEARINGS

JT	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	BRG	IN-SX
S	3971	0	3971	0	0	5-8	5-8	5-8
K	3551	0	3551	0	0	5-8	5-8	5-8

UNFACTORED REACTIONS

JT	1ST CASE	MAX. MIN.	COMPONENT	REACTIONS
S	2798	1896	0	0
K	2503	1893	0	0

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.39 FT.

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

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS

MAX. FACTORED FORCE (LBS)

FACTORED VERT. LOAD LC1 MAX. MAX. UNBRAC

FROM TO LENGTH FR-TO

MEMB. FORCE (LBS)

FR-TO

A-B

B-C

C-D

D-E

E-F

F-G

G-H

H-I

I-J

J-K

K-L

L-M

M-N

N-O

O-P

P-Q

Q-R

R-S

S-T

T-U

U-V

V-W

W-X

X-Y

Y-Z

Z-AA

AA-AB

AB-AC

AC-AD

AD-AE

AE-AF

AF-AG

AG-AH

AH-AI

AI-AJ

AJ-AK

AK-AL

AL-AM

AM-AN

AN-AO

AO-AP

AP-AQ

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AV-AW

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AX-AY

AY-AZ

AZ-BA

BA-BB

BB-BC

BC-BD

BD-BE

BE-BF

BF-BG

BG-BH

BH-BI

BI-BJ

BJ-BK

BK-BL

BL-BM

BM-BN

BN-BO

BO-BP

BP-BQ

BQ-BR

BR-BS

BS-BT

BT-BU

BU-BV

BV-BW

BW-BX

BX-BY

BY-BZ

BZ-CA

CA-CB

CB-CC

CC-CD

CD-CE

CE-CF

CF-CG

CG-CH

CH-CI

CI-CJ

CJ-CK

CK-CL

CL-CM

CM-CN

CN-CO

CO-CP

CP-CQ

CQ-CR

CR-CS

CS-CT

CT-CU

CU-CV

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CW-CX

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ED-EE

EE-EF

EF-EG

EG-EH

EH-EI

EI-EJ

EJ-EK

EK-EL

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EN-EO

EO-EP

EP-EQ

EQ-ER

ER-ES

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EY-EZ

EZ-FA

FA-FB

FB-FC

FC-FD

FD-FE

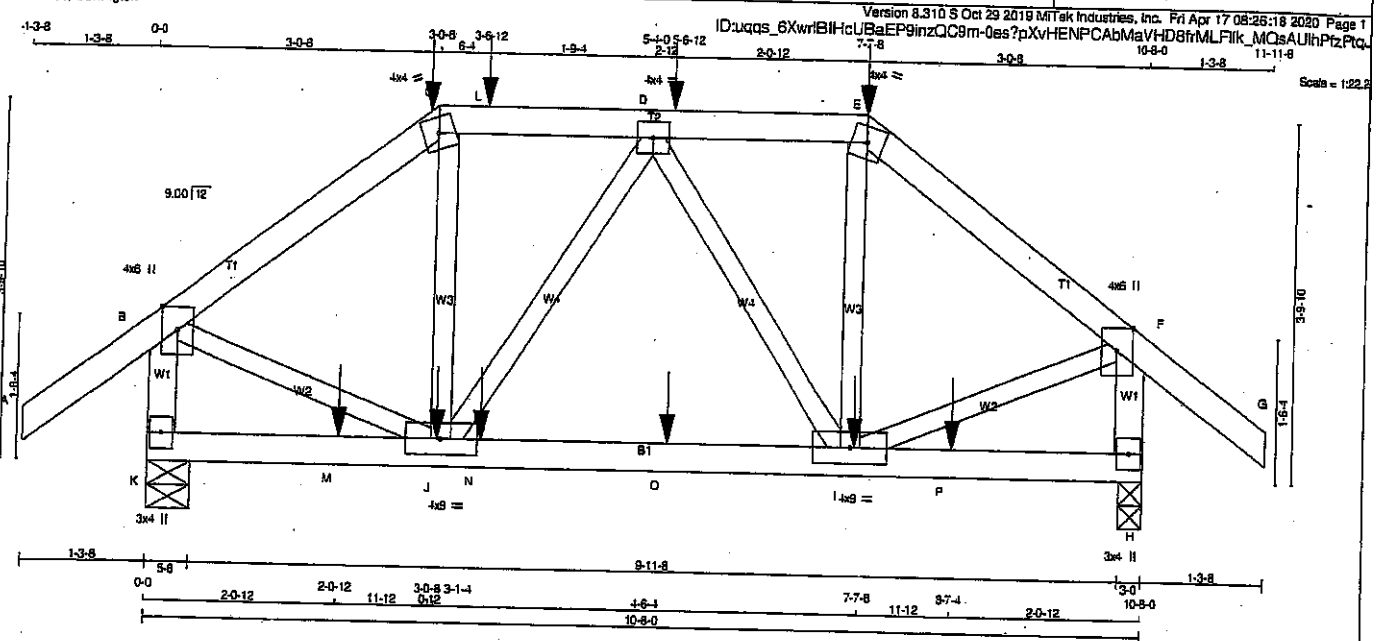
FE-FG

FG-FH

FH-FI

FI-FJ

JOB NAME 408188 Tamarack Roof Truss, Burlington	TRUSS NAME T36	QUANTITY 1	PLY 1	JOB DESC. GREEN PARK HOMES	TRUSS DESC.	DRWG NO.
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LUMBER

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

ALL WEBS 2x3 DRY No.2
EXCEPT

DRY: SEASONED LUMBER.

PLATES (tablets in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMVW+p	MT20	4.0	6.0	Edge	
C	TTW-m	MT20	4.0	4.0		
D	TMVW-t	MT20	4.0	4.0		
E	TTW-m	MT20	4.0	4.0		
F	TMVW+p	MT20	4.0	6.0	Edge	
H	BMV1+p	MT20	3.0	4.0		
I	BMVWV-t	MT20	4.0	9.0		
J	BMVWV-t	MT20	4.0	9.0		
K	BMV1+p	MT20	3.0	4.0		

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

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

BEARINGS	FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	REQD BRG
JT	VERT	HORZ	UPLIFT	IN-SX
K	977	0	0	5-8
H	951	0	0	3-0

UNFACTORED REACTIONS

1ST LCASE	MAX. MIN. COMPONENT REACTIONS
JT	COMBINED SNOW LIVE PERMLIVE WIND DEAD SOIL
K	888 489 0 0 0 0 219 0 0 0
H	870 455 0 0 0 0 214 0 0 0

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

BRACING

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

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. CS1 (LC)	UNBRAC LENGTH	WEBS	MAX. FACTORED FORCE (LBS)	MAX. CS1 (LC)
FR-TO		FROM TO			FR-TO		
A-B	0 / 38	-91.8 -91.8	0.14 (1)	10.00	J-C	0 / 66	0.03 (4)
B-C	-759 / 0	-91.8 -91.8	0.17 (1)	6.25	I-E	0 / 71	0.03 (4)
C-L	-608 / 0	-91.8 -91.8	0.09 (1)	6.25	B-J	0 / 648	0.18 (1)
L-D	-606 / 0	-91.8 -91.8	0.09 (1)	6.25	I-F	0 / 623	0.15 (1)
D-E	-584 / 0	-91.8 -91.8	0.09 (1)	6.25	J-D	-165 / 0	0.05 (1)
E-F	-730 / 0	-91.8 -91.8	0.17 (1)	6.25	D-I	-207 / 0	0.08 (1)
F-G	0 / 38	-91.8 -91.8	0.14 (1)	10.00			
K-B	-853 / 0	0.0 0.0	0.11 (1)	7.81			
H-F	-927 / 0	0.0 0.0	0.11 (1)	7.81			
K-M	0 / 0	-18.5 -18.5	0.08 (4)	10.00			
M-J	0 / 0	-18.5 -18.5	0.08 (4)	10.00			
J-N	0 / 694	-18.5 -18.5	0.17 (1)	10.00			
N-O	0 / 694	-18.5 -18.5	0.17 (1)	10.00			
O-I	0 / 694	-18.5 -18.5	0.17 (1)	10.00			
I-P	0 / 0	-18.5 -18.5	0.08 (4)	10.00			
P-H	0 / 0	-18.5 -18.5	0.08 (4)	10.00			

FACTORED CONCENTRATED LOADS (LBS)

JT	LOC.	LC1	MAX.	MAX+	FACE	DIR.	TYPE	HEEL	CONN.
C	3-0-8	-162	-162		BACK	VERT	TOTAL		C1
D	5-6-12	-48	-48		BACK	VERT	TOTAL		C1
E	7-7-8	-162	-162		BACK	VERT	TOTAL		C1
I	7-6-12	-10	-10		BACK	VERT	TOTAL		C1
J	3-1-4	-10	-10		BACK	VERT	TOTAL		C1
L	3-6-12	-70	-70		BACK	VERT	TOTAL		C1
M	2-0-12	-10	-10		BACK	VERT	TOTAL		C1
N	3-6-12	-10	-10		BACK	VERT	TOTAL		C1
O	5-6-12	-10	-10		BACK	VERT	TOTAL		C1
P	8-7-4	-10	-10		BACK	VERT	TOTAL		C1

CONNECTION REQUIREMENTS

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

TOTAL WEIGHT = 49 b

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH. LL = 25.6 PSF

DL = 5.0 PSF

BOT CH. LL = 0.0 PSF

DL = 7.4 PSF

TOTAL LOAD = 39.0 PSF

SPACING = 24.0 IN. C/C

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

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

THIS DESIGN COMPLIES WITH:

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

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

ALLOWABLE DEFL.(LL) = $L/360$ (0.36")

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

ALLOWABLE DEFL.(TL) = $L/360$ (0.36")

CALCULATED VERT. DEFL.(TL) = $L/999$ (0.02")

CS1: TC=0.17/1.00 (B-C:1), BC=0.17/1.00 (I-J:1),

WB=0.16/1.00 (B-J:1), SS=0.13/1.00 (C-D:1)

DOL LUMBER=1.00 NAIL=1.00 LS BEND=1.00

COMP=1.00 SHEAR=1.00 TENS=1.00

COMPANION LIVE LOAD FACTOR = 1.00

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

NAIL VALUES

PLATE GRIP(DRY) SHEAR SECTION

(PSI) (PL) (PL)

MAX MIN MAX MIN MAX MIN

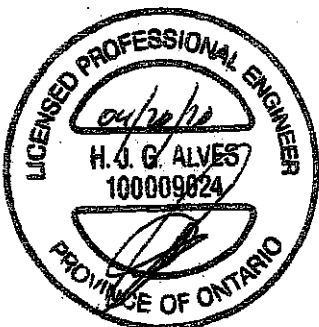
MT20 618 354 1667 788 1987 1858

PLATE PLACEMENT TOL = 0.250 inches

PLATE ROTATION TOL = 5.0 Deg.

JSI GRIP= 0.61 (B) (INPUT = 0.90)

JSI METAL= 0.41 (F) (INPUT = 1.00)

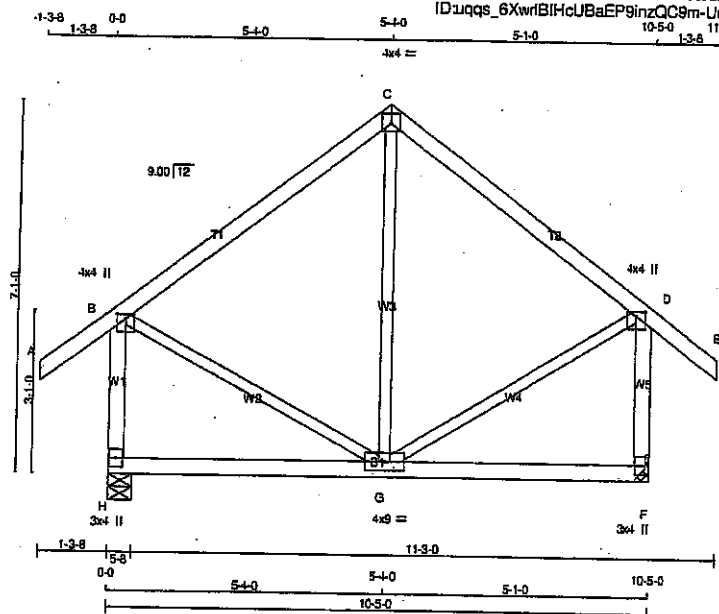


JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
408188	T37	1	1	GREEN PARK HOMES	

Tamarack Roof Truss, Burlington

Version 8.310 S Oct 29 2019 Mitek Industries, Inc. Fri Apr 17 08:26:19 2020 Page 1
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Scale = 1:40



LUMBER

N. L. G. A. RULES

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

ALL WEBS 2x3 DRY No.2
EXCEPT

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMVW+p	MT20	4.0	4.0	1.00	2.00
C	TTW+p	MT20	4.0	4.0	2.25	2.00
D	TMVW+p	MT20	4.0	4.0	1.00	2.00
F	BMV1+p	MT20	3.0	4.0		
G	BMVWW+1	MT20	4.0	9.0		
H	BMV1+p	MT20	3.0	4.0		

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

BEARINGS

	FACTORED	MAXIMUM FACTORED	INPUT	REQD
	GROSS REACTION	GROSS REACTION	BRG	BRG
JT	VERT	HORZ	DOWN	UPLIFT
H	701	0	701	0
F	701	0	701	0

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

UNFACTORED REACTIONS

JT	1ST LCASE	MAX. MIN. COMPONENT REACTIONS	PERM. LIVE	WIND	DEAD	SOIL
H	COMBINED	SNOW	LIVE			
F	483	337.0	0.0	0.0	0.0	156.0
	493	337.0	0.0	0.0	0.0	156.0

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

BRACING

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

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS	MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. FACTORED VERT. LOAD (LC1)	MAX. FACTORED VERT. LOAD (LC2)	MAX. FACTORED VERT. LOAD (LC3)	MAX. FACTORED VERT. LOAD (LC4)	MAX. FACTORED VERT. LOAD (LC5)	MAX. FACTORED VERT. LOAD (LC6)	MAX. FACTORED VERT. LOAD (LC7)	MAX. FACTORED VERT. LOAD (LC8)	MAX. FACTORED VERT. LOAD (LC9)	MAX. FACTORED VERT. LOAD (LC10)
FR-TO													
A-B	0.38	-91.8	-91.8	0.12 (1)	10.00	8-G	-133	41	0.11 (1)				
B-C	-287.0	-91.8	-91.8	0.33 (1)	6.25	8-G	0	259	0.06 (1)				
C-D	-287.0	-91.8	-91.8	0.30 (1)	6.25	8-G	0	266	0.06 (1)				
D-E	0.38	-91.8	-91.8	0.12 (1)	10.00								
H-B	-863.0	0.0	0.0	0.11 (1)	7.81								
F-D	-865.0	0.0	0.0	0.12 (1)	7.81								
H-G	0.0	-18.5	-18.5	0.14 (4)	10.00								
G-F	0.0	-18.5	-18.5	0.14 (4)	10.00								

TOTAL WEIGHT = 51 lb

(M/F)

DESIGN CRITERIA

SPECIFIED LOADS:

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

SPACING = 24.0 IN/C

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

THIS DESIGN COMPLIES WITH:

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

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

ALLOWABLE DEFL.(LL) = L/360 (0.35")
CALCULATED VERT. DEFL.(LL) = L/999 (0.00")
ALLOWABLE DEFL.(TL) = L/360 (0.35")
CALCULATED VERT. DEFL.(TL) = L/999 (0.02")

CSI: TC=0.33/1.00 (B-C:1), BC=0.14/1.00 (F-G:4),
WB=0.11/1.00 (C-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

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

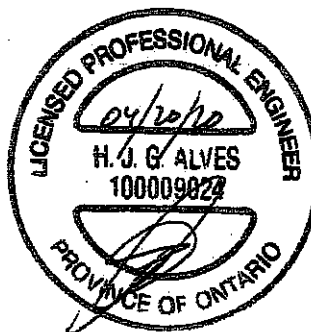
NAIL VALUES

PLATE	GRIP(DRY)	SHEAR	SECTION
(PSI)	(PLI)	(PLI)	
MAX	MIN	MAX	MIN
MT20	618	354	1667
		788	1937
			1656

PLATE PLACEMENT TOL = 0.250 inches

PLATE ROTATION TOL = 5.0 Deg.

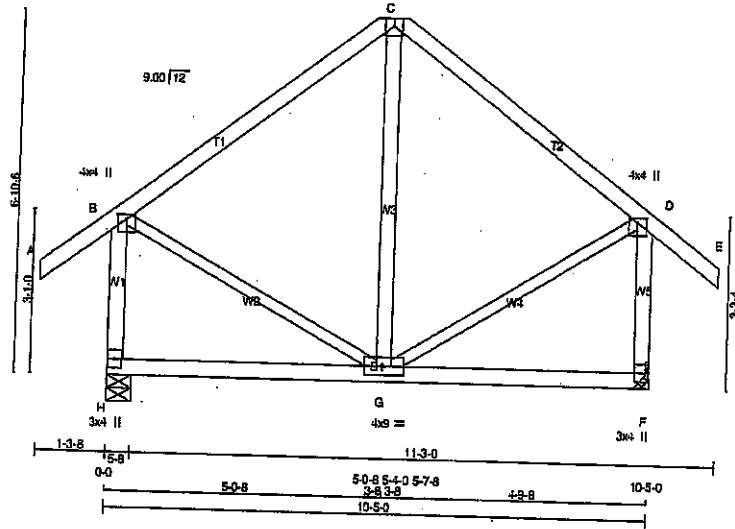
JSI GRIP = 0.53 (B) (INPUT = 0.90)
JSI METAL = 0.13 (B) (INPUT = 1.00)



Structural component only

JOB NAME 408188 Tamarack Roof Truss, Burlington	TRUSS NAME T37CP	QUANTITY 1	PLY 1	JOB DESC. GREEN PARK HOMES	TRUSS DESC.	DRWG NO.
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Version 8.310 S Oct 29 2019 MITek Industries, Inc. Fri Apr 17 08:28:21 2020 Page 1
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LUMBER			
N. L. G. A. RULES	CHORDS	SIZE	LUMBER
A - C	2x4	DRY	No.2
C - E	2x4	DRY	No.2
H - B	2x4	DRY	No.2
F - D	2x4	DRY	No.2
H - F	2x4	DRY	No.2
ALL WEBS EXCEPT G - C	2x3	DRY	No.2
	2x4	DRY	No.2

DRY: SEASONED LUMBER.

PLATES (tablets in inches)					
JT TYPE	PLATES	W	LEN	Y	X
B TMVW+p	MT20	4.0	4.0	1.00	2.00
C TMTMW+p	MT20	4.0	4.0	Edge	
D TMVW+p	MT20	4.0	4.0	1.00	2.00
F BMV1+p	MT20	3.0	4.0		
G BMVWW+1	MT20	4.0	9.0		
H BMV1+p	MT20	3.0	4.0		

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

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

FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG		REQD BRG	
JT	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX
H	701	0	701	0	0	5-8	5-8
F	701	0	701	0	0	MECHANICAL	MECHANICAL

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

UNFACTORED REACTIONS

JT	1ST LCASE	COMBINED	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
H	493	337	0	0	0	0	156	0
F	493	337	0	0	0	0	156	0

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

BRACING

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

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

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS		FACTORED		WEBS		FACTORED	
MEMB.	FORCE (LBS)	VERT. LOAD	LC1 MAX	MEMB.	FORCE (LBS)	MAX. CS1 (LC)	MAX. CS1 (LC)
FR-TO		FROM	TO	FR-TO			
A-B	0 / 38	-91.8	-91.8 0.12 (1)	B-G	0 / 259	0.06 (1)	0.06 (1)
B-C	-287 / 0	-91.8	-91.8 0.33 (1)	G-D	0 / 268	0.06 (1)	0.06 (1)
C-D	-287 / 0	-91.8	-91.8 0.30 (1)	G-C	-133 / 41	0.08 (1)	0.08 (1)
D-E	0 / 38	-91.8	-91.8 0.12 (1)				
H-B	-662 / 0	0.0	0.0 0.11 (1)				
F-D	-665 / 0	0.0	0.0 0.12 (1)				
H-G	0 / 0	-18.5	-18.5 0.14 (4)				
G-F	0 / 0	-18.5	-18.5 0.14 (4)				

TOTAL WEIGHT = 53 b

DESIGN CRITERIA

SPECIFIED LOADS:

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

SPACING = 24.0 IN. C/C

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

THIS DESIGN COMPLES WITH:

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

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

ALLOWABLE DEFL.(LL) = L/360 (0.35")
 CALCULATED VERT. DEFL.(LL) = L/999 (0.00")
 ALLOWABLE DEFL.(TL) = L/360 (0.35")
 CALCULATED VERT. DEFL.(TL) = L/999 (0.02")

CS1: TC=0.33/1.00 (B-C:1), BC=0.14/1.00 (G-H:4), WB=0.08/1.00 (C-G:1), 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 HEELS OFF

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

NAIL VALUES

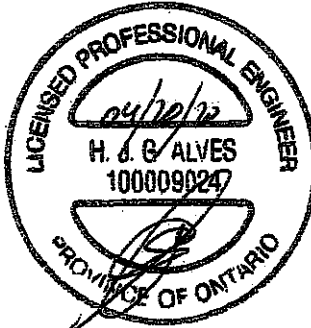
PLATE GRIP(DRY)	SHEAR	SECTION
(PSI)	(PLI)	(PLI)
MAX MIN	MAX MIN	MAX MIN
MT20	618	354
	1667	788
	1987	1656

PLATE PLACEMENT TOL = 0.250 inches

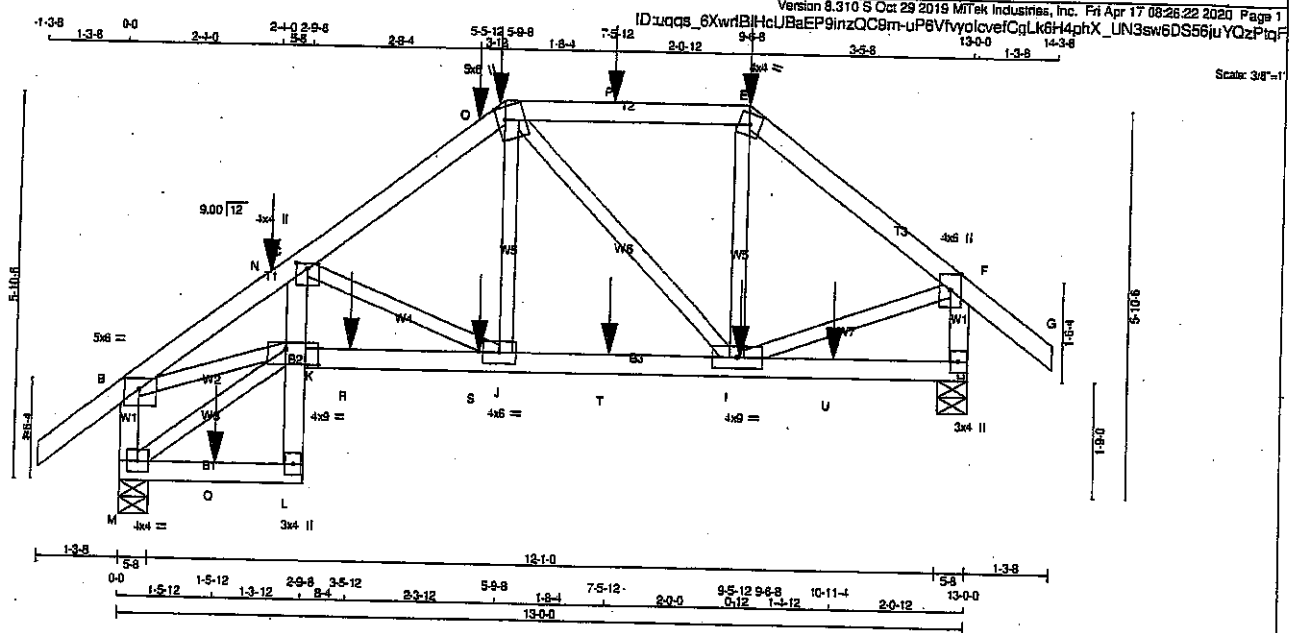
PLATE ROTATION TOL = 5.0 Deg.

JSI GRIP= 0.53 (B) (INPUT = 0.90)

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



JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
408188	T38S	1	1	GREEN PARK HOMES	
Tamarack Roof Truss, Burlington					



LUMBER

N. L. G. A. RULES

CHORDS	SIZE	LUMBER
A - D	2x4	DRY No.2
D - E	2x4	DRY No.2
E - G	2x4	DRY No.2
M - B	2x4	DRY No.2
H - F	2x4	DRY No.2
M - L	2x4	DRY No.2
L - C	2x4	DRY No.2
K - H	2x4	DRY No.2

ALL WEBS 2x3 DRY No.2

EXCEPT

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT TYPE	PLATES	W	LEN	Y	X
B	TMVW-p	MT20	5.0	6.0	2.00 2.75
C	TMVW+p	MT20	4.0	4.0	1.00 2.00
D	TTW+m	MT20	5.0	6.0	2.25 1.50
E	TTW-m	MT20	4.0	4.0	
F	TMVW+p	MT20	4.0	6.0	Edge
H	BMV1+p	MT20	3.0	4.0	
I	BMVWW-I	MT20	4.0	9.0	
J	BMVWW-I	MT20	4.0	6.0	
K	BMVWW-I	MT20	4.0	9.0	2.75 5.75
L	BMV+p	MT20	3.0	4.0	
M	BMVW1-I	MT20	4.0	4.0	

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

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

BEARINGS

	FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	REQD BRG
JT	VERT	HORIZ	DOWN	HORIZ
H	1179	0	1179	0
M	1128	0	1128	0

UNFACTORED REACTIONS

	1ST CASE	MAX. MIN. COMPONENT REACTIONS						
JT	COMBINED	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL	
H	831	560.0	0.0	0.0	0.0	271.0	0.0	
M	795	535.0	0.0	0.0	0.0	260.0	0.0	

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

BRACING

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

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS	MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. UNBRACED LENGTH (FT)	WEBS	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. UNBRACED LENGTH (FT)
FR-TO					FR-TO			
A-B	0:38	-91.8	-91.8 0.14 (1)	10.00	C-J	-843.0	0.21 (1)	
B-N	-2074.0	-91.8	-91.8 0.15 (1)	4.55	J-D	0:374	0.09 (1)	
N-C	-2074.0	-91.8	-91.8 0.15 (1)	4.55	D-I	-269.0	0.12 (1)	
C-O	-1200.0	-91.8	-91.8 0.18 (1)	5.60	I-E	0:93	0.04 (4)	
O-D	-1200.0	-91.8	-91.8 0.18 (1)	5.60	E-F	0:834	0.21 (1)	
D-P	-792.0	-91.8	-91.8 0.35 (1)	6.25	M-K	-54.0	0.01 (1)	
P-E	-792.0	-91.8	-91.8 0.35 (1)	6.25	B-K	0:1730	0.43 (1)	
E-F	-991.0	-91.8	-91.8 0.23 (1)	5.96				
F-G	0:38	-91.8	-91.8 0.14 (1)	10.00				
M-B	-1071.0	0.0	0.0 0.12 (1)	7.58				
H-F	-1148.0	0.0	0.0 0.13 (1)	7.39				
M-O	0:44	-18.5	-18.5 0.05 (4)	10.00				
O-L	0:44	-18.5	-18.5 0.05 (4)	10.00				
L-K	0:29	0.0	0.0 0.13 (1)	10.00				
K-C	0:509	0.0	0.0 0.21 (1)	10.00				
K-R	0:1741	-18.5	-18.5 0.35 (1)	10.00				
R-S	0:1741	-18.5	-18.5 0.35 (1)	10.00				
S-J	0:1741	-18.5	-18.5 0.35 (1)	10.00				
J-T	0:978	-18.5	-18.5 0.21 (1)	10.00				
T-I	0:978	-18.5	-18.5 0.21 (1)	10.00				
I-U	0:0	-18.5	-18.5 0.08 (4)	10.00				
U-H	0:0	-18.5	-18.5 0.08 (4)	10.00				

FACTORED CONCENTRATED LOADS (LBS)

JT	LOC.	LC1	MAX.	FACE	DIR.	TYPE	HEEL	CONN.
D	5-9-8	-128	-128	FRONT	VERT	TOTAL		C1
E	9-6-8	-206	-206	FRONT	VERT	TOTAL		C1
I	9-5-12	-13	-13	FRONT	VERT	TOTAL		C1
N	2-4-0	-9	-10	FRONT	VERT	DEAD		C1
O	5-5-12	-98	-98	FRONT	VERT	SNOW		C1
P	7-5-12	-67	-67	FRONT	VERT	TOTAL		C1
Q	1-5-12	-3	-3	FRONT	VERT	TOTAL		C1
R	3-5-12	-15	-15	FRONT	VERT	TOTAL		C1
S	5-5-12	-13	-13	FRONT	VERT	TOTAL		C1
T	7-5-12	-13	-13	FRONT	VERT	TOTAL		C1
U	10-11-4	-13	-13	FRONT	VERT	TOTAL		C1

CONNECTION REQUIREMENTS

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

TOTAL WEIGHT = 62 lb

DESIGN CRITERIA

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

SPECIFIED LOADS:

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

SPACING = 24.0 IN/C/C

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

*** 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 2010, NBCC 2015

THIS DESIGN COMPLIES WITH:

- PART 9 OF NBCC 2018, NBC 2012, ABC 2019
- PART 9 OF NBC 2012 (2019 AMENDMENT)
- CSA 088-08, CSA 088-14
- TPC 2011, TPC 2014

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

ALLOWABLE DEFL. (LL) = L/360 (0.43")
CALCULATED VERT. DEFL. (LL) = L/999 (0.04")
ALLOWABLE DEFL. (TL) = L/360 (0.43")
CALCULATED VERT. DEFL. (TL) = L/999 (0.07")

CSI: TC=0.35, 1.00 (D-E-1), BC=0.35, 1.00 (J-K-1), WB=0.43, 1.00 (B-K-1), SSI=0.18, 1.00 (D-E-1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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	818	354	1657 788 1987 1656

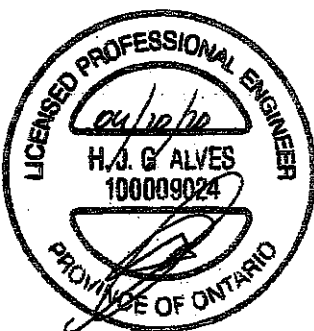
PLATE PLACEMENT TOL = 0.250 inches

PLATE ROTATION TOL = 5.0 Deg.

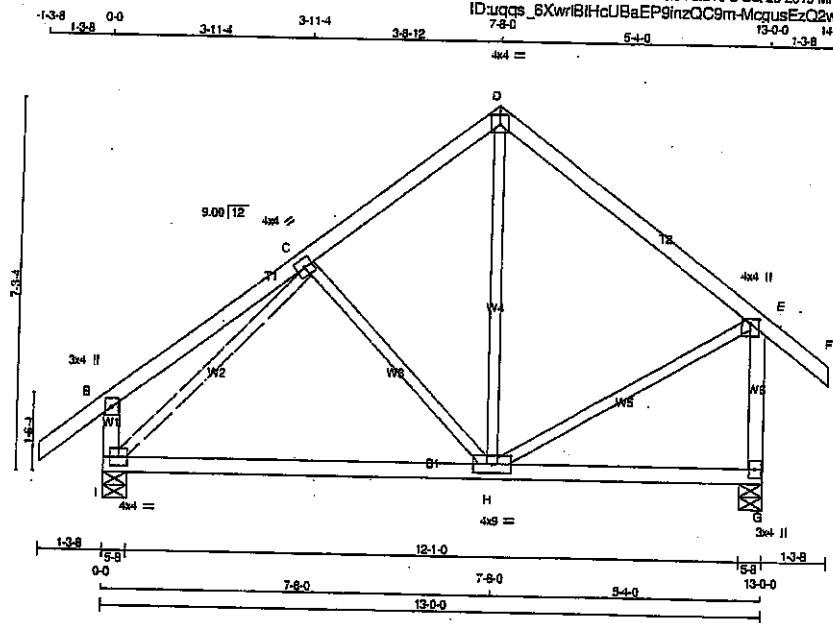
JSI GRIP = 0.86 (K) (INPUT = 0.90)

JSI METAL = 0.51 (F) (INPUT = 1.00)

Structural component only



JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
408188	T39	5	1	GREEN PARK HOMES	
Tamarack Roof Truss, Burlington					



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

ALL WEBS 2x3 DRY No.2
EXCEPT

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMV+p	MT20	3.0	4.0		
C	TMVW-t	MT20	4.0	4.0		
D	TTW-p	MT20	4.0	4.0	2.25	2.00
E	TMVW+p	MT20	4.0	4.0	1.00	2.00
G	BMV1+p	MT20	3.0	4.0		
H	BMVW-t	MT20	4.0	9.0		
I	BMVW1-t	MT20	4.0	4.0		

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

BEARINGS	FACTORED	MAXIMUM FACTORED	INPUT	RECORD
	GROSS REACTION	GROSS REACTION	BRG	BRG
JT	VERT	HORZ	DOWN	HORZ
I	843	0	843	0
G	843	0	843	0

UNFACTORED REACTIONS

JT	1ST LCASE	MAX. MIN. COMPONENT REACTIONS	PERM. LIVE	WIND	DEAD	SOIL
I	594	403 0	0 0	0 0	191 0	0 0
G	594	403 0	0 0	0 0	191 0	0 0

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) I, 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: (4)

MEMB.	CHORDS	MAX. FACTORED	FORCE	VERT. LOAD	LC1	MAX	CS1 (LC)	UNBRAC	MEMB.	WEBS	MAX. FACTORED	FORCE	MAX	CS1 (LC)
A-B	0	38	-91.8	-91.8	0.12	(1)	10.00	C-H	-226.0	0.12	(1)			
B-C	0	25	-91.8	-91.8	0.22	(1)	10.00	H-D	0	129	0.04	(4)		
C-D	-449	0	-91.8	-91.8	0.17	(1)	8.25	I-C	-722.0	0.37	(1)			
D-E	-424	0	-91.8	-91.8	0.34	(1)	6.25	H-E	0	387	0.09	(1)		
E-F	0	38	-91.8	-91.8	0.12	(1)	10.00							
F-G	-280	0	0.0	0.0	0.03	(1)	7.81							
G-H	-813	0	0.0	0.0	0.15	(1)	7.81							
H-I	0	495	-18.5	-18.5	0.28	(4)	10.00							
I-G	0	0	-18.5	-18.5	0.25	(4)	10.00							

TOTAL WEIGHT = 5 X 61 = 303 lb

DESIGN CRITERIA

SPECIFIED LOADS:

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

SPACING = 24.0 IN. C/C

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

THIS DESIGN COMPLIES WITH:

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

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

ALLOWABLE DEFL.(LL) = L/360 (0.43")
CALCULATED VERT. DEFL.(LL) = L/999 (0.01")
ALLOWABLE DEFL.(TL) = L/360 (0.43")
CALCULATED VERT. DEFL.(TL) = L/999 (0.09")

CSI: TC=0.34/1.00 (D-E:1), BC=0.28/1.00 (H-I:4), WB=0.37/1.00 (C-I:1), SSI=0.15/1.00 (D-E:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

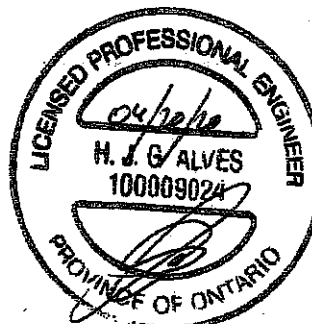
NAIL VALUES

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP = 0.68 (C) (INPUT = 0.90)
JSI METAL = 0.26 (C) (INPUT = 1.00)

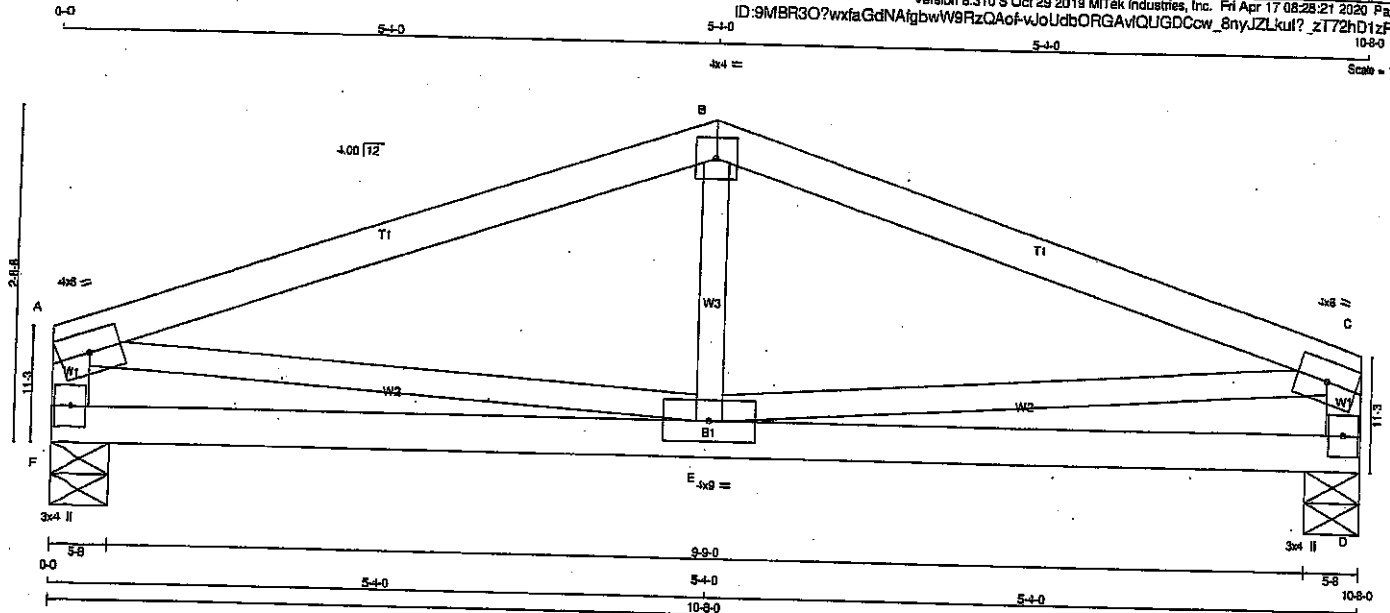


Structural component only

JOB NAME 408189	TRUSS NAME T51	QUANTITY 1	PLY 1	JOB DESC. GREEN PARK HOMES	TRUSS DESC.	DRWG NO.
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Tamarack Roof Truss, Burlington

Version 8.310 S Oct 29 2019 Mitek Industries, Inc. Fri Apr 17 08:28:21 2020 Page 1
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10-8-0
Scale = 1:17.0



LUMBER

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

DRY: SEASONED LUMBER.

DRY: SEASONED LUMBER.

PLATES (tablets in inches)

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

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

BEARINGS	FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	REQD BRG
JT	VERT	HORZ	DOWN	HORZ
F	588	0	588	0
D	588	0	588	0

UNFACTORED REACTIONS

JT	1ST CASE	MAX. MIN. COMPONENT REACTIONS	PERM. LIVE	WIND	DEAD	SOIL
F	COMBINED	SNOW	LIVE	PERM. LIVE	WIND	DEAD
F	416	273	0	0	0	0
D	416	273	0	0	0	0

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

BRACING

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

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. FACTORED VERT. LOAD (PLF)	MAX. FACTORED VERT. LOAD (PLF)	MAX. FACTORED VERT. LOAD (PLF)	MAX. FACTORED VERT. LOAD (PLF)	MAX. FACTORED VERT. LOAD (PLF)	MAX. FACTORED VERT. LOAD (PLF)	MAX. FACTORED VERT. LOAD (PLF)
FR-TO									
A-B	-708	0	-91.8	-91.8	0.34 (1)	6.25	E-B	-42	77
B-C	-708	0	-91.8	-91.8	0.34 (1)	6.25	A-E	0	876
F-A	-548	0	0.0	0.0	0.05 (1)	7.81	E-C	0	876
D-C	-548	0	0.0	0.0	0.05 (1)	7.81			
F-E	0	0	-18.5	-18.5	0.14 (4)	10.00			
E-D	0	0	-18.5	-18.5	0.14 (4)	10.00			

TOTAL WEIGHT = 36 lb (M/F)

DESIGN CRITERIA

SPECIFIED LOADS:

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

SPACING = 24.0 IN. C/C

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

THIS DESIGN COMPLIES WITH:

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

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

ALLOWABLE DEFL. (LL) = L/360 (0.36")
CALCULATED VERT. DEFL. (LL) = L/999 (0.02")
ALLOWABLE DEFL. (TL) = L/360 (0.36")
CALCULATED VERT. DEFL. (TL) = L/999 (0.04")

CS: TC=0.34/1.00 (B-C:1), BC=0.14/1.00 (E-F:4), WB=0.15/1.00 (A-E:1), SS=0.18/1.00 (B-C:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

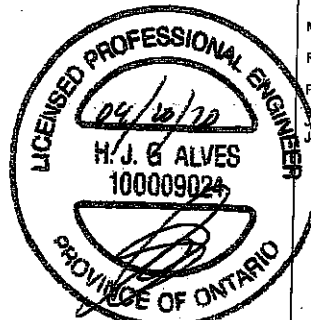
NAIL VALUES

PLATE	GRIP(DRY)	SHEAR	SECTION
(PSB)	(PLI)	(PLI)	(PLI)
MAX MIN	MAX MIN	MAX MIN	MAX MIN
MT20	618	354	1687

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

GRIP = 0.38 (C) (INPUT = 0.90)
METAL = 0.19 (C) (INPUT = 1.00)



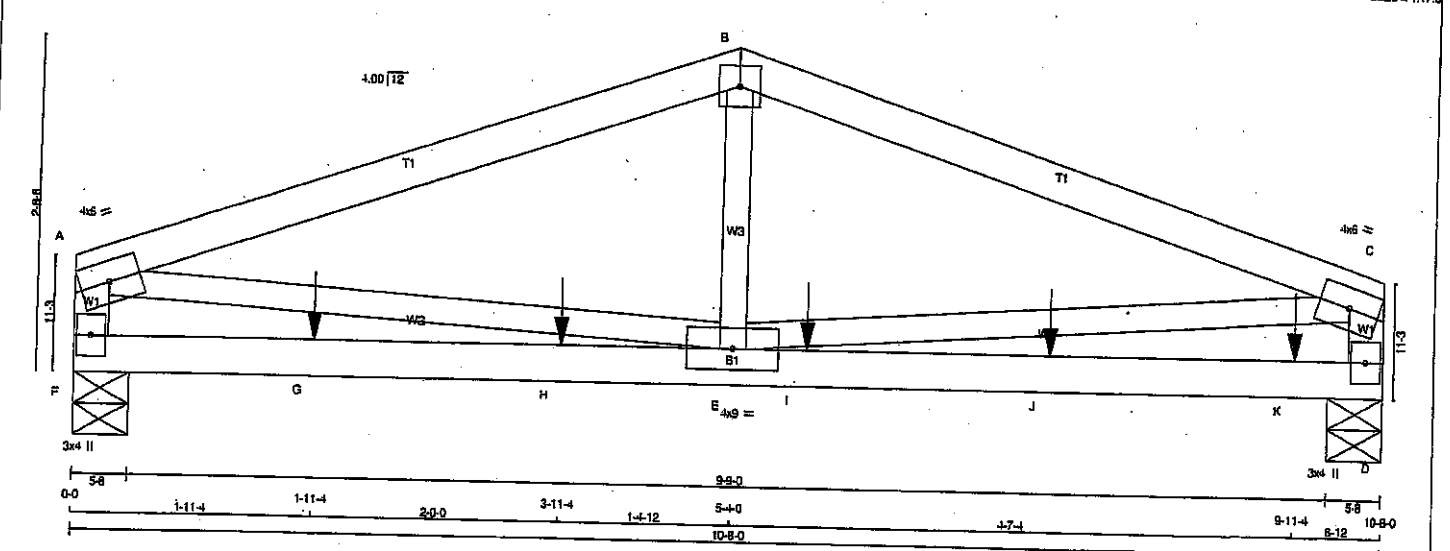
JOB NAME 408189	TRUSS NAME T51Z	QUANTITY 1	PLY 2	JOB DESC. GREEN PARK HOMES	TRUSS DESC.	DRWG NO.
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Tamarack Roof Truss, Burlington

Version 8.310 S Oct 29 2019 Mitek Industries, Inc. Fri Apr 17 08:28:22 2020 Page 1

ID:9MBR3O?wxfGdNAfgbwW9RzQAcf-NVMtrP31U1c2erPmJRDh_VV7kzK1QE6hnnFmTzPloN

Scale = 1:17.0



LUMBER			
N. L. G. A. RULES	SIZE	LUMBER	DESCR.
CHORDS			
A - B	2x4 DRY	No.2	SPF
B - C	2x4 DRY	No.2	SPF
F - A	2x4 DRY	No.2	SPF
D - C	2x4 DRY	No.2	SPF
F - D	2x4 DRY	No.2	SPF
ALL WEBS 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-B	12	TOP
B-C	12	TOP
F-A	12	TOP
D-C	12	TOP
BOTTOM CHORDS : (0.122"x3") SPIRAL NAILS		
F-D	12	SIDE(0.0)
WEBS : (0.122"x3") SPIRAL NAILS		
2x3	6	

NAILS TO BE DRIVEN FROM ONE SIDE ONLY.

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

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

SIDE - PLF SHOWN IS THE EQUIVALENT L/DL 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)	W	LEN	Y	X
JT TYPE				
A TMVW-1	MT20	4.0	6.0	
B TTW-p	MT20	4.0	4.0	
C TMVW-1	MT20	4.0	6.0	
D BMV1+p	MT20	3.0	4.0	
E BMVWW-1	MT20	4.0	9.0	
F BMV1+p	MT20	3.0	4.0	

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

FACTORED		MAXIMUM FACTORED		INPUT		REQ'D	
JT	GROSS REACTION	JT	GROSS REACTION	BRG	BRG	BRG	BRG
F	VERT 1438	DOWN 1438	0	0	5-8	5-8	5-8
D	VERT 1912	DOWN 1912	0	0	5-8	5-8	5-8

UNFACTORED REACTIONS

1ST CASE	MAX. MIN. COMPONENT REACTIONS
JT COMBINED	SNOW LIVE PERM. LIVE WIND DEAD SOIL
F	1010 703.0 0.0 0.0 0.0 307.0 0.0
D	1341 943.0 0.0 0.0 0.0 389.0 0.0

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

BRACING
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 5.49 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR RIGID CEILING DIRECTLY APPLIED.

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS		FACTORED		WEBS		FACTORED	
MEMB.	FORCE (LBS)	VERT. LOAD (PLF)	LC1 MAX. CSI (LC)	MEMB.	FORCE (LBS)	MAX. UNBRACED LENGTH	MEMB. MAX. FACTORED FORCE (LBS) CSI (LC)
FR-TO		FROM TO		FR-TO			
A-B	-2375.0	-91.8 -91.8	0.29 (1)	5.49	A-B	0.1013	0.13 (1)
B-C	-2375.0	-91.8 -91.8	0.29 (1)	5.49	A-E	0.2269	0.28 (1)
F-A	-1283.0	0.0 0.0	0.07 (1)	7.81	E-C	0.2269	0.28 (1)
D-C	-1283.0	0.0 0.0	0.07 (1)	7.81			
F-G	0.0	-18.5 -18.5	0.58 (1)	10.00			
G-H	0.0	-18.5 -18.5	0.58 (1)	10.00			
H-E	0.0	-18.5 -18.5	0.58 (1)	10.00			
E-I	0.0	-18.5 -18.5	0.58 (1)	10.00			
I-J	0.0	-18.5 -18.5	0.58 (1)	10.00			
J-K	0.0	-18.5 -18.5	0.58 (1)	10.00			
K-D	0.0	-18.5 -18.5	0.58 (1)	10.00			

FACTORED CONCENTRATED LOADS (LBS)

JT	LOC.	LC1	MAX.	MAX+	FACE	DIR.	TYPE	HEEL	CONN.
G	1-11-4	-265	-265	---	TOP	VERT	TOTAL	---	C1
H	3-11-4	-387	-387	---	TOP	VERT	TOTAL	---	C1
I	5-11-4	-507	-507	---	FRONT	VERT	TOTAL	---	C1
J	7-11-4	-507	-507	---	FRONT	VERT	TOTAL	---	C1
K	9-11-4	-509	-509	---	FRONT	VERT	TOTAL	---	C1

CONNECTION REQUIREMENTS

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

TOTAL WEIGHT = 2 X 36 = 72 lb

DESIGN CRITERIA

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

SPACING = 24.0 IN. C/C

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

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

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

ALLOWABLE DEFL.(LL) = L/360 (0.36")
CALCULATED VERT. DEFL.(LL) = L/999 (0.11")
ALLOWABLE DEFL.(TL) = L/360 (0.36")
CALCULATED VERT. DEFL.(TL) = L/679 (0.19")

CSI: TC=0.29/1.00 (B-C:1), BC=0.58/1.00 (E-F:1), WS=0.28/1.00 (A-E:1), SS=0.42/1.00 (D-E:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

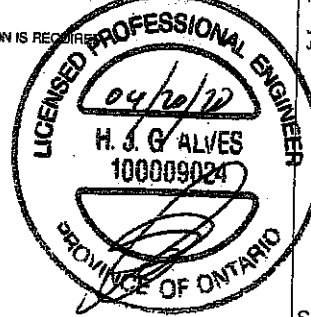
TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

NAIL VALUES
PLATE GRIP(DRY) SHEAR SECTION (PSI) (PLI) (PLI)
MAX MIN MAX MIN MAX MIN
MT20 618 354 1657 788 1987 1656

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.65 (C) (INPUT = 0.90)
JSI METAL= 0.30 (A) (INPUT = 1.00)



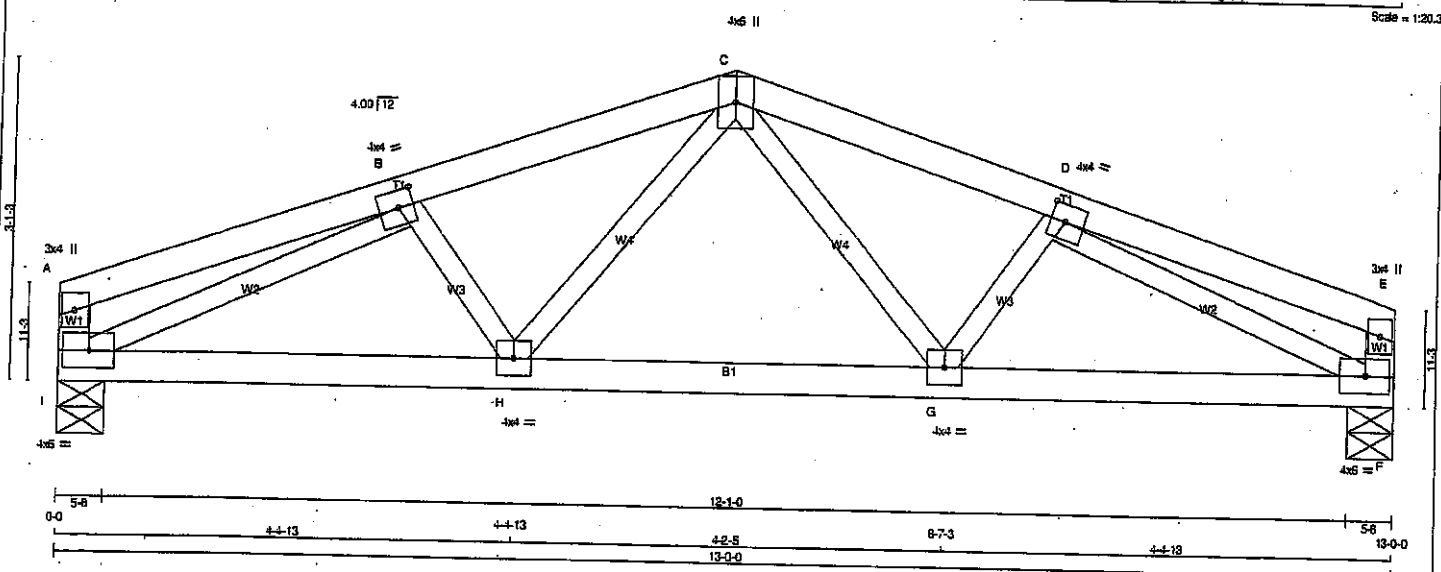
Structural component only

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
408189	T53	4	1	GREEN PARK HOMES	
Tamarack Roof Truss, Burlington					

Version 8.310 S Oct 29 2019 Mitek Industries, Inc. Fri Apr 17 08:25:23 2020 Page 1

ID:9MBR3O?wxfGdNAIgbwW9PzQAof-rhwF2GQhan9TgaQbK1ySDC2IN8O8maRFwRXolvzPtoM

Scale = 1/20.3



LUMBER

N. L. G. A. RULES

CHORDS	SIZE	LUMBER
A - C	2x4 DRY	No.2
C - E	2x4 DRY	No.2
I - A	2x4 DRY	No.2
F - E	2x4 DRY	No.2
I - F	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	TMV+p	MT20	3.0	4.0		
B	TMVW-t	MT20	4.0	4.0	2.00	1.75
C	TTWW+p	MT20	4.0	6.0		
D	TMVW-t	MT20	4.0	4.0	2.00	1.75
E	TMV+p	MT20	3.0	4.0		
F	BMVW-t	MT20	4.0	6.0		
G	BMVW-t	MT20	4.0	4.0		
H	BMVW-t	MT20	4.0	4.0		
I	BMVW-t	MT20	4.0	6.0		

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

BEARINGS

JT	FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG IN-SX	REQD BRG IN-SX
	VERT	HORZ	DOWN	HORZ		
I	717	0	717	0	5-8	5-8
F	717	0	717	0	5-8	5-8

UNFACTORED REACTIONS

JT	1ST LCASE		MAX. MIN. COMPONENT REACTIONS				
	COMBINED	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
I	507	333	0	0	0	174	0
F	507	333	0	0	0	174	0

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 6.04 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	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	LENGTH	FR-TO			
A-B	0 / 9	-91.8 -91.8 0.13 (1)	10.00	C-G	0 / 260	0.05 (1)	
B-C	-1042 / 0	-91.8 -91.8 0.11 (1)	8.04	G-D	-148 / 4	0.02 (1)	
C-D	-1042 / 0	-91.8 -91.8 0.11 (1)	6.04	H-C	0 / 260	0.05 (1)	
D-E	0 / 9	-91.8 -91.8 0.13 (1)	10.00	B-H	-148 / 4	0.02 (1)	
E-F	-122 / 0	0.0 0.0 0.01 (1)	7.81	F-B	-1198 / 0	0.25 (1)	
F-E	-122 / 0	0.0 0.0 0.01 (1)	7.81	D-F	-1198 / 0	0.25 (1)	
I-H	0 / 1061	-18.5 -18.5 0.22 (1)	10.00				
H-G	0 / 824	-18.5 -18.5 0.16 (1)	10.00				
G-F	0 / 1061	-18.5 -18.5 0.22 (1)	10.00				

TOTAL WEIGHT = 4 X 45 = 181 lb

[M/F]

DESIGN CRITERIA

SPECIFIED LOADS:

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

SPACING = 24.0 IN. C/C

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

THIS DESIGN COMPLIES WITH:

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

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

ALLOWABLE DEFL. (LL) = L/360 (0.43")
CALCULATED VERT. DEFL. (LL) = L/999 (0.03")
ALLOWABLE DEFL. (TL) = L/360 (0.43")
CALCULATED VERT. DEFL. (TL) = L/999 (0.05")

CSI: TC=0.13/1.00 (D-E:1), BC=0.22/1.00 (F-G:1),
WB=0.28/1.00 (D-F:1), SS=0.13/1.00 (D-E:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

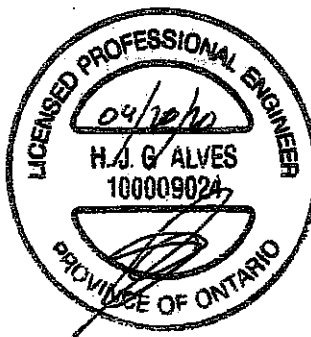
NAIL VALUES

PLATE	GRIP (DRY)	SHEAR	SECTION
(PSI)	(PLI)	(PLI)	(PLI)
MAX	MIN	MAX	MIN
MT20	618	354	1667 788 1987 1856

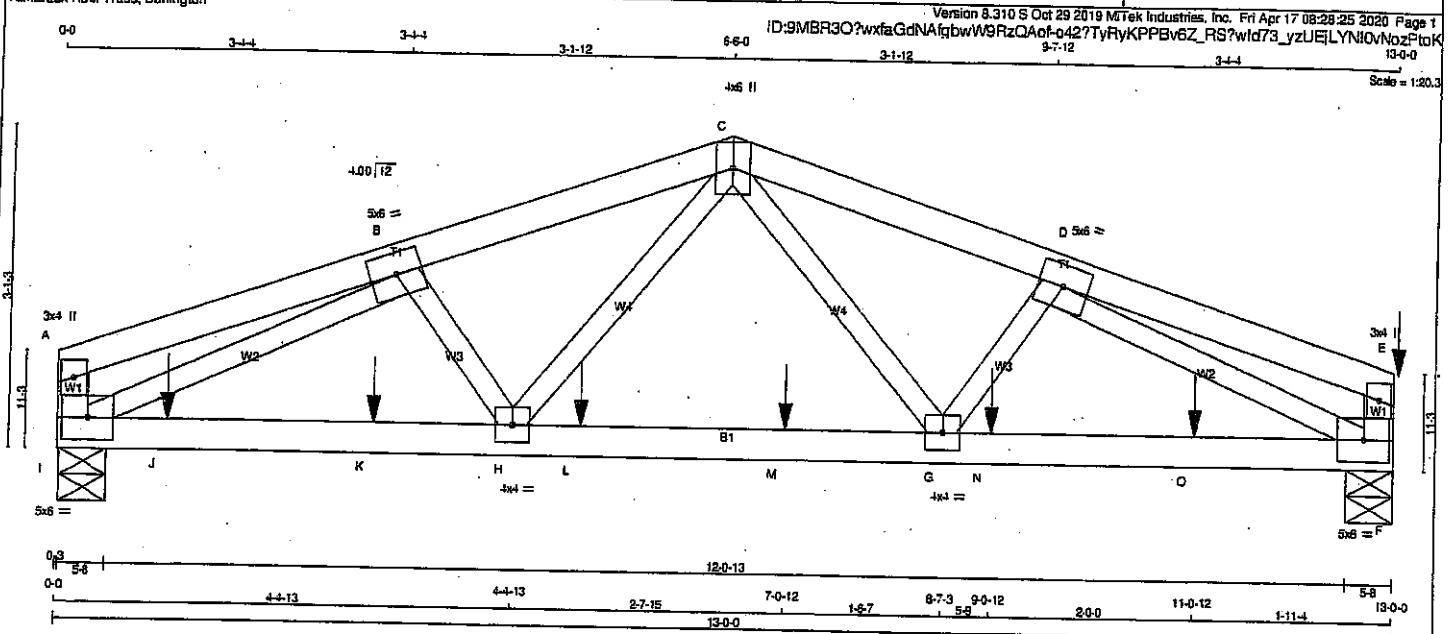
PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP = 0.79 (B) (INPUT = 0.90)
JSI METAL = 0.43 (B) (INPUT = 1.00)



JOB NAME 408189	TRUSS NAME T53Z	QUANTITY 1	PLY 2	JOB DESC. GREEN PARK HOMES	TRUSS DESC.	DRWG NO.
Tamarack Roof Truss, Burlington						



LUMBER

N. L. G. A. RULES

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

DRY: SEASONED LUMBER.

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

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

NAILS TO BE DRIVEN FROM ONE SIDE ONLY.

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

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

SIDE - PLF SHOWN IS THE EQUIVALENT UDL APPLIED TO ONE SIDE THAT THE CORRESPONDING NAILING PATTERN SHALL BE CAPABLE OF 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	TMV-p	MT20	3.0	4.0		
B	TMWW-1	MT20	5.0	6.0		
C	TTWW-p	MT20	4.0	6.0		
D	TMWW-1	MT20	5.0	6.0		
E	TMV-p	MT20	3.0	4.0		
F	BMWW-1	MT20	5.0	6.0		
G	BMWW-1	MT20	4.0	4.0		
H	BMWW-1	MT20	4.0	4.0		
I	BMWW-1	MT20	5.0	6.0		

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

JT	FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG	REQD BRG
	VERT	HORZ	DOWN	HORZ		
I	2267	0	2267	0	5-8	5-8
F	2267	0	2267	0	5-8	5-8

UNFACTORED REACTIONS

JT	1ST CASE		MAX. MIN. COMPONENT REACTIONS		WIND	DEAD	SOIL
	COMBINED	SNOW	LIVE	PERM. LIVE			
I	1590	1118	0	0	0	471	0
F	1596	1135	0	0	0	451	0

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.91 FT. MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR RIGID CEILING DIRECTLY APPLIED.

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD LC1 (PLF)	MAX. CSI (LC)	MAX. UNBRACED LENGTH	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. CSI (LC)
FR-TO		FROM TO			FR-TO		
A-B	0/3	-91.8	-91.8 0.08 (1)	10.00	C-G	0/956	0.12 (1)
B-C	-3507/0	-91.8	-91.8 0.12 (1)	4.91	G-D	0/239	0.03 (1)
C-D	-3247/0	-91.8	-91.8 0.11 (1)	5.07	H-C	0/1370	0.17 (1)
D-E	0/4	-91.8	-91.8 0.08 (1)	10.00	B-H	0/286	0.04 (1)
I-A	-140/0	0.0	0.0 0.01 (1)	7.81	I-B	-3580/0	0.45 (1)
F-E	-559/0	0.0	0.0 0.03 (1)	7.81	D-F	-3329/0	0.42 (1)
I-J	0/3168	-18.5	-18.5 0.68 (1)	10.00			
J-K	0/3168	-18.5	-18.5 0.68 (1)	10.00			
K-H	0/3168	-18.5	-18.5 0.68 (1)	10.00			
H-L	0/2503	-18.5	-18.5 0.62 (1)	10.00			
L-M	0/2503	-18.5	-18.5 0.62 (1)	10.00			
M-G	0/2503	-18.5	-18.5 0.62 (1)	10.00			
G-N	0/2946	-18.5	-18.5 0.50 (1)	10.00			
N-O	0/2946	-18.5	-18.5 0.50 (1)	10.00			
O-F	0/2946	-18.5	-18.5 0.50 (1)	10.00			

ENGINEERED PROFESSIONAL

04/12/20

FACTORED CONCENTRATED LOADS (LBS)

JT	LOC.	LC1	MAX-	MAX+	FACE	DIR.
E	13-0-0	-421	-421	---	TOP	VERT
J	1-0-12	-507	-507	---	FRONT	VERT
K	3-0-12	-507	-507	---	FRONT	VERT
L	5-0-12	-507	-507	---	FRONT	VERT
M	7-0-12	-507	-507	---	FRONT	VERT
N	9-0-12	-387	-387	---	TOP	VERT
O	11-0-12	-265	-265	---	TOP	VERT

CONNECTION REQUIREMENTS

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

TOTAL WEIGHT = 2 X 45 = 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. NBCC 2010, NBCC 2015

THIS DESIGN COMPLIES WITH:

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

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

ALLOWABLE DEFL.(LL) = L/360 (0.43")
CALCULATED VERT. DEFL.(LL) = L/999 (0.66")
ALLOWABLE DEFL.(TL) = L/360 (0.43")
CALCULATED VERT. DEFL.(TL) = L/999 (0.12")

CSI: TC=0.12/1.00 (B-C:1), BC=0.68/1.00 (H-I:1), WS=0.45/1.00 (B-I:1), SS=0.30/1.00 (G-H:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

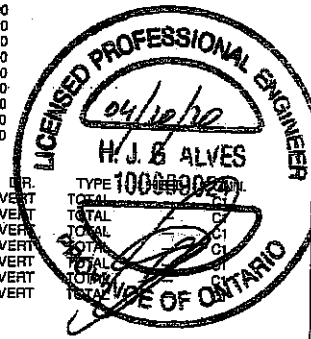
NAIL VALUES

PLATE	GRIP(DRY)	SHEAR (PS)	SECTION (PL)
MT20	818	354	1657
			788
			1987
			1656

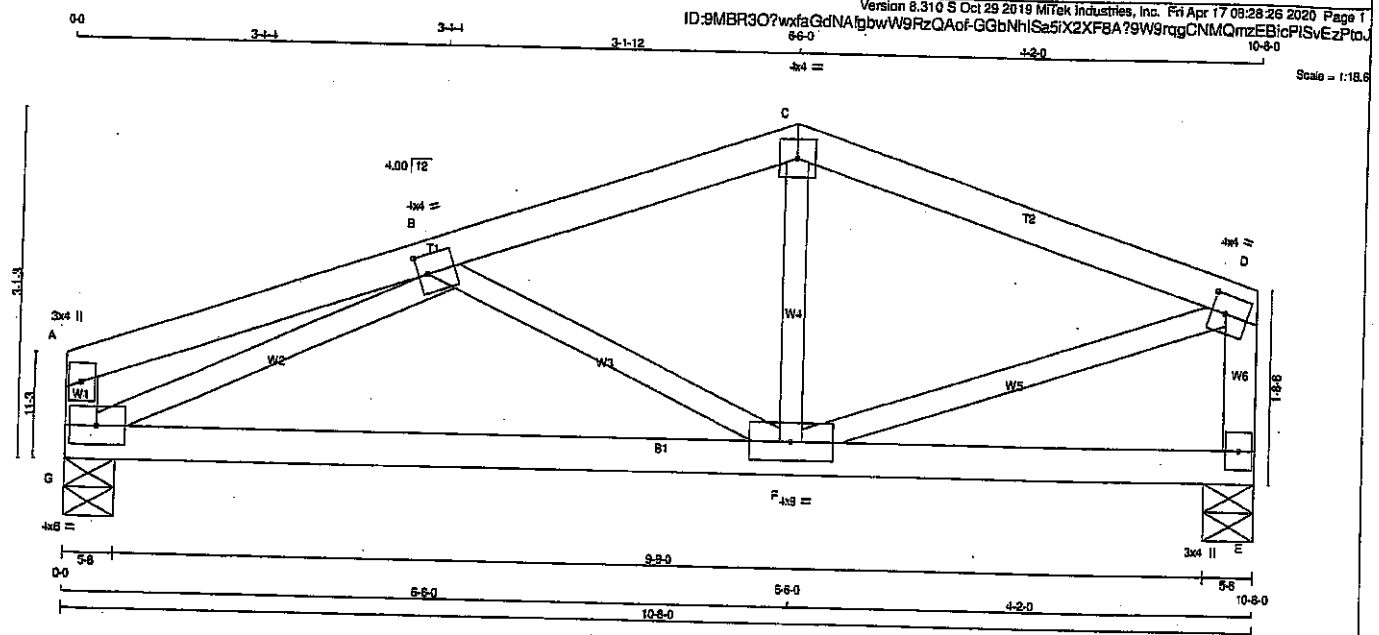
PLATE PLACEMENT TOL = 0.250 inches

PLATE ROTATION TOL = 5.0 Deg.

JSI GRIP = 0.90 (F) (INPUT = 0.90)
JSI METAL = 0.45 (D) (INPUT = 1.00)



JOB NAME 408189 Tamarack Roof Truss, Burlington	TRUSS NAME T55	QUANTITY 1	PLY 1	JOB DESC. GREEN PARK HOMES	TRUSS DESC.	DRWG NO.
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LUMBER

N. L. G. A. RULES	
CHORDS	SIZE
A - C	2x4
C - D	2x4
G - A	2x4
E - D	2x4
G - E	2x4

ALL WEBS 2x3 DRY No.2
EXCEPT

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT TYPE	PLATES	W	LEN	Y	X
A - B	MT20	3.0	4.0		
B - C	MT20	4.0	4.0	2.00	1.00
C - D	MT20	4.0	4.0		
D - E	MT20	4.0	4.0	2.00	1.50
E - F	MT20	3.0	4.0		
F - G	MT20	4.0	9.0		
G - H	MT20	4.0	6.0		

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

BEARINGS

JT	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	REQD
E	588	0	588	0	0	5-8	5-8
G	588	0	588	0	0	5-8	5-8

UNFACTORED REACTIONS

JT	1ST LCASE	MAX. MIN. COMPONENT REACTIONS	PERM. LIVE	WIND	DEAD	SOIL
E	418	273.0	0.0	0.0	143.0	0.0
G	418	273.0	0.0	0.0	143.0	0.0

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

BRACING

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

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. LC1 MAX. CS1 (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. LC1 MAX. CS1 (LC)	
FR-TO		FROM TO	LENGTH	FR-TO			
A-B	0.710	-91.8	-91.8 0.14 (1)	10.00	B-F	-269.0	0.07 (1)
B-C	-598.0	-91.8	-91.8 0.11 (1)	6.25	F-C	0.83	0.03 (4)
C-D	-598.0	-91.8	-91.8 0.21 (1)	6.25	G-B	-895.0	0.22 (1)
G-A	-121.0	0.0	0.0 0.01 (1)	7.81	F-D	0.587	0.13 (1)
E-D	-595.0	0.0	0.0 0.06 (1)	7.81			
G-F	0.793	-18.5	-18.5 0.22 (4)	10.00			
F-E	0.0	-18.5	-18.5 0.17 (4)	10.00			

TOTAL WEIGHT = 38 lb [M/F]

DESIGN CRITERIA

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

SPACING = 24.0 IN. C/C

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

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

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

ALLOWABLE DEFL. (LL) = L/360 (0.36")
CALCULATED VERT. DEFL. (LL) = U/999 (0.01")
ALLOWABLE DEFL. (TL) = L/360 (0.36")
CALCULATED VERT. DEFL. (TL) = U/999 (0.08")

CS1: TC=0.21/1.00 (C-D:1), BC=0.22/1.00 (F-G:4), WB=0.22/1.00 (B-G:1), SS=0.14/1.00 (C-D:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

NAIL VALUES
PLATE GRIP(DRY) SHEAR SECTION (PSI) (PLI) (PLI)
MAX MIN MAX MIN MAX MIN
MT20 615 354 1667 788 1987 1656

PLATE PLACEMENT TOL = 0.250 inches

PLATE ROTATION TOL = 5.0 Deg.

JSI GRIP = 0.82 (D) (INPUT = 0.80)
JSI METAL = 0.29 (B) (INPUT = 1.00)

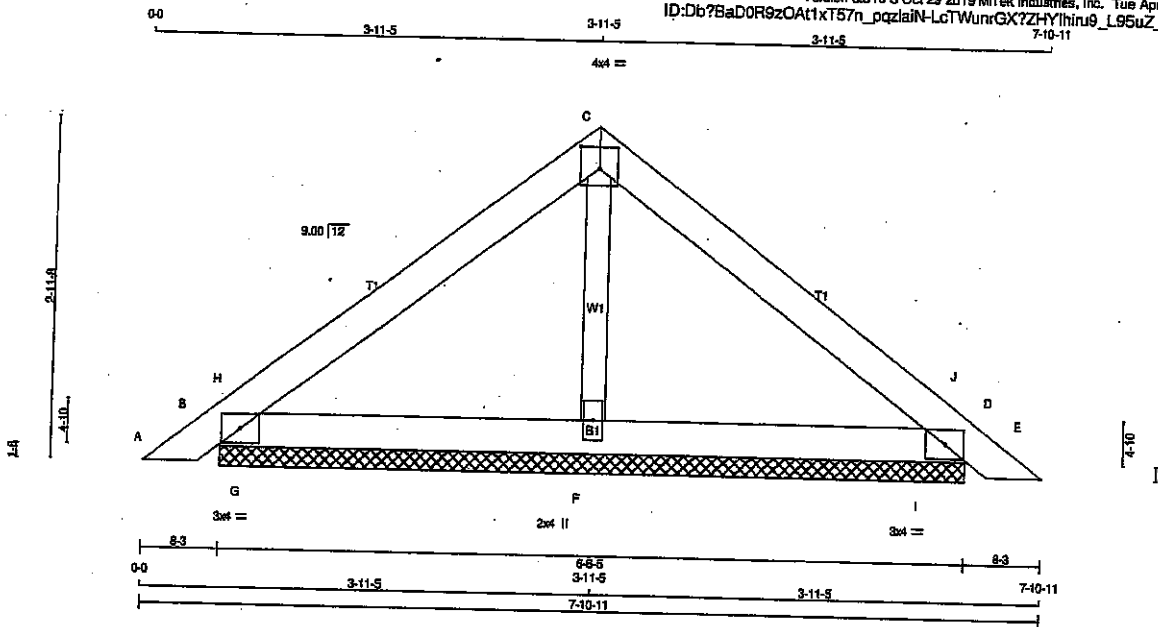


JOB NAME 408187	TRUSS NAME PB1	QUANTITY 15	PLY 1	JOB DESC. GREEN PARK HOMES	TRUSS DESC.	DRWG NO.
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Tamarack Roof Truss, Burlington

Version 8.310 S Oct 29 2019 Mitek Industries, Inc. Tue Apr 21 07:53:55 2020 Page 1
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Scale = 1:16.3



LUMBER

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

PLATES (table in inches)

JT TYPE	PLATES	W	LEN	Y	X
B TMB1-I	MT20	3.0	4.0		
C TTW-p	MT20	4.0	4.0	2.25	2.00
D TMB1-I	MT20	3.0	4.0		
F BMW1-w	MT20	2.0	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		
B	282	0	282	0	6-6-5	6-6-5
D	282	0	282	0	6-6-5	6-6-5
F	285	0	285	0	6-6-5	6-6-5

UNFACTORED REACTIONS

JT	1ST CASE		MAX. MIN. COMPONENT REACTIONS				
	COMBINED	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
B	197	142 / 0	0 / 0	0 / 0	0 / 0	56 / 0	0 / 0
D	197	142 / 0	0 / 0	0 / 0	0 / 0	56 / 0	0 / 0
F	190	111 / 0	0 / 0	0 / 0	0 / 0	78 / 0	0 / 0

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) B, D, 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.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD LC1			MAX. UNBRACED LENGTH FR-TO	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. FACTORED CSI (LC)
		FROM	TO	CSI (LC)				
FR-TO								
A-B	0 / 15	-91.8	-91.8	0.02 (1)	10.00	F-C	-118 / 0	0.02 (1)
B-H	-28 / 0	-91.8	-91.8	0.08 (1)	8.25	G-H	-295 / 0	0.00 (1)
H-C	-118 / 0	-91.8	-91.8	0.11 (1)	8.25	I-J	-295 / 0	0.00 (1)
C-J	-118 / 0	-91.8	-91.8	0.11 (1)	8.25			
J-D	-28 / 0	-91.8	-91.8	0.06 (1)	8.25			
D-E	0 / 15	-91.8	-91.8	0.02 (1)	10.00			
B-G	0 / 88	-18.5	-18.5	0.12 (1)	10.00			
G-F	0 / 88	-18.5	-18.5	0.12 (1)	10.00			
F-I	0 / 88	-18.5	-18.5	0.12 (1)	10.00			
I-D	0 / 88	-18.5	-18.5	0.12 (1)	10.00			

TOTAL WEIGHT = 15 X 20 = 307 lb

DESIGN CRITERIA

SPECIFIED LOADS:

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

SPACING = 24.0 IN. C/C

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

THIS DESIGN COMPLIES WITH:

- PART 9 OF BCBC 2018, CBC 2012, ABC 2019
- PART 9 OF CBC 2012 (2019 AMENDMENT)
- CSA 088-08, CSA 089-14
- TPIC 2011, 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

CSI: TC=0.11/1.00 (C-J-1), BC=0.12/1.00 (F-I-1), WB=0.02/1.00 (C-F-1), SS=0.22/1.00 (B-G-1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

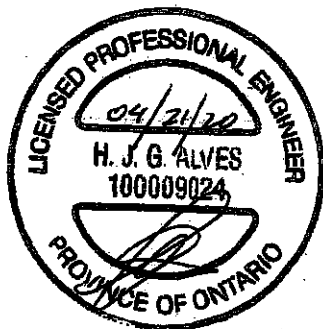
NAIL VALUES

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.24 (B) (INPUT = 0.90)
JSI METAL= 0.08 (B) (INPUT = 1.00)



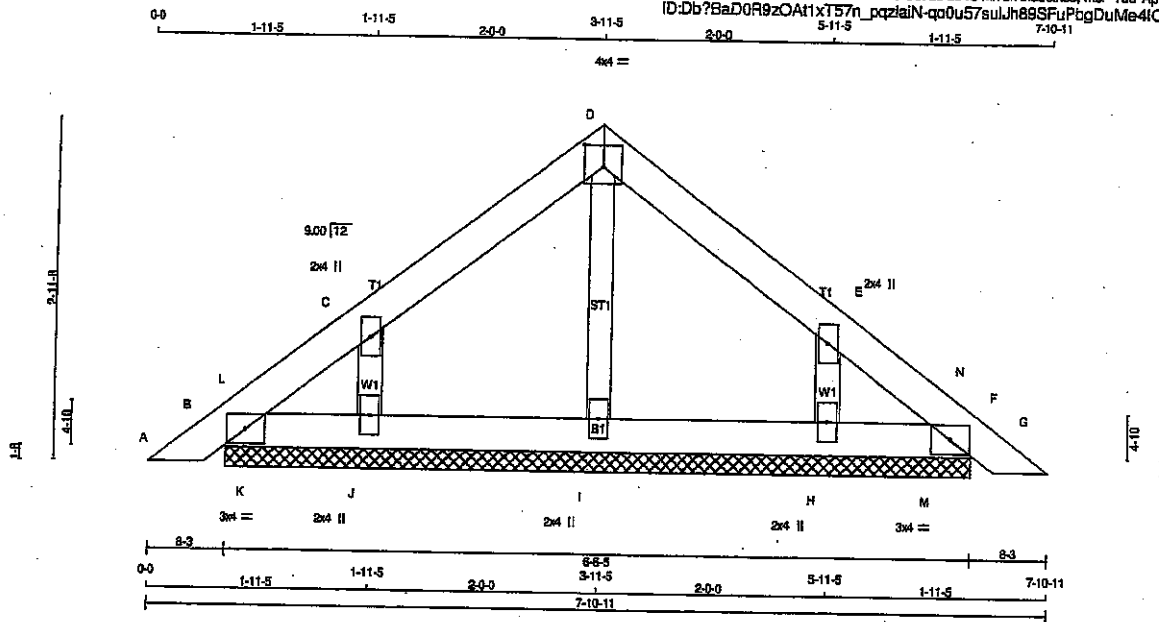
JOB NAME 408187	TRUSS NAME PB1G	QUANTITY 2	PLY 1	JOB DESC. GREEN PARK HOMES	TRUSS DESC.	DRWG NO.
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Tamarack Roof Truss, Burlington

Version 8.310 S Oct 29 2019 Mitek Industries, Inc. Tue Apr 21 07:53:56 2020 Page 1

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Scale = 1:18.3



LUMBER	DESOR.
N.L.G.A. RULES	
CHORDS SIZE	
A - D 2x4 DRY No.2	SPF
D - G 2x4 DRY No.2	SPF
B - F 2x4 DRY No.2	SPF
ALL WEBS 2x3 DRY No.2	SPF
ALL GABLE WEBS 2x3 DRY No.2	SPF
DRY: SEASONED LUMBER.	
GABLE STUDS SPACED AT 2-0-0 OC.	

PLATES (table in inches)	W	LEN	Y	X
JT TYPE				
B TMB1-I	MT20	3.0	4.0	
C TMW-w	MT20	2.0	4.0	
D TTW-p	MT20	4.0	4.0	2.25 2.00
E TMW-w	MT20	2.0	4.0	
F TMB1-I	MT20	3.0	4.0	
H, I, J				
H BMW1-w	MT20	2.0	4.0	

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 = 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.	MEMB.
MAX. FACTORED FORCE (LBS)	MAX. FACTORED FORCE (LBS)
VERT. LOAD (PL)	MAX. UNBRACED LENGTH (FT)
FROM TO	FROM TO
FR-TO	FR-TO
A-B 0/15	B-D -119/0
B-L -64/0	J-C -186/0
L-C -27/0	H-E -189/0
C-D -42/0	K-L 0/6
D-E -42/0	M-N 0/6
E-N -27/0	
N-F -64/0	
F-G 0/15	
B-K -18.5	
K-J -18.5	
J-I -18.5	
I-H -18.5	
H-M -18.5	
M-F -18.5	

TOTAL WEIGHT = 2 X 22 = 43 lb

DESIGN CRITERIA

SPECIFIED LOADS:

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

SPACING = 24.0 IN./C/C

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

THIS DESIGN COMPLIES WITH:

- PART 9 OF BCBC 2018, OBC 2012, ABC 2019
- PART 9 OF OBC 2012 (2019 AMENDMENT)
- CSA 086-08, CSA 086-14
- TPIC 2011, TPIC 2014

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

CSI: TO=0.05/1.00 (D-E:1), BC=0.02/1.00 (H-J:4),

WB=0.03/1.00 (C-J:1), SS=0.07/1.00 (D-E:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

NAIL VALUES

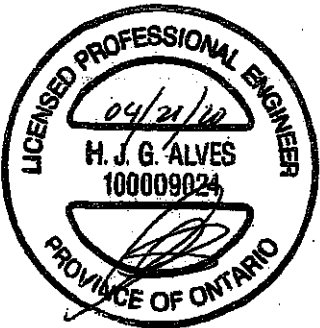
PLATE GRIP (DRY) SHEAR SECTION	PLATE GRIP (WET) SHEAR SECTION
(PSI) (PL)	(PSI) (PL)
MAX MIN MAX MIN MAX MIN	MAX MIN MAX MIN MAX MIN
MT20 618 354 1667 788 1987 1658	

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

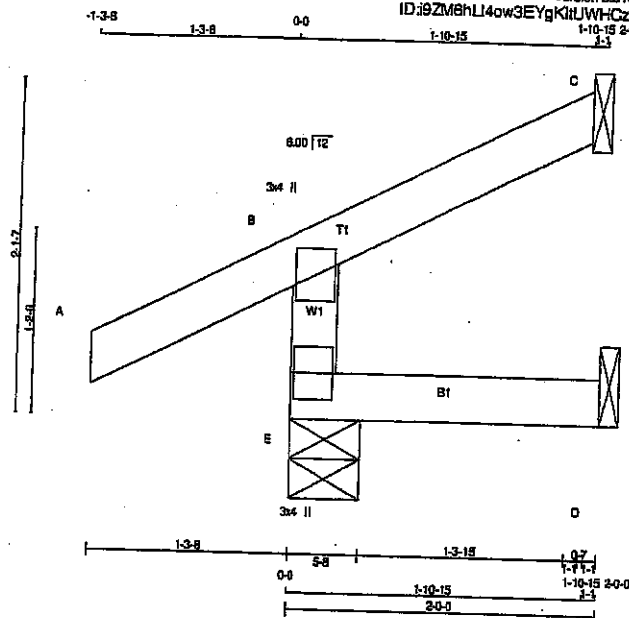
JSI GRIP = 0.13 (E) (INPUT = 0.80)

JSI METAL = 0.10 (C) (INPUT = 1.00)



JOB NAME 408204	TRUSS NAME J1	QUANTITY 3	PLY 1	JOB DESC. GREEN PARK HOMES	TRUSS DESC.	DRWG NO.
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Tamarack Flow Truss, Burlington



Scale = 1:12.4

LUMBER

N.L.G.A. RULES

CHORDS SIZE
E - B 2x4 DRY
A - C 2x4 DRY
E - D 2x4 DRY

LUMBER
No.2
No.2
No.2

DESCR.
SPF
SPF
SPF

DRY: SEASONED LUMBER.

PLATES (table is in inches)

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

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	RECORD BRG IN-SX
	VERT	HORZ	DOWN	HORZ		
E	254	0	254	0	5-8	5-8
C	86	0	86	0	1-8	1-8
D	18	0	18	0	1-8	1-8

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

UNFACTORED REACTIONS

1ST CASE		MAX/MIN. COMPONENT REACTIONS					
JT	COMBINED	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
E	177	130.0	0.0	0.0	0.0	47.0	0.0
C	46	37.0	0.0	0.0	0.0	9.0	0.0
D	13	0.0	0.0	0.0	0.0	13.0	0.0

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

BRACING

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

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

LOADING

TOTAL LOAD CASES: (5)

CHORDS			WESS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	LC1 MAX CSI (LC)	MAX. UNBRAC LENGTH FR-TO	MEMB. MAX. FACTORED FORCE (LBS)	MAX CSI (LC)
E-B	-234.0	0.0	0.0 0.01 (4)	7.81		
A-B	0.28	-91.8	-91.8 0.12 (1)	10.00		
B-C	-10.0	-91.8	-91.8 0.08 (1)	10.00		
E-D	0.0	-18.5	-18.5 0.02 (4)	10.00		

CANTILEVER ANALYSIS HAS BEEN CONSIDERED IN THIS DESIGN

TOTAL WEIGHT = 3 X 7 = 22 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 = 38.0 PSF

SPACING = 24.0 IN. C/C

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

THIS DESIGN COMPLIES WITH:

- PART 9 OF NBCC 2010, CBC 2012, ABC 2015
- PART 9 OF CBC 2012 (2019 AMENDMENT)
- CSA 086-09, CSA 086-14
- TPIC 2011, TPIC 2014

DESIGN ASSUMPTIONS

OVERHANG NOT TO BE ALTERED OR CUT OFF.
(65% OF 31.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 25.8 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL. (LL) = L/360 (0.18")
CALCULATED VERT. DEFL. (LL) = L/999 (0.00")
ALLOWABLE DEFL. (TL) = L/360 (0.18")
CALCULATED VERT. DEFL. (TL) = L/999 (0.00")

CSI: TC=0.12/1.00 (A-B-1), BC=0.02/1.00 (C-E-4), WS=0.00/1.00 (n/a-0), SSI=0.09/1.00 (A-B-1)

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

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE RIGHT HEEL ONLY

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

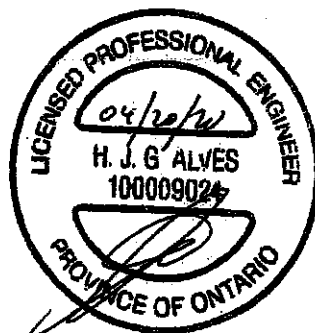
NAIL VALUES

PLATE	GRIP (DRY)	SHEAR (PSI)	SECTION (PLI)
MT20	818	354	1867 788 1987 1656

PLATE PLACEMENT TOL = 0.250 inches

PLATE ROTATION TOL = 5.0 Deg.

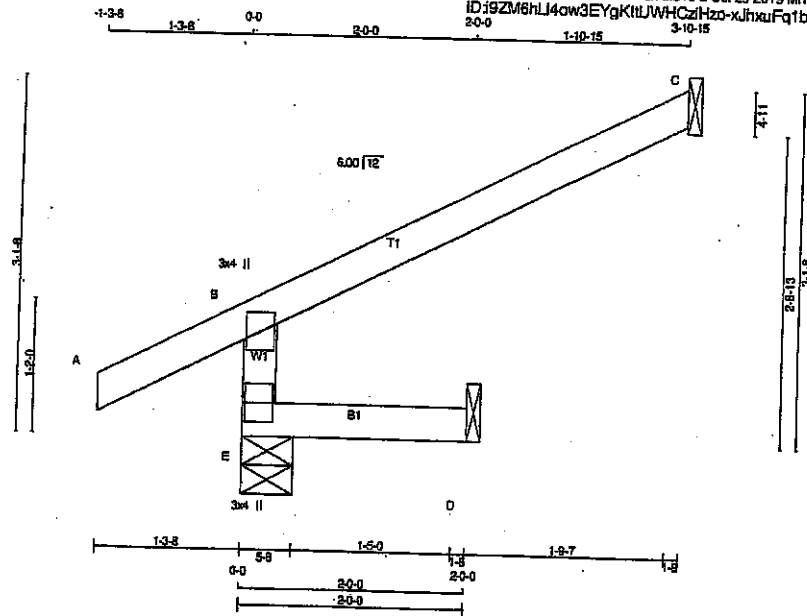
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JSI METAL = 0.06 (B) (INPUT = 1.00)



JOB NAME 408204	TRUSS NAME J2	QUANTITY 3	PLY 1	JOB DESC. GREEN PARK HOMES	DRWG NO.
Tamarack Roof Truss, Burlington				TRUSS DESC.	

Version 8.310.5 Oct 29 2019 MITek Industries, Inc. Fri Apr 17 07:47:38 2020 Page 1
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3-10-15

Scale = 1:18.5



LUMBER

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

DRY: SEASONED LUMBER.

PLATES (table is in inches)

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

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	389	0	389	0	5-8	5-8
C	135	0	135	0	1-8	1-8
D	18	0	18	0	1-8	1-8

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

UNFACTORED REACTIONS

JT	1ST LCASE		MAX/MIN. COMPONENT REACTIONS		WIND	DEAD	SOIL
	COMBINED	SNOW	LIVE	PERM. LIVE			
E	255	194 / 0	0 / 0	0 / 0	0 / 0	62 / 0	0 / 0
C	53	75 / 0	0 / 0	0 / 0	0 / 0	18 / 0	0 / 0
D	13	0 / 0	0 / 0	0 / 0	0 / 0	13 / 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		MAX. UNBRACED LENGTH	FR-TO	MEMB.	WEBS		MAX. FACTORED
	FORCE (LBS)	VERT. LOAD (PLF)	LOAD (PLF)	LCI (LC)				FORCE (LBS)	CSI (LC)	
E-B	-349 / 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	-20 / 0	-91.8	-91.8	0.24 (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 = 3 X 10 = 30 lb

DESIGN CRITERIA

SPECIFIED LOADS:
TOP CH. LL = 25.5 PSF
DL = 8.0 PSF
BOT CH. LL = 0.0 PSF
DL = 7.4 PSF
TOTAL LOAD = 39.0 PSF

SPACING = 24.0 IN/C

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

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

DESIGN ASSUMPTIONS

OVERHANG NOT TO BE ALTERED OR CUT OFF.
(65 % OF 31.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 25.6 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = L/360 (0.19")
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=0.24/1.00 (B-C:1), EC=0.02/1.00 (D-E:4),
WB=0.00/1.00 (W:0), SS=0.16/1.00 (B-C:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE RIGHT HEEL ONLY

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

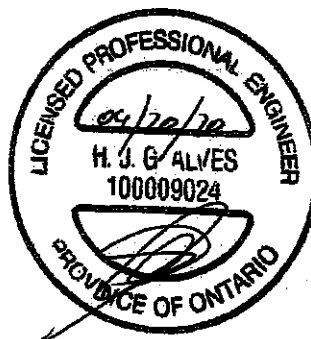
NAIL VALUES

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

PLATE PLACEMENT TOL = 0.250 inches

PLATE ROTATION TOL = 5.0 Deg.

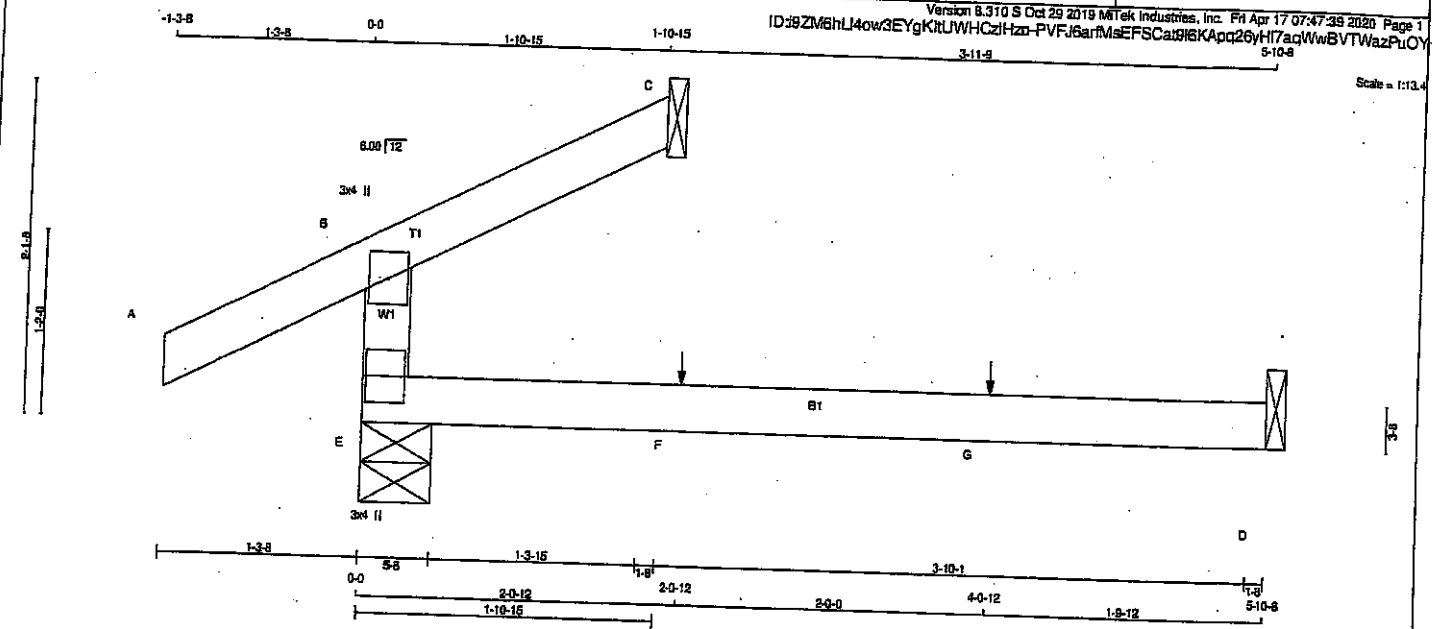
JSI GRIP= 0.15 (E) (INPUT = 0.90)
JSI METAL= 0.10 (B) (INPUT = 1.00)



JOB NAME 408204	TRUSS NAME J3	QUANTITY 3	PLY 1	JOB DESC. GREEN PARK HOMES	DRWG NO.
Tamarack Roof Truss, Burlington		TRUSS DESC.			

Version 8.310 S Oct 29 2019 Mitek Industries, Inc. Fri Apr 17 07:47:39 2020 Page 1
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5-10-8

Scale = 1:12.4



LUMBER

N. L. G. A. RULES

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

DRY: SEASONED LUMBER.

PLATES (table is in inches)

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

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 UPLIFT		
E	297	0	297	0	5-8	5-8
C	66	0	66	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	COMBINED	1ST LCASE		MAX/MIN COMPONENT REACTIONS		SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
		DOWN	UP	DOWN	UP						
E	212	130.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	82.0	0.0
C	48	37.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.0	0.0
D	36	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	36.0	0.0

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

BRACING

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

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. CSI (LC)	MAX. UNBRAC LENGTH	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. CSI (LC)
FR-TO		FROM TO	0.0 0.0	0.13 (4)	FR-TO		
E-B	-234 / 0	0.0	0.0	0.13 (4)			
A-B	0.728	-91.8	-91.8	0.12 (1)	10.00		
B-C	-10 / 0	-91.8	-91.8	0.06 (1)	10.00		
E-F	0.0	-18.5	-18.5	0.13 (4)	10.00		
F-G	0.0	-18.5	-18.5	0.13 (4)	10.00		
G-D	0.0	-18.5	-18.5	0.13 (4)	10.00		

FACTORED CONCENTRATED LOADS (LBS)

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

CONNECTION REQUIREMENTS

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

TOTAL WEIGHT = 3 X 12 = 35 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, NBCC 2010, NBCC 2015

THIS DESIGN COMPLIES WITH:
- PART 9 OF NBCC 2015, NBC 2012, ABC 2019
- PART 9 OF NBC 2012 (2019 AMENDMENT)
- CSA 086-09, CSA 086-14
- TPIC 2011, TPIC 2014

DESIGN ASSUMPTIONS

- OVERHANG NOT TO BE ALTERED OR CUT OFF.
(55 % OF 31.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 25.6 P.S.F. SPECIFIED ROOF LIVE LOAD

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) = $L/999$ (0.08")

CSI: TC=0.13/1.00 (B-E-4), BC=0.13/1.00 (D-E-4), WB=0.00/1.00 (M/L-D), SS=0.09/1.00 (A-B-1)

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

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE RIGHT HEEL ONLY

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

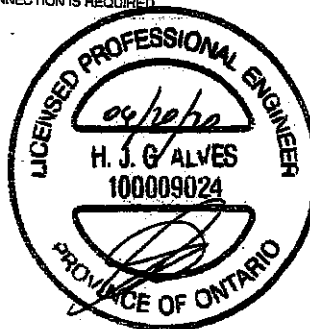
NAIL VALUES

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

PLATE PLACEMENT TOL = 0.250 inches

PLATE ROTATION TOL = 5.0 Deg.

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

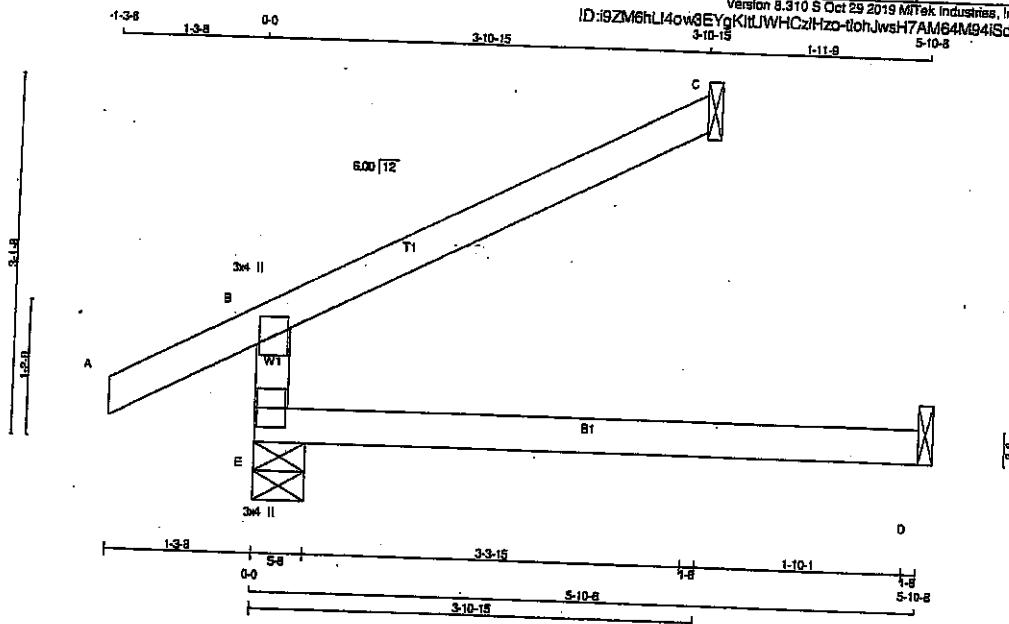


JOB NAME 408204	TRUSS NAME J4	QUANTITY 3	PLY 1	JOB DESC. GREEN PARK HOMES	TRUSS DESC.	DRWG NO.
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Tamarack Roof Truss, Burlington

Version 8.310 S Oct 29 2019 Mitek Industries, Inc. Fri Apr 17 07:47:40 2020 Page 1
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Scale = 1:18.2



LUMBER

N.L.G.A. RULES

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

DRY: SEASONED LUMBER

PLATES (table is in inches)

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

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

JT	FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG IN-SX	REQD BRG IN-SX
	VERT	HORZ	DOWN	HORZ		
E	412	0	412	0	5-8	5-8
C	135	0	135	0	1-8	1-8
D	45	0	50	0	1-8	1-8

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

UNFACTORED REACTIONS

1ST LCASE		MAX/MIN. COMPONENT REACTIONS					
JT	COMBINED	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
E	291	194 / 0	0 / 0	0 / 0	0 / 0	97 / 0	0 / 0
C	93	75 / 0	0 / 0	0 / 0	0 / 0	18 / 0	0 / 0
D	36	0 / 0	0 / 0	0 / 0	0 / 0	36 / 0	0 / 0

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

BRACING

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

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS			FACTORED			WEBS		
MEMB.	FORCE	VERT. LOAD	LC1	MAX	MAX.	MEMB.	MAX. FORCE	MAX
	(LBS)	(PLF)		CSI (LC)	UNBRACED		(LBS)	CSI (LC)
FR-TO		FROM	TO		LENGTH FR-TO			
E-B	-349 / 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	-20 / 0	-91.8	-91.8	0.24 (1)	8.25			
E-D	0 / 0	-18.5	-18.5	0.13 (4)	10.00			

TOTAL WEIGHT = 3 X 14 = 43 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, NBCC 2010, NBCC 2015

THIS DESIGN COMPLIES WITH:

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

DESIGN ASSUMPTIONS

- OVERHANG NOT TO BE ALTERED OR CUT OFF.

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

ALLOWABLE DEFL. (LL) = 1/360 (0.20")
CALCULATED VERT. DEFL. (LL) = 1/999 (0.00")
ALLOWABLE DEFL. (TL) = 1/360 (0.20")
CALCULATED VERT. DEFL. (TL) = 1/999 (0.03")

CSI: TC=0.24/1.00 (B-C:1), BC=0.13/1.00 (D-E:4), WB=0.00/1.00 (N/A:0), SS=0.18/1.00 (B-C:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE RIGHT HEEL ONLY

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

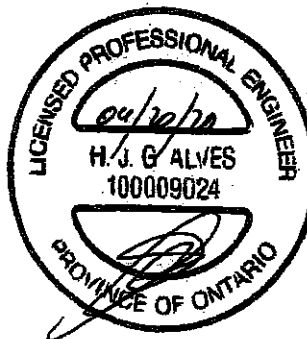
NAIL VALUES

PLATE	GRIP (DRY)	SHEAR	SECTION
	(PS)	(PL)	(PL)
	MAX	MIN	MAX
MT20	618	354	1867

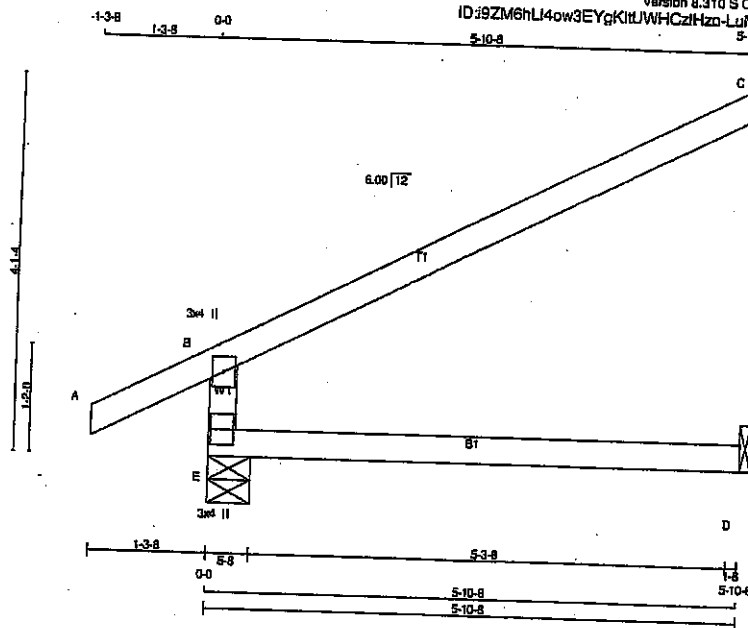
PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.15 (E) (INPUT = 0.90)
JSI METAL= 0.10 (B) (INPUT = 1.00)



JOB NAME 408204	TRUSS NAME J5	QUANTITY 9	PLY 1	JOB DESC. GREEN PARK HOMES	DRWG NO.
Tamarack Roof Truss, Burlington				TRUSS DESC.	



Version 8.310 S Oct 29 2019 Mitek Industries, Inc. Fri Apr 17 07:47:41 2020 Page 1
ID:9ZM6hL4ow3EYgKtUWHCzIHzz-LuM4XGavuUUYiWkGGA8oFEvDmyDbUjPOV_aaSzPuOW

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

LUMBER

N.L.G.A. RULES

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

DRY: SEASONED LUMBER.

PLATES (table is in inches)

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

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

BEARINGS

JT	FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG IN-SX	RECORD BRG IN-SX
	VERT	HORZ	DOWN	HORZ		
E	325	0	325	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 CASE COMBINED	MAX/MIN COMPONENT REACTIONS				
		SNOW	LIVE	PERM LIVE	WIND	DEAD
E	369	257.0	0.0	0.0	0.0	111.0
C	139	113.0	0.0	0.0	0.0	26.0
D	36	0.0	0.0	0.0	0.0	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			WEBS					
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PL)	LC1	MAX CSI (LC)	MAX. UNBRAC LENGTH FR-TO	MEMB.	MAX. FACTORED FORCE (LBS)	MAX CSI (LC)
FR-TO		FROM TO						
E-B	-461.0	0.0	0.0	0.13 (4)	7.81			
A-B	0 / 28	-91.8	-91.8	0.12 (1)	10.00			
B-C	-30.0	-91.8	-91.8	0.54 (1)	6.25			
E-D	0 / 0	-18.5	-18.5	0.13 (4)	10.00			

TOTAL WEIGHT = 9 X 17 = 151 lb

DESIGN CRITERIA

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

SPACING = 24.0 IN. C/C

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

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

DESIGN ASSUMPTIONS
OVERHANG NOT TO BE ALTERED OR CUT OFF.

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

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

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

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

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE RIGHT HEEL ONLY

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

NAIL VALUES

PLATE GRIP (DRY)	SHEAR (PSI)	SECTION (PL)
MAX MIN	MAX MIN	MAX MIN
MT20	818 354	1667 788

PLATE PLACEMENT TOL. = 0.250 inches

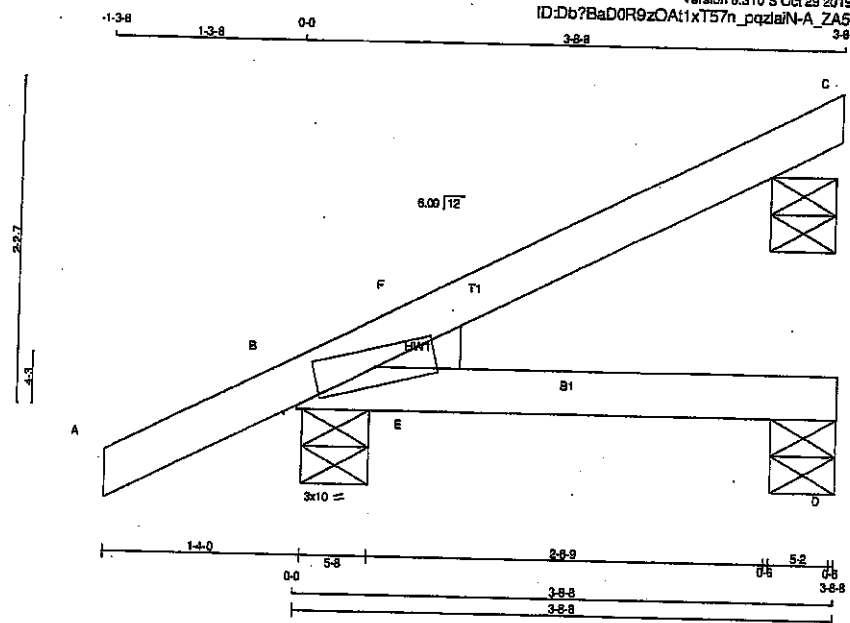
PLATE ROTATION TOL. = 5.0 Deg.

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



JOB NAME 408187 Tamarack Roof Truss, Burlington	TRUSS NAME J6	QUANTITY 7	PLY 1	JOB DESC. GREEN PARK HOMES TRUSS DESC.	DRWG NO.
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Version 8.310 S Oct 29 2019 Mitek Industries, Inc. Fri Apr 17 08:17:40 2020 Page 1
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3-8-8



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

LUMBER

N. L. G. A. RULES
CHORDS SIZE
A - C 2x4 DRY
B - D 2x4 DRY

LUMBER
No.2
No.2

DESCR.
SPF
SPF

DRY: SEASONED LUMBER.

PLATES (tablets in inches)

JT TYPE	PLATES	W	LEN	Y	X
B	TMBH1-m	MT20	3.0	10.0	

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

BEARINGS

JT	FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG IN-SX	REQD BRG IN-SX	HEEL WEDGE
	VERT	HORZ	DOWN	HORZ			
C	142	0	142	0	5-8	5-8	
B	329	0	329	0	5-8	5-8	2x4 L
D	62	0	62	0	5-8	5-8	

BEVELED PLATE OR SHIM REQUIRED TO PROVIDE FULL BEARING SURFACE WITH TRUSS CHORD AT JT(S): C

UNFACTORED REACTIONS

JT	1ST LCASE COMBINED		MAX MIN COMPONENT REACTIONS		PERM LIVE	WIND	DEAD	SOIL
	SNOW	LIVE	SNOW	LIVE				
C	99	78.0	0.0	0.0	0.0	0.0	23.0	0.0
B	230	164.0	0.0	0.0	0.0	0.0	65.0	0.0
D	46	19.0	0.0	0.0	0.0	0.0	27.0	0.0

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

BRACING

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

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

LOADING

TOTAL LOAD CASES: (5)

CHORDS				WESS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. UNBRAC LENGTH	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. UNBRAC LENGTH	
FR-TO		FROM TO		FR-TO			
A-B	0.26	-91.8	-91.8 0.13 (5)	10.00	E-F	-123.3	
B-F	-17.0	-91.8	-91.8 0.05 (4)	6.25			
F-C	0.5	-91.8	-91.8 0.15 (1)	10.00			
B-E	0.0	-18.5	-18.5 0.14 (1)	10.00			
E-D	0.0	-18.5	-18.5 0.14 (1)	10.00			

CANTILEVER ANALYSIS HAS BEEN CONSIDERED IN THIS DESIGN

DESIGN CRITERIA

SPECIFIED LOADS:
TOP CH. LL = 25.6 PSF
DL = 6.0 PSF
BOT CH. LL = 0.0 PSF
DL = 7.4 PSF
TOTAL LOAD = 38.0 PSF

SPACING = 24.0 IN. OC

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

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

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

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

CS: TC=0.15/1.00 (C-F:1), BC=0.14/1.00 (D-E:1),
WB=0.00/1.00 (E-F:1), SS=0.10/1.00 (B-E:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

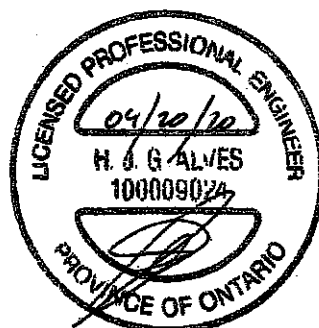
TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP=0.09 (B) (INPUT = 0.90)
JSI METAL=0.02 (B) (INPUT = 1.00)



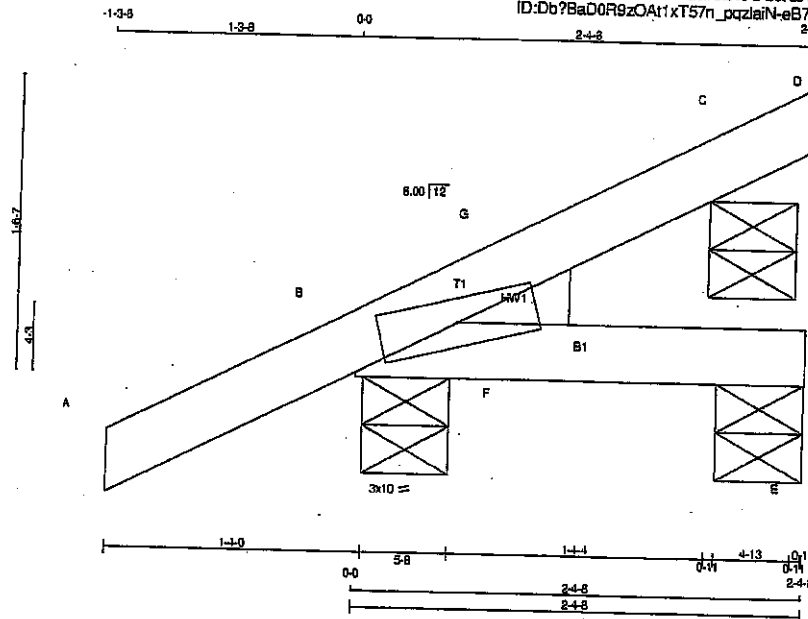
Structural component only
DWG# T-2006421

JOB NAME 408187	TRUSS NAME J7	QUANTITY 3	PLY 1	JOB DESC. GREEN PARK HOMES	TRUSS DESC.	DRWG NO.
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Tamarack Roof Truss, Burlington

Version 8.310 S Oct 29 2019 MITek Industries, Inc. Fri Apr 17 08:17:41 2020 Page 1
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Scale = 1:11.0



LUMBER

N. L. G. A. RULES
CHORDS SIZE
A - D 2x4 DRY
B - E 2x4 DRY

LUMBER
No.2
No.2

DESCR.
SPF
SPF

DRY: SEASONED LUMBER.

PLATES (tablets in inches)

JT TYPE PLATES W LEN Y X
B TMBH1-m MT20 3.0 10.0

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

BEARINGS

	FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	REORD BRG	HEEL
JT	VERT	HORZ	DOWN	HORIZ	UPLIFT
B	244	0	244	0	0
E	36	0	36	0	0
C	112	0	112	0	0

BEVELED PLATE OR SHIM REQUIRED TO PROVIDE FULL BEARING SURFACE WITH TRUSS CHORD AT JT(S): C

UNFACTORED REACTIONS

JT	1ST LCASE	MAX. MIN. COMPONENT REACTIONS	PERM. LIVE	WIND	DEAD	SOIL
	COMBINED	SNOW	LIVE			
B	170	124.0	0.0	0.0	0.0	0.0
E	27	11.0	0.0	0.0	0.0	0.0
C	78	59.0	0.0	0.0	0.0	0.0

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

BRACING

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

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

LOADING

TOTAL LOAD CASES: (5)

CHORDS	MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. FACTORED VERT. LOAD (PLF)	MAX. FACTORED HORIZ. LOAD (PLF)	MAX. FACTORED LENGTH FR-TO	W E B S	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. FACTORED HORIZ. LOAD (PLF)
FR-TO										
A-B	0.26	-91.8	-91.8	0.12 (5)	10.00	8.25	F-G	-40.8	0.00 (1)	10.00
B-G	-16.0	-91.8	-91.8	0.04 (1)	8.25	10.00				
G-C	0.10	-91.8	-91.8	0.05 (1)	10.00					
C-D	-7.0	-91.8	-91.8	0.01 (1)	10.00					
B-F	0.0	-18.5	-18.5	0.05 (1)	10.00					
F-E	0.0	-18.5	-18.5	0.05 (1)	10.00					

CANTILEVER ANALYSIS HAS BEEN CONSIDERED IN THIS DESIGN

TOTAL WEIGHT = 3 X 8 = 25 lb [M]

DESIGN CRITERIA

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

SPACING = 24.0 IN./C

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

THIS DESIGN COMPLIES WITH:
- PART 9 OF BCBC 2018, OBC 2012, ABC 2019
- PART 9 OF OBC 2012 (2019 AMENDMENT)
- CSA 086-08, CSA 086-14
- TPIC 2011, TPIC 2014

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

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

CSI: TD=0.12/1.00 (A-B-5), BC=0.05/1.00 (E-F-1), WB=0.00/1.00 (F-G-1), SS=0.09/1.00 (A-B-5)

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

COMPANION LIVE LOAD FACTOR = 1.00

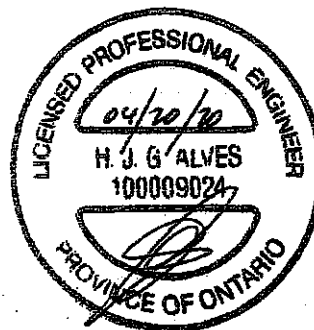
TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

NAIL VALUES
PLATE GRIP(DRY) SHEAR SECTION (PSI) (PLI) (PLI)
MAX MIN MAX MIN MAX MIN
MT20 618 354 1667 788 1967 1666

PLATE PLACEMENT TOL = 0.250 inches

PLATE ROTATION TOL = 5.0 Deg.

JSI GRIP = 0.05 (B) (INPUT = 0.90)
JSI METAL = 0.01 (B) (INPUT = 1.00)



Structural component only
DWG# T-2006422

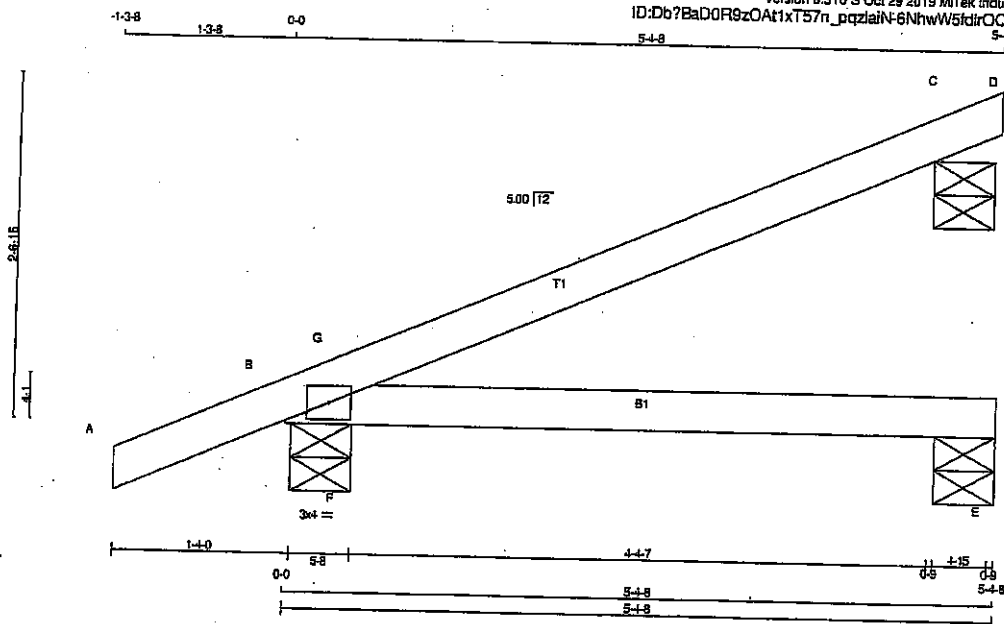
JOB NAME 408187	TRUSS NAME J8	QUANTITY 7	PLY 1	JOB DESC. GREEN PARK HOMES	TRUSS DESC.	DRWG NO.
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Tamarack Roof Truss, Burlington

Version 8.310 S Oct 29 2019 MITek Industries, Inc. Fri Apr 17 08:17:42 2020 Page 1

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Scale = 1:15.7



LUMBER

N. L. & A. RULES

CHORDS SIZE

A - D 2x4 DRY

B - E 2x4 DRY

DRY: SEASONED LUMBER.

LUMBER
No.2
No.2

DESCR.
SPF
SPF

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TM81-I	MT20	3.0	4.0		

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

BEARINGS

JT	FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	REQD BRG
	VERT	DOWN	IN-SX	IN-SX
B	409	0	0	0
E	76	0	5-8	5-8
C	237	0	5-8	5-8

BEVELED PLATE OR SHIM REQUIRED TO PROVIDE FULL BEARING SURFACE WITH TRUSS CHORD AT JTS: C

UNFACTORED REACTIONS

JT	1ST CASE	MAX. MIN. COMPONENT REACTIONS	PERM. LIVE	WIND	DEAD	SOIL
	COMBINED	SNOW	LIVE			
B	287	200.0	0.0	0.0	86.0	0.0
E	57	19.0	0.0	0.0	36.0	0.0
C	184	128.0	0.0	0.0	36.0	0.0

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

BRACING

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

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

LOADING

TOTAL LOAD CASES: (4)

MEMB.	CHORDS	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. LC1	MAX. LC2	UNBRACED LENGTH	FR-TO	WEBS	MAX. FACTORED FORCE (LBS)	MAX. LC1	MAX. LC2
A-B	0	23	-91.8	-91.8	0.12 (1)	10.00		F-G	-289	23	0.00 (1)
B-G	-26	22	-91.8	-91.8	0.06 (4)	6.25					
G-C	-2	2	-91.8	-91.8	0.32 (1)	10.00					
C-D	-8	0	-91.8	-91.8	0.01 (1)	10.00					
B-F	0	0	-18.5	-18.5	0.20 (1)	10.00					
F-E	0	0	-18.5	-18.5	0.21 (1)	10.00					

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH.	LL = 25.6	PSF
DL =	5.0	PSF
BOT CH.	LL = 0.0	PSF
DL =	7.4	PSF
TOTAL LOAD	= 39.0	PSF

SPACING = 24.0 IN. C/C

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

THIS DESIGN COMPLIES WITH:
- PART 9 OF BCBC 2018, OBC 2012, ABC 2019
- PART 9 OF OBC 2012 (2019 AMENDMENT)
- CSA 085-09, CSA 086-14
- TPIC 2011, TPIC 2014

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

ALLOWABLE DEFL.(LL) = L/360 (0.19")
CALCULATED VERT. DEFL.(LL) = L/999 (0.04")
ALLOWABLE DEFL.(TL) = L/360 (0.19")
CALCULATED VERT. DEFL.(TL) = L/708 (0.08")

CSI: TC=0.32/1.00 (C-G:1) . BC=0.21/1.00 (E-F:1) .
WB=0.00/1.00 (F-G:1) . SSI=0.24/1.00 (B-F:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

NAIL VALUES

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

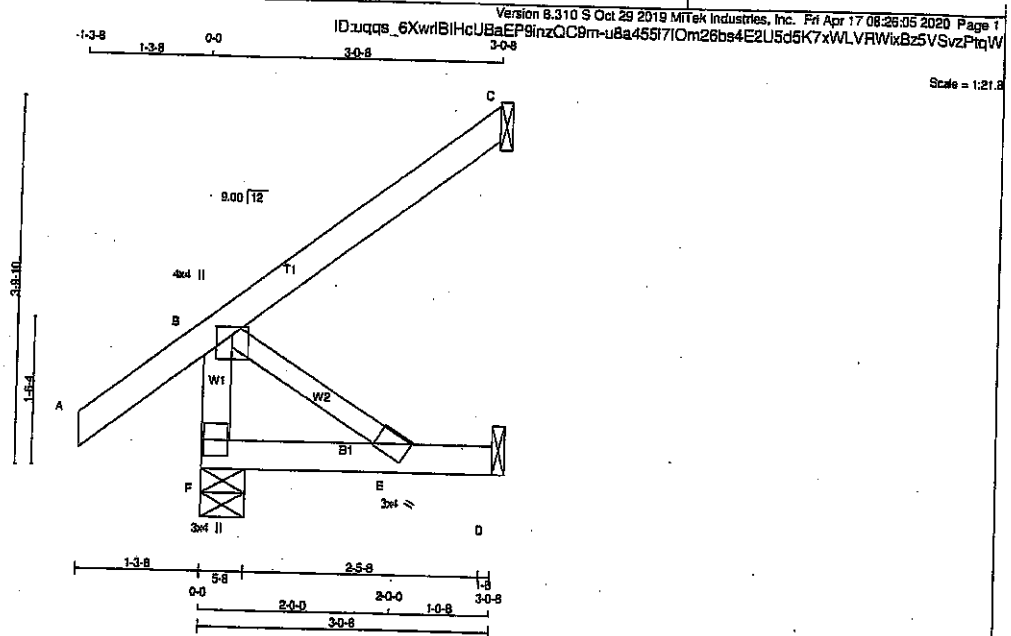
PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.29 (B) (INPUT = 0.30)
JSI METAL= 0.07 (B) (INPUT = 1.00)



JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
408188	J30	4	1	GREEN PARK HOMES	
Tamarack Roof Truss, Burlington					



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 in inches)

JT TYPE	PLATES	W	LEN	Y	X
B TMVW+p	MT20	4.0	4.0	1.00	2.00
E BMVW+w	MT20	3.0	4.0		
F BMV1+p	MT20	3.0	4.0		

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

JT	FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG		RECORD BRG	
	VERT	HORZ	DOWN	HORZ	IN-SX	IN-SX		
F	294	0	294	0	5-8	5-8		
C	140	0	140	0	1-8	1-8		
D	28	0	32	0	1-8	1-8		

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

UNFACTORED REACTIONS

1ST CASE		MAX/MIN. COMPONENT REACTIONS					
JT	COMBINED	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
F	206	148.0	0.0	0.0	0.0	57.0	0.0
C	98	78.0	0.0	0.0	0.0	18.0	0.0
D	23	0.0	0.0	0.0	0.0	23.0	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 = 10.00 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

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

LOADING

TOTAL LOAD CASES: (5)

CHORDS					WEBS				
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PL)	LOAD L1 (PL)	MAX CSI (LC)	MAX. UNBRACED LENGTH	MEMB.	MAX. FACTORED FORCE (LBS)	MAX CSI (LC)	
FR-TO		FROM	TO			FR-TO			
F-B	-268	0.0	0.0	0.03 (1)	7.81	B-E	0.0	0.00 (1)	
A-B	0.38	-91.8	-91.8	0.13 (5)	10.00				
B-C	0.0	-91.8	-91.8	0.14 (1)	10.00				
F-E	0.0	-18.5	-18.5	0.05 (4)	10.00				
E-D	0.0	-18.5	-18.5	0.05 (4)	10.00				

CANTILEVER ANALYSIS HAS BEEN CONSIDERED IN THIS DESIGN

TOTAL WEIGHT = 4 X 13 = 52 lb

DESIGN CRITERIA

SPECIFIED LOADS:

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

SPACING = 24.0 IN. C/C

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

THIS DESIGN COMPLIES WITH:
- PART 9 OF BCBC 2018, CBC 2012, ABC 2019
- PART 9 OF CBC 2012 (2019 AMENDMENT)
- CSA 086-08, CSA 086-14
- TPIC 2011, TPIC 2014

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

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

CS: TC=0.14/1.00 (B-C:1), BC=0.05/1.00 (E-F:4), WB=0.00/1.00 (B-E:1), SSI=0.09/1.00 (B-C:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE RIGHT HEEL ONLY

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

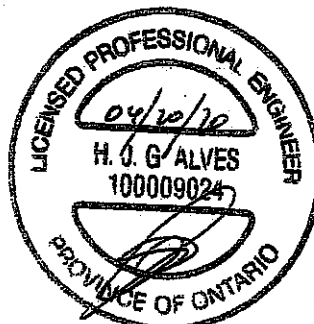
NAIL VALUES

PLATE GRIP (DRY)	SHEAR (PL)	SECTION (PL)
MAX MIN	MAX MIN	MAX MIN
MT20	818 354	1667 788

PLATE PLACEMENT TOL = 0.250 inches

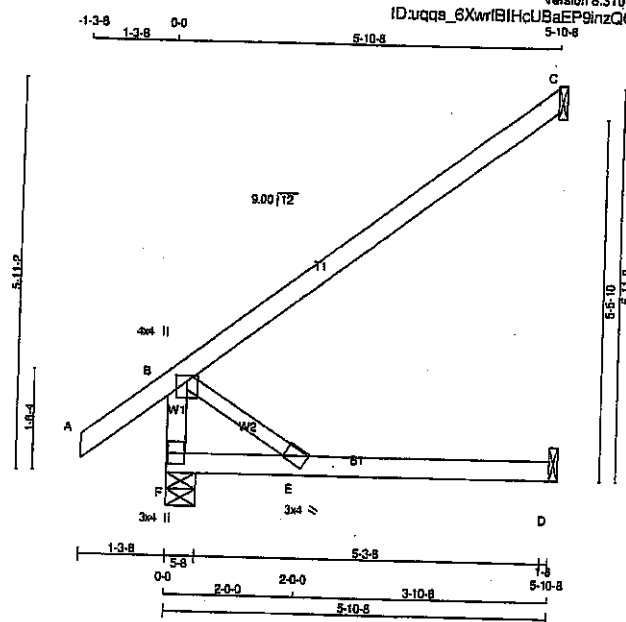
PLATE ROTATION TOL = 5.0 Deg.

JSI GRIP=0.21 (B) (INPUT = 0.90)
JSI METAL=0.05 (B) (INPUT = 1.00)



JOB NAME 408188	TRUSS NAME J31	QUANTITY 4	PLY 1	JOB DESC. GREEN PARK HOMES	TRUSS DESC.	DRWG NO.
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Tamarack Roof Truss, Burlington



Version 8.310 S Oct 29 2019 Mitek Industries, Inc. Fri Apr 17 08:26:06 2020 Page 1
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Scale: 3/8" = 1'-0"

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

PLATES (tablets in inches)					
JT	TYPE	PLATES	W	LEN	Y
B	TMVW+p	MT20	4.0	4.0	1.00
E	BMW+w	MT20	3.0	4.0	
F	BMV1+p	MT20	3.0	4.0	

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

JT	FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG IN-SX	REQD BRG IN-SX
	VERT	HORZ	DOWN	HORZ UPLIFT		
F	450	0	450	0	5-8	5-8
C	270	0	270	0	1-8	1-8
D	54	0	61	0	1-8	1-8

SEE MITEK STANDARD DETAIL B97791 H FOR CONNECTION TO JOINT(S) C, D

UNFACTORED REACTIONS

JT	1ST CASE COMBINED	MAX./MIN. COMPONENT REACTIONS				
		SNOW	LIVE	PERM.LIVE	WIND	DEAD
F	316	221	0	0	0	95
C	188	150	0	0	0	35
D	43	0	0	0	0	43

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: (4)

MEMB.	CHORDS MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	LC1 MAX. CSI (LC)	MAX. UNBRACED LENGTH	FR-TO	WEBS	
						MEMB. MAX. FACTORED FORCE (LBS)	MAX. CSI (LC)
F-B	-396	0	0.0	0.0	0.04 (1)	7.81	
A-B	0	38	-91.8	-91.8	0.12 (1)	10.00	
B-C	0	0	-91.8	-91.8	0.54 (1)	10.00	
F-E	0	0	-18.5	-18.5	0.17 (4)	10.00	
E-D	0	0	-18.5	-18.5	0.19 (4)	10.00	

TOTAL WEIGHT = 4 X 20 = 81 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 2010, NBCC 2015

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

(55 % OF 31.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 25.8 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 (0.05")

CSI: TC=0.54/1.00 (B-C:1), BC=0.19/1.00 (D-E:4), WB=0.00/1.00 (B-E:1), SS=0.17/1.00 (B-C:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE RIGHT HEEL ONLY

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

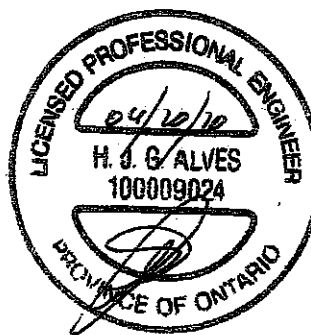
NAIL VALUES

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

PLATE PLACEMENT TOL = 0.250 inches

PLATE ROTATION TOL = 5.0 Deg.

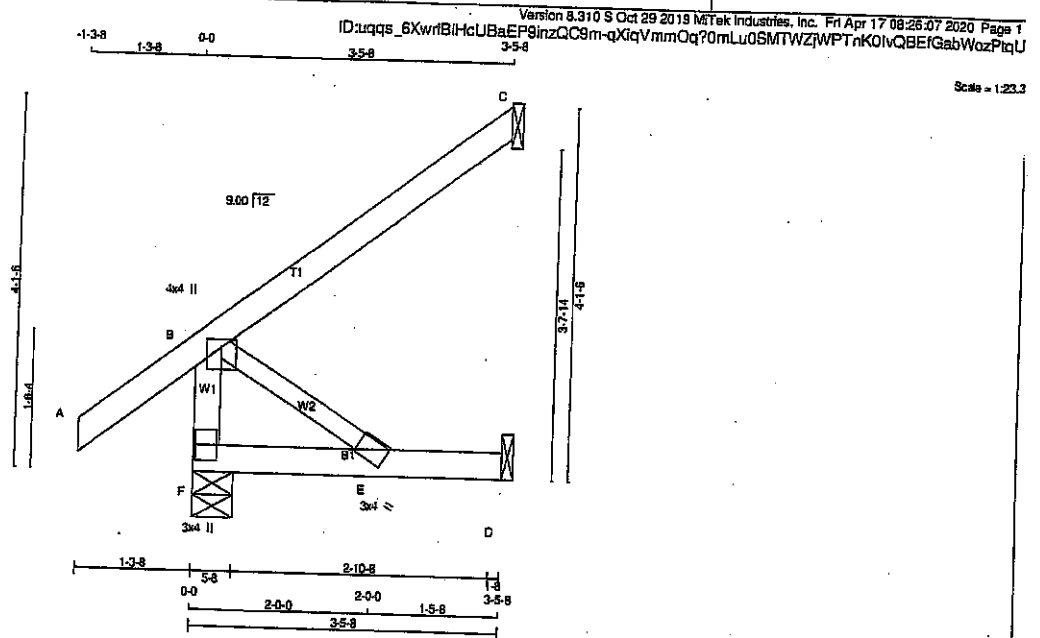
JSI GRIP= 0.32 (B) (INPUT = 0.90)
JSI METAL= 0.08 (B) (INPUT = 1.00)



Structural component only
DWG# T-2006236

JOB NAME 408188	TRUSS NAME J32	QUANTITY 4	PLY 1	JOB DESC. GREEN PARK HOMES	TRUSS DESC.	DRWG NO.
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Tamarack Roof Truss, Burlington



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

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	BMVW+w	MT20	3.0	4.0		
F	BMV1+p	MT20	3.0	4.0		

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

JT	FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG	RECORD BRG
	VERT	HORZ	DOWN	HORZ		
F	317	0	317	0	5-8	5-8
C	159	0	159	0	1-8	1-8
D	32	0	36	0	1-8	1-8

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

UNFACTORED REACTIONS

1ST CASE		MAX./MIN. COMPONENT REACTIONS					
JT	COMBINED	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
F	222	159.0	0.0	0.0	0.0	63.0	0.0
C	109	88.0	0.0	0.0	0.0	21.0	0.0
D	26	0.0	0.0	0.0	0.0	26.0	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 FITCH 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)	LOAD LCT	MAX CSI (LC)	MAX. UNBRAC LENGTH	MEMB.	MAX. FACTORED FORCE (LBS)	MAX CSI (LC)	
FR-TO		FROM TO				FR-TO			
F-B	-285.0	0.0	0.0	0.03 (1)	7.81	B-E	0.0	0.00 (1)	
A-B	0.38	-81.8	-81.8	0.14 (5)	10.00				
B-C	0.0	-81.8	-81.8	0.19 (1)	10.00				
F-E	0.0	-18.5	-18.5	0.08 (4)	10.00				
E-D	0.0	-18.5	-18.5	0.08 (4)	10.00				

CANTILEVER ANALYSIS HAS BEEN CONSIDERED IN THIS DESIGN

TOTAL WEIGHT = 4 X 14 = 56 lb

DESIGN CRITERIA

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

SPACING = 24.0 IN. C/C

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

THIS DESIGN COMPLIES WITH:

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

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

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

CSI: TC=0.19/1.00 (B-C:1), BC=0.08/1.00 (E-F:4), WB=0.00/1.00 (B-E:1), SSE=0.10/1.00 (B-C:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE RIGHT HEEL ONLY

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

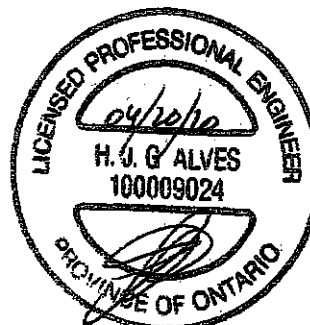
NAIL VALUES

PLATE	GRIP(DRY)	SHEAR (PSI)	SECTION (PL)
MT20	618	354	1867 788 1987 1656

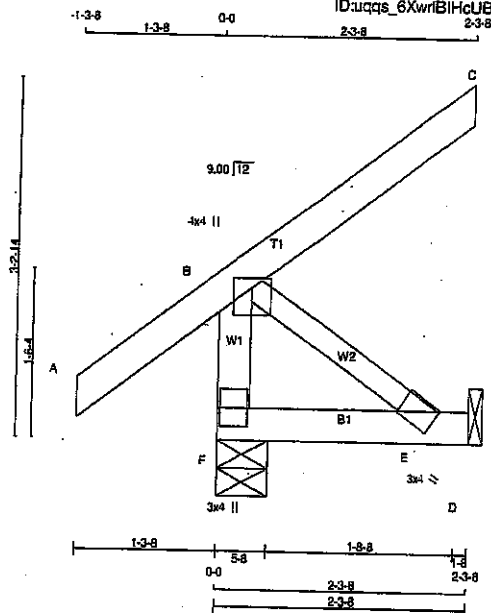
PLATE PLACEMENT TOL = 0.250 inches

PLATE ROTATION TOL = 5.0 Deg.

JSI GRIP = 0.23 (B) (INPUT = 0.90)
JSI META = 0.06 (B) (INPUT = 1.00)



JOB NAME 408188	TRUSS NAME J33	QUANTITY 1	PLY 1	JOB DESC. GREEN PARK HOMES	DRWG NO.
Tamarack Roof Truss, Burlington		Version 8.310 8 Oct 29 2019 MITek Industries, Inc. Fri Apr 17 08:26:09 2020 Page 1			



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

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

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

BEARINGS		FACTORED		MAXIMUM FACTORED		INPUT		RECORD	
JT	VERT	GROSS REACTION	DOWN	GROSS REACTION	DOWN	BRG	IN-SX	BRG	IN-SX
F	368	0	368	0	0	5-8	5-8	5-8	5-8
D	21	0	24	0	0	1-8	1-8	1-8	1-8

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

UNFACTORED REACTIONS

JT	1ST LCASE	MAX. MIN. COMPONENT REACTIONS	PERM. LIVE	WIND	DEAD	SOIL
F	254	192.0	0.0	0.0	62.0	0.0
D	17	0.0	0.0	0.0	17.0	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		WEBS	
MEMB.	MAX. FACTORED FORCE (LBS)	MEMB.	MAX. FACTORED FORCE (LBS)
FR-TO		FR-TO	
F-B	-345.0	B-E	0.0
A-B	0.38		
B-C	-65.0		
F-E	0.0		
E-D	0.0		

CANTILEVER ANALYSIS HAS BEEN CONSIDERED IN THIS DESIGN

TOTAL WEIGHT = 11 lb

DESIGN CRITERIA

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

SPACING = 24.0 IN. C/C

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

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

DESIGN ASSUMPTIONS

OVERHANG NOT TO BE ALTERED OR CUT OFF.

155 % OF 31.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 25.6 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = L/360 (0.19")
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=0.36/1.00 (B-C:1), BC=0.03/1.00 (E-F:4), WB=0.00/1.00 (B-E:1), SS=0.14/1.00 (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

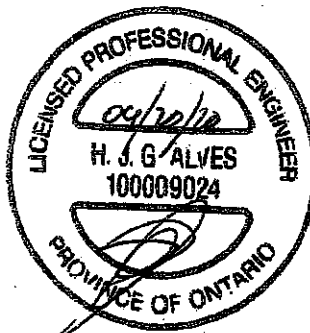
TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

NAIL VALUES
PLATE GRIP(DRY) SHEAR SECTION (PSI) (PLI) (PLI)
MAX MIN MAX MIN MAX MIN
MT20 818 354 1667 788 1987 1656

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

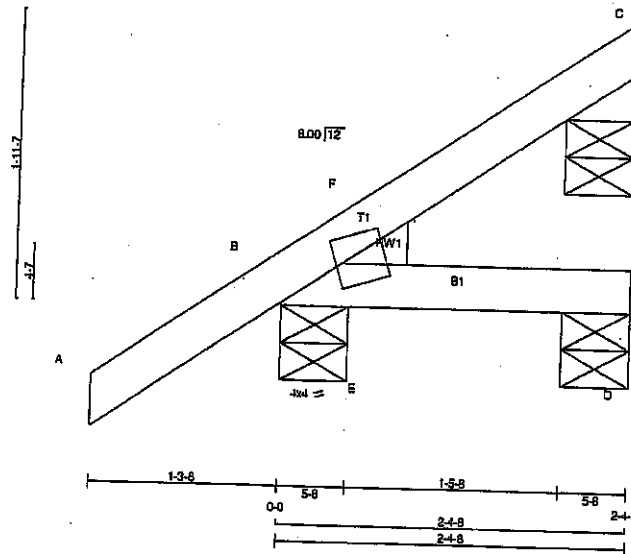
JSI GRIP = 0.27 (B) (INPUT = 0.90)
JSI METAL = 0.07 (B) (INPUT = 1.00)



JOB NAME 408188	TRUSS NAME J34	QUANTITY 6	PLY 1	JOB DESC. GREEN PARK HOMES	DRWG NO.
Tamarack Roof Truss, Burlington				TRUSS DESC.	

Version 8.310 S Oct 29 2019 MTek Industries, Inc. Fri Apr 17 08:28:10 2020 Page 1
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Scale = 1:14.2



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	TMBH1-m	MT20	4.0	4.0	2.00	0.50

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	HEEL WEDGE
	VERT	HORZ	DOWN	HORZ			
C	89	0	89	0	5-8	5-8	
B	257	0	257	0	5-8	5-8	
D	42	0	42	0	5-8	5-8	2x4 L

BEVELED PLATE OR SHIM REQUIRED TO PROVIDE FULL BEARING SURFACE WITH TRUSS CHORD AT JT(S): C

UNFACTORED REACTIONS

JT	1ST CASE COMBINED	MAX./MIN. COMPONENT REACTIONS					
		SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
C	62	47.0	0.0	0.0	0.0	14.0	0.0
B	179	131.0	0.0	0.0	0.0	48.0	0.0
D	31	13.0	0.0	0.0	0.0	18.0	0.0

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

BRACING

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

FR-TO	CHORDS		WEBS	
	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. FACTORED FORCE (LBS)	MAX. FACTORED VERT. LOAD (PLF)
A-B	0.34	-91.8	-91.8	0.13 (5)
B-F	-15.0	-91.8	-91.8	0.02 (1)
F-C	0.5	-91.8	-91.8	0.06 (1)
B-E	0.0	-18.5	-18.5	0.06 (1)
E-D	0.0	-18.5	-18.5	0.06 (1)

CANTILEVER ANALYSIS HAS BEEN CONSIDERED IN THIS DESIGN

TOTAL WEIGHT = 6 X 8 = 51 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	= 35.0 PSF

SPACING = 24.0 IN/C

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

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

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

ALLOWABLE DEFL. (LL) = $L/360$ (0.19")
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-B-5), $BC=0.08/1.00$ (B-E-1),
 $WB=0.00/1.00$ (E-F-1), $SSI=0.08/1.00$ (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

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

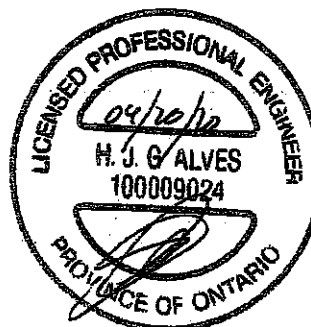
NAIL VALUES

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

PLATE PLACEMENT TOL = 0.250 inches

PLATE ROTATION TOL = 5.0 Deg.

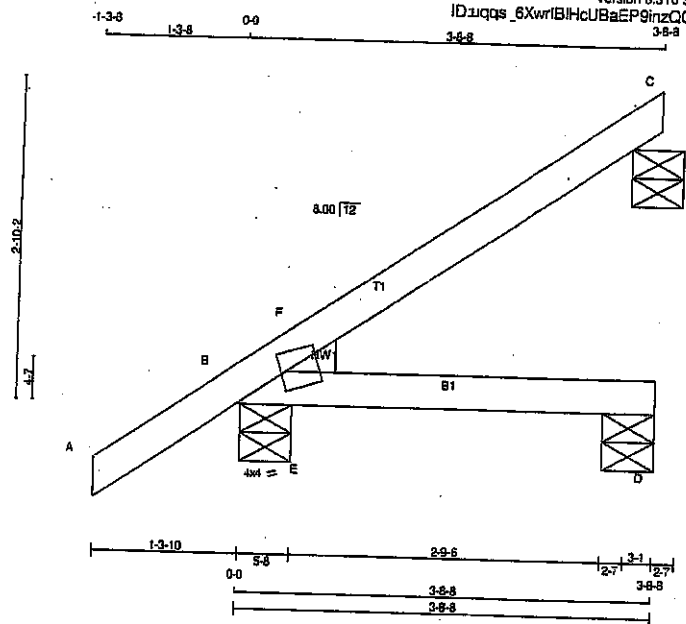
JSI GRIP = 0.16 (B) (INPUT = 0.80)
JSI METAL = 0.04 (B) (INPUT = 1.00)



Structural component only
DIAGRAM T. 00000000

JOB NAME 408188	TRUSS NAME J35	QUANTITY 4	PLY 1	JOB DESC. GREEN PARK HOMES	DRWG NO.
Tamarack Roof Truss, Burlington				TRUSS DESC.	

Version 8.310 S Oct 29 2019 Mitek Industries, Inc. Fri Apr 17 08:26:11 2020 Page 1
 ID: uqqs_6XwriBIHcUBaEP9inzQC9m-jlxLL8qutEXCqWKEbJbVtMa8HxMzrEBqZuYpfZzPtqC
 Scale = 1:16.6



LUMBER

N. L. G. A. RULES
 CHORDS SIZE
 A - C 2x4 DRY
 B - D 2x4 DRY

LUMBER...
 No.2
 No.2

DESCR.
 SPF
 SPF

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMBH1-m	MT20	4.0	4.0	2.00	0.50

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	HEEL WEDGE
	VERT	HORZ	DOWN	HORZ			
C	144	0	144	0	5-8 (3-1)	5-8	
B	330	0	330	0	5-8	5-8	
D	61	0	61	0	5-8	5-8	2x4 L

VALUE IN PARENTHESIS INDICATES EFFECTIVE BEARING LENGTH

BEVELED PLATE OR SHIM REQUIRED TO PROVIDE FULL BEARING SURFACE WITH TRUSS CHORD AT JT(S): C

UNFACTORED REACTIONS

JT	COMBINED	MAX. MIN. COMPONENT REACTIONS		PERM. LIVE	WIND	DEAD	SOIL
		SNOW	LIVE				
C	99	77.0	0.0	0.0	0.0	22.0	0.0
B	231	185.0	0.0	0.0	0.0	66.0	0.0
D	45	18.0	0.0	0.0	0.0	27.0	0.0

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 6.25 FT.
 MAX. UNSPACED 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.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)		MAX. UNBRAC LENGTH	W E B S	MAX. FACTORED FORCE (LBS)	MAX. CS (ILC)
		FROM	TO				
FR-TO							
A-B	0.34	-91.8	-91.8	0.14 (5)	10.00	E-F	-155.0
B-F	-16.0	-91.8	-91.8	0.04 (4)	6.25		
F-C	0.3	-91.8	-91.8	0.15 (1)	10.00		
B-E	0.0	-18.5	-18.5	0.14 (1)	10.00		
E-D	0.0	-18.5	-18.5	0.14 (1)	10.00		

CANTILEVER ANALYSIS HAS BEEN CONSIDERED IN THIS DESIGN

TOTAL WEIGHT = 4 X 12 = 47 lb

DESIGN CRITERIA

SPECIFIED LOADS:

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

SPACING = 24.0 IN. C/C

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

THIS DESIGN COMPLIES WITH:

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

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

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

CSI: TC=0.15/1.00 (C-F:1), BC=0.14/1.00 (B-E:1), WB=0.00/1.00 (E-F:1), SS=0.13/1.00 (B-E:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

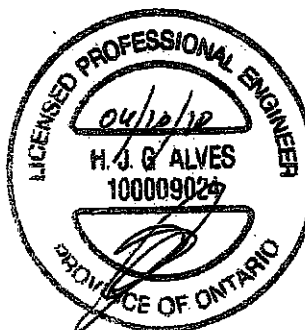
NAIL VALUES

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP = 0.22 (B) (INPUT = 0.90)
 JSI METAL = 0.05 (B) (INPUT = 1.00)

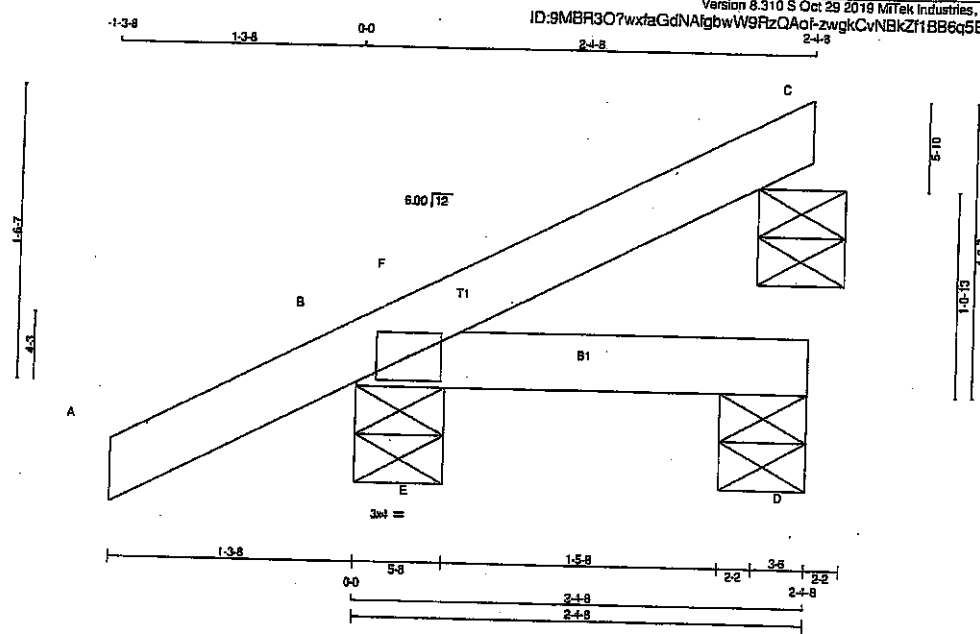


JOB NAME 408189	TRUSS NAME J51	QUANTITY 6	PLY 1	JOB DESC. GREEN PARK HOMES	TRUSS DESC.	DRWG NO.
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Tamarack Roof Truss, Burlington

Version 8.310 S Oct 29 2019 Mitek Industries, Inc. Fri Apr 17 08:28:19 2020 Page 1
ID:9MBR3O?wxfaGdNAlgbwW9RzQAof-zwgkCvNBkZt1BB6q5BuW3Mt1TX4oq7lg7pZa98zPtoQ

Scale = 1:11.0



LUMBER
N. L. G. A. RULES
CHORDS SIZE DRY LUMBER
A - C 2x4 DRY No.2
B - D 2x4 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 TMB1-1	MT20	3.0	4.0		

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.

SEVELED PLATE OR SHIM REQUIRED TO PROVIDE FULL BEARING SURFACE WITH TRUSS CHORD AT JT(S); C
BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S)

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

LOADING
TOTAL LOAD CASES: (5)

CHORDS				WEBS			
MEMB.	FORCE (LBS)	VERT. LOAD (PLF)	MAX. UNBRACED LENGTH (LC)	MEMB.	FORCE (LBS)	MAX. UNBRACED LENGTH (LC)	MAX. FACTORED FORCE (LBS)
FR-TO		FROM TO		FR-TO			
A-B	0.25	-91.8 -91.8	0.12 (5)	E-F	-95	2	0.00 (1)
B-F	-9.0	-91.8 -91.8	0.02 (4)				
F-C	0.2	-91.8 -91.8	0.06 (1)				
B-E	0.0	-18.5 -18.5	0.05 (1)				
E-D	0.0	-18.5 -18.5	0.05 (1)				

CANTILEVER ANALYSIS HAS BEEN CONSIDERED IN THIS DESIGN

TOTAL WEIGHT = 6 X 8 = 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. OC

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

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

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

ALLOWABLE DEFL.(LL) = L/360 (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-5), BC=0.05/1.00 (B-E-1), WB=0.00/1.00 (E-F-1), SS=0.09/1.00 (A-B-5)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

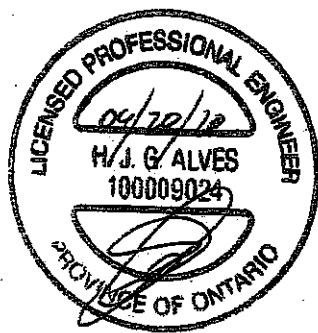
NAIL VALUES

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

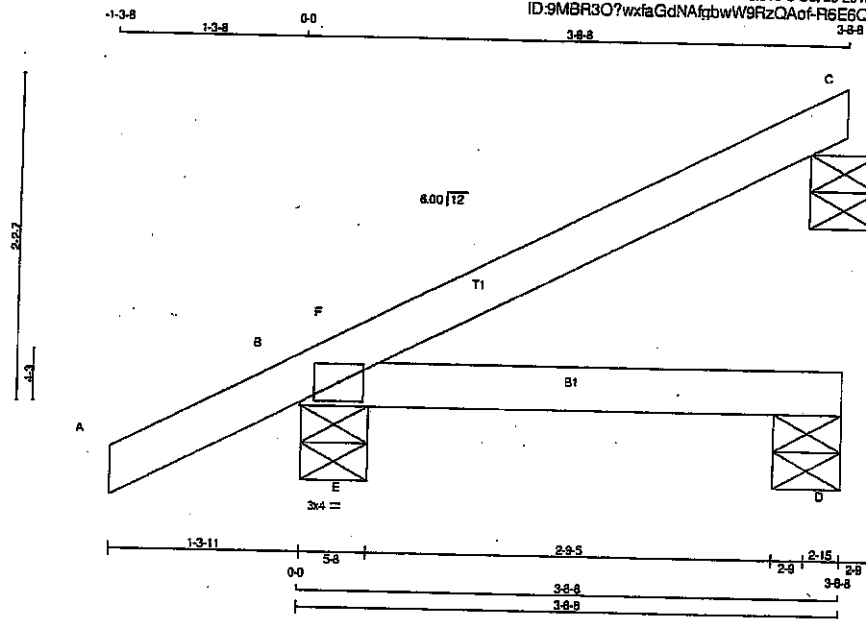
PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL = 5.0 Deg.

JSI GRIP = 0.20 (B) (INPUT = 0.90)
JSI METAL = 0.04 (B) (INPUT = 1.00)



JOB NAME 408189	TRUSS NAME J52	QUANTITY 4	PLY 1	JOB DESC. GREEN PARK HOMES	DRWG NO.
Tamarack Roof Truss, Burlington		TRUSS DESC.			



LUMBER

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

DRY: SEASONED LUMBER.

PLATES (table is in inches)

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

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

BEARINGS	FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT	REQD
JT	VERT	HORZ	DOWN	HORZ
C	148	0	148	0
B	329	0	329	0
D	57	0	57	0

VALUE IN PARENTHESIS INDICATES EFFECTIVE BEARING LENGTH

BEVELED PLATE OR SHIM REQUIRED TO PROVIDE FULL BEARING SURFACE WITH TRUSS CHORD AT JT(S): C

UNFACTORED REACTIONS

JT	1ST CASE	MAX. MIN. COMPONENT REACTIONS	PERM. LIVE	WIND	DEAD	SOIL
C	102	80.0	0.0	0.0	0.0	0.0
B	230	164.0	0.0	0.0	0.0	0.0
D	42	15.0	0.0	0.0	0.0	0.0

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

BRACING

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

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

LOADING

TOTAL LOAD CASES: (5)

MEMB.	CHORDS	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. FACTORED VERT. LOAD (PLF)	MAX. FACTORED VERT. LOAD (PLF)	W E B S	MAX. FACTORED FORCE (LBS)	MAX. FACTORED VERT. LOAD (PLF)
FR-TO								
A-B		0.28	-91.8	-91.8	0.13 (5)	10.00	E-F	-207.5
B-F		-16.17	-91.8	-91.8	0.03 (4)	6.25		
F-C		-2.2	-91.8	-91.8	0.16 (1)	10.00		
B-E		0.0	-18.5	-18.5	0.12 (1)	10.00		
E-D		0.0	-18.5	-18.5	0.12 (1)	10.00		

CANTILEVER ANALYSIS HAS BEEN CONSIDERED IN THIS DESIGN

TOTAL WEIGHT = 4 X 11 = 43 lb

DESIGN CRITERIA

SPECIFIED LOADS:

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

SPACING = 24.0 IN. C/C

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

THIS DESIGN COMPLIES WITH:

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

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

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

CSI: TC=0.16/1.00 (C-F:1), BC=0.12/1.00 (D-E:1), WB=0.00/1.00 (E-F:1), SE=0.17/1.00 (B-E:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

NAIL VALUES

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

PLATE PLACEMENT TOL. = 0.250 inches

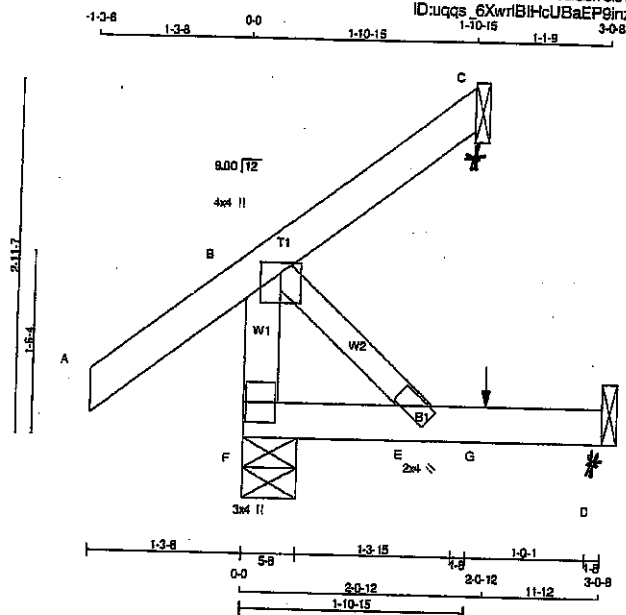
PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.28 (B) (INPUT = 0.90)
JSI METAL= 0.08 (B) (INPUT = 1.00)



Structural component only

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
408188	C30	2	1	GREEN PARK HOMES	
Temarack Roof Truss, Burlington					



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 (tablets in inches)

JT TYPE	PLATES	W	LEN	Y	X
B TM/W+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		

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		
F	288	0	288	0	5-8	5-8
C	42	0	42	0	1-8	1-8
D	28	0	32	0	1-8	1-8

SEE MITEK STANDARD DETAIL 997791H FOR CONNECTION TO JOINT(S) C, D

PROVIDE ANCHORAGE AT BEARING JOINT C FOR 150 LBS FACTORED UPLIFT

UNFACTORED REACTIONS

JT	COMBINED	SNOW		LIVE		PERM. LIVE	WIND	DEAD	SOIL
		1ST LOSE	MAX	MIN	COMPONENT REACTIONS				
F	201	145.0	0.0	0.0	0.0	0.0	0.0	57.0	0.0
C	23	23.25	0.0	0.0	0.0	0.0	0.0	5.0	0.0
D	23	0.0	0.0	0.0	0.0	0.0	0.0	23.0	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							
MEMB.	MAX. FORCE (LBS)	FACTORED VERT. LOAD (LBS)		MAX. CSI (LC)	MAX. UNBRAC LENGTH	MEMB.	MAX. FORCE (LBS)	FACTORED MAX CSI (LC)			
FR-TO		FROM	TO			FR-TO					
F-B	-280 0	0.0	0.0	0.03 (1)	7.81	B-E	0 0		0.00 (1)		
A-B	0/38	-91.8	-91.8	0.14 (5)	10.00						
B-C	-27 0	-91.8	-91.8	0.13 (5)	8.25						
F-E	0 0	-18.5	-18.5	0.05 (4)	10.00						
E-G	0 0	-18.5	-18.5	0.05 (4)	10.00						
G-D	0 0	-18.5	-18.5	0.05 (4)	10.00						

FACTORED CONCENTRATED LOADS (LBS)

JT	LOC.	LC1	MAX-	MAX+	FACE	DIR.	TYPE	HEEL	CONN.
G	2-0-12	-0	-0	---	BACK	VERT	TOTAL	---	C1

CONNECTION REQUIREMENTS

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

CANTILEVER ANALYSIS HAS BEEN CONSIDERED IN THIS DESIGN

TOTAL WEIGHT = 2 X 11 = 22 lb

DESIGN CRITERIA

SPECIFIED LOADS:

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

SPACING = 24.0 IN. C/C

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

THIS DESIGN COMPLES WITH:

- PART 9 OF BCBC 2010, CBC 2012, ABC 2019
- PART 9 OF CBC 2012 (2019 AMENDMENT)
- CSA 086-09, CSA 086-14
- TPIC 2011, TPIC 2014

DESIGN ASSUMPTIONS

OVERHANG NOT TO BE ALTERED OR CUT OFF.

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

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=0.14/1.00 (A-B-5), BC=0.05/1.00 (D-E-4),
WB=0.00/1.00 (B-E-1), SS=0.09/1.00 (A-B-5)

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

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE RIGHT HEEL ONLY

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

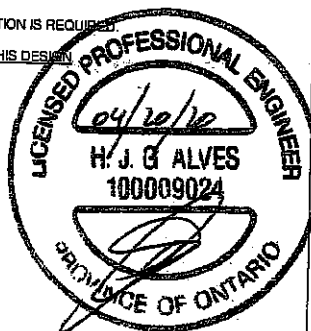
NAIL VALUES

PLATE GRIP(DRY)	(PSI)	(PL)	SECTION
MT20	618	354	1667 788 1987 1656

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

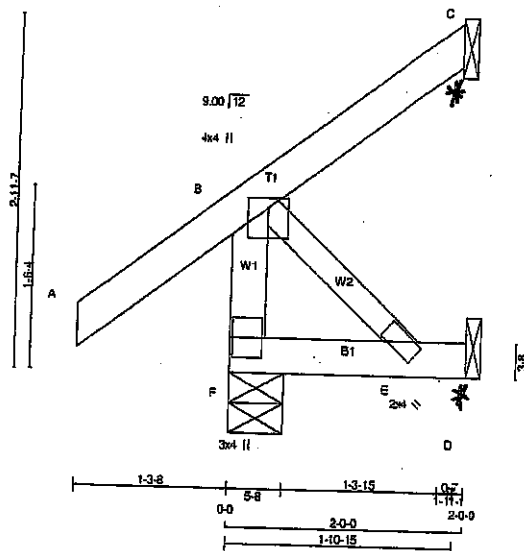
ISI GRIP= 0.21 (B) (INPUT = 0.90)
ISI METAL= 0.05 (B) (INPUT = 1.00)



Structural component only

JOB NAME 408188	TRUSS NAME C31	QUANTITY 3	PLY 1	JOB DESC. GREEN PARK HOMES	DRWG NO.
Tamarack Roof Truss, Burlington					

Version 8.310 S Oct 29 2019 Mitek Industries, Inc. Fri Apr 17 08:26:03 2020 Page 1
ID:uqqs_6XwrBIH-cUBaEP9inzQC9m-yISkgPitmmWKth7dSdYgFomifUzcCRkfcON1zPqY
1-10-15 2-0-0
1-10-15
Scale = 1:17.6



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 TMW+p	MT20	4.0	4.0	1.00 2.00
E BMW+w	MT20	2.0	4.0	
F BMV+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	HORZ	UPLIFT	IN-SX	IN-SX
F	278	0	278	0	0	5-8	5-8
C	42	0	42	0	-35	1-8	1-8
D	19	0	21	0	0	1-8	1-8

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

PROVIDE ANCHORAGE AT BEARING JOINT C FOR 150 LBS FACTORED UPLIFT

UNFACTORED REACTIONS		MAX/MIN. COMPONENT REACTIONS					
JT	1ST CASE COMBINED	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
F	194	145.0	0.0	0.0	0.0	49.0	0.0
C	29	23.25	0.0	0.0	0.0	5.0	0.0
D	15	0.0	0.0	0.0	0.0	15.0	0.0

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

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

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

LOADING
TOTAL LOAD CASES: (5)

CHORDS		FACTORED		WEBS		FACTORED	
MEMB.	FORCE (LBS)	VERT. LOAD (PLF)	MAX. CSI (LC)	MEMB.	FORCE (LBS)	MAX. CSI (LC)	
FR-TO		FROM TO		FR-TO			
F-B	-280.0	0.0	0.03 (1)	8-E	0.0	0.00 (1)	
A-B	0.38	-91.8	-91.8 0.12 (1)				
B-C	-27.0	-91.8	-91.8 0.12 (1)				
F-E	0.0	-18.5	-18.5 0.02 (4)				
E-D	0.0	-18.5	-18.5 0.02 (4)				

CANTILEVER ANALYSIS HAS BEEN CONSIDERED IN THIS DESIGN

DESIGN CRITERIA

SPECIFIED LOADS:
TOP CH. LL = 25.6 PSF
CL = 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 2010, NBCC 2015

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

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

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

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=0.12/1.00 (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

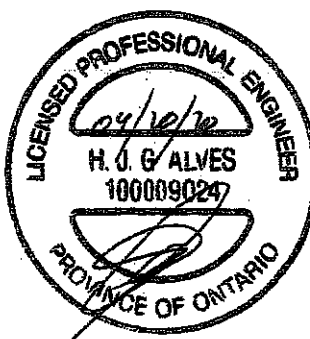
TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

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

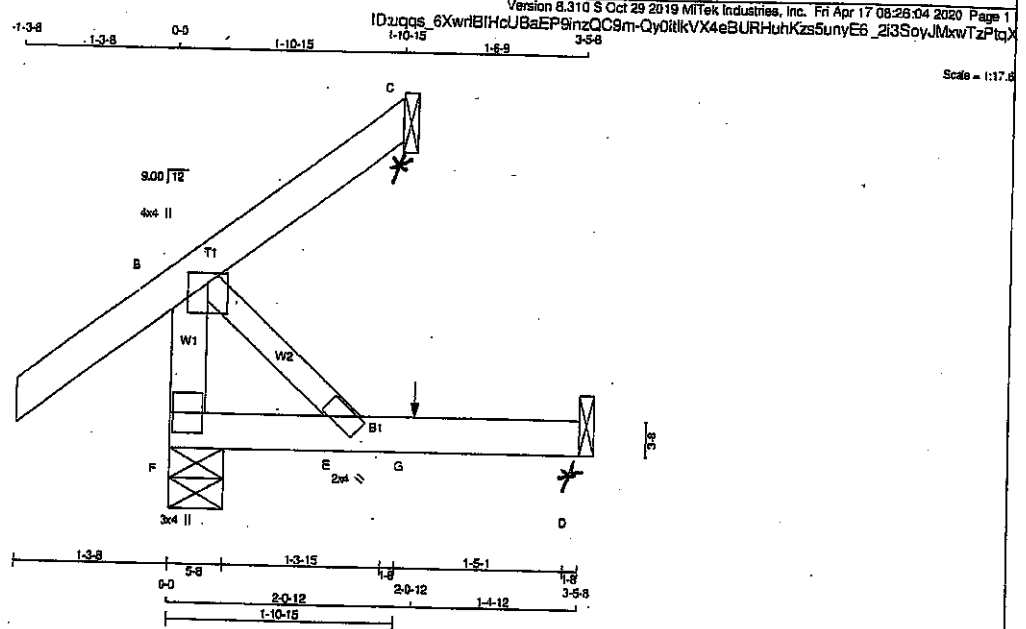
PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.21 (B) (INPUT = 0.90)
JSI METAL= 0.05 (B) (INPUT = 1.00)



JOB NAME 408188	TRUSS NAME C32	QUANTITY 1	PLY 1	JOB DESC. GREEN PARK HOMES	DRWG NO.
Tamarack Roof Truss, Burlington					



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
TMVW+p	MT20	4.0	4.0	1.00 2.00
BMW+w	MT20	2.0	4.0	
BMVt+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 IN-SX		REQD BRG IN-SX	
JT	VERT	HORZ	DOWN	HORZ	UPLIFT	BRG	IN-SX
F	232	0	232	0	0	5-8	5-8
C	42	0	42	0	-35	1-8	1-8
D	32	0	32	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		MAX/MIN. COMPONENT REACTIONS		PERM. LIVE		WIND		DEAD		SOIL	
JT	COMBINED	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL	COMBINED	SNOW	LIVE	PERM. LIVE
F	205	145.0	0.0	0.0	0.0	60.0	0.0	205	145.0	0.0	0.0
C	29	23.25	0.0	0.0	0.0	5.0	0.0	29	23.25	0.0	0.0
D	26	0.0	0.0	0.0	0.0	26.0	0.0	26	0.0	0.0	0.0

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

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

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

LOADING
TOTAL LOAD CASES: (5)

CHORDS				WEBS				
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (LBS)	LC1 MAX. CSI (LC)	MAX. UNBRAC LENGTH	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. CSI (LC)	
FR-TO		FROM	TO		FR-TO			
F-B	-260.0	0.0	0.0	0.03 (1)	7.81	B-E	0.0	0.00 (1)
A-B	0.38	-91.8	-91.8	0.14 (5)	10.00			
B-C	-27.0	-91.8	-91.8	0.13 (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			

FACTORED CONCENTRATED LOADS (LBS)		FACE		DIR.		TYPE		HEEL		CONN.	
JT	LOC	LC1	MAX.	FRONT	VERT	TOTAL					
G	2-0-12	1	1								C1

CONNECTION REQUIREMENTS

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

CANTILEVER ANALYSIS HAS BEEN CONSIDERED IN THIS DESIGN

DESIGN CRITERIA

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

SPACING = 24.0 IN. C/C

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

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

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

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

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=0.09/1.00 (A-B-5)

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

AUTOSOLVE RIGHT HEEL ONLY

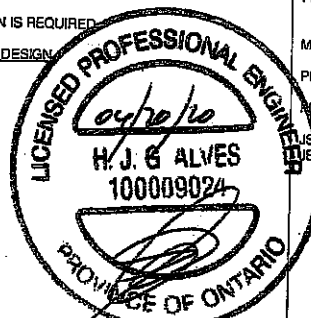
TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

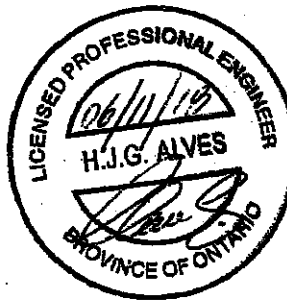
NAIL VALUES
PLATE GRIP (DRY) SHEAR SECTION (PSI) (PLI) (PLI)
MAX MIN MAX MIN MAX MIN
MT20 618 354 1667 788 1987 1656

PLATE PLACEMENT TOL = 0.250 inches

PLATE ROTATION TOL = 5.0 Deg.

GRIP = 0.21 (B) (INPUT = 0.90)
METAL = 0.05 (B) (INPUT = 1.00)





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-1900218

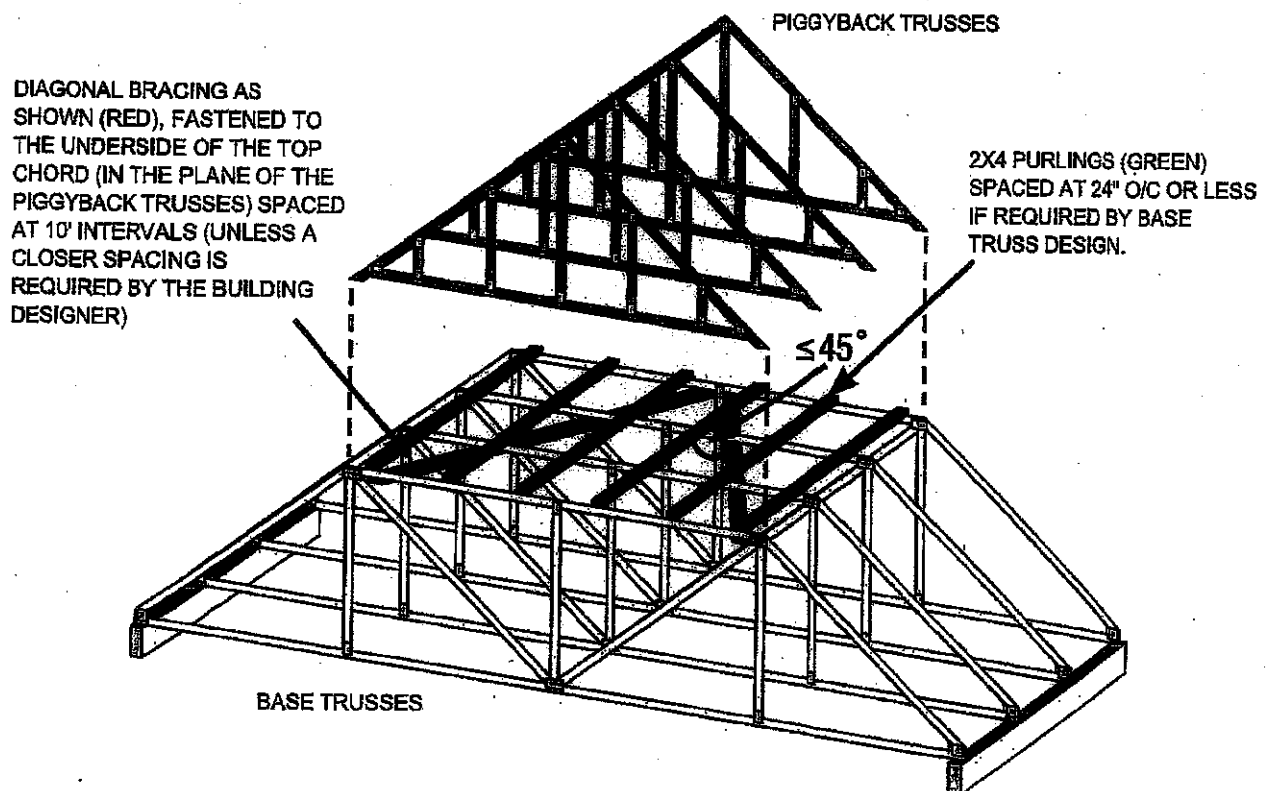
Feb 09, 2018

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:



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.

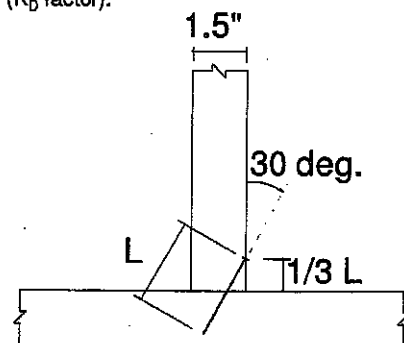
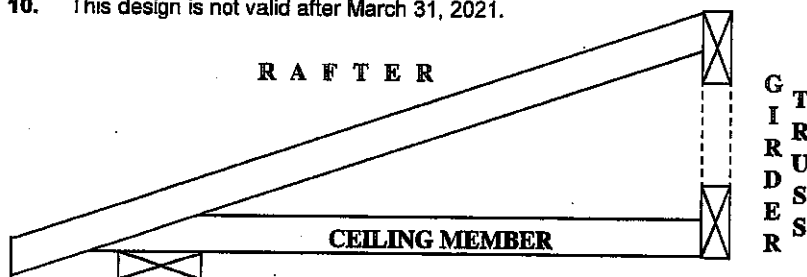
BEARING ANCHORAGE BY TOE-NAILS FOR LATERAL CAPACITY

B97791H1

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

NOTES:

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



TOE-NAIL INSTALLATION

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

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

December 2, 2019

BEARING ANCHORAGE BY TOE-NAILS FOR WIND LOADING

B97791H2

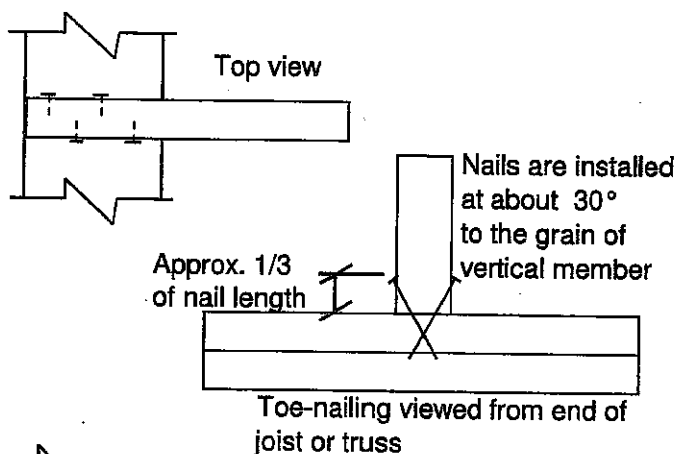
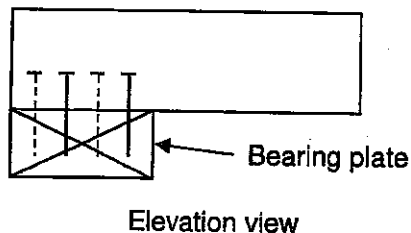
NAIL TYPE	LENGTH (IN)	DIAMETER (IN)	NAIL WITHDRAWAL CAPACITY (LB)	
			S-P-F	D. FIR
COMMON WIRE	3.00	0.144	30	42
	3.25	0.144	32	45
	3.50	0.160	38	52
COMMON SPIRAL	3.00	0.122	26	36
	3.25	0.122	28	40
	3.50	0.152	36	50

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

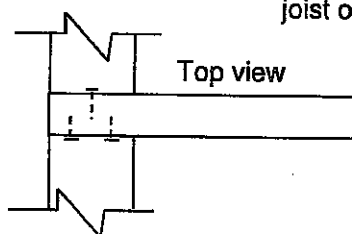
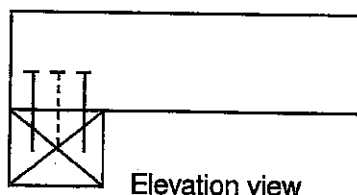
NOTES:

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



LUL/LUS/LJS/HUS/HHUS/HGUS

Standard and Double-Shear Joist Hangers



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

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

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

Material: See table on pp. 258–259.

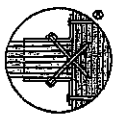
Finish: Galvanized. Some products available in stainless steel or ZMAX® coating; see Corrosion Information, pp. 20–24.

Installation:

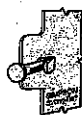
- Use all specified fasteners; see General Notes.
- Nails must be driven at an angle through the joist or truss into the header to achieve the tabulated resistances (except LUL).
- Where 16d commons are specified, 10d commons may be used at 0.83 of the tabulated factored resistance.
- Not designed for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

Options:

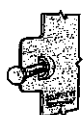
- LUS, LJS, LUL and HUS hangers cannot be modified.
- Other sizes available; consult your Simpson Strong-Tie representative.
- See Hanger Options information on p. 126.



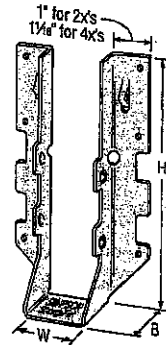
Double-Shear Nailing Top View



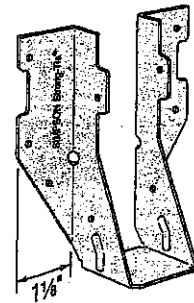
Double-Shear Nailing Side View; Do not bend tab



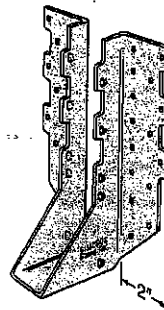
Dome Double-Shear Nailing Side View (available on some models)
U.S. Patent 5,603,580



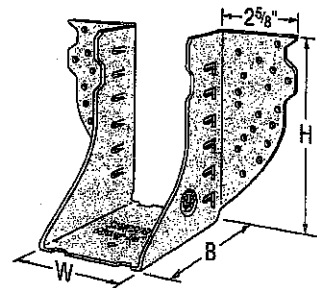
LUS28



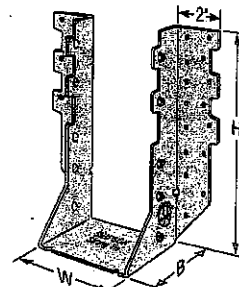
LU26L



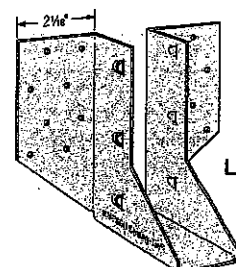
HUS210
(HUS26, HUS28, and HHUS similar)



HGUS28-2

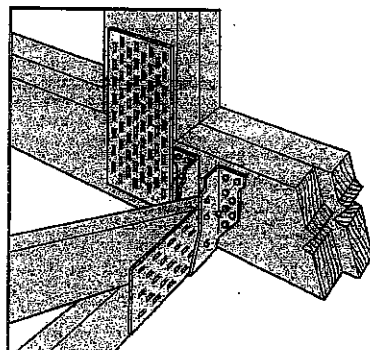


HHUS210-2



LJS26DS

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



LUL/LUS/LJS/HUS/HHUS/HGUS**HHUS/HGUS**

See Hanger Options information on pp. 125–127.

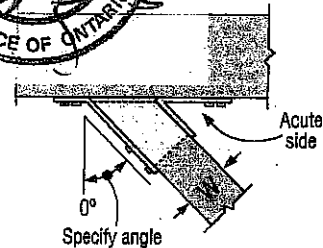
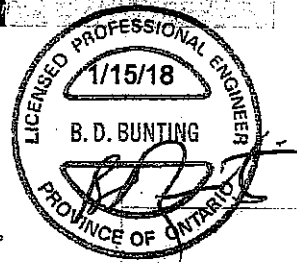
HHUS — Sloped and/or Skewed Seat

- HHUS hangers can be skewed to a maximum of 45° and/or sloped to a maximum of 45°
- For skew only, maximum factored down resistance is 0.85 of the table value
- For sloped only or sloped and skewed hangers, the maximum factored down resistance is 0.72 of the table value
- Uplift resistances for sloped/skewed conditions are 0.62 of the table value
- The joist must be bevel-cut to allow for double-shear nailing

HGUS — Skewed Seat

- HGUS hangers can be skewed only to a maximum of 45°. Factored resistances are:

HGUS Seat Width	Joist	Down Resistance	Uplift
W < 2"	Bevel or square cut	0.62 of table value	0.46 of table value
2" < W < 6"	Bevel cut	0.67 of table value	0.41 of table value
2" < W < 6"	Square cut	0.46 of table value	0.41 of table value
W > 6"	Bevel cut	0.75 of table value	0.41 of table value



**Top View HHUS Hanger
Skewed Right**
(joist must be bevel cut)
All joist nails installed on the
outside angle (non-acute side).

Standard and Double-Shear Joist Hangers (cont.)

These products are available with additional corrosion protection. For more information, see p. 24.

These products are approved for installation with the Strong-Drive® SD Connector screw. See pp. 32–34 for more information.

Model No.	Ga.	Dimensions (in.)				Fasteners		Factored Resistance			
		W	H	B	d _a ¹	Header	Joist	D-F-L		S-P-F	
								Uplift (K _D = 1.75)	Normal (K _D = 1.00)	Uplift (K _D = 1.15)	Normal (K _D = 1.00)
								lb.	lb.	lb.	lb.
								kN	kN	kN	kN
Single 2x Sizes											
LUS24	18	1 1/8	3 1/2	1 1/4	2 1/4	(4) 10d	(2) 10d	710	1625	645	1155
								3.16	7.23	2.87	5.14
LU24L	22	1 1/8	3	1 1/4	2 1/4	(4) 10d	(2) 10d x 1 1/2"	360	1020	320	725
								1.60	4.54	1.42	3.22
LU26L	22	1 1/8	5	1 1/4	4 1/4	(6) 10d	(4) 10d x 1 1/2"	720	1605	645	1140
								3.20	7.14	2.87	5.07
LUS26	18	1 1/8	4 1/4	1 3/4	3 3/4	(4) 10d	(4) 10d	1420	2170	1290	1630
								6.32	9.65	5.74	7.25
HUS26	16	1 1/8	5 1/4	3	3 1/4	(14) 16d	(6) 16d	2705	4940	2065	3875
								11.30	21.97	9.20	17.24
LJS26DS	18	1 1/8	5	3 1/2	4 1/4	(16) 16d	(6) 16d	2055	4265	1460	4115
								9.14	18.97	6.49	18.31
HGUS26	12	1 1/8	5 1/4	5	4 1/4	(20) 16d	(8) 16d	2685	6625	2685	5700
								11.96	29.51	11.96	25.35
LU28L	20	1 1/8	6 1/4	1 1/4	5 1/4	(8) 10d	(6) 10d x 1 1/2"	1140	2185	1020	1550
								5.07	9.72	4.54	6.89
LUS28	18	1 1/8	6 1/4	1 1/4	3 3/4	(6) 10d	(4) 10d	1420	2520	1290	1790
								6.32	11.21	5.74	7.96
HUS28	16	1 1/8	7 1/4	3	6 1/4	(22) 16d	(8) 16d	3605	5365	2675	4345
								16.04	23.86	11.90	19.33
HGUS28	12	1 1/8	7 1/4	5	6 1/4	(36) 16d	(12) 16d	3310	7675	3310	6900
								14.74	34.19	14.74	30.73
LU210L	20	1 1/8	8	1 1/4	7 1/4	(10) 10d	(6) 10d x 1 1/2"	1140	2495	1020	1770
								5.07	11.10	4.54	7.87
LUS210	18	1 1/8	7 1/4	1 1/4	3 3/4	(8) 10d	(4) 10d	1420	2785	1290	2210
								6.32	12.39	5.74	9.83

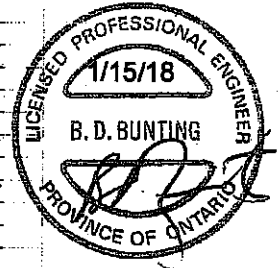
1. Factored uplift resistances have been increased 15% for wind or earthquake loading; no further increase is allowed.
2. Designer must ensure that hanger is compatible with truss when reduced heel height is used.
3. d_a is the distance from the bearing seat to the top joist nail.
4. Resistances shown require a minimum 2-ply girder truss. For fastening to single-ply truss request technical bulletin T-C-N10TRSSCN and/or see installation notes.
5. Nails: 16d = 0.162" dia. x 3 1/2" long. See pp. 27–28 for other nail sizes and information.

Face-Mount Hangers

These products are available with additional corrosion protection. For more information, see p. 24.

These products are approved for installation with the Strong-Drive® SD Connector screw. See pp. 32-34 for more information.

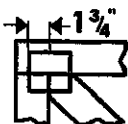
Model No.	Ga.	Dimensions (in.)				Fasteners		Factored Resistance			
		W	H	B	d _g ³	Header	Joist	D-Fir-L		S-P-F	
								Uplift	Normal	Uplift	Normal
								(K _u = 1.15) lb.	(K _u = 1.00) lb.	(K _u = 1.15) lb.	(K _u = 1.00) lb.
Double 2x Sizes											
LUS24-2	18	3 ³ / ₈	3 ³ / ₈	2	1 ¹ / ₂	(4) 16d	(2) 16d	835	2020	590	1435
LUS26-2	18	3 ³ / ₈	4 ³ / ₈	2	4	(4) 16d	(4) 16d	1720	2595	1545	1920
HHUS26-2	14	3 ³ / ₈	5 ³ / ₈	3	3 ³ / ₈	(14) 16d	(6) 16d	2850	7335	2065	5205
HGUS26-2	12	3 ³ / ₈	5 ³ / ₈	4	4 ¹ / ₄	(20) 16d	(8) 16d	4385	8950	3110	6355
LUS28-2	18	3 ³ / ₈	7	2	4	(6) 16d	(4) 16d	1720	3325	1545	2575
HHUS28-2	14	3 ³ / ₈	7 ³ / ₈	3	6 ¹ / ₈	(22) 16d	(8) 16d	3765	8940	2675	6345
HGUS28-2	12	3 ³ / ₈	7 ³ / ₈	4	6 ¹ / ₈	(36) 16d	(12) 16d	6070	12980	4310	9215
LUS210-2	18	3 ³ / ₈	9	2	6	(8) 16d	(6) 16d	2580	4500	2320	3195
HHUS210-2	14	3 ³ / ₈	9 ³ / ₈	3	8	(30) 16d	(10) 16d	4670	9660	4235	7000
HGUS210-2	12	3 ³ / ₈	9 ³ / ₈	4	8 ¹ / ₄	(46) 16d	(16) 16d	6840	14015	4855	10270
Triple 2x Sizes											
HGUS26-3	12	4 ¹ / ₈	5 ¹ / ₂	4	4 ¹ / ₄	(20) 16d	(8) 16d	4385	8950	3110	6355
HGUS28-3	12	4 ¹ / ₈	7 ¹ / ₄	4	6 ¹ / ₈	(36) 16d	(12) 16d	6070	12980	4310	9215
HHUS210-3	14	4 ¹ / ₈	9	3	7 ¹ / ₈	(30) 16d	(10) 16d	4670	9660	4235	7000
HGUS210-3	12	4 ¹ / ₈	9 ¹ / ₄	4	8 ¹ / ₄	(46) 16d	(16) 16d	6840	14015	4855	10270
Quadruple 2x Sizes											
HGUS26-4	12	6 ¹ / ₈	5 ³ / ₈	4	4 ¹ / ₄	(20) 16d	(8) 16d	4385	8950	3110	6355
HGUS28-4	12	6 ¹ / ₈	7 ³ / ₈	4	6 ¹ / ₈	(36) 16d	(12) 16d	6070	12980	4310	9215
HHUS210-4	14	6 ¹ / ₈	8 ³ / ₈	3	7 ¹ / ₈	(30) 16d	(10) 16d	4670	9660	4235	7000
HGUS210-4	12	6 ¹ / ₈	9 ³ / ₈	4	8 ¹ / ₄	(46) 16d	(16) 16d	6840	14015	4855	10270
HGUS212-4	12	6 ¹ / ₈	10 ³ / ₈	4	10 ¹ / ₄	(56) 16d	(20) 16d	7640	14995	5425	10645
HGUS214-4	12	6 ¹ / ₈	12 ³ / ₈	4	11 ¹ / ₄	(66) 16d	(22) 16d	10130	16400	7195	11645
4x Sizes											
LUS46	18	3 ³ / ₈	4 ³ / ₈	2	3 ³ / ₈	(4) 16d	(4) 16d	1720	2595	1545	1920
HHUS46	14	3 ³ / ₈	5 ³ / ₈	3	3 ³ / ₈	(14) 16d	(6) 16d	2850	7335	2065	5205
HGUS46	12	3 ³ / ₈	5 ³ / ₈	4	4 ¹ / ₄	(20) 16d	(8) 16d	4385	8950	3110	6355
LUS48	18	3 ³ / ₈	6 ³ / ₈	2	3 ³ / ₈	(6) 16d	(4) 16d	1720	3325	1545	2575
HHUS48	14	3 ³ / ₈	7 ³ / ₈	3	6 ¹ / ₈	(22) 16d	(8) 16d	3765	8940	2675	6345
HGUS48	12	3 ³ / ₈	7 ³ / ₈	4	6 ¹ / ₈	(36) 16d	(12) 16d	6070	12980	4310	9215
LUS410	18	3 ³ / ₈	8 ³ / ₈	2	5 ³ / ₈	(8) 16d	(6) 16d	2580	4500	2320	3195
HGUS410	12	3 ³ / ₈	9	4	8 ¹ / ₄	(46) 16d	(16) 16d	6840	14015	4855	10270
HGUS412	12	3 ³ / ₈	10 ³ / ₈	4	10 ¹ / ₄	(56) 16d	(20) 16d	7640	14995	5425	10645
HGUS414	12	3 ³ / ₈	12 ³ / ₈	4	11 ¹ / ₄	(66) 16d	(22) 16d	10130	16400	7195	11645



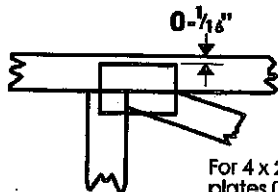
See footnotes
on p. 258.

Symbols

PLATE LOCATION AND ORIENTATION



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



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



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

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

PLATE SIZE

4 x 4

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

LATERAL BRACING LOCATION



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

BEARING

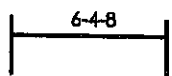


Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur.

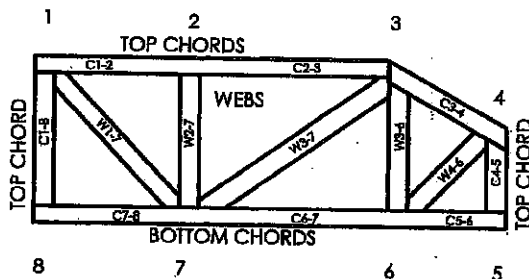
Industry Standards:

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

Numbering System



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



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

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

PRODUCT CODE APPROVALS

CCMC Reports:

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

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MiTek

POWER TO PERFORM.™

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

General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

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