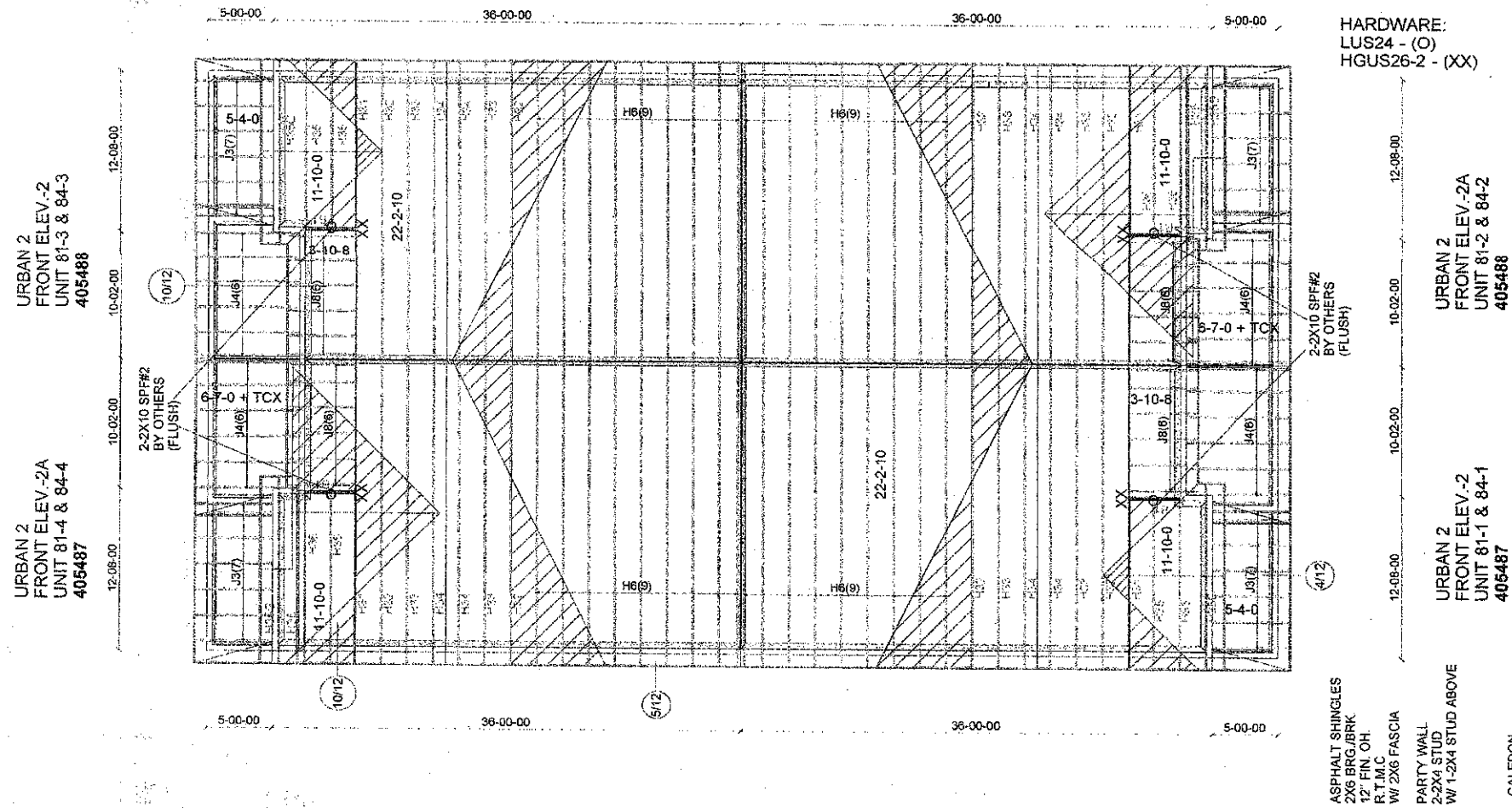


RECEIVED
 SEP 16 2019
 TOWN OF CALEDON
 BUILDING SECTION
 FILED 10



URBAN 2
 FRONT ELEV.-2A
 UNIT 81-4 & 84-4
 405487

URBAN 2
 FRONT ELEV.-2
 UNIT 81-3 & 84-3
 405488

URBAN 2
 FRONT ELEV.-2A
 UNIT 81-2 & 84-2
 405488

URBAN 2
 FRONT ELEV.-2
 UNIT 81-1 & 84-1
 405487

HARDWARE:
 LUS24 - (O)
 HGUS26-2 - (XX)

ASPHALT SHINGLES
 2X6 BRG./BRK
 12" FIN. OH
 R.T.I.M.C
 W/ 2X6 FASCIA

PARTY WALL
 2-2X4 STUD
 W/ 1-2X4 STUD ABOVE

CALEDON
 (29, 6, 0, 7, 4)

BY JESSIE

M12627

Job Track: **50033**
 Plan Log: **201704**
 Layout ID: **405486**

Builder / Location:
GREEN PARK HOMES / CALEDON

Project: **LAMBERT LANE PH.2**

Date: 9/9/2019 Sales: Mario DiCano Designer: AC

Model / Elevation:
BLOCK 81, 84 / UNITS 81-1 - 81-4, 84-1 - 84-4

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Mitek ver 8.3.0.234



DELIVERY SHIPLIST



Lumber Yard: TAMARACK LUMBER
 Builder: GREEN PARK HOMES
 Project: LAMBERT LANE PH.2
 Location: CALEDON
 Model: URBAN 2
 Lot #:
 Elevation: 81-2, 81-4, 84-2, 84-4

Job Track: 50033
 PlanLog: 201704
 Layout ID: 405488
 Ref #
 Page: 1 of 1
 Date: 09/09/2019
 Designer: Andrew Conway
 Sales Rep: Mario DiCano

Roof Trusses

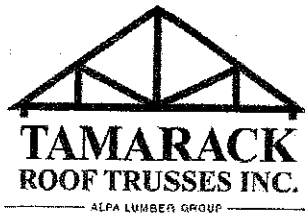
PROFILE	QTY PLY	MARK TYPE	PITCH	SPAN	HEIGHT	LUMBER	OVERHANG		HEEL HEIGHT		LBS. BFT.	BUNDLE # STACK #	LOAD BY REMARKS
							LEFT RIGHT	LEFT RIGHT					
	9	H6 Monopitch	5/12	22-02-10	10-03-10	2 x 4	1-03-08	1-00-09 10-03-11	888.89 550.50				
	1 2-ply	H31 Flat Girder	0/12	22-02-10	4-10-07	2 x 4 2 x 6	1-03-08	4-10-07 4-10-07	226.57 141.33				
	2	H32 Flat	0/12	22-02-10	6-06-07	2 x 4	1-03-08	6-06-07 6-06-07	196.02 120.67				
	2	H33 Flat	0/12	22-02-10	8-02-07	2 x 4	1-03-08	8-02-07 8-02-07	235 144.00				
	2	H34 Flat	0/12	22-02-10	9-10-07	2 x 4	1-03-08	9-10-07 9-10-07	256.77 157.33				
	2	H35 Common	10/12	11-10-00	6-06-14	2 x 4	1-03-08 1-03-08	1-07-11 1-07-11	114.86 74.00				
	1	H35G GABLE	10/12	11-10-00	6-06-14	2 x 4	1-03-08 1-03-08	1-07-11 1-07-11	57.55 37.00				
	7	J3 Jack-Open	4/12	5-04-00	2-06-03	2 x 4	1-03-08	7-15 2-02-04	103.46 74.67				
	6	J4 Jack-Open	4/12	6-07-00	3-02-03	2 x 4	1-03-08	7-15 2-10-04	174.1 123.00				
	6	J8 Jack-Open	10/12	3-10-08	4-10-07	2 x 4	1-03-08	1-07-11 4-10-07	82.48 52.00				

TOTAL # TRUSS= 39 TOTAL BFT OF ALL TRUSSES= 1474.5 BFT. TOTAL WEIGHT OF ALL TRSSES 2335.69 LBS

HARDWARE

QTY	TYPE	MODEL	LENGTH
1	Hardware	LJS26DS	
1	Hardware	LUS24	

TOTAL NUMBER OF ITEMS= 2



DELIVERY SHIPLIST

Lumber Yard: TAMARACK LUMBER
 Builder: GREEN PARK HOMES
 Project: LAMBERT LANE PH.2
 Location: CALEDON
 Model: URBAN 2
 Lot #:
 Elevation: 81-1, 81-3, 84-1, 84-3

Job Track: 50033
 PlanLog: 201704
 Layout ID: 405487
 Ref #
 Page: 1 of 1
 Date: 09/09/2019
 Designer: Andrew Conway
 Sales Rep: Mario DiCano

Roof Trusses

PROFILE	QTY	MARK TYPE	PITCH	SPAN	HEIGHT	LUMBER	OVERHANG		HEEL HEIGHT		LBS. BFT.	BUNDLE # STACK #	LOAD BY REMARKS
	PLY						LEFT RIGHT	LEFT RIGHT					
	9	H6 Monopitch	5/12	22-02-10	10-03-10	2 x 4	1-03-08	1-00-09 10-03-11	888.89 550.50				
	1 2-ply	H31 Flat Girder	0/12	22-02-10	4-10-07	2 x 4 2 x 6	1-03-08	4-10-07 4-10-07	226.57 141.33				
	2	H32 Flat	0/12	22-02-10	6-06-07	2 x 4	1-03-08	6-06-07 6-06-07	196.02 120.67				
	2	H33 Flat	0/12	22-02-10	8-02-07	2 x 4	1-03-08	8-02-07 8-02-07	235 144.00				
	2	H34 Flat	0/12	22-02-10	9-10-07	2 x 4	1-03-08	9-10-07 9-10-07	256.77 157.33				
	1	H35 Common	10/12	11-10-00	6-06-14	2 x 4	1-03-08 1-03-08	1-07-11 1-07-11	57.43 37.00				
	1	H35G GABLE	10/12	11-10-00	6-06-14	2 x 4	1-03-08 1-03-08	1-07-11 1-07-11	57.55 37.00				
	2	H36 Common Structural Gable	10/12	11-10-00	10-03-14	2 x 4	1-03-08	1-07-11 9-01-11	147.48 92.67				
	7	J3 Jack-Open	4/12	5-04-00	2-06-03	2 x 4	1-03-08	7-15 2-02-04	103.45 74.67				
	6	J4 Jack-Open	4/12	6-07-00	3-02-03	2 x 4	1-03-08	7-15 2-10-04	174.1 123.00				
	6	J8 Jack-Open	10/12	3-10-08	4-10-07	2 x 4	1-03-08	1-07-11 4-10-07	82.48 52.00				

TOTAL # TRUSS= 40

TOTAL BFT OF ALL TRUSSES= 1530.17

BFT.

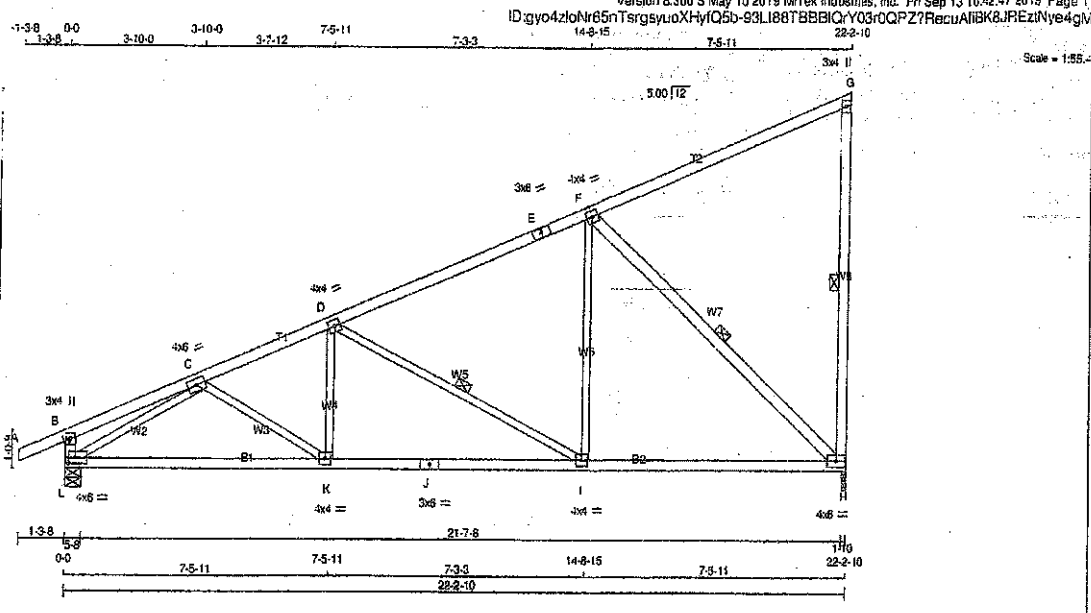
TOTAL WEIGHT OF ALL TRSSES 2425.74 LBS

HARDWARE

QTY	TYPE	MODEL	LENGTH
1	Hardware	LUS24	
1	Hardware	HGUS26-2	

TOTAL NUMBER OF ITEMS= 2

JOB NAME 405486	TRUSS NAME H6	QUANTITY 36	PLY 1	JOB DESC. GREEN PARK HOMES	DRWG NO.
Tamarack Roof Truss, Burlington				TRUSS DESC.	



LUMBER

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

DRY, SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMV-p	MT20	3.0	4.0		
C	TMWW-I	MT20	4.0	6.0		
D	TMWW-I	MT20	4.0	4.0		
E	TS-I	MT20	3.0	0.0		
F	TMWW-I	MT20	4.0	4.0		
G	TMV-p	MT20	3.0	4.0		
H	BMWW-I	MT20	4.0	6.0		
I	BMWW-I	MT20	4.0	4.0		
J	SS-I	MT20	3.0	6.0		
K	BMWW-I	MT20	4.0	4.0		
L	BMWW-I	MT20	4.0	6.0	2.00	2.25

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	
	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX	
H	1339	0	1339	0	1-10	1-10		
L	1476	0	1476	0	5-8	5-8		

UNFACTORED REACTIONS

JT	1ST CASE COMBINED		MAX. MIN. LIVE		PERM. LIVE		WIND		DEAD		SOIL	
	VERT	SNOW	VERT	MIN	VERT	MIN	VERT	MIN	VERT	MIN	VERT	MIN
H	942	844 / 0	0 / 0	0 / 0	0 / 0	0 / 0	298 / 0	0 / 0	0 / 0	0 / 0	0 / 0	0 / 0
L	1037	723 / 0	0 / 0	0 / 0	0 / 0	0 / 0	314 / 0	0 / 0	0 / 0	0 / 0	0 / 0	0 / 0

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

BRACING
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.50 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-H, D-I, F-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)

MEMB.	CHORDS				WEBS			
	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. LCI (LC)	MAX. UNBRACED LENGTH (FR-TO)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. LCI (LC)	MAX. UNBRACED LENGTH (FR-TO)
A-B	0 / 26	-102.0	-102.0	0.13 (1)	10.00	K-D	0 / 139	0.05 (4)
B-C	0 / 8	-102.0	-102.0	0.20 (1)	10.00	D-I	-841 / 0	0.39 (1)
C-D	-1949 / 0	-102.0	-102.0	0.34 (1)	4.50	I-F	0 / 547	0.12 (1)
D-E	-1140 / 0	-102.0	-102.0	0.59 (1)	4.50	F-H	-1454 / 0	0.78 (1)
E-F	-1140 / 0	-102.0	-102.0	0.59 (1)	4.50	C-K	0 / 85	0.02 (4)
F-G	-32 / 0	-102.0	-102.0	0.70 (1)	8.25	L-C	-2118 / 0	0.68 (1)
H-G	298 / 0	0.0	0.0	0.18 (1)	6.25			
L-B	-309 / 0	0.0	0.0	0.03 (1)	7.81			
L-K	0 / 1804	-18.5	-18.5	0.42 (1)	10.00			
K-J	0 / 1812	-18.5	-18.5	0.43 (1)	10.00			
J-I	0 / 1812	-18.5	-18.5	0.43 (1)	10.00			
I-H	0 / 1069	-18.5	-18.5	0.32 (4)	10.00			

DESIGN CRITERIA

SPECIFIED LOADS:
TOP CH. LL = 29.0 PSF
DL = 6.0 PSF
BOT CH. LL = 0.0 PSF
DL = 7.4 PSF
TOTAL LOAD = 42.4 PSF

SPACING = 24.0 IN. OC

THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBC2010, NBC2015

THIS DESIGN COMPLIES WITH:
- PART 9 OF NBC2018, OBC 2012
- CSA 086-09, CSA 086-14
- TPIC 2011, TPIC 2014

(55 % OF 37.6 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 29.0 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL. (LL) = L/360 (0.74")
CALCULATED VERT. DEFL. (LL) = L/599 (0.07")
ALLOWABLE DEFL. (TL) = L/360 (0.74")
CALCULATED VERT. DEFL. (TL) = L/999 (0.18")

CSI: TC=0.70/1.00 (F-G:1), BC=0.43/1.00 (H-K:1), WB=0.76/1.00 (F-H:1), SSI=0.33/1.00 (F-G:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE RIGHT HEEL ONLY

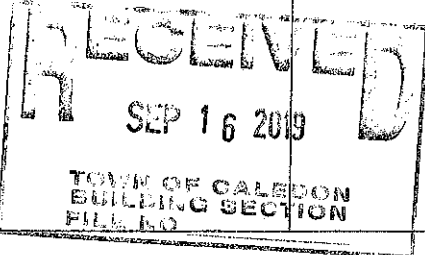
TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

NAIL VALUES
PLATE GRIP(DRY) SHEAR SECTION (PS) (PL) (PL)
MAX MIN MAX MIN MAX MIN
MT20 618 354 1667 768 1987 1656

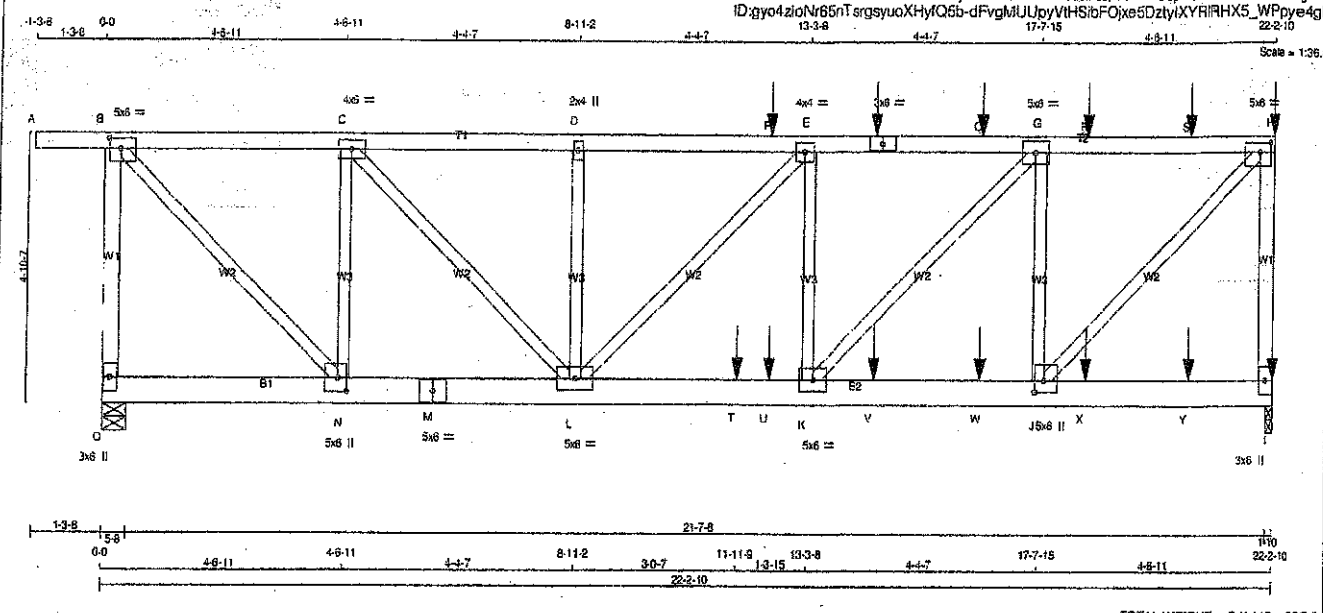
PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP = 0.88 (L) (INPUT = 0.90)
JSI METAL = 0.50 (J) (INPUT = 1.00)



Structural component only
DWG# T-1923426



LUMBER

N.L.G. A. RULES	CHORDS	SIZE	LUMBER	DESCR.
O - B	2x4	DRY	No.2	SPF
A - F	2x4	DRY	No.2	SPF
F - H	2x4	DRY	No.2	SPF
I - H	2x4	DRY	No.2	SPF
O - M	2x6	DRY	No.2	SPF
M - I	2x6	DRY	No.2	SPF
ALL WEBS	2x3	DRY	No.2	SPF
DRY; SEASONED LUMBER.				

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

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

TOP CHORDS : (0.122'X3') SPIRAL NAILS

O - B	1	12	TOP
A - F	1	12	SIDE(0.0)
F - H	1	12	SIDE(61.0)
H - I	1	12	TOP

BOTTOM CHORDS : (0.122'X3') SPIRAL NAILS

O - M	2	12	TOP
M - I	2	12	SIDE(0.0)

WEBS : (0.122'X3') SPIRAL NAILS

2x3	1	6	
-----	---	---	--

NAILS TO BE DRIVEN FROM ONE SIDE ONLY.

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

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

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

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

BEARINGS

JT	FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT SRC	REQRD SRC
	VERT	HORZ	DOWN	HORZ
O	1918	0	1918	0
I	2277	0	2277	0

UNFACTORED REACTIONS

JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
O	1346	944	0	0	0	402	0
I	1801	1107	0	0	0	493	0

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 5.16 FT. MAX. UNSBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS

MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (LBS)	LC1	MAX. CSI (LC)	UNBRAC	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. CSI (LC)	
FR-TO	-1871	0	0.0	0.34 (1)	7.81	J - H	0 / 2578	0.32 (1)	
A - B	0	-102.0	-102.0	0.08 (1)	10.00	B - N	0 / 2210	0.27 (1)	
B - C	-1579	0	-102.0	-102.0	0.17 (1)	J - G	-1748 / 0	0.30 (1)	
C - D	-2933	0	-102.0	-102.0	0.19 (1)	5 - 48	J - C	-1504 / 0	0.25 (1)
D - P	-2533	0	-102.0	-102.0	0.18 (1)	5 - 50	K - G	0 / 1370	0.17 (1)
P - E	-2533	0	-102.0	-102.0	0.18 (1)	5 - 50	C - L	0 / 1377	0.17 (1)
E - F	-2788	0	-102.0	-102.0	0.28 (1)	5 - 16	K - E	-399 / 0	0.08 (1)
F - Q	-2788	0	-102.0	-102.0	0.28 (1)	5 - 16	L - D	-432 / 0	0.07 (1)
Q - G	-2788	0	-102.0	-102.0	0.28 (1)	5 - 16	L - E	-365 / 0	0.13 (1)
G - R	-1834	0	-102.0	-102.0	0.28 (1)	5 - 09			
R - S	-1834	0	-102.0	-102.0	0.28 (1)	6 - 09			
S - H	-1834	0	-102.0	-102.0	0.28 (1)	6 - 09			
I - H	-2188	0	0.0	0.0	0.40 (1)	7 - 52			
O - N	0	-18.5	-18.5	0.02 (4)	10.00				
N - M	0 / 1573	-18.5	-18.5	0.14 (1)	10.00				
M - L	0 / 1573	-18.5	-18.5	0.14 (1)	10.00				
L - T	0 / 2788	-18.5	-18.5	0.36 (1)	10.00				
T - U	0 / 2788	-18.5	-18.5	0.36 (1)	10.00				
U - K	0 / 2788	-18.5	-18.5	0.36 (1)	10.00				
K - V	0 / 1834	-18.5	-18.5	0.19 (1)	10.00				
V - W	0 / 1834	-18.5	-18.5	0.19 (1)	10.00				
W - J	0 / 1834	-18.5	-18.5	0.19 (1)	10.00				
J - X	0	-18.5	-18.5	0.04 (4)	10.00				
X - Y	0	-18.5	-18.5	0.04 (4)	10.00				
Y - I	0	-18.5	-18.5	0.04 (4)	10.00				

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH. LL = 29.0 PSF
DL = 8.0 PSF
BOT CH. LL = 0.0 PSF
DL = 7.4 PSF
TOTAL LOAD = 42.4 PSF

SPACING = 24.0 IN. C/C

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

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

THIS DESIGN COMPLIES WITH:
- PART 9 OF NBC 2010, NBC 2012
- CSA 083-09, CSA 086-14
- TPIC 2011, TPIC 2014

(65% OF 37.6 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 29.0 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = L/360 (0.74)
CALCULATED VERT. DEFL.(LL) = L/999 (0.06)
ALLOWABLE DEFL.(TL) = L/360 (0.74)
CALCULATED VERT. DEFL.(TL) = L/999 (0.10)

CSI: TC=0.401/0 (H-H), BC=0.361/0 (K-L), WB=0.321/0 (H-J), SS=0.181/0 (K-L)

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	516	354	1667
	788	1987	1658

PLATE PLACEMENT TOL = 0.250 inches

PLATE ROTATION TOL = 5.0 Deg.

JSI GRIP = 0.48 (J) (INPUT = 0.90)
JSI METAL = 0.32 (J) (INPUT = 1.00)

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMVW-H	MT20	5.0	3.0	2.25	2.50
C	TMVW-H	MT20	4.0	3.0		
D	TMVW-H	MT20	2.0	3.0		
E	TMVW-H	MT20	4.0	3.0		
F	TS-I	MT20	3.0	5.0		
G	TMVW-H	MT20	5.0	3.0		
H	TMVW-H	MT20	5.0	3.0	2.00	2.50
I	BMV1-p	MT20	3.0	6.0		
J	BMVW-H	MT20	5.0	6.0	2.50	2.00
K	BMVW-H	MT20	5.0	6.0		
L	BMVW-H	MT20	5.0	6.0		
M	BS-I	MT20	5.0	6.0		
N	BMVW-H	MT20	5.0	6.0	3.00	2.00
O	BMV1-p	MT20	3.0	5.0		

FACTORED CONCENTRATED LOADS (LBS)

JT	LOC.	LC1	MAX-	MAX+	FACE	DIR.	TYPE	CONN.
F	14-6-14	-96	-96		FRONT	VERT	TOTAL	C1
H	22-2-10	-137	-137		FRONT	VERT	TOTAL	C1
I	22-2-10	-25	-25		FRONT	VERT	TOTAL	C1
P	12-6-14	-96	-96		FRONT	VERT	TOTAL	C1
Q	18-6-14	-96	-96		FRONT	VERT	TOTAL	C1
R	18-6-14	-96	-96		FRONT	VERT	TOTAL	C1
S	20-6-14	-96	-96		FRONT	VERT	TOTAL	C1
T	11-11-9	-830	-830		FRONT	VERT	TOTAL	C1
U	12-6-14	-17	-17		FRONT	VERT	TOTAL	C1
V	14-6-14	-17	-17		FRONT	VERT	TOTAL	C1
W	16-6-14	-17	-17		FRONT	VERT	TOTAL	C1
X	18-6-14	-17	-17		FRONT	VERT	TOTAL	C1
Y	20-6-14	-17	-17		FRONT	VERT	TOTAL	C1

LICENSED PROFESSIONAL ENGINEER

09/10/17

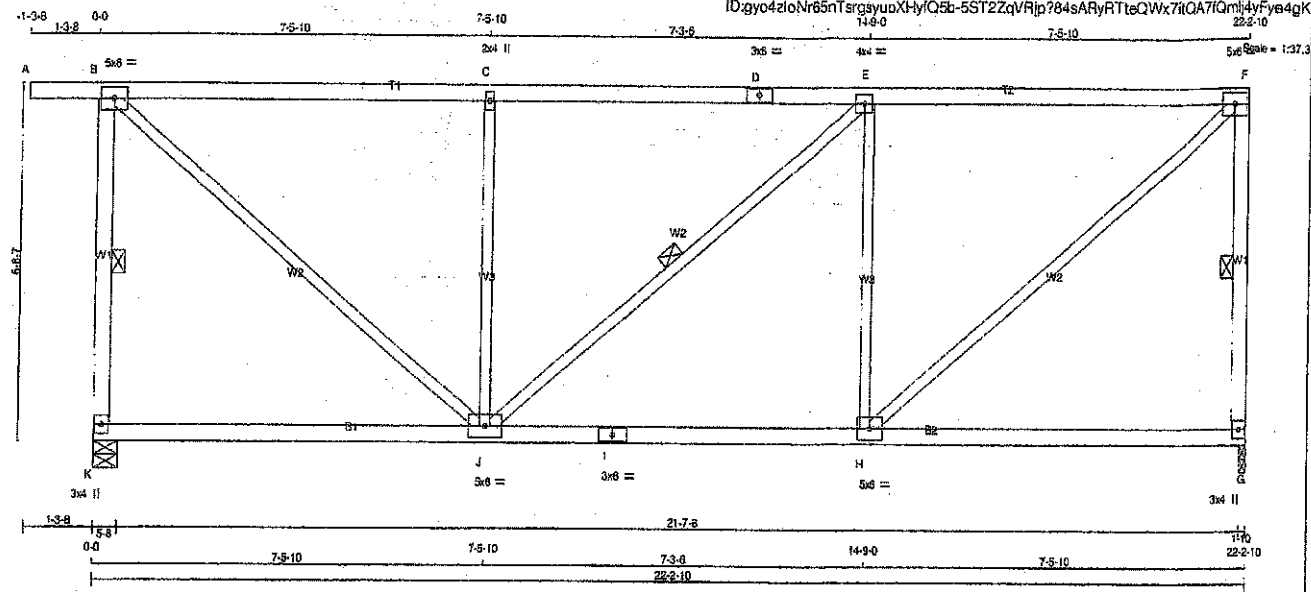
H. J. G. ALVES

100009024

PROVINCE OF ONTARIO

Structural component only
DWG# T-1923427

JOB NAME: 405486 TRUSS NAME: H32 QUANTITY: 8 PLY: 1 JOB DESC.: GREEN PARK HOMES TRUSS DESC.: TRUSS DESC. DRWG NO.:
 Tamarack Roof Truss, Burlington Version 8.300 5 May 10 2019 MTEK Industries, Inc. Fri Sep 13 10:42:49 2019 Page 1
 ID:gyo4zloNr65nTsrqsvuoXHy/Q5b-5ST2ZqVRlp784sARyRTteQWx7i0A7iQmJ4yFya4gK



TOTAL WEIGHT = 8 X 88 = 704 lb

LUMBER
 N. L. G. A. RULES
 CHORDS SIZE LUMBER DESCR. SPF

K - B	2x4	DRY	No.2	SPF
A - D	2x4	DRY	No.2	SPF
D - F	2x4	DRY	No.2	SPF
G - F	2x4	DRY	No.2	SPF
K - I	2x4	DRY	No.2	SPF
I - G	2x4	DRY	No.2	SPF

ALL WEBS 2x3 DRY, SEASONED LUMBER. No.2 SPF

PLATES (table is in inches)

JT TYPE	PLATES	W	LEN	Y	X
B	TMVW-1	MT20	5.0	6.0	
C	TMW+w	MT20	2.0	4.0	
D	TS-1	MT20	3.0	6.0	
E	TMVW-1	MT20	4.0	4.0	
F	TMVW-1	MT20	5.0	6.0	
G	BMV1-p	MT20	3.0	4.0	
H	BMVW-1	MT20	5.0	6.0	
I	ES-1	MT20	3.0	6.0	
J	BMVW-1	MT20	5.0	8.0	
K	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	REQRD BRG			
	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX
K	1471	0	1471	0	0	5-8	5-8
G	1339	0	1339	0	0	1-10	1-10

UNFACTORED REACTIONS

JT	1ST LGASE	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
K	1033	719.0	0.0	0.0	0.0	313.0	0.0
G	942	644.0	0.0	0.0	0.0	298.0	0.0

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

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 B-K, F-G, E-J.

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)

FR-TO	CHORDS				WEBS			
	MEMB.	FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. LC1 MAX. CSI (LC)	MEMB.	FACTORED FORCE (LBS)	MAX. LC1 MAX. CSI (LC)	
K-B		-1414 / 0	0.0	0.0 0.23 (1)	5.48	H-F	0 / 1520 0.34 (1)	
A-B		0 / 0	-102.0	-102.0 0.12 (1)	10.00	B-J	0 / 1518 0.34 (1)	
B-C		-1165 / 0	-102.0	-102.0 0.88 (1)	4.32	H-E	-825 / 0 0.58 (1)	
C-D		-1165 / 0	-102.0	-102.0 0.88 (1)	4.30	J-C	-825 / 0 0.58 (1)	
D-E		-1165 / 0	-102.0	-102.0 0.88 (1)	4.30	J-E	-2 / 0 0.00 (1)	
E-F		-1165 / 0	-102.0	-102.0 0.88 (1)	4.30			
G-F		-1282 / 0	0.0	0.0 0.25 (1)	5.69			
K-J		0 / 0	-18.5	-18.5 0.23 (4)	10.00			
J-I		0 / 1166	-18.5	-18.5 0.32 (4)	10.00			
I-H		0 / 1166	-18.5	-18.5 0.32 (4)	10.00			
H-G		0 / 0	-18.5	-18.5 0.23 (4)	10.00			

DESIGN CRITERIA

SPECIFIED LOADS:
 TOP CH. LL = 29.0 PSF
 DL = 6.0 PSF
 BOT CH. LL = 0.0 PSF
 DL = 7.4 PSF
 TOTAL LOAD = 42.4 PSF

SPACING = 24.0 IN. O.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, NBCC 2015

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

(85% OF 37.8 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 29.0 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = L/360 (0.74')
 CALCULATED VERT. DEFL.(LL) = L/999 (0.05')
 ALLOWABLE DEFL.(TL) = L/360 (0.74')
 CALCULATED VERT. DEFL.(TL) = L/999 (0.13')

CSI: TD=0.89/1.00 (E-F-1), BC=0.32/1.00 (H-J-1), WB=0.58/1.00 (E-H-1), SI=0.35/1.00 (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.

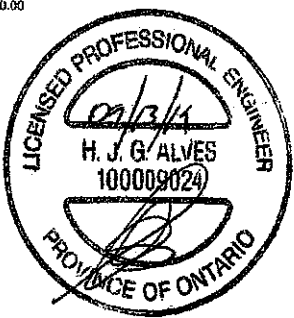
NAIL VALUES

PLATE GRIP (DRY)	SHEAR (PSI)	SECTION (PL)	(PL)			
MT20	618	354	1867	789	1987	1656

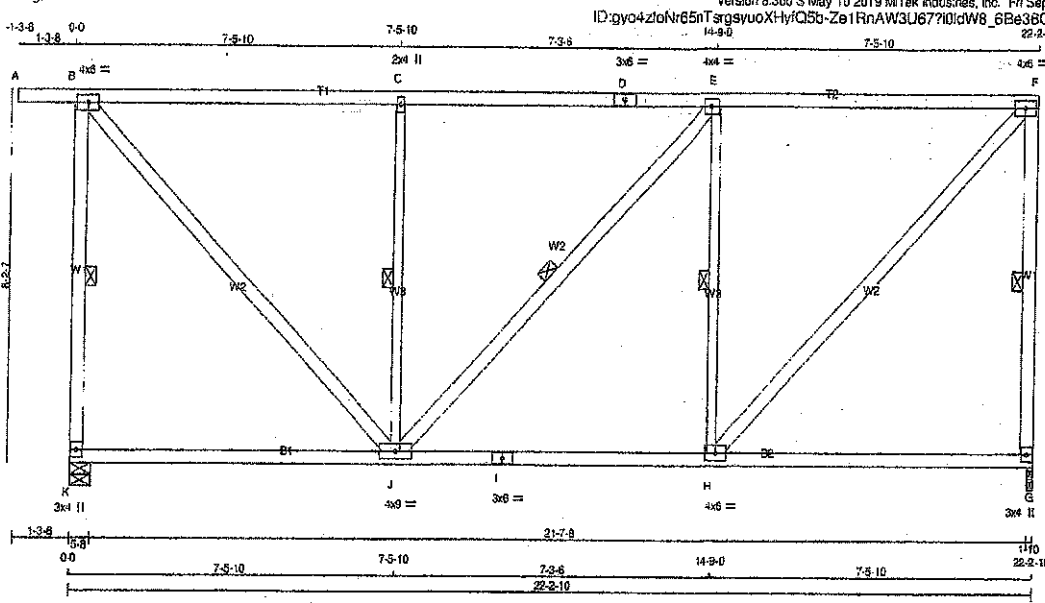
PLATE PLACEMENT TOL = 0.250 inches

PLATE ROTATION TOL = 5.0 Deg.

JSI GRIP = 0.80 (I) (INPUT = 0.80)
 JSI METAL = 0.38 (I) (INPUT = 1.00)



Structural component only
 DWG# T-1923428



LUMBER

N. L. G. A. RULES

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

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT TYPE	PLATES	W	LEN	Y	X
B	TMVW-1	MT20	4.0	6.0	
C	TMVW-w	MT20	2.0	4.0	
D	TS-4	MT20	3.0	6.0	
E	TMVW-1	MT20	4.0	4.0	
F	TMVW-1	MT20	4.0	6.0	
G	BMV1-p	MT20	3.0	4.0	
H	BMVW-t	MT20	4.0	6.0	
I	BS-1	MT20	3.0	6.0	
J	BMVWV-t	MT20	4.0	9.0	
K	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	REQD BRG
	VERT	HORZ	DOWN	HORZ		
K	1471	0	1471	0	5-8	5-8
G	1339	0	1339	0	1-10	1-10

UNFACTORED REACTIONS

JT	COMBINED	1ST LOASE		MAX./MIN. COMPONENT REACTIONS		DEAD	SOIL
		SNOW	LIVE	PERMALIVE	WIND		
K	1033	719/0	0/0	0/0	0/0	313/0	0/0
G	942	644/0	0/0	0/0	0/0	296/0	0/0

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

BRACING
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.74 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED

ALL PITCH BREAKS AND PERIMETER CORNER JOINTS MUST BE LATERALLY RESTRAINED.
1 LATERAL BRACE(S) AT 1/2 LENGTH OF B-K, F-G, E-H, C-J, E-J.

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

LOADING
TOTAL LOAD CASES: (4)

MEMB.	FR-TO	CHORDS		WEBS	
		MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. UNBRACED LENGTH	MAX. FACTORED FORCE (LBS)
K-B	-1414/0	0.0	0.0	0.43 (1)	5.48
A-B	0/0	-102.0	-102.0	0.12 (1)	10.00
B-C	-920/0	-102.0	-102.0	0.85 (1)	4.77
C-D	-920/0	-102.0	-102.0	0.85 (1)	4.75
D-E	-920/0	-102.0	-102.0	0.85 (1)	4.75
E-F	-921/0	-102.0	-102.0	0.85 (1)	4.74
G-F	-1283/0	0.0	0.0	0.85 (1)	5.68
K-J	0/0	-18.5	-18.5	0.23 (4)	10.00
J-I	0/921	-18.5	-18.5	0.30 (4)	10.00
I-H	0/921	-18.5	-18.5	0.30 (4)	10.00
H-G	0/0	-18.5	-18.5	0.23 (4)	10.00

DESIGN CRITERIA

SPECIFIED LOADS:
TOP CH. LL = 29.0 PSF
DL = 6.0 PSF
BOT CH. LL = 0.0 PSF
DL = 7.4 PSF
TOTAL LOAD = 42.4 PSF

SPACING = 24.0 IN./OC

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, NBCC 2015

THIS DESIGN COMPLIES WITH:
- PART 9 OF BCBC 2010, CBC 2012
- CSA 086-09, CSA 086-14
- TPIC 2011, TPIC 2014

(55% OF 37.8 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 29.0 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = L/360 (0.74")
CALCULATED VERT. DEFL.(LL) = L/589 (0.04")
ALLOWABLE DEFL.(TL) = L/360 (0.74")
CALCULATED VERT. DEFL.(TL) = L/899 (0.12")

CSI: TC=0.85/1.00 (E-F-1), BC=0.30/1.00 (H-J-4), WB=0.35/1.00 (E-H-1), SS=0.36/1.00 (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

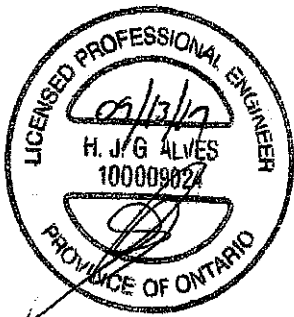
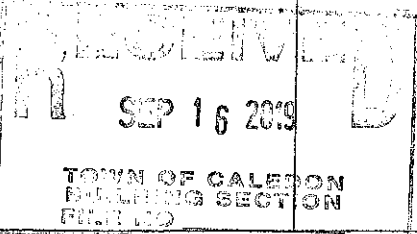
TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

NAIL VALUES

PLATE GRIP(DRY)	SHEAR (PSI)	SECTION (PL)
MT20	618	354 1657 788 1987 1656

PLATE PLACEMENT TOL = 0.250 inches
PLATE ROTATION TOL = 5.0 Deg.

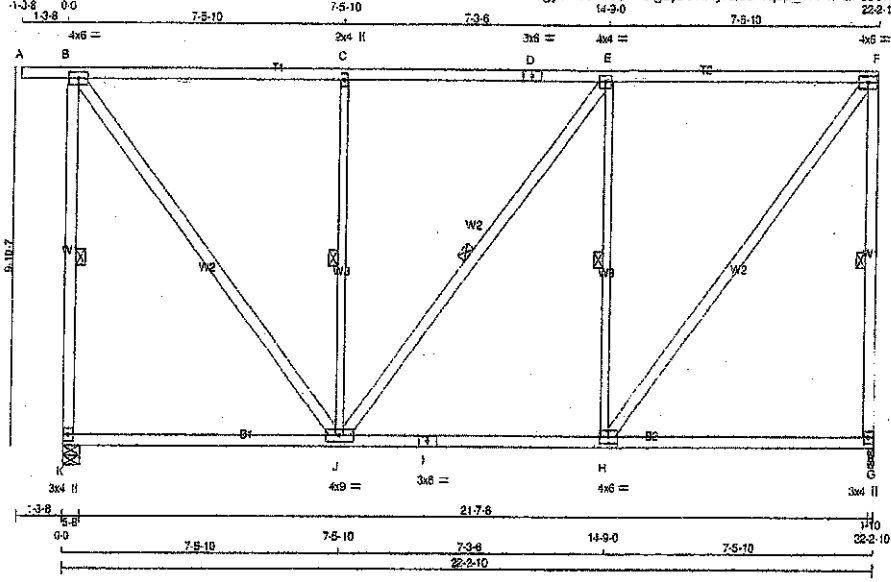
ISI GRIP = 0.82 (H) (INPUT = 0.90)
ISI METAL = 0.31 (F) (INPUT = 1.00)



Structural component only
DWG# T-1923429

JOB NAME: 405486 TRUSS NAME: H34 QUANTITY: 8 PLY: 1 JOB DESC.: GREEN PARK HOMES TRUSS DESC.: DRWG NO.:

Tamarack Roof Truss, Burlington, Version 8.300 5 May 10 2019 AATex Industries, Inc. Fri Sep 19 10:42:51 2019 Page 1 ID:gyo4zloNr65nTsgsyuoXHyQ5b-1qpp_WWIFQFsJ9Kd4sVLjrbHTVaKe2qjE3CA08ye4qj 22-2-10 Scale = 1:50.0



TOTAL WEIGHT = 8 X 128 = 1027 lb

LUMBER

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

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT TYPE	PLATES	W	LEN	Y	X
B	TMW-t	MT20	4.0	6.0	
C	TMW-w	MT20	2.0	4.0	
D	TS-t	MT20	3.0	6.0	
E	TMW-t	MT20	4.0	4.0	
F	TMW-t	MT20	4.0	6.0	
G	BMV-t	MT20	3.0	4.0	
H	BMW-t	MT20	4.0	6.0	
I	BS-t	MT20	3.0	6.0	
J	BMW-t	MT20	4.0	6.0	
K	BMV-t	MT20	3.0	4.0	

BEARINGS

JT	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SK	REQD
K	1471	0	1471	0	0	5-8	5-8
G	1339	0	1339	0	0	1-10	1-10

UNFACTORED REACTIONS

JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
K	1033	719.0	0.0	0.0	0.0	313.0	0.0
G	942	644.0	0.0	0.0	0.0	298.0	0.0

BRACING
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 5.13 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.
ALL PITCH BREAKS AND PERIMETER CORNER JOINTS MUST BE LATERALLY RESTRAINED.
1 LATERAL BRACE(S) AT 1/2 LENGTH OF B-K, F-G, E-H, C-J, E-J.
END VERTICAL(S) MUST BE SHEATHED OR HAVE BRACES AS INDICATED IN THE MAX. UNBRACED LENGTH COLUMN OF THE TABLE BELOW

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

LOADING

TOTAL LOAD CASES: (4)

MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (L)		MAX. CS1 (L)	MAX. UNBRACED LENGTH	MEMB.	MAX. FACTORED FORCE (LBS)	
		FROM	TO				FR-TO	CS1 (L)
K-B	-1414.0	0.0	0.0	0.66 (1)	5.48	H-F	0.1238	0.20 (1)
A-B	0.0	-102.0	-102.0	0.12 (1)	10.00	B-J	0.1290	0.20 (1)
B-C	-760.0	-102.0	-102.0	0.82 (1)	5.18	H-E	-828.0	0.54 (1)
C-D	-760.0	-102.0	-102.0	0.83 (1)	5.13	J-C	-825.0	0.54 (1)
D-E	-760.0	-102.0	-102.0	0.83 (1)	5.13	J-E	-2.0	0.00 (1)
E-F	-761.0	-102.0	-102.0	0.83 (1)	5.13			
G-F	-1283.0	0.0	0.0	0.60 (1)	5.69			
K-J	0.0	-18.5	-18.5	0.23 (4)	10.00			
J-I	0.761	-18.5	-18.5	0.23 (4)	10.00			
I-H	0.761	-18.5	-18.5	0.23 (4)	10.00			
H-G	0.0	-18.5	-18.5	0.23 (4)	10.00			

DESIGN CRITERIA

SPECIFIED LOADS:
TOP CH. LL = 29.0 PSF
DL = 6.0 PSF
BOT CH. LL = 0.0 PSF
DL = 7.4 PSF
TOTAL LOAD = 42.4 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, OBC 2012
- CSA 086-09, CSA 088-14
- TP10 2011, TPIC 2014

(55% OF 37.6 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 29.0 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = L/360 (0.74")
CALCULATED VERT. DEFL.(LL) = L/999 (0.04")
ALLOWABLE DEFL.(TL) = L/360 (0.74")
CALCULATED VERT. DEFL.(TL) = L/999 (0.11")

CSI: TC=0.83/1.00 (E-F:1), BC=0.29/1.00 (H-J:1), WB=0.54/1.00 (E-H:1), SS=0.38/1.00 (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.

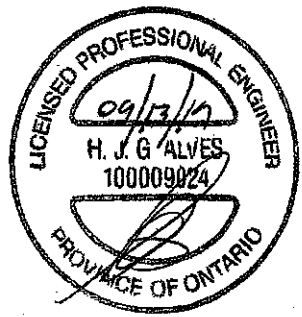
NAIL VALUES

PLATE	GRIP (DRY)	SHEAR (PSI)	SECTION (PLI)
MT20	618	354	1867 788 1987 1656

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

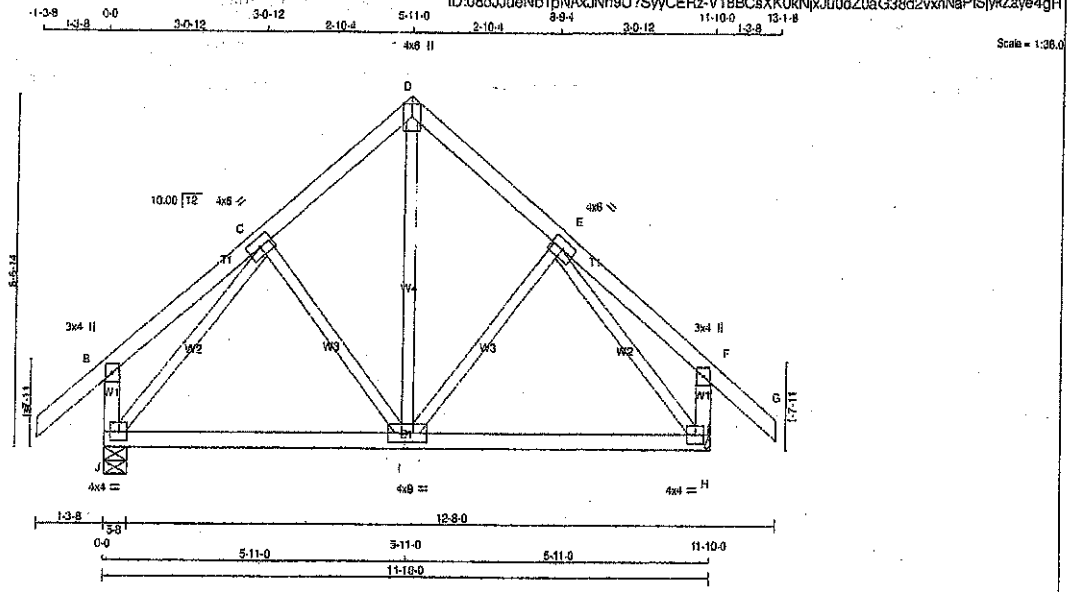
JSI GRIP = 0.81 (F) (INPUT = 0.80)
JSI METAL = 0.29 (F) (INPUT = 1.00)



Structural component only
DWG# T-1923430

JOB NAME 405486	TRUSS NAME H35-Cond1	QUANTITY 6	PLY 1	JOB DESC. GREEN PARK HOMES	TRUSS DESC.	DRWG NO.
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Tamarack Roof Truss, Burlington Version 8.300 S May 10 2019 MTEK Industries, Inc. Fri Sep 13 10:42:52 2019 Page 1
ID:08DJUeNb1pNAxJnN9U7SyyCERz-V18BCsXK0KNjxJlUdZ0aG38d2vxNnAPISjYkZaye4gH



TOTAL WEIGHT = 6 X 57 = 342 lb

LUMBER

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

ALL WEBS 2x3 DRY No.2
EXCEPT

DRY, SEASONED LUMBER.

PLATES (table is in inches)

JT TYPE	PLATES	W	LEN	Y	X
B TMW+p	MT20	3.0	4.0		
C TMWV-1	MT20	4.0	6.0		
D TTW+p	MT20	4.0	6.3	Edge	
E TMWV-1	MT20	4.0	6.0		
F TMW+p	MT20	3.0	4.0		
H BMWV-1	MT20	4.0	4.0		
I BMWV-1	MT20	4.0	9.0		
J BMWV-1	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	854	854	5-8	5-8
JT HORZ	0	0	MECHANICAL	MECHANICAL

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

UNFACTORED REACTIONS

JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
J	599	424 / 0	0 / 0	0 / 0	0 / 0	175 / 0	0 / 0
H	599	424 / 0	0 / 0	0 / 0	0 / 0	175 / 0	0 / 0

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

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

ALL PITCH BREAKS AND PERIMETER CORNER JOINTS MUST BE LATERALLY RESTRAINED

LOADING

TOTAL LOAD CASES: (4)

MEMB.	MAX. FACTORED FORCE (LBS)	CHORDS				WEBS			
		VERT. LOAD (PL)	LC1 MAX (LG)	LC2 MAX (LG)	MAX. UNBRAC (LG)	MEMB. FORCE (LBS)	MAX. UNBRAC (LBS)	MAX. FACTORED CS (LC)	
A-B	0 / 45	-102.0	-102.0	0.14 (1)	10.00	I-D	0 / 345	0.08 (1)	
B-C	0 / 22	-102.0	-102.0	0.14 (1)	10.00	E-E	-135 / 0	0.05 (1)	
C-D	-477 / 0	-102.0	-102.0	0.11 (1)	8.25	C-I	-135 / 0	0.05 (1)	
D-E	-477 / 0	-102.0	-102.0	0.11 (1)	8.25	J-C	-705 / 0	0.26 (1)	
E-F	0 / 22	-102.0	-102.0	0.14 (1)	10.00	E-H	-705 / 0	0.26 (1)	
F-G	0 / 45	-102.0	-102.0	0.14 (1)	10.00				
J-B	-257 / 0	0.0	0.0	0.03 (1)	7.81				
H-F	-257 / 0	0.0	0.0	0.03 (1)	7.81				
J-I	0 / 434	-18.5	-18.5	0.21 (4)	10.00				
I-H	0 / 434	-18.5	-18.5	0.21 (4)	10.00				

DESIGN CRITERIA

SPECIFIED LOADS:
TOP CH. LL = 29.0 PSF
DL = 6.0 PSF
BOT CH. LL = 0.0 PSF
DL = 7.4 PSF
TOTAL LOAD = 42.4 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, OBC 2012
- CSA 086-09, CSA 086-14
- TPIC 2011, TPIC 2014

(55% OF 37.8 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 29.0 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = L/360 (0.35")
CALCULATED VERT. DEFL.(LL) = 1/989 (0.01")
ALLOWABLE DEFL.(TL) = L/360 (0.35")
CALCULATED VERT. DEFL.(TL) = 1/999 (0.03")

CSI: TC=0.14/1.00 (A-B-I), BC=0.21/1.00 (I-J-4), WB=0.26/1.00 (E-H-I), SS=0.11/1.00 (D-E-I)

DOL LUMBER=1.00 NAIL=1.00 LS BEND=1 10
COMP=1.10 SHEAR=1.10 TENS=1.10

COMPANION LIVE LOAD FACTOR = 1.00

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

NAIL VALUES

PLATE GRIP (DRY)	SHEAR (PS)	SECTION (PL)
MT20	818	354
MT20	1687	788
MT20	1987	1656

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP = 0.55 (H) (INPUT = 0.90)
JSI METAL = 0.17 (E) (INPUT = 1.00)

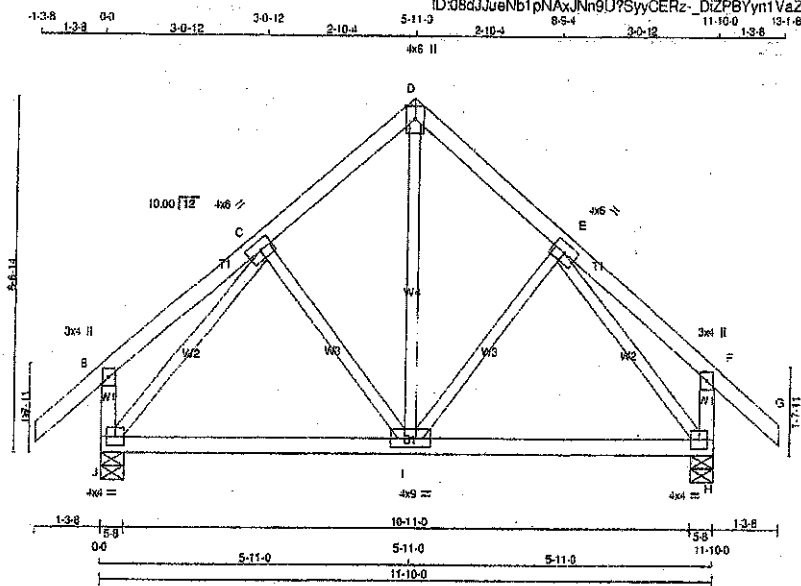


Structural component only
DWG# T-1923431

JOB NAME 405486	TRUSS NAME H35-Cond2	QUANTITY 6	PLY 1	JOB DESC. GREEN PARK HOMES	TRUSS DESC.	DRWG NO.
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Tamarack Roof Truss, Burlington

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Scale = 1:37.7

TOTAL WEIGHT = 8 X 57 = 345 lb

LUMBER

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

DRY: SEASONED LUMBER.

PLATES (Table Ia in inches)

JT TYPE	PLATES	W	LEN	Y	X
B	TMV+P	MT20	3.0	4.3	
C	TMVW+T	MT20	4.0	6.0	
D	TTW+P	MT20	4.0	6.0	Edge
E	TMVW+T	MT20	4.0	6.0	
F	TMV+P	MT20	3.0	4.0	
H	BMVW+T	MT20	4.0	4.0	
I	BMVW+T	MT20	4.0	9.0	
J	BMVW+T	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

JT	VERT	HORZ	MAXIMUM FACTORED GROSS REACTION DOWN	MAXIMUM FACTORED GROSS REACTION UP	INPUT BRG IN-SX	RECORD BRG IN-SX
J	854	0	854	0	5-8	5-8
H	854	0	854	0	5-8	5-8

UNFACTORED REACTIONS

JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
J	599	-24 / 0	0 / 0	0 / 0	0 / 0	175 / 0	0 / 0
H	599	-24 / 0	0 / 0	0 / 0	0 / 0	175 / 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)

MEMB.	FR-TO	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. LC1 (L)	MAX. UNBRACED LENGTH (L)	MEMB.	FR-TO	MAX. FACTORED FORCE (LBS)	MAX. LC1 (L)
A-B	0 / 45		-102.0	-102.0	0.14 (1)	10.00	F-D	0 / 345	0.08 (1)
B-C	0 / 22		-102.0	-102.0	0.14 (1)	10.00	F-E	-135 / 0	0.05 (1)
C-D	-477 / 0		-102.0	-102.0	0.11 (1)	6.25	C-I	-135 / 0	0.05 (1)
D-E	-477 / 0		-102.0	-102.0	0.11 (1)	6.25	J-C	-705 / 0	0.29 (1)
E-F	0 / 22		-102.0	-102.0	0.14 (1)	10.00	E-H	-705 / 0	0.26 (1)
F-G	0 / 45		-102.0	-102.0	0.14 (1)	10.00			
J-B	-257 / 0		0.0	0.0	0.03 (1)	7.81			
H-F	-257 / 0		0.0	0.0	0.03 (1)	7.81			
J-I	0 / 434		-18.5	-18.5	0.21 (4)	10.00			
I-H	0 / 434		-18.5	-18.5	0.21 (4)	10.00			

DESIGN CRITERIA

SPECIFIED LOADS:
TOP CH. LL = 29.0 PSF
DL = 6.0 PSF
BOT CH. LL = 0.0 PSF
DL = 7.4 PSF
TOTAL LOAD = 42.4 PSF

SPACING = 24.0 IN. C/C

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

THIS DESIGN COMPLIES WITH:
- PART 9 OF CBCG 2018, OBC 2012
- CSA 086-09, CSA 086-14
- TPIC 2011, TPIC 2014

(55% OF 37.6 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 29.0 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = L/360 (0.35")
CALCULATED VERT. DEFL.(LL) = L/999 (0.01")
ALLOWABLE DEFL.(TL) = L/360 (0.35")
CALCULATED VERT. DEFL.(TL) = L/999 (0.03")

CSI: TC=0.14/1.00 (A-B), BC=0.21/1.00 (I-J), WB=0.26/1.00 (E-H), SS=0.11/1.00 (D-E)

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.

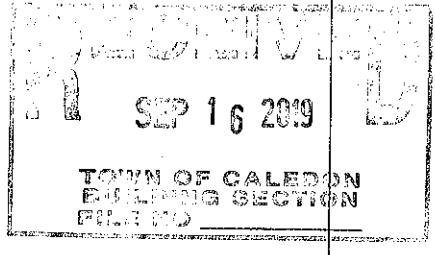
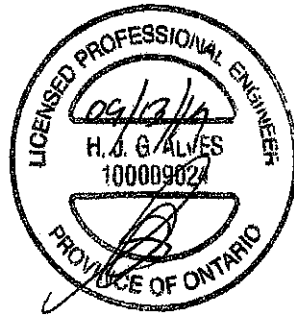
NAIL VALUES

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

PLATE PLACEMENT TOL = 0.250 inches

PLATE ROTATION TOL = 5.0 Deg.

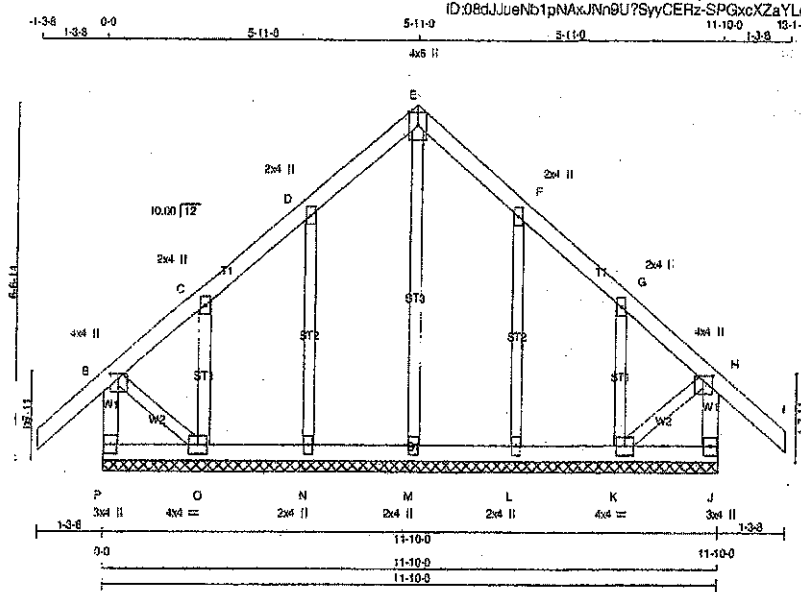
ISI GRIP= 0.55 (H) (INPUT = 0.90)
ISI METAL= 0.17 (E) (INPUT = 1.00)



Structural component only
DWG# T-1923432

JOB NAME 405486	TRUSS NAME H35G	QUANTITY 4	PLY 1	JOB DESC. GREEN PARK HOMES	TRUSS DESC.	DRWG NO.
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Camrack Roof Truss, Burlington Version 8.300 S May 10 2019 MiTek Industries, Inc. Fri Sep 13 10:42:54 2019 Page 1
 ID:08dJueNb1pNAxJNn9U?SyyCERz-SPGxcXZaYldRad2Pl_22LUDzXjJWJaw1RrdTye4gF
 11-10-0 13-1-8 Scale = 1:37.8



TOTAL WEIGHT = 4 X 58 = 230 lb

LUMBER

N. L. G. A. RULES	CHORDS	SIZE	LUMBER	DESCR.
P - B	2x4	DRY	No.2	SPF
A - E	2x4	DRY	No.2	SPF
E - I	2x4	DRY	No.2	SPF
J - H	2x4	DRY	No.2	SPF
P - J	2x4	DRY	No.2	SPF
ALL WEBS	2x3	DRY	No.2	SPF
ALL GABLE WEBS	2x3	DRY	No.2	SPF

DRY: SEASONED LUMBER.

GABLE STUDS SPACED AT 2-0-0 OC.

PLATES (table is in inches)

JT TYPE	PLATES	W	LEN	Y	X
B	TMVW+p	MT20	4.0	4.0	1.00 2.00
C, D, F, G					
C	TMVW+w	MT20	2.0	4.0	
E	TTW+p	MT20	4.0	6.0	Edge
H	TMVW+p	MT20	4.0	4.0	1.00 2.00
J	BMV1+p	MT20	3.0	4.0	
K	BMVW1+t	MT20	4.0	4.0	
L, M, N					
L	BMV1+w	MT20	2.0	4.0	
O	BMVW1+t	MT20	4.0	4.0	
P	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
 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)

MEMB.	CHORDS			WEBS		
	MAX. FACTORED FORCE (LBS)	VERT. LOAD (PLF)	FACTORED LCI MAX (1)	MAX. UNBRAC LENGTH (FT)	MEMB. FORCE (LBS)	MAX. FACTORED CSI (LC)
P-B	-312 / 0	0.0	0.0 0.03 (1)	7.81	M-E -149 / 0	0.10 (1)
A-B	0 / 45	-102.0	-102.0 0.14 (1)	10.00	N-D -245 / 0	0.09 (1)
B-C	-57 / 0	-102.0	-102.0 0.13 (1)	6.25	O-C -128 / 0	0.02 (1)
C-D	-10 / 0	-102.0	-102.0 0.07 (1)	6.25	L-F -245 / 0	0.09 (1)
D-E	-29 / 0	-102.0	-102.0 0.07 (1)	6.25	K-G -128 / 0	0.02 (1)
E-F	-29 / 0	-102.0	-102.0 0.07 (1)	6.25	B-G 0 / 25	0.01 (1)
F-G	-10 / 0	-102.0	-102.0 0.07 (1)	6.25	K-H 0 / 25	0.01 (1)
G-H	-57 / 0	-102.0	-102.0 0.13 (1)	6.25		
H-I	0 / 45	-102.0	-102.0 0.14 (1)	10.00		
J-H	-312 / 0	0.0	0.0 0.03 (1)	7.81		
P-O	0 / 0	-18.5	-18.5 0.02 (4)	10.00		
O-N	0 / 16	-18.5	-18.5 0.02 (4)	10.00		
N-M	0 / 11	-18.5	-18.5 0.02 (4)	10.00		
M-L	0 / 11	-18.5	-18.5 0.02 (4)	10.00		
L-K	0 / 16	-18.5	-18.5 0.02 (4)	10.00		
K-J	0 / 0	-18.5	-18.5 0.02 (4)	10.00		

DESIGN CRITERIA

SPECIFIED LOADS:
 TOP CH. LL = 29.0 PSF
 DL = 8.0 PSF
 BOT CH. LL = 0.0 PSF
 DL = 7.4 PSF
 TOTAL LOAD = 42.4 PSF

SPACING = 24.0 IN. OC

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

THIS DESIGN COMPLES WITH:
 - PART 9 OF BCBC 2018, OBC 2012
 - CSA 086-09, CSA 086-14
 - TPIC 2011, TPIC 2014

DESIGN ASSUMPTIONS
 OVERHANG NOT TO BE ALTERED OR CUT OFF.

(65% OF 37.8 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAM LOAD) EQUALS 29.0 P.S.F. SPECIFIED ROOF LIVE LOAD

CSI: TC=0.14/1.00 (H-t), BC=0.02/1.00 (K-L-t)
 WB=0.10/1.00 (E-M-t), SSI=0.08/1.00 (H-t)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

NAIL VALUES

PLATE GRIP (DRY)	SHEAR (PS)	SECTION (PL)
MAX	MIN	MAX
MT20	618 354	1867 798 1987 1856

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg

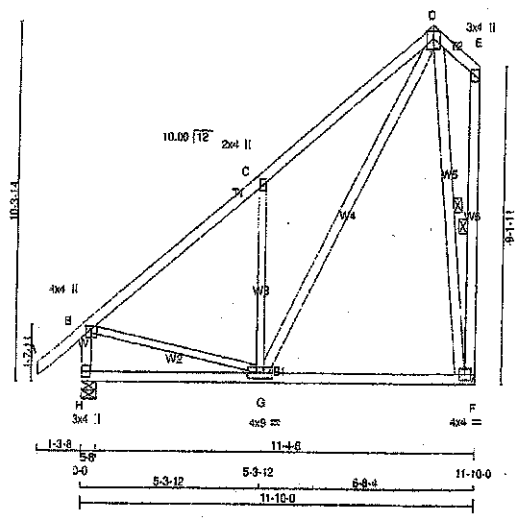
JSI GRIP = 0.24 (H) (INPUT = 0.99)
 JSI METAL = 0.13 (F) (INPUT = 1.00)



Structural component only
 DWG# T-1923433

JOB NAME: 405486 TRUSS NAME: H36-Cond1 QUANTITY: 4 PLY: 1 JOB DESC: GREEN PARK HOMES TRUSS DESC: DRWG NO.

Tamarack Roof Truss, Burlington Version 8.300 S May 10 2019 M Tek Industries, Inc. Fri Sep 13 10:42:55 2019 Page 1
 ID:08dJueNb1pNAXJNn9U?SyyCERz-wccQktaCJllondbJhaHuhmsu7yqavMJ8hAOvye4gE
 1-3-8 0-0 5-3-12 5-3-12 5-1-4 10-5-0 11-10-0 1-3-8 1-3-8 5-3-12 5-3-12 5-1-4 3x6 II 11-10-0 Scale = 1/8" = 1'-0"



TOTAL WEIGHT = 4 X 77 = 308 lb

LUMBER

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

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT TYPE	PLATES	W	LEN	Y	X
B	TMVW+p	MT20	4.0	4.0	1.00 2.00
C	TMVW+w	MT20	2.0	4.0	
D	TTWV+p	MT20	5.0	6.0	Edge
E	TMVW+p	MT20	3.0	4.0	
F	BMVW1-l	MT20	4.0	4.0	
G	BMVW1-l	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

BEARINGS

	FACTORED	MAXIMUM FACTORED	INPUT	RECORD
	GROSS REACTION	GROSS REACTION	BRG	BRG
JT	VERT	DOWN	HORIZ	UPLIFT
H	854	0	654	0
F	713	0	713	0

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

UNFACTORED REACTIONS

JT	COMBINED	SNOW	LIVE	PERMLIVE	WIND	DEAD	SOIL
H	669	424 / 0	0 / 0	0 / 0	0 / 0	175 / 0	0 / 0
F	502	343 / 0	0 / 0	0 / 0	0 / 0	159 / 0	0 / 0

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

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

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

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

LOADING

TOTAL LOAD CASES: (4)

MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)		MAX. CS1 (LC)	MAX. UNBRACED LENGTH	MEMB.	WEBS MAX. FACTORED FORCE (LBS)	
		FR-TO	FROM TO				FR-TO	CS1 (LC)
A-B	0 / 46	-102.0	-102.0	0.14 (1)	10.00	G-C	-643 / 0	0.37 (1)
B-C	-583 / 0	-102.0	-102.0	0.36 (1)	6.25	S-G	0 / 454	0.10 (1)
C-D	-589 / 0	-102.0	-102.0	0.36 (1)	6.25	D-F	-598 / 0	0.31 (1)
D-E	0 / 0	-102.0	-102.0	0.09 (1)	10.00	G-D	0 / 750	0.12 (1)
H-B	818 / 0	0.0	0.0	0.09 (1)	7.81			
F-E	-72 / 0	0.0	0.0	0.09 (1)	8.25			
H-G	0 / 0	-18.5	-18.5	0.19 (4)	10.00			
G-F	0 / 84	-18.5	-18.5	0.19 (4)	10.00			

DESIGN CRITERIA

SPECIFIED LOADS:
 TOP CH. LL = 29.0 PSF
 DL = 6.0 PSF
 BOT CH. LL = 0.0 PSF
 DL = 7.4 PSF
 TOTAL LOAD = 42.4 PSF

SPACING = 24.0 IN. OC

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, OBC 2012
 - CSA 088-09, CSA 088-14
 - TPIC 2011, TPIC 2014

(55% OF 37.6 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 29.0 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = L/360 (0.36")
 CALCULATED VERT. DEFL.(LL) = 1/398 (0.01")
 ALLOWABLE DEFL.(TL) = L/360 (0.36")
 CALCULATED VERT. DEFL.(TL) = 1/998 (0.06")

CS1: TC=0.36/1.00 (C-D:1), BC=0.19/1.00 (F-G:4), WB=0.37/1.00 (C-G:1), SS=0.20/1.00 (B-C:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE LEFT 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
MAX	MIN	MAX
MIN	MAX	MIN

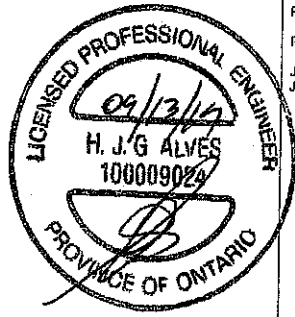
MT20 618 354 1667 788 1387 1656

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP = 0.76 (IB) (INPUT = 0.80)
 JSI METAL = 0.34 (C) (INPUT = 1.00)

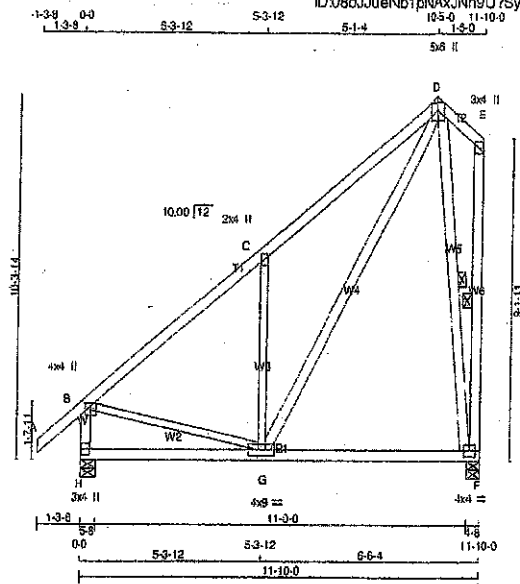
RECEIVED
 SEP 16 2019
 TOWN OF CALEDON
 BUILDING SECTION
 FILE NO.



Structural component only
 DWG# T-1923434

JOB NAME 405486	TRUSS NAME H36-Cond2	QUANTITY 4	PLY 1	JOB DESC. GREEN PARK HOMES	TRUSS DESC.	DRWG NO.
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Tamarack Roof Truss, Burlington Version 8.300 S May 10 2019 Mitek Industries, Inc. Fri Sep 13 10:42:55 2019 Page 1
 ID:08dJueNbpNAXJNn9U?SyyCERz-wocKqtaCJfJfndbJhatKuhm5u7yqavMJBhAO9vye4gE



TOTAL WEIGHT = 4 X 77 = 308 lb

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

DRY: SEASONED LUMBER.

PLATES (table is in inches)	JT TYPE	PLATES	W	LEN	Y	X
B	TMV+p	MT20	4.0	4.0	1.00	2.00
C	TMV+w	MT20	2.0	4.0		
D	TTW+p	MT20	5.0	6.0	Edge	
E	TMV+p	MT20	3.0	4.0		
F	BMVW+t	MT20	4.0	4.0		
G	BMVW+t	MT20	4.0	9.0		
H	BMV+t	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	MAXIMUM FACTORED	INPUT	RECORD
JT	VERT	GROSS REACTION	GROSS REACTION	BRG	BRG
H	854	0	854	0	5-8
F	713	0	713	0	4-8

UNFACTORED REACTIONS		MAX.-MIN. COMPONENT REACTIONS					
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
H	599	424 / 0	0 / 0	0 / 0	0 / 0	175 / 0	0 / 0
F	502	343 / 0	0 / 0	0 / 0	0 / 0	158 / 0	0 / 0

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

BRACING
 TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 6.25 FT.
 MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR RIGID CEILING DIRECTLY APPLIED.
 ALL PITCH BREAKS AND PERIMETER CORNER JOINTS MUST BE Laterally RESTRAINED.

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

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

LOADING
 TOTAL LOAD CASES: (4)

CHORDS		WEBS						
MEMB	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PL)	MAX. LCI (LC)	MAX. UNBRACED LENGTH (FT)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. LCI (LC)	
A-B	0 / 48	-102.0	-102.0	0.14 (1)	10.00	G-C	843 / 0	0.37 (1)
B-C	-533 / 0	-102.0	-102.0	0.36 (1)	8.25	B-G	0 / 454	0.10 (1)
C-D	-589 / 0	-102.0	-102.0	0.36 (1)	6.25	D-F	-398 / 0	0.31 (1)
D-E	0 / 0	-102.0	-102.0	0.03 (1)	10.00	G-D	0 / 750	0.12 (1)
H-B	-818 / 0	0.0	0.0	0.09 (1)	7.81			
F-E	-72 / 0	0.0	0.0	0.03 (1)	8.25			
H-G	0 / 0	-18.5	-18.5	0.19 (4)	10.00			
G-F	0 / 64	-18.5	-18.5	0.19 (4)	10.00			

DESIGN CRITERIA

SPECIFIED LOADS:
 TOP CH. LL = 28.0 PSF
 DL = 6.0 PSF
 BOT CH. LL = 0.0 PSF
 DL = 7.4 PSF
 TOTAL LOAD = 42.4 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, OBC 2012
 - CSA 086-09, CSA 086-14
 - TPIC 2011, TPIC 2014

(5% OF 87.6 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 28.0 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 (0.08")

CSI: TC=0.38/1.00 (C-D:1), BC=0.18/1.00 (F-G:1), WB=0.37/1.00 (C-G:1), SS=0.20/1.00 (B-C:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE LEFT HEEL ONLY

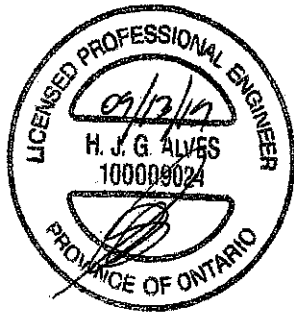
TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

PLATE	GRIP(DRY)	SHEAR (PS)	SECTION (PL)
MT20	618	354	1867
			788
			1987
			1656

PLATE PLACEMENT TOL = 0.250 inches

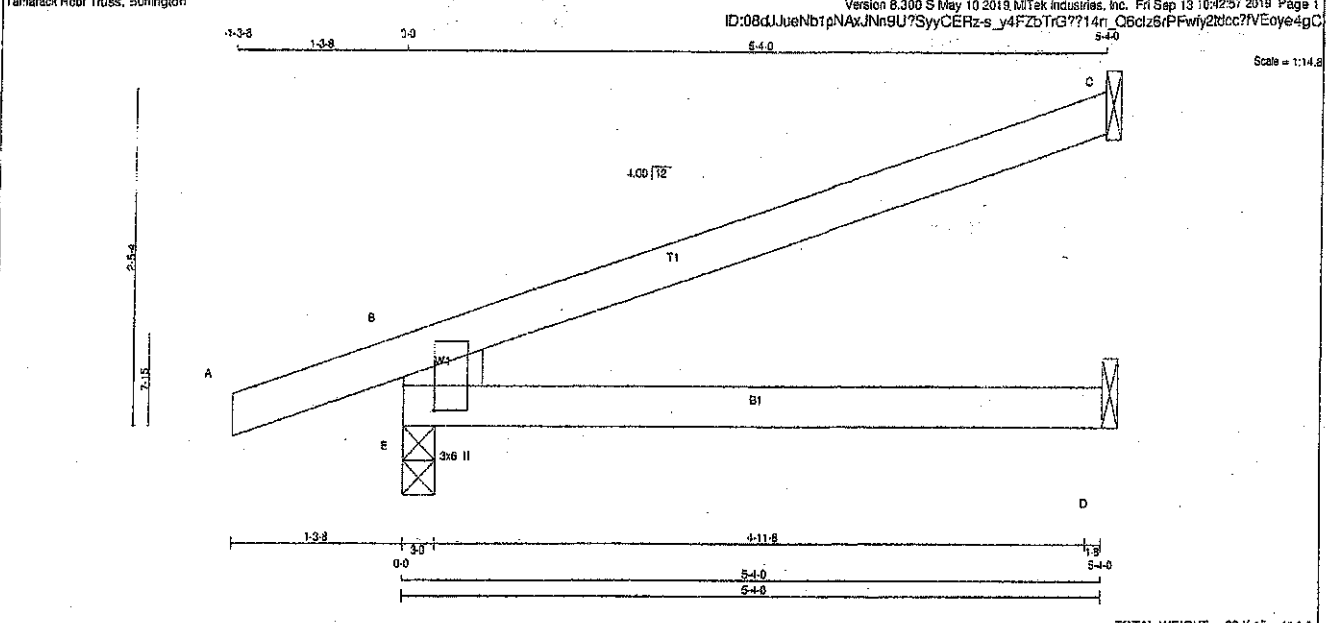
PLATE ROTATION TOL = 5.0 Deg.

JSI GRIP = 0.76 (B) (INPUT = 0.90)
 JSI METAL = 0.34 (C) (INPUT = 1.00)



Structural component only
 DWG# T-1923435

JOB NAME: 405486 TRUSS NAME: J3 QUANTITY: 28 PLY: 1 JOB DESC: GREEN PARK HOMES TRUSS DESC: DRWG NO. Tamarack Roof Truss, Burlington



LUMBER

N. L. G. A. RULES

CHORDS	SIZE	DRY	LUMBER	DESCR.
E - B	2x8	DRY	No.2	SPF
A - C	2x4	DRY	No.2	SPF
E - D	2x4	DRY	No.2	SPF

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT TYPE	PLATES	W	LEN	Y	X
E	TMBMV1+p MT20	3.0	6.0	2.25	2.75

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

BEARINGS

JT	FACTORED GROSS REACTION VERT	FACTORED GROSS REACTION HORZ	MAXIMUM FACTORED GROSS REACTION DOWN	INPUT BRG IN-SX	RECORD BRG IN-SX
E	538	0	538	0	3-0
C	204	0	204	0	1-8
D	37	0	42	0	1-8

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

UNFACTORED REACTIONS

JT	1ST LOASE COMBINED	MAX./MIN. SNOW	MIN. COMPONENT REACTIONS LIVE	PERM.LIVE	WIND	DEAD	SOIL
E	376	271/0	0/0	0/0	0/0	105/0	0/0
C	140	116/0	0/0	0/0	0/0	24/0	0/0
D	30	0/0	0/0	0/0	0/0	30/0	0/0

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

BRACING
 TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 6.25 FT.
 MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.
 ALL PITCH BREAKS AND PERIMETER CORNER JOINTS MUST BE LATERALLY RESTRAINED.

LOADING

TOTAL LOAD CASES: (4)

MEMB.	CHORDS				WEBS			
	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. LCI	MAX. CSI (LC)	MEMB. FORCE (LBS)	MAX. UNBRAC LENGTH	FR-TO	MAX. FACTORED CSI (LC)
E-B	-477/0	0.0	0.0	0.05 (4)		7.81		
A-B	0/22	-102.0	-102.0	0.13 (1)		10.00		
B-C	-22/0	-102.0	-102.0	0.49 (1)		6.25		
E-D	0/0	-18.5	-18.5	0.15 (4)		10.00		

DESIGN CRITERIA

SPECIFIED LOADS:
 TOP CH. LL = 20.0 PSF
 DL = 8.0 PSF
 BOT CH. LL = 0.0 PSF
 DL = 7.4 PSF
 TOTAL LOAD = 42.4 PSF

SPACING = 24.0 IN. CG
 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
 CSA 086-09, CSA 086-14
 TPIC 2011, TPIC 2014

DESIGN ASSUMPTIONS
 OVERHANG NOT TO BE ALTERED OR CUT OFF.
 (5% OF 37.6 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 29.0 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(TL) = L/360 (0.19")
 CALCULATED VERT. DEFL.(TL) = 0.999 (0.02")

CSI: TC=0.49/1.00 (B-C:1), BC=0.15/1.00 (D-E:4),
 WB=0.00/1.00 (A-D), SSI=0.25/1.00 (B-C:1)

DDL 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) (PS)	SHEAR (PL)	SECTION (PL)
MT20	518	354	1667 788 1967 1656

PLATE PLACEMENT TOL = 0.250 inches

PLATE ROTATION TOL = 5.0 Deg.

JSI GRIP = 0.24 (E) (INPUT = 0.90)
 JSI METAL = 0.09 (E) (INPUT = 1.00)

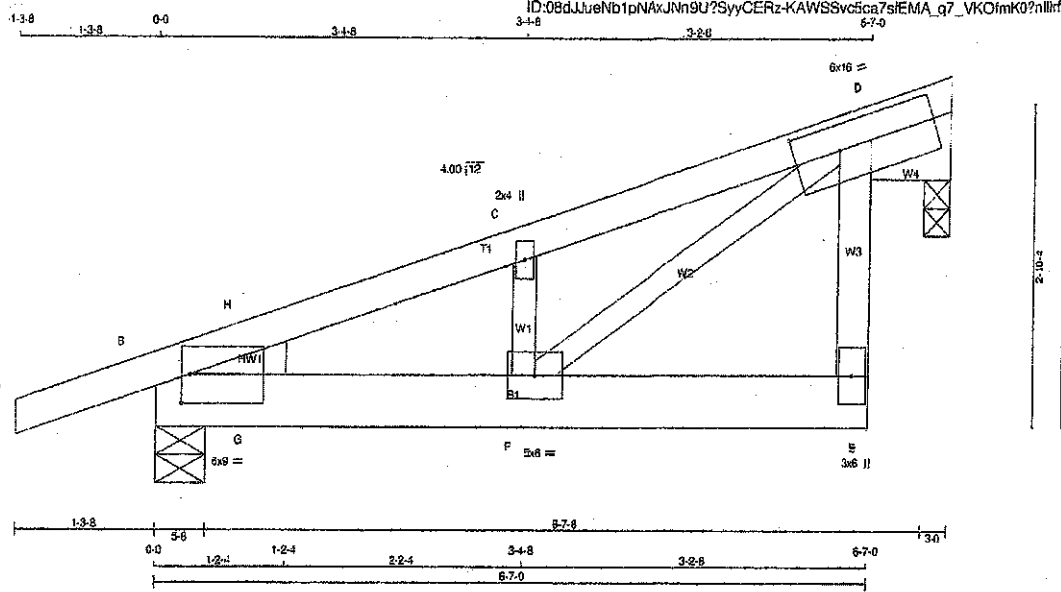


RECEIVED
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 BUILDING SECTION
 FILE NO.

Structural component only
 DWG# T-1923436

JOB NAME 405486	TRUSS NAME J4	QUANTITY 24	PLY 1	JOB DESC. GREEN PARK HOMES	DRWG NO.
Tamarack Roof Truss, Burlington				TRUSS DESC.	

Version 8.300 5 May 10 2019 M/Tek Industries, Inc. Fri Sep 13 10:42:58 2019 Page 1
ID:08dJueNp1NAXJm9U?SyyCERz-KAWSSvc5ca7sIFEMA_g7_VKOImK0?nllrfP2mEye4gB



TOTAL WEIGHT = 24 X 31 = 746 lb (N)(F)

LUMBER

N.L.G.A. RULES

CHORDS	SIZE	LUMBER	DESCR.
A - D	2x4	DRY	No.2
E - D	2x4	DRY	No.2
B - E	2x6	DRY	No.2

ALL WEBS 2x3 DRY SEASONED LUMBER.

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

BEARINGS

JT	FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG IN-SX	REQD BRG IN-SX	HEEL WEDGE
D	367 0	397 0	3-0	3-0	
B	583 0	583 0	5-8	5-8	2x4 L

DESIGN CRITERIA

SPECIFIED LOADS:
 TOP CH. LL = 29.0 PSF
 DL = 6.0 PSF
 BOT CH. LL = 0.0 PSF
 DL = 7.4 PSF
 TOTAL LOAD = 42.4 PSF

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMBH-I	MT20	6.0	9.0	3.00	1.00
C	TMBH-H	MT20	2.0	4.0		
D	TMBWW-I	MT20	6.0	16.0	2.75	5.00
E	BMV+P	MT20	3.0	6.0		
F	BMVW-I	MT20	5.0	6.0		

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

UNFACTORED REACTIONS

JT	1ST CASE COMBINED	SNOW	MAX/MIN LIVE	PERM LIVE	WIND	DEAD	SOIL
D	279	191/0	0/0	0/0	0/0	68/0	0/0
B	373	269/0	0/0	0/0	0/0	104/0	0/0

SPACING = 24.0 IN. OC

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

THIS DESIGN COMPLIES WITH:
 - PART 9 OF NBC 2010, OBC 2012
 - CSA B88-09, CSA 098-14
 - TPIC 2011, TPIC 2014

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

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

(55% OF 37.8 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 28.0 P.S.F. SPECIFIED ROOF LIVE LOAD

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

ALLOWABLE DEFL.(LL) = 1/880 (0.22")
 CALCULATED VERT. DEFL.(LL) = 1/988 (0.01")
 ALLOWABLE DEFL.(TL) = 1/360 (0.22")
 CALCULATED VERT. DEFL.(TL) = 1/898 (0.01")

LOADING
 TOTAL LOAD CASES: (4)

MEMB.	FR-TO	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PL)	FACTORED LC1 MAX. (LC)	MAX. UNBRACED LENGTH	WEBS	
						MEMB.	MAX. FACTORED FORCE (LBS)
A-B	0/8		-102.0	-102.0	0.13 (1)	10.00	F-D 343/0 0.05 (1)
B-H	-579/0		-102.0	-102.0	0.02 (1)	6.25	F-D 0/608 0.14 (1)
H-C	-510/0		-102.0	-102.0	0.09 (1)	6.25	G-H -1/23 0.00 (1)
C-D	-516/0		-102.0	-102.0	0.12 (1)	6.25	
E-D	0/46		0.0	0.0	0.01 (4)	10.00	
B-G	0/493		-18.5	-18.5	0.03 (1)	10.00	
G-F	0/493		-18.5	-18.5	0.10 (1)	10.00	
F-E	0/0		-18.5	-18.5	0.04 (1)	10.00	

CSI: TC=0.131.00 (A-B-1), BC=0.101.00 (F-G-1), WB=0.141.00 (D-F-1), SE=0.141.00 (C-D-1)

DCL LUMBER=1.00 NAIL=1.00 LENS 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.

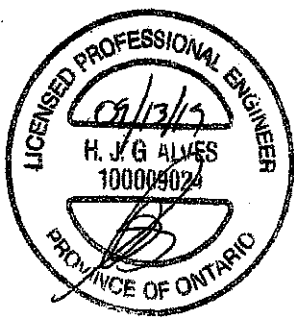
NAIL VALUES

PLATE	GRIP (DRY) (PS)	SHEAR (PL)	SECTION (PL)
MT20	519	354	1657 788 1987 1858

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

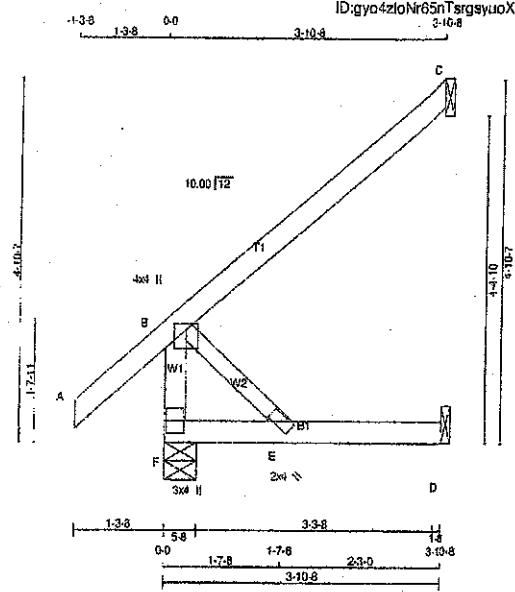
ISI GRIP = 0.29 (F) (INPUT = 0.90)
 ISI METAL = 0.13 (F) (INPUT = 1.00)



Structural component only
 DWG# T-1923437

JOB NAME 405486	TRUSS NAME JB	QUANTITY 24	PLY 1	JOB DESC. GREEN PARK HOMES	TRUSS DESC.	DRWG NO.
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Tamarack Roof Truss, Burlington
 Version 8.300 5 May 10 2019 Mitek Industries, Inc. Fri Sep 13 10:33:00 2019 Page 1
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LUMBER

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

ALL WEBS 2x3 DRY No.2 SPF
 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	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	REQRD BRG
F	375 0	375 0	5-8	5-8
C	198 0	198 0	1-8	1-8
D	36 0	40 0	1-8	1-8

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

UNFACTORED REACTIONS

JT	1ST CASE COMBINED	MAX/MIN. LIVE	PERM. LIVE	WIND	DEAD	SOIL
F	231	193/0	0/0	0/0	69/0	0/0
C	136	112/0	0/0	0/0	23/0	0/0
D	29	0/0	0/0	0/0	29/0	0/0

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

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

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

LOADING
 TOTAL LOAD CASES: (5)

MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	LC1	MAX. CSI (LC)	UNBRAC LENGTH	WEBS	
						MAX. FORCE (LBS)	MAX. CSI (LC)
F-B	-339/0	0.0	0.0	0.04 (1)	7.61	2-E	0/0 0.00 (1)
A-B	0/45	-102.0	-102.0	0.15 (5)	10.00		
B-C	0/0	-102.0	-102.0	0.26 (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 = 24 X 15 = 367 lb

DESIGN CRITERIA

SPECIFIED LOADS:
 TOP CH. LL = 29.0 PSF
 DL = 6.0 PSF
 BOT. CH. LL = 0.0 PSF
 DL = 7.4 PSF
 TOTAL LOAD = 42.4 PSF

SPACING = 24.0 IN. OC

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
 - CSA 086-09, CSA 086-14
 - TPIC 2011, TPIC 2014

(55% OF 37.5 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 29.0 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = L/360 (0.13')
 CALCULATED VERT. DEFL.(LL) = L/999 (0.00')
 ALLOWABLE DEFL.(TL) = L/360 (0.13')
 CALCULATED VERT. DEFL.(TL) = L/999 (0.01')

CSI: TC=0.28/1.00 (B-C:1), BC=0.08/1.00 (D-E:4), WB=0.00/1.00 (B-E:1), SS=0.12/1.00 (B-C:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE RIGHT HEEL ONLY

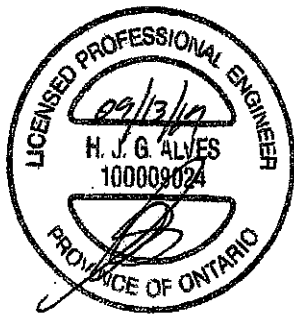
TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

NAIL VALUES

PLATE	GRIP (DRY)	SHEAR (PSI)	SECTION (PL)
MT20	618	354	1667 708 1987 1956

PLATE PLACEMENT TOL. = 0.250 inches
 PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP = 0.26 (B) (INPUT = 0.90)
 JSI METAL = 0.07 (B) (INPUT = 1.00)



Structural component only
 DWG# T-1923438



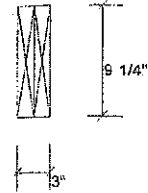
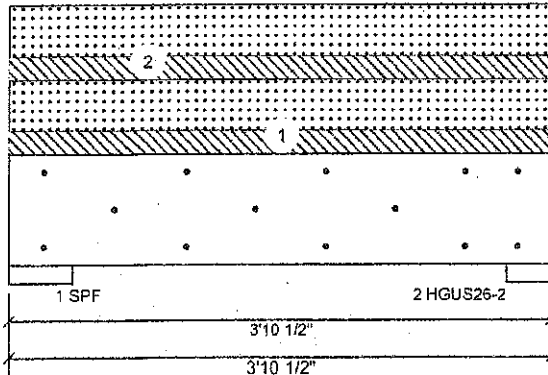
isDesign™

Client:
Project:
Address:

Date: 2/2019
Designer:
Job Name: 405486
Project #:

B1 S-P-F #2 2.000" X 10.000" 2-Ply - PASSED

Level: Level



Member Information

Type:	Girder	Application:	Roof (Residential)
Plies:	2	Slope:	0/12
Moisture Condition:	Dry	Design Method:	LSD
Deflection LL:	360	Building Code:	NBCC 2015 / OBC 2012
Deflection TL:	360	Load Sharing:	No
Importance:	Normal	Deck:	Not Checked
		Vibration:	Not Checked

Unfactored Reactions UNPATTERNED lb (Uplift)

Brg	Live	Dead	Snow	Wind
1	0	185	401	0
2	0	174	376	0

Bearings and Factored Reactions

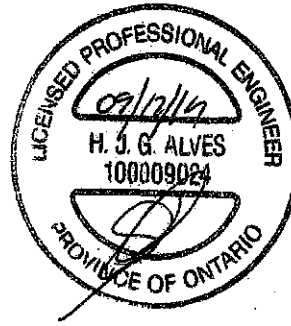
Bearing	Length	Cap. React D/L lb	Total Ld. Case	Ld. Comb.
1 - SPF	5.500"	8%	232 / 602	633 L 1.25D+1.5S
2 - HGUS...	4.000"	11%	217 / 584	781 L 1.25D+1.5S

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	536 ft-lb	2'	6039 ft-lb	0.089 (9%)	1.25D+1.5S	L
Unbraced	536 ft-lb	2'	5734 ft-lb	0.094 (9%)	1.25D+1.5S	L
Shear	669 lb	1'2"	3984 lb	0.168 (17%)	1.25D+1.5S	L
LL Defl inch	0.002 (L/21944)	2'	0.107 (L/360)	0.020 (2%)	S	L
TL Defl inch	0.003 (L/15009)	2'	0.107 (L/360)	0.020 (2%)	D+S	L

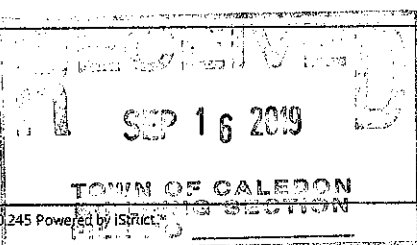
Design Notes

- 1 Fasten all plies using 3 rows of Pneumatic Gun Nail (.120x3.25") at 12" o.c. Maximum end distance not to exceed 6".
- 2 Refer to last page of calculations for fasteners required for specified loads.
- 3 Girders are designed to be supported on the bottom edge only.
- 4 Top braced at bearings.
- 5 Bottom braced at bearings.
- 6 Lateral slenderness ratio based on single ply width.



DWG NO. TAM 1923439
STRUCTURAL
COMPONENT ONLY 1/2

ID	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments
1	Uniform		1-0-0	Far Face	13.4 PSF	0 PSF	29 PSF	0 PSF	
2	Uniform		5-11-0	Near Face	13.4 PSF	0 PSF	29 PSF	0 PSF	



This design is valid until 12/11/2021

Manufacturer Info	Tamarack Roof Trusses 3255 North Service Road, ON L7N 3G2 905-335-1115
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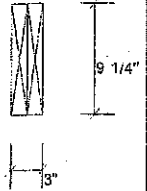
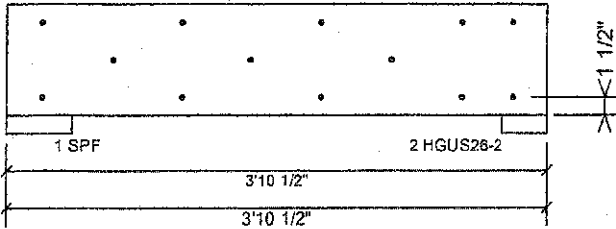
isDesign™

Client:
Project:
Address:

Date: 2/2019
Designer:
Job Name: 405486
Project #:

B1 S-P-F #2 2.000" X 10.000" 2-Ply - PASSED

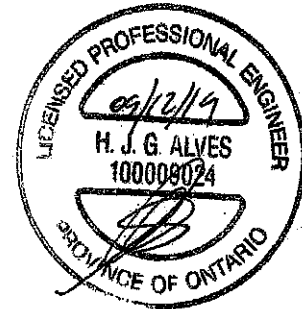
Level: Level



Multi-Ply Analysis

Fasten all plies using 3 rows of Pneumatic Gun Nail (.120x3.25") at 12" o.c. Maximum end distance not to exceed 6"

Capacity	52.4 %
Load	178.2 PLF
Yield Limit per Foot	340.0 PLF
Yield Limit per Fastener	113.3 lb.
Yield Mode	9
Edge Distance	1 1/2"
Min. End Distance	3"
Load Combination	1.25D+1.5S
Duration Factor	1.00



DWG NO. TAM T1923439
STRUCTURAL
COMPONENT ONLY 2/2

Manufacturer Info	Tamarack Roof Trusses 3255 North Service Road. ON L7N 3G2 905-335-1115

This design is valid until 12/11/2021





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.

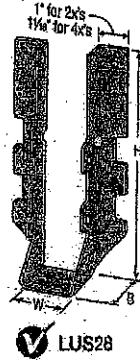
Finish: Galvanized. Some products available in stainless steel or ZMAX® coating; see Corrosion Information, pp. 20–24.

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.



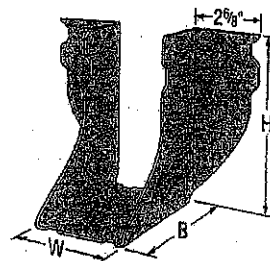
LUS28



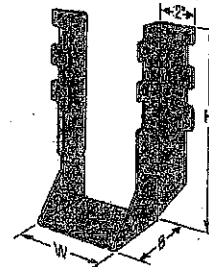
LU26L



HUS210
(HUS26, HUS28, and HHUS similar)



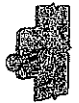
HGUS28-2



HHUS210-2



Double-Shear Nailing Top View



Double-Shear Nailing Side View; Do not bend tab

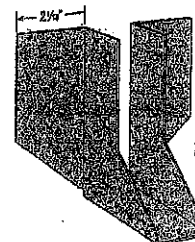
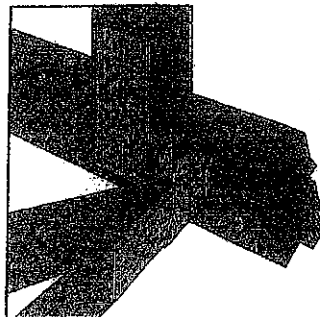


Dome Double-Shear Nailing Side View (available on some models)
U.S. Patent 5,803,560

Plated Truss Connectors

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



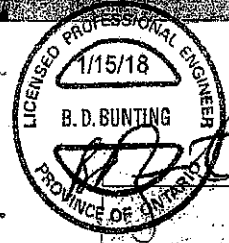
LJS28DS

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BUILDING SECTION

Simpson Strong-Tie® Wood Construction Connectors – Canadian Limit States Design

LUL/LUS/LJS/HUS/HHUS/HGUS

SIMPSON
Strong-Tie

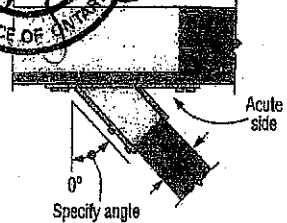


HHUS/HGUS

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



Top View HHUS Hanger Skewed Right
(joist must be bevel cut)
All joist nails installed on the outside angle (non-acute side).

HGUS – Skewed Seat

• HGUS hangers can be skewed only to a maximum of 46°. 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

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.

Plated Truss Connectors

Model No.	GA.	Dimensions (in.)				Fasteners		Factored Resistance			
		W	H	B	c ₆ ^a	Header	Joist	Uplift		S-P-F	
								lb.	lb.	(K _u = 1.15)	(K _o = 1.00)
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
LU24L	22	1 1/8	3	1 1/4	2 1/8	(4) 10d	(2) 10d x 1 1/2"	360	1020	320	725
LU26L	22	1 1/8	5	1 1/4	4 1/4	(6) 10d	(4) 10d x 1 1/2"	720	1605	645	1140
LUS26	18	1 1/8	4 1/4	1 1/4	3 1/4	(4) 10d	(4) 10d	1420	2170	1290	1630
HUS26	16	1 1/8	5 1/4	3	3 1/8	(14) 16d	(6) 16d	2705	4940	2065	3875
LJS26DS	18	1 1/8	5	3 1/4	4 1/4	(16) 16d	(6) 16d	2055	4265	1460	4115
HGUS26	12	1 1/8	5 1/4	5	4 1/4	(20) 16d	(8) 16d	2685	6825	2685	6700
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
LUS28	18	1 1/8	6 1/4	1 1/4	3 1/4	(8) 10d	(4) 10d	1420	2620	1290	1790
HUS28	16	1 1/8	7 1/4	3	5 1/8	(22) 16d	(8) 16d	3605	5365	2875	4345
HGUS28	12	1 1/8	7 1/4	5	6 1/4	(38) 16d	(12) 16d	3310	7875	3310	6900
LU210L	20	1 1/8	8	1 1/4	7 1/4	(10) 10d	(6) 10d x 1 1/2"	1140	2495	1020	1770
LUS210	18	1 1/8	7 1/4	1 1/4	3 1/4	(8) 10d	(4) 10d	1420	2785	1290	2210

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. c₆ 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.

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Simpson Strong-Tie® Wood Construction Connectors -- Canadian Limit States Design

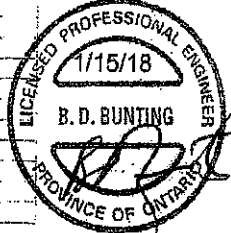


Face-Mount Hangers

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.

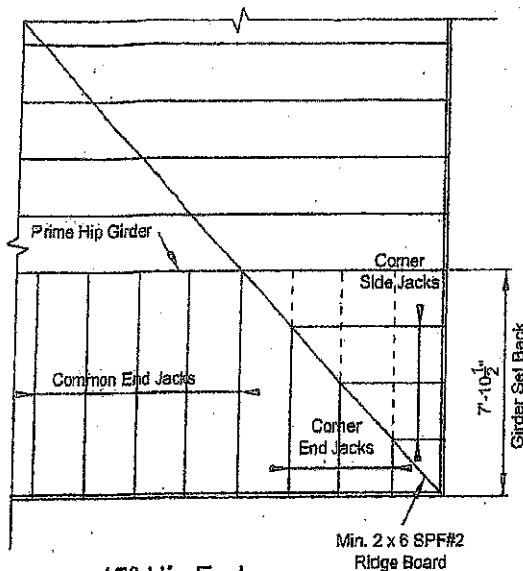
Model No.	Ga.	Dimensions (in.)				Fasteners		Factor of Resistance			
		W	H	B	d _e	Header	Joist	D-F-L		S-P-F	
								Uplift (K _u = 1.75)	Normal (K _n = 1.00)	Uplift (K _u = 1.75)	Normal (K _n = 1.00)
lb.	lb.	lb.	lb.	lb.	lb.	lb.	lb.	lb.	lb.		
Double 2x Sizes											
LUS24-2	18	3 1/4	3 1/4	2	1 1/2	(4) 16d	(2) 16d	835	2020	590	1435
LUS26-2	18	3 1/4	4 1/4	2	4	(4) 16d	(4) 16d	1720	2595	1545	1920
HHUS26-2	14	3 1/4	5 1/4	3	3 1/4	(14) 16d	(6) 16d	2850	7335	2085	5205
HGUS26-2	12	3 1/4	5 1/4	4	4 1/4	(20) 16d	(8) 16d	4385	8950	3110	6355
LUS28-2	18	3 1/4	7	2	4	(6) 16d	(4) 16d	1720	3325	1545	2575
HHUS28-2	14	3 1/4	7 1/4	3	6 1/4	(22) 16d	(8) 16d	3765	8940	2875	6345
HGUS28-2	12	3 1/4	7 1/4	4	6 1/4	(36) 16d	(12) 16d	6070	12980	4310	9215
LUS210-2	18	3 1/4	9	2	6	(8) 16d	(6) 16d	2580	4500	2320	3195
HHUS210-2	14	3 1/4	9 1/4	3	8	(30) 16d	(10) 16d	4670	9660	4235	7000
HGUS210-2	12	3 1/4	9 1/4	4	8 1/4	(48) 16d	(16) 16d	6840	14015	4855	10270
Triple 2x Sizes											
HGUS26-3	12	4 1/4	5 1/4	4	4 1/4	(26) 16d	(8) 16d	4385	8950	3110	6355
HGUS28-3	12	4 1/4	7 1/4	4	6 1/4	(36) 16d	(12) 16d	6070	12980	4310	9215
HHUS210-3	14	4 1/4	9	3	7 1/4	(36) 16d	(10) 16d	4670	9670	4235	6865
HGUS210-3	12	4 1/4	9 1/4	4	8 1/4	(48) 16d	(16) 16d	6840	14645	4855	10400
Quadruple 2x Sizes											
HGUS26-4	12	6 1/4	5 1/4	4	4 1/4	(20) 16d	(8) 16d	4385	8950	3110	6355
HGUS28-4	12	6 1/4	7 1/4	4	6 1/4	(36) 16d	(12) 16d	6070	12980	4310	9215
HHUS210-4	14	6 1/4	8 1/4	3	7 1/4	(36) 16d	(10) 16d	4670	10155	4235	7210
HGUS210-4	12	6 1/4	9 1/4	4	8 1/4	(48) 16d	(16) 16d	6840	14645	4855	10400
HGUS212-4	12	6 1/4	10 1/4	4	10 1/4	(56) 16d	(20) 16d	7640	14995	5425	10645
HGUS214-4	12	6 1/4	12 1/4	4	11 1/4	(66) 16d	(24) 16d	10130	16400	7195	11645
4x Sizes											
LUS46	18	3 1/4	4 1/4	2	3 1/4	(4) 16d	(4) 16d	1720	2595	1545	1920
HHUS46	14	3 1/4	5 1/4	3	3 1/4	(14) 16d	(6) 16d	2540	7335	2085	5205
HGUS46	12	3 1/4	5 1/4	4	4 1/4	(20) 16d	(8) 16d	4385	8950	3110	6355
LUS48	18	3 1/4	6 1/4	2	3 1/4	(6) 16d	(4) 16d	1720	3325	1545	2575
HHUS48	14	3 1/4	7 1/4	3	6 1/4	(22) 16d	(8) 16d	3765	8940	2875	6345
HGUS48	12	3 1/4	7 1/4	4	6 1/4	(36) 16d	(12) 16d	6070	12980	4310	9215
LUS410	18	3 1/4	8 1/4	2	5 1/4	(8) 16d	(6) 16d	2580	4500	2320	3195
HGUS410	12	3 1/4	9	4	8 1/4	(48) 16d	(16) 16d	6840	14015	4855	10270
HGUS412	12	3 1/4	10 1/4	4	10 1/4	(56) 16d	(20) 16d	7640	14995	5425	10645
HGUS414	12	3 1/4	12 1/4	4	11 1/4	(66) 16d	(24) 16d	10130	16400	7195	11645



Plated Truss Connectors

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See footnotes on p. 256.



45° Hip End

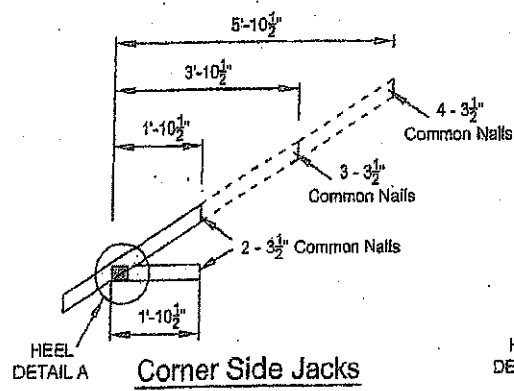
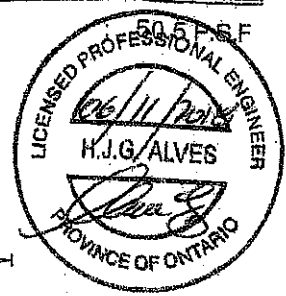
LUMBER SPECIFICATION

TOP CHORD : 2 x 4 SPF#2
 BOTTOM CHORD : 2 x 4 SPF#2
 WEBS : 2 x 3 SPF#2
 UNLESS OTHERWISE SHOWN

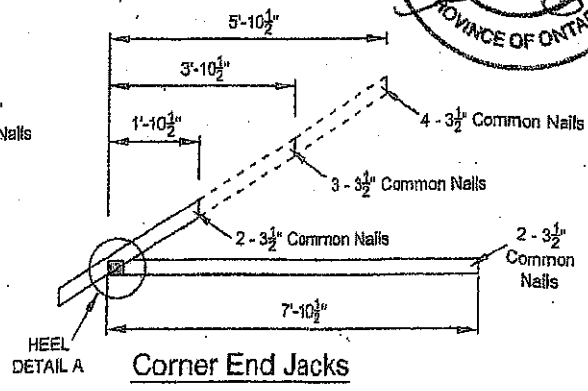
DESIGN LOAD

TOP CHORD SNOW LOAD : 40.5 P.S.F.
 TOP CHORD DEAD LOAD : 3.0 P.S.F.
 BOTTOM CHORD LIVE LOAD : 0.0 P.S.F.
 BOTTOM CHORD DEAD LOAD : 7.0 P.S.F.

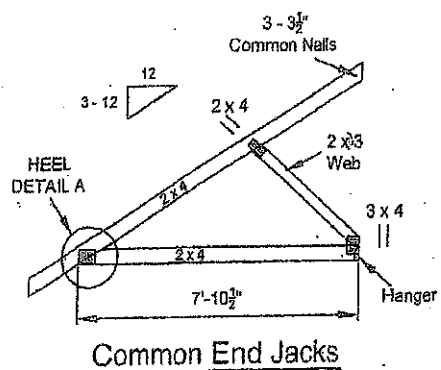
TOTAL LOAD



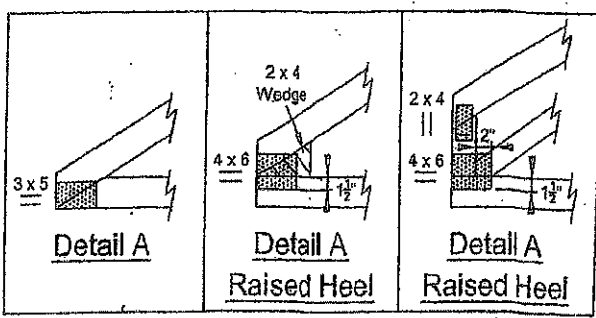
Corner Side Jacks



Corner End Jacks



Common End Jacks



Detail A

Detail A

Detail A

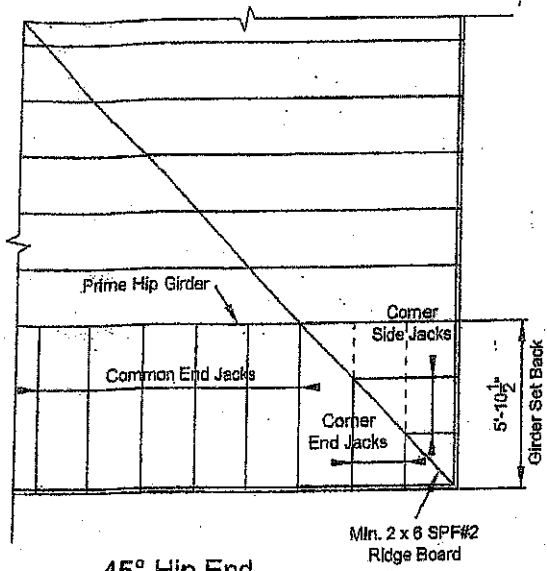
Raised Heel

Raised Heel

NOTE: DESIGN CONFORMS TO PART 9, O.B.C. 2012 (L.S.D. DESIGN)

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45° Hip End

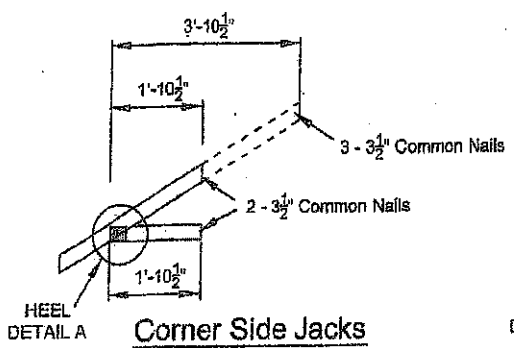
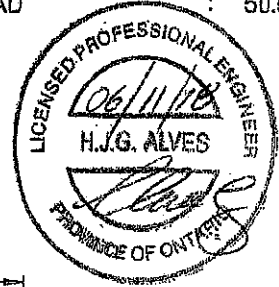
LUMBER SPECIFICATION

- TOP CHORD : 2 x 4 SPF#2
- BOTTOM CHORD : 2 x 4 SPF#2
- WEBS : 2 x 3 SPF#2
- UNLESS OTHERWISE SHOWN

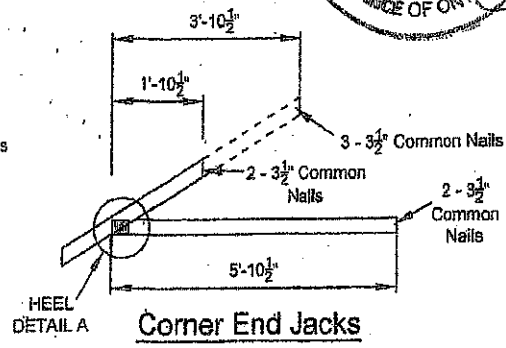
DESIGN LOAD

- TOP CHORD SNOW LOAD : 40.5 P.S.F.
- TOP CHORD DEAD LOAD : 3.0 P.S.F.
- BOTTOM CHORD LIVE LOAD : 0.0 P.S.F.
- BOTTOM CHORD DEAD LOAD : 7.0 P.S.F.

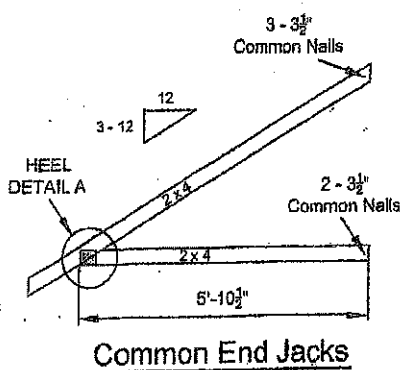
- TOTAL LOAD : 50.5 P.S.F.



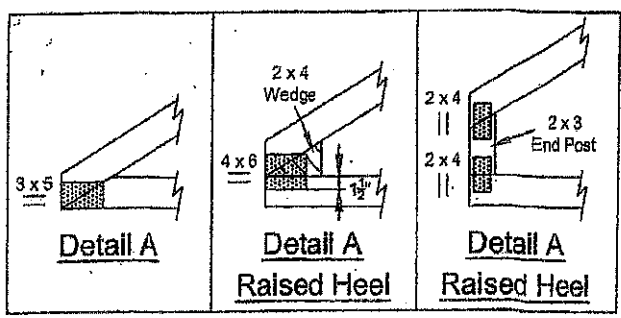
Corner Side Jacks



Corner End Jacks



Common End Jacks



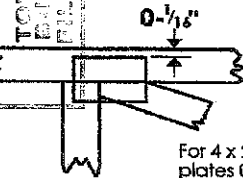
NOTE: DESIGN CONFORMS TO PART 9, O.B.C. 2012 (L.S.D. DESIGN)

T-1800216

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 0-1/4" from outside edge of truss.



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

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

PLATE SIZE

4 x 4

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

LATERAL BRACING LOCATION



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

BEARING



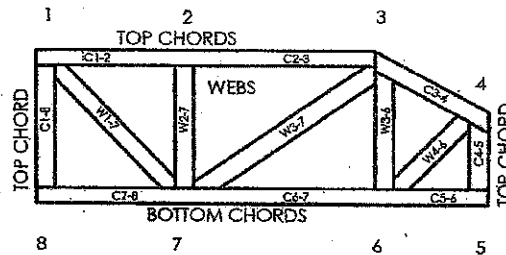
Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur.

Industry Standards:

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

Numbering System

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



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

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

PRODUCT CODE APPROVALS

CCMC Reports:

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

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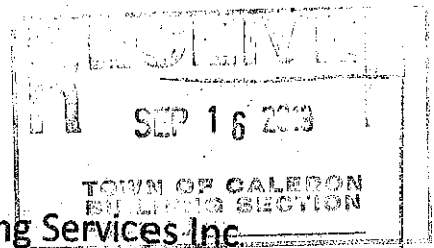
MiTek
POWER TO PERFORM.™

MiTek Engineering Reference Sheet: MI-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.



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 MH7473C REV.10-08 attached for information on symbols, numbering system and General Safety notes.

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