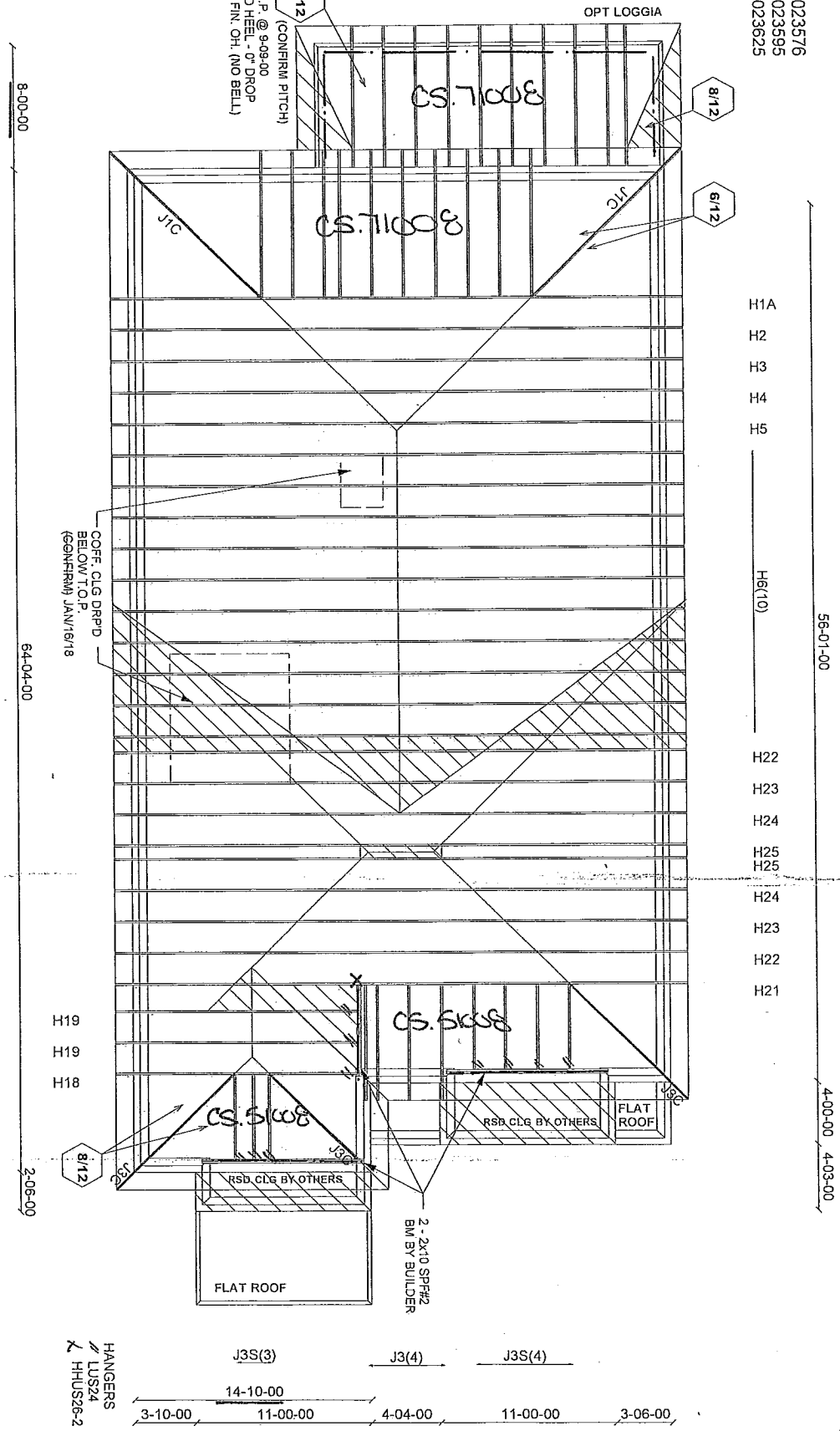


ENGINEERING
 A. 18023575 - A. 18023576
 A. 18023591 - A. 18023595
 A. 18023619 - A. 18023625
 A. 18082085

1ST FIN. OH.
 RSD. HEEL - 0" DROP
 (2" x 6" FASCIA) - FM
 ASPHALT SHINGLES
 2" X 6" BRG/BRICK



ALL CONVENTIONAL FRAMING TO CONFORM WITH PART 9 O.B.C. LATEST EDITION. ROOF RAFTERS THAT CROSS OVER TRUSSES TO BE 2X4 SPP #2 @ 24" O.C WITH A VERT. POST TO THE TRUSS UNDERNEATH AT EACH CROSS POINT. VERT. POSTS LONGER THAN 6' TO HAVE LATERAL BRACING SO THAT THE DISTANCE BETWEEN END POINTS & BETWEEN ROWS OF BRACING DOES NOT EXCEED 6'

FORESTOREST

Mark V. 8.2.0



Job Track: 45147
 out ID: 301044
 Plan Log: 99352

Builder / Location:
GOLD PARK HOMES / VAUGHAN
 Project: **PINE VALLEY**
 Date: 8/14/2018 Designer: AMANDA

SE DRAWINGS CONSTITUTE THE PROPERTY OF ALPA ROOF TRUSSES INC. SHALL NOT BE REPR. DISTRIBUTED IN ANY MANNER OR UTILIZED FOR ANY PURPOSE OTHER THAN THE MANUFACTURE OF ALPA ROOF TRUSSES INC AND WILL BE RETRACTED BY ALPA ROOF TRUSSES INC IF UTILIZED FOR ANY OTHER PURPOSE.

Model / Elevation:
4203 REV1 / C
STD OR OPT 2ND FLE (SEED) OR OPT LOGGIA
 CONVENTIONAL FRAMING BY OTHERS
 D. PUBLISHED, OR
 LUS24
 HHUS26-2



Job Track: 45147
 Plan Log: 99353
 Job ID: 301045

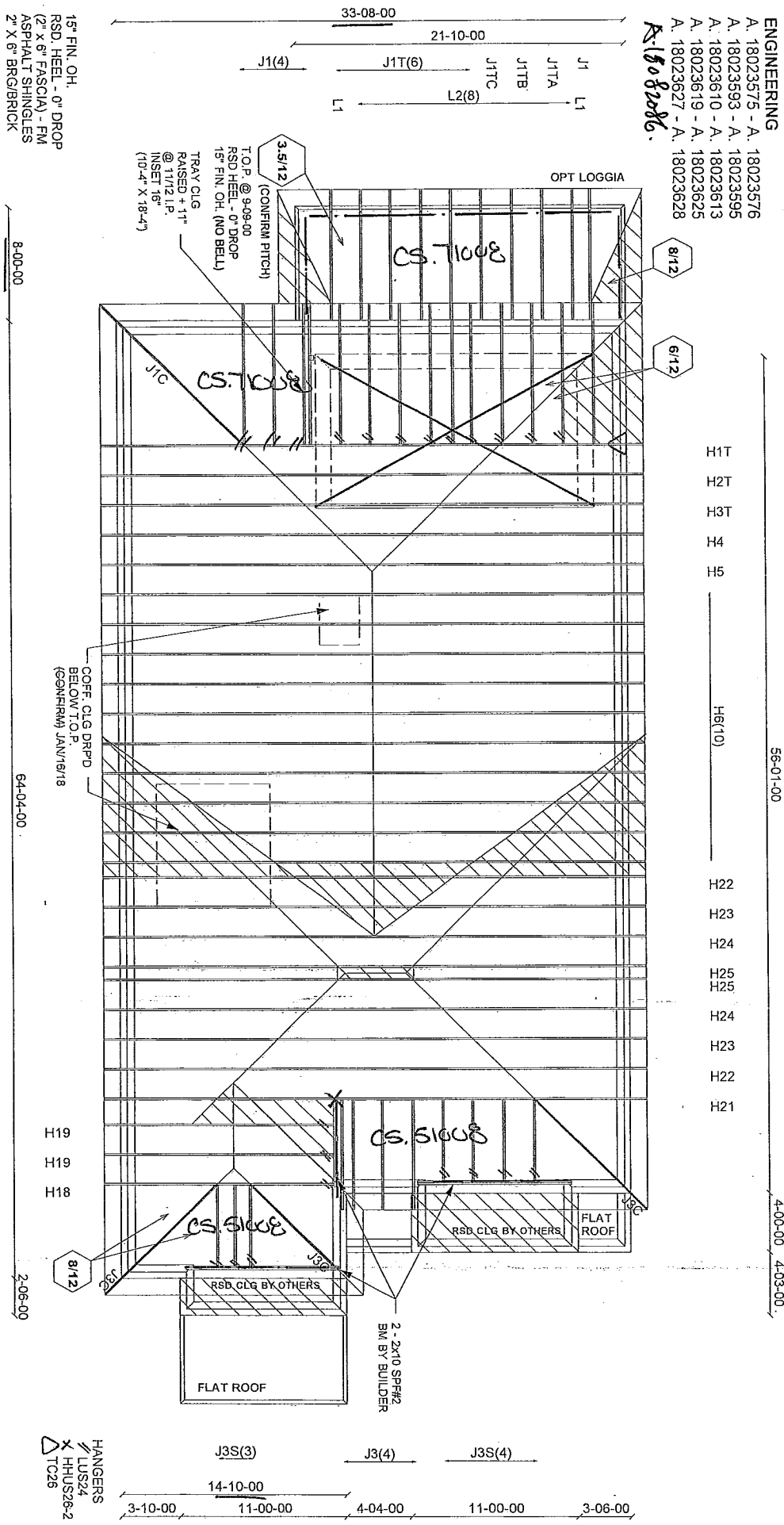
Builder / Location:
GOLD PARK HOMES / VAUGHAN
 Project: **PINE VALLEY**
 Date: 8/14/2018 Designer: AMANDA

Model / Elevation:
4203 REV2 / C OPT TRAY OPT LOGGIA
 ALL DRAWINGS CONSTITUTE THE PROPERTY OF ALPA ROOF TRUSSES INC. SHALL NOT BE REPR. DISTRIBUTED IN ANY MANNER OR UTILIZED FOR ANY PURPOSE OTHER THAN THE MANUFACTURE OF TRUSSES BY ALPA ROOF TRUSSES INC AND WILL BE RETRACTED BY ALPA ROOF TRUSSES INC IF UTILIZED FOR ANY OTHER PURPOSE.

ALL CONVENTIONAL FRAMING TO CONFORM WITH PART 9 O.B.C. LATEST EDITION. ROOF RAFTERS THAT CROSS OVER TRUSSES TO BE 2X4 SPF #2 @ 24" O.C WITH A VERT. POST TO THE TRUSS UNDERNEATH AT EACH CROSS POINT. VERT. POSTS LONGER THAN 6' TO HAVE LATERAL BRACING SO THAT THE DISTANCE BETWEEN END POINTS & BETWEEN ROWS OF BRACING DOES NOT EXCEED 6'

FORESTCREST

Mark V. B.2.0



ENGINEERING
 A. 18023575 - A. 18023576
 A. 18023593 - A. 18023595
 A. 18023610 - A. 18023613
 A. 18023619 - A. 18023625
 A. 18023627 - A. 18023628
R. 16082086

H1T
 H2T
 H3T
 H4
 H5
 H6(10)
 H22
 H23
 H24
 H25
 H25
 H24
 H23
 H22
 H21

56-01-00
 4-00-00 4-03-00

33-08-00
 21-10-00
 J1(4)
 J1T(6)
 J1TC
 J1TB
 J1TA
 L1
 L2(8)

3.5/12 (CONFIRM PITCH)
 T.O.P. @ 3-09-00
 RSD. HEEL - 0" DROP
 15" FIN. OH. (NO BELL)
 TRAY CLG
 RAISED + 1"
 @ 11/12 I.P.
 INSET 16"
 (10'-4" X 18'-4")

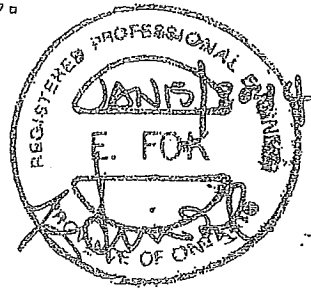
COFF. CLG DRPD
 BELOW T.O.P.
 (CONFIRM) JAN/18/18

HANGERS
 LUS24
 X HHUS26x2
 TC26

J3S(3) J3(4) J3S(4)
 14-10-00
 3-10-00 11-00-00 4-04-00 11-00-00 3-06-00

Stracon Engineering Inc.

69 Graydon Crescent
Richmond Hill, Ontario
L4B 3W7
(905) 832-2250 Fax (905) 832-0286



RESPONSIBILITIES

1. Stracon Engineering 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 with jurisdictions.
3. All dimensions are to be verified by owner contractor, architect or other authority before manufacture.
4. Stracon Engineering 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 Stracon Engineering Inc. drawings is specified for the truss as a component only and forms an integral part of the truss design.
5. It is the truss manufacturer's responsibility to ensure that trusses are manufactured in conformance with Stracon Engineering Inc. specifications outlined below.

SPECIFICATIONS

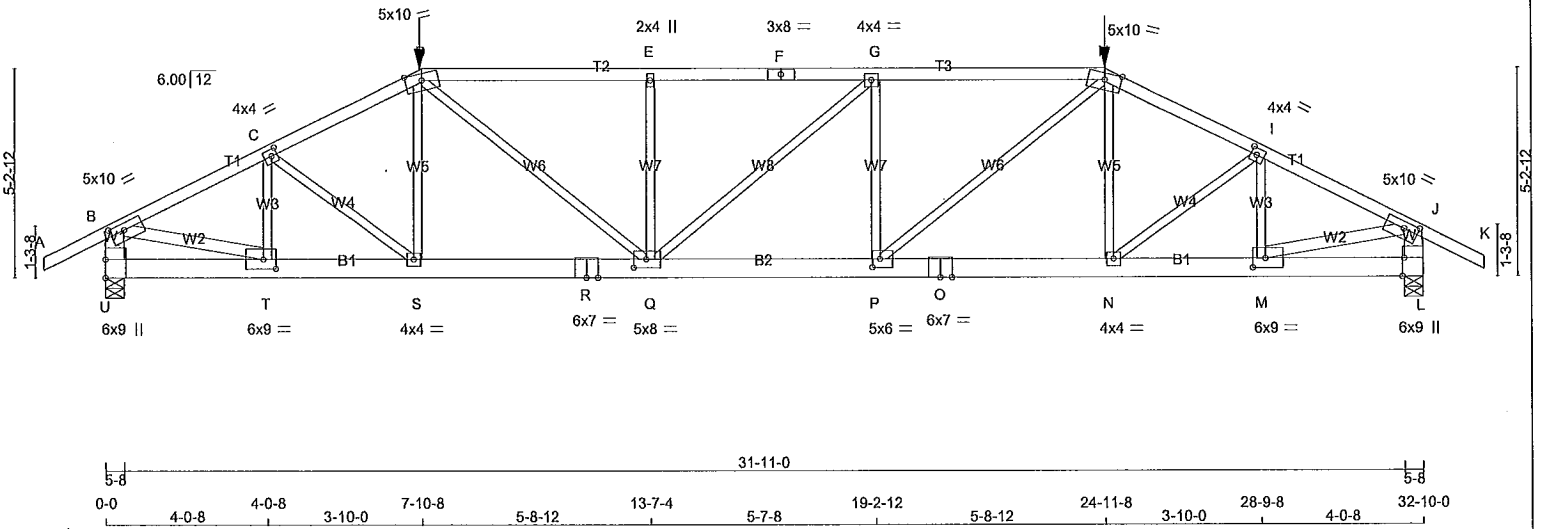
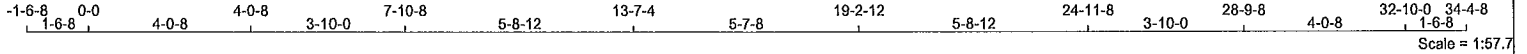
1. Trusses designed by Stracon Engineering Inc. conforms to the relevant section of the Ontario Building Code of Canada (Part 9 or Part 4) or to the Canadian code for farm buildings, whichever applies to the building type indicated on the drawings as well as to the procedures established by the truss plate institute of Canada. Unit stresses used are as per CSA-086-09.
2. Lumber is to be the sizes and grade specified.
3. Moisture content of lumber is not to exceed 19% in service unless otherwise specified.
4. Lumber not to be treated with chemicals unless otherwise specified.
5. Plates shall be applied to both faces of the truss at each joint and shall be positioned as specified.
6. The top chord is assumed to be continuously laterally braced by the roof sheathing or purlins at intervals not exceeding 12.5 times in thickness.
7. Where not rigid ceiling is attached directly to the bottom chord, laterally brace the chords at intervals not exceeding 3M (10') o.c.

January 15, 2014

JOB NAME 301044	TRUSS NAME H1A	QUANTITY 1	PLY 1	JOB DESC. TRUSS DESC.	DRWG NO.
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Alpa Roof Truss, Maple

Version 8.210 S Jun 13 2018 MiTek Industries, Inc. Wed Aug 15 16:40:19 2018 Page 1
ID:84gOFYEM8s1JmDO6_uSGRyQWjP-UWe9GxHJY2nsZXWdP8e2nfYO9IzFdn9HM384pMynZ9A



TOTAL WEIGHT = 157 lb

LUMBER
N. L. G. A. RULES

CHORDS	SIZE	LUMBER	DESCR.
A - D	2x4	DRY No.2	SPF
D - F	2x4	DRY 2100F 1.8E	SPF
F - H	2x4	DRY 2100F 1.8E	SPF
H - K	2x4	DRY No.2	SPF
U - B	2x6	DRY No.2	SPF
L - J	2x6	DRY No.2	SPF
U - R	2x6	DRY 1650F 1.5E	SPF
R - O	2x6	DRY 1650F 1.5E	SPF
O - L	2x6	DRY 1650F 1.5E	SPF
ALL WEBS	2x3	DRY No.2	SPF
EXCEPT			
B - T	2x4	DRY No.2	SPF
M - J	2x4	DRY No.2	SPF

DRY: SEASONED LUMBER.

PLATES (table ts in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMVW-t	MT20	5.0	10.0	2.00	4.25
C	TMWW-t	MT20	4.0	4.0	2.00	1.75
D	TTWW-m	MT20	5.0	10.0	Edge	
E	TMW+w	MT20	2.0	4.0		
F	TS-t	MT20	3.0	8.0		
G	TMWW-t	MT20	4.0	4.0		
H	TTWW-m	MT20	5.0	10.0	Edge	
I	TMWW-t	MT20	4.0	4.0	2.00	1.75
J	TMVW-t	MT20	5.0	10.0	2.00	4.25
L	BMV1+t	MT20	6.0	9.0	Edge	0.50
M	BMWW-t	MT20	6.0	9.0	2.75	3.75
N	BMWW-t	MT20	4.0	4.0		
O	BS-t	MT20	6.0	7.0		
P	BMWW-t	MT20	5.0	6.0	2.50	2.25
Q	BMWW-t	MT20	5.0	8.0	2.50	3.75
R	BS-t	MT20	6.0	7.0		
S	BMWW-t	MT20	4.0	4.0		
T	BMWW-t	MT20	6.0	9.0	2.75	3.75
U	BMV1+t	MT20	6.0	9.0	5.50	

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	FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG	REQRD BRG
	VERT	HORZ	DOWN	HORZ		
U	3794	0	3794	0	5-8	5-8
L	3794	0	3794	0	5-8	5-8

UNFACTORED REACTIONS

JT	COMBINED	MAX./MIN. COMPONENT REACTIONS					
		1ST LCASE	SNOW	LIVE	PERM.LIVE	WIND	DEAD
U	2707	1639 / 0	0 / 0	0 / 0	0 / 0	1068 / 0	0 / 0
L	2707	1639 / 0	0 / 0	0 / 0	0 / 0	1068 / 0	0 / 0

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) U, L
BEARING SIZE FACTOR = 1.15 AT JNT(S) U, L (BASED ON SUPPORT DEPTH = 1-8)

BRACING
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 2.32 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

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

LOADING
TOTAL LOAD CASES: (4)

MEMB.	CHORDS			WEBS		
	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. UNBRACED CSI (LC)	MEMB. FORCE (LBS)	MAX. FACTORED UNBRACED CSI (LC)	
FR-TO		FROM TO	LENGTH	FR-TO		
A-B	0 / 28	-78.0 -78.0	0.16 (1)	10.00	T-C -1024 / 0	0.20 (1)
B-C	-5256 / 0	-78.0 -78.0	0.63 (1)	2.57	C-S 0 / 645	0.16 (1)
C-D	-5853 / 0	-78.0 -78.0	0.70 (1)	2.32	S-D 0 / 226	0.09 (4)
D-E	-6872 / 0	-115.7 -115.7	0.77 (1)	2.82	D-Q 0 / 2169	0.54 (1)
E-F	-6872 / 0	-115.7 -115.7	0.77 (1)	2.81	Q-E -703 / 0	0.28 (1)
F-G	-6872 / 0	-115.7 -115.7	0.77 (1)	2.81	Q-G -12 / 0	0.01 (1)
G-H	-6881 / 0	-115.7 -115.7	0.79 (1)	2.80	P-G -700 / 0	0.27 (1)
H-I	-5850 / 0	-78.0 -78.0	0.70 (1)	2.32	P-H 0 / 2184	0.54 (1)
I-J	-5256 / 0	-78.0 -78.0	0.63 (1)	2.57	N-H 0 / 223	0.09 (4)
J-K	0 / 28	-78.0 -78.0	0.16 (1)	10.00	N-I 0 / 641	0.16 (1)
U-B	-3661 / 0	0.0 0.0	0.26 (1)	5.54	M-I -1021 / 0	0.20 (1)
L-J	-3661 / 0	0.0 0.0	0.26 (1)	5.54	B-T 0 / 4826	0.85 (1)
					M-J 0 / 4827	0.85 (1)
U-T	0 / 0	-45.7 -45.7	0.10 (1)	10.00		
T-S	0 / 4711	-45.7 -45.7	0.51 (1)	10.00		
S-R	0 / 5216	-122.4 -122.4	0.57 (1)	10.00		
R-Q	0 / 5216	-122.4 -122.4	0.57 (1)	10.00		
Q-P	0 / 6881	-122.4 -122.4	0.69 (1)	10.00		
P-O	0 / 5214	-122.4 -122.4	0.56 (1)	10.00		
O-N	0 / 5214	-122.4 -122.4	0.56 (1)	10.00		
N-M	0 / 4712	-45.7 -45.7	0.51 (1)	10.00		
M-L	0 / 0	-45.7 -45.7	0.10 (1)	10.00		

FACTORED CONCENTRATED LOADS (LBS)

JT	LOC.	LC1	MAX-	MAX+	FACE	DIR.	TYPE
D	7-10-8	-652	-652	--	FRONT	VERT	TOTAL
H	24-11-8	-652	-652	--	FRONT	VERT	TOTAL

DESIGN CRITERIA

SPECIFIED LOADS:
TOP CH. LL = 21.0 PSF
DL = 6.0 PSF
BOT CH. LL = 0.0 PSF
DL = 7.4 PSF
TOTAL LOAD = 34.4 PSF

SPACING = 24.0 IN. C/C

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

GIRDER TYPE: CPrimeHip
SIDE SETBACK = 7-10-8
END SETBACK = 7-10-8
END WALL WIDTH = 0-0
CORNER FRAMING TYPE: CONVENTIONAL
END JACK TYPE: PARTIAL
APPLIED TO FRONT SIDE
- ADDTL. LOADS BASED ON 55 % OF GSL.

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

THIS DESIGN COMPLIES WITH:
- PART 9 OF OBC 2012, OBC 2018
- CSA 088-09, CSA 086-14
- TPIC 2011, TPIC 2014

(55 % OF 23.0 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 21.0 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL)= L/360 (1.09")
CALCULATED VERT. DEFL.(LL)= L/999 (0.27")
ALLOWABLE DEFL.(TL)= L/360 (1.09")
CALCULATED VERT. DEFL.(TL)= L/742 (0.53")

CSI: TC=0.79/1.00 (G-H:1), BC=0.69/1.00 (P-Q:1), WB=0.85/1.00 (J-M:1), SSI=0.34/1.00 (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

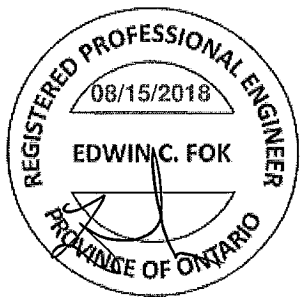
PLATE	GRIP(DRY)	SHEAR	SECTION
(PSI)	(PL)	(PL)	(PL)
MT20	618	354	1667 788 1987 1656

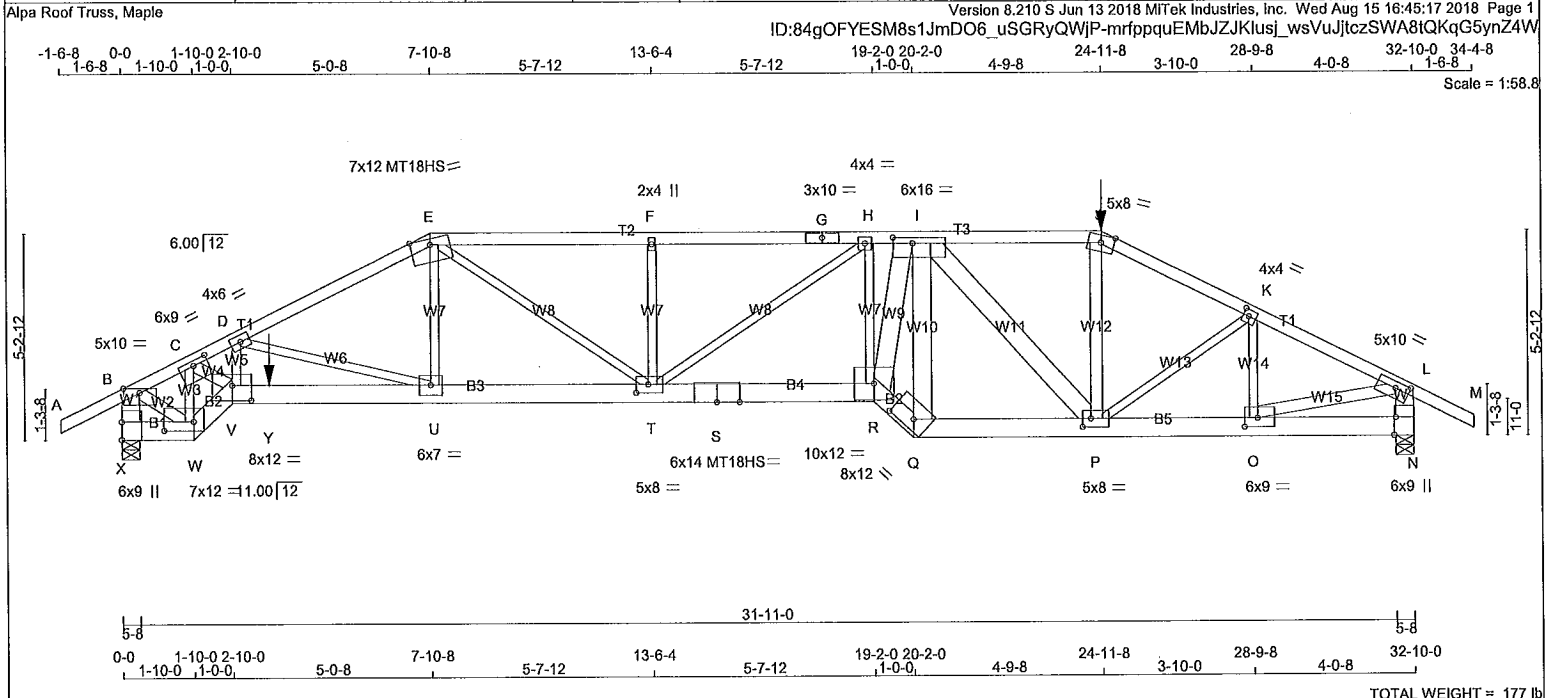
PLATE PLACEMENT TOL. = 0.250 Inches

PLATE ROTATION TOL. = 6.0 Deg.

JSI GRIP= 0.90 (F) (INPUT = 0.90)
JSI METAL= 0.86 (R) (INPUT = 1.00)

Note: Lateral brace(s) shown shall be 2x4 SPF#2.





LUMBER
 N. L. G. A. RULES

CHORDS	SIZE	LUMBER	DESCR.
A - E	2x4	DRY 2100F 1.8E	SPF
E - G	2x4	DRY 2100F 1.8E	SPF
G - J	2x4	DRY 2100F 1.8E	SPF
J - M	2x4	DRY 2100F 1.8E	SPF
X - B	2x6	DRY No.2	SPF
N - L	2x6	DRY No.2	SPF
X - W	2x6	DRY No.2	SPF
W - V	2x6	DRY 1650F 1.5E	SPF
V - S	2x6	DRY 1650F 1.5E	SPF
S - R	2x6	DRY 1650F 1.5E	SPF
R - Q	2x6	DRY 1650F 1.5E	SPF
Q - N	2x6	DRY 1650F 1.5E	SPF
ALL WEBS EXCEPT	2x3	DRY No.2	SPF
C - V	2x4	DRY No.2	SPF
R - I	2x6	DRY No.2	SPF
Q - I	2x6	DRY No.2	SPF
I - P	2x6	DRY No.2	SPF
P - J	2x4	DRY No.2	SPF
B - W	2x4	DRY No.2	SPF
O - L	2x4	DRY No.2	SPF

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT TYPE	PLATES	W	LEN	Y	X
B	TMVW-p	MT20	5.0	10.0	Edge
C	TMVW-t	MT20	6.0	9.0	1.50 4.50
D	TMVW-t	MT20	4.0	6.0	
E	TTVW-m	MT18HS	7.0	12.0	Edge
F	TMVW-w	MT20	2.0	4.0	
G	TS-t	MT20	3.0	10.0	
H	TMVW-t	MT20	4.0	4.0	
I	TMVW-t	MT20	6.0	16.0	1.75 6.00
J	TTVW-m	MT20	5.0	8.0	Edge
K	TMVW-t	MT20	4.0	4.0	2.00 1.75
L	TMVW-t	MT20	5.0	10.0	2.00 4.25
N	BMV1-t	MT20	6.0	9.0	Edge 0.50
O	BMVW-t	MT20	6.0	9.0	2.75 4.00
P	BMVW-t	MT20	5.0	8.0	2.50 2.50

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	DOWN	IN-SX	IN-SX
X	4080	0	5-8	5-8
N	3762	0	5-8	5-8

ALLOW FOR 0.3" OF HORIZONTAL MOVEMENT DUE TO TOTAL LOAD

UNFACTORED REACTIONS

JT	1ST LCASE	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
X	2905	1793 / 0	0 / 0	0 / 0	0 / 0	1112 / 0	0 / 0
N	2686	1618 / 0	0 / 0	0 / 0	0 / 0	1068 / 0	0 / 0

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) X, N
 BEARING SIZE FACTOR = 1.15 AT JNT(S) X, N (BASED ON SUPPORT DEPTH = 1-8)

BRACING
 TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 2.53 FT.
 MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

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

LOADING
 TOTAL LOAD CASES: (4)

MEMB.	C H O R D S				W E B S			
	MAX. FORCE (LBS)	FACTORED VERT. (PLF)	FACTORED HORIZ. (LC1)	MAX. UNBRAC (LC)	MEMB. FORCE (LBS)	MAX. FACTORED (LBS)	MAX. UNBRAC (LC)	MAX. FACTORED (LC)
FR-TO		FROM	TO	LENGTH	FR-TO			
A-B	0 / 28	-78.0	-78.0	0.10 (1)	10.00	W-C	-4994 / 0	0.81 (1)
B-C	-4346 / 0	-78.0	-78.0	0.28 (1)	3.90	C-V	0 / 5442	0.96 (1)
C-D	-8749 / 0	-78.0	-78.0	0.51 (1)	2.53	V-D	0 / 729	0.18 (1)
D-E	-7127 / 0	-78.0	-78.0	0.60 (1)	2.94	D-U	-1552 / 0	0.74 (1)
E-F	-8334 / 0	-78.0	-78.0	0.80 (1)	2.58	U-E	0 / 1479	0.37 (1)
F-G	-8334 / 0	-78.0	-78.0	0.79 (1)	2.58	E-T	0 / 2350	0.58 (1)
G-H	-8334 / 0	-78.0	-78.0	0.79 (1)	2.58	T-F	-499 / 0	0.14 (1)
H-I	-8357 / 0	-115.7	-115.7	0.52 (1)	2.59	T-H	-32 / 9	0.03 (1)
I-J	-5197 / 0	-115.7	-115.7	0.40 (1)	3.53	R-H	-102 / 0	0.03 (1)
J-K	-5773 / 0	-78.0	-78.0	0.28 (1)	3.49	R-I	0 / 6744	0.88 (1)
K-L	-5227 / 0	-78.0	-78.0	0.27 (1)	3.66	Q-I	-5429 / 0	0.97 (1)
L-M	0 / 28	-78.0	-78.0	0.10 (1)	10.00	I-P	-2065 / 0	0.69 (1)
X-B	-4063 / 0	0.0	0.0	0.29 (1)	5.28	P-J	0 / 1585	0.28 (1)
N-L	-3644 / 0	0.0	0.0	0.26 (1)	5.25	P-K	0 / 577	0.14 (1)
X-W	0 / 0	-18.5	-18.5	0.01 (4)	10.00	O-K	-940 / 0	0.19 (1)
W-V	0 / 4770	-18.5	-18.5	0.39 (1)	10.00	B-W	0 / 4216	0.75 (1)
V-Y	0 / 7857	-18.5	-18.5	0.95 (1)	10.00	O-L	0 / 4799	0.85 (1)
Y-U	0 / 7857	-160.2	-160.2	0.95 (1)	10.00			
U-T	0 / 6404	-160.2	-160.2	0.81 (1)	10.00			
T-S	0 / 8362	-160.2	-160.2	0.91 (1)	10.00			
S-R	0 / 8362	-160.2	-160.2	0.91 (1)	10.00			
R-Q	0 / 8585	-122.4	-122.4	0.71 (1)	10.00			
Q-P	0 / 6587	-122.4	-122.4	0.68 (1)	10.00			
P-O	0 / 4684	-45.7	-45.7	0.44 (1)	10.00			
O-N	0 / 0	-45.7	-45.7	0.08 (4)	10.00			

FACTORED CONCENTRATED LOADS (LBS)

JT	LOC.	LC1	MAX-	MAX+	FACE	DIR.	TYPE
J	24-11-8	-652	-652	---	FRONT	VERT	TOTAL
Y	3-9-4	-562	-562	---	FRONT	VERT	TOTAL

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 = 21.0 PSF
 DL = 6.0 PSF
 BOT CH. LL = 0.0 PSF
 DL = 7.4 PSF
 TOTAL LOAD = 34.4 PSF

SPACING = 24.0 IN./C

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

GIRDER TYPE: CStdGirder
 START DISTANCE = 7-10-8
 START SPAN CARRIED = 7-10-8
 END DISTANCE = 19-2-0
 END SPAN CARRIED = 7-10-8
 END WALL WIDTH = 0-0
 APPLIED TO FRONT SIDE OF BOTTOM CHORD.
 - ADDTL LOADS BASED ON 55 % OF GSL.

GIRDER TYPE: CPrimeHip
 SIDE SETBACK = 7-10-8
 END SETBACK = 7-10-8
 END WALL WIDTH = 0-0
 CORNER FRAMING TYPE: CONVENTIONAL
 END JACK TYPE: PARTIAL
 APPLIED TO FRONT SIDE
 - ADDTL LOADS BASED ON 55 % OF GSL.
 LOADS APPLIED TO FIRST 13-8-0 OF SPAN
 MEASURED FROM THE RIGHT.

*** 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

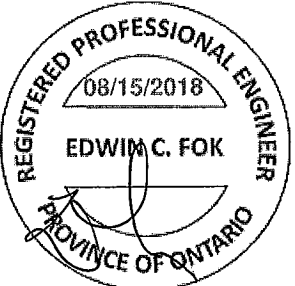
THIS DESIGN COMPLIES WITH:
 - PART 9 OF OBC 2012, OBC 2018
 - CSA 086-09, CSA 086-14
 - TPIC 2011, TPIC 2014

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

(55 % OF 23.0 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 21.0 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = L/360 (1.09")
 CALCULATED VERT. DEFL.(LL) = L/999 (0.36")
 ALLOWABLE DEFL.(TL) = L/360 (1.09")
 CALCULATED VERT. DEFL.(TL) = L/521 (0.76")

CSI: TC=0.80/1.00 (E-F:1), BC=0.95/1.00 (U-V:1), WB=0.97/1.00 (I-Q:1), SSI=0.43/1.00 (U-V:1)



JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
301045	H1T	1	1	TRUSS DESC.	

Alpa Roof Truss, Maple

Version 8.210 S Jun 13 2018 MITek Industries, Inc. Wed Aug 15 16:45:17 2018 Page 2
 ID:84gOFYESM8s1JmDO6 uSGRyQWjP-mrfppquEMbJZJKlusj wsVuJjtczSWA8tQKqG5ynZ4W

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
Q	BBW-h	MT20	8.0	12.0	3.00	7.25
R	BBWW-l	MT20	10.0	12.0		
S	BS-t	MT18HS	6.0	14.0		
T	BMWWW-t	MT20	5.0	8.0	2.50	3.75
U	BMWW-t	MT20	6.0	7.0		
V	BBWW-l	MT20	8.0	12.0	4.50	5.75
W	BBWW-l	MT20	7.0	12.0	2.75	9.00
X	BMV1-t	MT20	6.0	9.0	5.50	

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

HANGERS NOTES

- SPECIAL HANGER(S) OR CONNECTION(S) REQUIRED TO SUPPORT CONCENTRATED LOAD(S) 652.4 lbs FACTORED DOWN AT 24-11-8 ON TOP CHORD, AND 562.4 lbs FACTORED DOWN AT 3-9-4 ON BOTTOM CHORD. DESIGN FOR UNSPECIFIED CONNECTION(S) IS DELEGATED TO THE BUILDING DESIGNER.

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) (PSI)	SHEAR (PLI)	SECTION (PLI)
	MAX MIN	MAX MIN	MAX MIN
MT18HS	511 354	2455 1382	3004 2010
MT20	618 354	1667 788	1887 1656

PLATE PLACEMENT TOL. = 0.250 inches

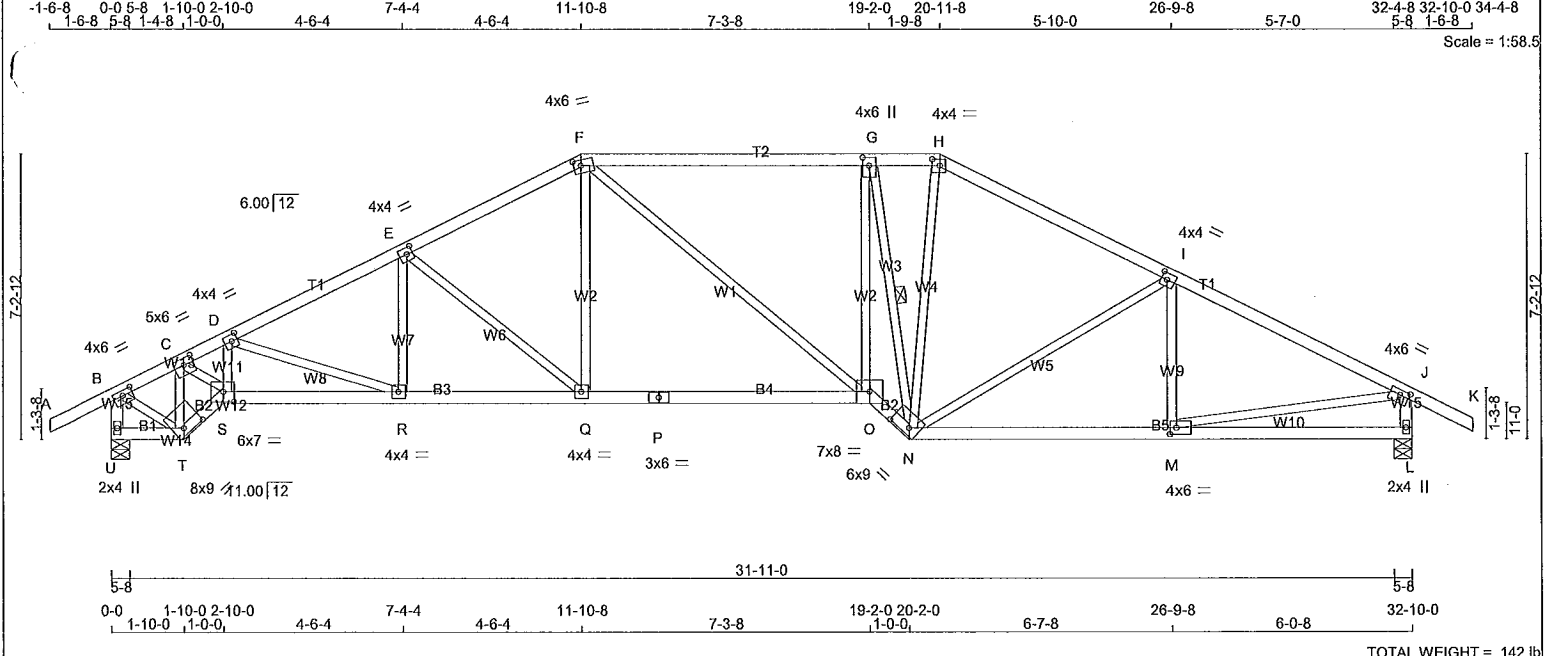
PLATE ROTATION TOL. = 5.0 Deg.

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

Note: Lateral brace(s) shown shall be 2x4 SPF#2.



A-18082086(2)



TOTAL WEIGHT = 142 lb

LUMBER
N. L. G. A. RULES

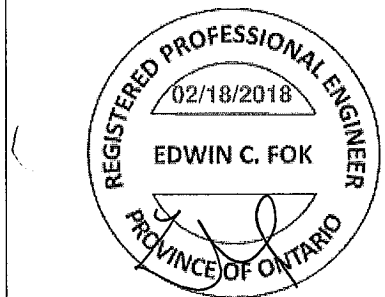
CHORDS	SIZE	LUMBER	DESCR.
A - F	2x4	DRY	No.2 SPF
F - H	2x4	DRY	No.2 SPF
H - K	2x4	DRY	No.2 SPF
U - B	2x4	DRY	No.2 SPF
L - J	2x4	DRY	No.2 SPF
U - T	2x4	DRY	No.2 SPF
T - S	2x4	DRY	No.2 SPF
S - P	2x4	DRY	No.2 SPF
P - O	2x4	DRY	No.2 SPF
V	2x4	DRY	No.2 SPF
W	2x4	DRY	No.2 SPF
ALL WEBS EXCEPT	2x3	DRY	No.2 SPF

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMVW-t	MT20	4.0	6.0	1.50	3.00
C	TMVW-t	MT20	5.0	6.0	2.00	3.00
D, E, I						
D	TMVW-t	MT20	4.0	4.0	2.00	1.75
F	TTVW-m	MT20	4.0	6.0	1.75	2.25
G	TMVW-t	MT20	4.0	6.0	2.50	2.00
H	TTVW-t	MT20	4.0	4.0	2.00	2.25
J	TMVW-t	MT20	4.0	6.0	1.50	2.75
L	BMV1+p	MT20	2.0	4.0		
M	BMVW-t	MT20	4.0	6.0	2.00	1.75
N	BBVW-h	MT20	6.0	9.0	2.00	6.00
O	BBVW-h	MT20	7.0	8.0		
P	BS-t	MT20	3.0	6.0		
Q	BMVW-t	MT20	4.0	4.0		
R	BMVW-t	MT20	4.0	4.0		
S	BBVW-h	MT20	6.0	7.0	3.00	3.25
T	BBVW-h	MT20	8.0	9.0	2.00	6.00
U	BMV1+p	MT20	2.0	4.0		

NOTE: Lateral brace(s) shown shall be 1x4 for Part 9 design as per OBC 9.23.13.11, and no less than 2x4 for Part 4 design



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

BEARINGS

JT	FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG IN-SX	REQRD BRG IN-SX
	VERT	HORZ	DOWN	HORZ		
U	1712	0	1712	0	5-8	2-9
L	1706	0	1706	0	5-8	2-8

UNFACTORED REACTIONS

JT	COMBINED	MAX./MIN. COMPONENT REACTIONS				WIND	DEAD	SOIL
		1ST LCASE	SNOW	LIVE	PERM.LIVE			
U	1218	758 / 0	0 / 0	0 / 0	0 / 0	460 / 0	0 / 0	
L	1214	755 / 0	0 / 0	0 / 0	0 / 0	459 / 0	0 / 0	

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

BRACING
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.88 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

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

1 LATERAL BRACE(S) AT 1/2 LENGTH OF G-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				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. UNBRACED LENGTH (L)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. UNBRACED LENGTH (L)	MEMB.
A-B	0 / 28	-78.0	-78.0 0.14 (1)	10.00	T-C	-1854 / 0	0.28 (1)
B-C	-1579 / 0	-78.0	-78.0 0.13 (1)	5.14	C-S	0 / 1943	0.44 (1)
C-D	-3055 / 0	-78.0	-78.0 0.17 (1)	3.88	S-D	-5 / 48	0.02 (4)
D-E	-2716 / 0	-78.0	-78.0 0.28 (1)	4.00	D-R	-349 / 0	0.13 (1)
E-F	-2245 / 0	-78.0	-78.0 0.25 (1)	4.36	R-E	0 / 170	0.04 (4)
F-G	-2158 / 0	-78.0	-78.0 0.62 (1)	3.97	E-Q	-578 / 0	0.35 (1)
G-H	-1798 / 0	-78.0	-78.0 0.42 (1)	4.50	Q-F	0 / 491	0.11 (1)
H-I	-1932 / 0	-78.0	-78.0 0.41 (1)	4.44	F-O	0 / 204	0.05 (1)
I-J	-2261 / 0	-78.0	-78.0 0.45 (1)	4.13	O-G	0 / 1896	0.43 (1)
J-K	0 / 28	-78.0	-78.0 0.14 (1)	10.00	G-N	-2528 / 0	0.83 (1)
U-B	-1695 / 0	0.0	0.0 0.17 (1)	6.38	N-H	0 / 830	0.19 (1)
L-J	-1662 / 0	0.0	0.0 0.17 (1)	6.43	H-I	-395 / 0	0.47 (1)
U-T	0 / 0	-18.5	-18.5 0.02 (4)	10.00	M-I	-201 / 29	0.06 (1)
T-S	0 / 1718	-18.5	-18.5 0.28 (1)	10.00	B-T	0 / 1548	0.35 (1)
S-R	0 / 2770	-18.5	-18.5 0.50 (1)	10.00	M-J	0 / 2070	0.47 (1)
R-Q	0 / 2441	-18.5	-18.5 0.50 (1)	10.00			
Q-P	0 / 2000	-18.5	-18.5 0.43 (1)	10.00			
P-O	0 / 2000	-18.5	-18.5 0.43 (1)	10.00			
O-N	0 / 2891	-18.5	-18.5 0.47 (1)	10.00			
N-M	0 / 2043	-18.5	-18.5 0.42 (1)	10.00			
M-L	0 / 0	-18.5	-18.5 0.20 (4)	10.00			

DESIGN CRITERIA

SPECIFIED LOADS:
TOP CH. LL = 21.0 PSF
DL = 6.0 PSF
BOT CH. LL = 0.0 PSF
DL = 7.4 PSF
TOTAL LOAD = 34.4 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 OBC 2012, OBC 2018
- CSA 086-09, CSA 086-14
- TPIC 2011, TPIC 2014

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

(55% OF 23.0 P.S.F. G.S.I.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 21.0 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL)= L/360 (1.09")
CALCULATED VERT. DEFL.(LL) = L/999 (0.17")
ALLOWABLE DEFL.(TL)= L/360 (1.09")
CALCULATED VERT. DEFL.(TL) = L/999 (0.38")

CSI=TC=0.62/1.00 (F-G:1), BC=0.50/1.00 (R-S:1), WB=0.83/1.00 (G-N:1), SSI=0.26/1.00 (F-G:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

NAIL VALUES

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

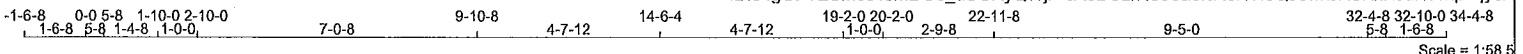
PLATE PLACEMENT TOL. = 0.250 Inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.89 (M) (INPUT = 0.90)
JSI METAL= 0.62 (P) (INPUT = 1.00)

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
292612	H2T	1	1	TRUSS DESC.	

Alpa Roof Truss, Maple Version 8.200 S Jan 6 2018 MiTek Industries, Inc. Sun Feb 18 09:25:32 2018 Page 1
 ID:84gOFYESM8s1JmDO6_uSGRyQWJP-sA3DUzrH593aoEReHTloQ9ewzJKUznZ5dkUnqNzjyoX



Scale = 1:58.5

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

A - E	2x4	DRY	No.2	SPF
E - I	2x4	DRY	No.2	SPF
I - L	2x4	DRY	No.2	SPF
V - B	2x4	DRY	No.2	SPF
M - K	2x4	DRY	No.2	SPF
V - U	2x4	DRY	No.2	SPF
U - T	2x4	DRY	No.2	SPF
T - R	2x4	DRY	No.2	SPF
R - P	2x4	DRY	No.2	SPF
P - Q	2x4	DRY	No.2	SPF
Q - 1	2x4	DRY	No.2	SPF
1	2x4	DRY	No.2	SPF

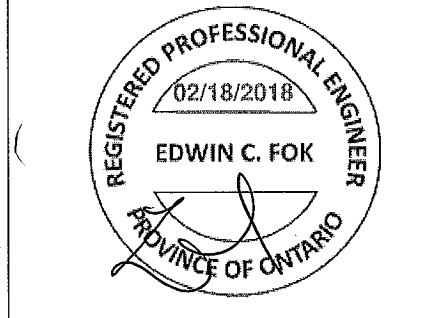
ALL WEBS 2x3 DRY No.2 SPF EXCEPT

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMVW-I	MT20	4.0	6.0	1.50	3.00
C	TMVW-I	MT20	5.0	6.0	1.75	3.00
D	TMVW-I	MT20	4.0	4.0	2.00	1.75
E	TTVW-m	MT20	5.0	6.0	2.50	2.00
F	TMVW-w	MT20	2.0	4.0		
G	TMVW-I	MT20	4.0	4.0		
H	TMVW-t	MT20	4.0	6.0	2.50	1.50
I	TTVW+m	MT20	5.0	6.0	Edge	3.50
J	TMVW-t	MT20	4.0	6.0	2.00	2.25
K	TMV-p	MT20	2.0	4.0		
M	BMVW-I	MT20	4.0	6.0	1.75	2.25
N	BMVW-I	MT20	4.0	4.0		
O	BBVW-h	MT20	6.0	7.0	2.00	4.00
P	BBVW-I	MT20	7.0	8.0	3.25	4.00
Q	BMVWV-I	MT20	5.0	6.0		
R	BS-t	MT20	3.0	6.0		
S	BMVW-I	MT20	4.0	4.0	2.00	1.75
T	BBVW-I	MT20	7.0	8.0		
U	BBVW-I	MT20	4.0	9.0	1.75	7.25
V	BMV-I+p	MT20	2.0	4.0		

NOTE: Lateral brace(s) shown shall be 1x4 for Part 9 design as per OBC 9.23.13.11, and no less than 2x4 for Part 4 design



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		
V	1712	0	1712	0	5-8	2-9
M	1706	0	1706	0	5-8	1-14

UNFACTORED REACTIONS

JT	COMBINED	MAX./MIN. COMPONENT REACTIONS				
		1ST LCASE	SNOW	LIVE	PERM.LIVE	WIND
V	1218	758 / 0	0 / 0	0 / 0	0 / 0	460 / 0
M	1214	755 / 0	0 / 0	0 / 0	0 / 0	459 / 0

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

BRACING
 TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.48 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 H-O, J-M.

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

LOADING
 TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. UNBRACED LENGTH	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. UNBRACED LENGTH	MEMB.
FR-TO				FR-TO			
A-B	0 / 28	-78.0	-78.0 0.14 (1)	10.00	U-C	-1809 / 0	0.27 (1)
B-C	-1558 / 0	-78.0	-78.0 0.16 (1)	5.13	C-T	0 / 2228	0.50 (1)
C-D	-3132 / 0	-78.0	-78.0 0.46 (1)	3.48	T-D	-204 / 20	0.03 (1)
D-E	-2460 / 0	-78.0	-78.0 0.61 (1)	3.83	D-S	-814 / 0	0.84 (1)
E-F	-2582 / 0	-78.0	-78.0 0.28 (1)	4.08	S-E	0 / 297	0.07 (4)
F-G	-2582 / 0	-78.0	-78.0 0.28 (1)	4.08	E-Q	0 / 584	0.13 (1)
G-H	-2525 / 0	-78.0	-78.0 0.11 (1)	4.28	Q-F	-427 / 0	0.18 (1)
H-I	-2087 / 0	-78.0	-78.0 0.11 (1)	4.63	F-G	0 / 78	0.02 (1)
I-J	-2107 / 0	-78.0	-78.0 0.29 (1)	4.43	P-G	-233 / 0	0.10 (1)
J-K	0 / 19	-78.0	-78.0 0.29 (1)	10.00	P-H	0 / 2224	0.50 (1)
K-L	0 / 28	-78.0	-78.0 0.14 (1)	10.00	O-H	-2346 / 0	0.60 (1)
V-B	-1695 / 0	0.0	0.0 0.17 (1)	6.38	O-I	0 / 508	0.11 (1)
M-K	-281 / 0	0.0	0.0 0.03 (1)	7.81	N-I	0 / 236	0.07 (4)
					N-J	-97 / 39	0.06 (1)
					B-U	0 / 1511	0.34 (1)
V-U	0 / 0	-18.5	-18.5 0.02 (4)	10.00	J-M	-2367 / 0	0.63 (1)
U-T	0 / 1677	-18.5	-18.5 0.27 (1)	10.00			
T-S	0 / 2974	-18.5	-18.5 0.59 (1)	10.00			
S-R	0 / 2185	-18.5	-18.5 0.46 (1)	10.00			
R-Q	0 / 2185	-18.5	-18.5 0.46 (1)	10.00			
Q-P	0 / 2530	-18.5	-18.5 0.47 (1)	10.00			
P-O	0 / 2775	-18.5	-18.5 0.45 (1)	10.00			
O-N	0 / 1869	-18.5	-18.5 0.61 (4)	10.00			
N-M	0 / 1944	-18.5	-18.5 0.60 (4)	10.00			

DESIGN CRITERIA

SPECIFIED LOADS:
 TOP CH. LL = 21.0 PSF
 DL = 6.0 PSF
 BOT CH. LL = 0.0 PSF
 DL = 7.4 PSF
 TOTAL LOAD = 34.4 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 OBC 2012, OBC 2018
 - CSA 086-09, CSA 086-14
 - TPIC 2011, TPIC 2014

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

(55 % OF 23.0 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 21.0 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL)= L/360 (1.09")
 CALCULATED VERT. DEFL.(LL) = L/999 (0.18")
 ALLOWABLE DEFL.(TL)= L/360 (1.09")
 CALCULATED VERT. DEFL.(TL) = L/999 (0.38")

CSI: TC=0.61/1.00 (D-E:1), BC=0.61/1.00 (N-O:4),
 WB=0.84/1.00 (D-S:1), SSI=0.31/1.00 (C-D:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE 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 (PLI)
MT20	618	354	1667 788 1987 1656

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

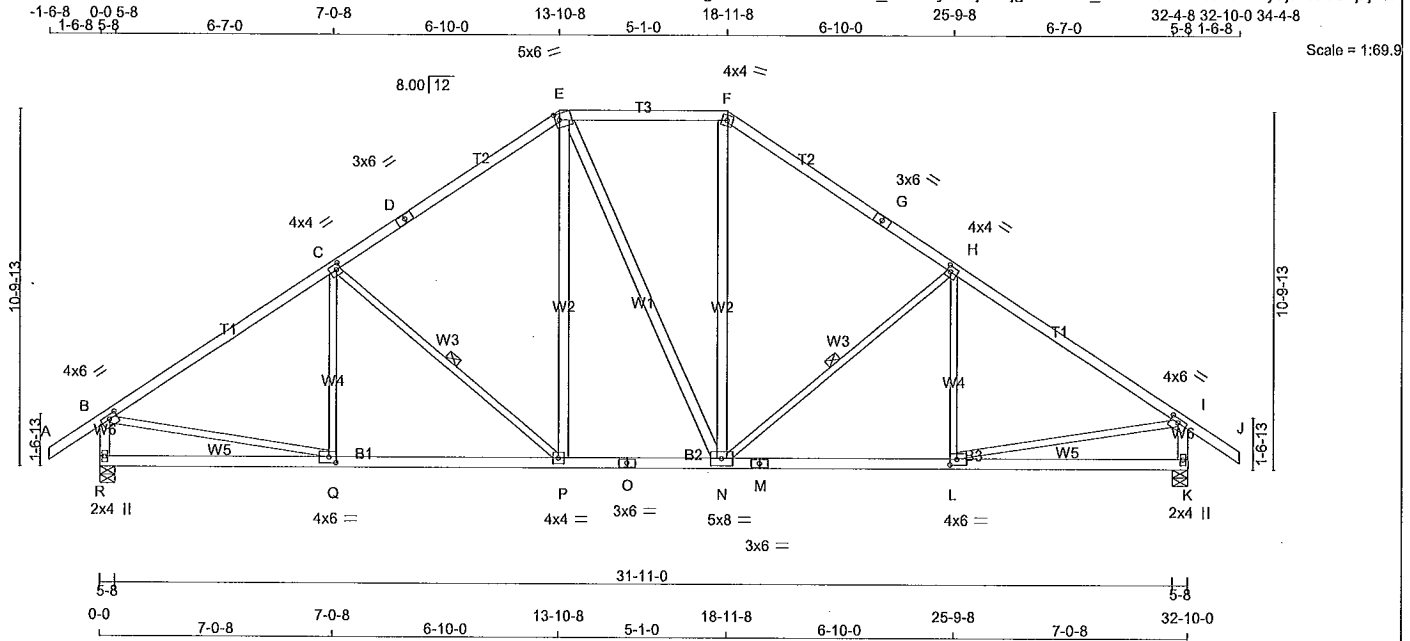
JSI GRIP= 0.90 (U) (INPUT = 0.90)
 JSI METAL= 0.63 (R) (INPUT = 1.00)

JOB NAME 291817	TRUSS NAME H25	QUANTITY 2	PLY 1	JOB DESC. TRUSS DESC.	DRWG NO.
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Alpa Roof Truss, Maple

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TOTAL WEIGHT = 2 X 159 = 318 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
E - F	2x4	DRY No.2	SPF
F - G	2x4	DRY No.2	SPF
G - J	2x4	DRY No.2	SPF
R - B	2x4	DRY No.2	SPF
K - I	2x4	DRY No.2	SPF
R - O	2x4	DRY No.2	SPF
O - M	2x4	DRY No.2	SPF
M - K	2x4	DRY No.2	SPF
BS	2x3	DRY No.2	SPF
EXCEPT			
P - E	2x4	DRY No.2	SPF
E - N	2x4	DRY No.2	SPF
N - F	2x4	DRY No.2	SPF

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT TYPE	PLATES	W	LEN	Y	X	
B	TMVW-t	MT20	4.0	6.0	1.50	3.00
C	TMVW-t	MT20	4.0	4.0	2.00	1.50
D	TS-t	MT20	3.0	6.0		
E	TTVW-m	MT20	5.0	6.0	2.25	1.50
F	TTW-m	MT20	4.0	4.0		
G	TS-t	MT20	3.0	6.0		
H	TMVW-t	MT20	4.0	4.0	2.00	1.50
I	TMVW-t	MT20	4.0	6.0	1.50	3.00
K	BMV1+p	MT20	2.0	4.0		
L	BMVW-t	MT20	4.0	6.0	2.00	2.50
M	BS-t	MT20	3.0	6.0		
N	BMVW-t	MT20	5.0	8.0		
O	BS-t	MT20	3.0	6.0		
P	BMVW-t	MT20	4.0	4.0		
Q	BMVW-t	MT20	4.0	6.0	2.00	2.50
R	BMV1+p	MT20	2.0	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 IN-SX
	VERT	HORZ	DOWN	HORZ		
R	1710	0	1710	0	5-8	2-9
K	1710	0	1710	0	5-8	2-9

UNFACTORED REACTIONS

JT	COMBINED	MAX./MIN. COMPONENT REACTIONS					
		1ST LCASE	SNOW	LIVE	PERM.LIVE	WIND	DEAD
R	1217	757 / 0	0 / 0	0 / 0	0 / 0	459 / 0	0 / 0
K	1217	757 / 0	0 / 0	0 / 0	0 / 0	459 / 0	0 / 0

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

BRACING
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.26 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-P, H-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				WEBS				
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	FACTORED LC1 MAX (LC)	MAX. UNBRACED LENGTH	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. FACTORED CSI (LC)	
FR-TO					FR-TO			
A-B	0 / 35	-78.0	-78.0	0.15 (1)	10.00	Q-C	-129 / 61	0.08 (1)
B-C	-1847 / 0	-78.0	-78.0	0.63 (1)	4.26	C-P	-473 / 0	0.28 (1)
C-D	-1489 / 0	-78.0	-78.0	0.57 (1)	4.70	P-E	0 / 409	0.07 (1)
D-E	-1489 / 0	-78.0	-78.0	0.57 (1)	4.70	E-N	0 / 1	0.00 (1)
E-F	-1213 / 0	-78.0	-78.0	0.28 (1)	5.50	N-F	0 / 410	0.07 (1)
F-G	-1489 / 0	-78.0	-78.0	0.57 (1)	4.70	N-H	-472 / 0	0.27 (1)
G-H	-1489 / 0	-78.0	-78.0	0.57 (1)	4.70	L-H	-130 / 60	0.08 (1)
H-I	-1847 / 0	-78.0	-78.0	0.63 (1)	4.26	B-Q	0 / 1591	0.36 (1)
I-J	0 / 35	-78.0	-78.0	0.15 (1)	10.00	L-I	0 / 1591	0.36 (1)
R-B	-1658 / 0	0.0	0.0	0.17 (1)	6.44			
K-I	-1657 / 0	0.0	0.0	0.17 (1)	6.44			
R-Q	0 / 0	-18.5	-18.5	0.23 (4)	10.00			
Q-P	0 / 1567	-18.5	-18.5	0.38 (4)	10.00			
P-O	0 / 1212	-18.5	-18.5	0.27 (1)	10.00			
O-N	0 / 1212	-18.5	-18.5	0.27 (1)	10.00			
N-M	0 / 1567	-18.5	-18.5	0.38 (4)	10.00			
M-L	0 / 1567	-18.5	-18.5	0.38 (4)	10.00			
L-K	0 / 0	-18.5	-18.5	0.23 (4)	10.00			

DESIGN CRITERIA

SPECIFIED LOADS:
TOP CH. LL = 21.0 PSF
DL = 6.0 PSF
BOT CH. LL = 0.0 PSF
DL = 7.4 PSF
TOTAL LOAD = 34.4 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 OBC 2012, OBC 2018
- CSA 086-09, CSA 086-14
- TPIC 2011, TPIC 2014

(55% OF 23.0 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 21.0 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = L/360 (1.09")
CALCULATED VERT. DEFL.(LL) = L/999 (0.06")
ALLOWABLE DEFL.(TL) = L/360 (1.09")
CALCULATED VERT. DEFL.(TL) = L/999 (0.15")

CSI: TC=0.63/1.00 (B-C:1), BC=0.38/1.00 (P-Q:4), WB=0.36/1.00 (B-Q:1), SSI=0.22/1.00 (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

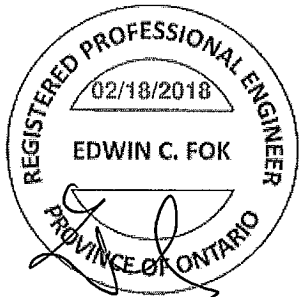
PLATE	GRIP(DRY) (PSI)	SHEAR (PLI)	SECTION (PLI)
MT20	618	354	1667 788 1987 1656

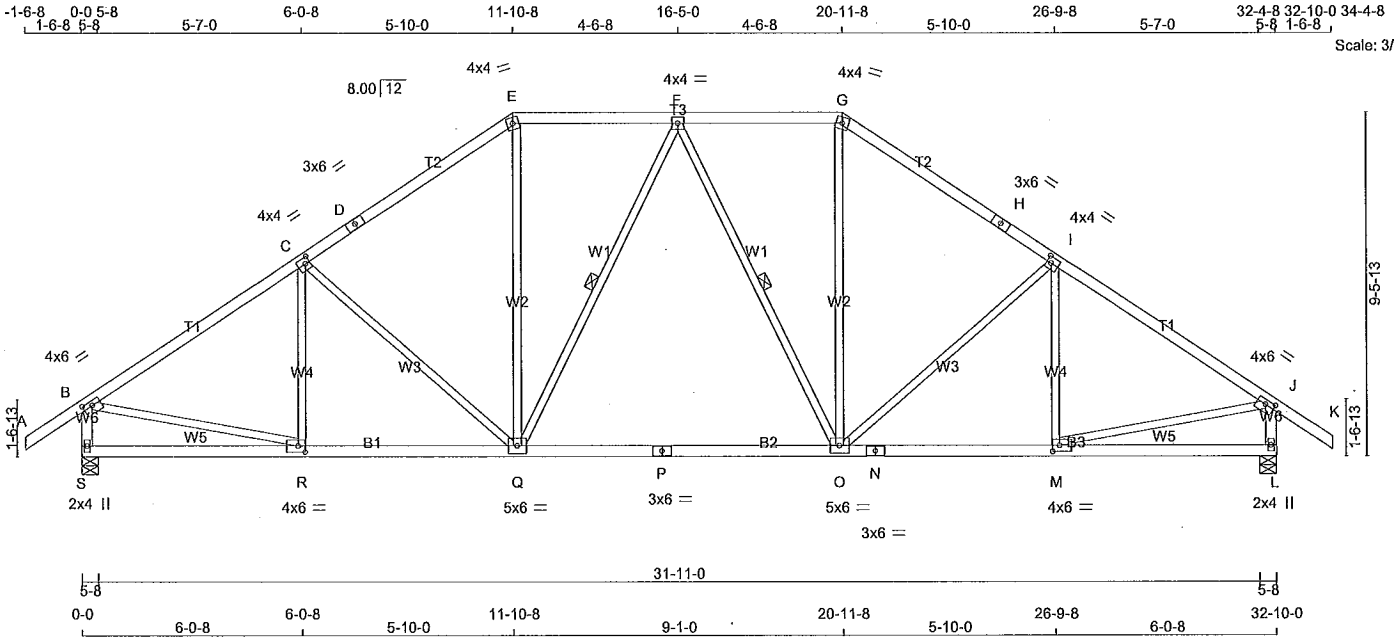
PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.87 (Q) (INPUT = 0.90)
JSI METAL= 0.52 (B) (INPUT = 1.00)

NOTE: Lateral brace(s) shown shall be 1x4 for Part 9 design as per OBC 9.23.13.11, and no less than 2x4 for Part 4 design





TOTAL WEIGHT = 2 X 148 = 296 lb

LUMBER
N. L. G. A. RULES

CHORDS	SIZE	LUMBER	DESCR.
A - D	2x4	DRY	No.2
D - E	2x4	DRY	No.2
E - G	2x4	DRY	No.2
G - H	2x4	DRY	No.2
H - K	2x4	DRY	No.2
S - B	2x4	DRY	No.2
L - J	2x4	DRY	No.2
S - P	2x4	DRY	No.2
P - N	2x4	DRY	No.2
L	2x4	DRY	No.2
EBS	2x3	DRY	No.2

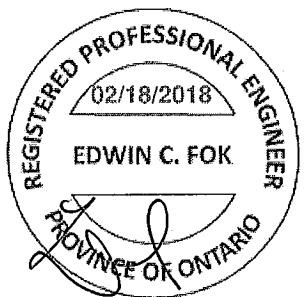
EXCEPT

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMVW-I	MT20	4.0	6.0	1.50	3.00
C	TMWW-I	MT20	4.0	4.0	2.00	1.50
D	TS-I	MT20	3.0	6.0		
E	TTW-m	MT20	4.0	4.0		
F	TMWW-I	MT20	4.0	4.0		
G	TTW-m	MT20	4.0	4.0		
H	TS-I	MT20	3.0	6.0		
I	TMWW-I	MT20	4.0	4.0	2.00	1.50
J	TMVW-I	MT20	4.0	6.0	1.50	3.00
L	BMV1+p	MT20	2.0	4.0		
M	BMWW-I	MT20	4.0	6.0	2.00	2.25
N	BS-I	MT20	3.0	6.0		
O	BMWWW-I	MT20	5.0	6.0		
P	BS-I	MT20	3.0	6.0		
Q	BMWWW-I	MT20	5.0	6.0		
R	BMWW-I	MT20	4.0	6.0	2.00	2.25
S	BMV1+p	MT20	2.0	4.0		

NOTE: Lateral brace(s) shown shall be 1x4 for Part 9 design as per OBC 9.23.13.11, and no less than 2x4 for Part 4 design



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		
S	1710	0	1710	0	5-8	2-9
L	1710	0	1710	0	5-8	2-9

UNFACTORED REACTIONS

JT	COMBINED	MAX./MIN. COMPONENT REACTIONS					
		1ST LCASE	SNOW	LIVE	PERM.LIVE	WIND	DEAD
S	1217	757 / 0	0 / 0	0 / 0	0 / 0	459 / 0	0 / 0
L	1217	757 / 0	0 / 0	0 / 0	0 / 0	459 / 0	0 / 0

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

BRACING
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.52 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-Q, F-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					WEBS				
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	LC1 MAX	MAX UNBRAC	MEMB.	MAX. FACTORED FORCE (LBS)	MAX UNBRAC	CS1 (LC)	CS1 (LC)
FR-TO					FR-TO				
A-B	0 / 35	-78.0	-78.0	0.15 (1)	10.00	R-C	-211 / 1	0.10 (1)	
B-C	-1834 / 0	-78.0	-78.0	0.44 (1)	4.52	C-Q	-316 / 0	0.41 (1)	
C-D	-1614 / 0	-78.0	-78.0	0.41 (1)	4.78	Q-E	0 / 570	0.13 (1)	
D-E	-1614 / 0	-78.0	-78.0	0.41 (1)	4.78	Q-F	-237 / 0	0.18 (1)	
E-F	-1322 / 0	-78.0	-78.0	0.22 (1)	5.40	F-O	-237 / 0	0.18 (1)	
F-G	-1322 / 0	-78.0	-78.0	0.22 (1)	5.40	O-G	0 / 570	0.13 (1)	
G-H	-1614 / 0	-78.0	-78.0	0.41 (1)	4.78	O-I	-316 / 0	0.41 (1)	
H-I	-1614 / 0	-78.0	-78.0	0.41 (1)	4.78	M-I	-211 / 1	0.10 (1)	
I-J	-1834 / 0	-78.0	-78.0	0.44 (1)	4.52	B-R	0 / 1584	0.36 (1)	
J-K	0 / 35	-78.0	-78.0	0.15 (1)	10.00	M-J	0 / 1584	0.36 (1)	
S-B	-1662 / 0	0.0	0.0	0.17 (1)	6.43				
L-J	-1662 / 0	0.0	0.0	0.17 (1)	6.43				
S-R	0 / 0	-18.5	-18.5	0.14 (4)	10.00				
R-Q	0 / 1552	-18.5	-18.5	0.38 (1)	10.00				
Q-P	0 / 1425	-18.5	-18.5	0.37 (4)	10.00				
P-O	0 / 1425	-18.5	-18.5	0.37 (4)	10.00				
O-N	0 / 1552	-18.5	-18.5	0.38 (1)	10.00				
N-M	0 / 1552	-18.5	-18.5	0.38 (1)	10.00				
M-L	0 / 0	-18.5	-18.5	0.14 (4)	10.00				

DESIGN CRITERIA

SPECIFIED LOADS:
TOP CH. LL = 21.0 PSF
DL = 6.0 PSF
BOT CH. LL = 0.0 PSF
DL = 7.4 PSF
TOTAL LOAD = 34.4 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 OBC 2012, OBC 2018
- CSA 086-09, CSA 086-14
- TPIC 2011, TPIC 2014

(55% OF 23.0 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 21.0 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL)= L/360 (1.09")
CALCULATED VERT. DEFL.(LL) = L/999 (0.06")
ALLOWABLE DEFL.(TL)= L/360 (1.09")
CALCULATED VERT. DEFL.(TL) = L/999 (0.22")

CSI: TC=0.44/1.00 (I-J:1), BC=0.38/1.00 (M-O:1), WB=0.41/1.00 (I-O:1), SSI=0.19/1.00 (I-J:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

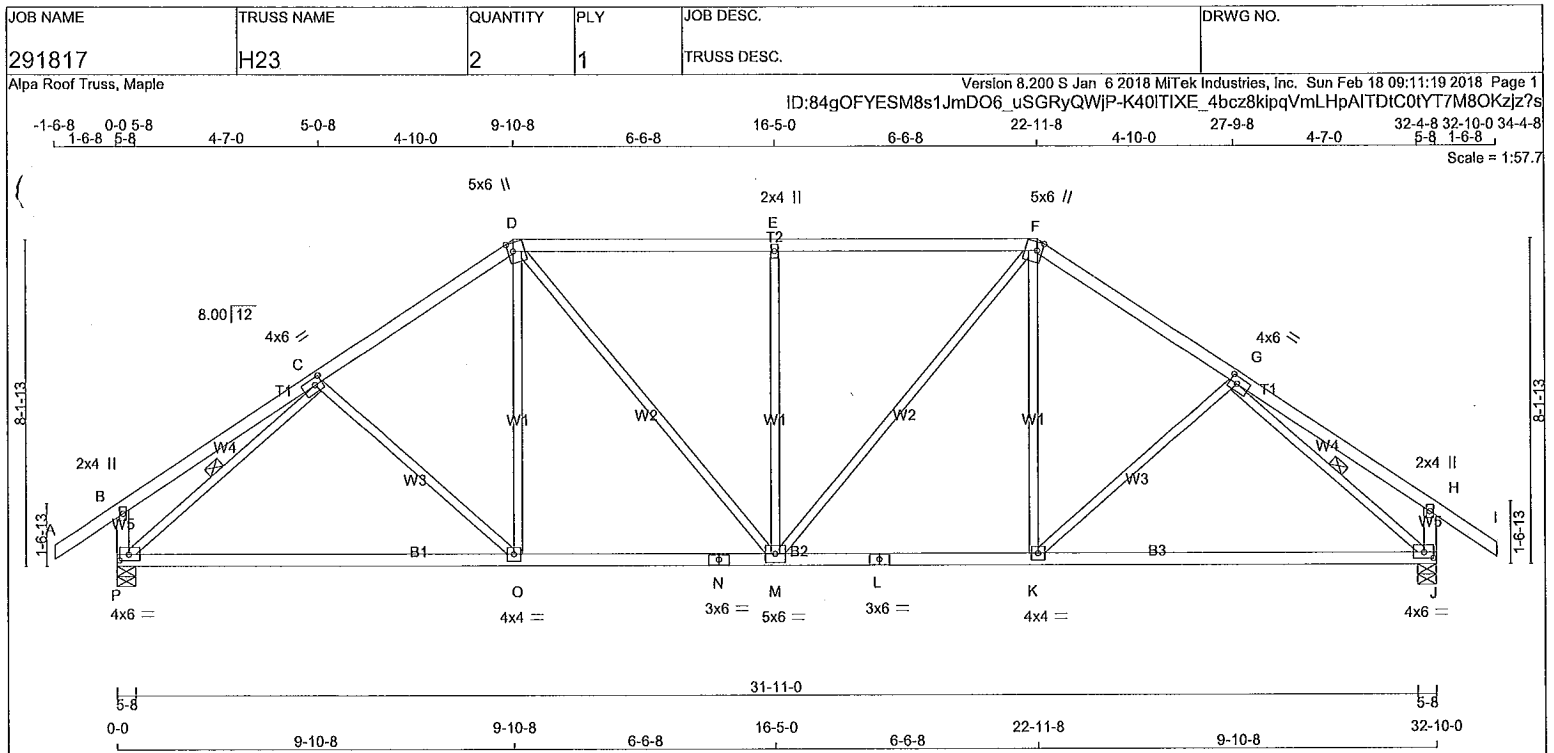
NAIL VALUES

PLATE	GRIP(DRY) (PSI)	SHEAR (PLI)	SECTION (PLI)
MT20	618	354	1667

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.87 (L) (INPUT = 0.90)
JSI METAL= 0.62 (P) (INPUT = 1.00)



TOTAL WEIGHT = 2 X 142 = 284 lb

LUMBER
N. L. G. A. RULES

CHORDS	SIZE	LUMBER	DESCR.
A - D	2x4	DRY No.2	SPF
D - F	2x4	DRY No.2	SPF
F - I	2x4	DRY No.2	SPF
P - B	2x4	DRY No.2	SPF
J - H	2x4	DRY No.2	SPF
P - N	2x4	DRY No.2	SPF
N - L	2x4	DRY No.2	SPF
L - J	2x4	DRY No.2	SPF
WEBS	2x3	DRY No.2	SPF
T			

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT TYPE	PLATES	W	LEN	Y	X
B	TMV+p	MT20	2.0	4.0	
C	TMWW-t	MT20	4.0	6.0	2.00 2.25
D	TTWW+m	MT20	5.0	6.0	2.50 1.50
E	TMW+w	MT20	2.0	4.0	
F	TTWW+m	MT20	5.0	6.0	2.50 1.50
G	TMWW-t	MT20	4.0	6.0	2.00 2.25
H	TMV+p	MT20	2.0	4.0	
J	BMVW1-t	MT20	4.0	6.0	1.75 2.75
K	BMWW-t	MT20	4.0	4.0	
L	BS-t	MT20	3.0	6.0	
M	BMWWW-t	MT20	5.0	6.0	
N	BS-t	MT20	3.0	6.0	
O	BMWW-t	MT20	4.0	4.0	
P	BMVW1-t	MT20	4.0	6.0	1.75 2.75

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		
P	1710	0	1710	0	5-8	1-14
J	1710	0	1710	0	5-8	1-14

UNFACTORED REACTIONS

JT	1ST LCASE MAX./MIN. COMPONENT REACTIONS						
	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
P	1217	757 / 0	0 / 0	0 / 0	0 / 0	459 / 0	0 / 0
J	1217	757 / 0	0 / 0	0 / 0	0 / 0	459 / 0	0 / 0

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

BRACING
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.55 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.

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

CHORDS					WEBS				
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX LC1 (LC)	MAX UNBRAC LENGTH	MEMB.	MAX. FACTORED FORCE (LBS)	MAX FACTORED CSI (LC)		
FR-TO					FR-TO				
A-B	0 / 35	-78.0	-78.0	0.15 (1)	10.00	C-O	-89 / 30	0.08 (1)	
B-C	0 / 25	-78.0	-78.0	0.30 (1)	10.00	O-D	0 / 254	0.07 (4)	
C-D	-1725 / 0	-78.0	-78.0	0.28 (1)	4.81	D-M	0 / 452	0.10 (1)	
D-E	-1708 / 0	-78.0	-78.0	0.48 (1)	4.55	M-E	-626 / 0	0.81 (1)	
E-F	-1708 / 0	-78.0	-78.0	0.48 (1)	4.55	M-F	0 / 452	0.10 (1)	
F-G	-1725 / 0	-78.0	-78.0	0.28 (1)	4.81	K-F	0 / 254	0.07 (4)	
G-H	0 / 25	-78.0	-78.0	0.30 (1)	10.00	K-G	-89 / 30	0.08 (1)	
H-I	0 / 35	-78.0	-78.0	0.15 (1)	10.00	P-C	-2010 / 0	0.61 (1)	
P-B	-274 / 0	0.0	0.0	0.03 (1)	7.81	G-J	-2010 / 0	0.61 (1)	
J-H	-274 / 0	0.0	0.0	0.03 (1)	7.81				
P-O	0 / 1479	-18.5	-18.5	0.54 (4)	10.00				
O-N	0 / 1417	-18.5	-18.5	0.55 (4)	10.00				
N-M	0 / 1417	-18.5	-18.5	0.55 (4)	10.00				
M-L	0 / 1417	-18.5	-18.5	0.55 (4)	10.00				
L-K	0 / 1417	-18.5	-18.5	0.55 (4)	10.00				
K-J	0 / 1479	-18.5	-18.5	0.54 (4)	10.00				

DESIGN CRITERIA

SPECIFIED LOADS:
TOP CH. LL = 21.0 PSF
DL = 6.0 PSF
BOT CH. LL = 0.0 PSF
DL = 7.4 PSF
TOTAL LOAD = 34.4 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 OBC 2012, OBC 2018
- CSA 086-09, CSA 086-14
- TPIC 2011, TPIC 2014

(55 % OF 23.0 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 21.0 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = L/360 (1.09")
CALCULATED VERT. DEFL.(LL) = L / 999 (0.08")
ALLOWABLE DEFL.(TL) = .L/360 (1.09")
CALCULATED VERT. DEFL.(TL) = L / 999 (0.31")

CSI: TC=0.48/1.00 (D-E:1) , BC=0.55/1.00 (K-M:4) , WB=0.81/1.00 (E-M:1) , SSI=0.25/1.00 (D-E:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

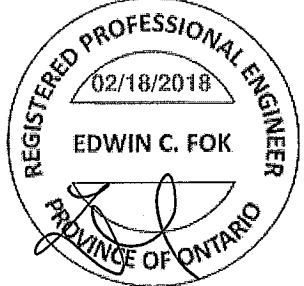
NAIL VALUES
PLATE GRIP(DRY) SHEAR SECTION (PSI) (PLI) (PLI)
MAX MIN MAX MIN MAX MIN
MT20 618 354 1667 788 1987 1656

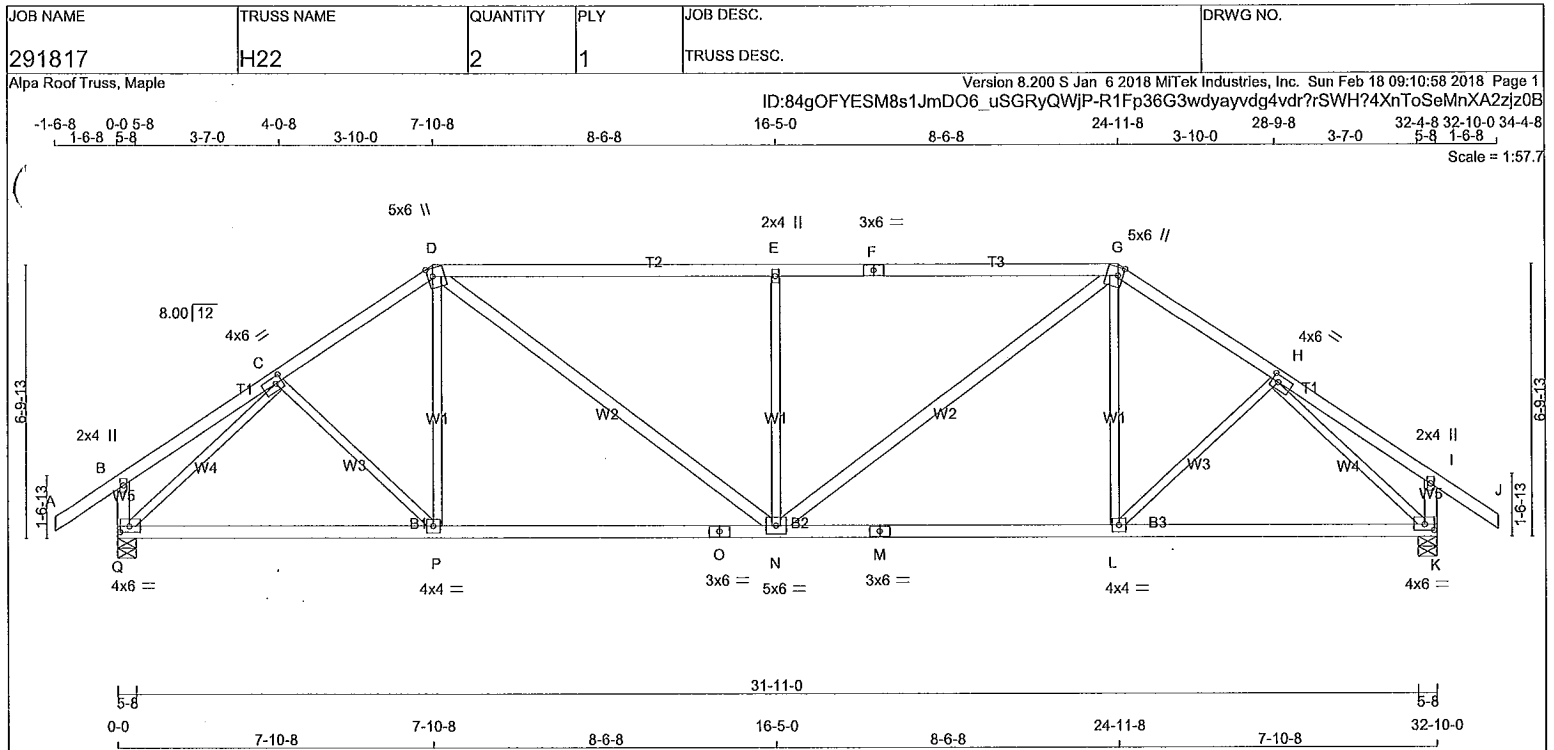
PLATE PLACEMENT TOL. = 0.250 Inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.88 (P) (INPUT = 0.90)
JSI METAL= 0.49 (G) (INPUT = 1.00)

NOTE: Lateral brace(s) shown shall be 1x4 for Part 9 design as per OBC 9.23.13.11, and no less than 2x4 for Part 4 design





LUMBER
N. L. G. A. RULES

CHORDS	SIZE	DRY	LUMBER	DESCR.
A - D	2x4	DRY	No.2	SPF
D - F	2x4	DRY	2100F 1.8E	SPF
F - G	2x4	DRY	2100F 1.8E	SPF
G - J	2x4	DRY	No.2	SPF
Q - B	2x4	DRY	No.2	SPF
K - I	2x4	DRY	No.2	SPF
Q - O	2x4	DRY	No.2	SPF
O - M	2x4	DRY	No.2	SPF
M - K	2x4	DRY	No.2	SPF
EBS	2x3	DRY	No.2	SPF
D - N	2x4	DRY	No.2	SPF
N - G	2x4	DRY	No.2	SPF

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMV+p	MT20	2.0	4.0		
C	TMWW-t	MT20	4.0	6.0	2.00	2.00
D	TTWW+m	MT20	5.0	6.0	2.50	1.50
E	TMW+w	MT20	2.0	4.0		
F	TS-t	MT20	3.0	6.0		
G	TTWW+m	MT20	5.0	6.0	2.50	1.50
H	TMWW-t	MT20	4.0	6.0	2.00	2.00
I	TMV+p	MT20	2.0	4.0		
K	BMVW-t	MT20	4.0	6.0	1.75	2.75
L	BMVW-t	MT20	4.0	4.0		
M	BS-t	MT20	3.0	6.0		
N	BMVWW-t	MT20	5.0	6.0		
O	BS-t	MT20	3.0	6.0		
P	BMVW-t	MT20	4.0	4.0		
Q	BMVW-t	MT20	4.0	6.0	1.75	2.75

NOTE: Lateral brace(s) shown shall be 1x4 for Part 9 design as per OBC 9.23.13.11, and no less than 2x4 for Part 4 design

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		
Q	1710	0	1710	0	5-8	1-14
K	1710	0	1710	0	5-8	1-14

UNFACTORED REACTIONS

JT	1ST LCASE COMBINED	MAX./MIN. COMPONENT REACTIONS				WIND	DEAD	SOIL
		SNOW	LIVE	PERM.LIVE	UNBRAC			
Q	1217	757 / 0	0 / 0	0 / 0	0 / 0	459 / 0	0 / 0	
K	1217	757 / 0	0 / 0	0 / 0	0 / 0	459 / 0	0 / 0	

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

BRACING
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.50 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.

LOADING
TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	FACTORED LC1 MAX. (CSI (LC))	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. UNBRAC LENGTH	FACTORED MAX. (CSI (LC))
FR-TO		FROM TO		FR-TO			
A-B	0 / 35	-78.0	-78.0 0.15 (1)	C-P	0 / 75		0.03 (4)
B-C	0 / 18	-78.0	-78.0 0.18 (1)	P-D	0 / 140		0.05 (4)
C-D	-1793 / 0	-78.0	-78.0 0.23 (1)	D-N	0 / 800		0.13 (1)
D-E	-2112 / 0	-78.0	-78.0 0.82 (1)	N-E	-821 / 0		0.64 (1)
E-F	-2113 / 0	-78.0	-78.0 0.82 (1)	N-G	0 / 800		0.13 (1)
F-G	-2113 / 0	-78.0	-78.0 0.82 (1)	L-G	0 / 140		0.05 (4)
G-H	-1793 / 0	-78.0	-78.0 0.23 (1)	L-H	0 / 75		0.03 (4)
H-I	0 / 18	-78.0	-78.0 0.18 (1)	Q-C	-2003 / 0		0.99 (1)
I-J	0 / 35	-78.0	-78.0 0.15 (1)	H-K	-2003 / 0		0.99 (1)
Q-B	-247 / 0	0.0	0.0 0.03 (1)				
K-I	-247 / 0	0.0	0.0 0.03 (1)				
Q-P	0 / 1428	-18.5	-18.5 0.43 (4)				
P-O	0 / 1476	-18.5	-18.5 0.45 (4)				
O-N	0 / 1476	-18.5	-18.5 0.45 (4)				
N-M	0 / 1476	-18.5	-18.5 0.45 (4)				
M-L	0 / 1476	-18.5	-18.5 0.45 (4)				
L-K	0 / 1428	-18.5	-18.5 0.43 (4)				

DESIGN CRITERIA

SPECIFIED LOADS:
TOP CH. LL = 21.0 PSF
DL = 6.0 PSF
BOT CH. LL = 0.0 PSF
DL = 7.4 PSF
TOTAL LOAD = 34.4 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 OBC 2012, OBC 2018
- CSA 086-09, CSA 086-14
- TPIC 2011, TPIC 2014

(55% OF 23.0 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 21.0 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL)= L/360 (1.09")
CALCULATED VERT. DEFL.(LL) = L/999 (0.08")
ALLOWABLE DEFL.(TL)= L/360 (1.09")
CALCULATED VERT. DEFL.(TL) = L/999 (0.18")

CSI: TC=0.82/1.00 (E-G:1), BC=0.45/1.00 (L-N:4), WB=0.99/1.00 (H-K:1), SSI=0.32/1.00 (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

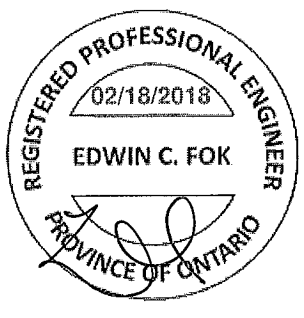
TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

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.

JSI GRIP= 0.88 (K) (INPUT = 0.90)
JSI METAL= 0.51 (M) (INPUT = 1.00)

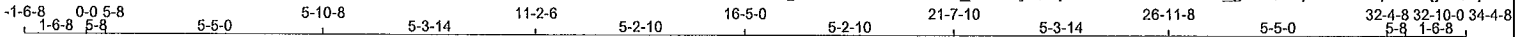


JOB NAME 291817	TRUSS NAME H21	QUANTITY 1	PLY 1	JOB DESC. TRUSS DESC.	DRWG NO.
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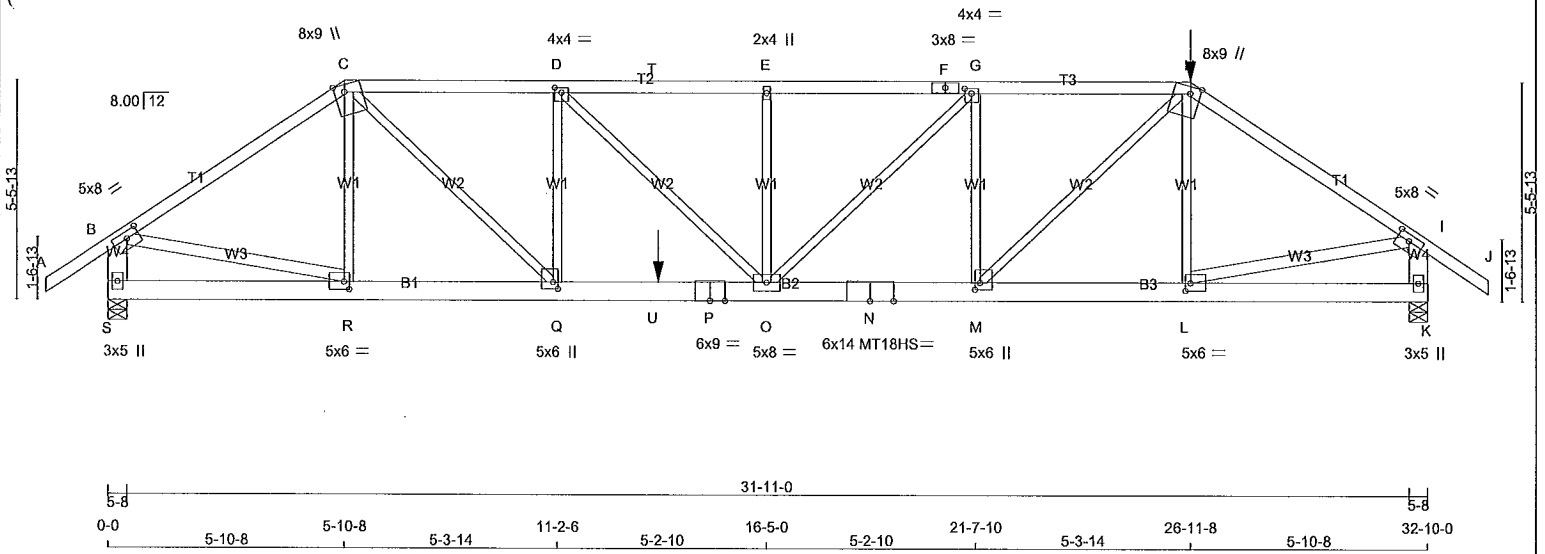
Alpa Roof Truss, Maple

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Scale = 1:57.7



TOTAL WEIGHT = 162 lb

LUMBER
N. L. G. A. RULES

CHORDS	SIZE	LUMBER	DESCR.
A - C	2x4 DRY	1650F 1.5E	SPF
C - F	2x4 DRY	1650F 1.5E	SPF
F - H	2x4 DRY	1650F 1.5E	SPF
H - J	2x4 DRY	1650F 1.5E	SPF
S - B	2x6 DRY	No.2	SPF
K - I	2x6 DRY	No.2	SPF
S - P	2x6 DRY	1650F 1.5E	SPF
P - N	2x6 DRY	1650F 1.5E	SPF
N - K	2x6 DRY	1650F 1.5E	SPF
T	2x3 DRY	No.2	SPF
B - R	2x4 DRY	No.2	SPF
L - I	2x4 DRY	No.2	SPF

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT TYPE	PLATES	W	LEN	Y	X
B	TMVW-t	MT20	5.0	8.0	2.00 3.75
C	TTWW+m	MT20	8.0	9.0	Edge 3.00
D	TMVW-t	MT20	4.0	4.0	1.50 2.00
E	TMVW+w	MT20	2.0	4.0	
F	TS-t	MT20	3.0	8.0	
G	TMVW-t	MT20	4.0	4.0	1.50 2.00
H	TTWW+m	MT20	8.0	9.0	Edge 3.00
I	TMVW-t	MT20	5.0	8.0	2.00 3.75
K	BMV1+p	MT20	3.0	5.0	
L	BMVW-t	MT20	5.0	6.0	2.25 1.50
M	BMVW-t	MT20	5.0	6.0	2.00 1.50
N	BS-t	MT18HS	6.0	14.0	
O	BMVW-t	MT20	5.0	8.0	
P	BS-t	MT20	6.0	9.0	
Q	BMVW-t	MT20	5.0	6.0	2.00 1.50
R	BMVW-t	MT20	5.0	6.0	2.25 1.50
S	BMV1+p	MT20	3.0	5.0	

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

NOTE: Lateral brace(s) shown shall be 1x4 for Part 9 design as per OBC 9.23.13.11, and no less than 2x4 for Part 4 design

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	
JT	2882	0	2882	0	0	5-8	3-14	
K	3292	0	3292	0	0	5-8	5-3	

UNFACTORED REACTIONS

JT	1ST LCASE COMBINED		MAX./MIN. SNOW		LIVE		PERM.LIVE		WIND		DEAD		SOIL	
	JT	2052	1269 / 0	0 / 0	0 / 0	0 / 0	0 / 0	0 / 0	782 / 0	0 / 0	0 / 0	0 / 0	0 / 0	0 / 0
K	2347	1432 / 0	0 / 0	0 / 0	0 / 0	0 / 0	0 / 0	915 / 0	0 / 0	0 / 0	0 / 0	0 / 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 = 2.44 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

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

LOADING
TOTAL LOAD CASES: (4)

FR-TO	CHORDS		MEMB.				WEBS				
	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. VERT. LOAD (LBS)	LC1 (LBS)	MAX. UNBRAC LENGTH	MEMB. FORCE (LBS)	MAX. VERT. LOAD (LBS)	LC1 (LBS)	MEMB. FORCE (LBS)	MAX. VERT. LOAD (LBS)	LC1 (LBS)
A-B	0 / 35	-78.0	-78.0	0.13 (1)	10.00	R-C	-546 / 0	0.24 (1)			
B-C	-3434 / 0	-78.0	-78.0	0.70 (1)	3.69	C-Q	0 / 2965	0.73 (1)			
C-D	-4985 / 0	-78.0	-78.0	0.58 (1)	3.21	Q-D	-1259 / 0	0.55 (1)			
D-T	-5765 / 0	-78.0	-78.0	0.69 (1)	2.89	D-O	0 / 1092	0.27 (1)			
T-E	-5765 / 0	-153.5	-153.5	0.69 (1)	2.89	O-E	-731 / 0	0.32 (1)			
E-F	-5765 / 0	-153.5	-153.5	0.98 (1)	2.44	O-G	0 / 1005	0.25 (1)			
F-G	-5765 / 0	-153.5	-153.5	0.98 (1)	2.44	M-G	-1614 / 0	0.70 (1)			
G-H	-5047 / 0	-153.5	-153.5	0.90 (1)	2.71	M-H	0 / 2431	0.60 (1)			
H-I	-3969 / 0	-78.0	-78.0	0.78 (1)	3.43	L-H	-376 / 25	0.16 (1)			
I-J	0 / 35	-78.0	-78.0	0.13 (1)	10.00	B-R	0 / 2908	0.51 (1)			
S-B	-2821 / 0	0.0	0.0	0.21 (1)	6.20	L-I	0 / 3361	0.59 (1)			
K-I	-3205 / 0	0.0	0.0	0.23 (1)	5.87						
S-R	0 / 0	-18.5	-18.5	0.06 (4)	10.00						
R-Q	0 / 2843	-18.5	-18.5	0.45 (1)	10.00						
Q-U	0 / 4985	-18.5	-18.5	0.96 (1)	10.00						
U-P	0 / 4985	-36.4	-36.4	0.96 (1)	10.00						
P-O	0 / 4985	-36.4	-36.4	0.96 (1)	10.00						
O-N	0 / 5047	-36.4	-36.4	0.59 (1)	10.00						
N-M	0 / 5047	-36.4	-36.4	0.59 (1)	10.00						
M-L	0 / 3291	-36.4	-36.4	0.33 (1)	10.00						
L-K	0 / 0	-36.4	-36.4	0.11 (4)	10.00						

FACTORED CONCENTRATED LOADS (LBS)

JT	LOC.	LC1	MAX-	MAX+	FACE	DIR.	TYPE
H	26-11-8	-334	-334	--	FRONT	VERT	TOTAL
U	13-8-8	-1065	-1065	--	FRONT	VERT	TOTAL

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 = 21.0 PSF
	DL = 6.0 PSF
BOT CH.	LL = 0.0 PSF
	DL = 7.4 PSF
TOTAL LOAD	= 34.4 PSF

SPACING = 24.0 IN. C/C

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

GIRDER TYPE: CPrimeHip
SIDE SETBACK = 5-10-8
END SETBACK = 5-10-8
END WALL WIDTH = 0-0
CORNER FRAMING TYPE: CONVENTIONAL
END JACK TYPE: CONVENTIONAL
APPLIED TO FRONT SIDE
- ADD'L LOADS BASED ON 55% OF GSL.
LOADS APPLIED TO FIRST 19-3-0 OF SPAN MEASURED FROM THE RIGHT.

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

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

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

(55% OF 23.0 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 21.0 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL)= L/360 (1.09")
CALCULATED VERT. DEFL.(LL) = L/999 (0.26")
ALLOWABLE DEFL.(TL)= L/360 (1.09")
CALCULATED VERT. DEFL.(TL) = L/778 (0.51")

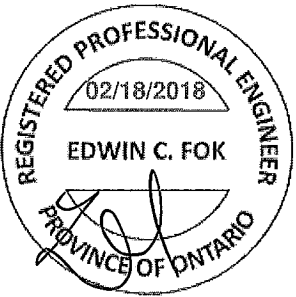
CSI: TC=0.98/1.00 (E-G:1), BC=0.96/1.00 (O-Q:1), WB=0.73/1.00 (C-Q:1), SSI=0.43/1.00 (O-Q:1)

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.

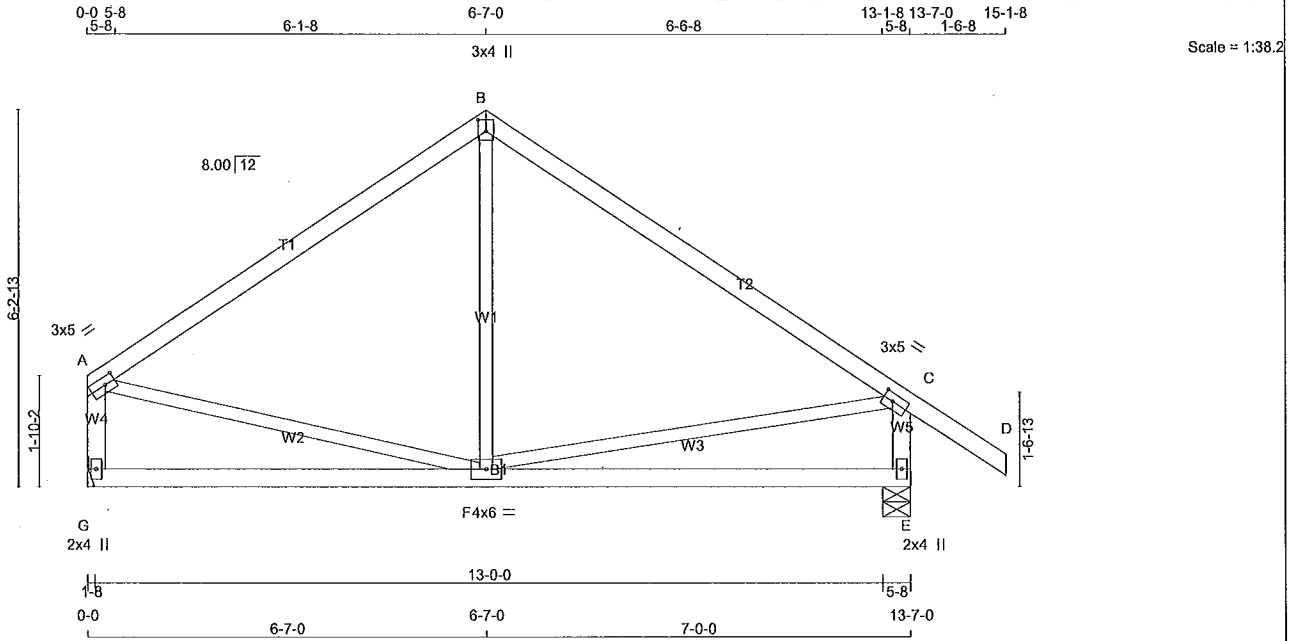


JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
291817	H19	2	1	TRUSS DESC.	

Alpa Roof Truss, Maple

Version 8.200 S Jan 6 2018 MiTek Industries, Inc. Sun Feb 18 09:07:26 2018 Page 1

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TOTAL WEIGHT = 2 X 55 = 109 lb

LUMBER		N. I. G. A. RULES		CHORDS		LUMBER		DESCR.	
CHORDS	SIZE	SIZE	DRY	1650F	1.5E	2100F	1.8E	SPF	
A - B	2x4	2x4	DRY	1650F	1.5E	2100F	1.8E	SPF	
B - D	2x4	2x4	DRY	1650F	1.5E	2100F	1.8E	SPF	
G - A	2x4	2x4	DRY	No.2				SPF	
E - C	2x4	2x4	DRY	No.2				SPF	
G - E	2x4	2x4	DRY	No.2				SPF	
ALL WEBS	2x3	2x3	DRY	No.2				SPF	
EXCEPT									

SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
A	TMVW-I	MT20	3.0	5.0	1.50	2.00
B	TTW+p	MT20	3.0	4.0	2.25	1.50
C	TMVW-I	MT20	3.0	5.0	1.50	2.00
E	BMV-I+p	MT20	2.0	4.0		
F	BMVWV-I	MT20	4.0	6.0		
G	BMV-I+p	MT20	2.0	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		REQRD BRG	
JT	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX		
G	655	0	655	0	0	HANGER BY OTHERS			
E	782	0	782	0	0	5-8	1-8		

UNFACTORED REACTIONS

JT	1ST LCASE	MAX/MIN.	COMPONENT REACTIONS	PERM.LIVE	WIND	DEAD	SOIL
			LIVE				
G	467	285 / 0	0 / 0	0 / 0	0 / 0	182 / 0	0 / 0
E	555	353 / 0	0 / 0	0 / 0	0 / 0	201 / 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 (PLF)	LC1 MAX	MEMB.	MAX. FACTORED FORCE (LBS)	MAX	UNBRAC
FR-TO		FROM TO	LENGTH	FR-TO			
A-B	-472 / 0	-78.0 -78.0	0.37 (1)	6.25	F-B	-6 / 107	0.04 (4)
B-C	-472 / 0	-78.0 -78.0	0.32 (1)	6.25	A-F	0 / 404	0.09 (1)
C-D	0 / 35	-78.0 -78.0	0.09 (1)	10.00	F-C	0 / 399	0.09 (1)
G-A	-613 / 0	0.0 0.0	0.07 (1)	7.81			
E-C	-729 / 0	0.0 0.0	0.08 (1)	7.81			
G-F	0 / 0	-18.5 -18.5	0.25 (4)	10.00			
F-E	0 / 0	-18.5 -18.5	0.25 (4)	10.00			

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH.	LL = 21.0 PSF
	DL = 6.0 PSF
BOT CH.	LL = 0.0 PSF
	DL = 7.4 PSF
TOTAL LOAD	= 34.4 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 OBC 2012, OBC 2018
- CSA 086-09, CSA 086-14
- TPIC 2011, TPIC 2014

(55 % OF 23.0 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 21.0 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL)= L/360 (0.45")
CALCULATED VERT. DEFL.(LL)= L/999 (0.01")
ALLOWABLE DEFL.(TL)= L/360 (0.45")
CALCULATED VERT. DEFL.(TL)= L/999 (0.07")

CSI: TC=0.37/1.00 (A-B:1), BC=0.25/1.00 (F-G:4), WB=0.09/1.00 (A-F:1), SSI=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.

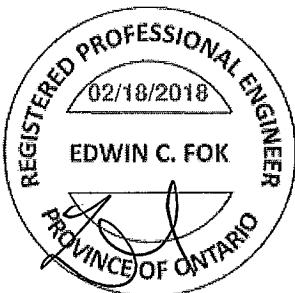
NAIL VALUES		PLATE GRIP(DRY) SHEAR		SECTION	
(PSI)	(PLI)	(PLI)	(PLI)	MAX MIN	MAX MIN
MT20	618	354	1667	788	1987
				1656	

PLATE PLACEMENT TOL. = 0.250 inches

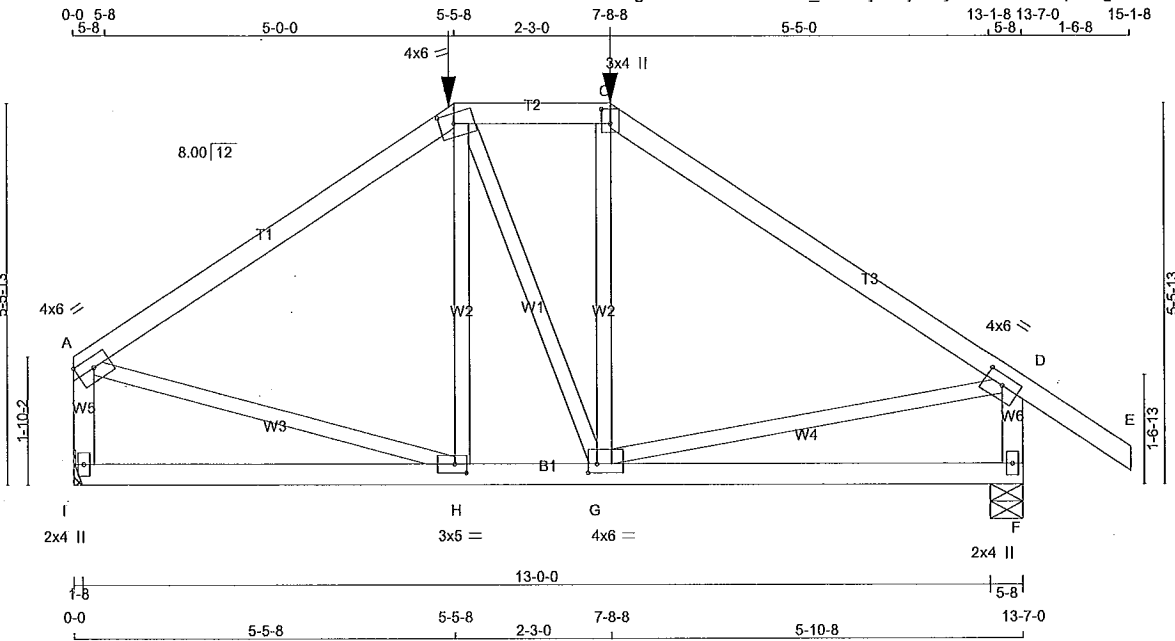
PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.74 (F) (INPUT = 0.90)
JSI METAL= 0.21 (C) (INPUT = 1.00)

NOTE: Lateral brace(s) shown shall be 1x4 for Part 9 design as per OBC 9.23.13.11, and no less than 2x4 for Part 4 design



A-18023620



Scale = 1:33.2

TOTAL WEIGHT = 60 LB

LUMBER
N.L.G.A. RULES

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

SEASONED LUMBER.

PLATES (table is in inches)

JT TYPE	PLATES	W	LEN	Y	X	
A	TMW-I	MT20	4.0	6.0	1.75	Edge
B	TTW-m	MT20	4.0	6.0	1.75	2.50
C	TTW+p	MT20	3.0	4.0	2.50	1.50
D	TMW-t	MT20	4.0	6.0	1.75	3.00
F	BMV1+p	MT20	2.0	4.0		
G	BMWW-I	MT20	4.0	6.0	1.50	1.50
H	BMWW-I	MT20	3.0	5.0	1.50	2.00
I	BMV1+p	MT20	2.0	4.0		

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

HANGERS NOTES
1) SPECIAL HANGER(S) OR CONNECTION(S) REQUIRED TO SUPPORT CONCENTRATED LOAD(S) 334.0 lbs FACTORED DOWN AT 7-8-8, AND 310.3 lbs FACTORED DOWN AT 5-5-8 ON TOP CHORD. DESIGN FOR UNSPECIFIED CONNECTION(S) IS DELEGATED TO THE BUILDING DESIGNER.

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	MAXIMUM FACTORED GROSS REACTION HORZ	INPUT BRG UPLIFT	REQRD BRG IN-SX
I	1195	0	1195	0	0	HANGER BY OTHERS
F	1300	0	1300	0	0	5-8 1-15

UNFACTORED REACTIONS

JT	1ST LOASE COMBINED	MAX SNOW	MIN LIVE	PERM.LIVE	WIND	DEAD	SOIL
I	854	510 / 0	0 / 0	0 / 0	0 / 0	344 / 0	0 / 0
F	927	567 / 0	0 / 0	0 / 0	0 / 0	360 / 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 = 5.02 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

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

LOADING
TOTAL LOAD CASES: (4)

CHORDS				WEBS				
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX LC1 (LC)	MAX UNBRAC LENGTH	MEMB.	MAX. FACTORED FORCE (LBS)	MAX FACTORED CSI (LC)	
FR-TO					FR-TO			
A-B	-1143 / 0	-78.0	-78.0	0.51 (1)	5.22	H-B	-118 / 59	0.05 (1)
B-C	-970 / 0	-153.5	-153.5	0.16 (1)	6.10	B-G	0 / 62	0.02 (1)
C-D	-1171 / 0	-78.0	-78.0	0.60 (1)	5.02	G-C	-85 / 90	0.04 (1)
D-E	0 / 35	-78.0	-78.0	0.16 (1)	10.00	A-H	0 / 985	0.24 (1)
I-A	-1109 / 0	0.0	0.0	0.13 (1)	7.49	G-D	0 / 994	0.25 (1)
F-D	-1208 / 0	0.0	0.0	0.14 (1)	7.25			
I-H	0 / 0	-36.4	-36.4	0.26 (4)	10.00			
H-G	0 / 947	-36.4	-36.4	0.39 (4)	10.00			
G-F	0 / 0	-36.4	-36.4	0.29 (4)	10.00			

FACTORED CONCENTRATED LOADS (LBS)

JT	LOC.	LC1	MAX-	MAX+	FACE	DIR.	TYPE
B	5-5-8	-310	-310	---	FRONT	VERT	TOTAL
C	7-8-8	-334	-334	---	FRONT	VERT	TOTAL

DESIGN CRITERIA

SPECIFIED LOADS:
TOP CH. LL = 21.0 PSF
DL = 6.0 PSF
BOT CH. LL = 0.0 PSF
DL = 7.4 PSF
TOTAL LOAD = 34.4 PSF

SPACING = 24.0 IN./C/C

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

GIRDER TYPE: CPrimeHip
LEFT SETBACK = 5-5-8
RIGHT SETBACK = 5-10-8
END SETBACK = 5-10-8
END WALL WIDTH = 0-0
CORNER FRAMING TYPE: CONVENTIONAL
END JACK TYPE: CONVENTIONAL
APPLIED TO FRONT SIDE
- ADDTL LOADS BASED ON 55 % OF GSL.

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

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

(55 % OF 23.0 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 21.0 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL)= L/360 (0.45")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.02")
ALLOWABLE DEFL.(TL)= L/360 (0.45")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.09")

CSI: TC=0.60/1.00 (C-D:1) , BC=0.39/1.00 (G-H:4) , WB=0.25/1.00 (D-G:1) , SSI=0.19/1.00 (F-G:4)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

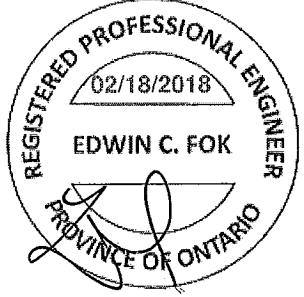
NAIL VALUES
PLATE GRIP(DRY) SHEAR SECTION (PSI) (PLI) (PLI)
MAX MIN MAX MIN MAX MIN
MT20 618 354 1667 788 1987 1656

PLATE PLACEMENT TOL. = 0.250 Inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.83 (C) (INPUT = 0.90)
JSI METAL= 0.34 (D) (INPUT = 1.00)

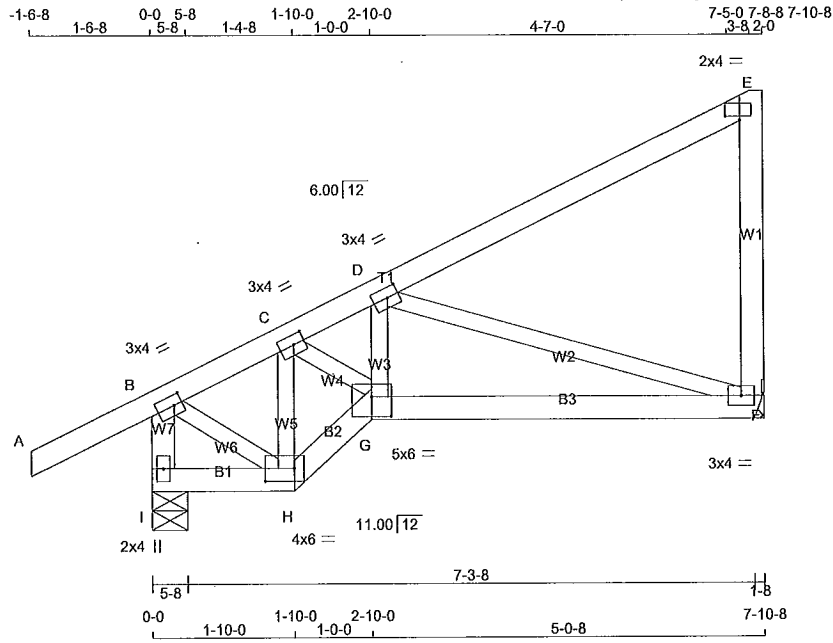
NOTE: Lateral brace(s) shown shall be 1x4 for Part 9 design as per OBC 9.23.13.11, and no less than 2x4 for Part 4 design



JOB NAME 292604	TRUSS NAME J1TC	QUANTITY 1	PLY 1	JOB DESC. TRUSS DESC.	DRWG NO.
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Alpa Roof Truss, Maple

Version 8.200 S Jan 6 2018 MiTek Industries, Inc. Sun Feb 18 08:51:29 2018 Page 1
ID:MF8ilriaTok7DlbpT4B71Xys4PG-A86uiO7nESgSCGL_5v8i7KXltmA5OyCOq_5AdljzljS



TOTAL WEIGHT = 35 lb [M]F

LUMBER
N. L. G. A. RULES

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

SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMVW-1	MT20	3.0	4.0	1.50	1.25
C	TMVW-1	MT20	3.0	4.0	1.50	1.75
D	TMVW-1	MT20	3.0	4.0	1.50	1.75
E	TVM-p	MT20	2.0	4.0	0.75	2.25
F	BMVW-1-t	MT20	3.0	4.0		
G	BBVW-1	MT20	5.0	6.0	3.00	3.00
H	BBVW-1	MT20	4.0	6.0	2.00	4.50
I	BMV1+p	MT20	2.0	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 IN-SX	REQRD IN-SX
	VERT	HORZ	DOWN	HORZ		
F	367	0	367	0		
I	518	0	518	0	5-8	1-8

HANGER BY OTHERS
MIN. SEAT SIZE: 1-8

UNFACTORED REACTIONS

JT	1ST LCASE COMBINED	MAX./MIN. COMPONENT REACTIONS					
		SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
F	262	158 / 0	0 / 0	0 / 0	0 / 0	104 / 0	0 / 0
I	366	240 / 0	0 / 0	0 / 0	0 / 0	127 / 0	0 / 0

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

BRACING
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 6.25 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 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)	LC1	MAX	UNBRAC	MEMB. FORCE (LBS)	MAX FACTORED CSI (LC)	
FR-TO						FR-TO		
A-B	0 / 28	-78.0	-78.0	0.14 (1)	10.00	H-C	-270 / 0	0.04 (1)
B-C	-280 / 0	-78.0	-78.0	0.11 (1)	6.25	C-G	0 / 435	0.10 (1)
C-D	-514 / 0	-78.0	-78.0	0.19 (1)	6.25	G-D	-34 / 57	0.02 (4)
D-E	-16 / 0	-78.0	-78.0	0.21 (1)	6.25	D-F	-564 / 0	0.24 (1)
F-E	-156 / 0	0.0	0.0	0.05 (1)	7.81	B-H	0 / 243	0.05 (1)
I-B	-501 / 0	0.0	0.0	0.05 (1)	7.81			
I-H	0 / 0	-18.5	-18.5	0.02 (4)	10.00			
H-G	0 / 271	-18.5	-18.5	0.05 (1)	10.00			
G-F	0 / 539	-18.5	-18.5	0.19 (4)	10.00			

DESIGN CRITERIA

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 OBC 2012, OBC 2018
- CSA 086-09, CSA 086-14
- TPIC 2011, TPIC 2014

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

(55 % OF 23.0 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 21.0 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = L/360 (0.26")
CALCULATED VERT. DEFL.(LL) = L/999 (0.01")
ALLOWABLE DEFL.(TL) = L/360 (0.26")
CALCULATED VERT. DEFL.(TL) = L/999 (0.04")

CSI: TC=0.21/1.00 (D-E:1), BC=0.19/1.00 (F-G:4), WB=0.24/1.00 (D-F:1), SSI=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

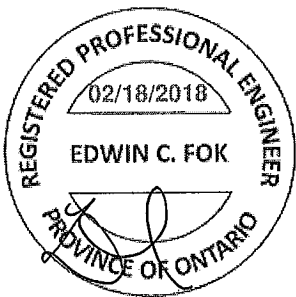
TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

NAIL VALUES

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

PLATE PLACEMENT TOL. = 0.250 inches
PLATE ROTATION TOL. = 5.0 Deg.
JSI GRIP= 0.81 (F) (INPUT = 0.90)
JSI METAL= 0.20 (F) (INPUT = 1.00)

NOTE: Lateral brace(s) shown shall be 1x4 for Part 9 design as per OBC 9.23.13.11, and no less than 2x4 for Part 4 design



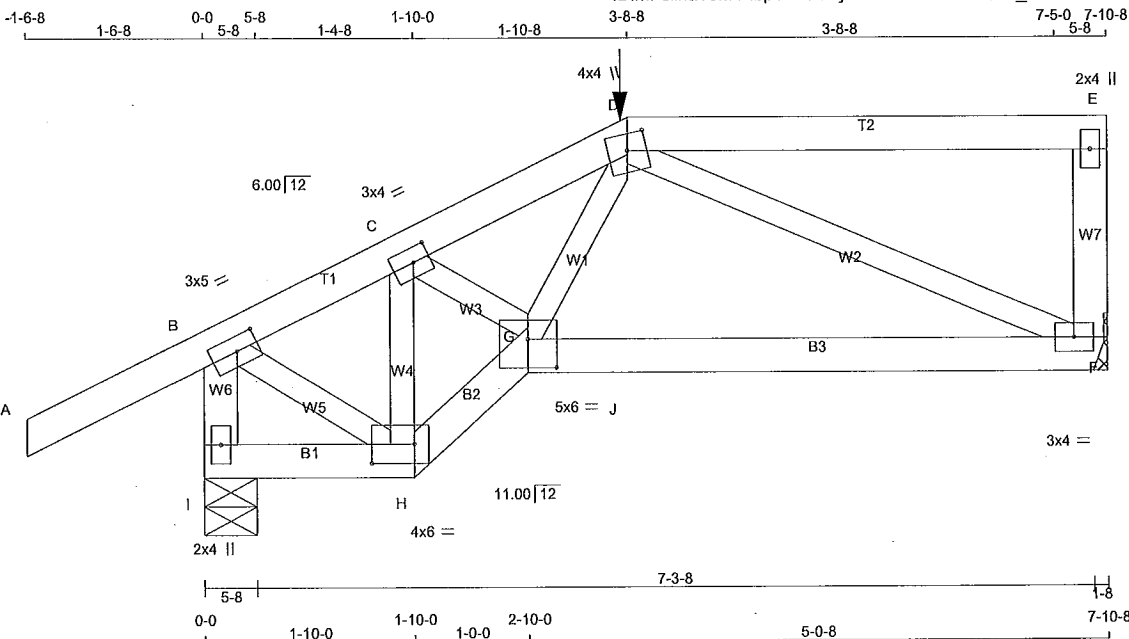
A-18023613

JOB NAME 292604	TRUSS NAME J1TA	QUANTITY 1	PLY 1	JOB DESC. TRUSS DESC.	DRWG NO.
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Alpa Roof Truss, Maple

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ID:MF8iiriaTok7DibpT4B71Xys4PG-UhNEPr4f7WS_Wnccz2e92h9b2koQORc4oMSxNDzjzNh



TOTAL WEIGHT = 33 lb

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

ALL WEBS			
SIZE	LUMBER	DESCR.	SPF
2x3	DRY	No.2	SPF

PLATES (table is in inches)						
JT	TYPE	PLATES	W	LEN	Y	X
B	TMVW-t	MT20	3.0	5.0	1.50	2.25
C	TMVW-t	MT20	3.0	4.0	1.50	1.75
D	TTVW+m	MT20	4.0	4.0	1.75	2.00
E	TMV+p	MT20	2.0	4.0		
F	BMVW1-t	MT20	3.0	4.0		
G	BBVW-I	MT20	5.0	6.0	3.00	3.00
H	BBVW-I	MT20	4.0	6.0	2.00	4.50
I	BMV1+p	MT20	2.0	4.0		

HANGERS NOTES
 1) SPECIAL HANGER(S) OR CONNECTION(S) REQUIRED TO SUPPORT CONCENTRATED LOAD(S) 106.4 lbs FACTORED DOWN AT 3-8-8 ON TOP CHORD. DESIGN FOR UNSPECIFIED CONNECTION(S) IS DELEGATED TO THE BUILDING DESIGNER.

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	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX
I	642	0	642	0	0	5-8	1-8

UNFACTORED REACTIONS							
JT	1ST LCASE	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
F	392	240 / 0	0 / 0	0 / 0	0 / 0	152 / 0	0 / 0
I	456	290 / 0	0 / 0	0 / 0	0 / 0	166 / 0	0 / 0

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

BRACING
 TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 6.25 FT.
 MAX. UNBRACED BOTTOM CHORD LENGTH = 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)	FACTORED LC1 MAX (LC)	MAX. UNBRAC	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. FACTORED CSI (LC)
A-B	0 / 28	-78.0	-78.0 0.16 (1)	10.00	H-C	-451 / 0	0.07 (1)
B-C	-425 / 0	-78.0	-78.0 0.15 (1)	6.25	C-G	0 / 374	0.09 (1)
C-D	-691 / 0	-78.0	-78.0 0.07 (1)	6.25	G-D	0 / 163	0.05 (4)
D-E	0 / 0	-111.3	-111.3 0.36 (1)	10.00	D-F	-607 / 0	0.21 (1)
F-E	-232 / 0	0.0	0.0 0.03 (1)	7.81	B-H	0 / 401	0.10 (1)
I-B	-618 / 0	0.0	0.0 0.07 (1)	7.81			
I-H	0 / 0	-26.4	-26.4 0.03 (4)	10.00			
H-G	0 / 447	-26.4	-26.4 0.08 (1)	10.00			
G-J	0 / 550	-26.4	-26.4 0.27 (4)	10.00			
J-F	0 / 550	-26.4	-26.4 0.27 (4)	10.00			

FACTORED CONCENTRATED LOADS (LBS)						
JT	LOC.	LC1	MAX-	MAX+	FACE	DIR.
D	3-8-8	-106	-106	---	FRONT	VERT

DESIGN CRITERIA

SPECIFIED LOADS:
 TOP CH. LL = 21.0 PSF
 DL = 6.0 PSF
 BOT CH. LL = 0.0 PSF
 DL = 7.4 PSF
 TOTAL LOAD = 34.4 PSF

SPACING = 24.0 IN. C/C

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

GIRDER TYPE: CPrimeHip
 LEFT SETBACK = 3-8-8
 RIGHT SETBACK = 0-0
 END SETBACK = 3-8-8
 END WALL WIDTH = 0-0
 CORNER FRAMING TYPE: CONVENTIONAL
 END JACK TYPE: CONVENTIONAL
 APPLIED TO FRONT SIDE
 - ADD'L LOADS BASED ON 55 % OF GSL.

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

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

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

(55 % OF 23.0 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 21.0 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = L/360 (0.26")
 CALCULATED VERT. DEFL.(LL) = L/999 (0.01")
 ALLOWABLE DEFL.(TL) = L/360 (0.26")
 CALCULATED VERT. DEFL.(TL) = L/999 (0.05")

CSI: TC=0.36/1.00 (D-E:1), BC=0.27/1.00 (F-G:4), WB=0.21/1.00 (D-F:1), SSI=0.20/1.00 (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

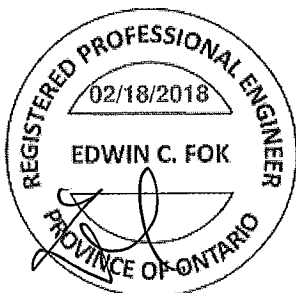
TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

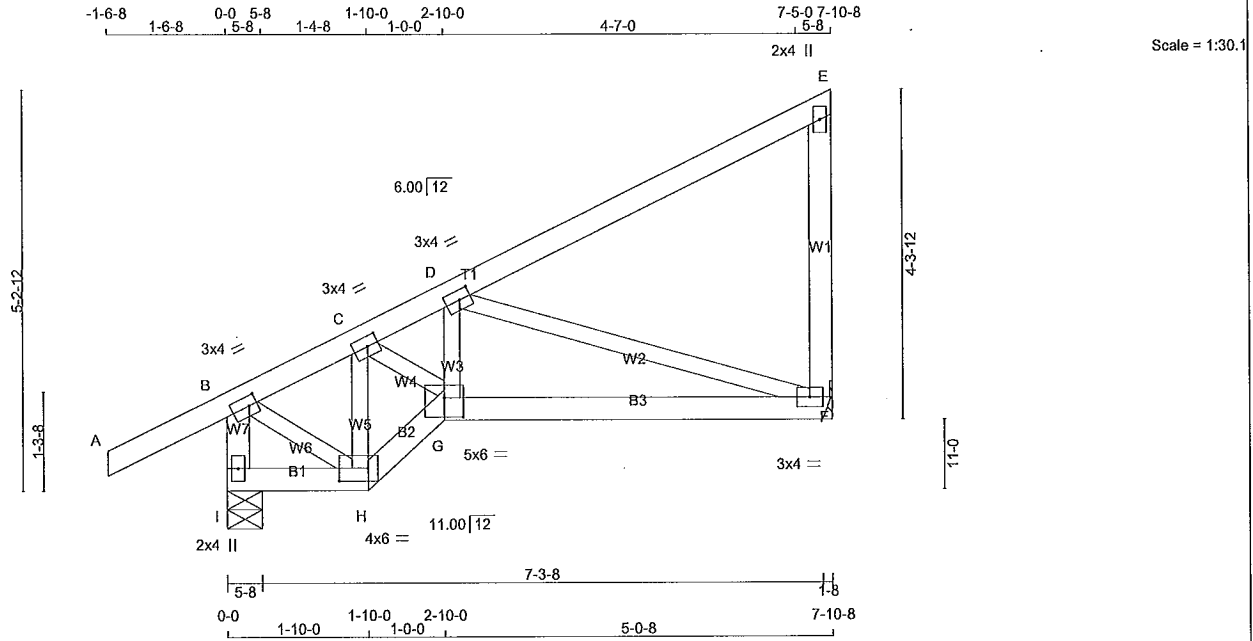
NOTE: Lateral brace(s) shown shall be 1x4 for Part 9 design as per OBC 9.23.13.11, and no less than 2x4 for Part 4 design



JOB NAME 292604	TRUSS NAME J1T	QUANTITY 4	PLY 1	JOB DESC. TRUSS DESC.	DRWG NO.
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Alpha Roof Truss, Maple

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ID:MF8iiriaTok7DlbpT4B71Xys4PG-EUTijuuticG8QLpLUPJFrKfdg6hRMVbTX7fSvzjzlf



TOTAL WEIGHT = 4 X 35 = 142 lb (M)

LUMBER
N. L. G. A. RULES

CHORDS	SIZE	DRY	LUMBER	DESCR.
I - B	2x4	DRY	No.2	SPF
A - E	2x4	DRY	No.2	SPF
F - E	2x4	DRY	No.2	SPF
I - H	2x4	DRY	No.2	SPF
H - G	2x4	DRY	No.2	SPF
G - F	2x4	DRY	No.2	SPF
ALL WEBS	2x3	DRY	No.2	SPF
DRY: SEASONED LUMBER.				

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMVW-1	MT20	3.0	4.0	1.50	1.25
C	TMVW-1	MT20	3.0	4.0	1.50	1.75
D	TMVW-1	MT20	3.0	4.0	1.50	1.75
E	TMV+p	MT20	2.0	4.0		
F	BMVW-1	MT20	3.0	4.0		
G	BBWW-1	MT20	5.0	6.0	3.00	3.00
H	BBWW-1	MT20	4.0	6.0	2.00	4.50
I	BMV1+p	MT20	2.0	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		
I	518	0	518	0	5-8	1-8
F	367	0	367	0	HANGER BY OTHERS MIN. SEAT SIZE: 1-8	

UNFACTORED REACTIONS

JT	1ST LCASE COMBINED	MAX./MIN. COMPONENT REACTIONS		WIND	DEAD	SOIL
		SNOW	LIVE			
I	366	240 / 0	0 / 0	0 / 0	127 / 0	0 / 0
F	262	158 / 0	0 / 0	0 / 0	104 / 0	0 / 0

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

BRACING
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 6.25 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 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 (LC)	MAX. UNBRAC	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. FACTORED CSI (LC)
FR-TO		FROM TO	LENGTH	FR-TO			
I-B	-501 / 0	0.0	0.05 (1)	7.81	B-H	0 / 243	0.05 (1)
A-B	0 / 28	-78.0	-78.0 0.14 (1)	10.00	H-C	-270 / 0	0.04 (1)
B-C	-280 / 0	-78.0	-78.0 0.11 (1)	6.25	C-G	0 / 435	0.10 (1)
C-D	-514 / 0	-78.0	-78.0 0.19 (1)	6.25	G-D	-34 / 57	0.02 (4)
D-E	-16 / 0	-78.0	-78.0 0.21 (1)	6.25	D-F	-564 / 0	0.24 (1)
F-E	-156 / 0	0.0	0.0 0.04 (1)	7.81			
I-H	0 / 0	-18.5	-18.5 0.02 (4)	10.00			
H-G	0 / 271	-18.5	-18.5 0.05 (1)	10.00			
G-F	0 / 539	-18.5	-18.5 0.19 (4)	10.00			

DESIGN CRITERIA

SPECIFIED LOADS:
TOP CH. LL = 21.0 PSF
DL = 6.0 PSF
BOT CH. LL = 0.0 PSF
DL = 7.4 PSF
TOTAL LOAD = 34.4 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 OBC 2012, OBC 2018
- CSA 086-09, CSA 086-14
- TPIC 2011, TPIC 2014

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

(55 % OF 23.0 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 21.0 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL)= L/360 (0.26")
CALCULATED VERT. DEFL.(LL) = L/999 (0.01")
ALLOWABLE DEFL.(TL)= L/360 (0.26")
CALCULATED VERT. DEFL.(TL) = L/999 (0.04")

CSI: TC=0.21/1.00 (D-E:1), BC=0.19/1.00 (F-G:4), WB=0.24/1.00 (D-F:1), SSI=0.17/1.00 (C-D: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

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

NAIL VALUES

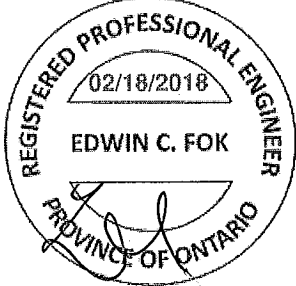
PLATE	GRIP(DRY)	SHEAR	SECTION
(PSI)	(PLI)	(PLI)	
MT20	618	354	1667 788 1987 1656

PLATE PLACEMENT TOL. = 0.250 inches

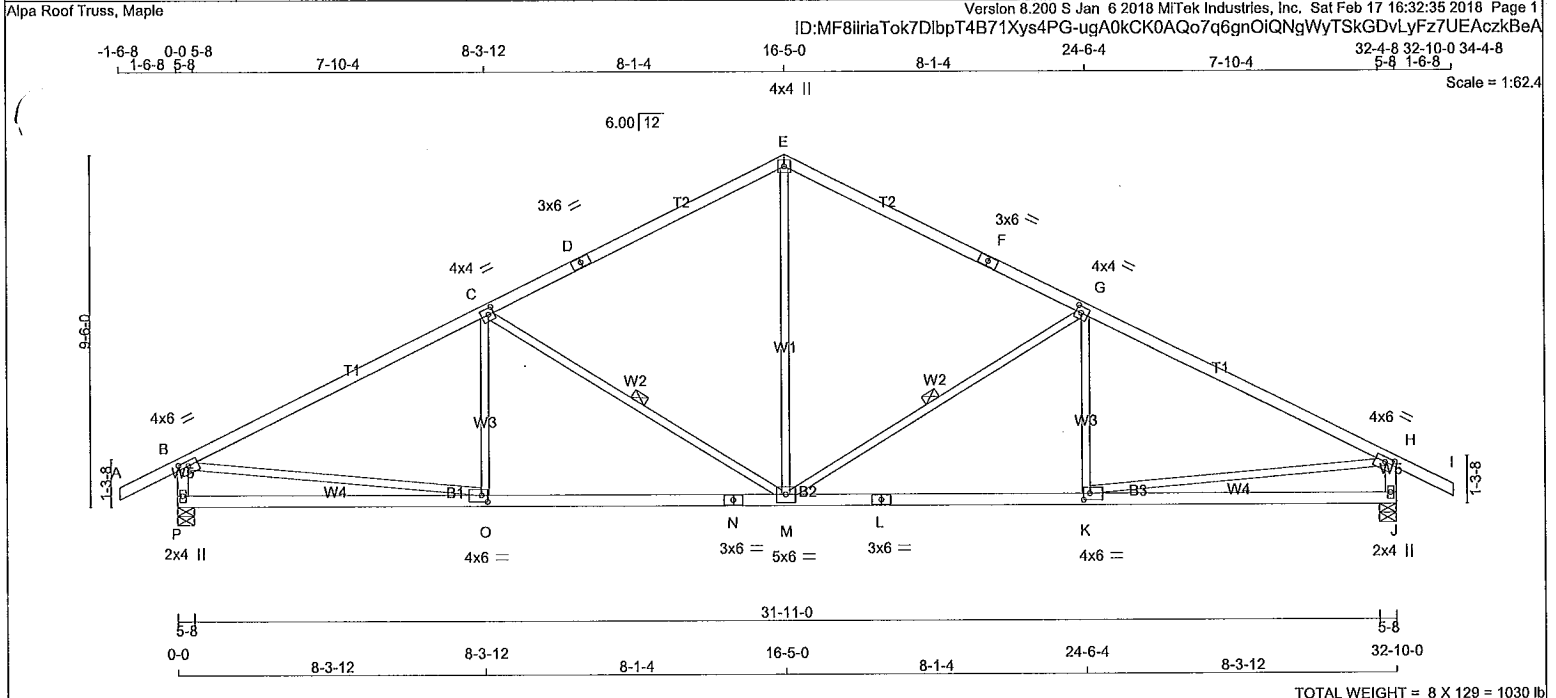
PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.81 (F) (INPUT = 0.90)
JSI METAL= 0.20 (F) (INPUT = 1.00)

NOTE: Lateral brace(s) shown shall be 1x4 for Part 9 design as per OBC 9.23.13.11, and no less than 2x4 for Part 4 design



A-18023610



TOTAL WEIGHT = 8 X 129 = 1030 lb [M]F

LUMBER
N. L. G. A. RULES

CHORDS	SIZE	DRY	LUMBER	DESCR.
A - D	2x4	DRY	No.2	SPF
D - E	2x4	DRY	No.2	SPF
E - F	2x4	DRY	No.2	SPF
F - I	2x4	DRY	No.2	SPF
P - B	2x4	DRY	No.2	SPF
J - H	2x4	DRY	No.2	SPF
P - N	2x4	DRY	No.2	SPF
N - L	2x4	DRY	No.2	SPF
L - J	2x4	DRY	No.2	SPF
BS	2x3	DRY	No.2	SPF

DRY: SEASONED LUMBER.

PLATES (table ts in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMVW-t	MT20	4.0	6.0	1.50	2.75
C	TMWW-t	MT20	4.0	4.0	2.00	1.75
D	TS-t	MT20	3.0	6.0		
E	TTW+p	MT20	4.0	4.0		
F	TS-t	MT20	3.0	6.0		
G	TMWW-t	MT20	4.0	4.0	2.00	1.75
H	TMVW-t	MT20	4.0	6.0	1.50	2.75
J	BMV1+p	MT20	2.0	4.0		
K	BMWW-t	MT20	4.0	6.0	2.00	2.00
L	BS-t	MT20	3.0	6.0		
M	BMWWW-t	MT20	5.0	6.0		
N	BS-t	MT20	3.0	6.0		
O	BMWW-t	MT20	4.0	6.0	2.00	2.00
P	BMV1+p	MT20	2.0	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
JT	VERT	DOWN	UPLIFT	IN-SX
P	1709	0	0	5-8
J	1709	0	0	5-8

UNFACTORED REACTIONS

JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
P	1216	757 / 0	0 / 0	0 / 0	0 / 0	459 / 0	0 / 0
J	1216	757 / 0	0 / 0	0 / 0	0 / 0	459 / 0	0 / 0

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

BRACING
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.37 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-M, C-M.

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

LOADING
TOTAL LOAD CASES: (4)

MEMB.	C H O R D S				W E B S			
	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. UNBRACED LENGTH (LC)	MAX. UNBRACED LENGTH (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. UNBRACED LENGTH (LC)	MAX. UNBRACED LENGTH (LC)
FR-TO					FR-TO			
A-B	0 / 28	-78.0	-78.0	0.14 (1)	10.00	M-E	0 / 950	0.21 (1)
B-C	-2268 / 0	-78.0	-78.0	0.96 (1)	3.37	M-G	-752 / 0	0.49 (1)
C-D	-1628 / 0	-78.0	-78.0	0.81 (1)	4.04	K-G	-75 / 98	0.03 (4)
D-E	-1628 / 0	-78.0	-78.0	0.81 (1)	4.04	C-M	-752 / 0	0.49 (1)
E-F	-1628 / 0	-78.0	-78.0	0.81 (1)	4.04	O-C	-75 / 98	0.03 (4)
F-G	-1628 / 0	-78.0	-78.0	0.81 (1)	4.04	B-O	0 / 2074	0.47 (1)
G-H	-2268 / 0	-78.0	-78.0	0.96 (1)	3.37	K-H	0 / 2074	0.47 (1)
H-I	0 / 28	-78.0	-78.0	0.14 (1)	10.00			
P-B	-1646 / 0	0.0	0.0	0.17 (1)	6.45			
J-H	-1646 / 0	0.0	0.0	0.17 (1)	6.45			
P-O	0 / 0	-18.5	-18.5	0.30 (4)	10.00			
O-N	0 / 2059	-18.5	-18.5	0.50 (4)	10.00			
N-M	0 / 2059	-18.5	-18.5	0.50 (4)	10.00			
M-L	0 / 2059	-18.5	-18.5	0.50 (4)	10.00			
L-K	0 / 2059	-18.5	-18.5	0.50 (4)	10.00			
K-J	0 / 0	-18.5	-18.5	0.30 (4)	10.00			

DESIGN CRITERIA

SPECIFIED LOADS:
TOP CH. LL = 21.0 PSF
DL = 6.0 PSF
BOT CH. LL = 0.0 PSF
DL = 7.4 PSF
TOTAL LOAD = 34.4 PSF

SPACING = 24.0 IN. C/C

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

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

(55 % OF 23.0 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 21.0 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL)= L/360 (1.09")
CALCULATED VERT. DEFL.(LL) = L/999 (0.11")
ALLOWABLE DEFL.(TL)= L/360 (1.09")
CALCULATED VERT. DEFL.(TL) = L/999 (0.24")

CSI: TC=0.96/1.00 (G-H:1), BC=0.50/1.00 (K-M:4), WB=0.49/1.00 (G-M:1), SSI=0.28/1.00 (G-H:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

NAIL VALUES

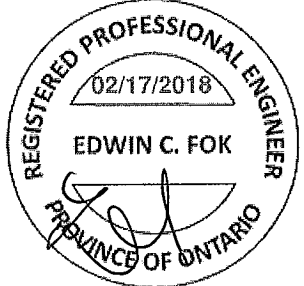
PLATE GRIP(DRY)	SHEAR (PSI)	SECTION (PLI)	MAX MIN	MAX MIN	MAX MIN
MT20	618	354	1667	788	1987

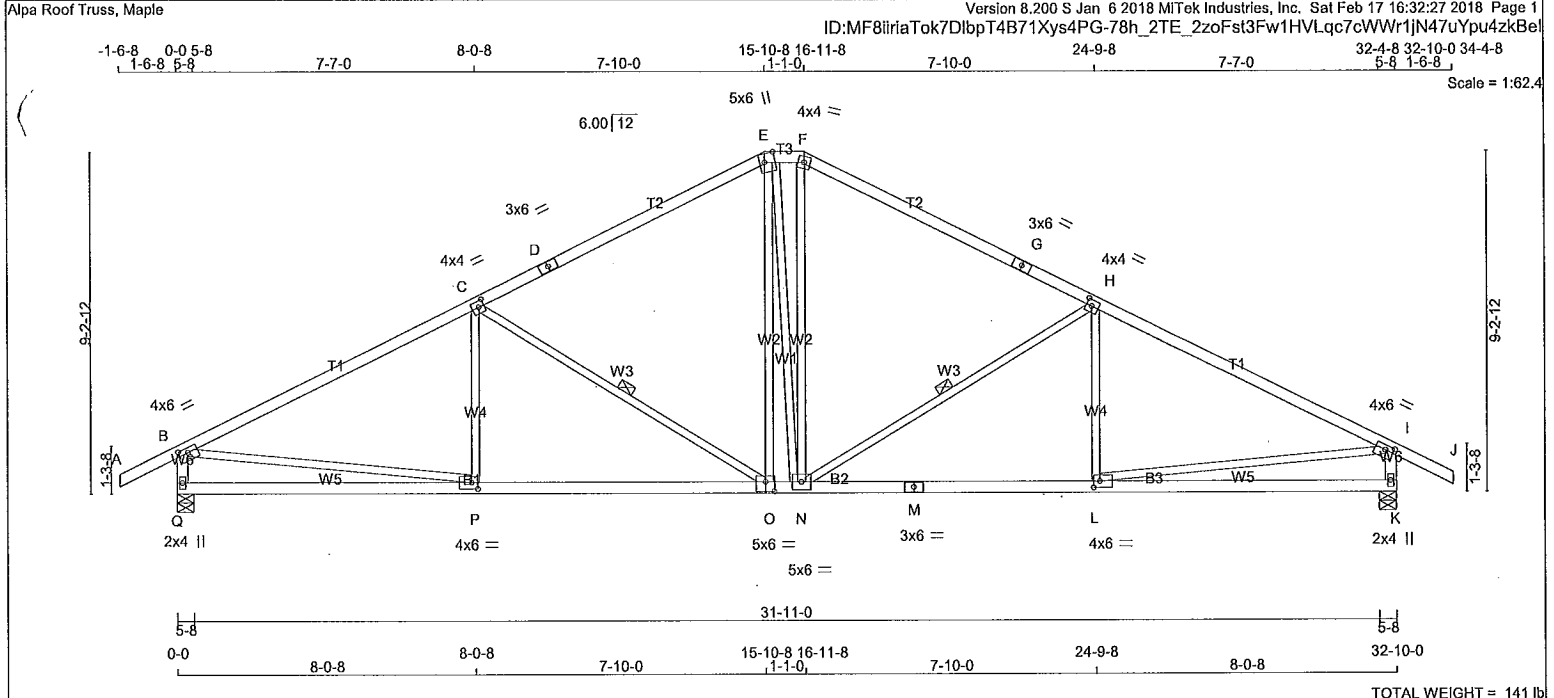
PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.89 (K) (INPUT = 0.90)
JSI METAL= 0.67 (L) (INPUT = 1.00)

NOTE: Lateral brace(s) shown shall be 1x4 for Part 9 design as per OBC 9.23.13.11, and no less than 2x4 for Part 4 design





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

A - D	2x4	DRY	No.2	SPF	SPF
D - E	2x4	DRY	No.2	SPF	SPF
E - F	2x4	DRY	No.2	SPF	SPF
F - G	2x4	DRY	No.2	SPF	SPF
G - J	2x4	DRY	No.2	SPF	SPF
Q - B	2x4	DRY	No.2	SPF	SPF
K - I	2x4	DRY	No.2	SPF	SPF
Q - O	2x4	DRY	No.2	SPF	SPF
O - M	2x4	DRY	No.2	SPF	SPF
K	2x4	DRY	No.2	SPF	SPF
EB	2x3	DRY	No.2	SPF	SPF

EXCEPT DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMVW-t	MT20	4.0	6.0	1.50	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	Edge	3.50
F	TTW-m	MT20	4.0	4.0		
G	TS-t	MT20	3.0	6.0		
H	TMVW-t	MT20	4.0	4.0	2.00	1.75
I	TMVW-t	MT20	4.0	6.0	1.50	2.75
K	BMV1+p	MT20	2.0	4.0		
L	BMVW-t	MT20	4.0	6.0	2.00	2.00
M	BS-t	MT20	3.0	6.0		
N	BMVW-t	MT20	5.0	6.0		
O	BSW-t	MT20	5.0	6.0	3.00	3.00
P	BMVW-t	MT20	4.0	6.0	2.00	2.00
Q	BMV1+p	MT20	2.0	4.0		

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

NOTE: Lateral brace(s) shown shall be 1x4 for Part 9 design as per OBC 9.23.13.11, and no less than 2x4 for Part 4 design

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	UPLIFT	IN-SX
Q	1709	0	0	5-8
K	1709	0	0	5-8

UNFACTORED REACTIONS

JT	1ST LCASE COMBINED	MAX./MIN. SNOW	MIN. COMPONENT LIVE	PERM.LIVE	WIND	DEAD	SOIL
Q	1216	757 / 0	0 / 0	0 / 0	0 / 0	459 / 0	0 / 0
K	1216	757 / 0	0 / 0	0 / 0	0 / 0	459 / 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 = 3.51 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

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

1 LATERAL BRACE(S) AT 1/2 LENGTH OF C-O, H-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				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. UNBRACED LENGTH (L.C)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. UNBRACED LENGTH (L.C)	MEMB.
FR-TO		FROM TO		FR-TO			
A-B	0 / 28	-78.0	-78.0 0.14 (1)	10.00	P-C	-73 / 107	0.04 (4)
B-C	-2278 / 0	-78.0	-78.0 0.89 (1)	3.51	C-O	-730 / 0	0.45 (1)
C-D	-1655 / 0	-78.0	-78.0 0.76 (1)	4.15	O-E	0 / 352	0.08 (1)
D-E	-1655 / 0	-78.0	-78.0 0.76 (1)	4.15	E-N	0 / 103	0.03 (4)
E-F	-1464 / 0	-78.0	-78.0 0.03 (1)	5.40	N-F	0 / 460	0.10 (1)
F-G	-1666 / 0	-78.0	-78.0 0.76 (1)	4.14	N-H	-713 / 0	0.44 (1)
G-H	-1666 / 0	-78.0	-78.0 0.76 (1)	4.14	L-H	-89 / 91	0.04 (1)
H-I	-2273 / 0	-78.0	-78.0 0.89 (1)	3.52	B-P	0 / 2082	0.47 (1)
I-J	0 / 28	-78.0	-78.0 0.14 (1)	10.00	L-I	0 / 2078	0.47 (1)
Q-B	-1650 / 0	0.0	0.0 0.17 (1)	6.45			
K-I	-1648 / 0	0.0	0.0 0.17 (1)	6.45			
Q-P	0 / 0	-18.5	-18.5 0.33 (4)	10.00			
P-O	0 / 2067	-18.5	-18.5 0.53 (4)	10.00			
O-N	0 / 1453	-18.5	-18.5 0.36 (1)	10.00			
N-M	0 / 2062	-18.5	-18.5 0.48 (4)	10.00			
M-L	0 / 2062	-18.5	-18.5 0.48 (4)	10.00			
L-K	0 / 0	-18.5	-18.5 0.28 (4)	10.00			

DESIGN CRITERIA

SPECIFIED LOADS:
TOP CH. LL = 21.0 PSF
DL = 6.0 PSF
BOT CH. LL = 0.0 PSF
DL = 7.4 PSF
TOTAL LOAD = 34.4 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 OBC 2012, OBC 2018
- CSA 086-09, CSA 086-14
- TPIC 2011, TPIC 2014

(55% OF 23.0 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 21.0 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL)= L/360 (1.09")
CALCULATED VERT. DEFL.(LL) = L / 999 (0.10")
ALLOWABLE DEFL.(TL)= L/360 (1.09")
CALCULATED VERT. DEFL.(TL) = L / 999 (0.28")

CSI: TC=0.89/1.00 (B-C:1) , BC=0.53/1.00 (O-P:4) , WB=0.47/1.00 (B-P:1) , SSI=0.27/1.00 (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.

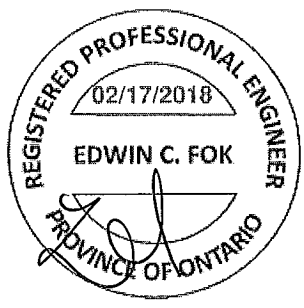
NAIL VALUES

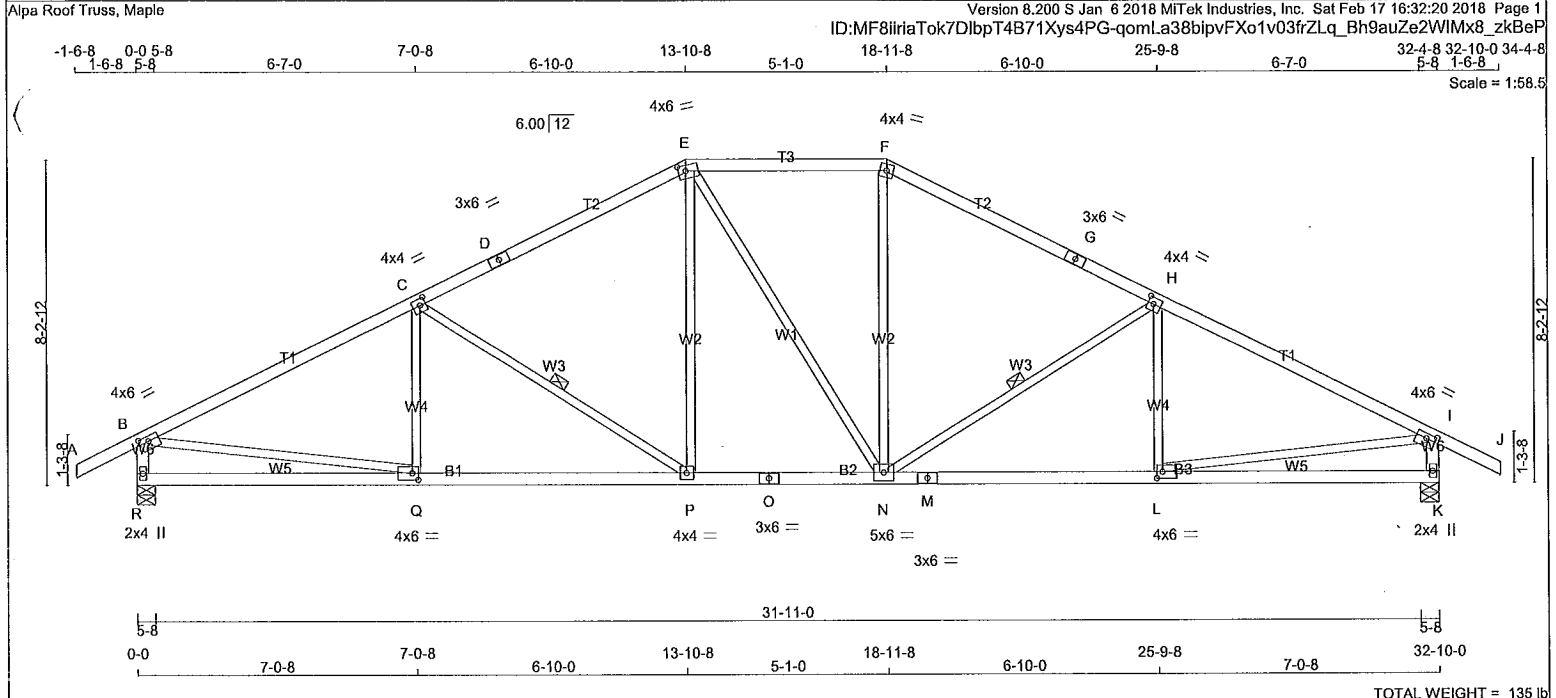
PLATE	GRIP(DRY) (PSI)	SHEAR (PLI)	SECTION (PLI)
	MAX	MIN	MAX
MT20	618	354	1667
	1667	788	1987

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.90 (P) (INPUT = 0.90)
JSI METAL= 0.69 (M) (INPUT = 1.00)





TOTAL WEIGHT = 135 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
E - F	2x4	DRY	No.2	SPF
F - G	2x4	DRY	No.2	SPF
G - J	2x4	DRY	No.2	SPF
R - B	2x4	DRY	No.2	SPF
K - I	2x4	DRY	No.2	SPF
R - O	2x4	DRY	No.2	SPF
O - M	2x4	DRY	No.2	SPF
K	2x4	DRY	No.2	SPF
WS	2x3	DRY	No.2	SPF

EXCEPT
 DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMVW-t	MT20	4.0	6.0	1.50	2.75
C	TMVW-t	MT20	4.0	4.0	2.00	1.75
D	TS-t	MT20	3.0	6.0		
E	TTW-w-m	MT20	4.0	6.0	1.75	2.25
F	TTW-m	MT20	4.0	4.0		
G	TS-t	MT20	3.0	6.0		
H	TMVW-t	MT20	4.0	4.0	2.00	1.75
I	TMVW-t	MT20	4.0	6.0	1.50	2.75
K	BMV1+p	MT20	2.0	4.0		
L	BMVW-t	MT20	4.0	6.0	2.00	1.75
M	BS-t	MT20	3.0	6.0		
N	BMVW-t	MT20	5.0	6.0		
O	BS-t	MT20	3.0	6.0		
P	BMVW-t	MT20	4.0	4.0		
Q	BMVW-t	MT20	4.0	6.0	2.00	1.75
R	BMV1+p	MT20	2.0	4.0		

NOTE: Lateral brace(s) shown shall be 1x4 for Part 9 design as per OBC 9.23.13.11, and no less than 2x4 for Part 4 design

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

BEARINGS

JT	FACTORED GROSS REACTION VERT	HORZ	MAXIMUM FACTORED GROSS REACTION DOWN	HORZ	INPUT BRG UPLIFT	REQRD IN-SX
R	1709	0	1709	0	5-8	2-8
K	1709	0	1709	0	5-8	2-8

UNFACTORED REACTIONS

JT	1ST LCASE COMBINED	MAX/MIN SNOW	COMPONENT REACTIONS LIVE	PERM.LIVE	WIND	DEAD	SOIL
R	1216	757 / 0	0 / 0	0 / 0	0 / 0	459 / 0	0 / 0
K	1216	757 / 0	0 / 0	0 / 0	0 / 0	459 / 0	0 / 0

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

BRACING
 TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.88 FT.
 MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

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

1 LATERAL BRACE(S) AT 1/2 LENGTH OF C-P, H-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				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. UNBRACED LENGTH (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. UNBRACED LENGTH (LC)	
FR-TO				FR-TO			
A-B	0 / 28	-78.0	-78.0 0.14 (1)	10.00	Q-C	-143 / 55	0.05 (1)
B-C	-2278 / 0	-78.0	-78.0 0.65 (1)	3.88	C-P	-550 / 0	0.26 (1)
C-D	-1821 / 0	-78.0	-78.0 0.57 (1)	4.33	P-E	0 / 403	0.09 (1)
D-E	-1821 / 0	-78.0	-78.0 0.57 (1)	4.33	E-N	0 / 1	0.00 (1)
E-F	-1607 / 0	-78.0	-78.0 0.29 (1)	4.91	N-F	0 / 405	0.09 (1)
F-G	-1822 / 0	-78.0	-78.0 0.57 (1)	4.33	N-H	-549 / 0	0.26 (1)
G-H	-1822 / 0	-78.0	-78.0 0.57 (1)	4.33	L-H	-144 / 55	0.05 (1)
H-I	-2278 / 0	-78.0	-78.0 0.65 (1)	3.88	B-Q	0 / 2083	0.47 (1)
I-J	0 / 28	-78.0	-78.0 0.14 (1)	10.00	L-I	0 / 2083	0.47 (1)
R-B	-1655 / 0	0.0	0.0 0.17 (1)	6.44			
K-I	-1655 / 0	0.0	0.0 0.17 (1)	6.44			
R-Q	0 / 0	-18.5	-18.5 0.22 (4)	10.00			
Q-P	0 / 2063	-18.5	-18.5 0.44 (1)	10.00			
P-O	0 / 1607	-18.5	-18.5 0.33 (1)	10.00			
O-N	0 / 1607	-18.5	-18.5 0.33 (1)	10.00			
N-M	0 / 2063	-18.5	-18.5 0.44 (1)	10.00			
M-L	0 / 2063	-18.5	-18.5 0.44 (1)	10.00			
L-K	0 / 0	-18.5	-18.5 0.22 (4)	10.00			

DESIGN CRITERIA

SPECIFIED LOADS:
 TOP CH. LL = 21.0 PSF
 DL = 6.0 PSF
 BOT CH. LL = 0.0 PSF
 DL = 7.4 PSF
 TOTAL LOAD = 34.4 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 OBC 2012, OBC 2018
 - CSA 086-09, CSA 086-14
 - TPIC 2011, TPIC 2014

(55% OF 23.0 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 21.0 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = L/360 (1.09")
 CALCULATED VERT. DEFL.(LL) = L/999 (0.10")
 ALLOWABLE DEFL.(TL) = L/360 (1.09")
 CALCULATED VERT. DEFL.(TL) = L/999 (0.21")

CSI: TC=0.65/1.00 (B-C:1), BC=0.44/1.00 (P-Q:1), WB=0.47/1.00 (B-Q:1), SSI=0.24/1.00 (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.

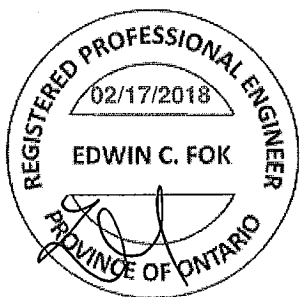
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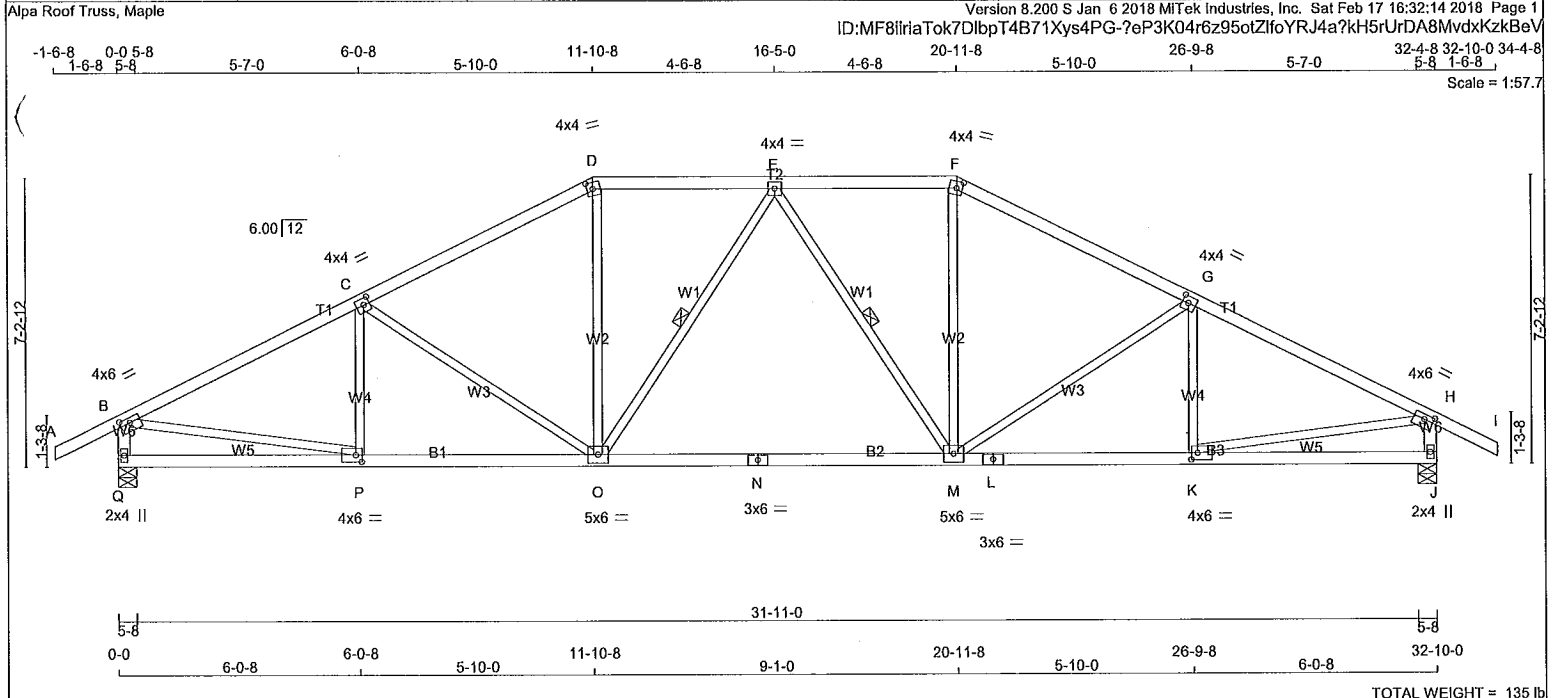
PLATE	GRIP(DRY) (PSI)	SHEAR (PLI)	SECTION (PLI)
MT20	618	354	1867 788 1987 1656

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.87 (R) (INPUT = 0.90)
 JSI METAL= 0.61 (B) (INPUT = 1.00)





LUMBER
N. L. G. A. RULES

CHORDS	SIZE	LUMBER	DESCR.
A - D	2x4	DRY	No.2
D - F	2x4	DRY	No.2
F - I	2x4	DRY	No.2
Q - B	2x4	DRY	No.2
J - H	2x4	DRY	No.2
Q - N	2x4	DRY	No.2
N - L	2x4	DRY	No.2
L - J	2x4	DRY	No.2
WEBS	2x3	DRY	No.2
T			SPF

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMVW-t	MT20	4.0	6.0	1.50	2.75
C	TMWW-t	MT20	4.0	4.0	2.00	1.75
D	TTW-m	MT20	4.0	4.0	2.00	1.75
E	TMWW-t	MT20	4.0	4.0		
F	TTW-m	MT20	4.0	4.0	2.00	1.75
G	TMWW-t	MT20	4.0	4.0	2.00	1.75
H	TMVW-t	MT20	4.0	6.0	1.50	2.75
J	BMV1+p	MT20	2.0	4.0		
K	BMWW-t	MT20	4.0	6.0	2.00	1.75
L	BS-t	MT20	3.0	6.0		
M	BMWWW-t	MT20	5.0	6.0		
N	BS-t	MT20	3.0	6.0		
O	BMWWW-t	MT20	5.0	6.0		
P	BMWW-t	MT20	4.0	6.0	2.00	1.75
Q	BMV1+p	MT20	2.0	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		
Q	1709	0	1709	0	5-8	2-8
J	1709	0	1709	0	5-8	2-8

UNFACTORED REACTIONS

JT	COMBINED	MAX./MIN. COMPONENT REACTIONS				WIND	DEAD	SOIL
		SNOW	LIVE	PERM.LIVE				
Q	1216	757 / 0	0 / 0	0 / 0	0 / 0	459 / 0	0 / 0	
J	1216	757 / 0	0 / 0	0 / 0	0 / 0	459 / 0	0 / 0	

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

BRACING
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.13 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 E-O, E-M.

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

LOADING
TOTAL LOAD CASES: (4)

C H O R D S				W E B S			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. UNBRACED LENGTH (L.C)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. UNBRACED LENGTH (L.C)	
FR-TO				FR-TO			
A-B	0 / 28	-78.0	-78.0 0.14 (1)	10.00	P-C	-226 / 0	0.06 (1)
B-C	-2258 / 0	-78.0	-78.0 0.45 (1)	4.13	C-O	-358 / 0	0.35 (1)
C-D	-1974 / 0	-78.0	-78.0 0.41 (1)	4.40	O-D	0 / 562	0.13 (1)
D-E	-1751 / 0	-78.0	-78.0 0.23 (1)	4.82	O-E	-255 / 0	0.12 (1)
E-F	-1751 / 0	-78.0	-78.0 0.23 (1)	4.82	E-M	-255 / 0	0.12 (1)
F-G	-1974 / 0	-78.0	-78.0 0.41 (1)	4.40	M-F	0 / 562	0.13 (1)
G-H	-2258 / 0	-78.0	-78.0 0.45 (1)	4.13	M-G	-358 / 0	0.35 (1)
H-I	0 / 28	-78.0	-78.0 0.14 (1)	10.00	K-G	-226 / 0	0.06 (1)
Q-B	-1659 / 0	0.0	0.0 0.17 (1)	6.44	B-P	0 / 2066	0.46 (1)
J-H	-1659 / 0	0.0	0.0 0.17 (1)	6.44	K-H	0 / 2066	0.46 (1)
Q-P	0 / 0	-18.5	-18.5 0.14 (4)	10.00			
P-O	0 / 2040	-18.5	-18.5 0.46 (1)	10.00			
O-N	0 / 1889	-18.5	-18.5 0.44 (1)	10.00			
N-M	0 / 1889	-18.5	-18.5 0.44 (1)	10.00			
M-L	0 / 2040	-18.5	-18.5 0.46 (1)	10.00			
L-K	0 / 2040	-18.5	-18.5 0.46 (1)	10.00			
K-J	0 / 0	-18.5	-18.5 0.14 (4)	10.00			

DESIGN CRITERIA

SPECIFIED LOADS:
TOP CH. LL = 21.0 PSF
DL = 6.0 PSF
BOT CH. LL = 0.0 PSF
DL = 7.4 PSF
TOTAL LOAD = 34.4 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 OBC 2012, OBC 2018
- CSA 086-09, CSA 086-14
- TPIC 2011, TPIC 2014

(55% OF 23.0 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 21.0 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL)= L/360 (1.09")
CALCULATED VERT. DEFL.(LL) = L / 999 (0.09")
ALLOWABLE DEFL.(TL)= L/360 (1.09")
CALCULATED VERT. DEFL.(TL) = L / 999 (0.28")

CSI: TC=0.45/1.00 (G-H:1), BC=0.46/1.00 (K-M:1), WB=0.46/1.00 (H-K:1), SSI=0.20/1.00 (G-H:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

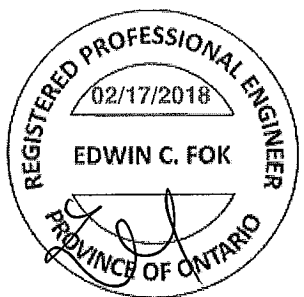
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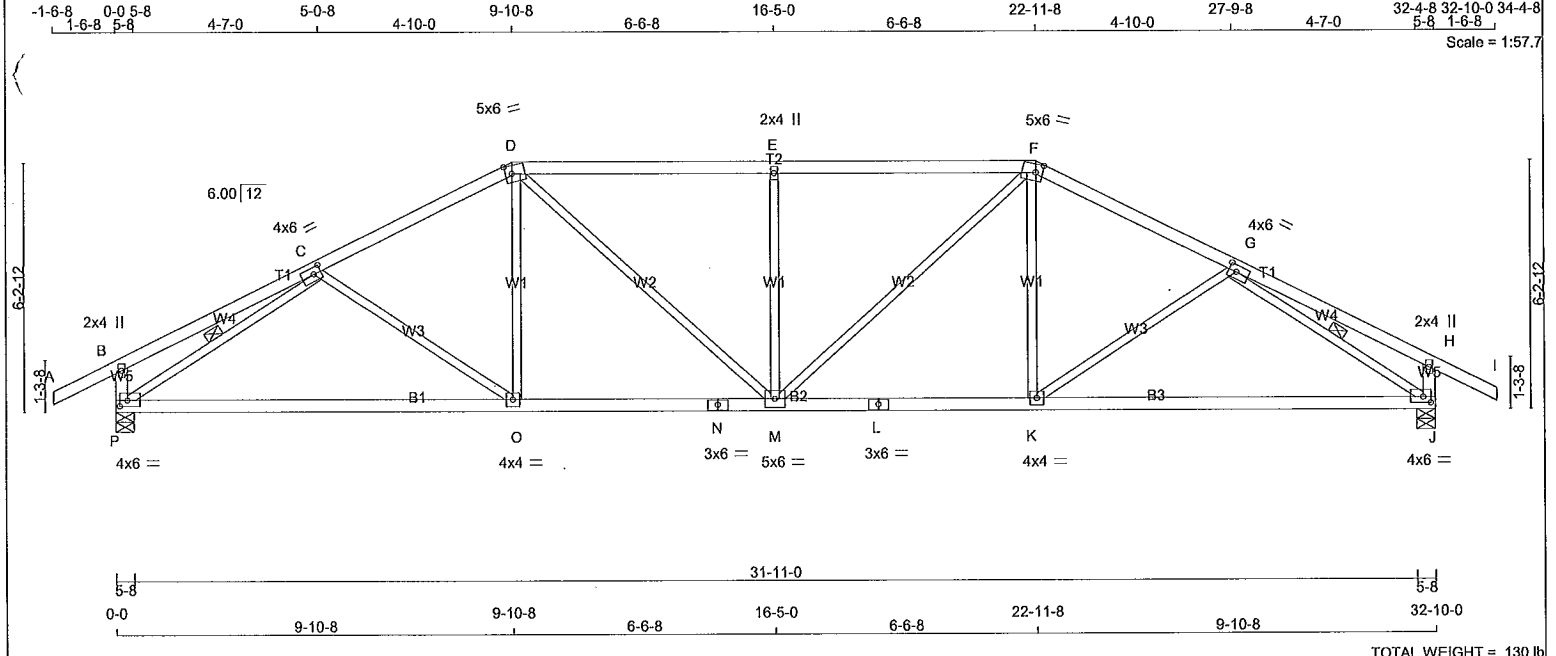
PLATE	GRIP(DRY) (PSI)	GRIP(WET) (PSI)	SHEAR (PLI)	SECTION (PLI)
MT20	618	354	1667	788 1987 1656

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

JSI GRIP= 0.89 (P) (INPUT = 0.90)
JSI METAL= 0.75 (N) (INPUT = 1.00)

NOTE: Lateral brace(s) shown shall be 1x4 for Part 9 design as per OBC 9.23.13.11, and no less than 2x4 for Part 4 design





TOTAL WEIGHT = 130 lb (MIF)

LUMBER
 N. L. G. A. RULES

CHORDS	SIZE	LUMBER	DESCR.
A - D	2x4	DRY No.2	SPF
D - F	2x4	DRY No.2	SPF
F - I	2x4	DRY No.2	SPF
P - B	2x4	DRY No.2	SPF
J - H	2x4	DRY No.2	SPF
P - N	2x4	DRY No.2	SPF
N - L	2x4	DRY No.2	SPF
L - J	2x4	DRY No.2	SPF
WEBS	2x3	DRY No.2	SPF
T			

DRY; SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMV+p	MT20	2.0	4.0		
C	TMWW-t	MT20	4.0	6.0	2.00	2.25
D	TTWW-m	MT20	5.0	6.0	2.50	2.00
E	TMW+w	MT20	2.0	4.0		
F	TTWW-m	MT20	5.0	6.0	2.50	2.00
G	TMWW-t	MT20	4.0	6.0	2.00	2.25
H	TMV+p	MT20	2.0	4.0		
J	BMVW1-t	MT20	4.0	6.0	1.75	2.25
K	BMWW-t	MT20	4.0	4.0		
L	BS-t	MT20	3.0	6.0		
M	BMWWW-t	MT20	5.0	6.0		
N	BS-t	MT20	3.0	6.0		
O	BMWW-t	MT20	4.0	4.0		
P	BMVW1-t	MT20	4.0	6.0	1.75	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	REQRD BRG
	VERT	HORZ	DOWN	HORZ		
P	1709	0	1709	0	5-8	1-14
J	1709	0	1709	0	5-8	1-14

UNFACTORED REACTIONS

JT	1ST LCASE COMBINED	MAX./MIN. COMPONENT REACTIONS				WIND	DEAD	SOIL
		SNOW	LIVE	PERM.LIVE	IN-SX			
P	1216	757 / 0	0 / 0	0 / 0	0 / 0	459 / 0	0 / 0	
J	1216	757 / 0	0 / 0	0 / 0	0 / 0	459 / 0	0 / 0	

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

BRACING
 TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.02 FT.
 MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR RIGID CEILING DIRECTLY APPLIED.

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

1 LATERAL BRACE(S) AT 1/2 LENGTH OF C-P, G-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.	C H O R D S				W E B S			
	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX LC1 (CSI (LC))	MAX UNBRACED LENGTH (FR-TO)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX UNBRACED LENGTH (FR-TO)	MEMB.
A-B	0 / 28	-78.0	-78.0	0.14 (1)	10.00	C-O	-90 / 42	0.06 (1)
B-C	0 / 19	-78.0	-78.0	0.29 (1)	10.00	O-D	0 / 245	0.07 (4)
C-D	-2111 / 0	-78.0	-78.0	0.29 (1)	4.43	D-M	0 / 518	0.12 (1)
D-E	-2257 / 0	-78.0	-78.0	0.52 (1)	4.02	M-E	-627 / 0	0.39 (1)
E-F	-2257 / 0	-78.0	-78.0	0.52 (1)	4.02	M-F	0 / 518	0.12 (1)
F-G	-2111 / 0	-78.0	-78.0	0.29 (1)	4.43	K-F	0 / 245	0.07 (4)
G-H	0 / 19	-78.0	-78.0	0.29 (1)	10.00	K-G	-90 / 42	0.06 (1)
H-I	0 / 28	-78.0	-78.0	0.14 (1)	10.00	P-C	-2370 / 0	0.61 (1)
P-B	-276 / 0	0.0	0.0	0.03 (1)	7.81	G-J	-2370 / 0	0.61 (1)
J-H	-276 / 0	0.0	0.0	0.03 (1)	7.81			
P-O	0 / 1943	-18.5	-18.5	0.58 (4)	10.00			
O-N	0 / 1874	-18.5	-18.5	0.59 (4)	10.00			
N-M	0 / 1874	-18.5	-18.5	0.59 (4)	10.00			
M-L	0 / 1874	-18.5	-18.5	0.59 (4)	10.00			
L-K	0 / 1874	-18.5	-18.5	0.59 (4)	10.00			
K-J	0 / 1943	-18.5	-18.5	0.58 (4)	10.00			

DESIGN CRITERIA

SPECIFIED LOADS:
 TOP CH. LL = 21.0 PSF
 DL = 6.0 PSF
 BOT CH. LL = 0.0 PSF
 DL = 7.4 PSF
 TOTAL LOAD = 34.4 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 OBC 2012, OBC 2018
 - CSA 086-09, CSA 086-14
 - TPIC 2011, TPIC 2014

(55 % OF 23.0 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 21.0 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = L/360 (1.09")
 CALCULATED VERT. DEFL.(LL) = L/999 (0.11")
 ALLOWABLE DEFL.(TL) = L/360 (1.09")
 CALCULATED VERT. DEFL.(TL) = L/999 (0.35")

CSI: TC=0.52/1.00 (D-E:1), BC=0.59/1.00 (K-M:4), WB=0.61/1.00 (G-J:1), SSI=0.25/1.00 (D-E:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

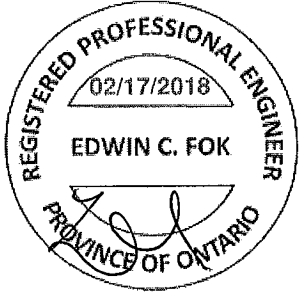
NAIL VALUES
 PLATE GRIP(DRY) SHEAR SECTION (PSI) (PLI) (PLI) (PLI)
 MAX MIN MAX MIN MAX MIN
 MT20 618 354 1667 788 1987 1656

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.89 (J) (INPUT = 0.90)
 JSI METAL= 0.60 (N) (INPUT = 1.00)

NOTE: Lateral brace(s) shown shall be 1x4 for Part 9 design as per OBC 9.23.13.11, and no less than 2x4 for Part 4 design

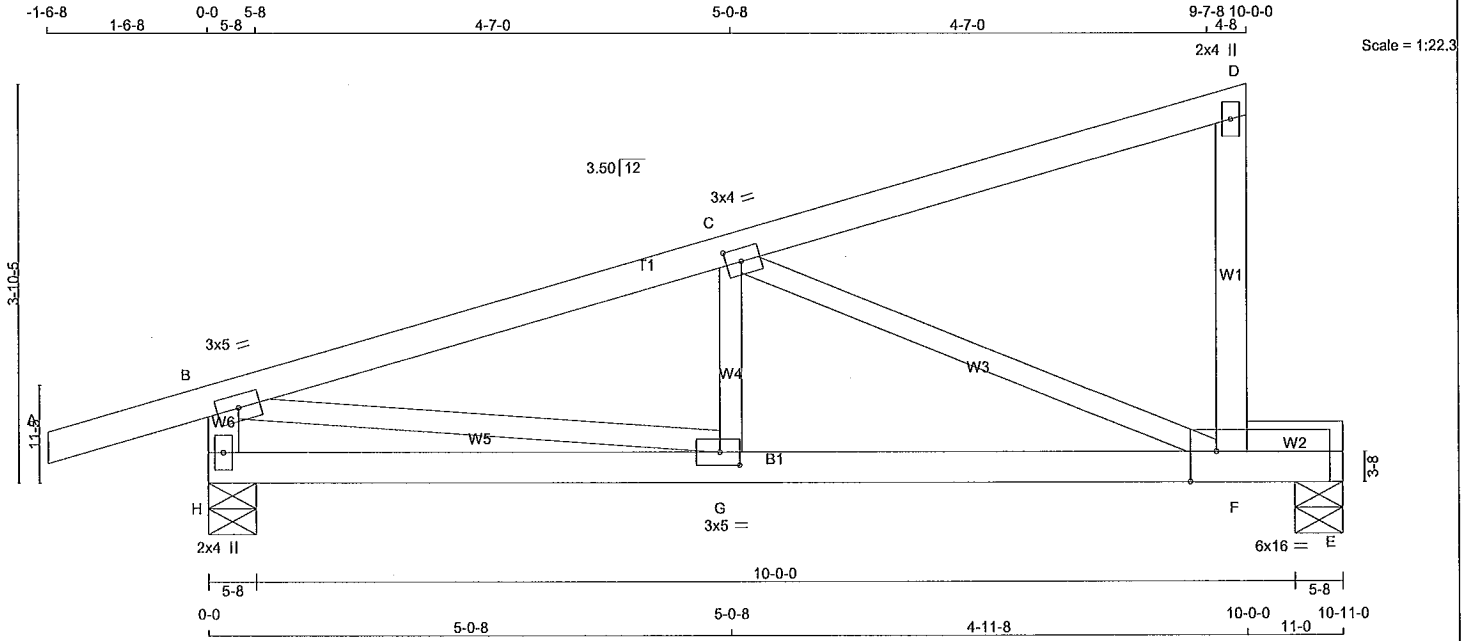


JOB NAME 291813	TRUSS NAME L2	QUANTITY 3	PLY 1	JOB DESC. TRUSS DESC.	DRWG NO.
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Alpa Roof Truss, Maple

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ID:84gOFYESM8s1JmDO6_uSGRyQWjP-bZoibR13tVT54w9ROW6fwMfYz67bVwC2UrJvA7zkCc



LUMBER				N. L. G. A. RULES	
CHORDS	SIZE	LUMBER	DESCR.	SPF	BEARINGS
A - D	2x4	DRY	No.2	SPF	FACTORED GROSS REACTION
F - D	2x4	DRY	No.2	SPF	JT VERT HORZ DOWN HORZ UPLIFT IN-SX IN-SX
H - B	2x4	DRY	No.2	SPF	H 647 0 647 0 0 5-8 1-8
H - E	2x4	DRY	No.2	SPF	E 458 0 458 0 0 5-8 1-8
F - E	2x4	DRY	No.2	SPF	
ALL WEBS EXCEPT	2x3	DRY	No.2	SPF	

SEASONED LUMBER.

PLATES (table is in inches)

JT TYPE	PLATES	W	LEN	Y	X
B	TMVW-1	MT20	3.0	5.0	
C	TMWW-1	MT20	3.0	4.0	1.50 1.75
D	TMV+p	MT20	2.0	4.0	
F	BMVWW-t	MT20	6.0	16.0	Edge 3.00
G	BMWW-1	MT20	3.0	5.0	1.50 2.25
H	BMV1+p	MT20	2.0	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

JT	FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG	REQRD BRG
	VERT	HORZ	DOWN	HORZ		
H	647	0	647	0	5-8	1-8
E	458	0	458	0	5-8	1-8

UNFACTORED REACTIONS

JT	1ST LCASE COMBINED	MAX./MIN. COMPONENT REACTIONS					SOIL
		SNOW	LIVE	PERM.LIVE	WIND	DEAD	
H	459	294 / 0	0 / 0	0 / 0	0 / 0	165 / 0	0 / 0
E	328	192 / 0	0 / 0	0 / 0	0 / 0	136 / 0	0 / 0

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 6.13 FT. MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

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

LOADING

TOTAL LOAD CASES: (4)

MEMB.	MAX. FACTORED FORCE (LBS)	CHORDS			WEBS			
		FACTORED VERT. LOAD (PLF)	LC1 MAX	CS1 (LC)	MEMB. MAX. FORCE (LBS)	FACTORED MAX. CS1 (LC)	UNBRAC LENGTH	
FR-TO		FROM	TO		FR-TO			
A-B	0 / 17	-78.0	-78.0	0.14 (1)	10.00	G-C	0 / 134	0.05 (4)
B-C	-861 / 0	-78.0	-78.0	0.33 (1)	6.13	C-F	-911 / 0	0.42 (1)
C-D	-13 / 0	-78.0	-78.0	0.30 (1)	6.25	B-G	0 / 845	0.19 (1)
F-D	-148 / 0	0.0	0.0	0.03 (1)	7.81			
H-B	-627 / 0	0.0	0.0	0.06 (1)	7.81			
H-G	0 / 0	-18.5	-18.5	0.20 (4)	10.00			
G-F	0 / 838	-18.5	-18.5	0.70 (1)	10.00			
F-E	0 / 0	-18.5	-18.5	0.23 (1)	10.00			

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH. LL = 21.0 PSF
DL = 6.0 PSF
BOT CH. LL = 0.0 PSF
DL = 7.4 PSF
TOTAL LOAD = 34.4 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 OBC 2012, OBC 2018
- CSA 086-09, CSA 086-14
- TPIC 2011, TPIC 2014

(55 % OF 23.0 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 21.0 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/583 (0.23")

CSI: TC=0.33/1.00 (B-C:1), BC=0.70/1.00 (F-G:1), WB=0.42/1.00 (C-F:1), SSI=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

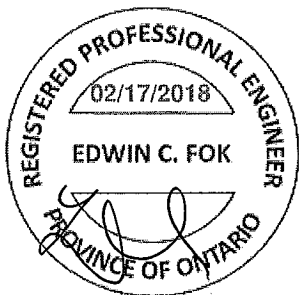
PLATE	GRIP(DRY) SHEAR (PSI)		SECTION (PLI)	
	MAX	MIN	MAX	MIN
MT20	618	354	1667	788

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP = 0.86 (G) (INPUT = 0.90)
JSI METAL = 0.28 (B) (INPUT = 1.00)

NOTE: Lateral brace(s) shown shall be 1x4 for Part 9 design as per OBC 9.23.13.11, and no less than 2x4 for Part 4 design



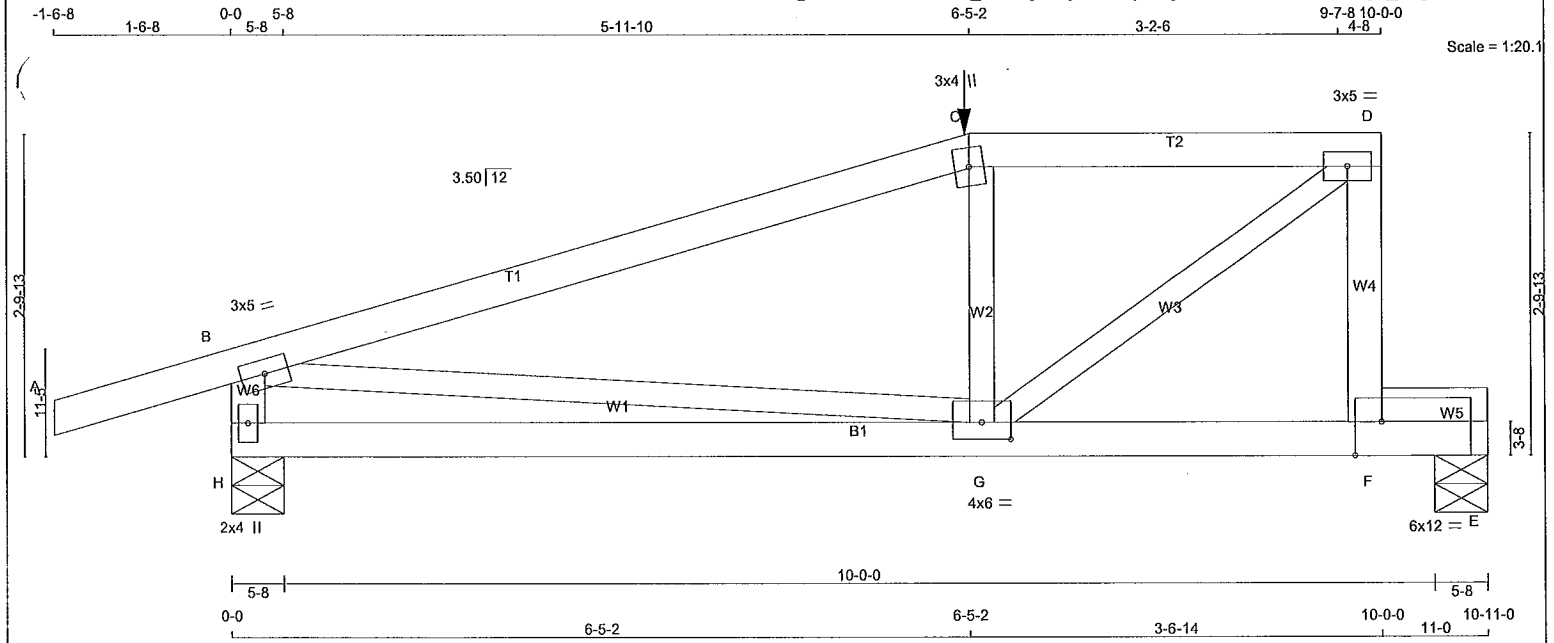
A-18023576

JOB NAME 291813	TRUSS NAME L1	QUANTITY 1	PLY 1	JOB DESC. TRUSS DESC.	DRWG NO.
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Alpa Roof Truss, Maple

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ID:84gOFYESM8s1JmDO6_uSGRyQWjP-TXSxjMjby3Ymxi3P8mdXSCRp9yb_j07g1Qw0MzkCdS



TOTAL WEIGHT = 40 lb

LUMBER
N. L. G. A. RULES

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

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

PLATES (table is in inches)

JT TYPE	PLATES	W	LEN	Y	X
B	TMVW-t	MT20	3.0	5.0	
C	TTW+m	MT20	3.0	4.0	
D	TMVW-t	MT20	3.0	5.0	
F	BMVW-t	MT20	6.0	12.0	Edge 2.75
G	BMVWW-t	MT20	4.0	6.0	1.75 3.00
H	BMV1+p	MT20	2.0	4.0	

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

HANGERS NOTES
1) SPECIAL HANGER(S) OR CONNECTION(S) REQUIRED TO SUPPORT CONCENTRATED LOAD(S) 41.8 lbs FACTORED DOWN AT 6-5-2 ON TOP CHORD. DESIGN FOR UNSPECIFIED CONNECTION(S) IS DELEGATED TO THE BUILDING DESIGNER.

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		
H	667	0	667	0	5-8	1-8
E	551	0	551	0	5-8	1-8

UNFACTORED REACTIONS

JT	1ST LCASE COMBINED	MAX./MIN. COMPONENT REACTIONS					
		SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
H	473	305 / 0	0 / 0	0 / 0	0 / 0	168 / 0	0 / 0
E	392	242 / 0	0 / 0	0 / 0	0 / 0	150 / 0	0 / 0

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

BRACING
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 5.94 FT. MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

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

LOADING
TOTAL LOAD CASES: (4)

MEMB.	CHORDS			WEBS		
	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	LC1 MAX CSI (LC)	MAX. UNBRAC LENGTH	MEMB. FORCE (LBS)	MAX. FACTORED CSI (LC)
FR-TO		FROM TO		FR-TO		
A-B	0 / 17	-78.0	-78.0 0.15 (1)	10.00	G-C	-243 / 0 0.04 (1)
B-C	-676 / 0	-78.0	-78.0 0.65 (1)	5.94	G-D	0 / 787 0.19 (1)
C-D	-630 / 0	-78.0	-78.0 0.19 (1)	6.25	B-G	0 / 652 0.16 (1)
F-D	-610 / 0	0.0	0.0 0.09 (1)	7.81		
H-B	-627 / 0	0.0	0.0 0.07 (1)	7.81		
H-G	0 / 0	-18.5	-18.5 0.25 (4)	10.00		
G-F	0 / 0	-18.5	-18.5 0.70 (1)	10.00		
F-E	0 / 0	-96.5	-96.5 0.29 (1)	10.00		

FACTORED CONCENTRATED LOADS (LBS)

JT	LOC.	LC1	MAX-	MAX+	FACE	DIR.	TYPE
C	6-5-2	-42	-42	-	FRONT	VERT	TOTAL

DESIGN CRITERIA

SPECIFIED LOADS:
TOP CH. LL = 21.0 PSF
DL = 6.0 PSF
BOT CH. LL = 0.0 PSF
DL = 7.4 PSF
TOTAL LOAD = 34.4 PSF

SPACING = 24.0 IN. C/C

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

GIRDER TYPE: CPrimeHip
LEFT SETBACK = 6-5-2
RIGHT SETBACK = 0-0
END SETBACK = 2-0-0
END WALL WIDTH = 0-0
CORNER FRAMING TYPE: CONVENTIONAL
END JACK TYPE: CONVENTIONAL
APPLIED TO FRONT SIDE
- ADDTL LOADS BASED ON 55 % OF GSL.

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

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

(55 % OF 23.0 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 21.0 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = L/360 (0.36")
CALCULATED VERT. DEFL.(LL) = L/999 (0.08")
ALLOWABLE DEFL.(TL) = L/360 (0.36")
CALCULATED VERT. DEFL.(TL) = L/897 (0.15")

CSI: TC=0.65/1.00 (B-C:1), BC=0.70/1.00 (F-G:1), WB=0.19/1.00 (D-G:1), SSI=0.24/1.00 (E-F:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

NAIL VALUES

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

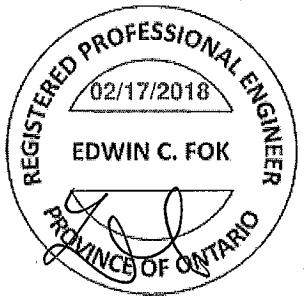
PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.89 (G) (INPUT = 0.90)
JSI METAL= 0.24 (F) (INPUT = 1.00)

A-18023575

NOTE: Lateral brace(s) shown shall be 1x4 for Part 9 design as per OBC 9.23.13.11, and no less than 2x4 for Part 4 design



STRACON ENGINEERING INC.

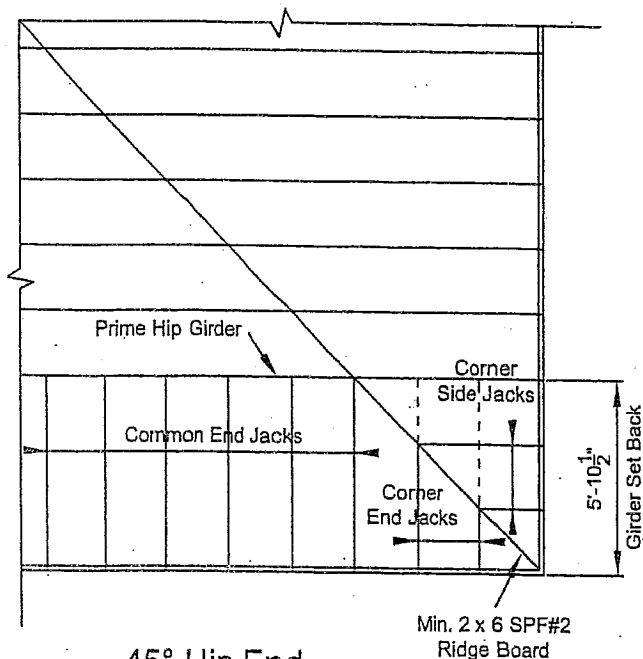
LUMBER SPECIFICATION

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

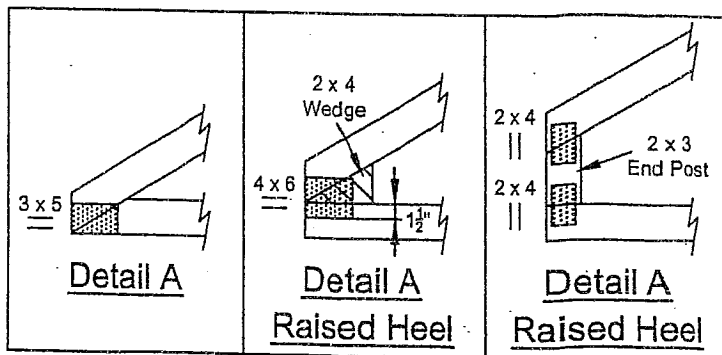
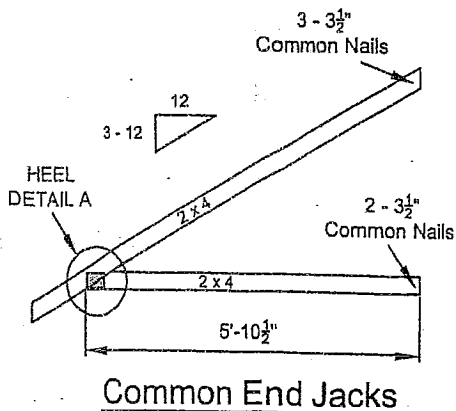
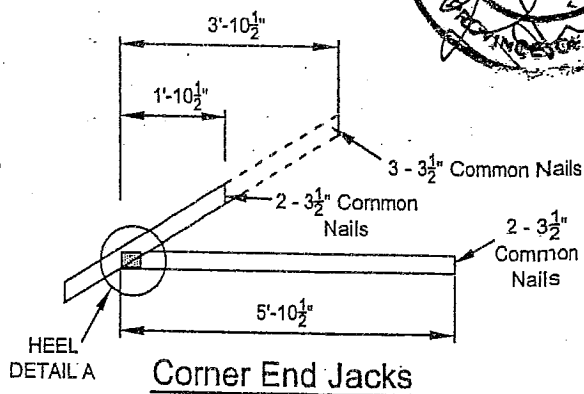
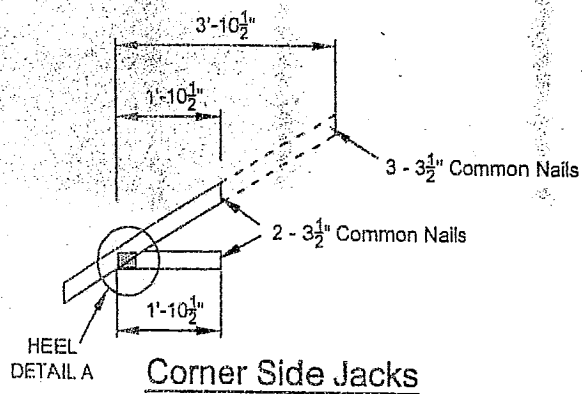
DESIGN LOAD

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



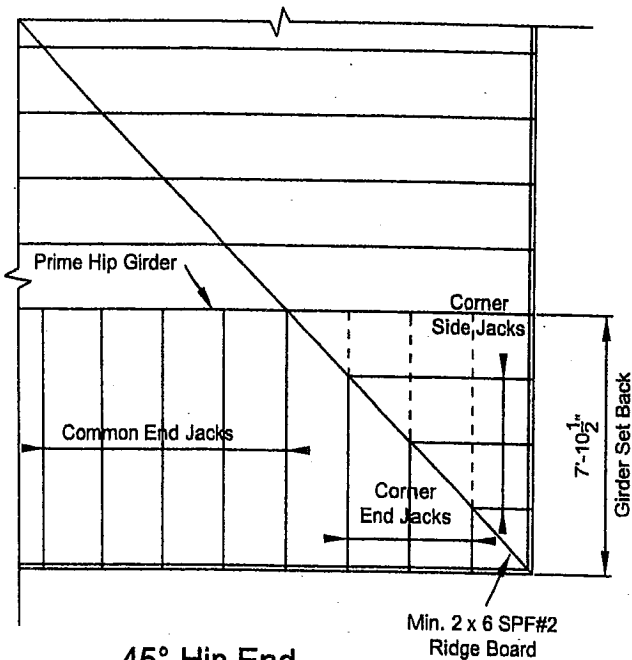
45° Hip End



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

CS-51008

STRACON ENGINEERING INC.



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

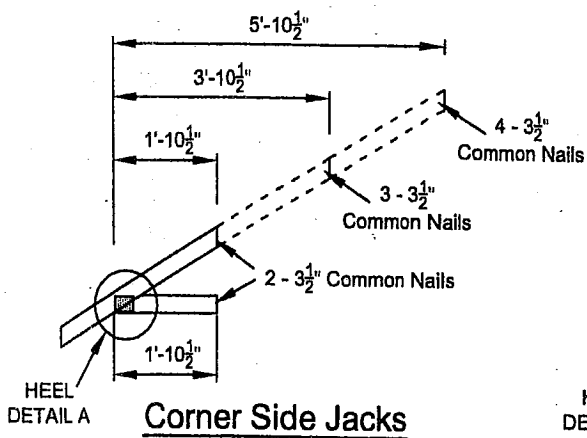
DESIGN LOAD

TOP CHORD SNOW LOAD : 34.8 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.

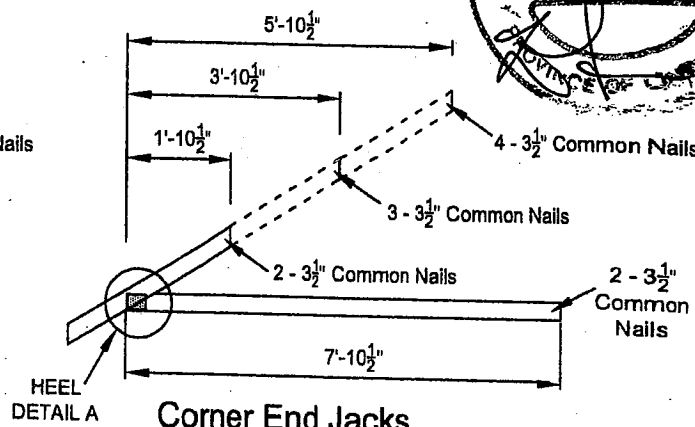
TOTAL LOAD : 44.8 P.S.F

45° Hip End

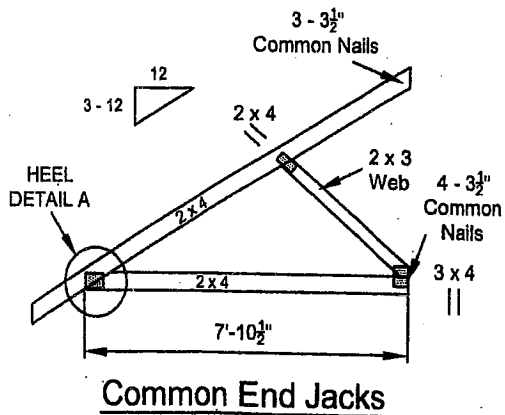
Min. 2 x 6 SPF#2
Ridge Board



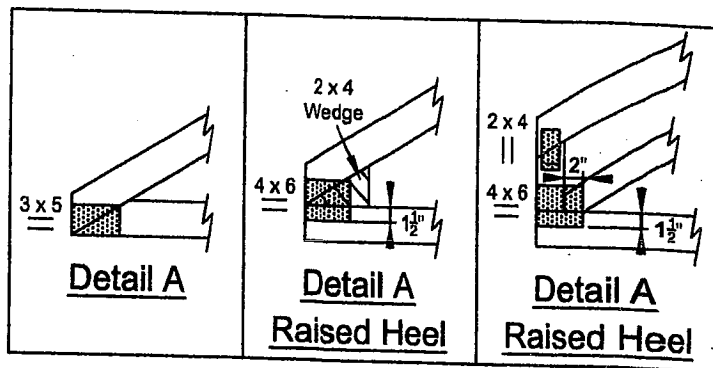
Corner Side Jacks



Corner End Jacks



Common End Jacks



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

CS-71008N



LUS – Double Shear Joist Hangers

All LUS hangers have double shear nailing. This patented innovation distributes the load through two points on each joist nail for greater strength. It also allows the use of fewer nails, faster installation and the use of common nails for all connections.

Material: 18 gauge

Finish: G90 galvanized

Design:

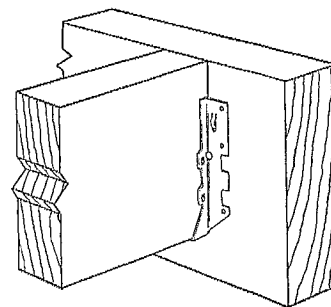
- Factored resistances are in accordance with CSA O86-14.
- Uplift resistances have been increased 15%. No further increase is permitted.
- Wood shear is not considered in the factored resistances given. The specifier must ensure that the joist and header capacities are capable of withstanding these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

Installation:

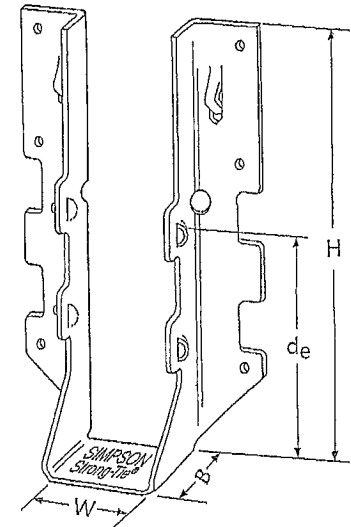
- Use all specified fasteners.
- Nails: 16d = 0.162" dia. x 3½" long common wire, 10d = 0.148" x 3" long common wire.
- Double shear nails must be driven at an angle through the joist or truss into the header to achieve the table loads.
- Not designed for welded or nailer applications.

Options:

- These hangers cannot be modified



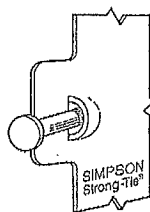
Typical LUS Installation



LUS28

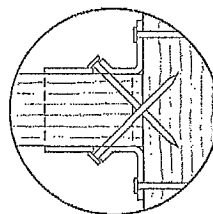
Model No.	Ga.	Dimensions (In.)				Fasteners		Factored Resistance (lb.)			
		W	H	B	d _e ¹	Face	Joist	D.Fir-L		S-P-F	
								Uplift (K _b =1.15)	Normal (K _b =1.00)	Uplift (K _b =1.15)	Normal (K _b =1.00)
LUS24	18	1¾	3½	1¾	1 11/16	(4) 10d	(2) 10d	710	1630	645	1155
LUS24-2	18	3½	3½	2	1 11/16	(4) 16d	(2) 16d	835	2020	590	1435
LUS26	18	1¾	4¾	1¾	3%	(4) 10d	(4) 10d	1420	2170	1290	1630
LUS26-2	18	3½	4¾	2	4	(4) 16d	(4) 16d	1720	2595	1545	1920
LUS26-3	18	4%	4¾	2	3¾	(4) 16d	(4) 16d	1720	2595	1545	2340
LUS28	18	1¾	6%	1¾	3¾	(6) 10d	(6) 10d	1420	2520	1290	1790
LUS28-2	18	3½	7	2	4	(6) 16d	(4) 16d	1720	3325	1545	2575
LUS28-3	18	4%	6¼	2	3¾	(6) 16d	(4) 16d	1720	3325	1545	2375
LUS210	18	1¾	7 11/16	1¾	3¾	(8) 10d	(4) 10d	1420	2785	1290	2210
LUS210-2	18	3½	9	2	6	(8) 16d	(6) 16d	2580	4500	2320	3195
LUS210-3	18	4%	8 11/16	2	5¼	(8) 16d	(6) 16d	2580	3345	2320	2375

1. d_e is the distance from the seat of the hanger to the highest joist nail.

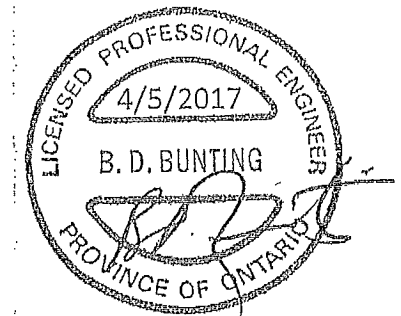


Dome Double Shear Nailing prevents tabs breaking off (available on some models).

U.S. Patent 5,603,580



Double Shear Nailing Top View.



This technical bulletin is effective until June 30, 2019, and reflects information available as of March 1, 2017. This information is updated periodically and should not be relied upon after June 30, 2019. Contact Simpson Strong-Tie for current information and limited warranty or see strongtie.com.

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T-SPECLUS17-3/17 exp. 6/19

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HHUS – Double Shear Joist Hangers

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

Material: 14 gauge

Finish: G90 galvanized

Design:

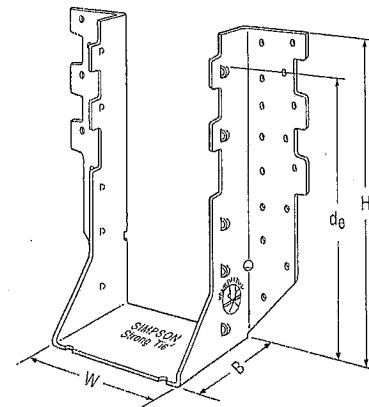
- Factored resistances are in accordance with CSA O86-14.
- Uplift resistances have been increased 15%. No further increase is permitted.
- Wood shear is not considered in the factored resistances given. The specifier must ensure that the joist and header capacities are capable of withstanding these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

Installation:

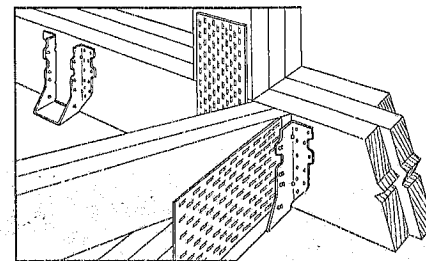
- Use all specified fasteners
- Nails: 16d = 0.162" dia. x 3 1/2" long common wire
- Double shear nails must be driven at an angle through the joist or truss into the header to achieve the table loads
- Not designed for welded or nailer applications

Options:

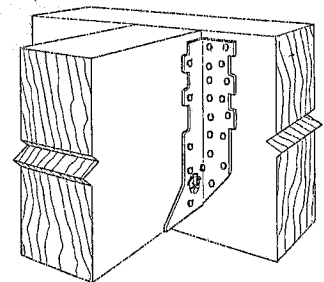
- See current catalogue for options



HHUS410



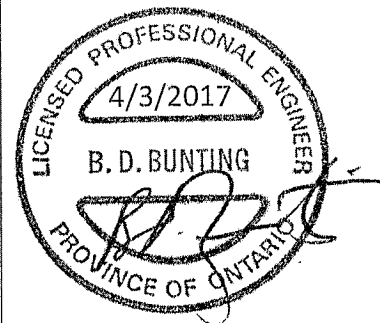
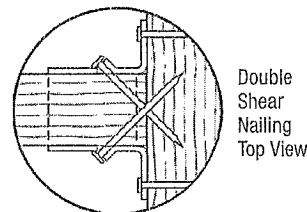
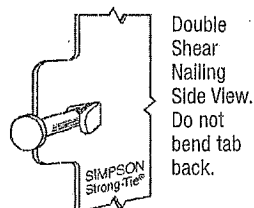
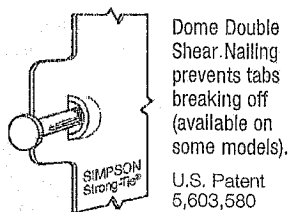
Typical HHUS Installation (Truss Designer to provide fastener quantity for connecting multiple members together)



Typical HHUS Installation

Model No.	Ga.	Dimensions (in.)				Fasteners		Factored Resistance (lb.)			
		W	H	B	d ₆ ¹	Face	Joist	D.Fir-L		S-P-F	
								Uplift (K _p =1.15)	Normal (K _p =1.00)	Uplift (K _p =1.15)	Normal (K _p =1.00)
HHUS26-2	14	3 5/16	5 15/16	3	3 15/16	(14) 16d	(6) 16d	2850	7335	2065	5205
HHUS28-2	14	3 9/16	7 7/32	3	6 3/32	(22) 16d	(8) 16d	3765	8940	2675	6345
HHUS210-2	14	3 9/16	9 9/32	3	8	(30) 16d	(10) 16d	4745	9660	4310	7000
HHUS210-3	14	4 1 1/16	9	3	7 15/16	(30) 16d	(10) 16d	4745	10545	4310	7485
HHUS210-4	14	4 6 1/8	8 29/32	3	7 27/32	(30) 16d	(10) 16d	4745	10545	4310	7485
HHUS46	14	3 3/8	5 15/32	3	3 15/16	(14) 16d	(6) 16d	2540	7335	2065	5205
HHUS48	14	3 3/8	7 1/8	3	6 1/8	(22) 16d	(8) 16d	3765	8945	2267	6345
HHUS410	14	3 3/8	9	3	8	(30) 16d	(10) 16d	4745	9855	4310	7000
HHUS5.50/10	14	5 1/2	9	3	8	(30) 16d	(10) 16d	4745	10545	4310	7485
HHUS7.25/10	14	7 1/4	9	3 5/16	7 29/32	(30) 16d	(10) 16d	4745	10770	4310	7650

1. d₆ is the distance from the seat of the hanger to the highest joist nail.



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T-SPECHHUS17 3/17 exp. 6/19

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TC – Truss Connectors



The TC truss connector is an ideal connector for scissor trusses and can allow horizontal movement up to 1¼". The TC also attaches plated trusses to top plates or sill plates to resist uplift forces. Typically used on one or both ends of truss as determined by the building designer.

Material: 16 gauge

Finish: G90 galvanized

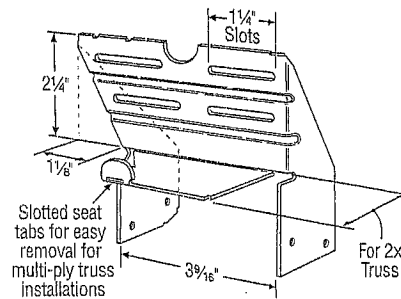
Design: Factored resistances are in accordance with CSA 086-14

Installation:

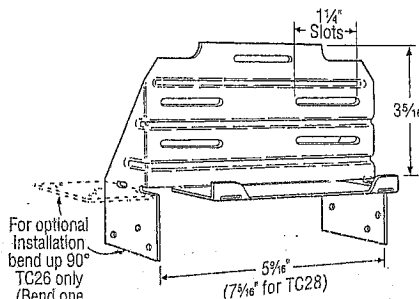
- Use all specified fasteners.
- Nails: 10d = 0.148" dia. x 3" long common wire, 10d x 1½" = 0.148" dia. x 1½" long.
- Drive 10d nails into the truss at the inside end of the slotted holes (inside end is towards the centre of the truss) and clinch on the back side. Do not seat these nails into the truss—allow room under the nail head for movement of the truss with respect to the wall.

Optional TC Installation:

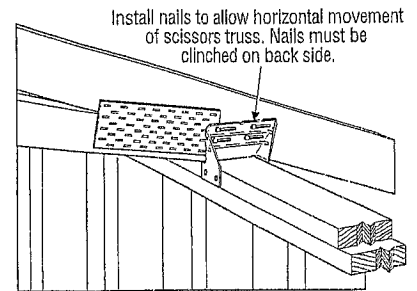
- Bend one flange up 90°. Drive specified nails into the top and face of the top plates or install Titen® screws into the top and face of masonry wall. See optional load tables and installation details.



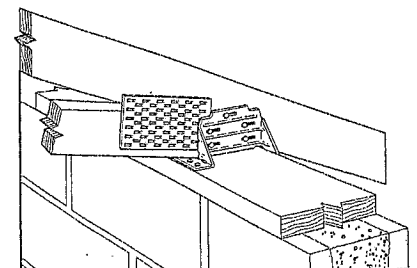
TC24
U.S. Patent 4,932,173



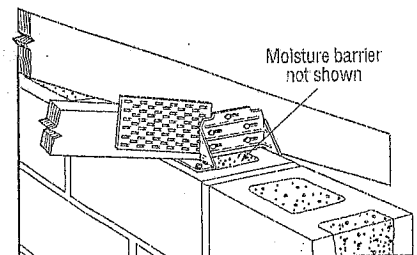
TC26
(TC28 Similar)



Typical TC24 Installation



Optional TC26 Installation for Grouted Concrete Block using a Wood Nailer (8", 10", 12" Wall Installation Similar)



Optional TC26 Installation for Grouted Concrete Block using Titen Screws

Model No.	Fasteners		Factored Resistance	
	Truss	Wall Plates	D.Fir-L	S-P-F
			Uplift (K _p =1.15)	Uplift (K _p =1.15)
lb.	lb.			
TC24	(4) 10d	(4) 10d	605	430
TC26	(5) 10d	(6) 10d	1015	720
TC28	(5) 10d	(6) 10d	1015	720

Optional TC Installation Table

Model No.	Fasteners		Factored Resistance	
	Truss	Wall Plates	D.Fir-L	S-P-F
			Uplift (K _p =1.15)	Uplift (K _p =1.15)
lb.	lb.			
TC26	(5) 10d	(6) 10d x 1½"	810	660
	(5) 10d	(6) 10d	930	660

1. Factored resistances have been increased 15% for earthquake or wind loading; no further increase allowed; reduce where other loads govern.
2. Grout strength is 15 MPa minimum.
3. Optional TC26 installation with 10d nails requires minimum 3" top plate thickness.
4. TC26 fastened to grouted concrete block with (6) - ¾" x 2¼" Titen screws has a factored uplift resistance of 275 lb.



LIMIT STATES DESIGN

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T-SPECTC17 3/17 exp. 6/19

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