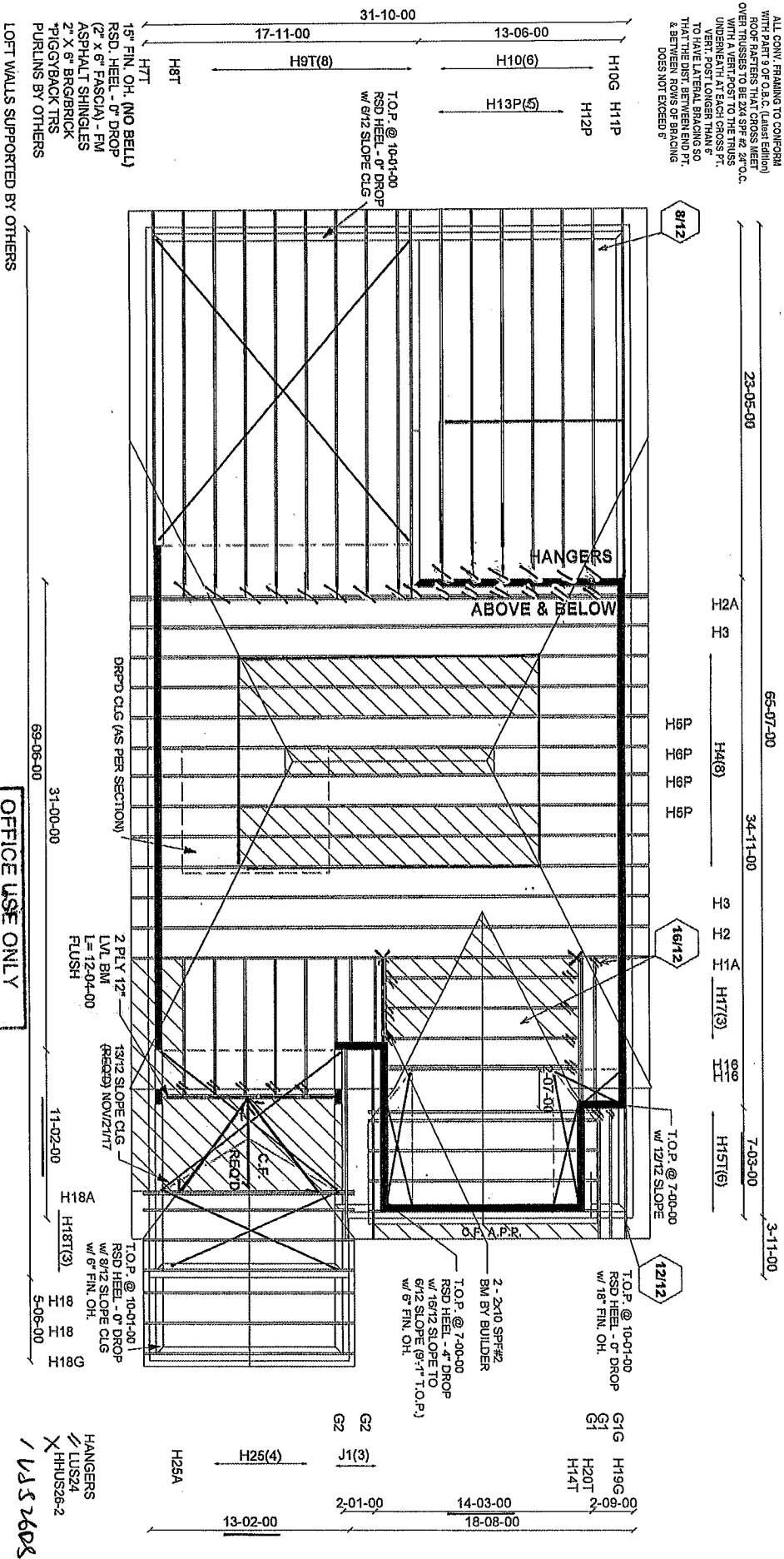


ALPA-BARRIE

ALL CON. FRAMING TO CONFORM WITH 2015 IBC. ALL TRUSSES TO BE 2X4 SPACED @ 24" O.C. WITH A VENT POST TO THE TRUSS UNDERNEATH AT EACH CROSS FT. VERT. POST LONGER THAN 6' TO HAVE LATERAL BRACING SO THAT IT DOES NOT EXCEED 6' DOES NOT EXCEED 6'



OFFICE USE ONLY
ENGINEERED FROM
A-18023042 TO
A-18023071

CONVENTIONAL
FRAMING BY
OTHERS



Job Track: 45147
Layout ID: 292566
Plan Log: 95914

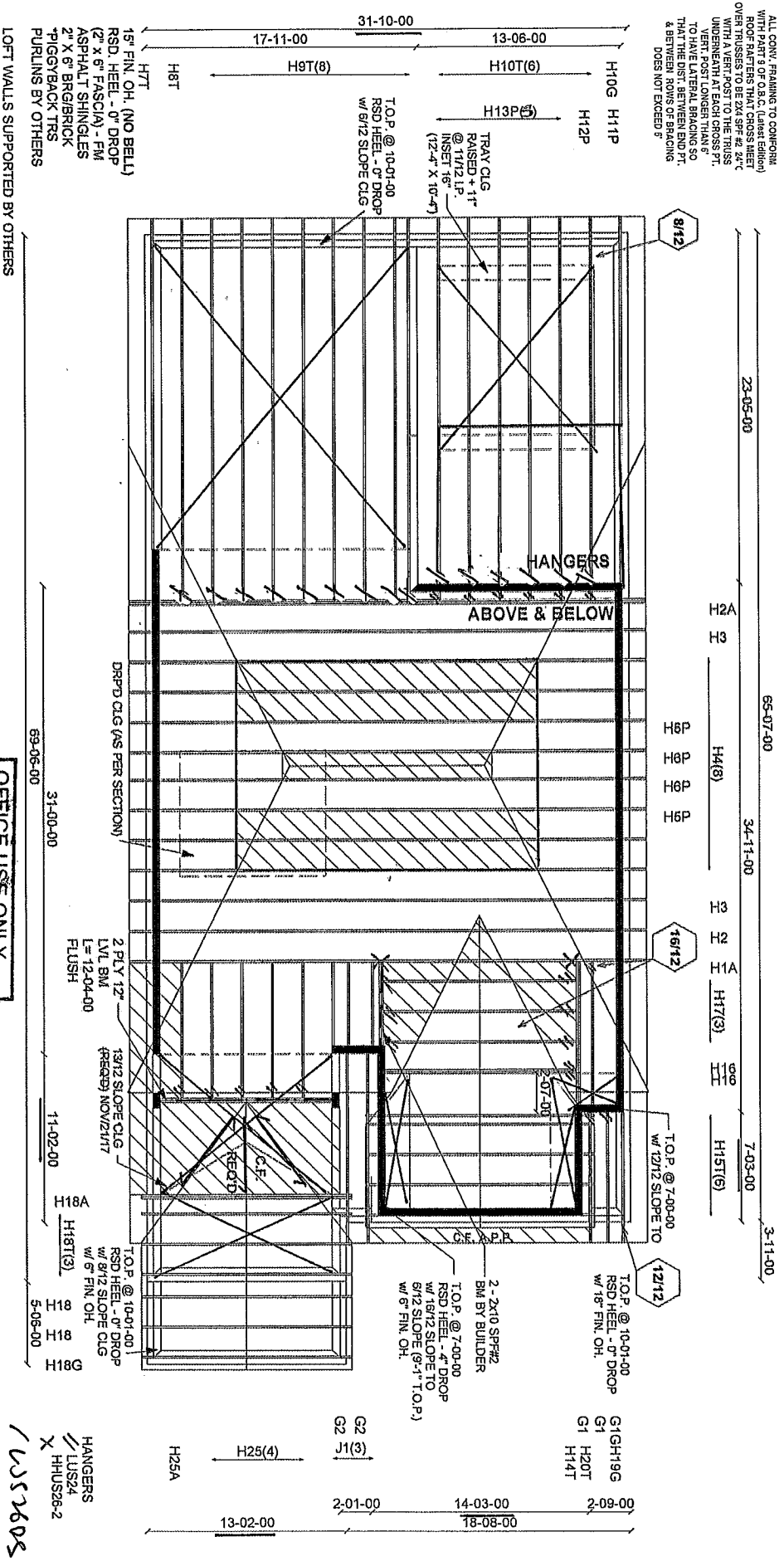
Builder / Location: GOLD PARK HOMES / VAUGHAN
Project: PINE VALLEY
Date: 1/16/2018
Designer: AMANDA

Model / Elevator: 4000 REV1 / A
THESE DRAWINGS CONSTITUTE THE PROPERTY OF ALPA ROOF TRUSSES INC. SHALL NOT BE REPRODUCED, PUBLISHED, OR REDISTRIBUTED IN ANY MANNER OR UTILIZED FOR ANY PURPOSE OTHER THAN THE MANUFACTURE OF TRUSSES BY ALPA ROOF TRUSSES INC. AND WILL BE RETRACTED BY ALPA ROOF TRUSSES INC IF UTILIZED FOR ANY OTHER PURPOSE.

HANGERS
X LUS24
X HUS26-2
/ VJ52608

ALPA-BARRIE

ALL CONV. FRAMING TO COMFORM WITH PART 1 OF O.S.C. (LATEST EDITION) WITH TRUSSES TO BE 2X 8 SP# 2, 24" C WITH A VERT POST TO THE TRUSS UNDERNEATH AT EACH CROSS PT. VERT. POST LONGER THAN 6' TO HAVE LATERAL BRACING SO THAT THE DIST. BETWEEN END PT. & BETWEEN JOINTS OF BRACINGS DOES NOT EXCEED 9'



OFFICE USE ONLY
ENGINEERED FROM
A-18023042 TO
A-18023072

CONVENTIONAL FRAMING BY OTHERS



Job Track: 45147
Layout ID: 292567
Plan Log: 95914

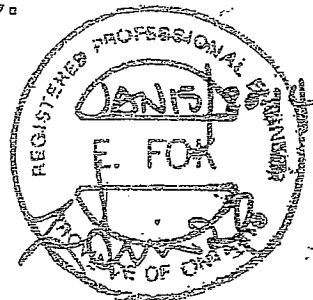
Builder / Location: GOLD PARK HOMES / VAUGHAN
Project: PINE VALLEY
Date: 1/16/2018
Designer: AMANDA

Model / Elevation: 4000 REV1 / A OPT TRAY
THESE DRAWINGS CONSTITUTE THE PROPERTY OF ALPA ROOF TRUSSES INC., SHALL NOT BE REPRODUCED, PUBLISHED, OR REDISTRIBUTED IN ANY MANNER OR UTILIZED FOR ANY PURPOSE OTHER THAN THE MANUFACTURE OF TRUSSES BY ALPA ROOF TRUSSES INC AND WILL BE RETRACTED BY ALPA ROOF TRUSSES INC IF UTILIZED FOR ANY OTHER PURPOSE.

1/25/2008

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 manufacture'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.

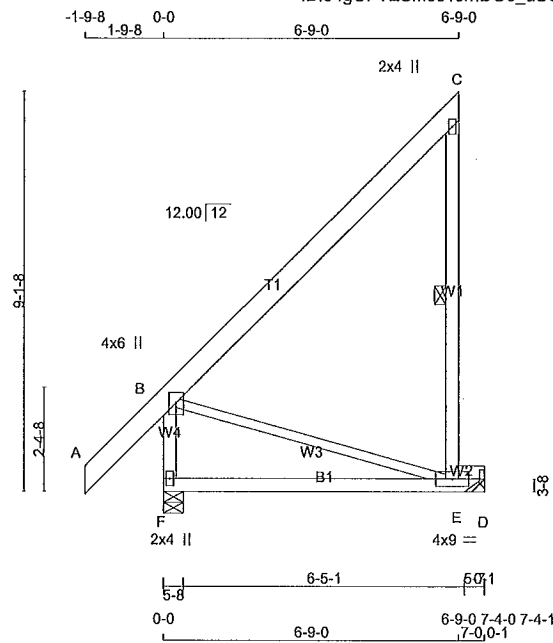
January 15, 2014

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
292566	G1	2	1	TRUSS DESC.	

Alpa Roof Truss, Maple

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ID:84gOFYESM8s1JmDO6_uSGRyQWJP-6rTb9I_ZlBxc0cys?EYSESCJlnckXrUZ9q_j_7zkzE9



TOTAL WEIGHT = 2 X 48 = 96 lb [M]

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

PLATES (table is in inches)						
JT	TYPE	PLATES	W	LEN	Y	X
B	TMVW+p	MT20	4.0	6.0	2.75	2.00
C	TMV+p	MT20	2.0	4.0		
E	BMVWW-t	MT20	4.0	9.0		
F	BMV1+p	MT20	2.0	4.0		

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

JT	FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG	REQRD BRG
	VERT	HORZ	DOWN	HORZ		
F	504	0	504	0	5-8	1-8
D	310	0	310	0	HANGER BY OTHERS	MIN. SEAT SIZE: 1-8

VALUE IN PARENTHESIS INDICATES EFFECTIVE BEARING LENGTH

UNFACTORED REACTIONS

JT	1ST LCASE		MAX/MIN. COMPONENT REACTIONS		WIND	DEAD	SOIL
	COMBINED	SNOW	LIVE	PERM.LIVE			
F	357	235 / 0	0 / 0	0 / 0	0 / 0	122 / 0	0 / 0
D	222	130 / 0	0 / 0	0 / 0	0 / 0	92 / 0	0 / 0

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

BRACING

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

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

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

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

LOADING

TOTAL LOAD CASES: (4)

MEMB.	CHORDS		WEBS		MEMB.	FACTORED	
	MAX. FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. UNBRACED LENGTH (LC)	MAX. UNBRACED LENGTH (LC)		MAX. FORCE (LBS)	MAX. CSI (LC)
FR-TO		FROM TO			FR-TO		
A-B	0 / 54	-78.0 -78.0 0.11 (1)	10.00	10.00	B-E	0 / 0	0.00 (1)
B-C	0 / 0	-78.0 -78.0 0.30 (1)	10.00				
E-C	-263 / 0	0.0 0.0 0.09 (1)	6.25				
F-B	-415 / 0	0.0 0.0 0.05 (1)	7.81				
F-E	0 / 0	-18.5 -18.5 0.33 (4)	10.00				
E-D	0 / 0	-18.5 -18.5 0.10 (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)= 1/360 (0.24")
CALCULATED VERT. DEFL.(LL) = 1/999 (0.07")
ALLOWABLE DEFL.(TL)= 1/360 (0.24")
CALCULATED VERT. DEFL.(TL) = 1/374 (0.24")

CSI: TC=0.30/1.00 (B-C:1), BC=0.33/1.00 (E-F:4), WB=0.00/1.00 (B-E:1), SSI=0.12/1.00 (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)
MT20	618	354 1667 788 1987 1656

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.49 (E) (INPUT = 0.90)
JSI METAL= 0.20 (E) (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



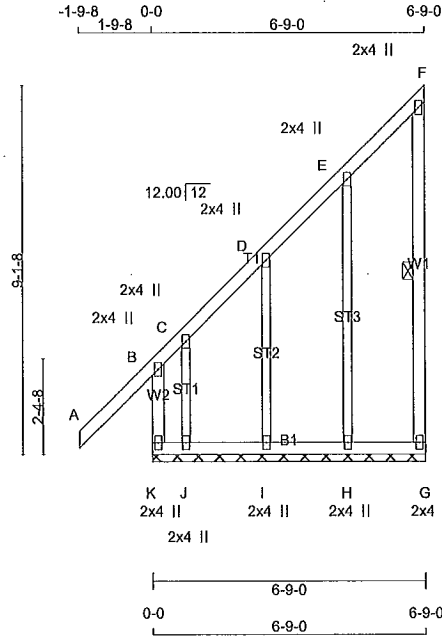
A-18023042

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
292566	G1G	1	1	TRUSS DESC.	

Alpa Roof Truss, Maple

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Scale = 1:57.0

TOTAL WEIGHT = 45 lb

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

GABLE STUDS SPACED AT 2-0-0 OC.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMV+p	MT20	2.0	4.0		
C, D, E						
C	TMW+w	MT20	2.0	4.0		
F	TMV+p	MT20	2.0	4.0		
G	BMV1+p	MT20	2.0	4.0		
H, I, J						
H	BMW1+w	MT20	2.0	4.0		
K	BMV1+p	MT20	2.0	4.0		

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

BEARINGS
THIS TRUSS DESIGNED FOR CONTINUOUS BEARINGS.
THIS TRUSS REQUIRES RIGID SHEATHING ON EXPOSED FACE.

PROVIDE ANCHORAGE AT BEARING JOINT J FOR 150 LBS. FACTORED UPLIFT BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S).

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

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

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

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. LC1 (LC)
FR-TO		FROM TO			FR-TO		
K-B	-336 / 0	0.0	0.0	0.04 (1)	7.81	H-E	-165 / 0
A-B	0 / 52	-78.0	-78.0	0.20 (1)	10.00	I-D	-161 / 0
B-C	-116 / 0	-78.0	-78.0	0.17 (1)	6.25	J-C	0 / 55
C-D	-4 / 0	-78.0	-78.0	0.04 (1)	10.00		
D-E	-5 / 0	-78.0	-78.0	0.04 (1)	10.00		
E-F	-9 / 0	-78.0	-78.0	0.04 (1)	10.00		
G-F	-67 / 0	0.0	0.0	0.01 (1)	6.25		
K-J	0 / 5	-18.5	-18.5	0.04 (1)	10.00		
J-I	0 / 7	-18.5	-18.5	0.02 (4)	10.00		
I-H	0 / 3	-18.5	-18.5	0.02 (4)	10.00		
H-G	0 / 0	-18.5	-18.5	0.02 (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

CSI: TC=0.20/1.00 (A-B:1), BC=0.04/1.00 (J-K:1), WB=0.15/1.00 (E-H:1), SSI=0.10/1.00 (B-C:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

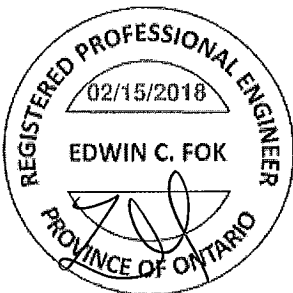
NAIL VALUES
PLATE GRIP(DRY) SHEAR SECTION (PSI) (PLI) (PLI)
MAX MIN MAX MIN MAX MIN
MT20 618 354 1667 788 1987 1656

PLATE PLACEMENT TOL. = 0.250 inches

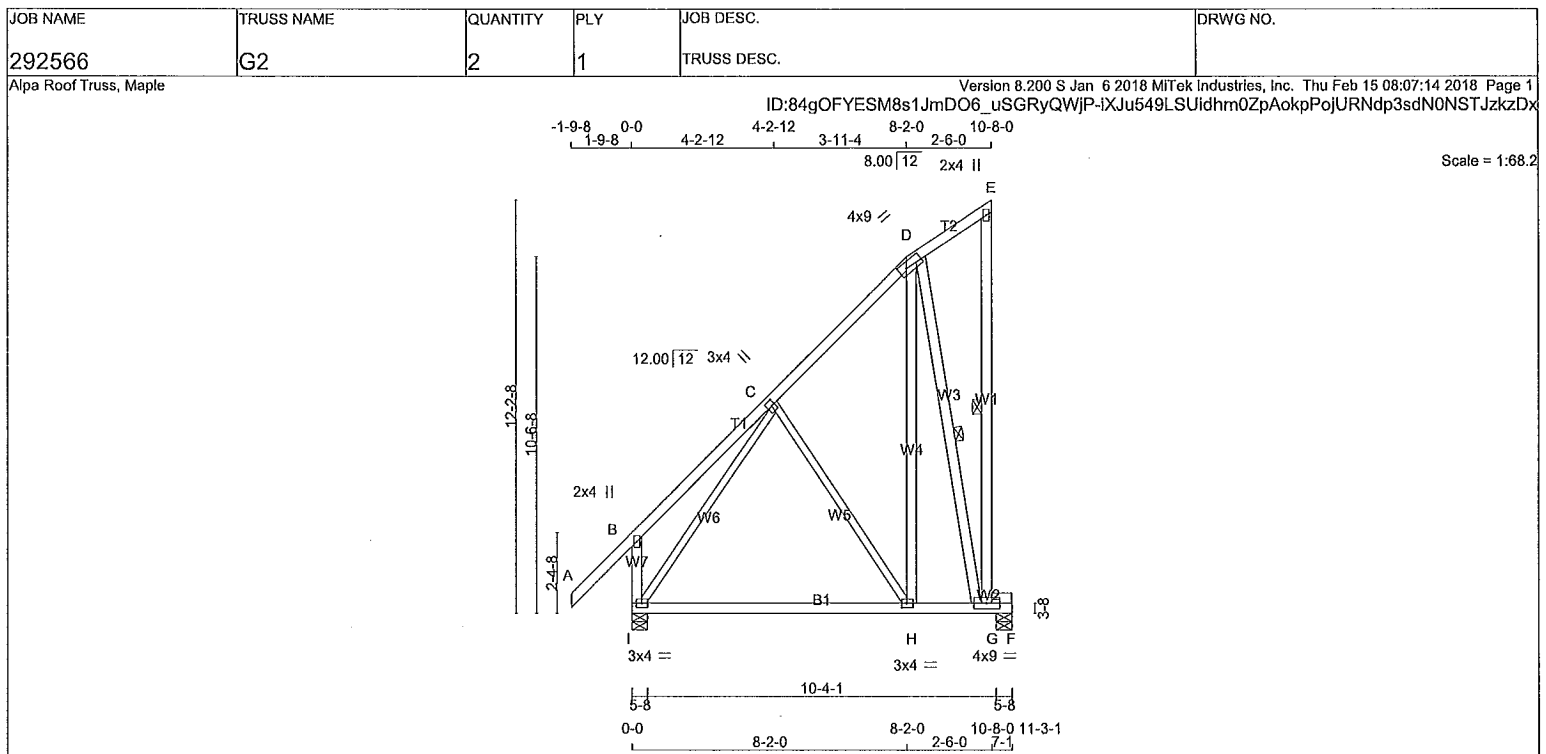
PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.27 (B) (INPUT = 0.90)
JSI METAL = 0.18 (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-18023043



TOTAL WEIGHT = 2 X 84 = 168 lb (M)

LUMBER				
N. L. G. A. RULES				
CHORDS	SIZE	LUMBER	DESCR.	
A - D	2x4	DRY	No.2	SPF
D - E	2x4	DRY	No.2	SPF
G - E	2x4	DRY	No.2	SPF
I - B	2x4	DRY	No.2	SPF
I - F	2x4	DRY	No.2	SPF
G - F	2x4	DRY	No.2	SPF
ALL WEBS EXCEPT	2x4	DRY	No.2	SPF
I - C	2x3	DRY	No.2	SPF
C - H	2x3	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	TMVW+t	MT20	3.0	4.0	2.00 1.25
D	TTWV-m	MT20	4.0	9.0	2.00 2.75
E	TMV+p	MT20	2.0	4.0	
G	BMVWV-t	MT20	4.0	9.0	
H	BMVWV-t	MT20	3.0	4.0	1.50 1.75
I	BMVWV-t	MT20	3.0	4.0	

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

BEARINGS		FACTORED		MAXIMUM FACTORED		INPUT		REQRD	
JT	VERT	GROSS REACTION	HORZ	GROSS REACTION	DOWN	BRG	IN-SX	BRG	IN-SX
F	498	0	498	0	0	5-8 (5-7)	1-8		
I	689	0	689	0	0	5-8	1-8		

VALUE IN PARENTHESIS INDICATES EFFECTIVE BEARING LENGTH

UNFACTORED REACTIONS

1ST LCASE	MAX/MIN. COMPONENT REACTIONS							
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL	
F	356	212 / 0	0 / 0	0 / 0	0 / 0	144 / 0	0 / 0	
I	489	315 / 0	0 / 0	0 / 0	0 / 0	173 / 0	0 / 0	

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

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

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS		FACTORED		WEBS		FACTORED	
MEMB.	FORCE (LBS)	VERT. LOAD (PLF)	MAX. CSI (LC)	MEMB.	FORCE (LBS)	MAX. CSI (LC)	
FR-TO		FROM TO		FR-TO			
A-B	0 / 52	-78.0 -78.0	0.20 (1)	H-D	0 / 465	0.07 (1)	
B-C	0 / 27	-78.0 -78.0	0.22 (1)	D-G	-570 / 0	0.35 (1)	
C-D	-210 / 0	-78.0 -78.0	0.22 (1)	I-C	-435 / 0	0.45 (1)	
D-E	0 / 0	-78.0 -78.0	0.08 (1)	C-H	-198 / 0	0.22 (1)	
G-E	-97 / 0	0.0 0.0	0.08 (1)				
I-B	-269 / 0	0.0 0.0	0.03 (1)				
I-H	0 / 242	-18.5 -18.5	0.33 (4)				
H-G	0 / 136	-18.5 -18.5	0.42 (1)				
G-F	0 / 0	-18.5 -18.5	0.16 (1)				

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 (0.38")
CALCULATED VERT. DEFL.(LL)= L/999 (0.03")
ALLOWABLE DEFL.(TL)= L/360 (0.38")
CALCULATED VERT. DEFL.(TL)= L/999 (0.11")

CSI: TC=0.22/1.00 (B-C:1), BC=0.42/1.00 (G-H:1), WB=0.45/1.00 (C-I:1), SSI=0.19/1.00 (F-G:1)

DOL LUMBER=1.00 NAIL=1.00 L.S BEND=1.10 COMP=1.10 SHEAR=1.10 TENS=1.10

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE RIGHT HEEL ONLY

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

NAIL VALUES

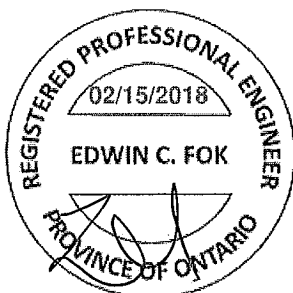
PLATE	GRIP(DRY)	SHEAR	SECTION
	(PSI)	(PLI)	(PLI)
	MAX	MIN	MAX
MT20	618	354	1667
	788	1987	1656

PLATE PLACEMENT TOL. = 0.250 inches

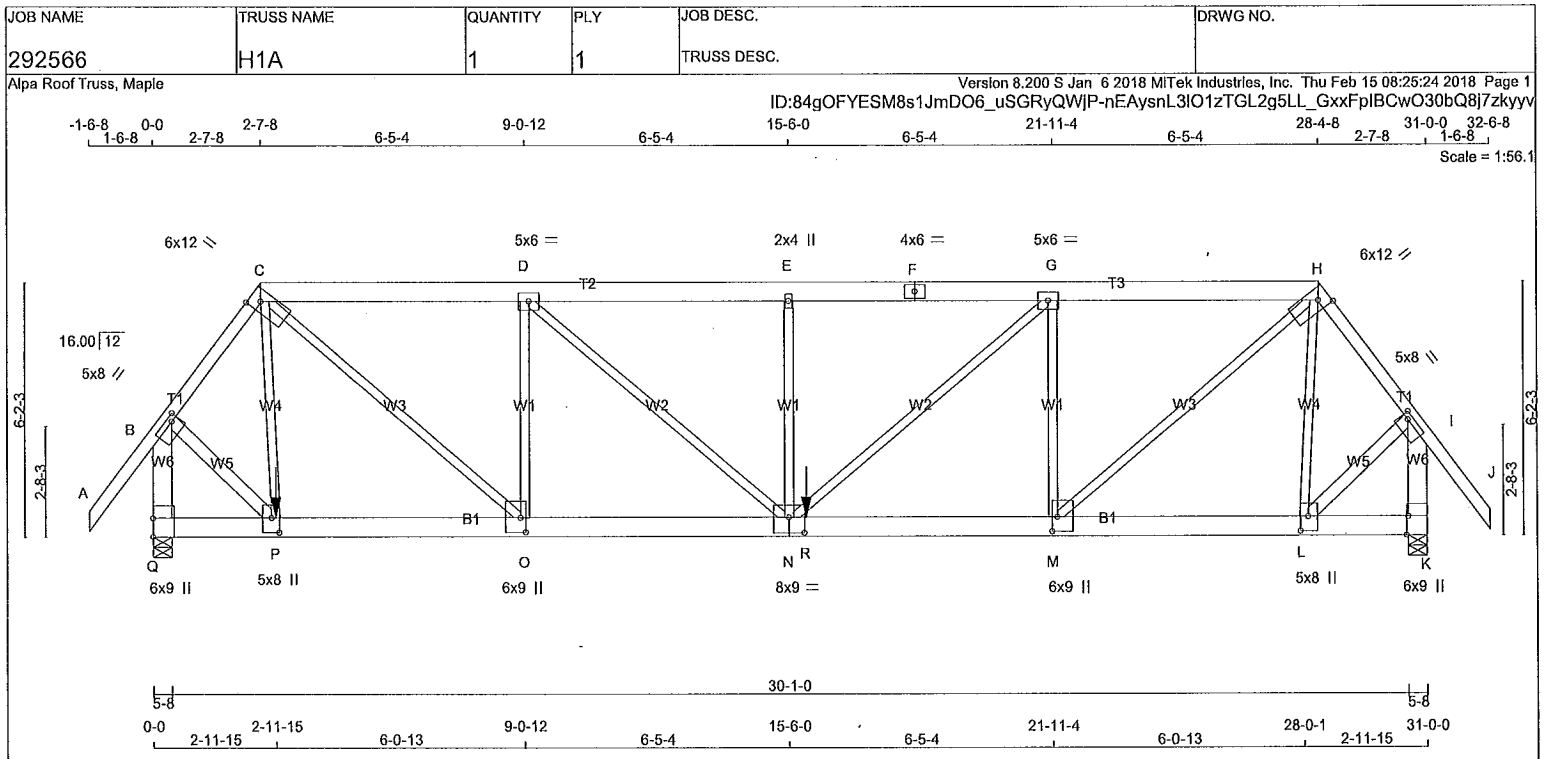
PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.90 (C) (INPUT = 0.90)
JSI METAL= 0.32 (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



A-18023044



LUMBER				N. L. G. A. RULES			
CHORDS	SIZE	DRY	LUMBER	DESCR.	SPF	No.2	
A - C	2x4	DRY	No.2	SPF	No.2		
C - F	2x6	DRY	No.2	SPF	No.2		
F - H	2x6	DRY	No.2	SPF	No.2		
H - J	2x4	DRY	No.2	SPF	No.2		
Q - B	2x6	DRY	No.2	SPF	No.2		
K - I	2x6	DRY	No.2	SPF	No.2		
Q - N	2x6	DRY	1650F 1.5E	SPF	1650F 1.5E		
N - K	2x6	DRY	1650F 1.5E	SPF	1650F 1.5E		
ALL WEBS	2x3	DRY	No.2	SPF	No.2		
EXCEPT							
B - P	2x4	DRY	No.2	SPF	No.2		
L - I	2x4	DRY	No.2	SPF	No.2		

DRY: SEASONED LUMBER.

PLATES (table is in inches)					
JT	TYPE	PLATES	W	LEN	Y X
B	TMVW-t	MT20	5.0	8.0	1.50 2.00
C	TTWW+h	MT20	6.0	12.0	3.25 2.75
D	TMVW-t	MT20	5.0	6.0	
E	TMVW-t	MT20	2.0	4.0	
F	TS-t	MT20	4.0	6.0	
G	TMVW-t	MT20	5.0	6.0	
H	TTWW+h	MT20	6.0	12.0	3.25 2.75
I	TMVW-t	MT20	5.0	8.0	1.50 2.00
K	BMV1+t	MT20	6.0	9.0	Edge 0.50
L	BMVW+h	MT20	5.0	8.0	4.25 2.25
M	BMVW+h	MT20	6.0	9.0	4.25 1.50
N	BSVW+h	MT20	8.0	9.0	4.50 4.50
O	BMVW+h	MT20	6.0	9.0	4.25 1.50
P	BMVW+t	MT20	5.0	8.0	4.25 2.25
Q	BMV1+t	MT20	6.0	9.0	5.50

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

HANGERS NOTES

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

	FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	REQRD BRG
JT	VERT	HORZ	DOWN	HORZ
Q	4895	0	4895	0
K	4254	0	4254	0

UNFACTORED REACTIONS

1ST LCASE	MAX/MIN. COMPONENT REACTIONS						
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
Q	3488	2144 / 0	0 / 0	0 / 0	0 / 0	1344 / 0	0 / 0
K	3030	1865 / 0	0 / 0	0 / 0	0 / 0	1166 / 0	0 / 0

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.34 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX LC1 (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX LC1 (LC)	
FR-TO		FROM	TO	FR-TO		FROM	TO
A-B	0 / 52	-78.0	-78.0 0.17 (1)	10.00	C-P	0 / 659	0.16 (1)
B-C	-3530 / 0	-78.0	-78.0 0.30 (1)	3.50	O-D	-1749 / 0	0.94 (1)
C-D	-4251 / 0	-78.0	-78.0 0.38 (1)	3.88	D-N	0 / 1781	0.44 (1)
D-E	-5582 / 0	-78.0	-78.0 0.48 (1)	3.34	N-E	-462 / 0	0.25 (1)
E-F	-5582 / 0	-78.0	-78.0 0.45 (1)	3.38	N-G	0 / 1016	0.25 (1)
F-G	-5582 / 0	-78.0	-78.0 0.45 (1)	3.38	M-G	-1229 / 0	0.66 (1)
G-H	-4823 / 0	-78.0	-78.0 0.41 (1)	3.65	L-H	-460 / 0	0.25 (1)
H-I	-3128 / 0	-78.0	-78.0 0.26 (1)	3.73	B-P	0 / 2625	0.46 (1)
I-J	0 / 52	-78.0	-78.0 0.17 (1)	10.00	L-I	0 / 2326	0.41 (1)
Q-B	-4612 / 0	0.0	0.0 0.46 (1)	4.97	C-O	0 / 2797	0.69 (1)
K-I	-4113 / 0	0.0	0.0 0.41 (1)	5.25	M-H	0 / 3984	0.99 (1)

Q-P	0 / 0	-209.4	-209.4 0.10 (1)	10.00
P-O	0 / 2159	-18.5	-18.5 0.22 (1)	10.00
O-N	0 / 4251	-18.5	-18.5 0.39 (1)	10.00
N-R	0 / 4823	-18.5	-18.5 0.83 (1)	10.00
R-M	0 / 4823	-186.3	-186.3 0.83 (1)	10.00
M-L	0 / 1843	-186.3	-186.3 0.56 (1)	10.00
L-K	0 / 0	-186.3	-186.3 0.21 (1)	10.00

FACTORED CONCENTRATED LOADS (LBS)

JT	LOC.	LC1	MAX.	FACE	DIR.	TYPE
P	2-11-14	-1798	-1798	FRONT	VERT	TOTAL
R	15-11-0	-997	-997	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: CStdGirder

START DISTANCE = 0-0
START SPAN CARRIED = 9-11-0
END DISTANCE = 2-11-14
END SPAN CARRIED = 9-11-0
END WALL WIDTH = 0-0
APPLIED TO FRONT SIDE OF BOTTOM CHORD.
- ADDTL LOADS BASED ON 55 % OF GSL.

GIRDER TYPE: CStdGirder

START DISTANCE = 15-11-0
START SPAN CARRIED = 8-11-8
END DISTANCE = 31-0-0
END SPAN CARRIED = 8-11-8
END WALL WIDTH = 0-0
APPLIED TO FRONT SIDE OF BOTTOM CHORD.
- ADDTL LOADS BASED ON 55 % OF GSL.

*** 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

(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 (1.03")
CALCULATED VERT. DEFL.(LL) = L/999 (0.23")
ALLOWABLE DEFL.(TL) = L/360 (1.03")
CALCULATED VERT. DEFL.(TL) = L/796 (0.47")

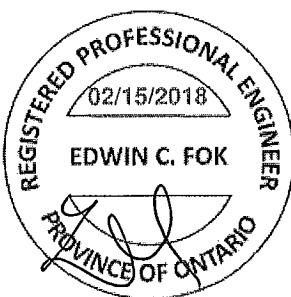
CSI: TC=0.48/1.00 (D-E:1), BC=0.83/1.00 (M-N:1), WB=0.99/1.00 (H-M:1), SS=0.89/1.00 (M-N:1)

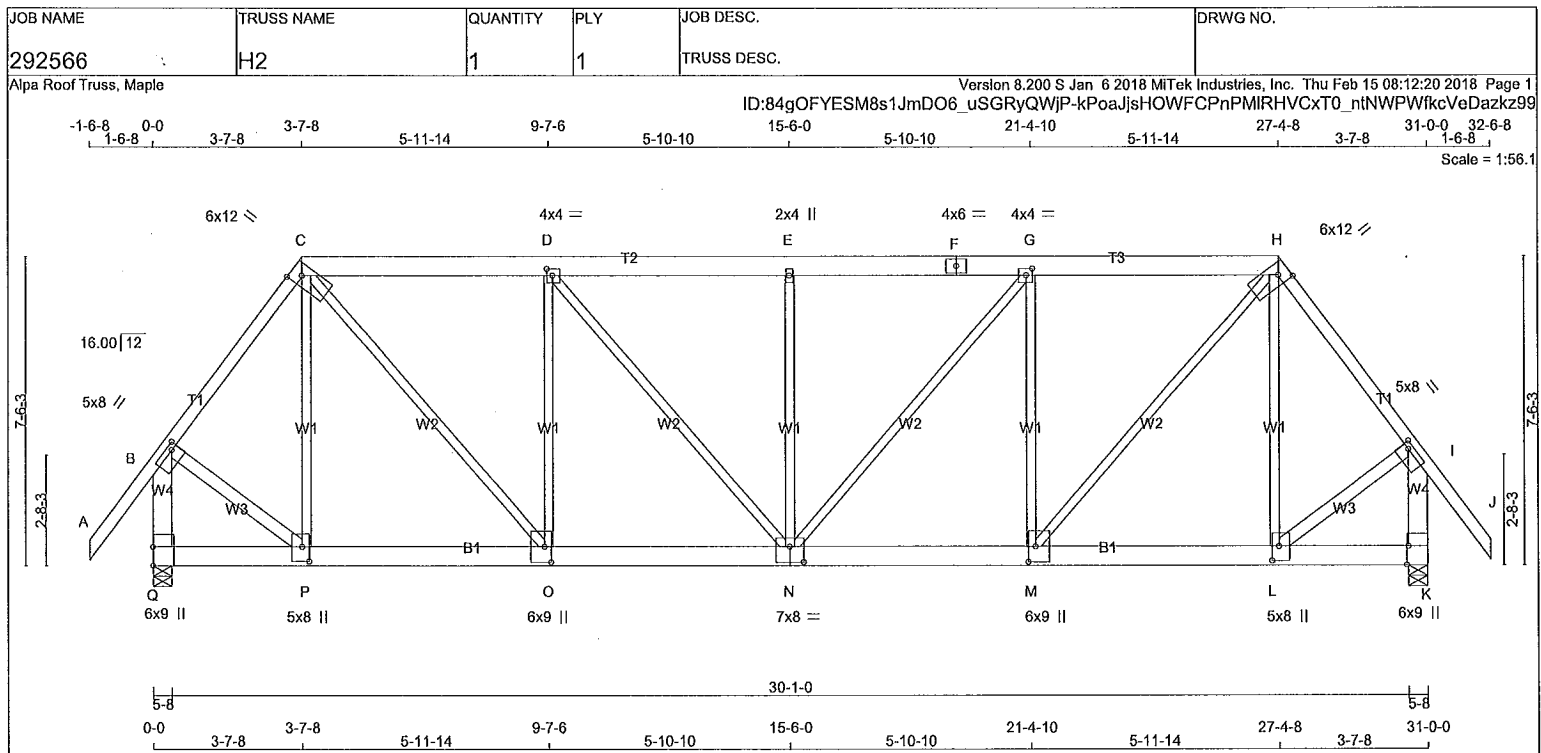
DOL LUMBER=1.00 NAIL=1.00 LS BEND=1.00
COMP=1.00 SHEAR=1.00 TENS=1.00

COMPANION LIVE LOAD FACTOR = 1.00

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CONTINUED ON PAGE 2





LUMBER				N. L. G. A. RULES			
CHORDS	SIZE	LUMBER	DESCR.	CHORDS	SIZE	LUMBER	DESCR.
A - C	2x4	DRY	No.2	SPF			
C - F	2x6	DRY	No.2	SPF			
F - H	2x6	DRY	No.2	SPF			
H - J	2x4	DRY	No.2	SPF			
Q - B	2x6	DRY	No.2	SPF			
K - I	2x6	DRY	No.2	SPF			
Q - N	2x6	DRY	1650F 1.5E	SPF			
N - K	2x6	DRY	1650F 1.5E	SPF			
ALL WEBS	2x3	DRY	No.2	SPF			
EXCEPT							
B - P	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-I	MT20	5.0	8.0	1.50	2.00
C	TTWW+h	MT20	6.0	12.0	3.25	2.75
D	TMVW-I	MT20	4.0	4.0	2.00	1.75
E	TMVW-w	MT20	2.0	4.0		
F	TS-I	MT20	4.0	6.0		
G	TMVW-I	MT20	4.0	4.0	2.00	1.75
H	TTWW+h	MT20	6.0	12.0	3.25	2.75
I	TMVW-I	MT20	5.0	8.0	1.50	2.00
K	BMV1-I	MT20	6.0	9.0	Edge	0.50
L	BMVW-H	MT20	5.0	8.0	4.25	2.00
M	BMVW-H	MT20	6.0	9.0	4.50	2.00
N	BSVW-H	MT20	7.0	8.0	4.50	4.00
O	BMVW-H	MT20	6.0	9.0	4.50	2.00
P	BMVW-H	MT20	5.0	8.0	4.25	2.00
Q	BMV1-I	MT20	6.0	9.0	5.50	

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		FACTORED		MAXIMUM FACTORED		INPUT		REQD	
JT	VERT	GROSS REACTION	DOWN	BRG	UP	IN-SX	IN-SX	BRG	UP
Q	1625	0	1625	0	0	5-8	1-12		
K	1625	0	1625	0	0	5-8	1-12		

UNFACTORED REACTIONS

1ST LCASE		MAX./MIN. COMPONENT REACTIONS							
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL		
Q	1156	720 / 0	0 / 0	0 / 0	0 / 0	435 / 0	0 / 0		
K	1156	720 / 0	0 / 0	0 / 0	0 / 0	435 / 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 = 5.63 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. FACTORED CSI (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. FACTORED CSI (LC)	
FR-TO		FROM TO		FR-TO			
A-B	0 / 52	-78.0 -78.0	0.17 (1)	10.00	P-C	-302 / 0	0.28 (1)
B-C	-1156 / 0	-78.0 -78.0	0.23 (1)	5.63	C-O	0 / 1176	0.29 (1)
C-D	-1450 / 0	-78.0 -78.0	0.22 (1)	6.15	O-D	-784 / 0	0.72 (1)
D-E	-1666 / 0	-78.0 -78.0	0.23 (1)	5.83	D-N	0 / 337	0.08 (1)
E-F	-1666 / 0	-78.0 -78.0	0.23 (1)	5.83	N-E	-423 / 0	0.39 (1)
F-G	-1666 / 0	-78.0 -78.0	0.23 (1)	5.83	N-G	0 / 337	0.08 (1)
G-H	-1450 / 0	-78.0 -78.0	0.22 (1)	6.15	M-G	-784 / 0	0.72 (1)
H-I	-1156 / 0	-78.0 -78.0	0.23 (1)	5.63	M-H	0 / 1176	0.29 (1)
I-J	0 / 52	-78.0 -78.0	0.17 (1)	10.00	L-H	-302 / 0	0.28 (1)
Q-B	-1607 / 0	0.0 0.0	0.16 (1)	7.72	B-P	0 / 805	0.14 (1)
K-I	-1607 / 0	0.0 0.0	0.16 (1)	7.72	L-I	0 / 805	0.14 (1)
Q-P	0 / 0	-18.5 -18.5	0.04 (4)	10.00			
P-O	0 / 688	-18.5 -18.5	0.09 (1)	10.00			
O-N	0 / 1450	-18.5 -18.5	0.15 (1)	10.00			
N-M	0 / 1450	-18.5 -18.5	0.15 (1)	10.00			
M-L	0 / 688	-18.5 -18.5	0.09 (1)	10.00			
L-K	0 / 0	-18.5 -18.5	0.04 (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 (1.03")
CALCULATED VERT. DEFL.(LL) = L/999 (0.05")
ALLOWABLE DEFL.(TL)= L/360 (1.03")
CALCULATED VERT. DEFL.(TL) = L/999 (0.11")

CSI: TC=0.23/1.00 (B-C:1), BC=0.15/1.00 (N-O:1)
WB=0.72/1.00 (D-O:1), SSI=0.18/1.00 (G-H:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE HEELS OFF

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

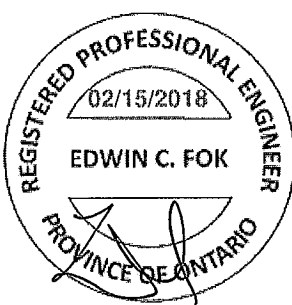
NAIL VALUES
PLATE GRIP(DRY) SHEAR SECTION
(PSI) (PLI) (PLI)
MAX MIN MAX MIN MAX MIN
MT20 618 354 1667 788 1987 1656

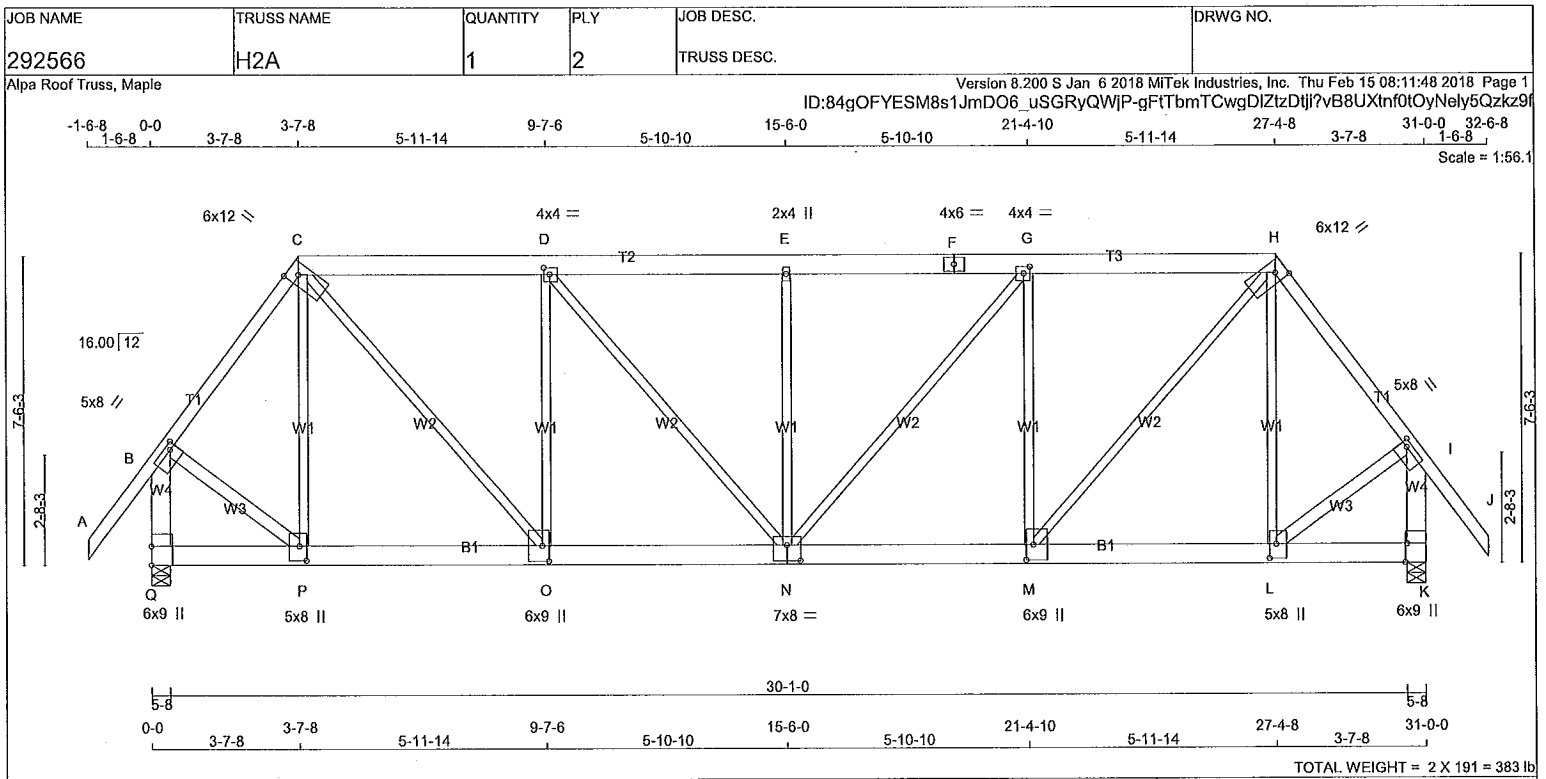
PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.56 (D) (INPUT = 0.90)
JSI METAL= 0.26 (B) (INPUT = 1.00)

A-18023046





LUMBER				
N. L. G. A. RULES				
CHORDS	SIZE	DRY	LUMBER	DESCR.
A - C	2x4	DRY	No.2	SPF
C - F	2x6	DRY	No.2	SPF
F - H	2x6	DRY	No.2	SPF
H - J	2x4	DRY	No.2	SPF
Q - B	2x6	DRY	No.2	SPF
K - I	2x6	DRY	No.2	SPF
Q - N	2x6	DRY	1650F 1.5E	SPF
N - K	2x6	DRY	1650F 1.5E	SPF
ALL WEBS	2x3	DRY	No.2	SPF
EXCEPT				
B - P	2x4	DRY	No.2	SPF
L - I	2x4	DRY	No.2	SPF

DRY: SEASONED LUMBER.

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

CHORDS	#ROWS	SURFACE SPACING (IN)	LOAD(PLF)
TOP CHORDS: (0.122"x3") SPIRAL NAILS			
A-C	1	12	TOP
H-J	1	12	TOP
C-F	2	12	TOP
F-H	2	12	TOP
Q-B	2	12	TOP
K-I	2	12	TOP
BOTTOM CHORDS: (0.122"x3") SPIRAL NAILS			
Q-N	2	9	SIDE(265.9)
N-K	2	9	SIDE(265.9)
WEBS: (0.122"x3") SPIRAL NAILS			
2x3	1	6	
2x4	1	6	

NAILS TO BE DRIVEN FROM ONE SIDE ONLY.

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

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		FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	REQRD BRG
JT	VERT	HORZ	DOWN	HORZ	UPLIFT
Q	9866	0	9866	0	5-8
K	9866	0	9866	0	5-8

UNFACTORED REACTIONS

1ST LCASE	MAX./MIN. COMPONENT REACTIONS						
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
Q	7032	4307 / 0	0 / 0	0 / 0	0 / 0	2725 / 0	0 / 0
K	7032	4307 / 0	0 / 0	0 / 0	0 / 0	2725 / 0	0 / 0

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.33 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR RIGID CEILING DIRECTLY APPLIED.

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS		WEBS	
MEMB.	MAX. FACTORED FORCE (LBS)	MEMB.	MAX. FACTORED FORCE (LBS)
FR-TO		FR-TO	
A-B	0 / 52	P-C	0 / 132
B-C	-7706 / 0	C-O	0 / 7442
C-D	-9440 / 0	O-D	-1998 / 0
D-E	-10710 / 0	D-N	0 / 1982
E-F	-10710 / 0	N-E	-452 / 0
F-G	-10710 / 0	N-G	0 / 1982
G-H	-9440 / 0	M-H	-1998 / 0
H-I	-7706 / 0	L-H	0 / 132
I-J	0 / 52	B-P	0 / 5370
Q-B	-8177 / 0	L-I	0 / 5370
K-I	-8177 / 0		
Q-P	0 / 0		
P-O	0 / 4621		
O-N	0 / 9440		
N-M	0 / 9440		
M-L	0 / 4621		
L-K	0 / 0		

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: CslidGlder
START DISTANCE = 0-0
START SPAN CARRIED = 24-0-9
END DISTANCE = 31-0-0
END SPAN CARRIED = 24-0-9
END WALL WIDTH = 0-0
APPLIED TO FRONT SIDE OF BOTTOM CHORD.
- 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

(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 (1.03")
CALCULATED VERT. DEFL.(LL)= L/999 (0.20")
ALLOWABLE DEFL.(TL)= L/360 (1.03")
CALCULATED VERT. DEFL.(TL)= L/947 (0.39")

CSI: TC=0.46/1.00 (I-K:1), BC=0.87/1.00 (M-N:1), WB=0.92/1.00 (H-M:1), SSI=0.64/1.00 (M-N:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE HEELS OFF

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

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

PLATE PLACEMENT TOL. = 0.250 Inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.90 (G) (INPUT = 0.90)
JSI METAL= 0.83 (P) (INPUT = 1.00)

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CONTINUED ON PAGE 2



JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
292566	H2A	1	2	TRUSS DESC.	
Alpa Roof Truss, Maple					
Version 8.200 S Jan 6 2018 MITek Industries, Inc. Thu Feb 15 08:11:48 2018 Page 2					
ID:84gOFYESM8s1JmDO6 uSGRyQWJP-gFtTbmTCwgDIZtzDijj?vB8UXtnf0IOyNely5Qzkz9f					

PLATES (table is in inches)

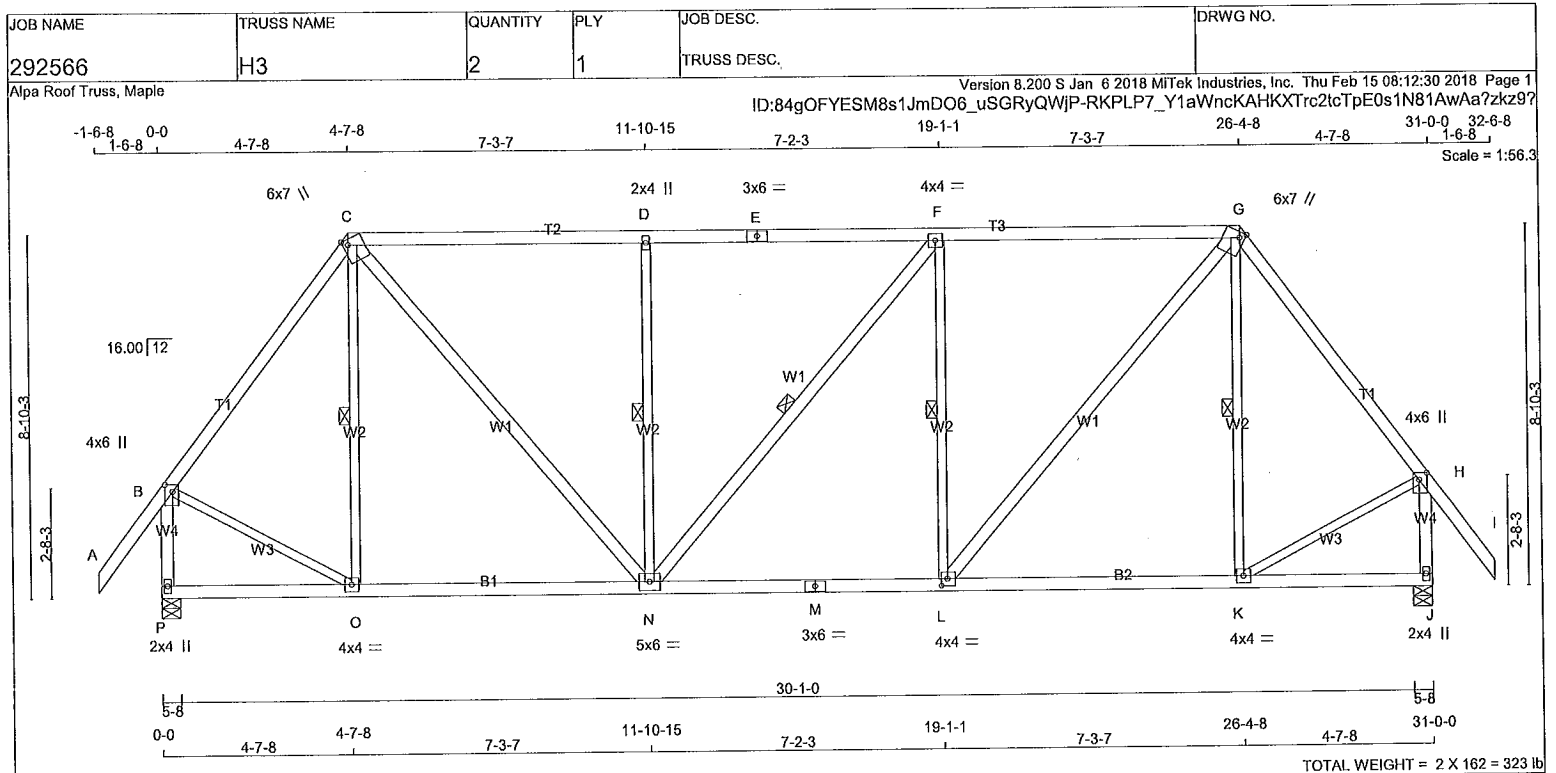
JT	TYPE	PLATES	W	LEN	Y	X
B	TMVW-t	MT20	5.0	8.0	1.50	2.00
C	TTWW+h	MT20	6.0	12.0	3.25	2.75
D	TMVW-t	MT20	4.0	4.0	2.00	1.75
E	TMV+w	MT20	2.0	4.0		
F	TS-t	MT20	4.0	6.0		
G	TMVW-t	MT20	4.0	4.0	2.00	1.75
H	TTWW+h	MT20	6.0	12.0	3.25	2.75
I	TMVW-t	MT20	5.0	8.0	1.50	2.00
K	BMV1+t	MT20	6.0	9.0	Edge	0.50
L	BMVW+t	MT20	5.0	8.0	4.25	2.00
M	BMVW+t	MT20	6.0	9.0	4.50	2.00
N	BSVWV-t	MT20	7.0	8.0	4.50	4.00
O	BMVW+t	MT20	6.0	9.0	4.50	2.00
P	BMVW+t	MT20	5.0	8.0	4.25	2.00
Q	BMV1+t	MT20	6.0	9.0	5.50	

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



A-18023047(2)



LUMBER

N. L. G. A. RULES

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

DRY: SEASONED LUMBER.

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

BEARINGS

JT	FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG	REQRD BRG
	VERT	HORZ	DOWN	HORZ		
P	1625	0	1625	0	5-8	2-6
J	1625	0	1625	0	5-8	2-6

UNFACTORED REACTIONS

JT	1ST LCASE		MAX/MIN COMPONENT REACTIONS		WIND	DEAD	SOIL
	COMBINED	SNOW	LIVE	PERM.LIVE			
P	1156	720/0	0/0	0/0	0/0	435/0	0/0
J	1156	720/0	0/0	0/0	0/0	435/0	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 = 4.67 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

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

1 LATERAL BRACE(S) AT 1/2 LENGTH OF C-O, D-N, F-N, F-L, G-K.

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

LOADING
TOTAL LOAD CASES: (4)

MEMB.	CHORDS		FACTORED		MAX. UNBRACED LENGTH	MEMB.	WEBS	
	MAX. FORCE (LBS)	VERT. LOAD (PLF)	LC1	MAX. CSI (LC)			MAX. FORCE (LBS)	MAX. CSI (LC)
FR-TO		FROM	TO			FR-TO		
A-B	0/52	-78.0	-78.0	0.15 (1)	10.00	O-C	-217/2	0.11 (1)
B-C	-1178/0	-78.0	-78.0	0.37 (1)	5.47	C-N	0/979	0.16 (1)
C-D	-1337/0	-78.0	-78.0	0.67 (1)	4.69	N-D	-609/0	0.31 (1)
D-E	-1337/0	-78.0	-78.0	0.68 (1)	4.68	N-F	-2/0	0.00 (1)
E-F	-1337/0	-78.0	-78.0	0.68 (1)	4.68	L-F	-610/0	0.31 (1)
F-G	-1338/0	-78.0	-78.0	0.68 (1)	4.67	L-G	0/981	0.16 (1)
G-H	-1177/0	-78.0	-78.0	0.37 (1)	5.47	K-G	-218/2	0.11 (1)
H-I	0/52	-78.0	-78.0	0.15 (1)	10.00	B-O	0/781	0.18 (1)
P-B	-1595/0	0.0	0.0	0.23 (1)	6.54	K-H	0/781	0.18 (1)
J-H	-1595/0	0.0	0.0	0.23 (1)	6.54			
P-O	0/0	-18.5	-18.5	0.16 (4)	10.00			
O-N	0/700	-18.5	-18.5	0.26 (4)	10.00			
N-M	0/1338	-18.5	-18.5	0.32 (1)	10.00			
M-L	0/1338	-18.5	-18.5	0.32 (1)	10.00			
L-K	0/700	-18.5	-18.5	0.26 (4)	10.00			
K-J	0/0	-18.5	-18.5	0.16 (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 (1.03")
CALCULATED VERT. DEFL.(LL) = L/999 (0.05")
ALLOWABLE DEFL.(TL) = L/360 (1.03")
CALCULATED VERT. DEFL.(TL) = L/999 (0.11")

CSI: TC=0.68/1.00 (F-G:1), BC=0.32/1.00 (L-N:1), WB=0.31/1.00 (F-L: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 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= 0.90 (N) (INPUT = 0.90)
JSI METAL= 0.48 (M) (INPUT = 1.00)

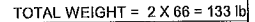
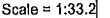
NOTE: Lateral brace(s) shown shall be 1x4 for Part 9 design as per OBC 9.23.13.11, and no less than 2x4 for Part 4 design



A-18023048

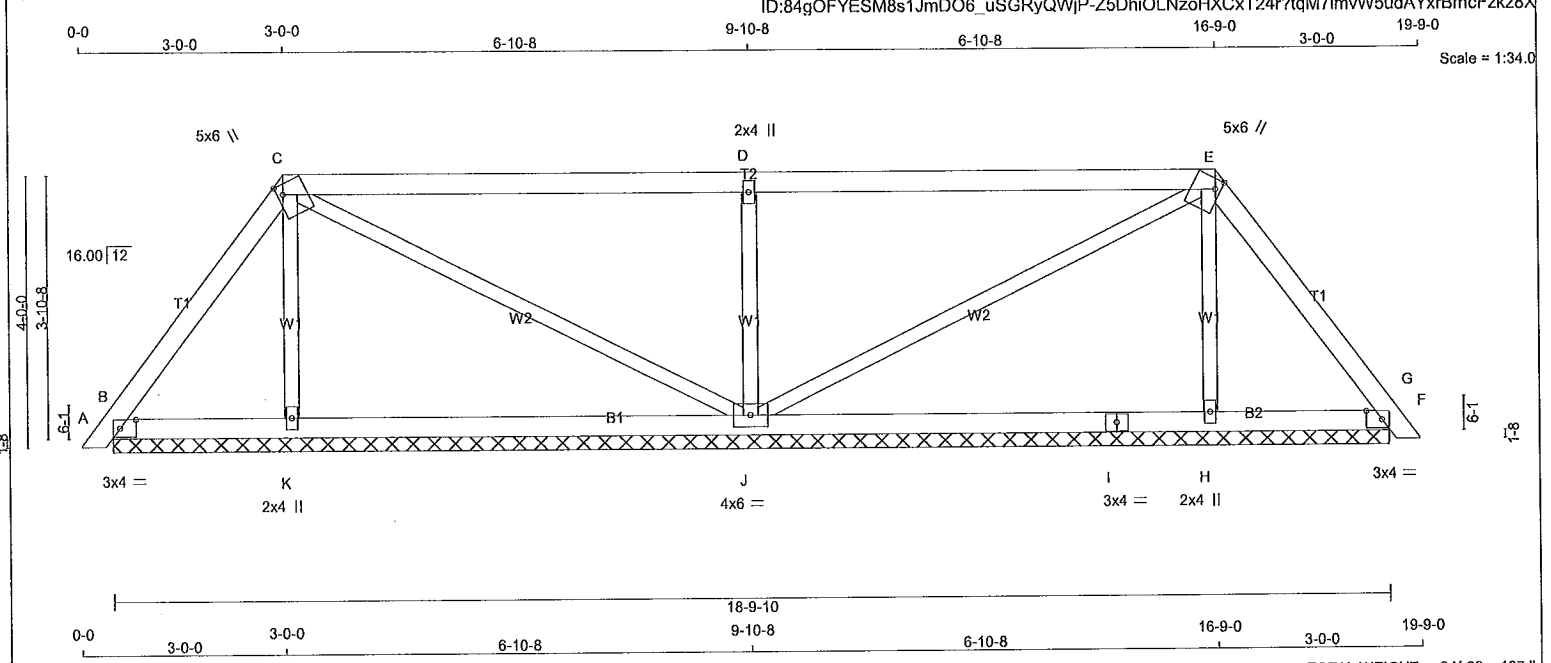
Alpa Roof Truss, Maple

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A-18023050

B- M	0/36	-18.5	-18.5	0.08 (4)	10.00
M- L	0/29	-18.5	-18.5	0.10 (4)	10.00
L- K	0/24	-18.5	-18.5	0.10 (4)	10.00
K- J	0/41	-18.5	-18.5	0.10 (4)	10.00
J- I	0/41	-18.5	-18.5	0.10 (4)	10.00
I- G	0/48	-18.5	-18.5	0.08 (4)	10.00



TOTAL WEIGHT = 2 X 69 = 137 lb

LUMBER					DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER										DESIGN CRITERIA							
N. L. G. A. RULES																						
CHORDS		SIZE		LUMBER	DESCR.	BEARINGS				FACTORED		MAXIMUM FACTORED		INPUT	REQRD	SPECIFIED LOADS:						
A - C	2x4	DRY	No.2	SPF		GROSS REACTION				GROSS REACTION		BRG		BRG	TOP CH. LL = 21.0 PSF							
C - E	2x4	DRY	No.2	SPF		JT	VERT	HORZ		DOWN	HORZ	UPLIFT	IN-SX	IN-SX	DL = 6.0 PSF							
E - G	2x4	DRY	No.2	SPF		B	213	0		213	0	0	18-9-10 (4-0-0)	8-0	BOT CH. LL = 0.0 PSF							
B - I	2x4	DRY	No.2	SPF		K	299	0		299	0	0	18-9-10 (4-0-0)	8-0	DL = 7.4 PSF							
I - F	2x4	DRY	No.2	SPF		J	845	0		845	0	0	18-9-10 (4-0-0)	8-0	TOTAL LOAD = 34.4 PSF							
ALL WEBS		2x3	DRY	No.2	SPF	H	299	0		299	0	0	18-9-10 (4-0-0)	8-0								
DRY: SEASONED LUMBER.						F	213	0		213	0	0	18-9-10 (4-0-0)	8-0								
																			SPACING = 24.0 IN. C/C			

<u>VALUE IN PARENTHESIS INDICATES EFFECTIVE BEARING LENGTH</u>										LOADING IN FLAT SECTION BASED ON A SLOPE OF 2.00/12 MINIMUM			

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

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

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

LOADING
TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. FACTORED CS (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. FACTORED CS (LC)	
FR-TO		FROM TO		FR-TO			
A-B	0 / 10	-78.0 -78.0	0.01 (1)	10.00	K-C	-196 / 0	0.05 (1)
B-C	-102 / 0	-78.0 -78.0	0.09 (1)	6.25	C-J	-46 / 0	0.05 (1)
C-D	-12 / 0	-78.0 -78.0	0.63 (1)	6.25	J-D	-670 / 0	0.16 (1)
D-E	-12 / 0	-78.0 -78.0	0.63 (1)	6.25	J-E	-46 / 0	0.05 (1)
E-F	-102 / 0	-78.0 -78.0	0.09 (1)	6.25	H-E	-196 / 0	0.05 (1)
F-G	0 / 10	-78.0 -78.0	0.01 (1)	10.00			

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. FACTORED CS (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. FACTORED CS (LC)	
B-K	0 / 59	-18.5 -18.5	0.13 (4)	10.00			
K-J	0 / 53	-18.5 -18.5	0.19 (4)	10.00			
J-I	0 / 53	-18.5 -18.5	0.19 (4)	10.00			
I-H	0 / 53	-18.5 -18.5	0.19 (4)	10.00			
H-F	0 / 59	-18.5 -18.5	0.13 (4)	10.00			

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

COMPANION LIVE LOAD FACTOR = 1.00

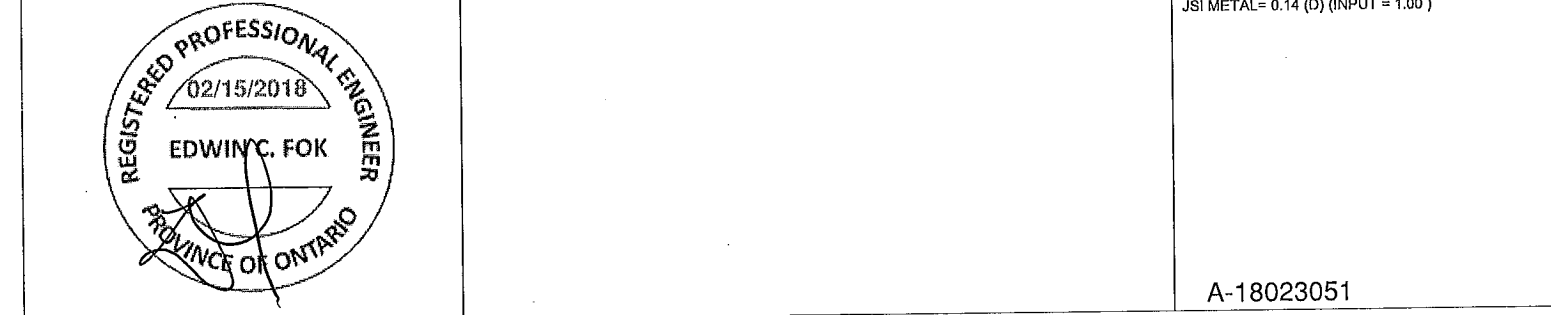
TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

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

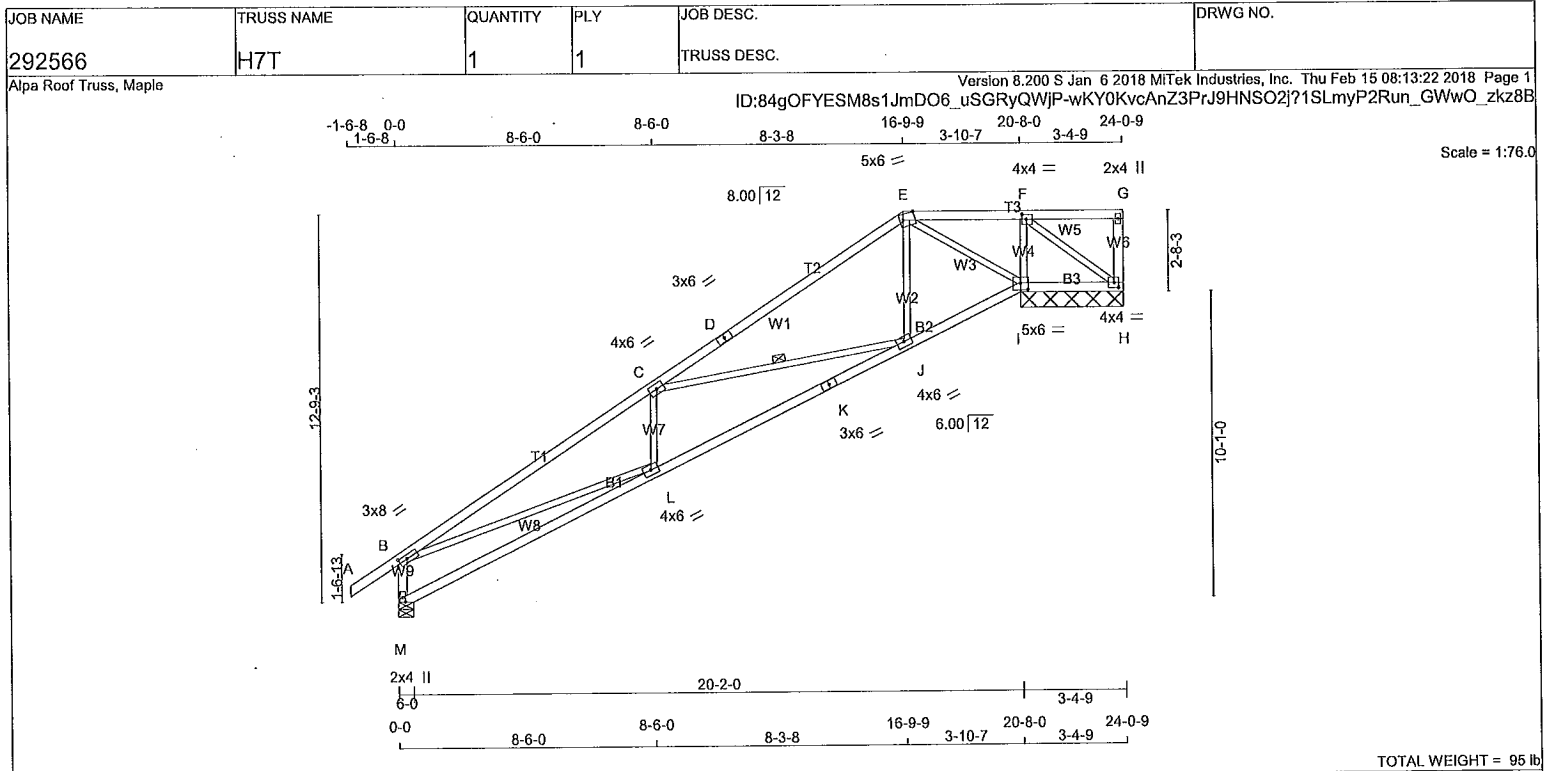
PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP = 0.72 (J) (INPUT = 0.90)
JSI METAL = 0.14 (D) (INPUT = 1.00)



A-18023051



LUMBER				
N. L. G. A. RULES				
CHORDS	SIZE	LUMBER	DESCR.	
A - D	2x4	DRY	2100F 1.8E	SPF
D - E	2x4	DRY	2100F 1.8E	SPF
E - G	2x4	DRY	No.2	SPF
H - G	2x4	DRY	No.2	SPF
M - B	2x4	DRY	No.2	SPF
M - K	2x4	DRY	No.2	SPF
K - I	2x4	DRY	No.2	SPF
I - H	2x4	DRY	No.2	SPF

ALL WEBS 2x3 DRY No.2 SPF
EXCEPT

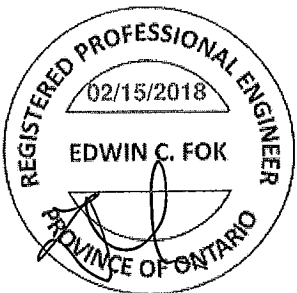
DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMVW-t	MT20	3.0	8.0	1.50	3.25
C	TMVW-t	MT20	4.0	6.0		
D	TS-t	MT20	3.0	6.0		
E	TTVW-m	MT20	5.0	6.0	Edge	4.75
F	TMVW-t	MT20	4.0	4.0	2.00	1.75
G	TMV+p	MT20	2.0	4.0		
H	BMVW1-t	MT20	4.0	4.0	2.00	1.75
I	BBVW1-t	MT20	5.0	6.0	2.75	3.00
J	BMVW-t	MT20	4.0	6.0		
K	BS-t	MT20	3.0	6.0		
L	BMVW-t	MT20	4.0	6.0		
M	BMV1+p	MT20	2.0	4.0	Edge	

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		FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	REQD BRG
JT	VERT	HORZ	DOWN	HORZ	UPLIFT
H	-506	0	0	0	-506
I	1938	0	1938	0	0
M	1014	0	1014	0	0

VALUE IN PARENTHESIS INDICATES EFFECTIVE BEARING LENGTH

PROVIDE ANCHORAGE AT BEARING JOINT H FOR 506 LBS. FACTORED UPLIFT

NOTE: ANCHORAGE REQUIRED FOR LARGE UPLIFT FORCES, SHALL BE PROVIDED BY BUILDG. DESIGNER

UNFACTORED REACTIONS

JT	1ST LCASE	MAX. MIN. COMPONENT REACTIONS	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
H	-360	0 / -223	0 / 0	0 / 0	0 / 0	0 / 0	0 / -137	0 / 0
I	1381	847 / 0	0 / 0	0 / 0	0 / 0	0 / 0	534 / 0	0 / 0
M	720	454 / 0	0 / 0	0 / 0	0 / 0	0 / 0	267 / 0	0 / 0

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.74 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 6.25 FT. OR RIGID CEILING DIRECTLY APPLIED.

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

1 LATERAL BRACE(S) AT 1/2 LENGTH OF C-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		FACTORED		WEBS	
MEMB.	MAX. FACTORED FORCE (LBS)	VERT. LOAD (PLF)	MAX. FACTORED (LC1)	MEMB.	MAX. FACTORED FORCE (LBS)
FR-TO		FROM	TO	FR-TO	
A-B	0 / 35	-78.0	-78.0 0.09 (1)	L-C	-112 / 89
B-C	-1968 / 0	-78.0	-78.0 0.87 (1)	C-J	-1378 / 0
C-D	-413 / 0	-78.0	-78.0 0.62 (1)	J-E	0 / 591
D-E	-413 / 0	-78.0	-78.0 0.62 (1)	E-I	-1421 / 0
E-F	0 / 890	-78.0	-78.0 0.36 (1)	I-F	-994 / 0
F-G	0 / 0	-78.0	-78.0 0.22 (1)	F-H	0 / 1049
H-G	-79 / 0	0.0	0.0 0.01 (1)	B-L	0 / 1760
M-B	-948 / 0	0.0	0.0 0.10 (1)		
M-L	0 / 8	-18.5	-18.5 0.32 (4)		
L-K	0 / 1864	-18.5	-18.5 0.50 (4)		
K-J	0 / 1864	-18.5	-18.5 0.50 (4)		
J-I	0 / 350	-18.5	-18.5 0.20 (4)		
I-H	-847 / 0	-18.5	-18.5 0.07 (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) = $L/360$ (0.69")
CALCULATED VERT. DEFL.(LL) = $L/999$ (0.10")
ALLOWABLE DEFL.(TL) = $L/360$ (0.69")
CALCULATED VERT. DEFL.(TL) = $L/932$ (0.27")

CSI: TC=0.87/1.00 (B-C:1), BC=0.50/1.00 (J-L:4), WB=0.71/1.00 (C-J:1), SSI=0.26/1.00 (B-C:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.89 (F) (INPUT = 0.90)
JSI METAL= 0.65 (K) (INPUT = 1.00)

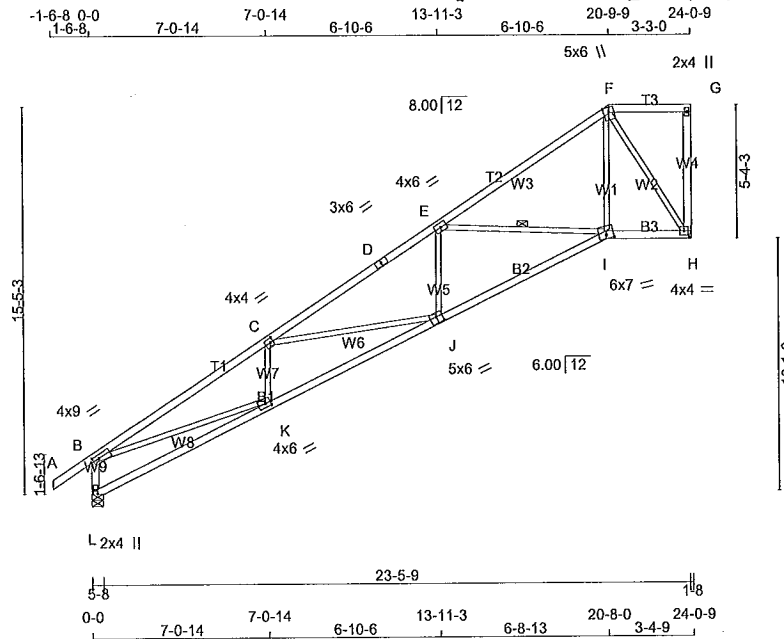
A-18023052

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
292566	H8T	1	1	TRUSS DESC.	

Alpa Roof Truss, Maple

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TOTAL WEIGHT = 102 lb

LUMBER				DESCR.	
N. L. G. A. RULES	CHORDS	SIZE	LUMBER	DESCR.	
A - D	2x4	DRY	No.2	SPF	
D - F	2x4	DRY	No.2	SPF	
F - G	2x4	DRY	No.2	SPF	
H - G	2x4	DRY	No.2	SPF	
L - B	2x4	DRY	No.2	SPF	
L - J	2x4	DRY	No.2	SPF	
J - I	2x4	DRY	No.2	SPF	
I - H	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	X
B	TMVW-I	MT20	4.0	9.0	1.75 3.00
C	TMVW-I	MT20	4.0	4.0	2.00 1.50
D	TS-I	MT20	3.0	6.0	
E	TMVW-I	MT20	4.0	6.0	
F	TTVW+m	MT20	5.0	6.0	Edge
G	TMV+p	MT20	2.0	4.0	
H	BMVW1-I	MT20	4.0	4.0	
I	BBVW-m	MT20	6.0	7.0	1.75 3.50
J	BSVW-I	MT20	5.0	6.0	3.00 3.00
K	BMVW-I	MT20	4.0	6.0	1.75 2.50
L	BMV1+p	MT20	2.0	4.0	Edge

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

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

BEARINGS					
JT	FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT	REQD	
H	VERT	DOWN	BRG	BRG	
H	1160	0	1160	0	0
L	1286	0	1286	0	0

UNFACTORED REACTIONS					
JT	1ST LCASE	MAX/MIN	COMPONENT REACTIONS		
H	COMBINED	SNOW	LIVE	PERM.LIVE	WIND
H	827	505 / 0	0 / 0	0 / 0	0 / 0
L	914	573 / 0	0 / 0	0 / 0	0 / 0

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

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

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

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

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

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. FACTORED VERT. LOAD (LC1)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. FACTORED VERT. LOAD (LC1)	
FR-TO		FROM	TO	FR-TO			
A-B	0 / 35	-78.0	-78.0 0.15 (1)	10.00	K-C	-330 / 0	0.06 (1)
B-C	-2796 / 0	-78.0	-78.0 0.78 (1)	3.53	C-J	-460 / 0	0.44 (1)
C-D	-2260 / 0	-78.0	-78.0 0.56 (1)	4.09	J-E	0 / 294	0.07 (4)
D-E	-2260 / 0	-78.0	-78.0 0.56 (1)	4.09	E-I	-1209 / 0	0.39 (1)
E-F	-841 / 0	-78.0	-78.0 0.46 (1)	6.01	I-F	0 / 1113	0.25 (1)
F-G	0 / 0	-78.0	-78.0 0.14 (1)	10.00	F-H	-1194 / 0	0.72 (1)
H-G	-127 / 0	0.0	0.0 0.06 (1)	7.81	B-K	0 / 2448	0.55 (1)
L-B	-1230 / 0	0.0	0.0 0.13 (1)	7.23			

L-K	0 / 7	-18.5	-18.5 0.23 (4)	10.00
K-J	0 / 2609	-18.5	-18.5 0.52 (1)	10.00
J-I	0 / 2102	-18.5	-18.5 0.48 (1)	10.00
I-H	0 / 646	-18.5	-18.5 0.14 (1)	10.00

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

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

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 (0.80")
CALCULATED VERT. DEFL.(LL) = L/999 (0.15")
ALLOWABLE DEFL.(TL) = L/360 (0.80")
CALCULATED VERT. DEFL.(TL) = L/863 (0.33")

CSI: TC=0.78/1.00 (B-C:1), BC=0.52/1.00 (J-K:1), WB=0.72/1.00 (F-H:1), SSI=0.21/1.00 (B-C:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

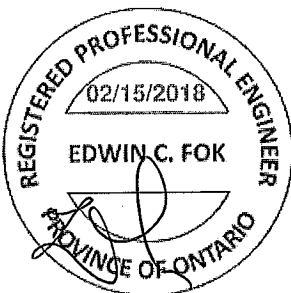
NAIL VALUES
PLATE GRIP(DRY) SHEAR SECTION (PSI) (PLI) (PLI)
MAX MIN MAX MIN MAX MIN
MT20 618 354 1667 788 1987 1656

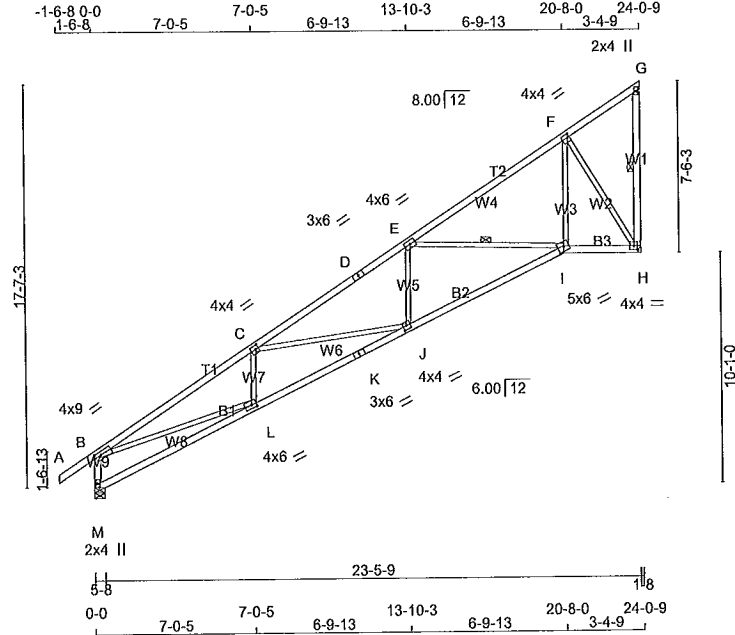
PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.89 (K) (INPUT = 0.90)
JSI METAL= 0.64 (K) (INPUT = 1.00)

A-18023053





TOTAL WEIGHT = 8 X 105 = 839 lb

LUMBER
N. L. G. A. RULES

CHORDS	SIZE	LUMBER	DESCR.
M - B	2x4	DRY No.2	SPF
A - D	2x4	DRY No.2	SPF
D - G	2x4	DRY No.2	SPF
H - G	2x4	DRY No.2	SPF
M - K	2x4	DRY No.2	SPF
K - I	2x4	DRY No.2	SPF
I - H	2x4	DRY No.2	SPF

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

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMVW-t	MT20	4.0	9.0	1.75	3.00
C	TMVW-t	MT20	4.0	4.0	2.00	1.50
D	TS-t	MT20	3.0	6.0		
E	TMVW-t	MT20	4.0	6.0		
F	TMVW-t	MT20	4.0	4.0	1.75	1.00
G	TMV+p	MT20	2.0	4.0		
H	BMVW1-t	MT20	4.0	4.0	2.00	1.75
I	BBVW-h	MT20	5.0	6.0	2.50	3.25
J	BMVW-t	MT20	4.0	4.0	2.00	1.75
K	BS-t	MT20	3.0	6.0		
L	BMVW-t	MT20	4.0	6.0	1.75	2.50
M	BMV1+p	MT20	2.0	4.0	Edge	

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

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

BEARINGS

JT	FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG	REQRD BRG
	VERT	HORZ	DOWN	HORZ		
M	1286	0	1286	0	5-8	1-11
H	1160	0	1160	0	HANGER BY OTHERS MIN. SEAT SIZE: 1-8	

UNFACTORED REACTIONS

JT	1ST LCASE		MAX./MIN. COMPONENT REACTIONS		WIND	DEAD	SOIL
	COMBINED	SNOW	LIVE	PERM.LIVE			
M	914	573 / 0	0 / 0	0 / 0	0 / 0	342 / 0	0 / 0
H	827	505 / 0	0 / 0	0 / 0	0 / 0	322 / 0	0 / 0

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

BRACING
 TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.56 FT.
 MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

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

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

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

LOADING
 TOTAL LOAD CASES: (4)

CHORDS					WEBS				
MAX. FACTORED		FACTORED			MAX. FACTORED				
MEMB.	FORCE	VERT. LOAD	LC1 MAX	MAX.	MEMB.	FORCE	MAX		
	(LBS)	(PLF)	CSI (LC)	UNBRAC		(LBS)	CSI (LC)		
FR-TO		FROM TO		LENGTH	FR-TO				
M-B	-1228 / 0	0.0	0.0	0.13 (1)	7.23	B-L	0 / 2442	0.55 (1)	
A-B	0 / 35	-78.0	-78.0	0.15 (1)	10.00	L-C	-349 / 0	0.06 (1)	
B-C	-2789 / 0	-78.0	-78.0	0.77 (1)	3.56	C-J	-439 / 0	0.41 (1)	
C-D	-2283 / 0	-78.0	-78.0	0.56 (1)	4.07	J-E	0 / 312	0.08 (4)	
D-E	-2283 / 0	-78.0	-78.0	0.56 (1)	4.07	E-I	-1171 / 0	0.39 (1)	
E-F	-878 / 0	-78.0	-78.0	0.36 (1)	6.10	I-F	0 / 1097	0.25 (1)	
F-G	-42 / 0	-78.0	-78.0	0.26 (1)	6.25	F-H	-1287 / 0	0.77 (1)	
H-G	-53 / 0	0.0	0.0	0.01 (1)	6.25				
M-L	0 / 5	-18.5	-18.5	0.19 (4)	10.00				
L-K	0 / 2609	-18.5	-18.5	0.52 (1)	10.00				
K-J	0 / 2609	-18.5	-18.5	0.52 (1)	10.00				
J-I	0 / 2113	-18.5	-18.5	0.44 (1)	10.00				
I-H	0 / 704	-18.5	-18.5	0.15 (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 (0.80")
 CALCULATED VERT. DEFL.(LL) = L/ 999 (0.15")
 ALLOWABLE DEFL.(TL)= L/360 (0.80")
 CALCULATED VERT. DEFL.(TL) = L/ 957 (0.30")

CSI: TC=0.77/1.00 (B-C:1), BC=0.52/1.00 (J-L:1), WB=0.77/1.00 (F-H:1), SSI=0.21/1.00 (B-C:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

NAIL VALUES

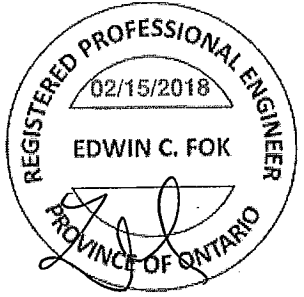
PLATE	GRIP(DRY)	SHEAR (PSI)	SECTION (PLI)
MT20	618	354	1667 788 1987 1656

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.89 (L) (INPUT = 0.90)
 JSI METAL= 0.80 (K) (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

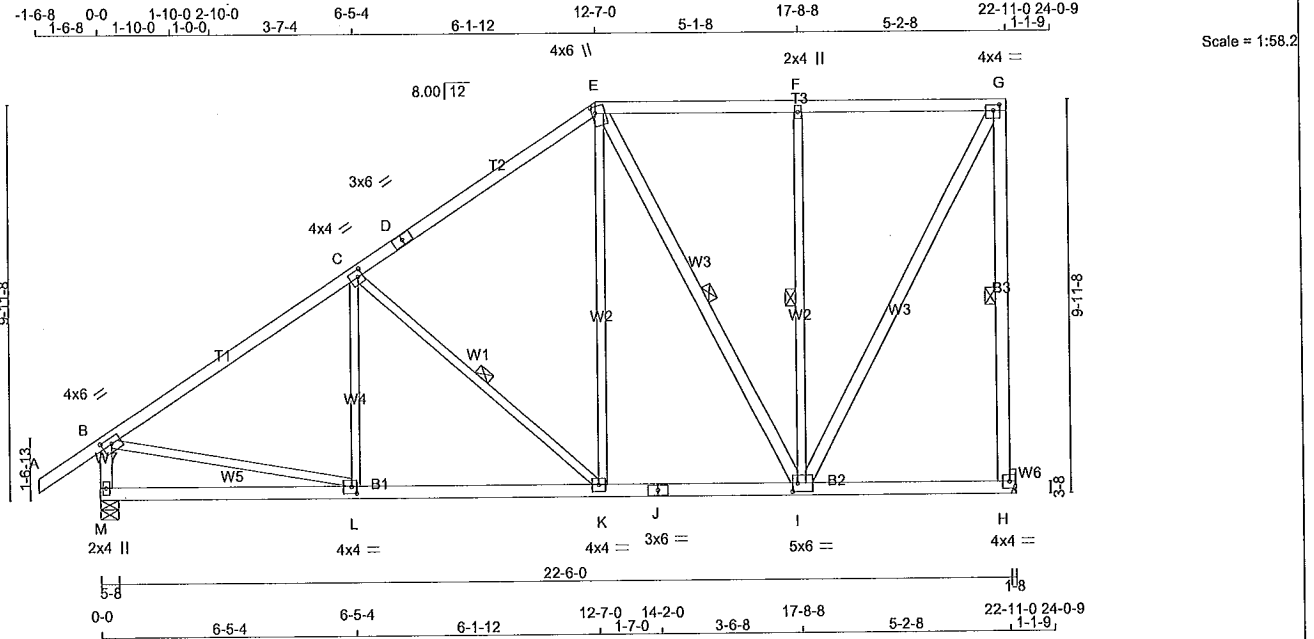


JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
292566	H10	6	1	TRUSS DESC.	

Alpa Roof Truss, Maple

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Scale = 1:58.2

TOTAL WEIGHT = 6 X 125 = 750 lb

[M/JF]

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

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMVW-1	MT20	4.0	6.0	1.75	3.00
C	TMVW-1	MT20	4.0	4.0	2.00	1.50
D	TS-t	MT20	3.0	6.0		
E	TTWW+m	MT20	4.0	6.0	2.00	1.00
F	TMVW-w	MT20	2.0	4.0		
G	TMVW-1	MT20	4.0	4.0	1.75	1.75
H	BMVW-1-t	MT20	4.0	4.0		
I	BMVWW-1	MT20	5.0	6.0	2.50	1.50
J	BS-t	MT20	3.0	6.0		
K	BMVW-1	MT20	4.0	4.0		
L	BMVW-1	MT20	4.0	4.0	2.00	1.50
M	BMV1+p	MT20	2.0	4.0		

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

BEARINGS		FACTORED		MAXIMUM FACTORED		INPUT		REQRD	
JT	VERT	GROSS REACTION	DOWN	GROSS REACTION	HORZ	BRG	BRG	IN-SX	IN-SX
M	1242	0	1242	0	0	5-8	1-13		
H	1158	0	1158	0	0				

UNFACTORED REACTIONS

JT	1ST LCASE	MAX/MIN. COMPONENT REACTIONS	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
M	884	546 / 0	0 / 0	0 / 0	0 / 0	0 / 0	338 / 0	0 / 0
H	831	478 / 0	0 / 0	0 / 0	0 / 0	0 / 0	353 / 0	0 / 0

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

BRACING

FOR SECTION E-G, MAX. PURLIN SPACING = 2.00 FT.
FOR OTHER SECTIONS, TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 5.30 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 5.99 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-K, E-I, F-I.

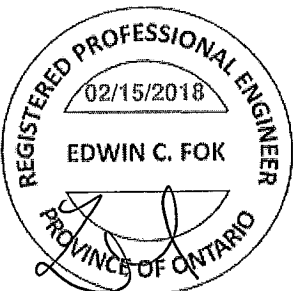
END VERTICAL(S) MUST BE SHEATHED OR HAVE BRACES AS INDICATED IN THE MAX. UNBRACED LENGTH COLUMN OF THE TABLE BELOW

LOADING

TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. FACTORED VERT. LOAD LC1 (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. FACTORED VERT. LOAD (PLF)	MAX. FACTORED VERT. LOAD LC1 (LC)
FR-TO		FROM	TO	FR-TO		FROM	TO
M-B	-1194 / 0	0.0	0.0 0.13 (1)	K-E	0 / 413	0.09 (1)	
A-B	0 / 35	-78.0	-78.0 0.15 (1)	B-L	0 / 1036	0.23 (1)	
B-C	-1190 / 0	-78.0	-78.0 0.45 (1)	L-C	-63 / 73	0.03 (1)	
C-D	-832 / 0	-78.0	-78.0 0.41 (1)	C-K	-472 / 0	0.22 (1)	
D-E	-832 / 0	-78.0	-78.0 0.41 (1)	E-I	-357 / 0	0.23 (1)	
E-F	-500 / 0	-85.5	-85.5 0.28 (1)	I-F	-538 / 0	0.36 (1)	
F-G	-500 / 0	-85.5	-85.5 0.28 (1)	I-G	0 / 1078	0.17 (1)	
M-L	0 / 0	-18.5	-18.5 0.18 (4)				
L-K	0 / 1017	-18.5	-18.5 0.29 (4)				
K-J	0 / 668	-18.5	-18.5 0.18 (4)				
J-I	0 / 668	-18.5	-18.5 0.18 (4)				
I-H	0 / 0	-18.5	-18.5 0.11 (4)				
H-G	-1119 / 0	0.0	0.0 0.54 (1)				

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



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 PIGGYBACK TRUSS WITH SLOPES OF 6.00/12 AND -6.00/12 AND RESPECTIVE WALL HEIGHTS OF 0-0 AND 0-0 AND AN ADDITIONAL DEAD LOAD OF 3.0 P.S.F.

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 (0.76")
CALCULATED VERT. DEFL.(LL)= L/999 (0.03")
ALLOWABLE DEFL.(TL)= L/360 (0.76")
CALCULATED VERT. DEFL.(TL)= L/999 (0.08")

CSI: TC=0.45/1.00 (B-C:1), BC=0.54/1.00 (G-H:1), WB=0.36/1.00 (F-I:1), SSI=0.21/1.00 (E-F:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

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

PLATE PLACEMENT TOL. = 0.250 inches

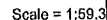
PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.89 (E) (INPUT = 0.90)
JSI METAL= 0.38 (L) (INPUT = 1.00)

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DRWG NO.

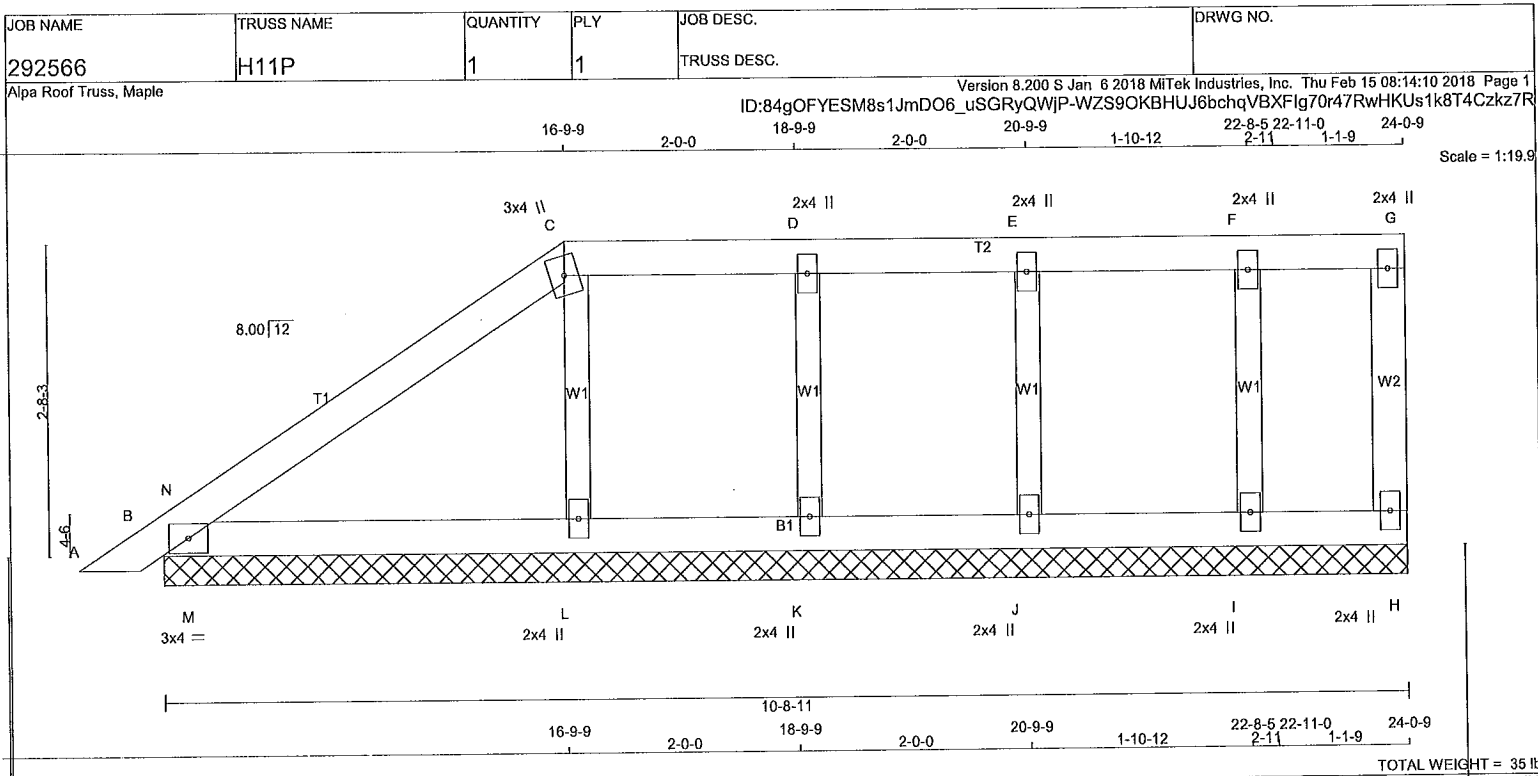
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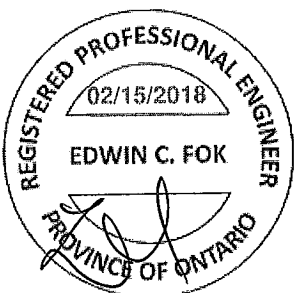


TOTAL WEIGHT = 132 lb

JSI GRIP= 0.40 (E) (INPUT = 0.90)
JSI METAL= 0.25 (B) (INPUT = 1.00)

A-18023056



LUMBER N. L. G. A. RULES CHORDS SIZE LUMBER DESCR. A - C 2x4 DRY No.2 SPF C - G 2x4 DRY No.2 SPF H - G 2x4 DRY No.2 SPF B - H 2x4 DRY No.2 SPF ALL WEBS 2x3 DRY No.2 SPF DRY: SEASONED LUMBER. GABLE STUDS SPACED AT 2-0-0 OC.					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 CSI: TC=0.12/1.00 (C-N:1) , BC=0.10/1.00 (B-M:1) , WB=0.03/1.00 (D-K:1) , SSI=0.18/1.00 (B-M:1) DOL LUMBER=1.00 NAIL=1.00 LS BEND=1 10 COMP=1.10 SHEAR=1.10 TENS= 1.10 COMPANION LIVE LOAD FACTOR = 1.00 AUTOSOLVE RIGHT HEEL ONLY TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL 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= 0.17 (B) (INPUT = 0.90) JSI METAL= 0.06 (C) (INPUT = 1.00)				
PLATES (table is in inches) JT TYPE PLATES W LEN Y X B TMB1-I MT20 3.0 4.0 C TTW+m MT20 3.0 4.0 D, E, F D TMW+w MT20 2.0 4.0 G TMV+p MT20 2.0 4.0 H BMV1+p MT20 2.0 4.0 I, J, K, L I BMW1+w MT20 2.0 4.0					BEARINGS THIS TRUSS DESIGNED FOR CONTINUOUS BEARINGS. THIS TRUSS REQUIRES RIGID SHEATHING ON EXPOSED FACE. BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) BRACING TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 6.25 FT. MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED. ALL PITCH BREAKS AND PERIMETER CORNER JOINTS MUST BE Laterally RESTRAINED. LOADING TOTAL LOAD CASES: (4) CHORDS MEMB. MAX. FACTORED FORCE (LBS) VERT. LOAD (PLF) MAX. FACTORED CSI (LC) UNBRAC LENGTH FR-TO A-B 0 / 13 -78.0 -78.0 0.02 (1) 10.00 L- C -176 / 0 0.03 (1) B- N -9 / 43 -78.0 -78.0 0.04 (1) 10.00 K- D -178 / 0 0.03 (1) N- C -14 / 0 -78.0 -78.0 0.12 (1) 6.25 J- E -143 / 0 0.02 (1) C- D 0 / 0 -78.0 -78.0 0.05 (1) 10.00 I- F -140 / 0 0.02 (1) D- E 0 / 0 -78.0 -78.0 0.05 (1) 10.00 M- N -228 / 0 0.00 (1) E- F 0 / 0 -78.0 -78.0 0.03 (1) 10.00 F- G 0 / 0 -78.0 -78.0 0.03 (1) 10.00 H- G -38 / 0 0.0 0.0 0.01 (1) 7.81 B- M 0 / 8 -18.5 -18.5 0.10 (1) 10.00 M- L 0 / 8 -18.5 -18.5 0.10 (1) 10.00 L- K 0 / 0 -18.5 -18.5 0.06 (1) 10.00 K- J 0 / 0 -18.5 -18.5 0.02 (4) 10.00 J- I 0 / 0 -18.5 -18.5 0.02 (4) 10.00 I- H 0 / 0 -18.5 -18.5 0.01 (4) 10.00 WEBS MEMB. MAX. FACTORED FORCE (LBS) MAX. FACTORED CSI (LC) L- C -176 / 0 0.03 (1) K- D -178 / 0 0.03 (1) J- E -143 / 0 0.02 (1) I- F -140 / 0 0.02 (1) M- N -228 / 0 0.00 (1)				
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					10-1-0				
									
A-18023057									

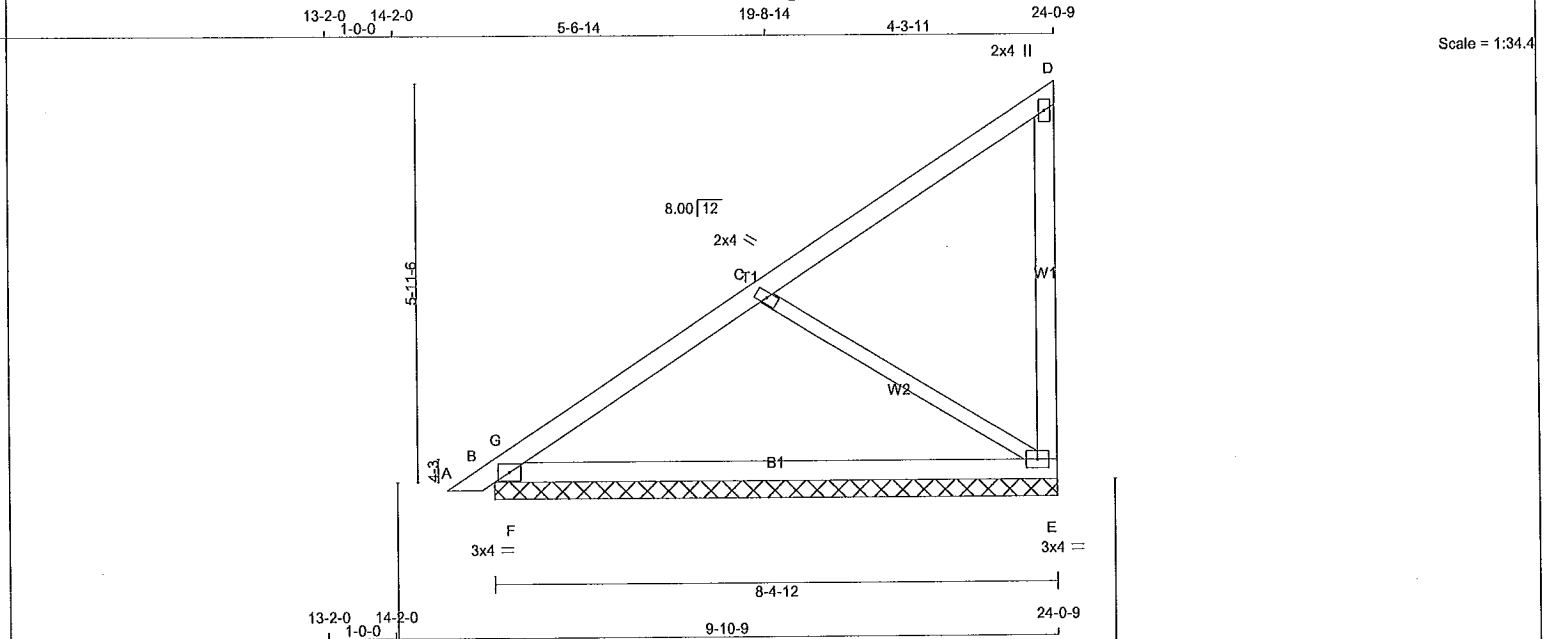
A-18023058

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
292566	H13P	5	1	TRUSS DESC.	

Alpa Roof Truss, Maple

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ID:84gOFYESM8s1JmDO6_uSGRyQWjP-aSsqYSNhyw?Tv?TOZB1pnI8M2AVV1413UZhm6qzkz7C



Scale = 1:34.4

TOTAL WEIGHT = 5 X 32 = 160 lb

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

PLATES (table is in inches)	W	LEN	Y	X
JT TYPE PLATES				
B TMB1-I	MT20	3.0	4.0	
C TMBW+w	MT20	2.0	4.0	
D TMBV+p	MT20	2.0	4.0	
E BMBW1-I	MT20	3.0	4.0	

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

BEARINGS	FACTORED	MAXIMUM FACTORED	INPUT	REQD
GROSS REACTION	GROSS REACTION	DOWN	BRG	BRG
VERT	HORZ	DOWN	HORZ	UPLIFT
IN-SX	IN-SX	IN-SX	IN-SX	IN-SX
JT	405	0	405	0
E	405	0	405	0
B	454	0	454	0

UNFACTORED REACTIONS

1ST LCASE		MAX/MIN. COMPONENT REACTIONS					
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
E	289	176 / 0	0 / 0	0 / 0	0 / 0	113 / 0	0 / 0
B	323	203 / 0	0 / 0	0 / 0	0 / 0	120 / 0	0 / 0

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

BRACING

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

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS	MEMB.	FORCE	VERT. LOAD	LC1	MAX	MAX.	MEMB.	FORCE	MAX
MAX. FACTORED	MAX. FACTORED	MAX. FACTORED	MAX. FACTORED	MAX. FACTORED	MAX. FACTORED	MAX. FACTORED	MAX. FACTORED	MAX. FACTORED	MAX. FACTORED
(LBS)	(LBS)	(LBS)	(LBS)	(LBS)	(LBS)	(LBS)	(LBS)	(LBS)	(LBS)
FR-TO	FR-TO	FR-TO	FR-TO	FR-TO	FR-TO	FR-TO	FR-TO	FR-TO	FR-TO
A-B	0 / 13	-78.0	-78.0	0.02 (1)	10.00	C-E	-400 / 0	0.17 (1)	
B-G	-620 / 0	-78.0	-78.0	0.25 (4)	6.25	F-G	0 / 391	0.00 (1)	
G-C	-365 / 0	-78.0	-78.0	0.26 (1)	6.25				
C-D	-24 / 0	-78.0	-78.0	0.25 (1)	6.25				
E-D	-128 / 0	0.0	0.0	0.08 (1)	7.81				
B-F	0 / 340	-18.5	-18.5	0.23 (4)	10.00				
F-E	0 / 340	-18.5	-18.5	0.29 (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

(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

CSI: TC=0.26/1.00 (C-G:1), BC=0.29/1.00 (E-F:4), WB=0.17/1.00 (C-E:1), SSI=0.36/1.00 (B-F:4)

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

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE HEELS OFF

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

NAIL VALUES

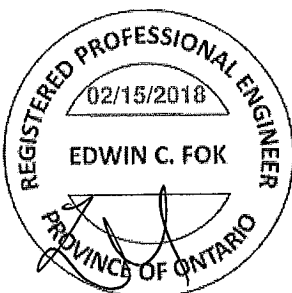
PLATE	GRIP(DRY)	SHEAR	SECTION
(PSI)	(PSI)	(PSI)	(PSI)
MAX	MIN	MAX	MIN
MT20	618	354	1667
			788
			1987
			1656

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.53 (E) (INPUT = 0.90)
JSI METAL= 0.15 (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-18023059

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
292566	H14T	1	2	TRUSS DESC.	

Alpa Roof Truss, Maple

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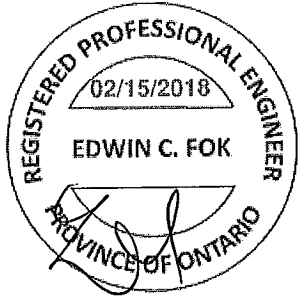
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PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
C	TMWW-I	MT20	4.0	6.0		
D	TMWW-I	MT20	4.0	4.0	2.00	1.00
E	TMV+p	MT20	2.0	4.0		
F	BMVW1-I	MT20	3.0	5.0	1.50	2.25
G	BMWW-I	MT20	4.0	6.0		
H	BBWW-I	MT20	5.0	6.0	3.00	3.00
I	BMWW-I	MT20	3.0	6.0		
J	BVM1-I	MT20	3.0	6.0	Edge	0.25

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



A-18023060(27

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
292566	H15T	6	1	TRUSS DESC.	

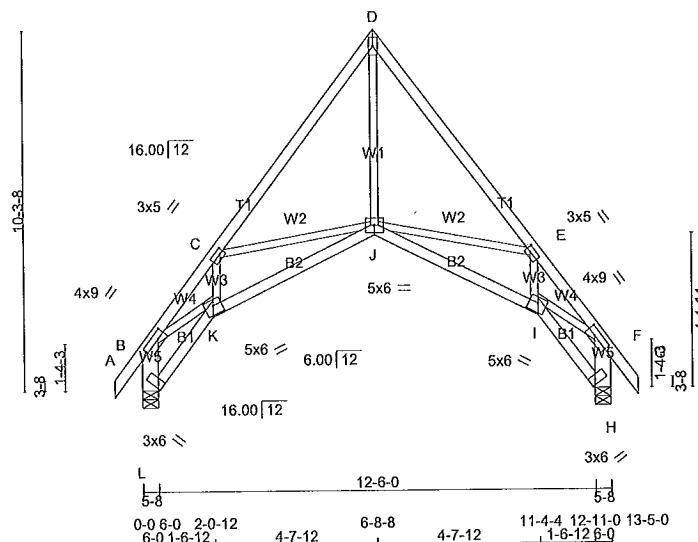
Alpa Roof Truss, Maple

Version 8.200 S Jan 6 2018 MITek Industries, Inc. Thu Feb 15 08:14:42 2018 Page 1

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-9-8-0-0 2-0-12 4-7-12 6-8-8 4-7-12 11-4-4 13-5-0 14-2-8
9-8, 2-0-12, 4-7-12, 6-8-8, 4-7-12, 11-4-4, 13-5-0, 14-2-8, 9-8,
3x6 II

Scale = 1:65.9



TOTAL WEIGHT = 6 X 71 = 425 lb

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

ALL WEBS 2x3 DRY No.2 SPF
EXCEPT

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

BEARINGS	FACTORED		MAXIMUM FACTORED		INPUT	REQRD
	GROSS REACTION	GROSS REACTION	DOWN	HORIZ		
JT	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX
L	718	0	718	0	0	5-8
H	718	0	718	0	0	5-8

UNFACTORED REACTIONS

1ST LCASE	MAX./MIN. COMPONENT REACTIONS						
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
L	510	320/0	0/0	0/0	0/0	191/0	0/0
H	510	320/0	0/0	0/0	0/0	191/0	0/0

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 5.55 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS					WEBS				
MAX. FACTORED		FACTORED			MAX. UNBRAC	MAX. FACTORED		MAX	
MEMB.	FORCE (LBS)	VERT. LOAD (PLF)	LC1	MAX CSI (LC)		MEMB.	FORCE (LBS)		MAX CSI (LC)
FR-TO		FROM	TO	LENGTH	FR-TO				
A-B	0 / 28	-78.0	-78.0	0.05 (1)	10.00	J-D	0 / 758	0.17 (1)	
B-C	-1273 / 0	-78.0	-78.0	0.15 (1)	5.55	J-E	-391 / 0	0.15 (1)	
C-D	-683 / 0	-78.0	-78.0	0.21 (1)	6.25	I-E	0 / 130	0.03 (4)	
D-E	-683 / 0	-78.0	-78.0	0.21 (1)	6.25	C-J	-391 / 0	0.15 (1)	
E-F	-1273 / 0	-78.0	-78.0	0.15 (1)	5.55	K-C	0 / 130	0.03 (4)	
F-G	0 / 28	-78.0	-78.0	0.05 (1)	10.00	B-K	0 / 913	0.21 (1)	
L-B	-699 / 0	0.0	0.0	0.05 (1)	7.81	I-F	0 / 913	0.21 (1)	
H-F	-699 / 0	0.0	0.0	0.05 (1)	7.81				
L-K	0 / 0	-18.5	-18.5	0.02 (4)	10.00				
K-J	0 / 874	-18.5	-18.5	0.21 (1)	10.00				
J-I	0 / 874	-18.5	-18.5	0.21 (1)	10.00				
I-H	0 / 0	-18.5	-18.5	0.02 (4)	10.00				

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMVW-I	MT20	4.0	9.0	2.00	3.00
C	TMVW-I	MT20	3.0	5.0	1.50	1.50
D	TTW+p	MT20	3.0	6.0		
E	TMVW-I	MT20	3.0	5.0	1.50	1.50
F	TMVW-I	MT20	4.0	9.0	2.00	3.00
H	BVM1-I	MT20	3.0	6.0	Edge	
I	BBWW-I	MT20	5.0	6.0	3.00	3.00
J	BBWW-p	MT20	5.0	6.0		
K	BBWW-I	MT20	5.0	6.0	3.00	3.00
L	BVM1-I	MT20	3.0	6.0	Edge	

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

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 (0.45")
CALCULATED VERT. DEFL.(LL) = 1/999 (0.03")
ALLOWABLE DEFL.(TL)= L/360 (0.45")
CALCULATED VERT. DEFL.(TL) = 1/999 (0.08")

CSI: TC=0.21/1.00 (C-D:1), BC=0.21/1.00 (J-K:1), WB=0.21/1.00 (B-K:1), SSI=0.10/1.00 (C-D:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE HEELS OFF

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

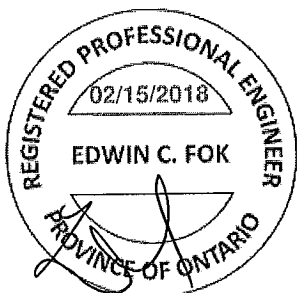
NAIL VALUES
PLATE GRIP(DRY) SHEAR SECTION (PSI) (PLI) (PLI)
MAX MIN MAX MIN MAX MIN
MT20 618 354 1667 788 1987 1656

PLATE PLACEMENT TOL. = 0.250 inches

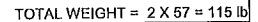
PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.69 (K) (INPUT = 0.90)
JSI METAL = 0.23 (F) (INPUT = 1.00)

A-18023061



Scale = 1:52.8

A-18023062 CONTINUED ON PAGE 2

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
292566	H16	1	2	TRUSS DESC.	

Alpa Roof Truss, Maple

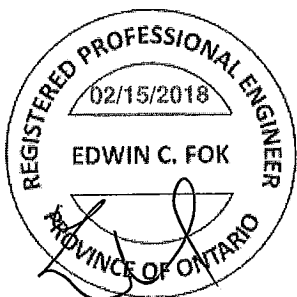
Version 8.200 S Jan 6 2018 MTEK Industries, Inc. Thu Feb 15 08:20:04 2018 Page 2
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PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
A	TMVW-l	MT20	3.0	4.0		
B	TTWW+m	MT20	4.0	6.0		
C	TTW+p	MT20	3.0	5.0	2.00	Edge
D	TTWW+m	MT20	4.0	6.0		
E	TMVW-l	MT20	3.0	4.0		
F	BMV1+p	MT20	2.0	4.0		
G	BMWW-l	MT20	3.0	4.0		
H	BMWWW-l	MT20	4.0	6.0		
I	BMWW-l	MT20	3.0	4.0		
J	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



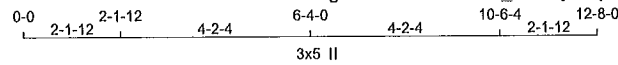
A-180230626

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
292566	H17	3	1	TRUSS DESC.	

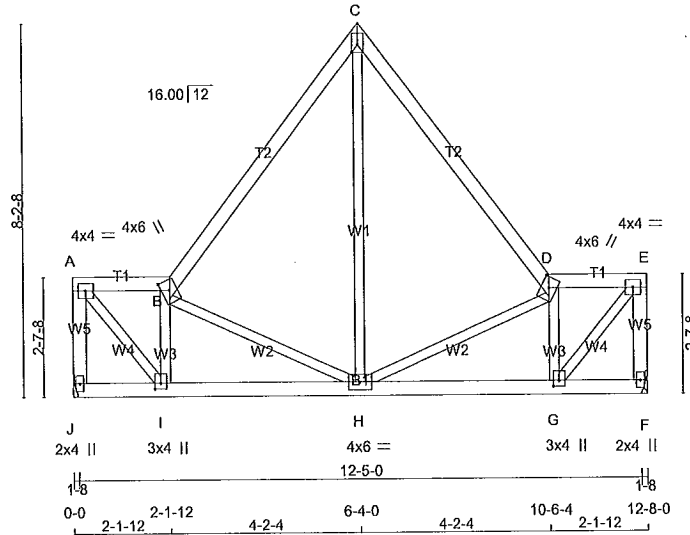
Alpa Roof Truss, Maple

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ID:84gOFYESM8s1JmDO6_uSGRyQWjP-IDgArjkV7nDVcm9KUZr_cNwGn3KefTNEYL95zkz6K



Scale = 1:50.8



TOTAL WEIGHT = 3 X 62 = 185 lb

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

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

BEARINGS		FACTORED		MAXIMUM FACTORED		INPUT		REQRD	
		GROSS REACTION		GROSS REACTION		BRG		BRG	
		VERT	HORZ	DOWN	HORZ	IN-SX	IN-SX		
JT		611	0	611	0	0	0	HANGER BY OTHERS	
J		611	0	611	0	0	0	MIN. SEAT SIZE: 1-8	
F		611	0	611	0	0	0	HANGER BY OTHERS	
								MIN. SEAT SIZE: 1-8	

UNFACTORED REACTIONS

1ST LCASE		MAX./MIN. COMPONENT REACTIONS						
		COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
JT		436	266 / 0	0 / 0	0 / 0	0 / 0	170 / 0	0 / 0
J		436	266 / 0	0 / 0	0 / 0	0 / 0	170 / 0	0 / 0
F		436	266 / 0	0 / 0	0 / 0	0 / 0	170 / 0	0 / 0

BRACING

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

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS		FACTORED		WEBS		FACTORED	
		MAX. FORCE	VERT. LOAD			MAX. FORCE	MAX.
		(LBS)	LC1			(LBS)	CSI (LC)
			FROM TO				
FR-TO				MEMB.			
J-A	-595 / 0	0.0	0.0 0.08 (1)	7.81	A-I	0 / 693	0.16 (1)
A-B	-456 / 0	-78.0	-78.0 0.05 (1)	6.25	I-B	-467 / 0	0.08 (1)
B-C	-417 / 0	-78.0	-78.0 0.18 (1)	6.25	B-H	-257 / 0	0.10 (1)
C-D	-417 / 0	-78.0	-78.0 0.18 (1)	6.25	H-C	0 / 338	0.08 (1)
D-E	-456 / 0	-78.0	-78.0 0.05 (1)	6.25	H-D	-257 / 0	0.10 (1)
F-E	-595 / 0	0.0	0.0 0.08 (1)	7.81	G-D	-467 / 0	0.08 (1)
					G-E	0 / 693	0.16 (1)
J-I	0 / 0	-18.5	-18.5 0.04 (4)	10.00			
I-H	0 / 477	-18.5	-18.5 0.12 (4)	10.00			
H-G	0 / 477	-18.5	-18.5 0.12 (4)	10.00			
G-F	0 / 0	-18.5	-18.5 0.04 (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 ALL FLAT SECTIONS 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.I. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 21.0 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = L/360 (0.42")
CALCULATED VERT. DEFL.(LL) = L/999 (0.01")
ALLOWABLE DEFL.(TL) = L/360 (0.42")
CALCULATED VERT. DEFL.(TL) = L/999 (0.03")

CSI: TC=0.18/1.00 (C-D:1), BC=0.12/1.00 (H-I:4),
WB=0.16/1.00 (A-I:1), SSI=0.08/1.00 (C-D:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

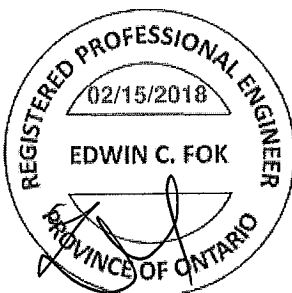
NAIL VALUES
PLATE GRIP(DRY) SHEAR SECTION
(PSI) (PLI) (PLI)
MAX MIN MAX MIN MAX MIN
MT20 618 354 1667 788 1987 1656

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.79 (I) (INPUT = 0.90)
JSI METAL= 0.28 (I) (INPUT = 1.00)

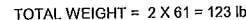
NOTE: Lateral brace(s) shown shall be 1x4 for Part 9 design as per OBC 9.23.13.11, and no less than 2x4 for Part 4 design



A-18023063

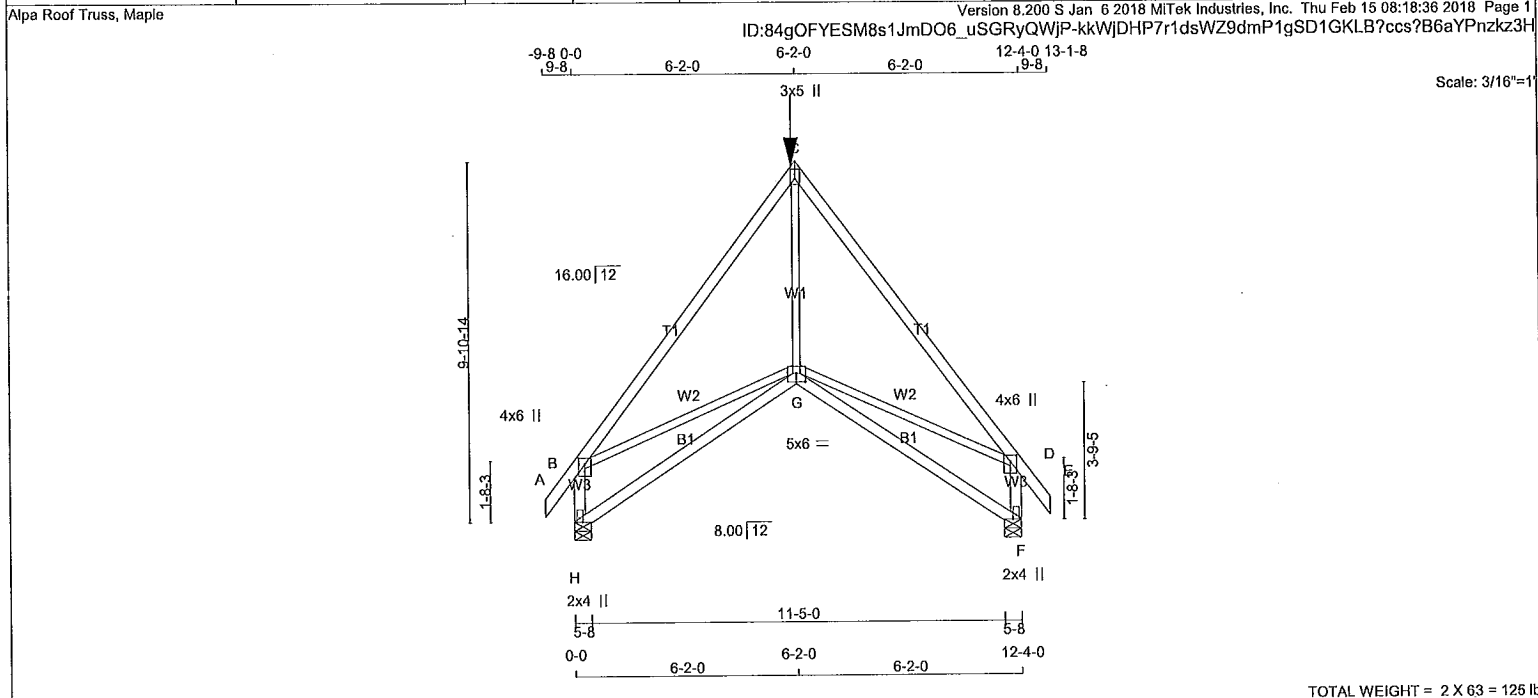
Alpa Roof Truss, Maple

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A-18023064

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
292566	H18A	1	2	TRUSS DESC.	

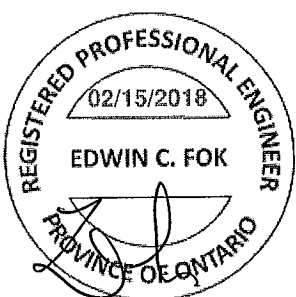


TOTAL WEIGHT = 2 X 63 = 126 lb

LUMBER N. L. G. A. RULES CHORDS SIZE LUMBER DESCR. SPF				DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER BEARINGS								DESIGN CRITERIA			
A - C	2x4	DRY	2100F 1.8E	SPF	FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	REQRD BRG	*** SPECIAL LOADS ANALYSIS *** GEOMETRY AND/OR BASIC LOADS CHANGED BY USER. LOADS WERE DERIVED FROM USER INPUT NO FURTHER MODIFICATIONS WERE MADE						
C - E	2x4	DRY	2100F 1.8E	SPF	JT VERT	HORIZ	DOWN	HORIZ					UPLIFT	IN-SX	IN-SX
H - B	2x4	DRY	No.2	SPF	H 1288	0	1288	0					0	5-8	1-8
F - D	2x4	DRY	No.2	SPF	F 1288	0	1288	0					0	5-8	1-8
H - G	2x4	DRY	No.2	SPF	UNFACTORED REACTIONS 1ST LCASE MAX./MIN. COMPONENT REACTIONS							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			
G - F	2x4	DRY	No.2	SPF											
ALL WEBS	2x3	DRY	No.2	SPF	JT COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL				
EXCEPT					H 928	514 / 0	0 / 0	0 / 0	0 / 0	414 / 0	0 / 0				
DRY: SEASONED LUMBER.					F 928	514 / 0	0 / 0	0 / 0	0 / 0	414 / 0	0 / 0	TOTAL LOAD = 34.4 PSF			
DESIGN CONSISTS OF 2 TRUSSES BUILT SEPARATELY THEN FASTENED TOGETHER AS FOLLOWS:				BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) H, F											
CHORDS #ROWS SURFACE SPACING (IN) LOAD(PLF)				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.											
TOP CHORDS : (0.122"x3") SPIRAL NAILS				ALL PITCH BREAKS AND PERIMETER CORNER JOINTS MUST BE LATERALLY RESTRAINED.											
A - C	1	12	SIDE(65.9)	LOADING TOTAL LOAD CASES: (4)											
C - E	1	12	SIDE(65.9)												
H - B	1	12	TOP												
F - D	1	12	TOP												
BOTTOM CHORDS : (0.122"x3") SPIRAL NAILS				CHORDS MAX. FACTORED FORCE (LBS)											
H - G	1	12	SIDE(9.3)												
G - F	1	12	SIDE(9.3)												
WEBS : (0.122"x3") SPIRAL NAILS															
G - C	1	6	SIDE(128.7)	WEBS MAX. FACTORED FORCE (LBS)											
2x3	1	6													
NAILS TO BE DRIVEN FROM ONE SIDE ONLY.															
GIRDER NAILING ASSUMES NAILED HANGERS ARE FASTENED WITH MIN. 3-0 INCH NAILS.															
TOP - COMPONENTS ARE LOADED FROM THE TOP AND MUST BE PLACED ON TOP EDGE OF ALL PLIES FOR THE LOAD TO BE TRANSFERRED TO EACH PLY.				FR-TO FROM TO A - B 0 / 28 -78.0 -78.0 0.02 (1) 10.00 G - C 0 / 993 0.12 (1) B - C -1546 / 0 -78.0 -78.0 0.22 (1) 6.25 B - G 0 / 1001 0.12 (1) C - D -1546 / 0 -78.0 -78.0 0.22 (1) 6.25 G - D 0 / 1001 0.12 (1) D - E 0 / 28 -78.0 -78.0 0.02 (1) 10.00 H - B -1170 / 0 0.0 0.0 0.07 (1) 7.81 F - D -1170 / 0 0.0 0.0 0.07 (1) 7.81 H - G 0 / 0 -38.5 -38.5 0.24 (4) 10.00 G - F 0 / 0 -38.5 -38.5 0.24 (4) 10.00											
SIDE - PLF SHOWN IS THE EQUIVALENT UDL APPLIED TO ONE SIDE THAT THE CORRESPONDING NAILING PATTERN SHALL BE CAPABLE OF TRANSFERING.															
REMAINING PLF MUST BE APPLIED ON THE OPPOSITE SIDE OR ON THE TOP.															
SIDE - PLF SHOWN IS THE EQUIVALENT UDL APPLIED TO ONE SIDE THAT THE CORRESPONDING NAILING PATTERN SHALL BE CAPABLE OF TRANSFERING.															
REMAINING PLF MUST BE APPLIED ON THE OPPOSITE SIDE OR ON THE TOP.															
SIDE - PLF SHOWN IS THE EQUIVALENT UDL APPLIED TO ONE SIDE THAT THE CORRESPONDING NAILING PATTERN SHALL BE CAPABLE OF TRANSFERING.															
REMAINING PLF MUST BE APPLIED ON THE OPPOSITE SIDE OR ON THE TOP.															

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			
*** 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 (0.41") CALCULATED VERT. DEFL.(LL) = U/999 (0.01") ALLOWABLE DEFL.(TL)= L/360 (0.41") CALCULATED VERT. DEFL.(TL) = U/999 (0.10")			
CSI: TC=0.22/1.00 (B-C:1), BC=0.24/1.00 (G-H:4), WB=0.12/1.00 (B-G:1), SSI=0.07/1.00 (G-H:4)			
DOL LUMBER=1.00 NAIL=1.00 LS BEND=1.00 COMP=1.00 SHEAR=1.00 TENS= 1.00			
COMPANION LIVE LOAD FACTOR = 1.00			

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	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
292566	H18A	1	2	TRUSS DESC.	

Alpa Roof Truss, Maple

PLATES (table is in inches)

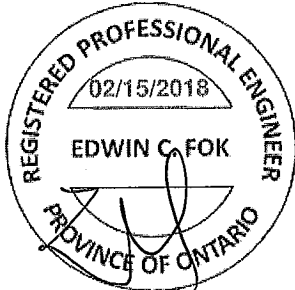
JT	TYPE	PLATES	W	LEN	Y	X
B	TMVW+p	MT20	4.0	6.0	2.00	2.00
C	TTW+p	MT20	3.0	5.0	2.00	Edge
D	TMVW+p	MT20	4.0	6.0	2.00	2.00
F	BMV1+p	MT20	2.0	4.0	Edge	
G	BBWWW-p	MT20	5.0	6.0	2.75	3.00
H	BMV1+p	MT20	2.0	4.0	Edge	

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) 998.6 lbs FACTORED DOWN AT 6-2-0 ON TOP CHORD. DESIGN FOR UNSPECIFIED CONNECTION(S) IS DELEGATED TO THE BUILDING DESIGNER.

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



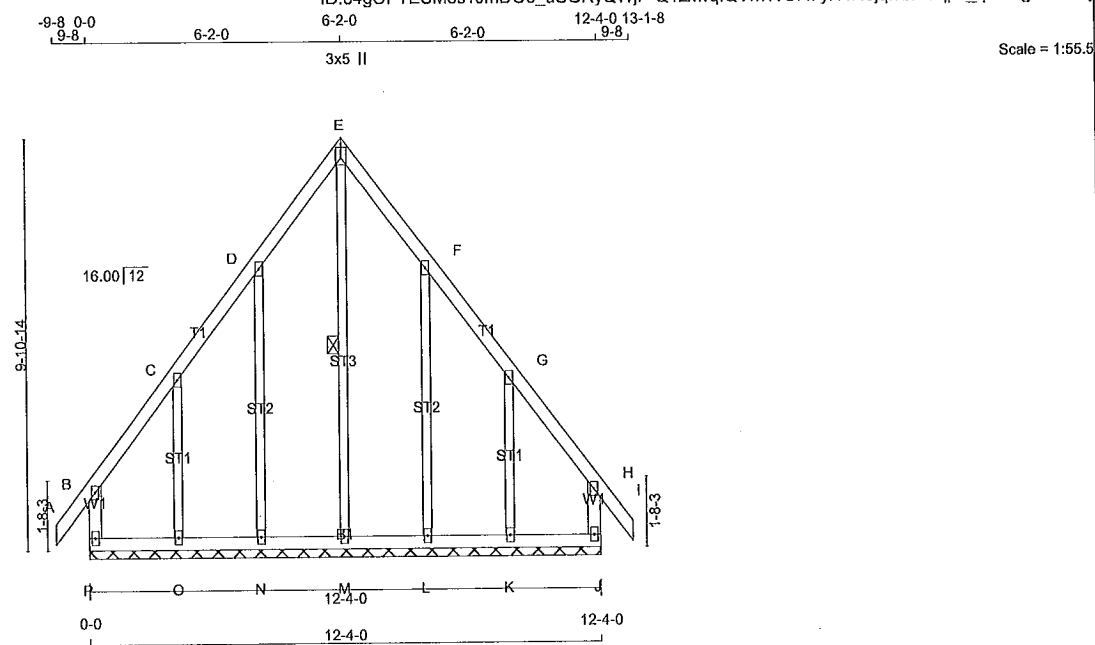
A-18023065(2)

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
292566	H18G	1	1	TRUSS DESC.	

Alpa Roof Truss, Maple

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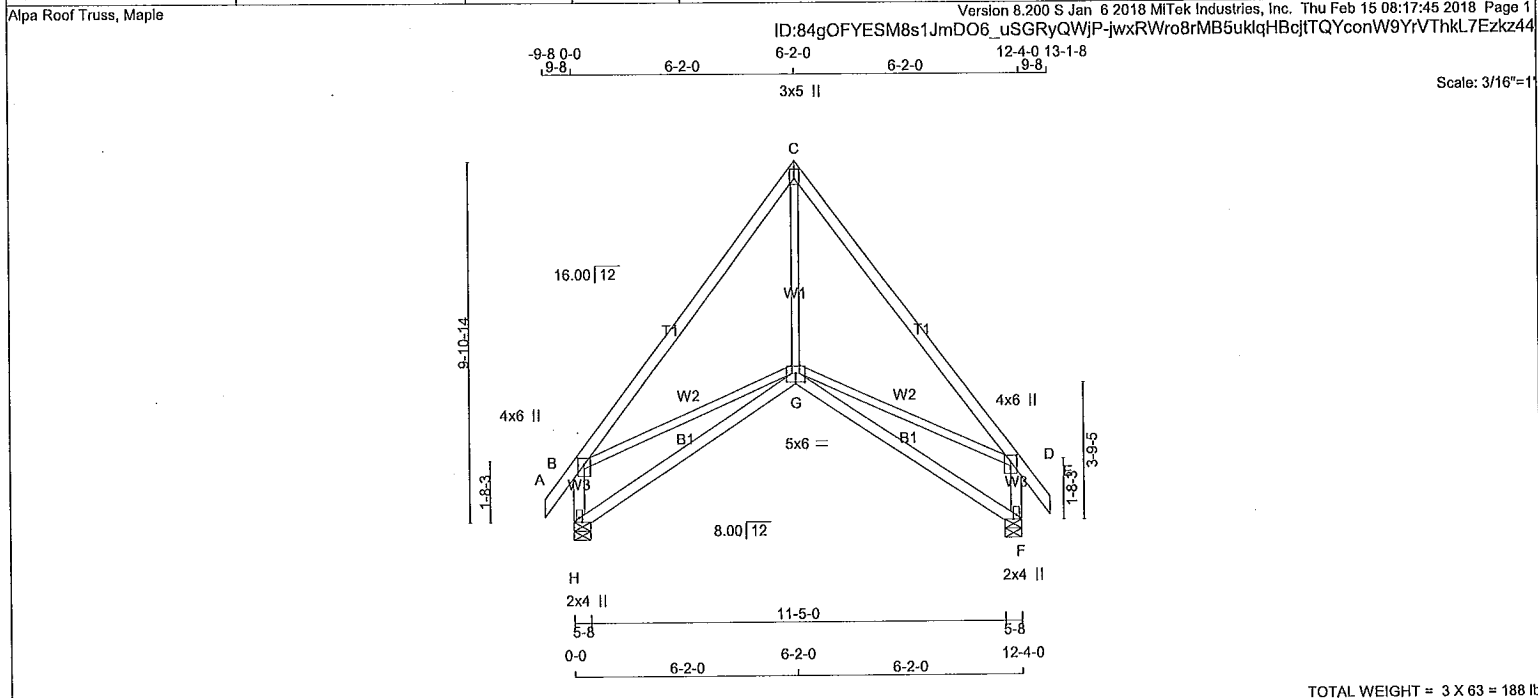
TOTAL WEIGHT = 69 lb

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



A-18023066

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
292566	H18T	3	1	TRUSS DESC.	



LUMBER N. L. G. A. RULES CHORDS SIZE LUMBER DESCR. SPF					DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER										DESIGN CRITERIA				
A - C 2x4 DRY 2100F 1.8E SPF					BEARINGS										SPECIFIED LOADS:				
C - E 2x4 DRY 2100F 1.8E SPF					FACTORED MAXIMUM FACTORED INPUT REQD										TOP CH. LL = 21.0 PSF				
H - B 2x4 DRY No.2 SPF					GROSS REACTION GROSS REACTION BRG BRG										DL = 6.0 PSF				
F - D 2x4 DRY No.2 SPF					JT VERT HORZ DOWN HORZ UPLIFT IN-SX IN-SX										BOT CH. LL = 0.0 PSF				
H - G 2x4 DRY No.2 SPF					H 666 0 666 0 0 5-8 1-8										DL = 7.4 PSF				
G - F 2x4 DRY No.2 SPF					F 666 0 666 0 0 5-8 1-8										TOTAL LOAD = 34.4 PSF				
ALL WEBS 2x3 DRY No.2 SPF					UNFACTORED REACTIONS										SPACING = 24.0 IN. C/C				
EXCEPT					1ST LCASE MAX./MIN. COMPONENT REACTIONS										THIS TRUSS IS DESIGNED FOR RESIDENTIAL				
DRY: SEASONED LUMBER.					JT COMBINED SNOW LIVE PERM.LIVE WIND DEAD SOIL										OR SMALL BUILDING REQUIREMENTS OF				
					H 473 297 / 0 0 / 0 0 / 0 0 / 0 176 / 0 0 / 0										PART 9, NBCC 2010, NBCC 2015				
					F 473 297 / 0 0 / 0 0 / 0 0 / 0 176 / 0 0 / 0										THIS DESIGN COMPLIES WITH:				
					BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) H, F										- PART 9 OF OBC 2012, OBC 2018				
					BRACING										- CSA 086-09, CSA 086-14				
					TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 6.25 FT.										- TPIC 2011, TPIC 2014				
					MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY										(55 % OF 23.0 P.S.F. G.S.L. PLUS 8.4 P.S.F.				
					APPLIED.										RAIN LOAD) EQUALS 21.0 P.S.F. SPECIFIED				
					ALL PITCH BREAKS AND PERIMETER CORNER JOINTS MUST BE Laterally RESTRAINED.										ROOF LIVE LOAD				
					LOADING										ALLOWABLE DEFL.(LL)= L/360 (0.41")				
					TOTAL LOAD CASES: (4)										CALCULATED VERT. DEFL.(LL) = L/999 (0.01")				
					CHORDS WEBS										ALLOWABLE DEFL.(TL)= L/360 (0.41")				
					MEMB. MAX. FACTORED FORCE (LBS) FACTORED VERT. LOAD (PLF) MAX. FACTORED CSI (LC) UNBRAC LENGTH FR-TO MEMB. MAX. FACTORED FORCE (LBS) MAX. FACTORED CSI (LC)										CALCULATED VERT. DEFL.(TL) = L/999 (0.09")				
					FR-TO FROM TO										CSI: TC=0.26/1.00 (B-C:1) , BC=0.21/1.00 (G-H:4)				
					A-B 0 / 28 -78.0 -78.0 0.03 (1) 10.00 G-C 0 / 376 0.08 (1)										, WB=0.08/1.00 (C-G:1) , SSI=0.11/1.00 (B-C:1)				
					B-C -536 / 0 -78.0 -78.0 0.26 (1) 6.25 B-G 0 / 347 0.08 (1)										DOL LUMBER=1.00 NAIL=1.00 LS BEND=1.10				
					C-D -536 / 0 -78.0 -78.0 0.26 (1) 6.25 G-D 0 / 347 0.08 (1)										COMP=1.10 SHEAR=1.10 TENS= 1.10				
					D-E 0 / 28 -78.0 -78.0 0.03 (1) 10.00										COMPANION LIVE LOAD FACTOR = 1.00				
					H-B -609 / 0 0.0 0.0 0.07 (1) 7.81										TRUSS PLATE MANUFACTURER IS NOT				
					F-D -609 / 0 0.0 0.0 0.07 (1) 7.81										RESPONSIBLE FOR QUALITY CONTROL IN				
					H-G 0 / 0 -18.5 -18.5 0.21 (4) 10.00										THE TRUSS MANUFACTURING PLANT .				
					G-F 0 / 0 -18.5 -18.5 0.21 (4) 10.00										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= 0.78 (H) (INPUT = 0.90)				
															JSI METAL= 0.30 (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

02/15/2018

EDWIN C. FOK

REGISTERED PROFESSIONAL ENGINEER

PROVINCE OF ONTARIO

A-18023067

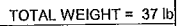
NOTE: Lateral brace(s) shown shall be 1x4 for Part 9 design as per OBC 9.23.13.11, and no less than 2x4 for Part 4 design



Alpa Roof Truss, Maple

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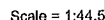
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A-18023068

TRUSS DESC.

Version 8.200 S Jan 6 2018 MiTek Industries, Inc. Thu Feb 15 08:18:02 2018 Page 1
ID:84aQOEYFSM8s1JmDQ6 uSGRvQWIP-ICTs5f?orbLhRLZ5nGQI42dQ9eZT4t?NgLIDlzkz3p



TOTAL WEIGHT = 50 lb

DRY: SEASONED LUMBER.

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

CHORDS				WEBS			
MAX. FACTORED		FACTORED		MAX. FACTORED			
MEMB.	FORCE (LBS)	VERT. LOAD (PLF)	LC1 MAX CSI (LC)	MAX. UNBRAC LENGTH	MEMB.	FORCE (LBS)	MAX CSI (LC)
FR-TO		FROM TO			FR-TO		
A - B	-640 / 0	-78.0	-78.0 0.02 (1)	6.25	H - C	0 / 420	0.09 (1)
B - C	-1354 / 0	-78.0	-78.0 0.27 (1)	5.27	C - G	-1064 / 0	0.74 (1)
C - D	-156 / 0	-78.0	-78.0 0.33 (1)	6.25	G - D	0 / 307	0.07 (4)
D - E	0 / 0	-78.0	-78.0 0.02 (1)	10.00	D - F	-489 / 0	0.21 (1)
F - E	-49 / 0	0.0	0.0 0.02 (1)	7.81	I - B	-347 / 0	0.05 (1)
J - A	-463 / 0	0.0	0.0 0.03 (1)	7.81	A - I	0 / 452	0.10 (1)
					B - H	0 / 785	0.18 (1)
J - I	-1 / 0	-18.5	-18.5 0.01 (4)	10.00			
I - H	0 / 588	-18.5	-18.5 0.10 (1)	10.00			
H - G	0 / 1160	-18.5	-18.5 0.27 (1)	10.00			
G - F	0 / 117	-18.5	-18.5 0.17 (4)	10.00			

JSI GRIP= 0.83 (B) (INPUT = 0.90)
JSI METAL= 0.39 (G) (INPUT = 1.00)

A-18023069

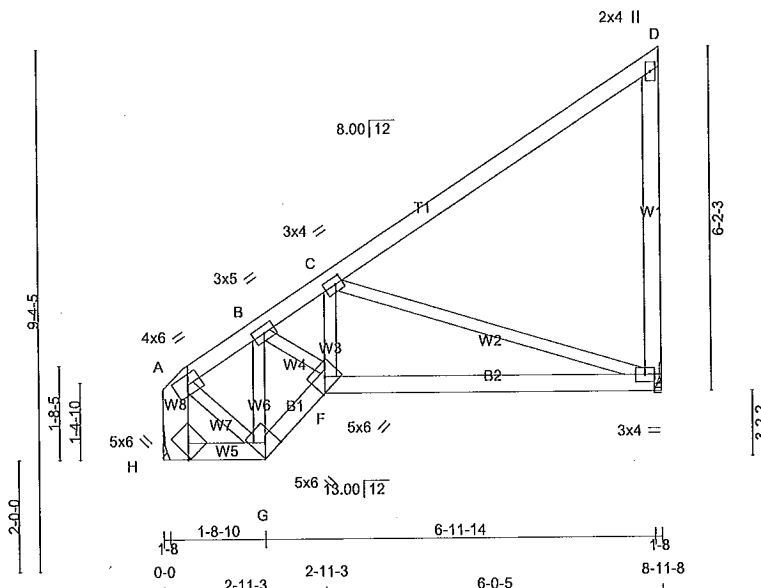
JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
292566	H25	4	1	TRUSS DESC.	

Alpa Roof Truss, Maple

Version 8.200 S Jan 6 2018 MiTek Industries, Inc. Thu Feb 15 08:18:45 2018 Page 1
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0-0-4-8 1-10-2 2-11-3 6-0-5 8-11-8
4-8 1-5-10 1-1-1

Scale = 1:41.3



TOTAL WEIGHT = 4 X 42 = 167 lb

LUMBER	N. L. G. A. RULES	CHORDS	SIZE	LUMBER	DESCR.
H - A	2x6	DRY	No.2	SPF	
A - D	2x4	DRY	No.2	SPF	
E - D	2x4	DRY	No.2	SPF	
G - F	2x4	DRY	No.2	SPF	
F - E	2x4	DRY	No.2	SPF	

ALL WEBS	2x3	DRY	No.2	SPF
EXCEPT				
H - G	2x4	DRY	No.2	SPF

DRY: SEASONED LUMBER.

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	412	0	412	0	0	HANGER BY OTHERS
E	418	0	418	0	0	HANGER BY OTHERS

UNFACTORED REACTIONS

JT	1ST LCASE COMBINED	MAX./MIN. COMPONENT REACTIONS		WIND	DEAD	SOIL
		SNOW	LIVE			
H	291	193 / 0	0 / 0	0 / 0	98 / 0	0 / 0
E	298	183 / 0	0 / 0	0 / 0	115 / 0	0 / 0

BRACING

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

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

LOADING

TOTAL LOAD CASES: (4)

MEMB.	CHORDS MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	LC1 MAX. CSI (LC)	MAX. UNBRACED LENGTH	MEMB. FR-TO	WEBS MAX. FACTORED FORCE (LBS)	
						MAX. FORCE (LBS)	MAX. CSI (LC)
H-A	-420 / 0	0.0	0.0	0.03 (1)	7.81	F-C	-20 / 60
A-B	-277 / 0	-78.0	-78.0	0.08 (1)	6.25	C-E	-589 / 0
B-C	-536 / 0	-78.0	-78.0	0.38 (1)	6.25	H-G	-88 / 0
C-D	-26 / 0	-78.0	-78.0	0.37 (1)	6.25	G-B	-380 / 0
E-D	-185 / 0	0.0	0.0	0.13 (1)	7.81	A-G	0 / 351
						B-F	0 / 472
G-F	0 / 295	-18.5	-18.5	0.05 (1)	10.00		
F-E	0 / 561	-18.5	-18.5	0.24 (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

(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 (0.29")
CALCULATED VERT. DEFL.(LL) = L/999 (0.01")
ALLOWABLE DEFL.(TL)= L/360 (0.29")
CALCULATED VERT. DEFL.(TL) = L/999 (0.07")

CSI: TC=0.38/1.00 (B-C:1), BC=0.24/1.00 (E-F:4), WB=0.38/1.00 (C-E:1), SSI=0.19/1.00 (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

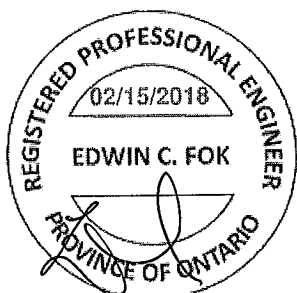
PLATE	GRIP(DRY) (PSI)	SHEAR (PLI)	SECTION (PLI)
MT20	618	354	1667
	788	1987	1656

PLATE PLACEMENT TOL. = 0.250 Inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.89 (F) (INPUT = 0.90)
JSI METAL= 0.21 (E) (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

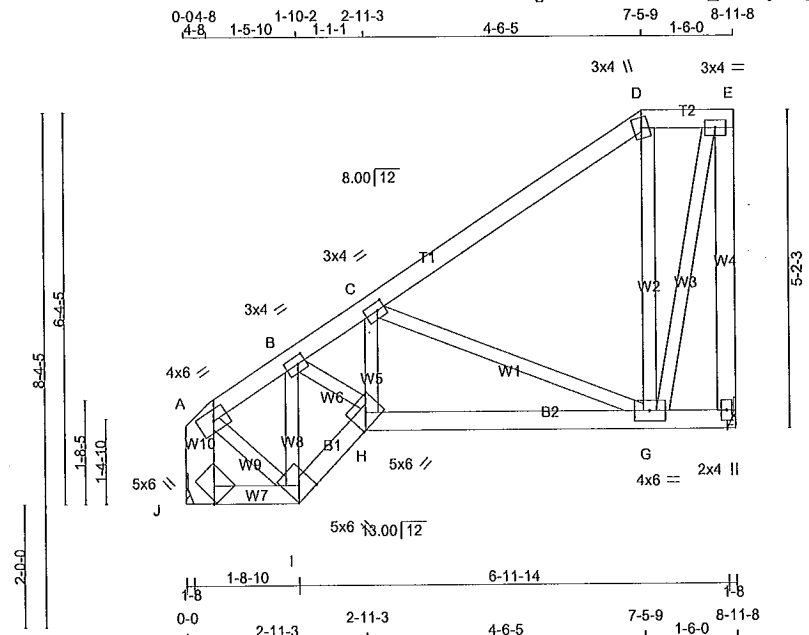


A-18023070

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
292566	H25A	1	1	TRUSS DESC.	

Alpa Roof Truss, Maple

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ID:84gOFYESM8s1JmDO6_uSGRyQWjP-gfIKnBrjM59lq6vYtZg6vpXQbsU52t5tJlSghzkz2j



Scale = 1:37.5

TOTAL WEIGHT = 47 lb

LUMBER

N. L. G. A. RULES

CHORDS	SIZE	LUMBER	DESCR.
J - A	2x6	DRY No.2	SPF
A - D	2x4	DRY No.2	SPF
D - E	2x4	DRY No.2	SPF
F - E	2x4	DRY No.2	SPF
I - H	2x4	DRY No.2	SPF
H - F	2x4	DRY No.2	SPF
ALL WEBS	2x3	DRY No.2	SPF
EXCEPT			
J - I	2x4	DRY No.2	SPF

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
A	TMWW-I	MT20	4.0	6.0		
B	TMWW-t	MT20	3.0	4.0	1.50	1.50
C	TMWW-t	MT20	3.0	4.0	1.50	1.50
D	TTW+m	MT20	3.0	4.0		
E	TMWW-I	MT20	3.0	4.0		
F	BMV1+p	MT20	2.0	4.0		
G	BMWWW-t	MT20	4.0	6.0		
H	BBWW-h	MT20	5.0	6.0	Edge	
I	BWWW*+m	MT20	5.0	6.0	Edge	
J	VMW1*+m	MT20	5.0	6.0	0.25	0.50

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		
J	412	0	412	0	0	HANGER BY OTHERS
F	418	0	418	0	0	HANGER BY OTHERS

MIN. SEAT SIZE: 1-8

UNFACTORED REACTIONS

JT	1ST LCASE COMBINED	MAX./MIN. COMPONENT REACTIONS					SOIL
		SNOW	LIVE	PERM.LIVE	WIND	DEAD	
J	291	193 / 0	0 / 0	0 / 0	0 / 0	98 / 0	0 / 0
F	298	183 / 0	0 / 0	0 / 0	0 / 0	115 / 0	0 / 0

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

LOADING									
TOTAL LOAD CASES: (4)									
CHORDS					WEBS				
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	LC1	MAX. CSI (LC)	MAX. UNBRACED LENGTH	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. CSI (LC)	
FR-TO		FROM	TO			FR-TO			
J-A	-420 / 0	0.0	0.0	0.03 (1)	7.81	H-C	0 / 54	0.02 (4)	
A-B	-283 / 0	-78.0	-78.0	0.05 (1)	6.25	C-G	-417 / 0	0.17 (1)	
B-C	-525 / 0	-78.0	-78.0	0.20 (1)	6.25	G-D	-128 / 0	0.05 (1)	
C-D	-148 / 0	-78.0	-78.0	0.20 (1)	6.25	G-E	0 / 383	0.09 (1)	
D-E	-105 / 0	-78.0	-78.0	0.03 (1)	6.25	J-I	-88 / 0	0.01 (1)	
F-E	-426 / 0	0.0	0.0	0.20 (1)	7.81	I-B	-400 / 0	0.06 (1)	
						A-I	0 / 365	0.08 (1)	
I-H	0 / 312	-18.5	-18.5	0.05 (1)	10.00	B-H	0 / 370	0.08 (1)	
H-G	0 / 492	-18.5	-18.5	0.13 (1)	10.00				
G-F	0 / 0	-18.5	-18.5	0.08 (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 (0.29")
CALCULATED VERT. DEFL.(LL)= 1/ 999 (0.01")
ALLOWABLE DEFL.(TL)= L/360 (0.29")
CALCULATED VERT. DEFL.(TL)= 1/ 999 (0.03")

CSI: TC=0.20/1.00 (B-C:1), BC=0.13/1.00 (G-H:1), WB=0.17/1.00 (C-G:1), SSI=0.13/1.00 (C-D:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

NAIL VALUES

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.82 (E) (INPUT = 0.90)
JSI METAL= 0.17 (A) (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



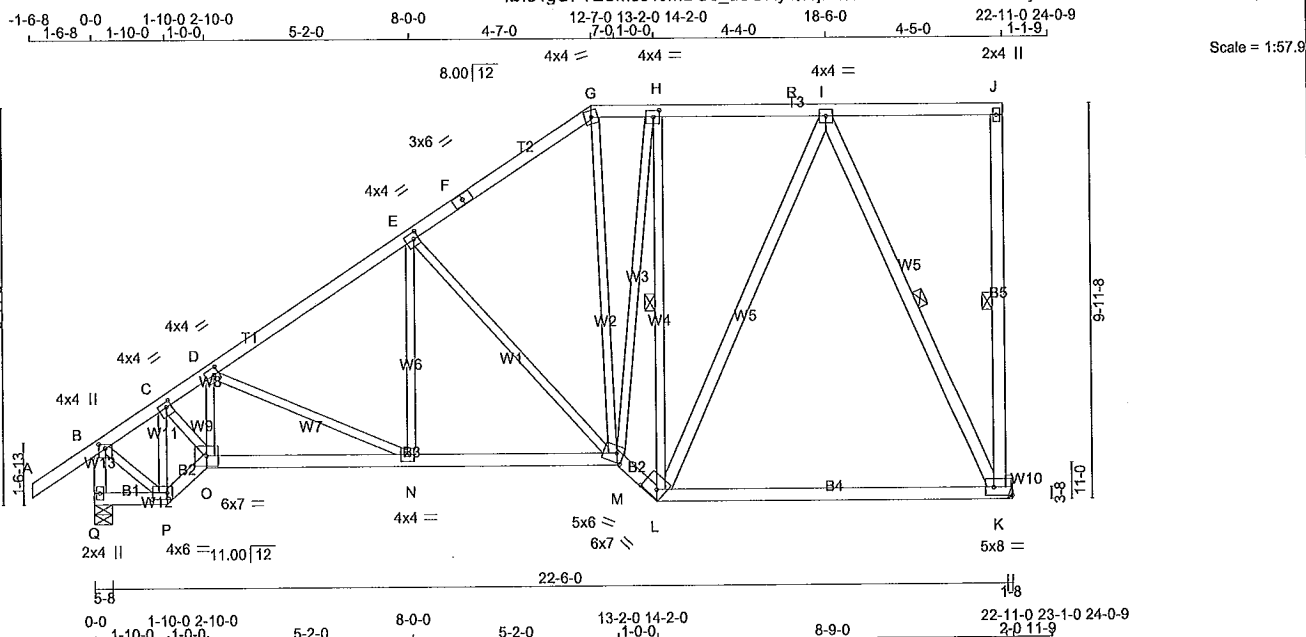
A-18023071

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
292567	H10T	6	1	TRUSS DESC.	

Alpa Roof Truss, Maple

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ID:84gOFYESM8s1JmDO6_uSGRYQWJP-hO207w1NCV1s8sO5NyEGDAkWhn6oUBdX1ukEXqzkyp



TOTAL WEIGHT = 6 X 137 = 821 lb

LUMBER

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

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMWW+p	MT20	4.0	4.0	1.25	2.00
C	TMWW-t	MT20	4.0	4.0	1.50	1.50
D	TMWW-t	MT20	4.0	4.0	2.00	1.50
E	TS-t	MT20	3.0	6.0		
F	TTW-m	MT20	4.0	4.0		
H	TMWW-t	MT20	4.0	4.0	2.00	1.75
I	TMWW-t	MT20	4.0	4.0		
J	TMV+p	MT20	2.0	4.0		
K	BMVWW-t	MT20	5.0	8.0	2.50	Edge
L	BBWW-h	MT20	6.0	7.0	2.25	4.50
M	BBWWW-m	MT20	5.0	6.0	2.75	2.00
N	BMWW-t	MT20	4.0	4.0		
O	BBWW-t	MT20	6.0	7.0		
P	BBWW-t	MT20	4.0	6.0	2.00	4.50
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

	FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	REQRD BRG
JT	VERT	DOWN	IN-SX	IN-SX
Q	1246	0	5-8	1-14
K	1153	0	HANGER BY OTHERS	MIN. SEAT SIZE: 1-8

UNFACTORED REACTIONS

JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
Q	887	548 / 0	0 / 0	0 / 0	0 / 0	339 / 0	0 / 0
K	827	478 / 0	0 / 0	0 / 0	0 / 0	352 / 0	0 / 0

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

BRACING

FOR SECTION G-J, MAX. PURLIN SPACING = 2.00 FT.
FOR OTHER SECTIONS, TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 5.31 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 6.25 FT. OR RIGID CEILING DIRECTLY APPLIED.

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

1 LATERAL BRACE(S) AT 1/2 LENGTH OF H-L, I-K.

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		FROM	TO	FR-TO			
Q-B	-1229 / 0	0.0	0.0	0.13 (1)	7.23	B-P	0 / 852
A-B	0 / 35	-78.0	-78.0	0.15 (1)	10.00	C-O	-1055 / 0
B-C	-903 / 0	-78.0	-78.0	0.12 (1)	6.25	D-N	0 / 998
C-D	-1446 / 0	-78.0	-78.0	0.14 (1)	5.31	O-D	-135 / 0
D-E	-1268 / 0	-78.0	-78.0	0.23 (1)	5.48	E-M	-231 / 0
E-F	-866 / 0	-78.0	-78.0	0.21 (1)	6.25	N-E	0 / 199
F-G	-866 / 0	-78.0	-78.0	0.21 (1)	6.25	M-H	-535 / 0
G-H	-720 / 0	-85.5	-85.5	0.07 (1)	2.00	H-R	0 / 735
H-R	-639 / 0	-85.5	-85.5	0.19 (1)	2.00	L-H	-987 / 0
R-I	-639 / 0	-85.5	-85.5	0.19 (1)	2.00	G-M	0 / 294
I-J	0 / 0	-85.5	-85.5	0.25 (1)	10.00	L-I	0 / 550
Q-P	0 / 0	-18.5	-18.5	0.02 (4)	10.00	I-K	-1022 / 0
P-O	0 / 900	-18.5	-18.5	0.15 (1)	10.00		
O-N	0 / 1272	-18.5	-18.5	0.28 (1)	10.00		
N-M	0 / 1062	-18.5	-18.5	0.24 (4)	10.00		
M-L	0 / 852	-18.5	-18.5	0.14 (1)	10.00		
L-K	0 / 413	-18.5	-18.5	0.44 (4)	10.00		
K-J	-140 / 0	0.0	0.0	0.07 (1)	6.25		

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 PIGGYBACK TRUSS WITH SLOPES OF 6.00/12 AND -6.00/12 AND RESPECTIVE WALL HEIGHTS OF 0-0 AND 0-0 AND AN ADDITIONAL DEAD LOAD OF 3.0 P.S.F.

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 (0.76")
CALCULATED VERT. DEFL.(LL)= L/989 (0.04")
ALLOWABLE DEFL.(TL)= L/360 (0.76")
CALCULATED VERT. DEFL.(TL)= L/989 (0.28")

CSI: TC=0.25/1.00 (I-J:1), BC=0.44/1.00 (K-L:4), WB=0.66/1.00 (H-L:1), SSI=0.18/1.00 (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)	SHEAR (PSI)	SECTION (PLI)
MT20	618	354	1667
	788	1987	1656

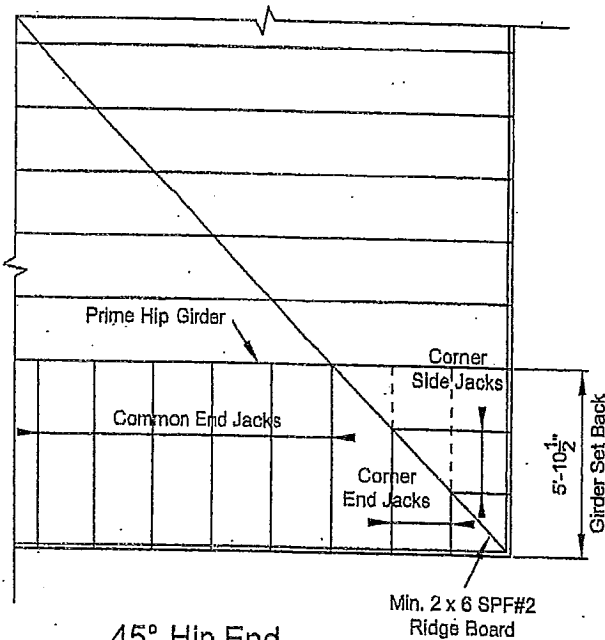
PLATE PLACEMENT TOL. = 0.250 Inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.88 (M) (INPUT = 0.90)
JSI METAL = 0.29 (C) (INPUT = 1.00)



STRACON ENGINEERING INC.



45° Hip End

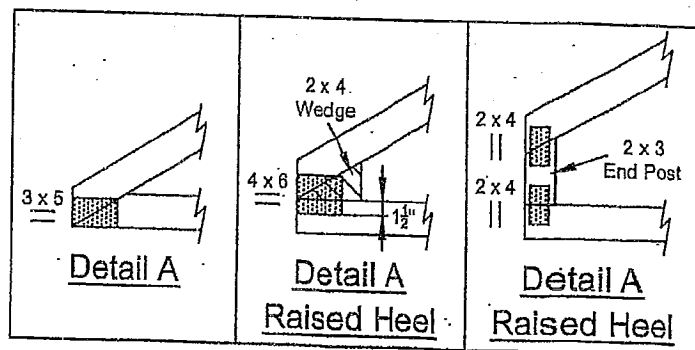
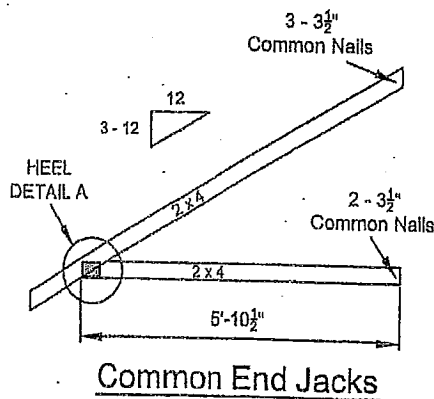
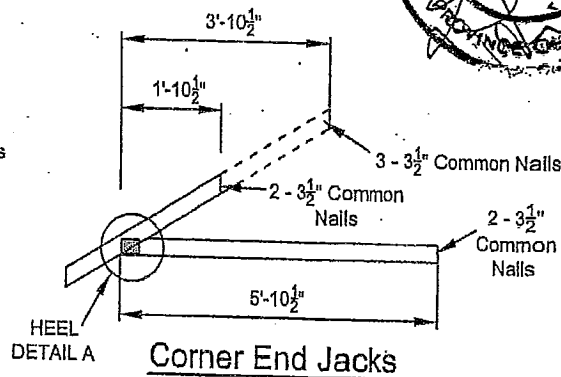
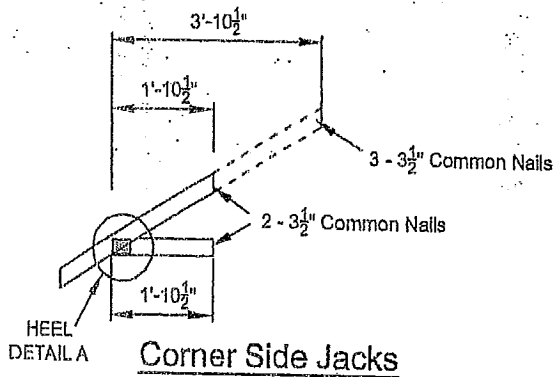
LUMBER SPECIFICATION

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

DESIGN LOAD

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

TOTAL LOAD : 50.5 P.S.F



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

CS-51008

HUS/LJS – Double Shear Joist Hangers



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

Material: See table

Finish: G90 galvanized

Design:

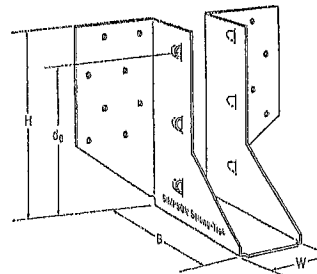
- Factored resistances are in accordance with CSA O86 -14.
- Uplift resistances have been increased 15%. No further increase is permitted.
- Wood shear is not considered in the factored resistances given. The specifier must ensure that the joist and header capacities are capable of withstanding these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

Installation:

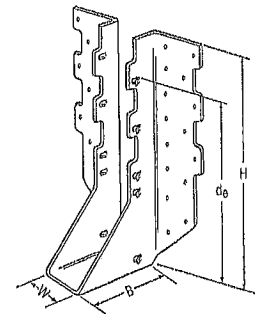
- Use all specified fasteners
- Nails: 16d = 0.162" dia. x 3½" long common wire
- Double shear nails must be driven at an angle through the joist or truss into the header to achieve the table loads
- Not designed for welded or nailer applications

Options:

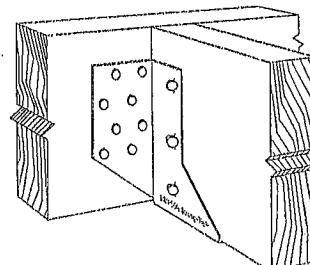
- See current catalogue for options



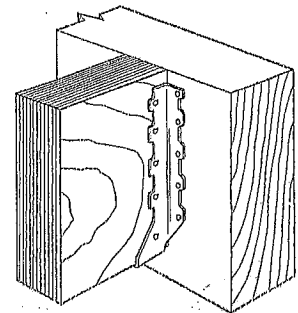
LJS26DS



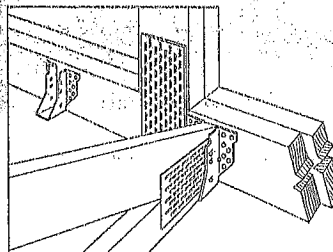
HUS210
(HUS26, HUS28, similar)



Typical LJS26DS
Installation



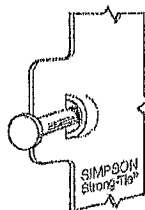
Typical HUS
Installation



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

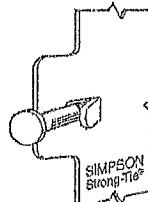
Model No.	Ga.	Dimensions (in.)				Fasteners		Factored Resistance (lb.)			
		W	H	B	d _g ¹	Face	Joist	D.Fir-L		S-P-F	
								Uplift (K ₀ =1.15)	Normal (K ₀ =1.00)	Uplift (K ₀ =1.15)	Normal (K ₀ =1.00)
LJS26DS	18	1⅞	5	3½	4⅝	(16) 16d	(6) 16d	2055	4265	1460	4115
HUS26	16	1⅞	5⅝	3	3⅞⅞	(14) 16d	(6) 16d	2705	4940	2065	3875
HUS28	16	1⅞	7⅝	3	6⅝	(22) 16d	(8) 16d	3605	5365	2675	4345
HUS210	16	1⅞	9⅝	3	7⅞	(30) 16d	(10) 16d	4505	5795	4010	4740
HUS1,81/10	16	1⅞⅞	9	3	8	(30) 16d	(10) 16d	4505	6450	4010	5200

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

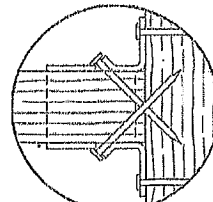


Dome Double Shear Nailing prevents tabs breaking off (available on some models).

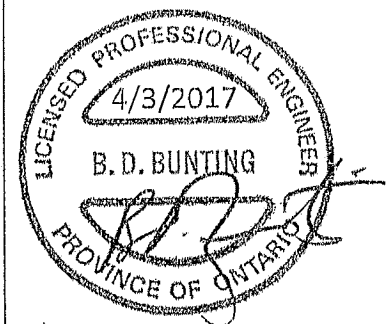
U.S. Patent
5,603,580



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



Double Shear Nailing Top View.



LIMIT
STATES
DESIGN

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-SPEC-HUS17 3/17 exp. 6/19

(800) 999-5099
strongtie.com

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:

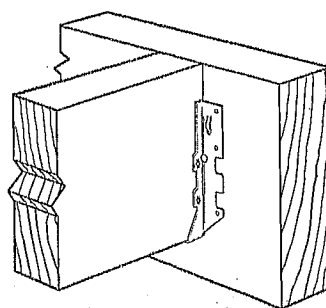
- Factored resistances are in accordance with CSA O86-14.
- Uplift resistances have been increased 15%. No further increase is permitted.
- Wood shear is not considered in the factored resistances given. The specifier must ensure that the joist and header capacities are capable of withstanding these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

Installation:

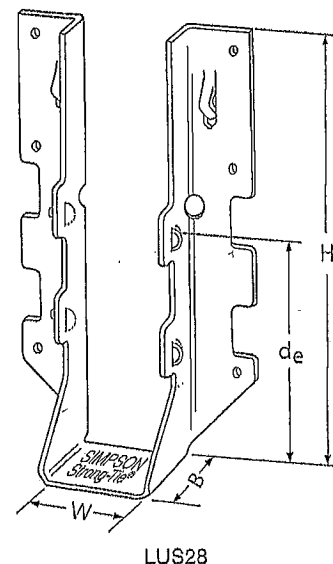
- Use all specified fasteners.
- Nails: 16d = 0.162" dia. x 3½" long common wire,
10d = 0.148" x 3" long common wire.
- Double shear nails must be driven at an angle through the joist or truss into the header to achieve the table loads.
- Not designed for welded or nailer applications.

Options:

- These hangers cannot be modified



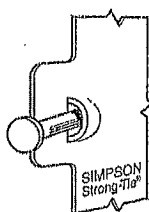
Typical LUS
Installation



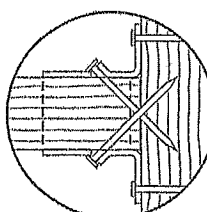
LUS28

Model No.	Ga.	Dimensions (in.)				Fasteners		Factored Resistance (lb.)			
		W	H	B	d _o 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)
LUS24	18	1⅞	3⅞	1⅞	1⅞	(4) 10d	(2) 10d	710	1630	645	1155
LUS24-2	18	3⅞	3⅞	2	1⅞	(4) 16d	(2) 16d	835	2020	590	1435
LUS26	18	1⅞	4⅞	1⅞	3⅞	(4) 10d	(4) 10d	1420	2170	1290	1630
LUS26-2	18	3⅞	4⅞	2	4	(4) 16d	(4) 16d	1720	2595	1545	1920
LUS26-3	18	4⅞	4⅞	2	3¼	(4) 16d	(4) 16d	1720	2595	1545	2340
LUS28	18	1⅞	6⅞	1⅞	3¼	(6) 10d	(6) 10d	1420	2520	1290	1790
LUS28-2	18	3⅞	7	2	4	(6) 16d	(4) 16d	1720	3325	1545	2575
LUS28-3	18	4⅞	6¼	2	3¼	(6) 16d	(4) 16d	1720	3325	1545	2375
LUS210	18	1⅞	7⅞	1⅞	3⅞	(8) 10d	(4) 10d	1420	2785	1290	2210
LUS210-2	18	3⅞	9	2	6	(8) 16d	(6) 16d	2580	4500	2320	3195
LUS210-3	18	4⅞	8⅞	2	5¼	(8) 16d	(6) 16d	2580	3345	2320	2375

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



Dome Double Shear Nailing prevents tabs breaking off (available on some models).
U.S. Patent 5,603,580



Double Shear Nailing
Top View.



LIMIT
STATES
DESIGN

This technical bulletin is effective until June 30, 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 at cs.simpsonstrongtie.com.

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L-SPEC/LUS17/3/17 exp: 6/19

(800) 999-5099
strongtie.com

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:

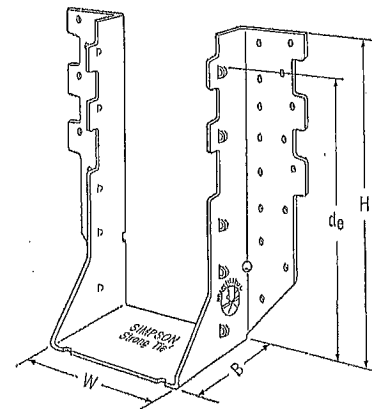
- Factored resistances are in accordance with CSA O86-14.
- Uplift resistances have been increased 15%. No further increase is permitted.
- Wood shear is not considered in the factored resistances given. The specifier must ensure that the joist and header capacities are capable of withstanding these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

Installation:

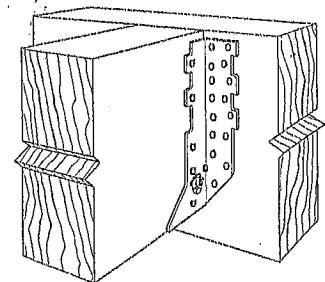
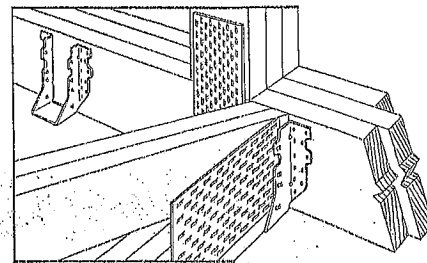
- Use all specified fasteners
- Nails: 16d = 0.162" dia. x 3 1/2" long common wire
- Double shear nails must be driven at an angle through the joist or truss into the header to achieve the table loads
- Not designed for welded or nailer applications

Options:

- See current catalogue for options



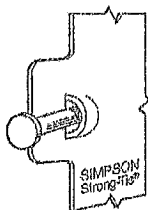
HHUS410



Typical HHUS Installation

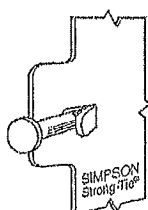
Model No.	Ga.	Dimensions (in.)				Fasteners		Factored Resistance (lb.)			
		W	H	B	d _e ¹	Face	Joist	D.Fir-L		S-P-F	
								Uplift (K ₀ =1.15)	Normal (K ₀ =1.00)	Uplift (K ₀ =1.15)	Normal (K ₀ =1.00)
HHUS26-2	14	3 5/16	5 13/16	3	3 15/16	(14) 16d	(6) 16d	2850	7335	2065	5205
HHUS28-2	14	3 5/16	7 1/2	3	6 5/32	(22) 16d	(8) 16d	3765	8940	2675	6345
HHUS210-2	14	3 5/16	9 3/2	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	6 1/8	8 29/32	3	7 27/32	(30) 16d	(10) 16d	4745	10545	4310	7485
HHUS46	14	3 3/8	5 13/32	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 5/8	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. d_e is the distance from the seat of the hanger to the highest joist nail.

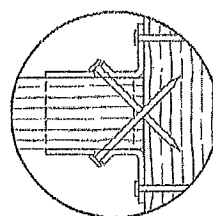


Double Shear Nailing prevents tabs breaking off (available on some models).

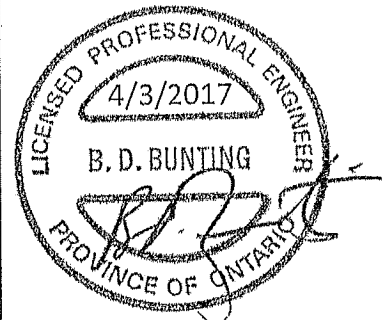
U.S. Patent
5,603,680



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



Double Shear Nailing Top View.



**LIMIT
STATES
DESIGN**

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T-SPECHHUS17 3/17 exp. 6/19

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