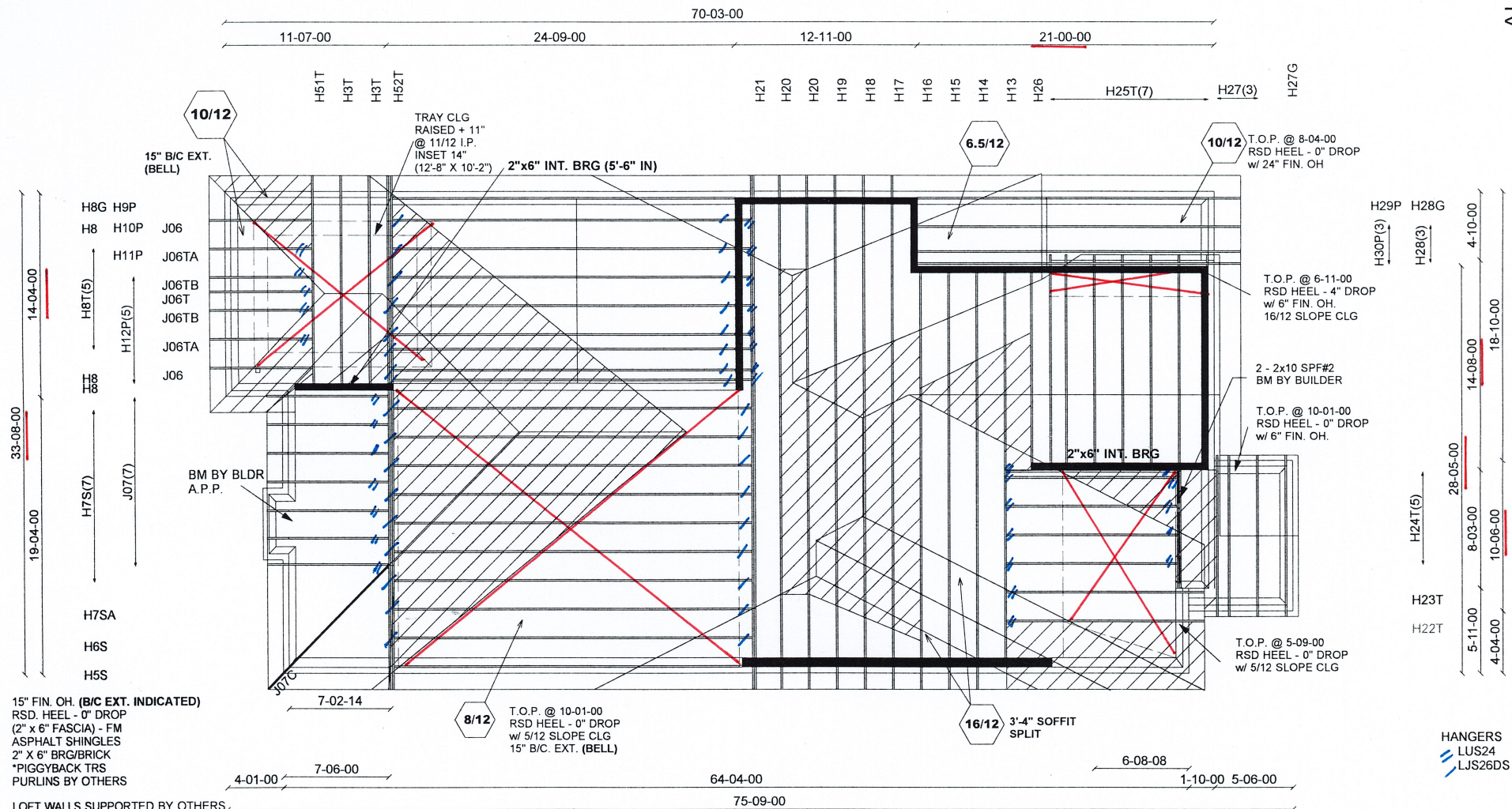




E20035229 - E20035258
E20035264
E20035287 - E20035294

MAPLEWOOD

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

Mitek V. 8.2.0

CONVENTIONAL
FRAMING BY
OTHERS



Job Track: 45147
Layout ID: 318443
Plan Log: 105728

Builder / Location:

GOLD PARK HOMES / VAUGHAN

Project: PINE VALLEY

Date: 2020-03-16 Designer: AMANDA

Model / Elevation:

4201

/ A RU 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.

EWP DESIGN INC.

(905) 832-2250

FAX (905) 832-0286

RESPONSIBILITIES AND SPECIFICATIONS

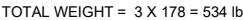
RESPONSIBILITIES

1. EWP DESIGN 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 each drawing meet or exceed the actual dead load imposed by the structure, the live load imposed by the intended use and the snow load imposed by local building code or authorities with jurisdictions.
3. All dimensions are to be verified by the owner, contractor, architect or other authorities with jurisdictions before truss fabrication.
4. EWP DESIGN INC. bears no responsibility for the erection of trusses. Persons erecting trusses are cautioned to seek professional advice regarding the temporary and permanent bracing for the system. Bracing shown on EWP DESIGN INC. drawing is specified for the truss as a component only and forms an integral part of the truss design.
5. It is the truss manufacturer's responsibility to ensure that trusses are manufactured in conformance with specifications of EWP DESIGN INC. as outlined below.

SPECIFICATIONS

1. Trusses designed by EWP DESIGN INC. conform 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, as indicated on the EWP DESIGN INC. drawings, and conform to the design procedures established by the Truss Plate Institute of Canada. Unit stresses used for truss designs are as per the edition of CSA-O86 shown on EWP DESIGN INC. drawings.
2. Lumber is to be the size, species and grade as specified on EWP DESIGN INC. drawings.
3. Moisture content of lumber shall not exceed 19% in service unless specified otherwise.
4. Metal connector plates shall be applied to both faces of truss at each joint and shall be positioned as specified.
5. Top chords of trusses are assumed to be continuously braced laterally by roof sheathing or by purlins at intervals not exceeding 12.5 times the thickness of top chord member.
6. Bottom chords shall be laterally braced at intervals not exceeding 3M (10') o.c., where rigid ceiling is not applied directly to the underside of chords.

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

Scale = 1:56.5

FACTORED CONCENTRATED LOADS (LBS)									
JT	LOC.	LC1	MAX-	MAX+	FACE	DIR.	TYPE	HEEL	CONN.
J	27-4-10	-397	-397	---	FRONT	VERT	TOTAL	---	C1

AUTOSOLVE HEELS OFF

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
318400	H41A		3	TRUSS DESC. JT 45147	E20035228(2)

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
A	TMV+p	MT20	2.0	4.0		
B	TMWW-t	MT20	4.0	6.0	1.75	1.75
C	TTWW-m	MT20	5.0	6.0	2.00	2.25
D	TMWW-t	MT20	4.0	4.0	1.50	2.00
E	TMW+w	MT20	2.0	4.0		
F	TMWW+t	MT20	4.0	6.0	2.00	2.00
G	TS-t	MT20	3.0	6.0		
H	TMW+w	MT20	2.0	4.0		
I	TMWW-t	MT20	4.0	4.0	1.50	2.00
J	TTWW-m	MT20	5.0	6.0	2.00	2.25
K	TMWW-t	MT20	4.0	6.0	1.75	1.75
L	TMV+p	MT20	2.0	4.0		
N	BMVW1-t	MT20	5.0	6.0	2.50	2.75
O	BMWW+t	MT20	4.0	6.0		
P	BMWW-t	MT20	4.0	4.0	2.00	1.50
Q	BS-t	MT20	4.0	6.0		
R	BMWWW+t	MT20	8.0	9.0	Edge	4.00
S	BMWWW1+t	MT20	8.0	9.0	Edge	4.00
T	BS-t	MT20	4.0	6.0		
U	BMWW-t	MT20	4.0	4.0	2.00	1.50
V	BMWW+t	MT20	4.0	6.0		
W	BMVW1-t	MT20	5.0	6.0	2.50	2.75

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

PATTERN-LOADING CHECK APPLIED TO THIS TRUSS.

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

NAIL VALUES

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.90 (F) (INPUT = 0.90)
JSI METAL= 0.95 (F) (INPUT = 1.00)

LATERAL BRACE(S) SHOWN SHALL BE 2X4 SPF#2



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TOTAL WEIGHT = 121 lb

[illegible]

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, NBC2015

THIS DESIGN COMPLIES WITH:

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

LOADING									
TOTAL LOAD CASES: (4)									
CHORDS					WEBS				
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	FACTORED LC1 TO	MAX CSI (LC)	MAX. UNBRAC LENGTH	MEMB. FR-TO	MAX. FACTORED FORCE (LBS)	MAX CSI (LC)	
FR-TO		FROM	TO			FR-TO			
A-B	-2800 / 0	-78.0	-78.0	0.52 (1)	3.75	N-B	-284 / 0	0.05 (1)	
B-C	-2461 / 0	-78.0	-78.0	0.40 (1)	4.08	B-M	-289 / 0	0.17 (1)	
C-D	-1541 / 0	-78.0	-78.0	0.35 (1)	4.95	M-C	0 / 235	0.06 (4)	
D-E	-1541 / 0	-78.0	-78.0	0.35 (1)	4.95	C-K	-814 / 0	0.52 (1)	
E-F	-1189 / 0	-78.0	-78.0	0.17 (1)	5.68	K-E	0 / 623	0.14 (1)	
F-G	-427 / 0	-78.0	-78.0	0.16 (1)	6.25	E-J	-115 / 0	0.05 (1)	
H-G	-1218 / 0	0.0	0.0	0.16 (1)	7.26	J-F	0 / 178	0.05 (4)	
O-A	-1175 / 0	0.0	0.0	0.12 (1)	7.35	F-I	-948 / 0	0.26 (1)	
						I-G	0 / 1172	0.26 (1)	
O-N	0 / 4	-18.5	-18.5	0.14 (4)	10.00	A-N	0 / 2418	0.54 (1)	
N-M	0 / 2534	-18.5	-18.5	0.46 (1)	10.00				
M-L	0 / 2220	-18.5	-18.5	0.41 (1)	10.00				
L-K	0 / 2220	-18.5	-18.5	0.41 (1)	10.00				
K-J	0 / 1376	-18.5	-18.5	0.27 (1)	10.00				
J-I	0 / 1286	-18.5	-18.5	0.23 (1)	10.00				
I-H	0 / 0	-18.5	-18.5	0.00 (4)	10.00				

(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 (0.85")
CALCULATED VERT. DEFL.(LL)= L/ 999 (0.13")
ALLOWABLE DEFL.(TL)= L/ 360 (0.85")
CALCULATED VERT. DEFL.(TL)= L/ 999 (0.26")

CSI: TC=0.52/1.00 (A-B:1) , BC=0.46/1.00 (M-N:1) ,
WB=0.54/1.00 (A-B:1) , SSI=0.17/1.00 (A-B:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

NAIL VALUES

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.89 (A) (INPUT = 0.90)
JSI METAL= 0.72 (L) (INPUT = 1.00)

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TOTAL WEIGHT = 7 X 112 = 783 lb

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

N- M	0 / 4	-18.5	-18.5	0.16 (4)	10.00
M- L	0 / 2581	-18.5	-18.5	0.48 (1)	10.00
L- K	0 / 2082	-18.5	-18.5	0.42 (1)	10.00
K- J	0 / 2082	-18.5	-18.5	0.42 (1)	10.00
J- I	0 / 1183	-18.5	-18.5	0.27 (1)	10.00
I- H	0 / 0	-18.5	-18.5	0.00 (4)	10.00

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

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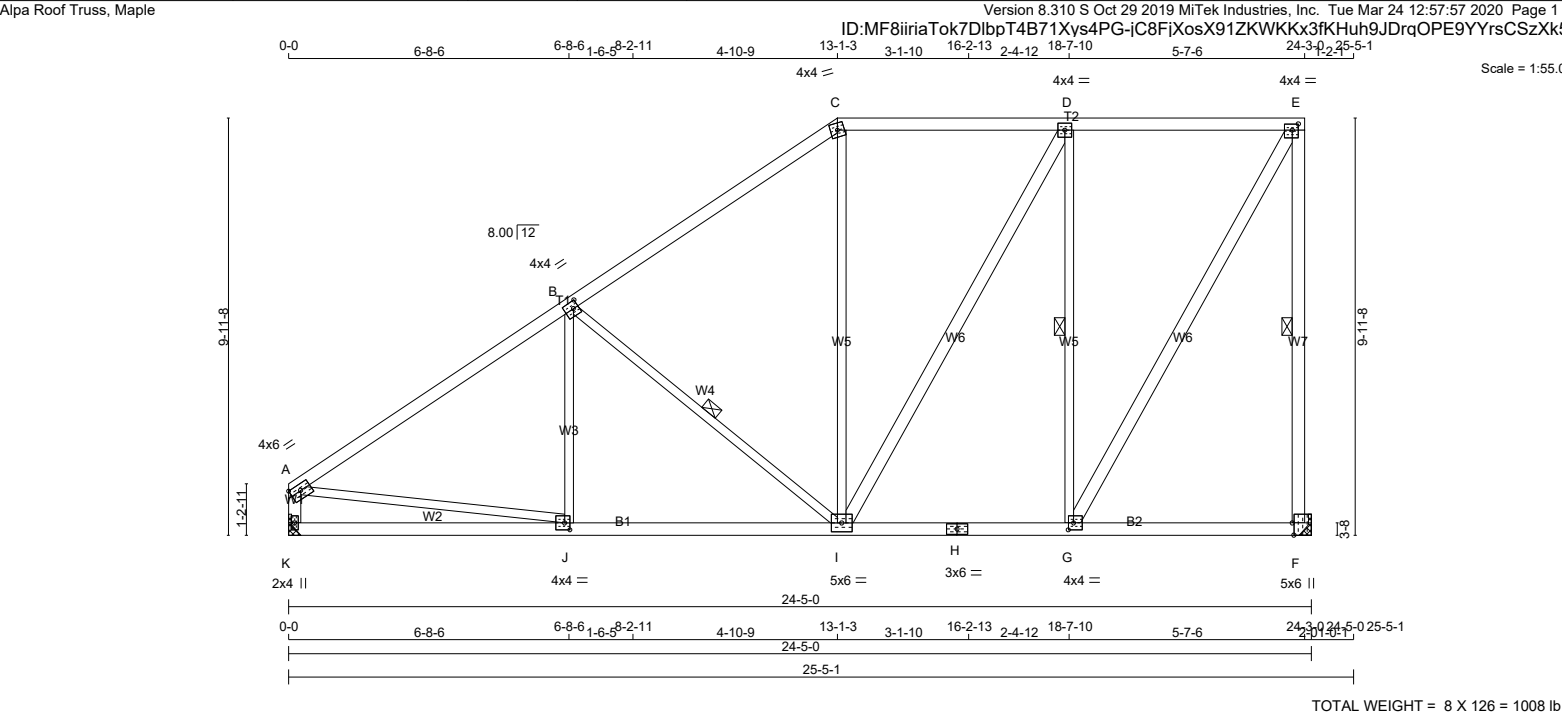
TOTAL WEIGHT = 112 lb

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

N- M	0 / 4	-18.5	-18.5	0.16 (4)	10.00
M- L	0 / 2581	-18.5	-18.5	0.48 (1)	10.00
L- K	0 / 2082	-18.5	-18.5	0.42 (1)	10.00
K- J	0 / 2082	-18.5	-18.5	0.42 (1)	10.00
J- I	0 / 1183	-18.5	-18.5	0.27 (1)	10.00
I- H	0 / 0	-18.5	-18.5	0.00 (4)	10.00

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

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
318400	H8		1	TRUSS DESC. JT 45147	E20035233



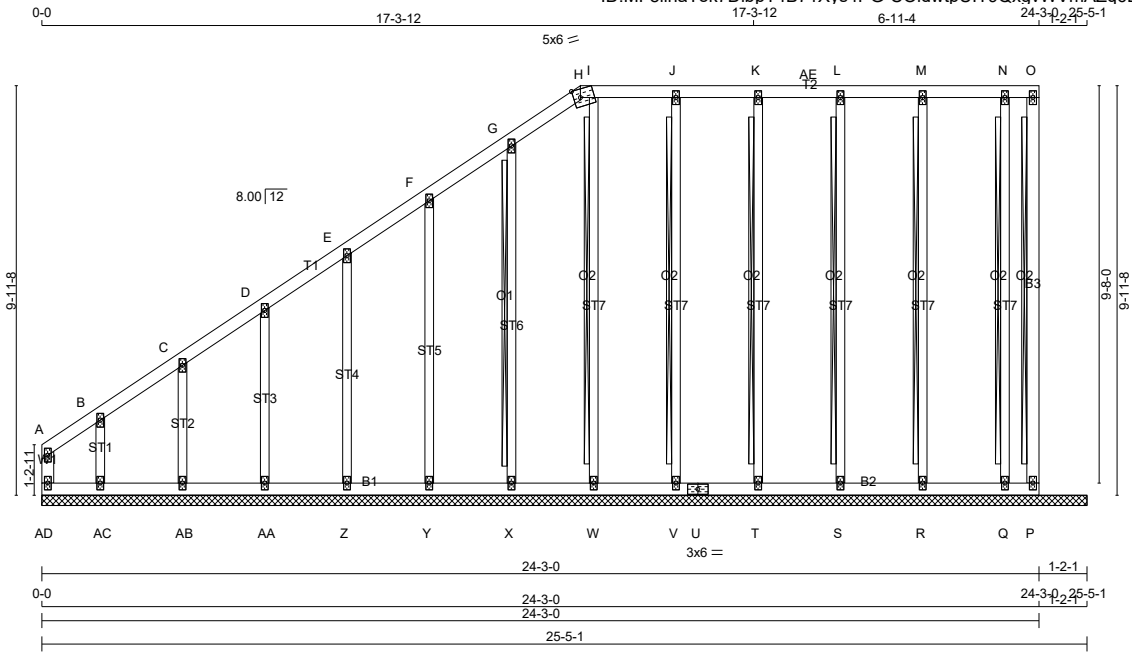
LUMBER N. L. G. A. RULES CHORDS SIZE LUMBER DESCR. K - A 2x4 DRY No.2 SPF A - C 2x4 DRY No.2 SPF C - E 2x4 DRY No.2 SPF K - H 2x4 DRY No.2 SPF H - F 2x4 DRY No.2 SPF ALL WEBS 2x3 DRY No.2 SPF EXCEPT F - E 2x4 DRY No.2 SPF I - D 2x4 DRY No.2 SPF G - E 2x4 DRY No.2 SPF DRY: SEASONED LUMBER.					DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER BEARINGS FACTORED MAXIMUM FACTORED INPUT REQD GROSS REACTION GROSS REACTION BRG BRG JT VERT HORZ DOWN HORZ UPLIFT IN-SX IN-SX K 1181 0 1181 0 0 MECHANICAL F 1226 0 1226 0 0 MECHANICAL A SUITABLE HANGER/MECHANICAL CONNECTION IS REQUIRED AT JOINT K, F. MINIMUM BEARING LENGTH AT JOINT K = 1-8, JOINT F = 1-8. UNFACTORED REACTIONS 1ST LCASE MAX./MIN. COMPONENT REACTIONS JT COMBINED SNOW LIVE PERM.LIVE WIND DEAD SOIL K 844 506 / 0 0 / 0 0 / 0 0 / 0 338 / 0 0 / 0 F 880 506 / 0 0 / 0 0 / 0 0 / 0 374 / 0 0 / 0 BRACING FOR SECTION C-E, MAX. PURLIN SPACING = 2.00 FT. FOR OTHER SECTIONS, TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.96 FT. MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR RIGID CEILING DIRECTLY APPLIED. ALL PITCH BREAKS AND PERIMETER CORNER JOINTS MUST BE Laterally RESTRAINED. 1 LATERAL BRACE(S) AT 1/ 2 LENGTH OF E-F, D-G, B-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 MAX. FACTORED MEMB. FORCE VERT. LOAD LC1 MAX MAX. MEMB. MAX. FACTORED (LBS) (PLF) CSI (LC) UNBRAC LENGTH FR-TO (LBS) MAX FR-TO FROM TO LENGTH FR-TO CSI (LC) K-A -1131 / 0 0.0 0.0 0.11 (1) 7.46 F-E -1185 / 0 0.57 (1) A-B -1362 / 0 -78.0 -78.0 0.50 (1) 4.96 I-C 0 / 132 0.04 (4) B-C -933 / 0 -78.0 -78.0 0.45 (1) 5.78 I-D 0 / 361 0.06 (1) C-D -748 / 0 -85.5 -85.5 0.34 (1) 2.00 G-D -897 / 0 0.60 (1) D-E -571 / 0 -85.5 -85.5 0.33 (1) 2.00 G-E 0 / 1159 0.19 (1) K-J 0 / 0 -18.5 -18.5 0.20 (4) 10.00 A-J 0 / 1172 0.26 (1) J-I 0 / 1162 -18.5 -18.5 0.31 (4) 10.00 J-B -18 / 94 0.03 (4) I-H 0 / 571 -18.5 -18.5 0.19 (4) 10.00 B-I -538 / 0 0.26 (1) H-G 0 / 571 -18.5 -18.5 0.19 (4) 10.00 G-F 0 / 0 -18.5 -18.5 0.13 (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 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, NBC 2015 THIS DESIGN COMPLIES WITH: - PART 9 OF CBC 2018 , ABC 2019 - PART 9 OF OBC 2012 (2019 AMENDMENT) - CSA 086-14 - TPIC 2014 (55 % OF 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 (0.04") ALLOWABLE DEFL.(TL)= L/360 (0.80") CALCULATED VERT. DEFL.(TL) = L/ 999 (0.09") CSI: TC=0.50/1.00 (A-B:1) , BC=0.31/1.00 (I-J:4) , WB=0.60/1.00 (D-G:1) , SSI=0.23/1.00 (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 650 371 1747 788 1987 1873 PLATE PLACEMENT TOL. = 0.250 inches PLATE ROTATION TOL. = 5.0 Deg. JSI GRIP= 0.90 (G) (INPUT = 0.90) JSI METAL= 0.40 (J) (INPUT = 1.00)				
PLATES (table is in inches) JT TYPE PLATES W LEN Y X A TMVW-t MT20 4.0 6.0 1.75 Edge B TMWW-t MT20 4.0 4.0 2.00 1.50 C TTW-m MT20 4.0 4.0 D TMWW-t MT20 4.0 4.0 E TMWW-t MT20 4.0 4.0 1.75 1.75 F BMW1+w MT20 5.0 6.0 Edge 0.50 G BMWW-t MT20 4.0 4.0 2.00 1.50 H BS-t MT20 3.0 6.0 I BMWWW-t MT20 5.0 6.0 J BMWW-t MT20 4.0 4.0 2.00 1.50 K BMV1+p MT20 2.0 4.0 Edge - INDICATES REFERENCE CORNER OF PLATE TOUCHES EDGE OF CHORD.					LATERAL BRACE(S) SHOWN SHALL BE 2X4 SPF#2									

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
318400	H8G		1	TRUSS DESC. JT 45147	E20035234

Alpa Roof Truss, Maple

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ID:MF8iiriaTok7DlbpT4B71Xys4PG-COidwtpUIT9QxqvWVmAZq6ERHdFk7zSlmCaQkuzXk\$



TOTAL WEIGHT = 140 lb [M]

LUMBER				
N. L. G. A. RULES				
CHORDS	SIZE	LUMBER	DESCR.	
AD- A	2x4	DRY	No.2	SPF
A - H	2x4	DRY	No.2	SPF
H - O	2x4	DRY	No.2	SPF
AD- U	2x4	DRY	No.2	SPF
U - P	2x4	DRY	No.2	SPF
P - O	2x4	DRY	No.2	SPF
ALL WEBS EXCEPT	2x3	DRY	No.2	SPF
ALL GABLE WEBS	2x3	DRY	No.2	SPF
DRY: SEASONED LUMBER.				
GABLE STUDS SPACED AT 2'-0" OC.				

PLATES (table is in inches)				
JT	TYPE	PLATES	W	LEN Y X
A	TMV+p	MT20	2.0	4.0
B, C, D, E, F, G, J, K, L, M, N	TMW+w	MT20	2.0	4.0
H	TTW-m	MT20	5.0	6.0 Edge 2.00
I	TMV+p	MT20	2.0	4.0
P	BMV1+p	MT20	2.0	4.0
Q, R, S, T, V, W, X, Y, Z, AA, AB, AC	BMW1+w	MT20	2.0	4.0
U	BS-t	MT20	3.0	6.0
AD	BMV1+p	MT20	2.0	4.0
Edge - INDICATES REFERENCE CORNER OF PLATE TOUCHES EDGE OF CHORD.				

LATERAL BRACE(S) SHOWN SHALL BE 2X4 SPF#2



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

BEARINGS

THIS TRUSS DESIGNED FOR CONTINUOUS BEARINGS.

THIS TRUSS REQUIRES RIGID SHEATHING ON EXPOSED FACE.

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

BRACING

FOR SECTION H-O, MAX. PURLIN SPACING = 2.00 FT.

FOR OTHER SECTIONS, 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.

2x4 DRY SPF No.2 T-BRACE AT O-P, N-Q, M-R, L-S, K-T, J-V, I-W, G-X

FASTEN T AND I-BRACES TO NARROW EDGE OF WEB WITH ONE ROW PER PLY OF 3" COMMON WIRE NAILS @ 6" O.C. WITH 3" MINIMUM END DISTANCE. BRACE MUST COVER 90% OF WEB LENGTH.

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			
AD-A	-58 / 0	0.0 0.0 0.01 (1)	7.81	Q-N	-111 / 0	0.09 (1)	
A-B	-19 / 0	-78.0 -78.0 0.03 (1)	6.25	R-M	-182 / 0	0.14 (1)	
B-C	-14 / 0	-78.0 -78.0 0.04 (1)	6.25	S-L	-170 / 0	0.13 (1)	
C-D	-11 / 0	-78.0 -78.0 0.04 (1)	6.25	T-K	-171 / 0	0.13 (1)	
D-E	-7 / 0	-78.0 -78.0 0.04 (1)	10.00	V-J	-171 / 0	0.13 (1)	
E-F	-5 / 0	-78.0 -78.0 0.04 (1)	10.00	W-I	-169 / 0	0.13 (1)	
F-G	-2 / 0	-78.0 -78.0 0.04 (1)	10.00	X-G	-158 / 0	0.09 (1)	
G-H	-8 / 0	-78.0 -78.0 0.04 (1)	10.00	Y-F	-154 / 0	0.16 (1)	
H-I	0 / 2	-85.5 -85.5 0.04 (1)	2.00	Z-E	-155 / 0	0.09 (1)	
I-J	0 / 0	-85.5 -85.5 0.04 (1)	2.00	AA-D	-153 / 0	0.05 (1)	
J-K	0 / 0	-85.5 -85.5 0.04 (1)	2.00	AB-C	-158 / 0	0.03 (1)	
K-AE	0 / 0	-85.5 -85.5 0.04 (1)	2.00	AC-B	-130 / 0	0.02 (1)	
AE-L	0 / 0	-85.5 -85.5 0.04 (1)	2.00				
L-M	0 / 0	-85.5 -85.5 0.04 (1)	2.00				
M-N	0 / 0	-85.5 -85.5 0.04 (1)	2.00				
N-O	0 / 0	-85.5 -85.5 0.01 (1)	2.00				
AD-AC	0 / 19	-18.5 -18.5 0.01 (4)	10.00				
AC-AB	0 / 13	-18.5 -18.5 0.02 (4)	10.00				
AB-AA	0 / 9	-18.5 -18.5 0.02 (4)	10.00				
AA-Z	0 / 6	-18.5 -18.5 0.01 (4)	10.00				
Z-Y	0 / 4	-18.5 -18.5 0.01 (4)	10.00				
Y-X	0 / 2	-18.5 -18.5 0.01 (4)	10.00				
X-W	0 / 0	-18.5 -18.5 0.01 (4)	10.00				
W-V	0 / 0	-18.5 -18.5 0.01 (4)	10.00				
V-U	0 / 0	-18.5 -18.5 0.01 (4)	10.00				
U-T	0 / 0	-18.5 -18.5 0.01 (4)	10.00				
T-S	0 / 0	-18.5 -18.5 0.01 (4)	10.00				
S-R	0 / 0	-18.5 -18.5 0.02 (4)	10.00				
R-Q	0 / 0	-18.5 -18.5 0.02 (4)	10.00				
Q-P	0 / 0	-18.5 -18.5 0.01 (4)	10.00				
P-O	-22 / 0	0.0 0.0 0.01 (1)	7.81				

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, NBC 2015

THIS DESIGN COMPLIES WITH:

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

(55 % OF 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=0.04/1.00 (L-M:1) , BC=0.02/1.00 (AB-AC:4) , WB=0.16/1.00 (F-Y:1) , SSI=0.07/1.00 (M-N:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.38 (F) (INPUT = 0.90)
JSI METAL= 0.08 (G) (INPUT = 1.00)

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
318400	H9P		1	TRUSS DESC. JT 45147	E20035235

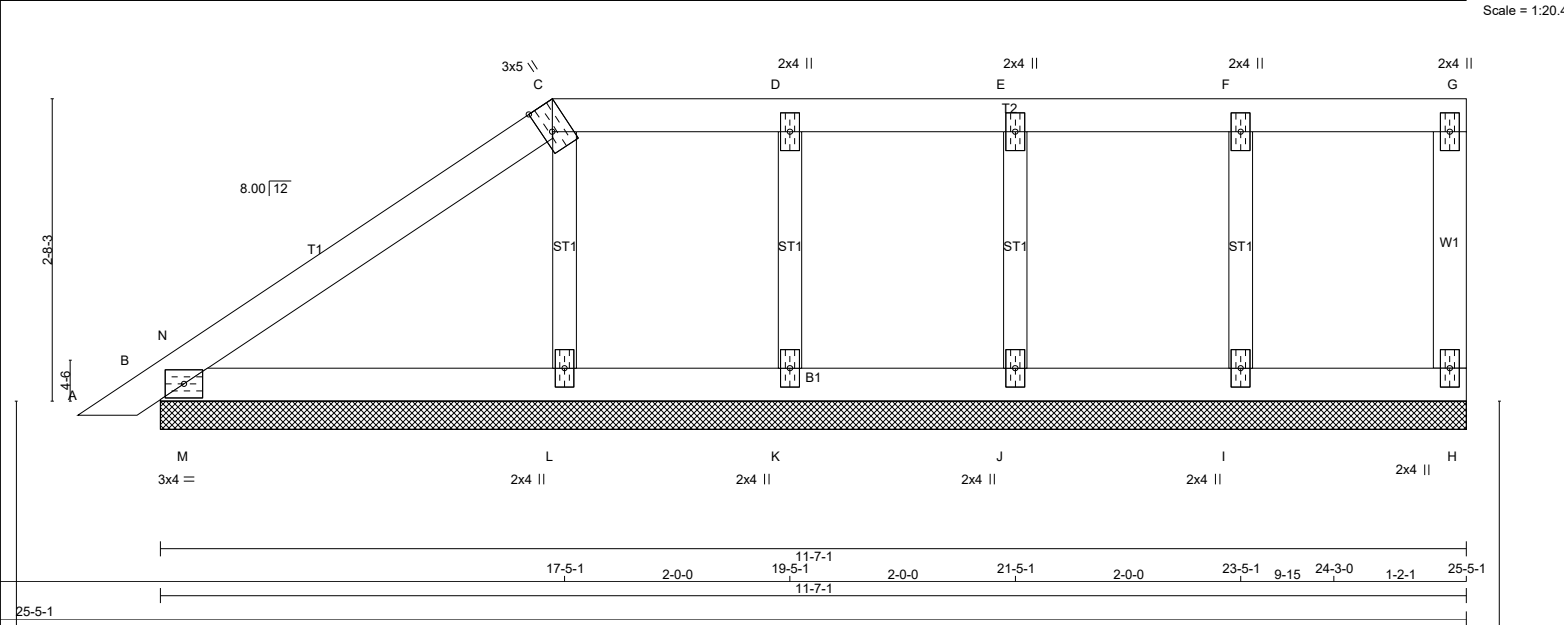
Alpa Roof Truss, Maple

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ID:MF8iiriaTok7DlbpT4B71Xys4PG-gaG?8Dq63mHHZqUi2UhoMJmbs1ZqsShR?sKzGKzXk\$5c

17-3-1217-5-12-0-019-5-12-0-021-5-12-0-023-5-19-1524-3-01-2-125-5-1

Scale = 1:20.4



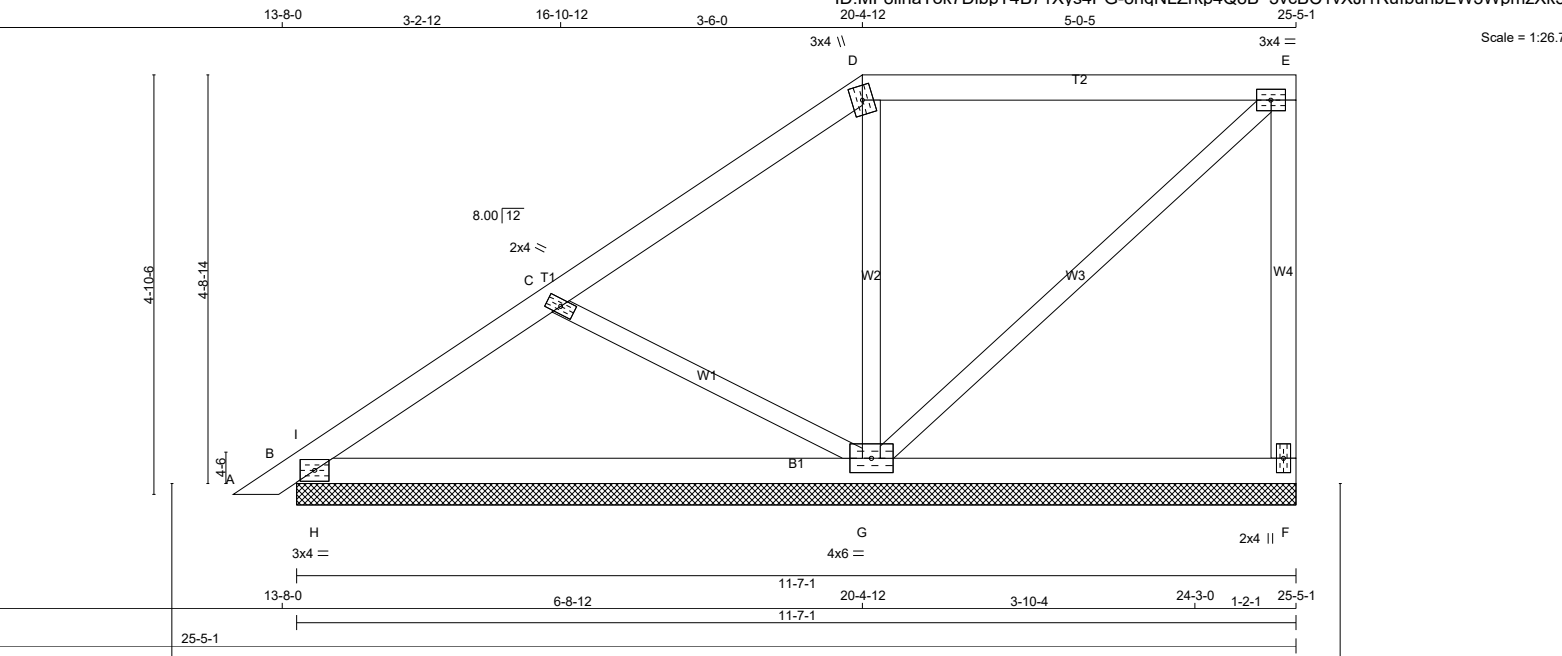
TOTAL WEIGHT = 37 lb

[M]

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 ALL GABLE WEBS 2x3 DRY No.2 SPF DRY: SEASONED LUMBER. GABLE STUDS SPACED AT 2'-0" OC.					DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER BEARINGS THIS TRUSS DESIGNED FOR CONTINUOUS BEARINGS. THIS TRUSS REQUIRES RIGID SHEATHING ON EXPOSED FACE. BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) BRACING TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 6.25 FT. MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED. ALL PITCH BREAKS AND PERIMETER CORNER JOINTS MUST BE Laterally RESTRAINED. LOADING TOTAL LOAD CASES: (4)					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 2015 THIS DESIGN COMPLIES WITH: - PART 9 OF CBC 2018, ABC 2019 - PART 9 OF OBC 2012 (2019 AMENDMENT) - CSA 086-14 - TPIC 2014 (55 % OF 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 TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT . NAIL VALUES PLATE GRIP(DRY) SHEAR SECTION (PSI) (PLI) (PLI) MAX MIN MAX MIN MAX MIN MT20 650 371 1747 788 1987 1873																																																																																																																																							
PLATES (table is in inches) JT TYPE PLATES W LEN Y X B TMB1-I MT20 3.0 4.0 C TTW+h MT20 3.0 5.0 Edge 1.00 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 Edge - INDICATES REFERENCE CORNER OF PLATE TOUCHES EDGE OF CHORD.					<table><tr><th colspan="4">CHORDS</th><th colspan="4">WEBS</th></tr><tr><th>MEMB.</th><th>MAX. FACTORED FORCE (LBS)</th><th>FACTORED VERT. LOAD (PLF)</th><th>LC1 MAX CSI (LC)</th><th>MAX. UNBRAC LENGTH</th><th>MEMB.</th><th>MAX. FACTORED FORCE (LBS)</th><th>MAX CSI (LC)</th></tr><tr><td>FR-TO</td><td></td><td>FROM TO</td><td></td><td></td><td>FR-TO</td><td></td><td></td></tr><tr><td>A-B</td><td>0 / 13</td><td>-78.0 -78.0</td><td>0.02 (1)</td><td>10.00</td><td>I-F</td><td>-176 / 0</td><td>0.03 (1)</td></tr><tr><td>B-N</td><td>-9 / 43</td><td>-78.0 -78.0</td><td>0.04 (1)</td><td>10.00</td><td>J-E</td><td>-145 / 0</td><td>0.02 (1)</td></tr><tr><td>N-C</td><td>-14 / 0</td><td>-78.0 -78.0</td><td>0.12 (1)</td><td>6.25</td><td>K-D</td><td>-183 / 0</td><td>0.03 (1)</td></tr><tr><td>C-D</td><td>0 / 0</td><td>-78.0 -78.0</td><td>0.05 (1)</td><td>10.00</td><td>L-C</td><td>-175 / 0</td><td>0.03 (1)</td></tr><tr><td>D-E</td><td>0 / 0</td><td>-78.0 -78.0</td><td>0.05 (1)</td><td>10.00</td><td>M-N</td><td>-227 / 0</td><td>0.00 (1)</td></tr><tr><td>E-F</td><td>0 / 0</td><td>-78.0 -78.0</td><td>0.04 (1)</td><td>10.00</td><td></td><td></td><td></td></tr><tr><td>F-G</td><td>0 / 0</td><td>-78.0 -78.0</td><td>0.04 (1)</td><td>10.00</td><td></td><td></td><td></td></tr><tr><td>H-G</td><td>-62 / 0</td><td>0.0 0.0</td><td>0.01 (1)</td><td>7.81</td><td></td><td></td><td></td></tr><tr><td>B-M</td><td>0 / 8</td><td>-18.5 -18.5</td><td>0.10 (1)</td><td>10.00</td><td></td><td></td><td></td></tr><tr><td>M-L</td><td>0 / 8</td><td>-18.5 -18.5</td><td>0.10 (1)</td><td>10.00</td><td></td><td></td><td></td></tr><tr><td>L-K</td><td>0 / 0</td><td>-18.5 -18.5</td><td>0.06 (1)</td><td>10.00</td><td></td><td></td><td></td></tr><tr><td>K-J</td><td>0 / 0</td><td>-18.5 -18.5</td><td>0.02 (4)</td><td>10.00</td><td></td><td></td><td></td></tr><tr><td>J-I</td><td>0 / 0</td><td>-18.5 -18.5</td><td>0.02 (4)</td><td>10.00</td><td></td><td></td><td></td></tr><tr><td>I-H</td><td>0 / 0</td><td>-18.5 -18.5</td><td>0.02 (4)</td><td>10.00</td><td></td><td></td><td></td></tr></table>					CHORDS				WEBS				MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	LC1 MAX CSI (LC)	MAX. UNBRAC LENGTH	MEMB.	MAX. FACTORED FORCE (LBS)	MAX CSI (LC)	FR-TO		FROM TO			FR-TO			A-B	0 / 13	-78.0 -78.0	0.02 (1)	10.00	I-F	-176 / 0	0.03 (1)	B-N	-9 / 43	-78.0 -78.0	0.04 (1)	10.00	J-E	-145 / 0	0.02 (1)	N-C	-14 / 0	-78.0 -78.0	0.12 (1)	6.25	K-D	-183 / 0	0.03 (1)	C-D	0 / 0	-78.0 -78.0	0.05 (1)	10.00	L-C	-175 / 0	0.03 (1)	D-E	0 / 0	-78.0 -78.0	0.05 (1)	10.00	M-N	-227 / 0	0.00 (1)	E-F	0 / 0	-78.0 -78.0	0.04 (1)	10.00				F-G	0 / 0	-78.0 -78.0	0.04 (1)	10.00				H-G	-62 / 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	0.02 (4)	10.00			
CHORDS				WEBS																																																																																																																																													
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	LC1 MAX CSI (LC)	MAX. UNBRAC LENGTH	MEMB.	MAX. FACTORED FORCE (LBS)	MAX CSI (LC)																																																																																																																																										
FR-TO		FROM TO			FR-TO																																																																																																																																												
A-B	0 / 13	-78.0 -78.0	0.02 (1)	10.00	I-F	-176 / 0	0.03 (1)																																																																																																																																										
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B-M	0 / 8	-18.5 -18.5	0.10 (1)	10.00																																																																																																																																													
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J-I	0 / 0	-18.5 -18.5	0.02 (4)	10.00																																																																																																																																													
I-H	0 / 0	-18.5 -18.5	0.02 (4)	10.00																																																																																																																																													

LATERAL BRACE(S) SHOWN SHALL BE 2X4 SPF#2





LUMBER				DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER								DESIGN CRITERIA				[M]							
N. L. G. A. RULES		SIZE		LUMBER		DESCR.		BEARINGS		FACTORED		MAXIMUM FACTORED		INPUT		REQRD		SPECIFIED LOADS:					
CHORDS								GROSS REACTION		GROSS REACTION		DOWN		HORIZ		BRG		BRG		TOP CH. LL =			
A - D	2x4	DRY	No.2					JT	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX			DL =		21.0 PSF			
D - E	2x4	DRY	No.2					F	178	0	178	0	0	11-7-1	1-0-3			DL =		6.0 PSF			
F - E	2x4	DRY	No.2					B	328	0	328	0	0	11-7-1	1-0-3			DL =		0.0 PSF			
B - F	2x4	DRY	No.2					G	663	0	663	0	0	11-7-1	1-0-3			DL =		7.4 PSF			
ALL WEBS		2x3	DRY	No.2			SPF										TOTAL LOAD =		34.4 PSF				
DRY: SEASONED LUMBER.																							

UNFACTURED REACTIONS									
1ST LCASE		MAX./MIN. COMPONENT REACTIONS							
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL		
F	127	79 / 0	0 / 0	0 / 0	0 / 0	48 / 0	0 / 0		
B	233	149 / 0	0 / 0	0 / 0	0 / 0	84 / 0	0 / 0		
G	473	286 / 0	0 / 0	0 / 0	0 / 0	187 / 0	0 / 0		
BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) F, B, G									
BRACING									
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 6.25 FT.									
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.									
ALL PITCH BREAKS AND PERIMETER CORNER JOINTS MUST BE Laterally RESTRAINED.									
LOADING									
TOTAL LOAD CASES: (4)									
CHORDS					WEBS				
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. LC1	MAX. UNBRACED LENGTH	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. LC1		
FR-TO		FROM	TO		FR-TO				
A- B	0 / 13	-78.0	-78.0	0.02 (1)	10.00	G- D	-336 / 0	0.11 (1)	
B- I	-382 / 0	-78.0	-78.0	0.11 (4)	6.25	G- E	-73 / 0	0.06 (1)	
I- C	-240 / 0	-78.0	-78.0	0.15 (1)	6.25	C- G	-312 / 0	0.10 (1)	
C- D	0 / 39	-78.0	-78.0	0.16 (1)	10.00	H- I	0 / 179	0.00 (1)	
D- E	0 / 54	-78.0	-78.0	0.34 (1)	10.00				
F- E	-147 / 0	0.0	0.0	0.05 (1)	7.81				
B- H	0 / 226	-18.5	-18.5	0.09 (4)	10.00				
H- G	0 / 226	-18.5	-18.5	0.18 (4)	10.00				
G- F	0 / 0	-18.5	-18.5	0.16 (4)	10.00				

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 2015									
THIS DESIGN COMPLIES WITH: - PART 9 OF CBC 2018 , ABC 2019 - PART 9 OF OBC 2012 (2019 AMENDMENT) - CSA 086-14 - TPIC 2014									
(55 % OF 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=0.34/1.00 (D-E:1) , BC=0.18/1.00 (G-H:4) , WB=0.11/1.00 (D-G:1) , SSI=0.15/1.00 (B-I: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 RIGHT HEEL ONLY									
TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT .									

LATERAL BRACE(S) SHOWN SHALL BE 2X4 SPF#2

LICENSED PROFESSIONAL ENGINEER
Y. WIDYA
100225448
03/24/2020
PROVINCE OF ONTARIO

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH. LL = 21.0 PSF

DL = 6.0 PSF

BOT CH. LL = 0.0 PSF

DL = 7.4 PSF

TOTAL LOAD = 34.4 PSF

SPACING = 24.0 IN. C/C

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

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

THIS DESIGN COMPLIES WITH:

- PART 9 OF BCBC 2018, ABC 2019

- PART 9 OF OBC 2012 (2019 AMENDMENT)

- CSA 086-14

- TPIC 2014

(55 % OF 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=0.34/1.00 (D-E:1), BC=0.18/1.00 (G-H:4), WB=0.11/1.00 (D-G:1), SSI=0.15/1.00 (B-I: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 RIGHT HEEL ONLY

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

NAIL VALUES

PLATE GRIP(DRY) SHEAR SECTION

(PSI) (PLI) (PLI)

MAX MIN MAX MIN MAX MIN

MT20 650 371 1747 788 1987 1873

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.37 (D) (INPUT = 0.90)

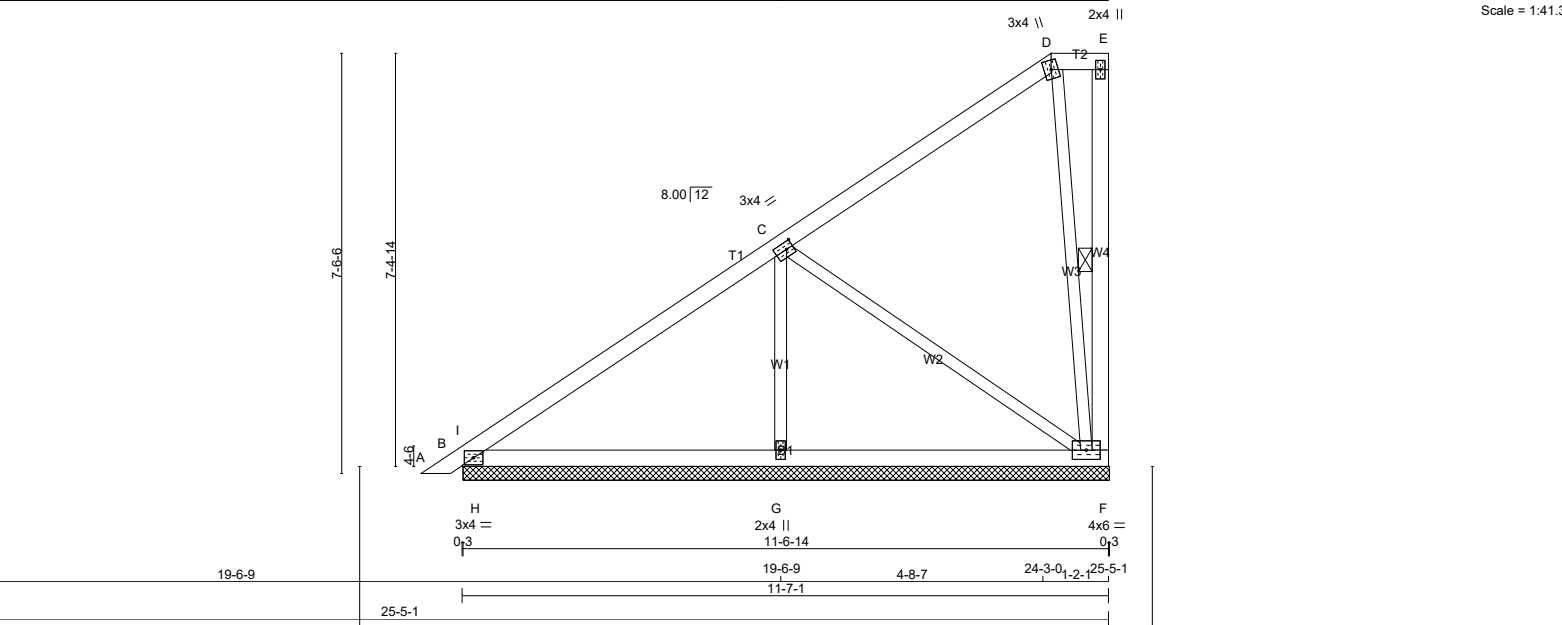
JSI METAL= 0.13 (C) (INPUT = 1.00)

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
318400	H11P		1	TRUSS DESC. JT 45147	E20035237

Alpa Roof Truss, Maple

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LUMBER N. L. G. A. RULES CHORDS SIZE LUMBER				DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER										DESIGN CRITERIA										[M]																														
A - D 2x4 DRY No.2 D - E 2x4 DRY No.2 F - E 2x4 DRY No.2 B - F 2x4 DRY No.2				BEARINGS										SPECIFIED LOADS:																																								
ALL WEBS 2x3 DRY No.2 DRY: SEASONED LUMBER.				FACTORED GROSS REACTION										MAXIMUM FACTORED GROSS REACTION										INPUT BRG										REQD BRG																				
				JT VERT HORZ										DOWN HORZ UPLIFT										IN-SX IN-SX																														
				F 305 0										305 0 0										11-7-1 (11-6-24-15										24-15										TOP CH. LL = 21.0 PSF										
				B 349 0										349 0 0										11-7-1 (11-6-24-15										24-15										DL = 6.0 PSF										
				G 515 0										515 0 0										11-7-1 (11-6-24-15										24-15										BOT CH. LL = 0.0 PSF										
																																												DL = 7.4 PSF										
																																												TOTAL LOAD = 34.4 PSF										

PLATES (table is in inches)					
JT	TYPE	PLATES	W	LEN	Y X
B	TMB1-I	MT20	3.0	4.0	
C	TMWW-t	MT20	3.0	4.0	1.50 1.50
D	TTW+m	MT20	3.0	4.0	
E	TMV+p	MT20	2.0	4.0	
F	BMVWW1-t	MT20	4.0	6.0	
G	BMW1+w	MT20	2.0	4.0	

LATERAL BRACE(S) SHOWN SHALL BE 2X4 SPF#2

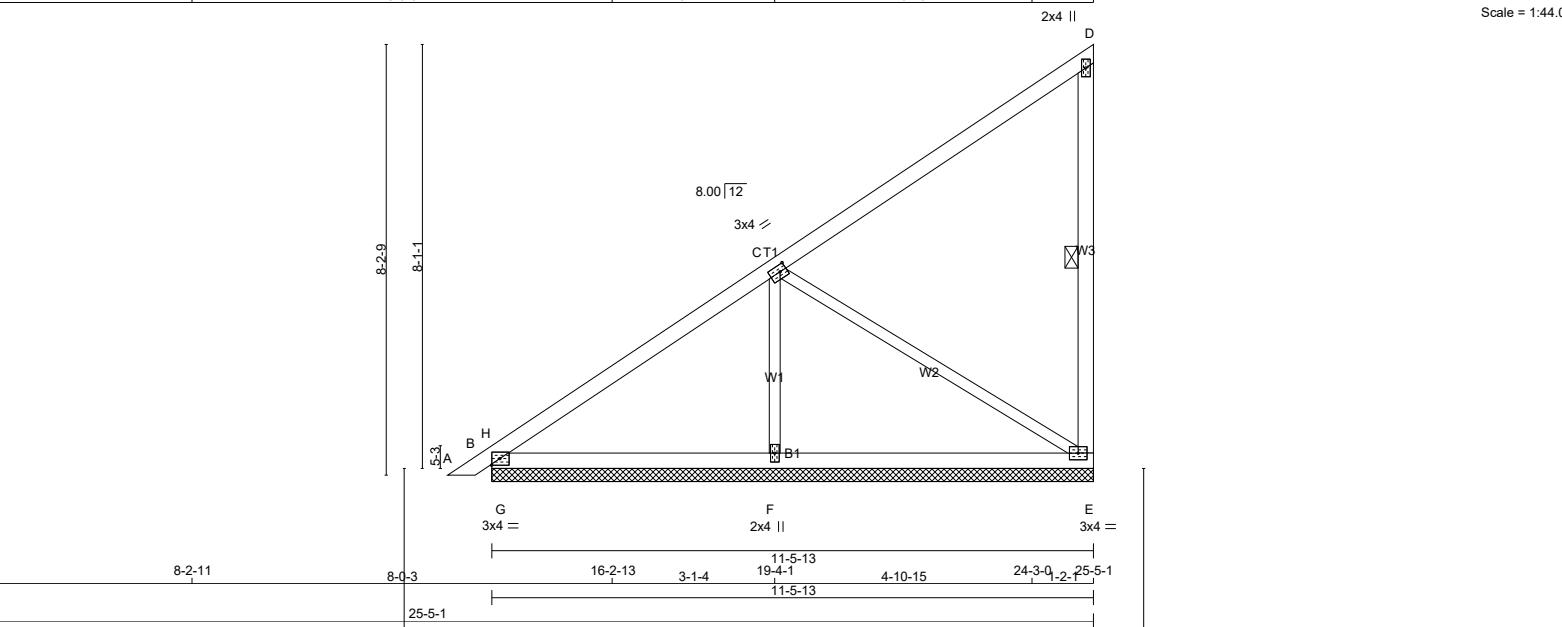


JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
318400	H12P		1	TRUSS DESC. JT 45147	E20035238

Alpa Roof Truss, Maple

Version 8.310 S Oct 29 2019 MiTek Industries, Inc. Tue Mar 24 12:58:01 2020 Page 1

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LUMBER					DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER										DESIGN CRITERIA										[M]																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
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PLATES (table is in inches)						
JT	TYPE	PLATES	W	LEN	Y	X
B	TMB1-I	MT20	3.0	4.0		Edge
C	TMWW-t	MT20	3.0	4.0	1.50	1.50
D	TMV+p	MT20	2.0	4.0		
E	BMVW1-t	MT20	3.0	4.0		
F	BMW1+w	MT20	2.0	4.0		

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

UNFACTORED REACTIONS							
	1ST LCASE	MAX./MIN. COMPONENT REACTIONS					
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
E	222	142 / 0	0 / 0	0 / 0	0 / 0	80 / 0	0 / 0
B	241	161 / 0	0 / 0	0 / 0	0 / 0	80 / 0	0 / 0
F	367	211 / 0	0 / 0	0 / 0	0 / 0	156 / 0	0 / 0

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

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

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

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

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. CSI (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. CSI (LC)	
FR-TO		FROM TO		FR-TO			
A-B	0 / 14	-78.0 -78.0	0.03 (1)	F-C	-363 / 0	0.09 (1)	
B-H	-94 / 0	-78.0 -78.0	0.05 (1)	C-E	-163 / 0	0.15 (1)	
H-C	-139 / 0	-78.0 -78.0	0.42 (1)	G-H	-248 / 11	0.00 (1)	
C-D	-28 / 0	-78.0 -78.0	0.42 (1)				
E-D	-187 / 0	0.0 0.0	0.05 (1)				
B-G	0 / 139	-18.5 -18.5	0.11 (1)				
G-F	0 / 139	-18.5 -18.5	0.19 (4)				
F-E	0 / 139	-18.5 -18.5	0.19 (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

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

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

(55 % OF 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=0.42/1.00 (C-H:1) , BC=0.19/1.00 (F-G:4) , WB=0.15/1.00 (C-E:1) , SSI=0.21/1.00 (B-G:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

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

PLATE PLACEMENT TOL. = 0.250 inches

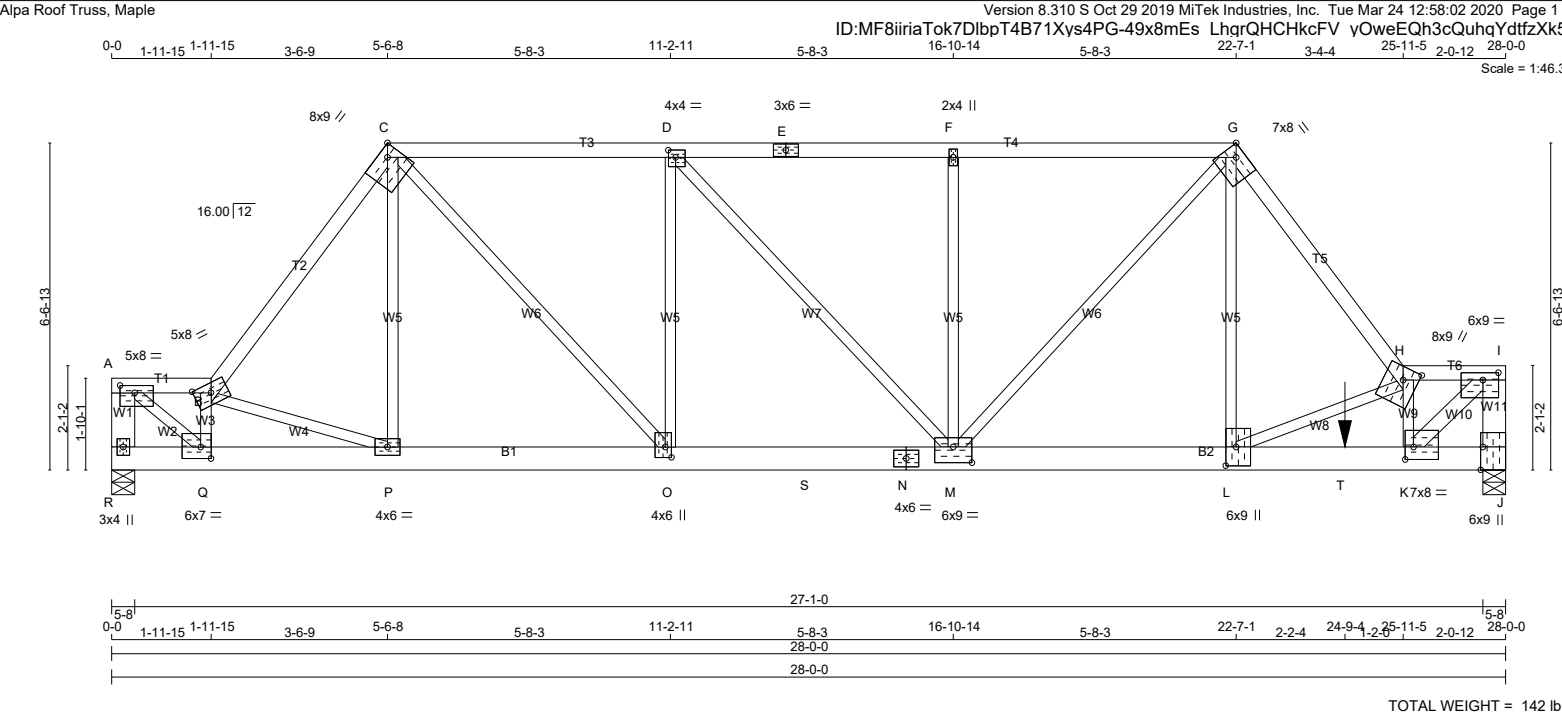
PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.43 (C) (INPUT = 0.90)
JSI METAL= 0.10 (D) (INPUT = 1.00)

LATERAL BRACE(S) SHOWN SHALL BE 2X4 SPF#2



JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
318400	H13		1	TRUSS DESC. JT 45147	E20035239

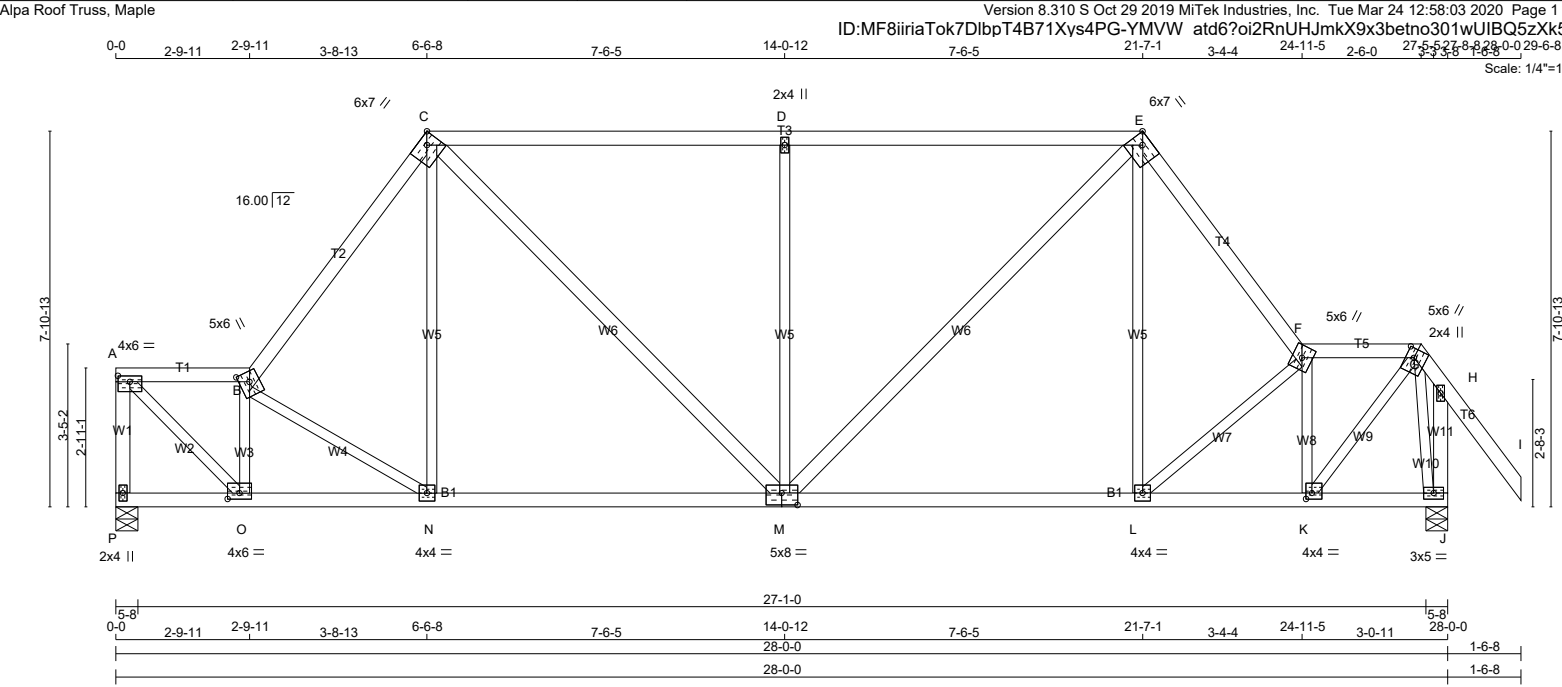


LUMBER N. L. G. A. RULES CHORDS R - A 2x6 DRY No.2 SPF A - B 2x4 DRY No.2 SPF B - C 2x4 DRY No.2 SPF C - E 2x4 DRY No.2 SPF E - G 2x4 DRY No.2 SPF G - H 2x4 DRY No.2 SPF H - I 2x4 DRY No.2 SPF J - I 2x6 DRY No.2 SPF R - N 2x6 DRY 1650F 1.5E SPF N - J 2x6 DRY 1650F 1.5E SPF ALL WEBS 2x3 DRY No.2 SPF EXCEPT K - I 2x4 DRY 1650F 1.5E SPF DRY: SEASONED LUMBER.	DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER BEARINGS FACTORED GROSS REACTION JT VERT 2285 0 R 3974 0 MAXIMUM FACTORED GROSS REACTION DOWN 2285 0 HORZ 3974 0 UPLIFT 0 0 INPUT BRG IN-SX 5-8 5-8 REQRD BRG IN-SX 2-8 5-8 UNFACTORED REACTIONS 1ST LCASE MAX./MIN. COMPONENT REACTIONS JT COMBINED SNOW LIVE PERM.LIVE WIND DEAD SOIL R 1629 995 / 0 0 / 0 0 / 0 635 / 0 0 / 0 J 2833 1729 / 0 0 / 0 0 / 0 1104 / 0 0 / 0 BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) R, J BEARING SIZE FACTOR = 1.15 AT JNT(S) J (BASED ON SUPPORT DEPTH = 1-8) BRACING TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 2.72 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.	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 ALL FLAT SECTIONS BASED ON A SLOPE OF 2.00/12 MINIMUM GIRDER TYPE: CStdGirder START DISTANCE = 14-0-0 START SPAN CARRIED = 12-6-0 END DISTANCE = 24-9-4 END SPAN CARRIED = 12-6-0 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, NBC 2015 THIS DESIGN COMPLIES WITH: - PART 9 OF CBC 2018 , ABC 2019 - PART 9 OF OBC 2012 (2019 AMENDMENT) - CSA 086-14 - TPIC 2014 (55 % OF 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 (0.93") CALCULATED VERT. DEFL.(LL)= L/ 999 (0.16") ALLOWABLE DEFL.(TL)= L/360 (0.93") CALCULATED VERT. DEFL.(TL)= L/ 999 (0.32") CSI: TC=0.79/1.00 (D-F:1), BC=0.78/1.00 (K-L:1), WB=0.86/1.00 (D-O:1), SSI=0.63/1.00 (K-L:1) DOL LUMBER=1.00 NAIL=1.00 LS BEND=1.00 COMP=1.00 SHEAR=1.00 TENS= 1.00 COMPANION LIVE LOAD FACTOR = 1.00 TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT . NAIL VALUES PLATE GRIP(DRY) SHEAR SECTION (PSI) (PLI) (PLI) MAX MIN MAX MIN MAX MIN MT20 650 371 1747 788 1987 1873
PLATES (table is in inches) JT TYPE PLATES W LEN Y X A TMVW-t MT20 5.0 8.0 1.75 3.50 B TTWW-m MT20 5.0 8.0 2.25 4.00 C TTWW-h MT20 8.0 9.0 Edge 2.75 D TMWW-t MT20 4.0 4.0 1.75 1.75 E TS-t MT20 3.0 6.0 F TMW+w MT20 2.0 4.0 G TTWW-h MT20 7.0 8.0 Edge 2.75 H TTWW+m MT20 8.0 9.0 3.00 3.50 I TMVW-t MT20 6.0 9.0 1.75 3.75 J BMV1+t MT20 6.0 9.0 Edge 0.50 K BMWW-t MT20 7.0 8.0 3.00 2.00 L BMWW+t MT20 6.0 9.0 4.50 2.50 M BMWWW-t MT20 6.0 9.0 3.75 4.50 N BS-t MT20 4.0 6.0 O BMWW+t MT20 4.0 6.0 2.50 1.50 P BMWW-t MT20 4.0 6.0 Q BMWW-t MT20 6.0 7.0 2.75 2.50 R BMV1+p MT20 3.0 4.0 Edge - INDICATES REFERENCE CORNER OF PLATE TOUCHES EDGE OF CHORD.	LOADING TOTAL LOAD CASES: (4) CHORDS MEMB. MAX. FACTORED FORCE (LBS) FACTORED VERT. LOAD (PLF) LC1 MAX. FACTORED VERT. LOAD (PLF) CSI (LC) UNBRAC LENGTH FR-TO FR-TO R-A -2081 / 0 0.0 0.0 0.15 (1) 7.00 A-B -2667 / 0 -78.0 -78.0 0.15 (1) 4.10 B-C -3037 / 0 -78.0 -78.0 0.41 (1) 3.68 C-D -3217 / 0 -78.0 -78.0 0.65 (1) 3.29 D-E -3968 / 0 -78.0 -78.0 0.79 (1) 2.86 E-F -3968 / 0 -78.0 -78.0 0.79 (1) 2.86 F-G -3968 / 0 -78.0 -78.0 0.75 (1) 2.91 G-H -4928 / 0 -78.0 -78.0 0.68 (1) 2.72 H-I -4447 / 0 -78.0 -78.0 0.31 (1) 3.08 J-I -3887 / 0 0.0 0.0 0.29 (1) 5.39 R-Q 0 / 0 -18.5 -18.5 0.18 (1) 10.00 Q-P 0 / 2836 -18.5 -18.5 0.41 (1) 10.00 P-O 0 / 1832 -18.5 -18.5 0.21 (1) 10.00 O-S 0 / 3218 -18.5 -18.5 0.55 (1) 10.00 S-N 0 / 3218 -271.7 -271.7 0.55 (1) 10.00 N-M 0 / 3218 -271.7 -271.7 0.55 (1) 10.00 M-L 0 / 3000 -271.7 -271.7 0.58 (1) 10.00 L-T 0 / 4660 -271.7 -271.7 0.78 (1) 10.00 T-K 0 / 4660 -18.5 -18.5 0.78 (1) 10.00 K-J 0 / 0 -18.5 -18.5 0.07 (1) 10.00 FACTORED CONCENTRATED LOADS (LBS) JT LOC. LC1 MAX- MAX+ FACE DIR. TYPE HEEL CONN. T 24-9-4 -830 -830 --- FRONT VERT TOTAL --- C1 CONNECTION REQUIREMENTS 1) C1: A SUITABLE HANGER/MECHANICAL CONNECTION IS REQUIRED.	



LATERAL BRACE(S) SHOWN SHALL BE 2X4 SPF#2

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
318400	H14		1	TRUSS DESC. JT 45147	E20035240



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

DRY: SEASONED LUMBER.

PLATES (table is in inches)					
JT	TYPE	PLATES	W	LEN	Y X
A	TMVW-t	MT20	4.0	6.0	1.50 3.00
B	TTWW+m	MT20	5.0	6.0	2.50 2.50
C	TTWW-h	MT20	6.0	7.0	Edge 2.75
D	TMW+w	MT20	2.0	4.0	
E	TTWW-h	MT20	6.0	7.0	Edge 2.75
F	TTWW+m	MT20	5.0	6.0	
G	TTWW+m	MT20	5.0	6.0	2.25 2.00
H	TMV+p	MT20	2.0	4.0	
J	BMVW1-t	MT20	3.0	5.0	
K	BMWW-t	MT20	4.0	4.0	1.50 1.50
L	BMWW-t	MT20	4.0	4.0	
M	BSWWW-l	MT20	5.0	8.0	3.00 4.00
N	BMWW-t	MT20	4.0	4.0	
O	BMWW-t	MT20	4.0	6.0	1.50 3.00
P	BMV1+p	MT20	2.0	4.0	

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

LATERAL BRACE(S) SHOWN SHALL BE 2X4 SPF#2



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

BEARINGS		FACTORED	MAXIMUM	FACTORED	INPUT	REQRD
		GROSS REACTION	GROSS REACTION	BRG	BRG	
JT	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX
P	1347	0	1347	0	0	5-8
J	1484	0	1484	0	0	5-8

UNFACTORED REACTIONS		1ST LCASE	MAX./MIN. COMPONENT REACTIONS				
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
P	960	586 / 0	0 / 0	0 / 0	0 / 0	375 / 0	0 / 0
J	1055	659 / 0	0 / 0	0 / 0	0 / 0	396 / 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 = 4.11 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

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

LOADING
TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. UNBRACED LENGTH	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. UNBRACED LENGTH	
FR-TO	FROM	TO		FR-TO	FROM	TO	
P-A	-1310 / 0	0.0	0.0 0.19 (1)	7.06	A-O	0 / 1752	0.39 (1)
A-B	-1255 / 0	-78.0	-78.0 0.12 (1)	5.61	O-B	-1205 / 0	0.21 (1)
B-C	-1499 / 0	-78.0	-78.0 0.25 (1)	5.12	B-N	-487 / 0	0.17 (1)
C-D	-1303 / 0	-78.0	-78.0 0.90 (1)	4.13	N-C	0 / 420	0.09 (1)
D-E	-1309 / 0	-78.0	-78.0 0.90 (1)	4.11	C-M	0 / 567	0.09 (1)
E-F	-1467 / 0	-78.0	-78.0 0.20 (1)	5.21	M-D	-714 / 0	0.84 (1)
F-G	-1114 / 0	-78.0	-78.0 0.09 (1)	5.90	D-E	0 / 598	0.10 (1)
G-H	-136 / 0	-78.0	-78.0 0.15 (1)	6.25	L-E	0 / 391	0.09 (1)
H-I	0 / 52	-78.0	-78.0 0.15 (1)	10.00	L-F	-366 / 0	0.13 (1)
J-H	-323 / 0	0.0	0.0 0.05 (1)	7.81	K-F	-1179 / 0	0.24 (1)
					K-G	0 / 1490	0.34 (1)
					G-J	-1148 / 0	0.23 (1)
P-O	0 / 0	-18.5	-18.5 0.05 (4)	10.00			
O-N	0 / 1304	-18.5	-18.5 0.34 (4)	10.00			
N-M	0 / 905	-18.5	-18.5 0.31 (4)	10.00			
M-L	0 / 886	-18.5	-18.5 0.31 (4)	10.00			
L-K	0 / 1153	-18.5	-18.5 0.34 (4)	10.00			
K-J	0 / 227	-18.5	-18.5 0.08 (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

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, NBC 2015

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

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 (0.93")
CALCULATED VERT. DEFL.(LL) = L/999 (0.05")
ALLOWABLE DEFL.(TL)= L/360 (0.93")
CALCULATED VERT. DEFL.(TL) = L/999 (0.18")

CSI: TC=0.90/1.00 (D-E:1), BC=0.34/1.00 (N-O:4), WB=0.84/1.00 (D-M:1), SSI=0.29/1.00 (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.

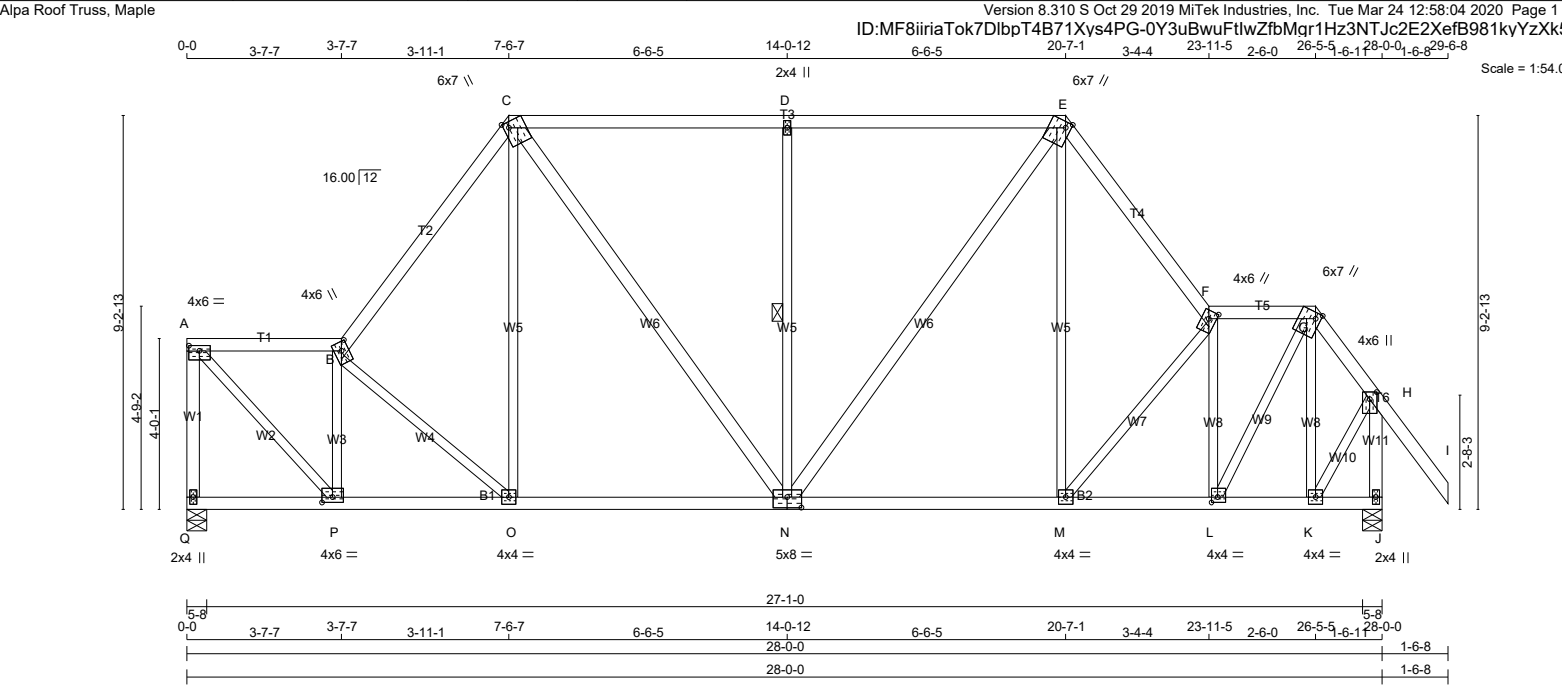
NAIL VALUES					
PLATE	GRIP(DRY)	SHEAR	SECTION		
	(PSI)	(PLI)	(PLI)		
	MAX	MIN	MAX	MIN	MAX
MT20	650	371	1747	788	1987

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.89 (E) (INPUT = 0.90)
JSI METAL= 0.36 (M) (INPUT = 1.00)

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
318400	H15		1	TRUSS DESC. JT 45147	E20035241



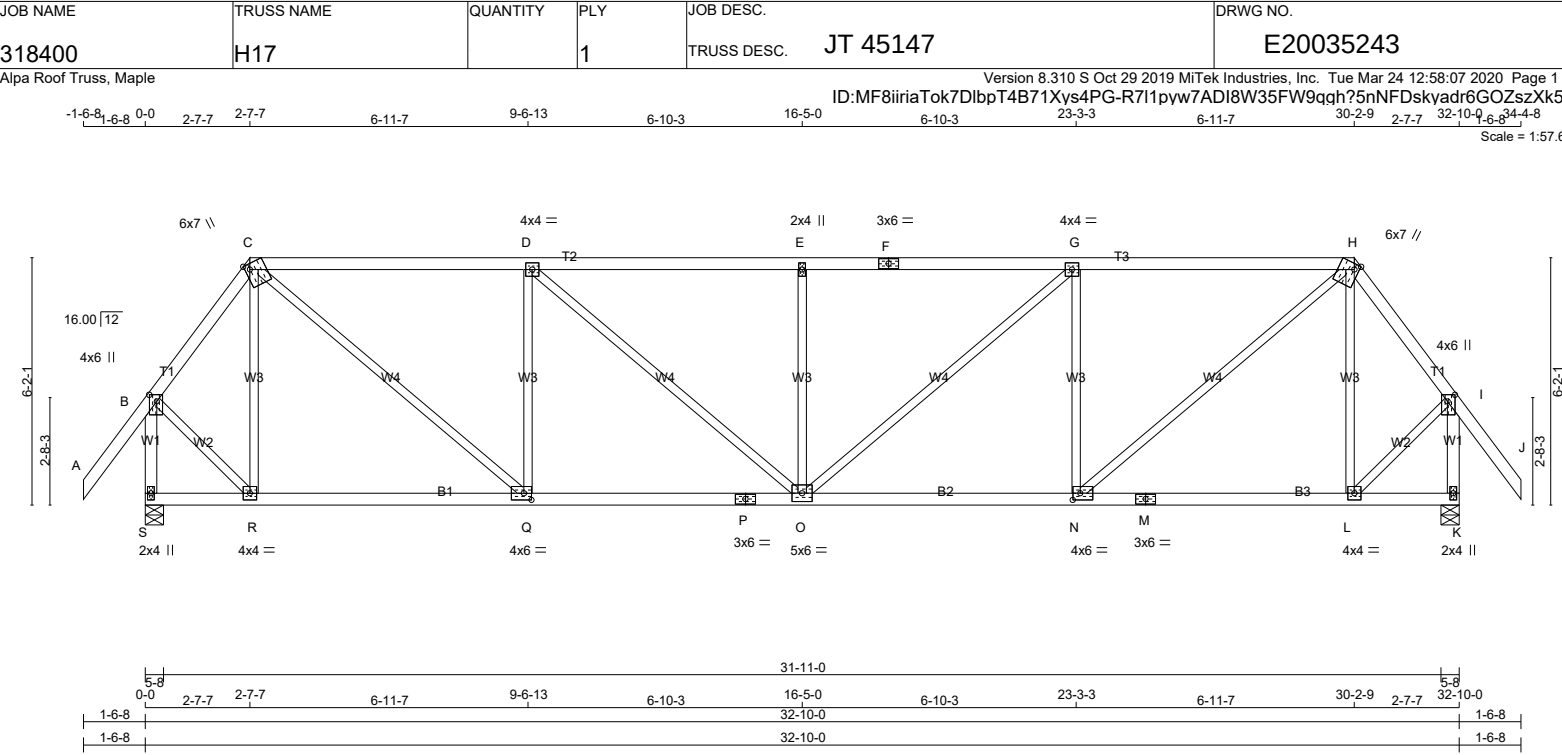
LUMBER				DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER				DESIGN CRITERIA			
N. L. G. A. RULES		CHORDS SIZE		LUMBER		DESCR.		BEARINGS		SPECIFIED LOADS:	
Q - A	2x4	DRY	No.2	SPF	FACTORED	MAXIMUM FACTORED	INPUT	REQRD	TOP CH.	LL = 21.0 PSF	
A - B	2x4	DRY	No.2	SPF	GROSS REACTION	GROSS REACTION	BRG	BRG	DL = 6.0 PSF		
B - C	2x4	DRY	No.2	SPF	JT VERT HORZ	DOWN HORZ UPLIFT	IN-SX	IN-SX	BOT CH.	LL = 0.0 PSF	
C - E	2x4	DRY	No.2	SPF	Q 1347 0	1347 0 0	5-8	2-0	DL = 7.4 PSF		
E - F	2x4	DRY	No.2	SPF	J 1484 0	1484 0 0	5-8	2-3	TOTAL LOAD = 34.4 PSF		
F - G	2x4	DRY	No.2	SPF						SPACING = 24.0 IN./C	
G - I	2x4	DRY	No.2	SPF						LOADING IN ALL FLAT SECTIONS BASED ON A SLOPE OF 2.00/12 MINIMUM	
J - H	2x4	DRY	No.2	SPF						THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBCC 2015	
Q - N	2x4	DRY	No.2	SPF						THIS DESIGN COMPLIES WITH: - PART 9 OF BCBC 2018 , ABC 2019 - PART 9 OF OBC 2012 (2019 AMENDMENT) - CSA 086-14 - TPIC 2014	
N - J	2x4	DRY	No.2	SPF						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	
ALL WEBS 2x3 DRY No.2 EXCEPT								ALLOWABLE DEFL.(LL)= L/360 (0.93") CALCULATED VERT. DEFL.(LL)= L/ 999 (0.05") ALLOWABLE DEFL.(TL)= L/360 (0.93") CALCULATED VERT. DEFL.(TL)= L/ 999 (0.14")			
C - N 2x4 DRY No.2								CSI: TC=0.63/1.00 (C-D:1) , BC=0.28/1.00 (O-P:1) , WB=0.37/1.00 (A-P:1) , SSI=0.25/1.00 (C-D:1)			
N - E 2x4 DRY No.2								DOL LUMBER=1.00 NAIL=1.00 LS BEND=1.10 COMP=1.10 SHEAR=1.10 TENS= 1.10			
DRY: SEASONED LUMBER.								COMPANION LIVE LOAD FACTOR = 1.00			
								TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT .			
								NAIL VALUES PLATE GRIP(DRY) SHEAR SECTION (PSI) (PLI) (PLI) MAX MIN MAX MIN MAX MIN MT20 650 371 1747 788 1987 1873			
								PLATE PLACEMENT TOL. = 0.250 inches			
								PLATE ROTATION TOL. = 5.0 Deg.			
								JSI GRIP= 0.88 (L) (INPUT = 0.90) JSI METAL= 0.33 (B) (INPUT = 1.00)			

PLATES (table is in inches)			
JT	TYPE	PLATES	W LEN Y X
A	TMVW-t	MT20	4.0 6.0 1.50 3.00
B	TTWW+m	MT20	4.0 6.0 2.50 2.00
C, E, G			
C	TTWW+m	MT20	6.0 7.0 Edge 1.50
D	TMW+w	MT20	2.0 4.0
F	TTWW+m	MT20	4.0 6.0 2.25 2.00
H	TMVW+p	MT20	4.0 6.0 2.00 2.00
J	BMV1+p	MT20	2.0 4.0
K, M, O			
K	BMWW-t	MT20	4.0 4.0
L	BMWW-t	MT20	4.0 4.0 1.50 1.75
N	BSWWW-I	MT20	5.0 8.0 3.00 4.00
P	BMWW-t	MT20	4.0 6.0 1.50 3.00
Q	BMV1+p	MT20	2.0 4.0
Edge - INDICATES REFERENCE CORNER OF PLATE TOUCHES EDGE OF CHORD.			

LATERAL BRACE(S) SHOWN SHALL BE 2X4 SPF#2

Scale = 1:57.7

CHORDS					WEBS				
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX CSI (LC)	MAX. UNBRAC	MEMB.	MAX. FACTORED FORCE (LBS)	MAX CSI (LC)		
FR-TO		FROM TO		LENGTH	FR-TO				
Q-A	-1314 / 0	0.0	0.0	0.58 (1)	7.05	0 / 1552	0.35 (1)		
A-B	-1039 / 0	-78.0	-78.0	0.28 (1)	5.79	P-B	-1077 / 0		
B-C	-1307 / 0	-78.0	-78.0	0.29 (1)	5.35	B-O	-419 / 0		
C-D	-948 / 0	-78.0	-78.0	0.43 (1)	5.75	O-C	0 / 419		
D-E	-948 / 0	-78.0	-78.0	0.43 (1)	5.75	C-N	0 / 335		
E-F	-1297 / 0	-78.0	-78.0	0.19 (1)	5.47	N-D	-518 / 0		
F-G	-952 / 0	-78.0	-78.0	0.09 (1)	6.25	N-E	0 / 348		
G-H	-941 / 0	-78.0	-78.0	0.10 (1)	6.25	M-E	0 / 428		
H-I	0 / 52	-78.0	-78.0	0.15 (1)	10.00	M-F	-372 / 0		
J-H	-1467 / 0	0.0	0.0	0.21 (1)	6.76	L-F	-947 / 0		
						L-G	0 / 1041		
Q-P	0 / 0	-18.5	-18.5	0.07 (4)	10.00	K-G	-402 / 0		
P-O	0 / 1063	-18.5	-18.5	0.23 (1)	10.00	K-H	0 / 738		
O-N	0 / 789	-18.5	-18.5	0.19 (1)	10.00				
N-M	0 / 782	-18.5	-18.5	0.19 (4)	10.00				
M-L	0 / 969	-18.5	-18.5	0.22 (1)	10.00				
L-K	0 / 552	-18.5	-18.5	0.13 (1)	10.00				
K-J	0 / 0	-18.5	-18.5	0.04 (4)	10.00				



LUMBER

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

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMVW+p	MT20	4.0	6.0	2.00	2.25
C	TTWW+m	MT20	6.0	7.0	Edge	1.50
D	TMWW-t	MT20	4.0	4.0		
E	TMW+w	MT20	2.0	4.0		
F	TS-t	MT20	3.0	6.0		
G	TMWW-t	MT20	4.0	4.0		
H	TTWW+m	MT20	6.0	7.0	Edge	1.50
I	TMVW+p	MT20	4.0	6.0	2.00	2.25
K	BMV1+p	MT20	2.0	4.0		
L	BMWW-t	MT20	4.0	4.0		
M	BS-t	MT20	3.0	6.0		
N	BMWW-t	MT20	4.0	6.0	2.00	2.25
O	BMWWW-t	MT20	5.0	6.0		
P	BS-t	MT20	3.0	6.0		
Q	BMWW-t	MT20	4.0	6.0	2.00	2.25
R	BMWW-t	MT20	4.0	4.0		
S	BMV1+p	MT20	2.0	4.0		

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

LATERAL BRACE(S) SHOWN SHALL BE 2X4 SPF#2



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

BEARINGS

JT	FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	REQRD BRG
S	1713 0	1713 0	5-8	2-9
K	1713 0	1713 0	5-8	2-9

UNFACTORED REACTIONS

JT	1ST LCASE COMBINED	MAX /MIN. COMPONENT REACTIONS	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
S	1219	759 / 0	0 / 0	0 / 0	0 / 0	0 / 0	460 / 0	0 / 0
K	1219	759 / 0	0 / 0	0 / 0	0 / 0	0 / 0	460 / 0	0 / 0

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.70 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. UNBRACED LENGTH	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. UNBRACED LENGTH	
FR-TO		FROM TO		FR-TO			
A-B	0 / 52	-78.0 -78.0	0.15 (1)	10.00	R-C	-457 / 0	0.28 (1)
B-C	-1134 / 0	-78.0 -78.0	0.11 (1)	5.85	C-Q	0 / 1615	0.36 (1)
C-D	-1903 / 0	-78.0 -78.0	0.73 (1)	4.03	Q-D	-910 / 0	0.55 (1)
D-E	-2262 / 0	-78.0 -78.0	0.79 (1)	3.70	D-O	0 / 473	0.11 (1)
E-F	-2262 / 0	-78.0 -78.0	0.79 (1)	3.70	O-E	-492 / 0	0.30 (1)
F-G	-2262 / 0	-78.0 -78.0	0.79 (1)	3.70	O-G	0 / 473	0.11 (1)
G-H	-1903 / 0	-78.0 -78.0	0.73 (1)	4.03	N-G	-910 / 0	0.55 (1)
H-I	-1134 / 0	-78.0 -78.0	0.11 (1)	5.85	N-H	0 / 1615	0.36 (1)
I-J	0 / 52	-78.0 -78.0	0.15 (1)	10.00	L-H	-457 / 0	0.28 (1)
S-B	-1710 / 0	0.0 0.0	0.25 (1)	6.36	B-R	0 / 881	0.20 (1)
K-I	-1710 / 0	0.0 0.0	0.25 (1)	6.36	L-I	0 / 881	0.20 (1)
S-R	0 / 0	-18.5 -18.5	0.13 (4)	10.00			
R-Q	0 / 666	-18.5 -18.5	0.24 (4)	10.00			
Q-P	0 / 1903	-18.5 -18.5	0.40 (1)	10.00			
P-O	0 / 1903	-18.5 -18.5	0.40 (1)	10.00			
O-N	0 / 1903	-18.5 -18.5	0.40 (1)	10.00			
N-M	0 / 666	-18.5 -18.5	0.24 (4)	10.00			
M-L	0 / 666	-18.5 -18.5	0.24 (4)	10.00			
L-K	0 / 0	-18.5 -18.5	0.13 (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

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

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

THIS DESIGN COMPLIES WITH:

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

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

ALLOWABLE DEFL.(LL)= L/360 (1.09")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.11")
ALLOWABLE DEFL.(TL)= L/360 (1.09")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.22")

CSI: TC=0.79/1.00 (E-G:1), BC=0.40/1.00 (O-Q:1), WB=0.55/1.00 (D-Q:1), SSI=0.26/1.00 (G-H:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

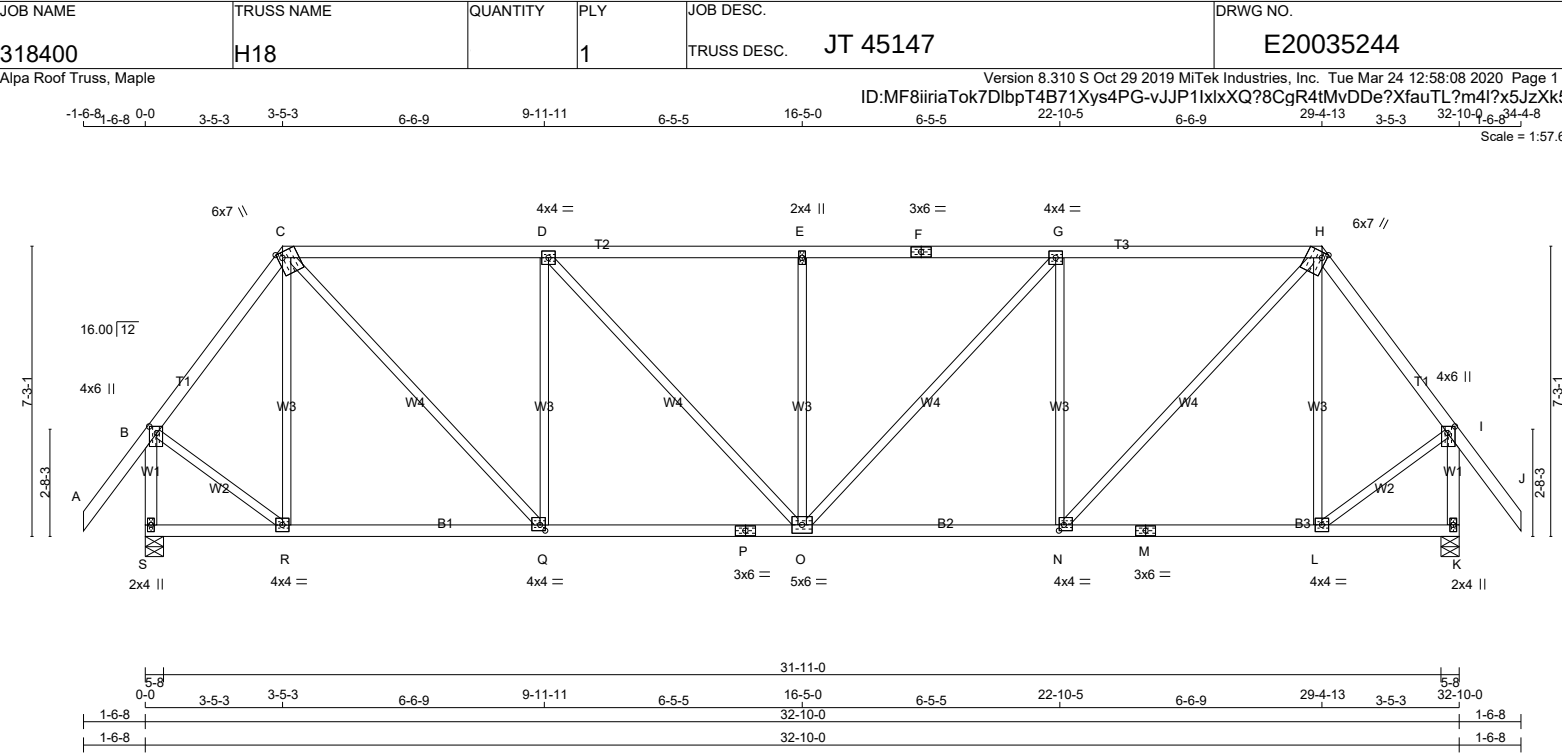
NAIL VALUES

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.89 (B) (INPUT = 0.90)
JSI METAL= 0.56 (P) (INPUT = 1.00)



LUMBER

N. L. G. A. RULES

CHORDS	SIZE	LUMBER	DESCR.
A - C	2x4	DRY No.2	SPF
C - F	2x4	DRY No.2	SPF
F - H	2x4	DRY No.2	SPF
H - J	2x4	DRY No.2	SPF
S - B	2x4	DRY No.2	SPF
K - I	2x4	DRY No.2	SPF
S - P	2x4	DRY No.2	SPF
P - M	2x4	DRY No.2	SPF
M - K	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+p	MT20	4.0	6.0	2.00	2.25
C	TTWW+m	MT20	6.0	7.0	Edge	1.50
D	TMWW-t	MT20	4.0	4.0		
E	TMW+w	MT20	2.0	4.0		
F	TS-t	MT20	3.0	6.0		
G	TMWW-t	MT20	4.0	4.0		
H	TTWW+m	MT20	6.0	7.0	Edge	1.50
I	TMVW+p	MT20	4.0	6.0	2.00	2.25
K	BMV1+p	MT20	2.0	4.0		
L	BMWW-t	MT20	4.0	4.0		
M	BS-t	MT20	3.0	6.0		
N	BMWW-t	MT20	4.0	4.0	1.75	1.50
O	BMWWW-t	MT20	5.0	6.0		
P	BS-t	MT20	3.0	6.0		
Q	BMWW-t	MT20	4.0	4.0	1.75	1.50
R	BMWW-t	MT20	4.0	4.0		
S	BMV1+p	MT20	2.0	4.0		

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

LATERAL BRACE(S) SHOWN SHALL BE 2X4 SPF#2



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

BEARINGS

	FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	REQRD BRG
JT	VERT	HORZ	DOWN	UPLIFT
S	1713	0	1713	0
K	1713	0	1713	0

UNFACTORED REACTIONS

1ST LCASE	MAX./MIN. COMPONENT REACTIONS
JT	COMBINED
S	1219 759 / 0
K	1219 759 / 0

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.16 FT.

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

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. UNBRACED LENGTH	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. UNBRACED LENGTH	
FR-TO				FR-TO			
A-B	0 / 52	-78.0 -78.0 0.15 (1)	10.00	R-C	-359 / 0	0.33 (1)	
B-C	-1204 / 0	-78.0 -78.0 0.19 (1)	5.62	C-Q	0 / 1346	0.30 (1)	
C-D	-1637 / 0	-78.0 -78.0 0.60 (1)	4.46	Q-D	-856 / 0	0.79 (1)	
D-E	-1905 / 0	-78.0 -78.0 0.63 (1)	4.16	D-O	0 / 394	0.09 (1)	
E-F	-1905 / 0	-78.0 -78.0 0.63 (1)	4.16	O-E	-463 / 0	0.43 (1)	
F-G	-1905 / 0	-78.0 -78.0 0.63 (1)	4.16	O-G	0 / 394	0.09 (1)	
G-H	-1637 / 0	-78.0 -78.0 0.60 (1)	4.46	N-G	-856 / 0	0.79 (1)	
H-I	-1204 / 0	-78.0 -78.0 0.19 (1)	5.62	N-H	0 / 1346	0.30 (1)	
I-J	0 / 52	-78.0 -78.0 0.15 (1)	10.00	L-H	-359 / 0	0.33 (1)	
S-B	-1696 / 0	0.0 0.0 0.24 (1)	6.38	B-R	0 / 855	0.19 (1)	
K-I	-1696 / 0	0.0 0.0 0.24 (1)	6.38	L-I	0 / 855	0.19 (1)	
S-R	0 / 0	-18.5 -18.5 0.12 (4)	10.00				
R-Q	0 / 712	-18.5 -18.5 0.22 (4)	10.00				
Q-P	0 / 1637	-18.5 -18.5 0.35 (1)	10.00				
P-O	0 / 1637	-18.5 -18.5 0.35 (1)	10.00				
O-N	0 / 1637	-18.5 -18.5 0.35 (1)	10.00				
N-M	0 / 712	-18.5 -18.5 0.22 (4)	10.00				
M-L	0 / 712	-18.5 -18.5 0.22 (4)	10.00				
L-K	0 / 0	-18.5 -18.5 0.12 (4)	10.00				

S-R	0 / 0	-18.5 -18.5 0.12 (4)	10.00
R-Q	0 / 712	-18.5 -18.5 0.22 (4)	10.00
Q-P	0 / 1637	-18.5 -18.5 0.35 (1)	10.00
P-O	0 / 1637	-18.5 -18.5 0.35 (1)	10.00
O-N	0 / 1637	-18.5 -18.5 0.35 (1)	10.00
N-M	0 / 712	-18.5 -18.5 0.22 (4)	10.00
M-L	0 / 712	-18.5 -18.5 0.22 (4)	10.00
L-K	0 / 0	-18.5 -18.5 0.12 (4)	10.00

DESIGN CRITERIA

SPECIFIED LOADS:

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

SPACING = 24.0 IN. C/C

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

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

THIS DESIGN COMPLIES WITH:

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

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

ALLOWABLE DEFL.(LL)= L/360 (1.09")

CALCULATED VERT. DEFL.(LL) = L/999 (0.08")

ALLOWABLE DEFL.(TL)= L/360 (1.09")

CALCULATED VERT. DEFL.(TL) = L/999 (0.17")

CSI: TC=0.63/1.00 (D-E:1), BC=0.35/1.00 (O-Q:1), WB=0.79/1.00 (D-Q:1), SSI=0.24/1.00 (C-D:1)

DOL LUMBER=1.00 NAIL=1.00 LS BEND=1.10

COMP=1.10 SHEAR=1.10 TENS=1.10

COMPANION LIVE LOAD FACTOR = 1.00

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

NAIL VALUES

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.88 (B) (INPUT = 0.90)

JSI METAL= 0.49 (P) (INPUT = 1.00)

Alpa Roof Truss, Maple

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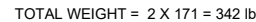
Scale = 1:57.1

Structural drawing of the Alpa Roof Truss, Maple. The drawing shows a side elevation of a roof truss system with various members labeled (T1, T2, T3, W1, W2, W3, W4, B1, B2, B3, C, D, E, F, G, H, A, J, K, L, M, N, O, P, Q). Dimensions are provided for all members and overall truss height. The total weight is 164 lb.

TOTAL WEIGHT = 164 lb

[illegible]

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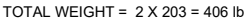
DRY: SEASONED LUMBER.

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

Q- P	0 / 0	-18.5	-18.5	0.18 (4)	10.00
P- O	0 / 755	-18.5	-18.5	0.28 (4)	10.00
O- N	0 / 755	-18.5	-18.5	0.28 (4)	10.00
N- M	0 / 1407	-18.5	-18.5	0.34 (1)	10.00
M- L	0 / 755	-18.5	-18.5	0.28 (4)	10.00
L- K	0 / 755	-18.5	-18.5	0.28 (4)	10.00
K- J	0 / 0	-18.5	-18.5	0.18 (4)	10.00

JSI GRIP= 0.88 (N) (INPUT = 0.90)
JSI METAL= 0.46 (B) (INPUT = 1.00)

Scale = 1:57.4



S-R	0 / 0	-583.4	-583.4	0.40 (1)	10.00
R-Q	0 / 5295	-583.4	-583.4	0.67 (1)	10.00
Q-P	0 / 10306	-583.4	-583.4	0.88 (1)	10.00
P-O	0 / 10306	-583.4	-583.4	0.88 (1)	10.00
O-N	0 / 10306	-583.4	-583.4	0.88 (1)	10.00
N-M	0 / 5295	-583.4	-583.4	0.67 (1)	10.00
M-L	0 / 5295	-583.4	-583.4	0.67 (1)	10.00
L-K	0 / 0	-583.4	-583.4	0.40 (1)	10.00

JSI GRIP= 0.90 (I) (INPUT = 0.90)
JSI METAL= 0.95 (R) (INPUT = 1.00)

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
318400	H21		2	TRUSS DESC. JT 45147	E20035247(2)

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMVW-t	MT20	6.0	9.0	2.00	3.00
C	TTWW-h	MT18HS	10.0	12.0	2.50	7.00
D	TMWW+t	MT20	4.0	6.0		
E	TMW+w	MT20	2.0	4.0		
F	TS-t	MT20	4.0	6.0		
G	TMWW+t	MT20	4.0	6.0		
H	TTWW-h	MT18HS	10.0	12.0	2.50	7.00
I	TMVW-t	MT20	6.0	9.0	2.00	3.00
K	BMV1+t	MT20	6.0	9.0	Edge	0.50
L	BMWW+t	MT20	5.0	8.0	4.25	1.75
M	BS-t	MT20	5.0	8.0		
N	BMWW+t	MT20	6.0	9.0	4.50	2.00
O	BMWWW+t	MT20	6.0	9.0		
P	BS-t	MT20	6.0	7.0		
Q	BMWW+t	MT20	6.0	9.0	4.50	2.00
R	BMWW+t	MT20	5.0	8.0	4.25	1.75
S	BMV1+t	MT20	6.0	9.0	5.50	

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

LATERAL BRACE(S) SHOWN SHALL BE
2X4 SPF#2



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TOTAL WEIGHT = 59 lb

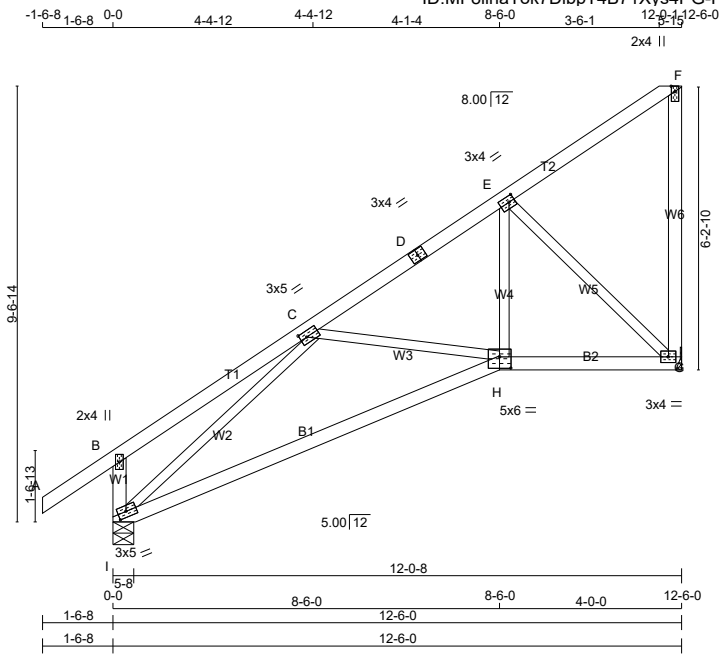
PLATE ROTATION TOL. = 5.0 Deg.
JSI GRIP= 0.85 (D) (INPUT = 0.90)
JSI METAL= 0.52 (B) (INPUT = 1.00)

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
318400	H23T		1	TRUSS DESC. JT 45147	E20035249

Alpa Roof Truss, Maple

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Scale = 1:50.6

TOTAL WEIGHT = 57 lb

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

ALL WEBS	2x3	DRY	No.2	SPF
EXCEPT				

DRY: SEASONED LUMBER.

PLATES (table is in inches)					
JT	TYPE	PLATES	W	LEN	Y X
B	TMV+p	MT20	2.0	4.0	
C	TMWW-t	MT20	3.0	5.0	1.50 1.75
D	TS-t	MT20	3.0	4.0	
E	TMWW-t	MT20	3.0	4.0	1.50 1.50
F	TMV+p	MT20	2.0	4.0	Edge
G	BMVW1-t	MT20	3.0	4.0	
H	BBWW-I	MT20	5.0	6.0	3.00 3.00
I	BMVW1-t	MT20	3.0	5.0	1.50 2.25

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

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

BEARINGS		FACTORED	MAXIMUM	FACTORED	INPUT	REQRD
		GROSS REACTION	GROSS REACTION	DOWN	BRG	BRG
JT	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX
G	603	0	603	0	0	MECHANICAL
I	729	0	729	0	0	1-8

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

UNFACTORED REACTIONS

	1ST LCASE	MAX./MIN. COMPONENT REACTIONS					
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
G	430	262 / 0	0 / 0	0 / 0	0 / 0	168 / 0	0 / 0
I	517	330 / 0	0 / 0	0 / 0	0 / 0	187 / 0	0 / 0

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

BRACING

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

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX LC1 MAX CSI (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX UNBRAC LENGTH	MAX FACTORED CSI (LC)
FR-TO		FROM TO		FR-TO			
A-B	0 / 35	-78.0	-78.0 0.15 (1)	10.00	H-E	0 / 423	0.10 (1)
B-C	0 / 17	-78.0	-78.0 0.18 (1)	10.00	E-G	-654 / 0	0.29 (1)
C-D	-589 / 0	-78.0	-78.0 0.14 (1)	6.25	I-C	-935 / 0	0.59 (1)
D-E	-589 / 0	-78.0	-78.0 0.14 (1)	6.25	C-H	-174 / 0	0.06 (1)
E-F	-18 / 0	-78.0	-78.0 0.13 (1)	6.25			
G-F	-120 / 0	0.0	0.0 0.10 (1)	7.81			
I-B	-264 / 0	0.0	0.0 0.03 (1)	7.81			
I-H	0 / 716	-18.5	-18.5 0.44 (4)	10.00			
H-G	0 / 477	-18.5	-18.5 0.13 (4)	10.00			

DESIGN CRITERIA

SPECIFIED LOADS:

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

SPACING = 24.0 IN./C

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

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

(55 % OF 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 (0.42")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.02")
ALLOWABLE DEFL.(TL)= L/360 (0.42")
CALCULATED VERT. DEFL.(TL) = L/ 555 (0.27")

CSI: TC=0.18/1.00 (B-C:1) , BC=0.44/1.00 (H-I:4) ,
WB=0.59/1.00 (C-I:1) , SSI=0.13/1.00 (B-C:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE RIGHT HEEL ONLY

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

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.89 (I) (INPUT = 0.90)
JSI METAL= 0.28 (I) (INPUT = 1.00)

LATERAL BRACE(S) SHOWN SHALL BE 2X4 SPF#2



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TOTAL WEIGHT = 5 X 54 = 272 lb

PLATES (table is in inches)						
JT	TYPE	PLATES	W	LEN	Y	X
A	TMV+p	MT20	2.0	4.0		
B	TMWW-t	MT20	3.0	5.0	1.50	2.00
C	TMWW-t	MT20	3.0	4.0	1.50	1.50
D	TMV+p	MT20	2.0	4.0		
E	BMVW1-t	MT20	3.0	4.0		
F	BBWW-I	MT20	5.0	6.0	3.00	3.00
G	BMVW1-t	MT20	3.0	5.0	1.50	2.25

	FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION			INPUT BRG	REQD BRG
JT	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX
G	585	0	585	0	0	MECHANICAL	
E	585	0	585	0	0	MECHANICAL	

UNFACTORED REACTIONS

1ST LCASE		MAX./MIN. COMPONENT REACTIONS					
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
G	417	255 / 0	0 / 0	0 / 0	0 / 0	162 / 0	0 / 0
E	417	255 / 0	0 / 0	0 / 0	0 / 0	162 / 0	0 / 0

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.

TOTAL LOAD CASES: (4)

CHORDS					WEB S			
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			
G- A	-132 / 0	0.0	0.0	0.01 (1)	7.81	F- C	0 / 396	0.09 (1)
A- B	0 / 16	-78.0	-78.0	0.16 (1)	10.00	C- E	-626 / 0	0.28 (1)
B- C	-562 / 0	-78.0	-78.0	0.13 (1)	6.25	G- B	-874 / 0	0.51 (1)
C- D	-17 / 0	-78.0	-78.0	0.13 (1)	6.25	B- F	-141 / 0	0.05 (1)
E- D	-121 / 0	0.0	0.0	0.10 (1)	7.81			
G- F	0 / 656	-18.5	-18.5	0.41 (4)	10.00			
F- E	0 / 457	-18.5	-18.5	0.13 (4)	10.00			

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

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

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

(55 % OF 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 (0.40")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.01")
ALLOWABLE DEFL.(TL)= L/360 (0.40")
CALCULATED VERT. DEFL.(TL) = L/ 641 (0.23")

CSI: TC=0.16/1.00 (A-B:1), BC=0.41/1.00 (F-G:4),
WB=0.51/1.00 (B-G:1), SSI=0.12/1.00 (A-B:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

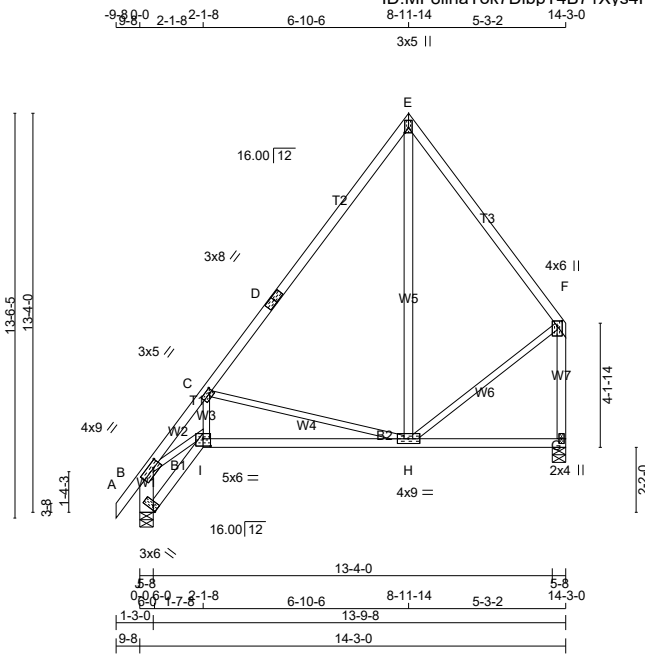
JSI GRIP= 0.83 (G) (INPUT = 0.90)
JSI METAL= 0.24 (G) (INPUT = 1.00)

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
318400	H25T		1	TRUSS DESC. JT 45147	E20035251

Alpa Roof Truss, Maple

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ID:MF8iiriaTok7DlbpT4B71Xys4PG-CfE2Vh08HhI?UHin r Y0hRERU SbXKohLCprPzXk5M



Scale = 1:77.0

TOTAL WEIGHT = 7 X 79 = 554 lb

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

DRY: SEASONED LUMBER.

PLATES (table is in inches)				
JT	TYPE	PLATES	W	LEN Y X
B	TMVW-t	MT20	4.0	9.0 2.00 3.00
C	TMWW-t	MT20	3.0	5.0 1.50 1.50
D	TS-t	MT20	3.0	8.0
E	TTW+p	MT20	3.0	5.0 2.00 Edge
F	TMVW+p	MT20	4.0	6.0 2.00 2.00
G	BMV1+p	MT20	2.0	4.0
H	BMWWW-t	MT20	4.0	9.0
I	BBWW-l	MT20	5.0	6.0 3.00 3.00
J	BVM1+l	MT20	3.0	6.0 Edge

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

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

FACTORED		MAXIMUM FACTORED		INPUT	
GROSS REACTION		GROSS REACTION		BRG	
JT	VERT	HORZ	DOWN	HORZ	UPLIFT
J	758	0	758	0	0
G	687	0	687	0	0

UNFACTORED REACTIONS

1ST LCASE		MAX./MIN. COMPONENT REACTIONS					
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
J	539	337 / 0	0 / 0	0 / 0	0 / 0	202 / 0	0 / 0
G	490	299 / 0	0 / 0	0 / 0	0 / 0	191 / 0	0 / 0

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

BRACING

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

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. FACTORED VERT. LOAD (LC1)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. FACTORED VERT. LOAD (LC1)	MAX. FACTORED VERT. LOAD (LC1)
FR-TO		FROM	TO	FR-TO		FROM	TO
A-B	0 / 28	-78.0	-78.0 0.05 (1)	I-C	0 / 656	0.15 (1)	
B-C	-1514 / 0	-78.0	-78.0 0.37 (1)	C-H	-743 / 0	0.69 (1)	
C-D	-404 / 0	-78.0	-78.0 0.46 (1)	H-E	0 / 165	0.04 (4)	
D-E	-404 / 0	-78.0	-78.0 0.46 (1)	H-F	0 / 270	0.06 (1)	
E-F	-366 / 0	-78.0	-78.0 0.28 (1)	B-I	0 / 1136	0.26 (1)	
J-B	-739 / 0	0.0	0.0 0.05 (1)				
G-F	-655 / 0	0.0	0.0 0.19 (1)				
J-I	0 / 0	-18.5	-18.5 0.02 (4)				
I-H	0 / 938	-18.5	-18.5 0.29 (4)				
H-G	0 / 0	-18.5	-18.5 0.21 (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

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

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

(55 % OF 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 (0.48")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.03")
ALLOWABLE DEFL.(TL)= L/360 (0.48")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.09")

CSI: TC=0.46/1.00 (C-E:1) , BC=0.29/1.00 (H-I:4) , WB=0.69/1.00 (C-H:1) , SSI=0.15/1.00 (C-E:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE RIGHT HEEL ONLY

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

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.79 (I) (INPUT = 0.90)
JSI METAL= 0.47 (I) (INPUT = 1.00)

LATERAL BRACE(S) SHOWN SHALL BE 2X4 SPF#2



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TOTAL WEIGHT = 84 lb

PLATES (table is in inches)					
PL	TYPE	PLATES	W	LEN	Y X
A	TBMW+m	MT20	4.0	6.0	Edge
B	TBMWW+t	MT20	3.0	4.0	1.50 1.00
C	TTW+p	MT20	3.0	5.0	2.00 Edge
D	TMWV+p	MT20	4.0	6.0	2.00 2.00
E	BMV1+p	MT20	2.0	4.0	
F	BMVWW-t	MT20	4.0	9.0	

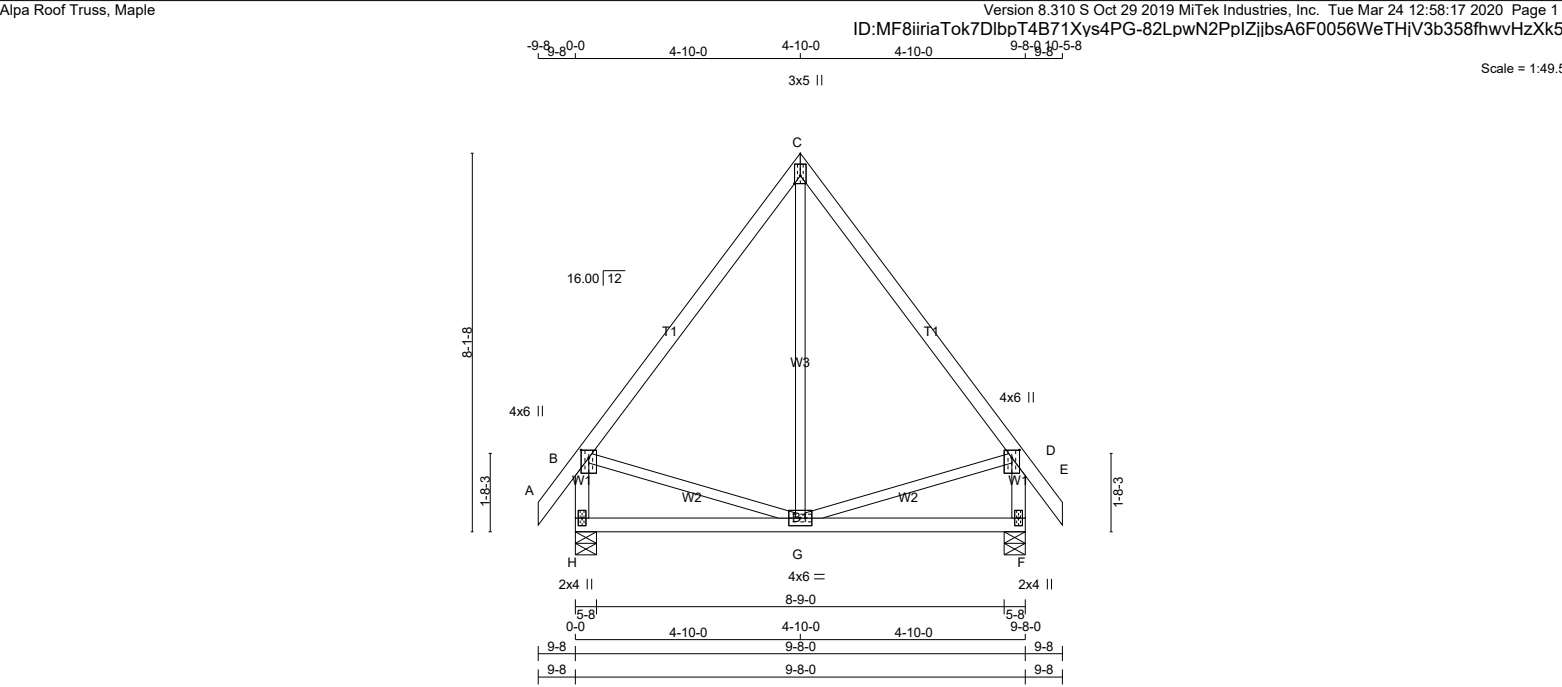
Edge - INDICATES REFERENCE CORNER OF PLATE
TOUCHES EDGE OF CHORD.

TOTAL LOAD CASES: (4)

CHORDS				WEBBS			
MAX. FACTORED		FACTORED		MAX. FACTORED			
MEMB.	FORCE (LBS)	VERT. LOAD (PLF)	LC1 MAX CSI (LC)	MAX. UNBRAC	MEMB.	FORCE (LBS)	MAX. CSI (LC)
FR-TO		FROM	TO	LENGTH	FR-TO		
A-I	-1427 / 0	-78.0	-78.0 0.11 (1)	5.35	F-C	0 / 292	0.05 (1)
I-B	-1298 / 0	-78.0	-78.0 0.26 (1)	5.38	F-D	0 / 280	0.06 (1)
B-C	-414 / 0	-78.0	-78.0 0.22 (1)	6.25	B-F	-298 / 0	0.24 (1)
C-D	-382 / 0	-78.0	-78.0 0.39 (1)	6.25	H-I	0 / 56	0.00 (1)
E-D	-672 / 0	0.0	0.0 0.18 (1)	7.81	H-B	0 / 741	0.12 (1)
G-A	0 / 0	-96.5	-96.5 0.41 (1)	10.00			
A-H	0 / 809	-18.5	-18.5 0.51 (1)	10.00			
H-F	0 / 405	-18.5	-18.5 0.24 (1)	10.00			
F-E	0 / 0	-18.5	-18.5 0.13 (4)	10.00			

JSI GRIP= 0.87 (B) (INPUT = 0.90)
JSI METAL= 0.39 (A) (INPUT = 1.00)

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
318400	H27		1	TRUSS DESC. JT 45147	E20035253



TOTAL WEIGHT = 3 X 50 = 149 lb

[M][F]

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

PLATES (table is in inches)						
JT	TYPE	PLATES	W	LEN	Y	X
B	TMVW+p	MT20	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		
G	BMWWW-t	MT20	4.0	6.0		
H	BMV1+p	MT20	2.0	4.0		
Edge - INDICATES REFERENCE CORNER OF PLATE TOUCHES EDGE OF CHORD.						

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

BEARINGS		FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	REQRD BRG
JT	VERT	HORZ	DOWN	HORZ	UPLIFT
H	537	0	537	0	0
F	537	0	537	0	0

UNFACTORED REACTIONS		1ST LCASE	MAX./MIN. COMPONENT REACTIONS				
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
H	381	241 / 0	0 / 0	0 / 0	0 / 0	140 / 0	0 / 0
F	381	241 / 0	0 / 0	0 / 0	0 / 0	140 / 0	0 / 0

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

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

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

LOADING
TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	LC1 MAX CSI (LC)	MAX. UNBRAC LENGTH	MEMB.	MAX. FACTORED FORCE (LBS)	MAX CSI (LC)
FR-TO		FROM	TO		FR-TO		
A-B	0 / 28	-78.0	-78.0 0.05 (1)	10.00	G-C	0 / 90	0.03 (4)
B-C	-254 / 0	-78.0	-78.0 0.23 (1)	6.25	B-G	0 / 158	0.04 (1)
C-D	-254 / 0	-78.0	-78.0 0.23 (1)	6.25	G-D	0 / 158	0.04 (1)
D-E	0 / 28	-78.0	-78.0 0.05 (1)	10.00			
H-B	-503 / 0	0.0	0.0 0.05 (1)	7.81			
F-D	-503 / 0	0.0	0.0 0.05 (1)	7.81			
H-G	0 / 0	-18.5	-18.5 0.12 (4)	10.00			
G-F	0 / 0	-18.5	-18.5 0.12 (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 2015

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

(55 % OF 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 (0.32")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.00")
ALLOWABLE DEFL.(TL)= L/360 (0.32")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.01")

CSI: TC=0.23/1.00 (B-C:1) , BC=0.12/1.00 (G-H:4) , WB=0.04/1.00 (D-G:1) , SSI=0.09/1.00 (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 650 371 1747 788 1987 1873

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.28 (B) (INPUT = 0.90)
JSI METAL= 0.14 (D) (INPUT = 1.00)

LATERAL BRACE(S) SHOWN SHALL BE 2X4 SPF#2



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TOTAL WEIGHT = 54 lb

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 2015

THIS DESIGN COMPLIES WITH:

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

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

(55 % OF 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=0.05/1.00 (H-I:1) , BC=0.02/1.00 (J-K:1) ,
WB=0.18/1.00 (E-M:1) , SSI=0.04/1.00 (F-G:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.14 (E) (INPUT = 0.90)
JSI METAL= 0.08 (F) (INPUT = 1.00)

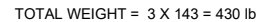
LOADING
TOTAL LOAD CASES: (4)

C H O R D S				W E B S				
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	LC1 MAX CSI (LC)	MAX. UNBRAC	MEMB.	MAX. FACTORED FORCE (LBS)	MAX CSI (LC)	
FR-TO		FROM	TO	LENGTH	FR-TO			
P-B	-136 / 0	0.0	0.0	0.02 (1)	7.81	M-E	-154 / 0	0.18 (1)
A-B	0 / 28	-78.0	-78.0	0.05 (1)	10.00	N-D	-164 / 0	0.07 (1)
B-C	-36 / 0	-78.0	-78.0	0.04 (1)	6.25	O-C	-71 / 0	0.01 (1)
C-D	-6 / 0	-78.0	-78.0	0.04 (1)	10.00	L-F	-164 / 0	0.07 (1)
D-E	-7 / 0	-78.0	-78.0	0.04 (1)	10.00	K-G	-71 / 0	0.01 (1)
E-F	-7 / 0	-78.0	-78.0	0.04 (1)	10.00			
F-G	-6 / 0	-78.0	-78.0	0.04 (1)	10.00			
G-H	-36 / 0	-78.0	-78.0	0.04 (1)	6.25			
H-I	0 / 28	-78.0	-78.0	0.05 (1)	10.00			
J-H	-136 / 0	0.0	0.0	0.02 (1)	7.81			
P-O	0 / 11	-18.5	-18.5	0.02 (1)	10.00			
O-N	0 / 7	-18.5	-18.5	0.02 (4)	10.00			
N-M	0 / 3	-18.5	-18.5	0.02 (4)	10.00			
M-L	0 / 3	-18.5	-18.5	0.02 (4)	10.00			
L-K	0 / 7	-18.5	-18.5	0.02 (4)	10.00			
K-J	0 / 11	-18.5	-18.5	0.02 (1)	10.00			

LATERAL BRACE(S) SHOWN SHALL BE
2X4 SPF#2



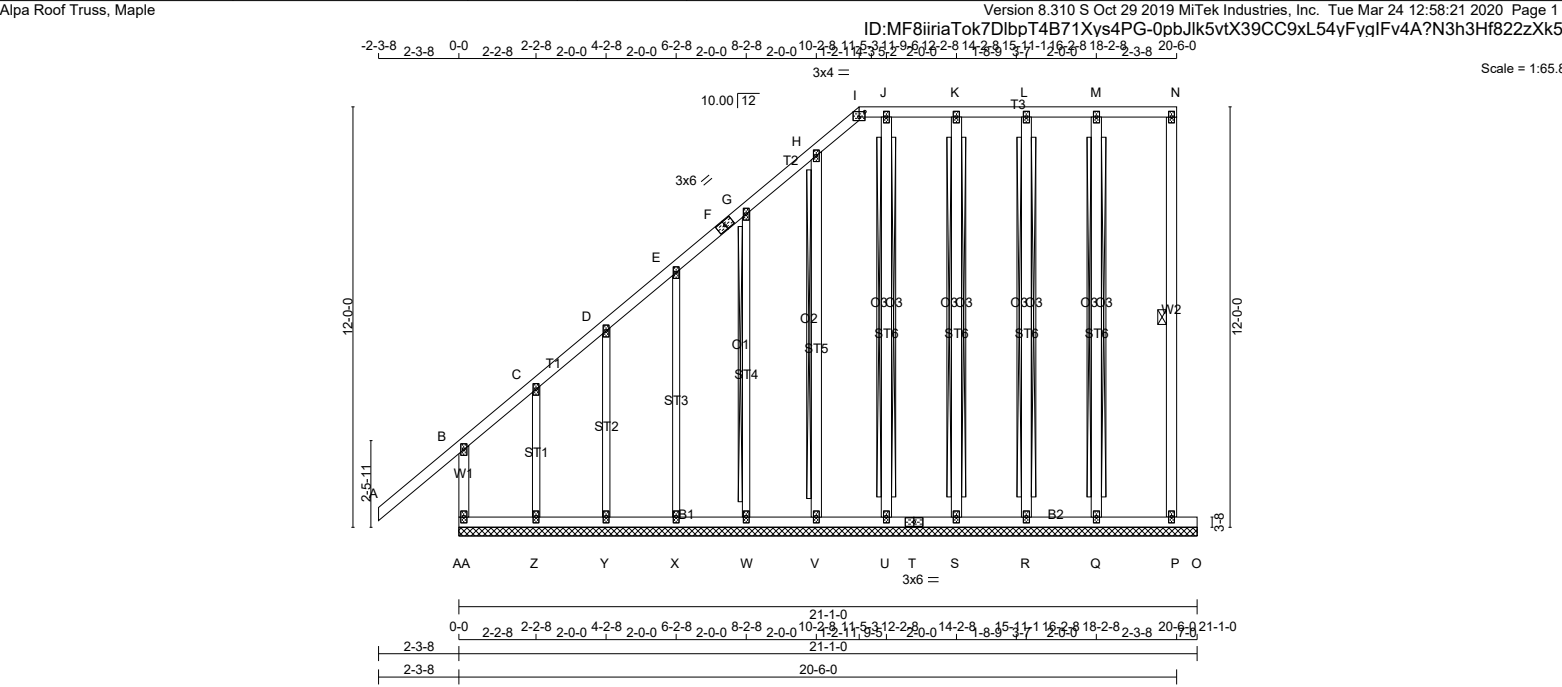
Scale: 3/16"=1'



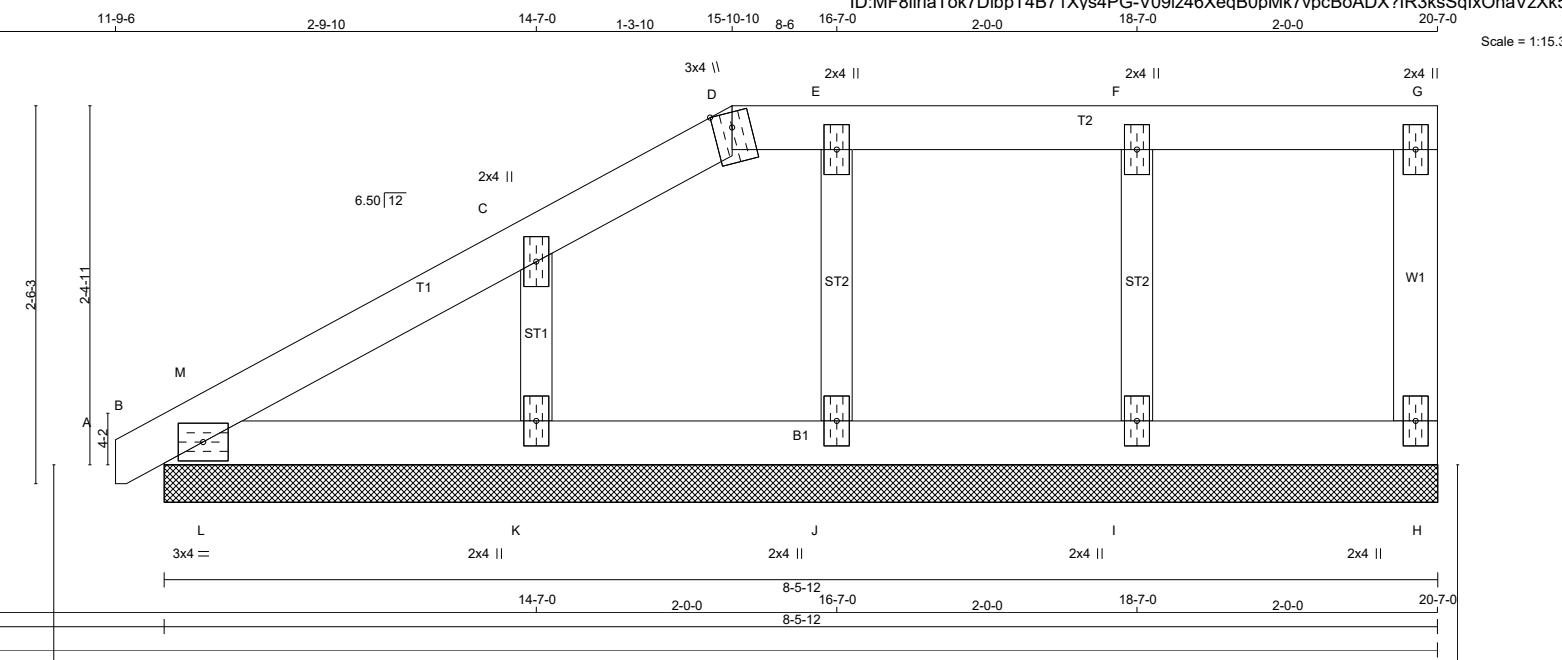
CHORDS				WEBS				
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	FACTORED LOAD CSI (LC)	MAX. UNBRAC MAX (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED MAX CSI (LC)	
FR-TO		FROM TO		LENGTH	FR-TO			
A-B	0 / 60	-78.0	-78.0	0.31 (1)	10.00	L-C	-185 / 0	0.17 (1)
B-C	-844 / 0	-78.0	-78.0	0.50 (1)	5.92	C-J	-287 / 0	0.16 (1)
C-D	-684 / 0	-78.0	-78.0	0.47 (1)	6.25	B-L	0 / 713	0.16 (1)
D-E	-684 / 0	-78.0	-78.0	0.47 (1)	6.25	J-E	0 / 113	0.03 (4)
I-G	-146 / 0	0.0	0.0	0.11 (1)	6.25	J-F	0 / 432	0.07 (1)
M-B	-1160 / 0	0.0	0.0	0.10 (1)	7.81	F-I	-949 / 0	0.86 (1)
E-F	-497 / 0	-85.5	-85.5	0.30 (1)	2.00			
F-G	0 / 0	-85.5	-85.5	0.29 (1)	10.00			
M-L	0 / 0	-18.5	-18.5	0.08 (4)	10.00			
L-K	0 / 674	-18.5	-18.5	0.29 (1)	10.00			
K-J	0 / 674	-18.5	-18.5	0.29 (1)	10.00			
J-I	0 / 345	-18.5	-18.5	0.43 (1)	10.00			
I-H	0 / 0	-18.5	-18.5	0.24 (1)	10.00			

JSI GRIP= 0.82 (I) (INPUT = 0.90)
JSI METAL= 0.35 (I) (INPUT = 1.00)

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
318400	H28G		1	TRUSS DESC. JT 45147	E20035256



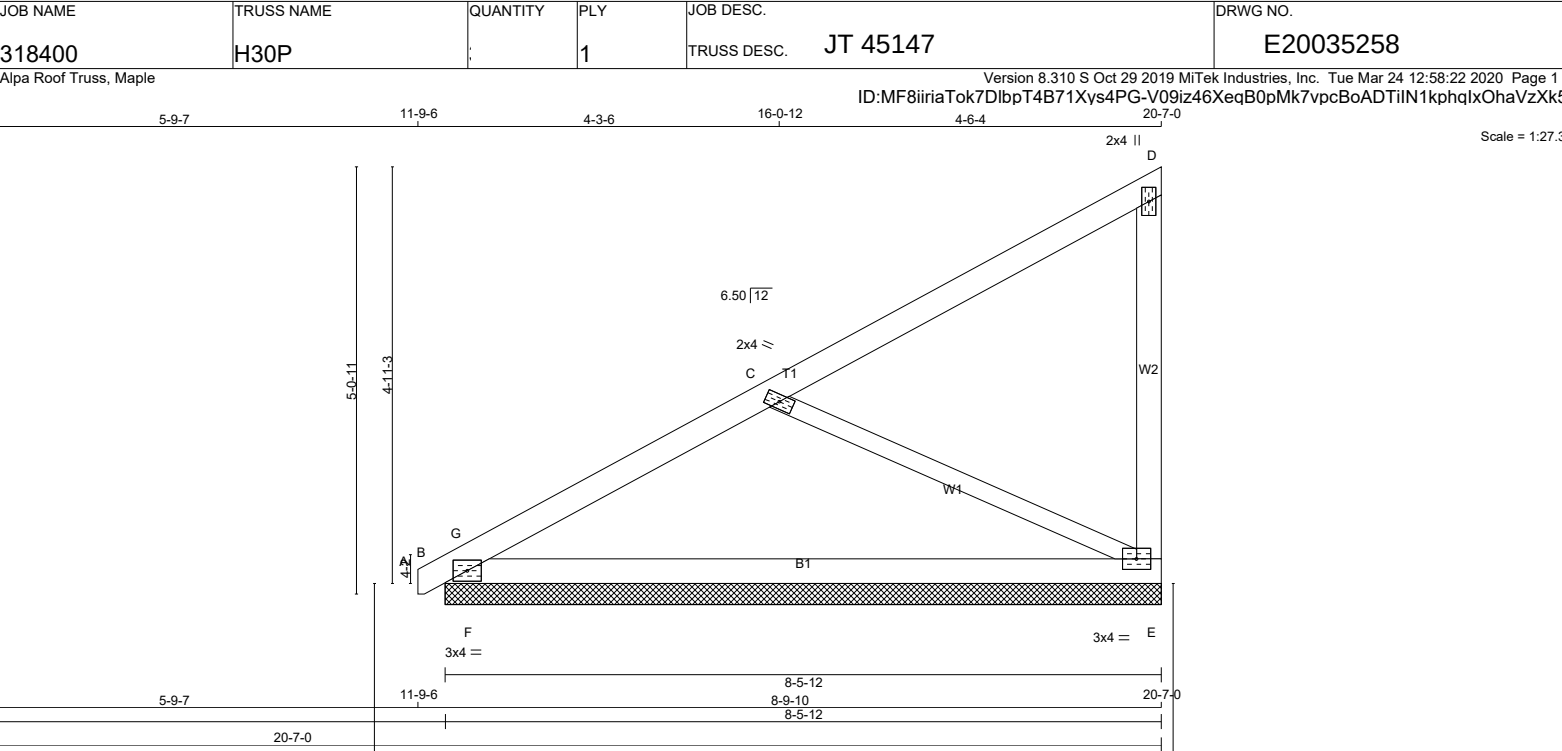
LUMBER N. L. G. A. RULES CHORDS SIZE LUMBER DESCR. A - F 2x4 DRY No.2 SPF F - I 2x4 DRY No.2 SPF P - N 2x4 DRY No.2 SPF AA- B 2x4 DRY No.2 SPF I - N 2x4 DRY No.2 SPF AA- T 2x4 DRY No.2 SPF T - O 2x4 DRY No.2 SPF ALL WEBS 2x4 DRY No.2 SPF EXCEPT W - G 2x3 DRY No.2 SPF X - E 2x3 DRY No.2 SPF Y - D 2x3 DRY No.2 SPF Z - C 2x3 DRY No.2 SPF ALL GABLE WEBS 2x4 DRY No.2 SPF EXCEPT ST7 2x3 DRY No.2 SPF ST8 2x3 DRY No.2 SPF ST9 2x3 DRY No.2 SPF ST10 2x3 DRY No.2 SPF DRY: SEASONED LUMBER. GABLE STUDS SPACED AT 2-0-0 OC.				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. <u>PROVIDE ANCHORAGE AT BEARING JOINT O FOR 150 LBS. FACTORED UPLIFT BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S)</u> BRACING FOR SECTION I-N, MAX. PURLIN SPACING = 2.00 FT. FOR OTHER SECTIONS, 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 N-P. 2x4 DRY SPF No.2 I-BRACE AT M-Q, L-R, K-S, J-U 2x4 DRY SPF No.2 T-BRACE AT H-V, G-W FASTEN T AND I-BRACES TO NARROW EDGE OF WEB WITH ONE ROW PER PLY OF 3" COMMON WIRE NAILS @ 6" O.C. WITH 3" MINIMUM END DISTANCE. BRACE MUST COVER 90% OF WEB LENGTH. 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)				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, NBC 2015 THIS DESIGN COMPLIES WITH: - PART 9 OF CBC 2018, ABC 2019 - PART 9 OF OBC 2012 (2019 AMENDMENT) - CSA 086-14 - TPIC 2014 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=0.31/1.00 (A-B:1) , BC=0.08/1.00 (Z-AA:1) , WB=0.16/1.00 (M-Q:1) , SSI=0.11/1.00 (A-B:1) DOL LUMBER=1.00 NAIL=1.00 LS BEND=1.10 COMP=1.10 SHEAR=1.10 TENS= 1.10 COMPANION LIVE LOAD FACTOR = 1.00 TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT . NAIL VALUES PLATE GRIP(DRY) SHEAR SECTION (PSI) (PLI) (PLI) MAX MIN MAX MIN MAX MIN MT20 650 371 1747 788 1987 1873 PLATE PLACEMENT TOL. = 0.250 inches PLATE ROTATION TOL. = 5.0 Deg. JSI GRIP= 0.64 (I) (INPUT = 0.90) JSI METAL= 0.20 (B) (INPUT = 1.00)																																																																																																																																																																																																																																																																																																															
PLATES (table is in inches) JT TYPE PLATES W LEN Y X B TMV+p MT20 2.0 4.0 C, D, E, G, H, J, K, L, M C TMW+w MT20 2.0 4.0 F TS-t MT20 3.0 6.0 I TT-i MT20 3.0 4.0 1.75 2.00 N TMV+p MT20 2.0 4.0 P BMV1+p MT20 2.0 4.0 Q, R, S, U, V, W, X, Y, Z Q BMW1+w MT20 2.0 4.0 T BS-t MT20 3.0 6.0 AA BMV1+p MT20 2.0 4.0				<table><tr><th colspan="2">CHORDS</th><th colspan="2">MAX. FACTORED</th><th colspan="2">FACTORED</th><th colspan="2">WEBS</th><th colspan="2">MAX. FACTORED</th></tr><tr><th>MEMB.</th><th>FORCE (LBS)</th><th>VERT. LOAD (PLF)</th><th>LC1</th><th>MAX</th><th>UNBRAC LENGTH</th><th>MEMB.</th><th>FORCE (LBS)</th><th>MAX</th><th>LC1</th></tr><tr><td>FR-TO</td><td></td><td>FROM</td><td>TO</td><td>CSI (LC)</td><td></td><td>FR-TO</td><td></td><td></td><td></td></tr><tr><td>A- B</td><td>0 / 60</td><td>-78.0</td><td>-78.0</td><td>0.31 (1)</td><td>10.00</td><td>Q- M</td><td>-204 / 0</td><td>0.16 (1)</td><td></td></tr><tr><td>B- C</td><td>-72 / 0</td><td>-78.0</td><td>-78.0</td><td>0.25 (1)</td><td>6.25</td><td>R- L</td><td>-165 / 0</td><td>0.13 (1)</td><td></td></tr><tr><td>C- D</td><td>0 / 4</td><td>-78.0</td><td>-78.0</td><td>0.05 (1)</td><td>10.00</td><td>S- K</td><td>-171 / 0</td><td>0.14 (1)</td><td></td></tr><tr><td>D- E</td><td>-9 / 0</td><td>-78.0</td><td>-78.0</td><td>0.05 (1)</td><td>10.00</td><td>U- J</td><td>-173 / 0</td><td>0.14 (1)</td><td></td></tr><tr><td>E- F</td><td>-4 / 0</td><td>-78.0</td><td>-78.0</td><td>0.03 (1)</td><td>10.00</td><td>V- H</td><td>-161 / 0</td><td>0.13 (1)</td><td></td></tr><tr><td>F- G</td><td>-4 / 0</td><td>-78.0</td><td>-78.0</td><td>0.03 (1)</td><td>10.00</td><td>W- G</td><td>-152 / 0</td><td>0.10 (1)</td><td></td></tr><tr><td>G- H</td><td>0 / 0</td><td>-78.0</td><td>-78.0</td><td>0.04 (1)</td><td>10.00</td><td>X- E</td><td>-150 / 0</td><td>0.16 (1)</td><td></td></tr><tr><td>H- I</td><td>-20 / 0</td><td>-78.0</td><td>-78.0</td><td>0.04 (1)</td><td>6.25</td><td>Y- D</td><td>-181 / 0</td><td>0.10 (1)</td><td></td></tr><tr><td>P- N</td><td>-83 / 0</td><td>0.0</td><td>0.0</td><td>0.01 (1)</td><td>6.25</td><td>Z- C</td><td>-42 / 0</td><td>0.01 (1)</td><td></td></tr><tr><td>AA- B</td><td>-370 / 0</td><td>0.0</td><td>0.0</td><td>0.08 (1)</td><td>7.81</td><td></td><td></td><td></td><td></td></tr><tr><td>I- J</td><td>0 / 1</td><td>-85.5</td><td>-85.5</td><td>0.04 (1)</td><td>2.00</td><td></td><td></td><td></td><td></td></tr><tr><td>J- K</td><td>0 / 0</td><td>-85.5</td><td>-85.5</td><td>0.04 (1)</td><td>2.00</td><td></td><td></td><td></td><td></td></tr><tr><td>K- L</td><td>0 / 0</td><td>-85.5</td><td>-85.5</td><td>0.04 (1)</td><td>2.00</td><td></td><td></td><td></td><td></td></tr><tr><td>L- M</td><td>0 / 0</td><td>-85.5</td><td>-85.5</td><td>0.05 (1)</td><td>2.00</td><td></td><td></td><td></td><td></td></tr><tr><td>M- N</td><td>0 / 0</td><td>-85.5</td><td>-85.5</td><td>0.05 (1)</td><td>2.00</td><td></td><td></td><td></td><td></td></tr><tr><td>AA- Z</td><td>0 / 9</td><td>-18.5</td><td>-18.5</td><td>0.08 (1)</td><td>10.00</td><td></td><td></td><td></td><td></td></tr><tr><td>Z- Y</td><td>0 / 8</td><td>-18.5</td><td>-18.5</td><td>0.02 (4)</td><td>10.00</td><td></td><td></td><td></td><td></td></tr><tr><td>Y- X</td><td>0 / 5</td><td>-18.5</td><td>-18.5</td><td>0.02 (4)</td><td>10.00</td><td></td><td></td><td></td><td></td></tr><tr><td>X- W</td><td>0 / 3</td><td>-18.5</td><td>-18.5</td><td>0.01 (4)</td><td>10.00</td><td></td><td></td><td></td><td></td></tr><tr><td>W- V</td><td>0 / 2</td><td>-18.5</td><td>-18.5</td><td>0.01 (4)</td><td>10.00</td><td></td><td></td><td></td><td></td></tr><tr><td>V- U</td><td>0 / 0</td><td>-18.5</td><td>-18.5</td><td>0.01 (4)</td><td>10.00</td><td></td><td></td><td></td><td></td></tr><tr><td>U- T</td><td>0 / 0</td><td>-18.5</td><td>-18.5</td><td>0.01 (4)</td><td>10.00</td><td></td><td></td><td></td><td></td></tr><tr><td>T- S</td><td>0 / 0</td><td>-18.5</td><td>-18.5</td><td>0.01 (4)</td><td>10.00</td><td></td><td></td><td></td><td></td></tr><tr><td>S- R</td><td>0 / 0</td><td>-18.5</td><td>-18.5</td><td>0.01 (4)</td><td>10.00</td><td></td><td></td><td></td><td></td></tr><tr><td>R- Q</td><td>0 / 0</td><td>-18.5</td><td>-18.5</td><td>0.02 (4)</td><td>10.00</td><td></td><td></td><td></td><td></td></tr><tr><td>Q- P</td><td>0 / 0</td><td>-18.5</td><td>-18.5</td><td>0.02 (4)</td><td>10.00</td><td></td><td></td><td></td><td></td></tr><tr><td>P- O</td><td>0 / 0</td><td>-18.5</td><td>-18.5</td><td>0.02 (4)</td><td>10.00</td><td></td><td></td><td></td><td></td></tr></table>				CHORDS		MAX. FACTORED		FACTORED		WEBS		MAX. FACTORED		MEMB.	FORCE (LBS)	VERT. LOAD (PLF)	LC1	MAX	UNBRAC LENGTH	MEMB.	FORCE (LBS)	MAX	LC1	FR-TO		FROM	TO	CSI (LC)		FR-TO				A- B	0 / 60	-78.0	-78.0	0.31 (1)	10.00	Q- M	-204 / 0	0.16 (1)		B- C	-72 / 0	-78.0	-78.0	0.25 (1)	6.25	R- L	-165 / 0	0.13 (1)		C- D	0 / 4	-78.0	-78.0	0.05 (1)	10.00	S- K	-171 / 0	0.14 (1)		D- E	-9 / 0	-78.0	-78.0	0.05 (1)	10.00	U- J	-173 / 0	0.14 (1)		E- F	-4 / 0	-78.0	-78.0	0.03 (1)	10.00	V- H	-161 / 0	0.13 (1)		F- G	-4 / 0	-78.0	-78.0	0.03 (1)	10.00	W- G	-152 / 0	0.10 (1)		G- H	0 / 0	-78.0	-78.0	0.04 (1)	10.00	X- E	-150 / 0	0.16 (1)		H- I	-20 / 0	-78.0	-78.0	0.04 (1)	6.25	Y- D	-181 / 0	0.10 (1)		P- N	-83 / 0	0.0	0.0	0.01 (1)	6.25	Z- C	-42 / 0	0.01 (1)		AA- B	-370 / 0	0.0	0.0	0.08 (1)	7.81					I- J	0 / 1	-85.5	-85.5	0.04 (1)	2.00					J- K	0 / 0	-85.5	-85.5	0.04 (1)	2.00					K- L	0 / 0	-85.5	-85.5	0.04 (1)	2.00					L- M	0 / 0	-85.5	-85.5	0.05 (1)	2.00					M- N	0 / 0	-85.5	-85.5	0.05 (1)	2.00					AA- Z	0 / 9	-18.5	-18.5	0.08 (1)	10.00					Z- Y	0 / 8	-18.5	-18.5	0.02 (4)	10.00					Y- X	0 / 5	-18.5	-18.5	0.02 (4)	10.00					X- W	0 / 3	-18.5	-18.5	0.01 (4)	10.00					W- V	0 / 2	-18.5	-18.5	0.01 (4)	10.00					V- U	0 / 0	-18.5	-18.5	0.01 (4)	10.00					U- T	0 / 0	-18.5	-18.5	0.01 (4)	10.00					T- S	0 / 0	-18.5	-18.5	0.01 (4)	10.00					S- R	0 / 0	-18.5	-18.5	0.01 (4)	10.00					R- Q	0 / 0	-18.5	-18.5	0.02 (4)	10.00					Q- P	0 / 0	-18.5	-18.5	0.02 (4)	10.00					P- O	0 / 0	-18.5	-18.5	0.02 (4)	10.00					LATERAL BRACE(S) SHOWN SHALL BE 2X4 SPF#2			
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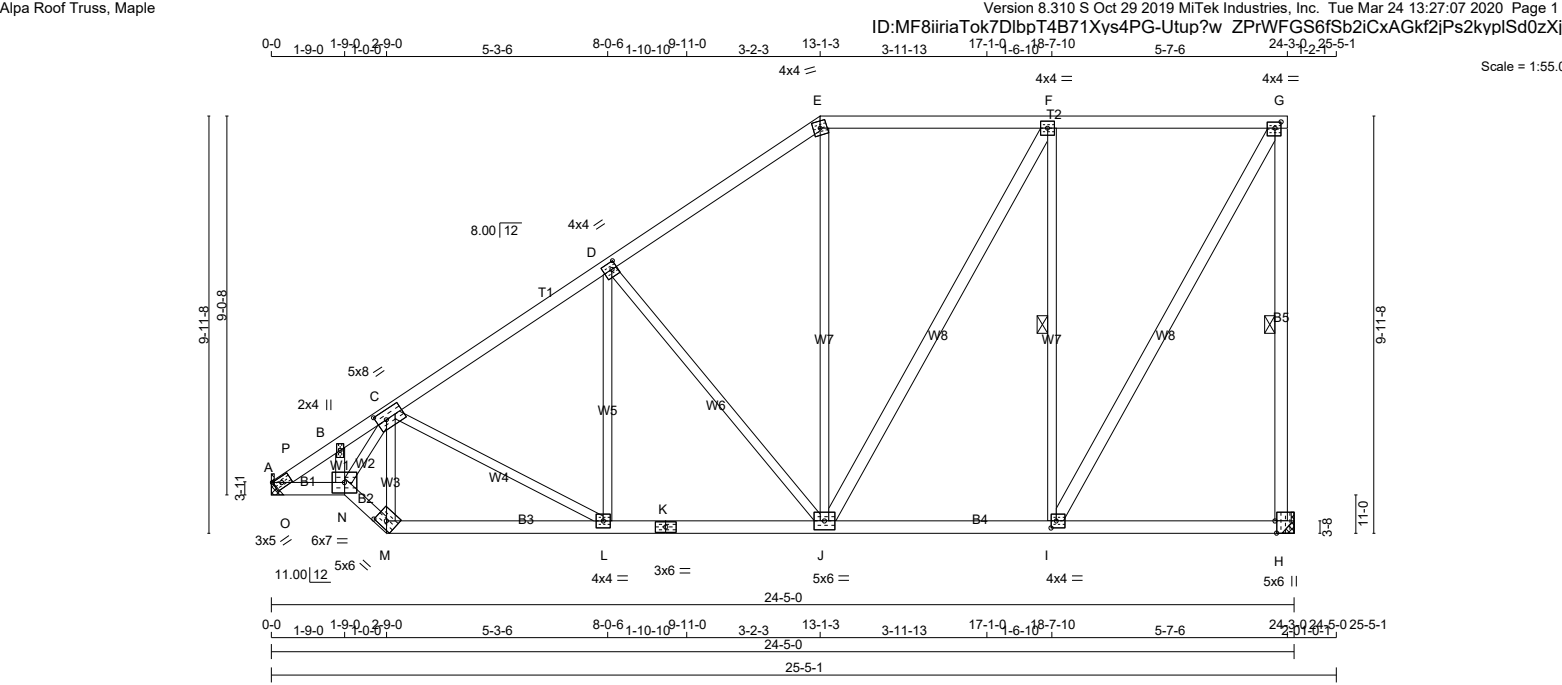
LUMBER										DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER										DESIGN CRITERIA									
N. L. G. A. RULES																				SPECIFIED LOADS:									
CHORDS SIZE LUMBER																				TOP CH. LL = 21.0 PSF									
A - D 2x4 DRY No.2										DESCR. SPF										DL = 6.0 PSF									
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H - G 2x4 DRY No.2																				DL = 7.4 PSF									
B - H 2x4 DRY No.2																				TOTAL LOAD = 34.4 PSF									
ALL WEBS 2x3 DRY No.2										SPF										BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S)									
EXCEPT																													
ALL GABLE WEBS																				BRACING									
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JT TYPE PLATES W LEN Y X										CHORDS										WEBS									
B TMB1-I MT20 3.0 4.0										MAX. FACTORED FORCE (LBS)										MAX. FACTORED FORCE (LBS)									
C, E, F										VERT. LOAD LC1 MAX. UNBRACED LENGTH										MAX. FACTORED FORCE (LBS)									
C T MW+w MT20 2.0 4.0										FROM TO										FROM TO									
D TT+m MT20 3.0 4.0										A-B 0 / 6										I-F -167 / 0									
G TMV+p MT20 2.0 4.0										B-M -18 / 0										J-E -160 / 0									
H BMV1+p MT20 2.0 4.0										M-C 0 / 1										K-C -180 / 0									
I, J, K										C-D -14 / 0										L-M -58 / 3									
I BMW1+w MT20 2.0 4.0										D-E 0 / 0																			
Edge - INDICATES REFERENCE CORNER OF PLATE TOUCHES EDGE OF CHORD.										E-F 0 / 0																			
										F-G 0 / 0																			
										H-G -63 / 0																			
										B-L 0 / 9																			
										L-K 0 / 9																			
										K-J 0 / 0																			
										J-I 0 / 0																			
										I-H 0 / 0																			

LATERAL BRACE(S) SHOWN SHALL BE 2X4 SPF#2





JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
318401	H8T		1	TRUSS DESC. JT 45147	E20035264

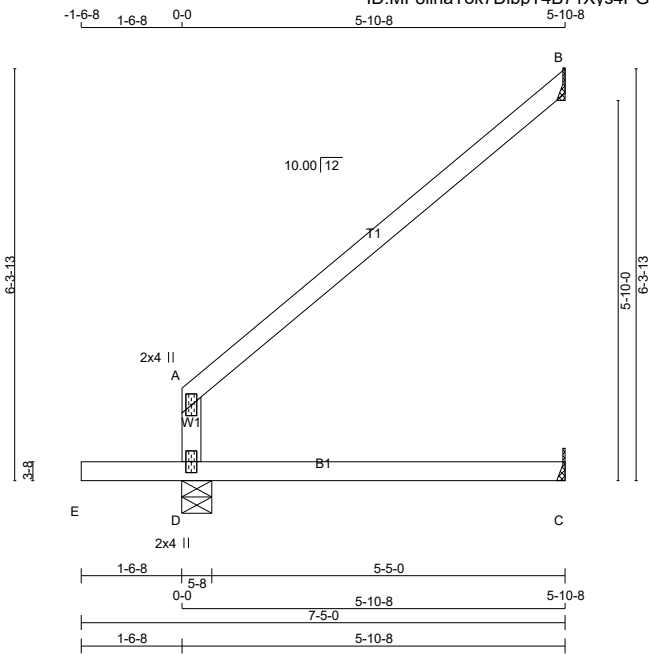


JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
318442	J06		1	TRUSS DESC. JT 45147	E20035287

Alpa Roof Truss, Maple

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ID:MF8iiriaTok7DlbpT4B71Xys4PG-cQBh vo4yo4b04shmsBRadyXMUPT671mL5zQGnXj?x



TOTAL WEIGHT = 3 X 19 = 56 lb [M]

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

DRY: SEASONED LUMBER.

PLATES (table is in inches)				
JT	TYPE	PLATES	W	LEN Y X
A	TMV+p	MT20	2.0	4.0
D	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		
D	486	0	486	0	5-8	1-8
B	189	0	189	0	MECHANICAL	
C	41	0	46	0	MECHANICAL	

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

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

UNFACTORED REACTIONS

JT	COMBINED	1ST LCASE		MAX./MIN. COMPONENT REACTIONS		WIND	DEAD	SOIL
		SNOW	LIVE	PERM	LIVE			
D	347	210 / 0	0 / 0	0 / 0	0 / 0	0 / 0	137 / 0	0 / 0
B	131	102 / 0	0 / 0	0 / 0	0 / 0	0 / 0	29 / 0	0 / 0
C	33	0 / 0	0 / 0	0 / 0	0 / 0	0 / 0	33 / 0	0 / 0

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 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. FR-TO	MAX. FACTORED FORCE (LBS)	MAX CSI (LC)
FR-TO		FROM	TO				
D-A	-269 / 0	0.0	0.0	0.32 (1)	7.81		
A-B	-26 / 0	-78.0	-78.0	0.32 (1)	6.25		
E-D	0 / 0	-96.5	-96.5	0.16 (1)	10.00		
D-C	0 / 0	-18.5	-18.5	0.19 (4)	10.00		

DESIGN CRITERIA

SPECIFIED LOADS:

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

SPACING = 24.0 IN. C/C

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

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

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

(55 % OF 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.(TL)= L/360 (0.20")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.02")

CANTILEVER DEFLECTION:
ALLOWABLE DEFL.(LL)= L/120 (0.19")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.01")
ALLOWABLE DEFL.(TL)= L/120 (0.19")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.01")

CSI: TC=0.32/1.00 (A-D:1) , BC=0.19/1.00 (C-D:4) ,
WB=0.00/1.00 (n/a:0) , SSI=0.16/1.00 (A-B:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE RIGHT HEEL ONLY

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

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.18 (A) (INPUT = 0.90)
JSI METAL= 0.14 (A) (INPUT = 1.00)

LATERAL BRACE(S) SHOWN SHALL BE 2X4 SPF#2

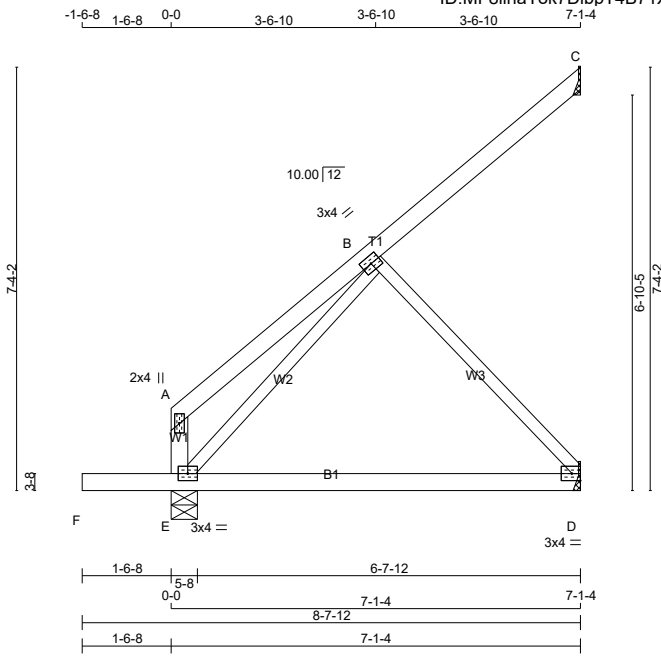


JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
318442	J07		1	TRUSS DESC. JT 45147	E20035288

Alpa Roof Truss, Maple

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TOTAL WEIGHT = 7 X 30 = 210 lb

LUMBER				
N. L. G. A. RULES				
CHORDS	SIZE	LUMBER	DESCR.	
E - A	2x4	DRY	No.2	SPF
A - C	2x4	DRY	No.2	SPF
F - 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
A	TMV+p	MT20	2.0	4.0
B	TMWW-t	MT20	3.0	4.0
D	BMW1-t	MT20	3.0	4.0
E	BMVW1-t	MT20	3.0	4.0

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

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

BEARINGS		FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG		REQRD BRG	
JT	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX		
E	489	0	489	0	0	5-8	1-8		
C	111	0	111	0	0	MECHANICAL			
D	233	0	233	0	0	MECHANICAL			

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

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

UNFACTORED REACTIONS		1ST LCASE		MAX./MIN. COMPONENT REACTIONS	
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND
E	349	213 / 0	0 / 0	0 / 0	0 / 0
C	77	60 / 0	0 / 0	0 / 0	0 / 0
D	168	90 / 0	0 / 0	0 / 0	0 / 0

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

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

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

LOADING
TOTAL LOAD CASES: (4)

CHORDS		MAX. FACTORED FORCE (LBS)		FACTORED VERT. LOAD (PLF)		MAX. FACTORED VERT. LOAD (PLF)		CSi (LC)	
MEMB.	FR-TO	FROM	TO	MEMB.	FR-TO	FROM	TO	MEMB.	FR-TO
E-A	-98 / 0	0.0	0.0	0.01 (1)	7.81	E-B	-234 / 0	0.10 (1)	
A-B	0 / 22	-78.0	-78.0	0.17 (1)	10.00	B-D	-227 / 0	0.11 (1)	
B-C	-21 / 0	-78.0	-78.0	0.13 (1)	6.25				
F-E	0 / 0	-96.5	-96.5	0.16 (1)	10.00				
E-D	0 / 154	-18.5	-18.5	0.28 (4)	10.00				

DESIGN CRITERIA

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

SPACING = 24.0 IN./C

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

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

(55 % OF 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.(TL)= L/360 (0.23")
CALCULATED VERT. DEFL.(TL)= L/ 765 (0.11")

CANTILEVER DEFLECTION:
ALLOWABLE DEFL.(LL)= L/120 (0.19")
CALCULATED VERT. DEFL.(LL)= L/ 999 (0.01")
ALLOWABLE DEFL.(TL)= L/120 (0.19")
CALCULATED VERT. DEFL.(TL)= L/ 999 (0.01")

CSi: TC=0.17/1.00 (A-B:1) , BC=0.28/1.00 (D-E:4) ,
WB=0.11/1.00 (B-D:1) , SSI=0.12/1.00 (E-F:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

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

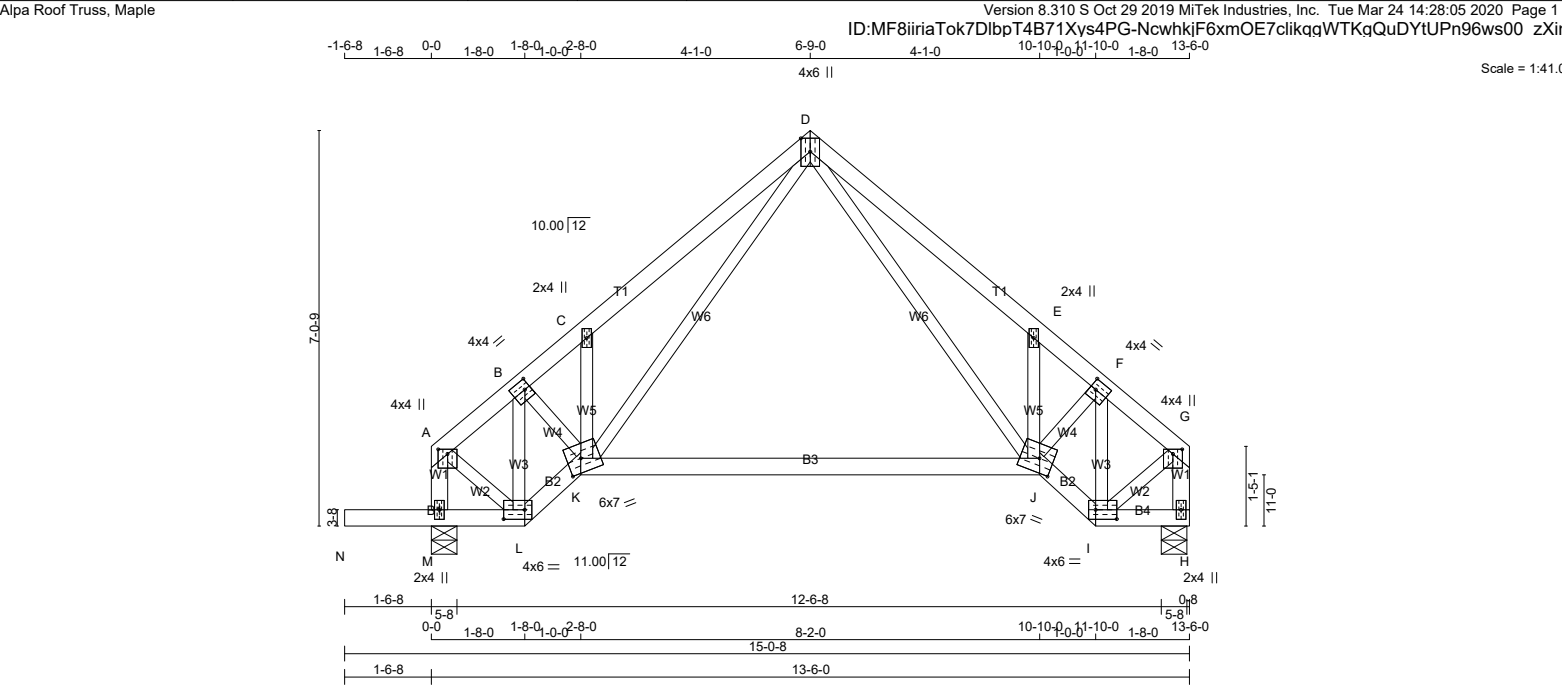
PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.34 (B) (INPUT = 0.90)
JSI METAL= 0.08 (B) (INPUT = 1.00)

LATERAL BRACE(S) SHOWN SHALL BE 2X4 SPF#2

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
318443	H3T		1	TRUSS DESC. JT 45147	E20035289



LUMBER N. L. G. A. RULES CHORDS SIZE LUMBER A - D 2x4 DRY No.2 D - G 2x4 DRY No.2 M - A 2x4 DRY No.2 H - G 2x4 DRY No.2 N - L 2x4 DRY No.2 L - K 2x4 DRY No.2 K - J 2x4 DRY No.2 J - I 2x4 DRY No.2 I - H 2x4 DRY No.2 ALL WEBS 2x3 DRY No.2 EXCEPT				DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER BEARINGS FACTORED GROSS REACTION MAXIMUM FACTORED GROSS REACTION INPUT REQD JT VERT HORZ DOWN HORZ UPLIFT IN-SX BRG IN-SX BRG H 643 0 643 0 0 5-8 1-8 M 808 0 808 0 0 5-8 1-8 UNFACTORED REACTIONS 1ST LCASE MAX./MIN. COMPONENT REACTIONS JT COMBINED SNOW LIVE PERM.LIVE WIND DEAD SOIL H 458 280 / 0 0 / 0 0 / 0 0 / 0 179 / 0 0 / 0 M 576 352 / 0 0 / 0 0 / 0 0 / 0 225 / 0 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 THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBC 2015 THIS DESIGN COMPLIES WITH: - PART 9 OF CBC 2018, ABC 2019 - PART 9 OF OBC 2012 (2019 AMENDMENT) - CSA 086-14 - TPIC 2014 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 (0.45") CALCULATED VERT. DEFL.(LL) = L/ 999 (0.01") ALLOWABLE DEFL.(TL)= L/360 (0.45") CALCULATED VERT. DEFL.(TL) = L/ 709 (0.23") CANTILEVER DEFLECTION: ALLOWABLE DEFL.(LL)= L/120 (0.19") CALCULATED VERT. DEFL.(LL) = L/ 999 (0.01") ALLOWABLE DEFL.(TL)= L/120 (0.19") CALCULATED VERT. DEFL.(TL) = L/ 999 (0.02") CSI: TC=0.16/1.00 (D-E:1) , BC=0.39/1.00 (J-K:4) , WB=0.11/1.00 (D-J:1) , SSI=0.12/1.00 (M-N:1) DOL LUMBER=1.00 NAIL=1.00 LS BEND=1.10 COMP=1.10 SHEAR=1.10 TENS= 1.10 COMPANION LIVE LOAD FACTOR = 1.00 TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT . NAIL VALUES PLATE GRIP(DRY) SHEAR SECTION (PS) (PLI) (PLI) MAX MIN MAX MIN MAX MIN MT20 650 371 1747 788 1987 1873 PLATE PLACEMENT TOL. = 0.250 inches PLATE ROTATION TOL. = 5.0 Deg. JSI GRIP= 0.66 (K) (INPUT = 0.90) JSI METAL= 0.18 (E) (INPUT = 1.00)			
---	--	--	--	--	--	--	--	--	--	--	--

DRY: SEASONED LUMBER.

PLATES (table is in inches)

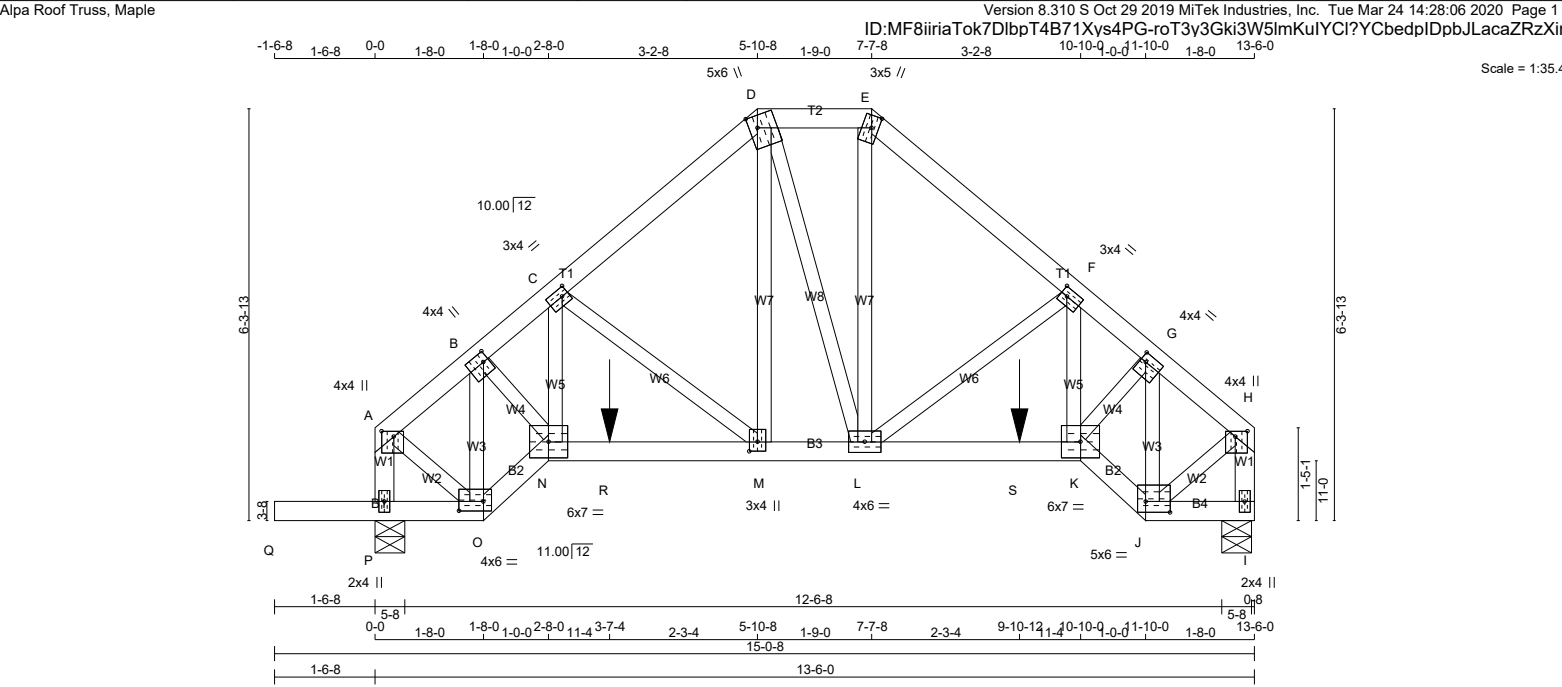
JT	TYPE	PLATES	W	LEN	Y	X
A	TMVW+p	MT20	4.0	4.0	1.00	2.00
B	TMWW-t	MT20	4.0	4.0	2.00	1.25
C	TMW+w	MT20	2.0	4.0		
D	TTWW+p	MT20	4.0	6.0	Edge	
E	TMW+w	MT20	2.0	4.0		
F	TMWW-t	MT20	4.0	4.0	2.00	1.25
G	TMVW+p	MT20	4.0	4.0	1.00	2.00
H	BMV1+p	MT20	2.0	4.0		
I	BBWW-i	MT20	4.0	6.0	2.00	4.50
J	BBWWW-m	MT20	6.0	7.0	3.00	3.00
K	BBWWW-m	MT20	6.0	7.0	3.00	3.00
L	BBWW-i	MT20	4.0	6.0	2.00	4.50
M	BMV1+p	MT20	2.0	4.0		

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

LATERAL BRACE(S) SHOWN SHALL BE 2X4 SPF#2



JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
318443	H51T		1	TRUSS DESC. JT 45147	E20035290



LUMBER			DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER			DESIGN CRITERIA		
N. L. G. A. RULES			BEARINGS			*** SPECIAL LOADS ANALYSIS ***		
CHORDS	SIZE	LUMBER	DESCR.	FACTORED	MAXIMUM FACTORED	INPUT	REQRD	GEOMETRY AND/OR BASIC LOADS CHANGED BY USER.
A - D	2x4	DRY	No.2	SPF	GROSS REACTION	GROSS REACTION	BRG	LOADS WERE DERIVED FROM USER INPUT
D - E	2x4	DRY	No.2	SPF	JOINT	JOINT	IN-SX	NO FURTHER MODIFICATIONS WERE MADE
E - H	2x4	DRY	No.2	SPF	JOINT	JOINT	IN-SX	
P - A	2x4	DRY	No.2	SPF	JOINT	JOINT	IN-SX	
I - H	2x4	DRY	No.2	SPF	JOINT	JOINT	IN-SX	
Q - O	2x4	DRY	No.2	SPF	JOINT	JOINT	IN-SX	
O - N	2x4	DRY	No.2	SPF	JOINT	JOINT	IN-SX	
N - K	2x4	DRY	No.2	SPF	JOINT	JOINT	IN-SX	
K - J	2x4	DRY	No.2	SPF	JOINT	JOINT	IN-SX	
J - I	2x4	DRY	No.2	SPF	JOINT	JOINT	IN-SX	
ALL WEBS	2x3	DRY	No.2	SPF	JOINT	JOINT	IN-SX	
EXCEPT								

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
A	TMVW+p	MT20	4.0	4.0	1.00	2.25
B	TMWW+t	MT20	4.0	4.0	1.75	1.00
C	TMWW-t	MT20	3.0	4.0	1.50	1.25
D	TTWW+m	MT20	5.0	6.0	2.25	1.50
E	TTW+m	MT20	3.0	5.0	2.25	1.25
F	TMWW-t	MT20	3.0	4.0	1.50	1.25
G	TMWW-t	MT20	4.0	4.0	1.50	1.00
H	TMVW+p	MT20	4.0	4.0	1.00	2.25
I	BMV1+p	MT20	2.0	4.0		
J	BBWW-l	MT20	5.0	6.0	2.00	4.50
K	BBWW-l	MT20	6.0	7.0		
L	BMWWW-t	MT20	4.0	6.0		
M	BMWWW-t	MT20	3.0	4.0	1.75	1.50
N	BBWW-l	MT20	6.0	7.0		
O	BBWW-l	MT20	4.0	6.0	1.75	4.50
P	BMV1+p	MT20	2.0	4.0		

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.79 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS				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			
A-B	-1140 / 0	-78.0 -78.0 0.08 (1)	5.85	O-B	-1313 / 0	0.24 (1)	
B-C	-1823 / 0	-78.0 -78.0 0.12 (1)	4.83	B-N	0 / 1028	0.25 (1)	
C-D	-1390 / 0	-78.0 -78.0 0.14 (1)	5.35	N-C	0 / 336	0.08 (1)	
D-E	-1080 / 0	-78.0 -78.0 0.06 (1)	5.99	C-M	-457 / 0	0.13 (1)	
E-F	-1401 / 0	-78.0 -78.0 0.14 (1)	5.34	M-D	0 / 686	0.17 (1)	
F-G	-1860 / 0	-78.0 -78.0 0.12 (1)	4.79	D-L	0 / 30	0.01 (1)	
G-H	-1186 / 0	-78.0 -78.0 0.08 (1)	5.76	L-E	0 / 722	0.18 (1)	
P-A	-1353 / 0	0.0 0.0 0.15 (1)	6.94	L-F	-481 / 0	0.14 (1)	
I-H	-1405 / 0	0.0 0.0 0.16 (1)	6.84	K-F	0 / 367	0.09 (1)	
				K-G	0 / 1017	0.25 (1)	
Q-P	0 / 0	-96.5 -96.5 0.17 (1)	10.00	J-G	-1299 / 0	0.23 (1)	
P-O	-1 / 0	-37.2 -37.2 0.17 (1)	10.00	A-O	0 / 1027	0.25 (1)	
O-N	0 / 1097	-37.2 -37.2 0.20 (1)	10.00	J-H	0 / 1068	0.26 (1)	
N-R	0 / 1418	-37.2 -37.2 0.76 (1)	10.00				
R-M	0 / 1418	-112.0 -112.0 0.76 (1)	10.00				
M-L	0 / 1070	-112.0 -112.0 0.50 (1)	10.00				
L-S	0 / 1446	-112.0 -112.0 0.75 (1)	10.00				
S-K	0 / 1446	-37.2 -37.2 0.75 (1)	10.00				
K-J	0 / 1145	-37.2 -37.2 0.21 (1)	10.00				
J-I	0 / 0	-37.3 -37.3 0.03 (4)	10.00				

FACTORED CONCENTRATED LOADS (LBS)

JT	LOC.	LC1	MAX-	MAX+	FACE	DIR.	TYPE	HEEL	CONN.
R	3-7-4	-432	-432	---	FRONT	VERT	TOTAL	---	C1
S	9-10-12	-432	-432	---	FRONT	VERT	TOTAL	---	C1

CONNECTION REQUIREMENTS

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

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

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

GIRDER TYPE: CStdGirder
START DISTANCE = 3-7-4
START SPAN CARRIED = 5-10-8
END DISTANCE = 9-10-12
END SPAN CARRIED = 5-10-8
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, NBC 2015

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

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 (0.45")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.06")
ALLOWABLE DEFL.(TL)= L/360 (0.45")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.11")

CANTILEVER DEFLECTION:
ALLOWABLE DEFL.(LL)= L/120 (0.19")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.00")
ALLOWABLE DEFL.(TL)= L/120 (0.19")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.00")

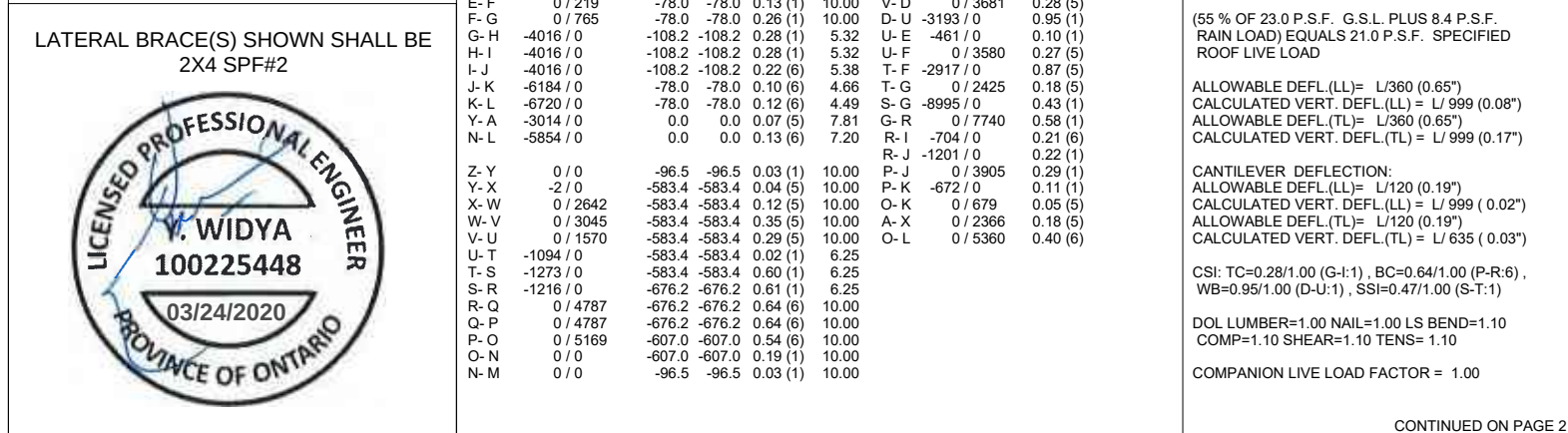
CSI: TC=0.16/1.00 (H-I:1) , BC=0.76/1.00 (M-N:1) , WB=0.26/1.00 (H-J:1) , SSI=0.33/1.00 (M-N:1)

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

LATERAL BRACE(S) SHOWN SHALL BE 2X4 SPF#2





JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
318443	H52T		3	TRUSS DESC. JT 45147	E20035291(2)

STAGGER NAILS BY HALF THE SURFACE SPACING IN ADJACENT PLIES.

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

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
A	TMVW+p	MT20	5.0	6.0	2.00	2.25
B, C, K						
B	TMWW-t	MT20	4.0	4.0	2.00	1.25
D	TTWW+m	MT20	4.0	6.0	Edge	1.00
E	TMW+w	MT20	2.0	4.0		
F	TMWW-t	MT20	4.0	4.0	1.50	1.50
G	TMWWW-t	MT20	5.0	14.0	1.75	4.00
H	TS-t	MT20	3.0	6.0		
I	TMW+w	MT20	2.0	4.0		
J	TTWW+m	MT20	5.0	6.0	2.00	1.75
L	TMVW-t	MT20	4.0	9.0	1.50	4.25
N	BMV1+p	MT20	3.0	4.0		
O	BMWW-t	MT20	4.0	6.0	2.00	2.50
P	BMWW+t	MT20	4.0	6.0		
Q	BS-t	MT20	5.0	8.0		
R	BMWWW-t	MT20	7.0	8.0	3.75	3.50
S	BMW1+t	MT20	6.0	9.0	Edge	3.00
T	BBWW-l	MT20	5.0	8.0	2.75	5.00
U	BBWWW+m	MT20	7.0	8.0	4.25	2.75
V	BMWW+t	MT20	4.0	6.0		
W	BBWW-h	MT20	7.0	8.0		
X	BBWW-h	MT20	7.0	8.0	3.00	4.00
Y	BMV1+p	MT20	2.0	4.0		

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

FACTORED CONCENTRATED LOADS (LBS)

JT	LOC.	LC1	MAX-	MAX+	FACE	DIR.	TYPE	HEEL	CONN.
J	25-8-12	-517	-517	---	FRONT	VERT	TOTAL	---	C1

PATTERN-LOADING CHECK APPLIED TO THIS TRUSS.

AUTOSOLVE HEELS OFF

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

NAIL VALUES

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

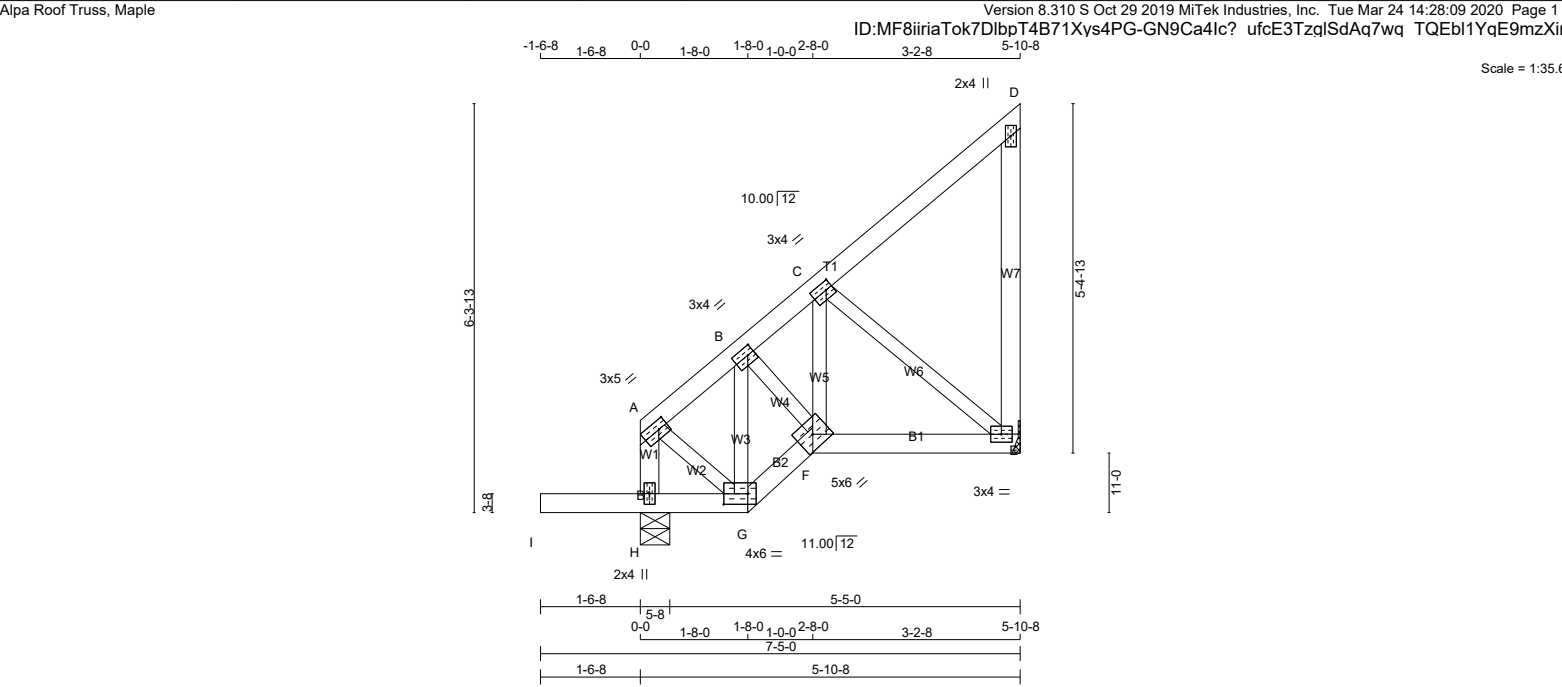
JSI GRIP= 0.90 (L) (INPUT = 0.90)

JSI METAL= 0.71 (Q) (INPUT = 1.00)

LATERAL BRACE(S) SHOWN SHALL BE 2X4 SPF#2



JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
318443	J06T		1	TRUSS DESC. JT 45147	E20035292



LUMBER				
N. L. G. A. RULES				
CHORDS	SIZE	LUMBER	DESCR.	
H - A	2x4	DRY	No.2	SPF
A - D	2x4	DRY	No.2	SPF
E - D	2x4	DRY	No.2	SPF
I - G	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				
DRY: SEASONED LUMBER.				

PLATES (table is in inches)					
JT	TYPE	PLATES	W	LEN	Y X
A	TMVW-t	MT20	3.0	5.0	1.50 1.75
B	TMWW-t	MT20	3.0	4.0	1.50 1.25
C	TMWW-t	MT20	3.0	4.0	1.50 1.25
D	TMV+p	MT20	2.0	4.0	
E	BMVW1-t	MT20	3.0	4.0	
F	BBWW-h	MT20	5.0	6.0	
G	BBWW-l	MT20	4.0	6.0	2.00 4.50
H	BMV1+p	MT20	2.0	4.0	

LATERAL BRACE(S) SHOWN SHALL BE 2X4 SPF#2



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

BEARINGS		FACTORED	MAXIMUM	FACTORED	INPUT	REQRD
		GROSS REACTION	GROSS REACTION	DOWN	BRG	BRG
JT	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX
H	452	0	452	0	0	5-8
E	264	0	264	0	0	1-8

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

UNFACTORED REACTIONS		1ST LCASE	MAX./MIN.	COMPONENT REACTIONS	
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND
H	322	197 / 0	0 / 0	0 / 0	0 / 0
E	188	115 / 0	0 / 0	0 / 0	0 / 0

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

BRACING
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 6.25 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 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	FROM TO	FR-TO	FROM TO
H-A	-219 / 0	A-G	0 / 127
A-B	-140 / 0	G-B	-203 / 0
B-C	-188 / 0	B-F	0 / 122
C-D	-14 / 0	F-C	0 / 47
E-D	-99 / 0	C-E	-219 / 0
I-H	0 / 0		
H-G	-1 / 0		
G-F	0 / 133		
F-E	0 / 171		

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 2015

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

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

(55 % OF 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 (0.20")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.00")
ALLOWABLE DEFL.(TL)= L/360 (0.20")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.01")

CANTILEVER DEFLECTION:
ALLOWABLE DEFL.(LL)= L/120 (0.19")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.02")
ALLOWABLE DEFL.(TL)= L/120 (0.19")
CALCULATED VERT. DEFL.(TL) = L/ 607 (0.03")

CSI: TC=0.09/1.00 (B-C:1) , BC=0.16/1.00 (G-H:1) , WB=0.06/1.00 (C-E:1) , SSI=0.12/1.00 (H-I:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

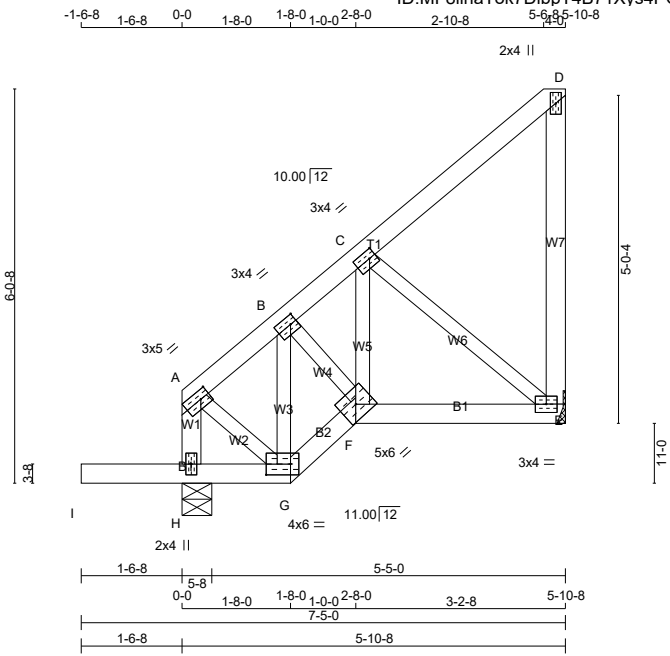
JSI GRIP= 0.27 (E) (INPUT = 0.90)
JSI METAL= 0.06 (E) (INPUT = 1.00)

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
318443	J06TB		1	TRUSS DESC. JT 45147	E20035294

Alpa Roof Truss, Maple

Version 8.310 S Oct 29 2019 MiTek Industries, Inc. Tue Mar 24 14:28:10 2020 Page 1

ID:MF8iiriaTok7DlbpT4B71Xys4PG-kajaoQJEIi0WDNefXOGhAONlqEJh9hruGCaniCzXin3



TOTAL WEIGHT = 2 X 33 = 67 lb

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

DRY: SEASONED LUMBER.

PLATES (table is in inches)					
JT TYPE	PLATES	W	LEN	Y	X
A	TMVW-t	MT20	3.0	5.0	1.50 1.75
B	TMWW-t	MT20	3.0	4.0	1.50 1.25
C	TMWW-t	MT20	3.0	4.0	1.50 1.25
D	TMV+p	MT20	2.0	4.0	
E	BMVW1-t	MT20	3.0	4.0	
F	BBWW-h	MT20	5.0	6.0	
G	BBWW-l	MT20	4.0	6.0	2.00 4.50
H	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
		GROSS REACTION	GROSS REACTION	DOWN	BRG	BRG
JT	VERT	HORZ	HORZ	UPLIFT	IN-SX	IN-SX
E	264	0	264	0	MECHANICAL	
H	452	0	452	0	5-8	1-8

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

UNFACTORED REACTIONS

1ST LCASE	MAX./MIN. COMPONENT REACTIONS						
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
E	188	115 / 0	0 / 0	0 / 0	0 / 0	73 / 0	0 / 0
H	322	197 / 0	0 / 0	0 / 0	0 / 0	125 / 0	0 / 0

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

BRACING

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

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. CSI (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. CSI (LC)	
FR-TO		FROM TO		FR-TO			
A-B	-140 / 0	-78.0 -78.0	0.03 (1)	6.25	G-B	-203 / 0	0.03 (1)
B-C	-188 / 0	-78.0 -78.0	0.09 (1)	6.25	B-F	0 / 122	0.03 (1)
C-D	-14 / 0	-78.0 -78.0	0.09 (1)	6.25	F-C	0 / 47	0.02 (4)
E-D	-99 / 0	0.0 0.0	0.05 (1)	7.81	C-E	-219 / 0	0.06 (1)
H-A	-219 / 0	0.0 0.0	0.02 (1)	7.81	A-G	0 / 127	0.03 (1)
I-H	0 / 0	-96.5 -96.5	0.16 (1)	10.00			
H-G	-1 / 0	-18.5 -18.5	0.16 (1)	10.00			
G-F	0 / 133	-18.5 -18.5	0.02 (1)	10.00			
F-E	0 / 171	-18.5 -18.5	0.07 (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 2015

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

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

(55 % OF 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 (0.20")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.00")
ALLOWABLE DEFL.(TL)= L/360 (0.20")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.01")

CANTILEVER DEFLECTION:
ALLOWABLE DEFL.(LL)= L/120 (0.19")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.02")
ALLOWABLE DEFL.(TL)= L/120 (0.19")
CALCULATED VERT. DEFL.(TL) = L/ 607 (0.03")

CSI: TC=0.09/1.00 (B-C:1) , BC=0.16/1.00 (G-H:1) ,
WB=0.06/1.00 (C-E:1) , SSI=0.12/1.00 (H-I:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.27 (E) (INPUT = 0.90)
JSI METAL= 0.06 (E) (INPUT = 1.00)

LATERAL BRACE(S) SHOWN SHALL BE 2X4 SPF#2



December 18, 2019

Re: Expiration Date for Technical Bulletins Extended to 4/1/2020

Please be advised that the expiration date of the Technical Bulletins listed below has been extended until April 1, 2020.

T-SPECCP17	T-SPECH17	T-SPECDSHGUS17R
T-SPECHGUS17-R	T-SPECHHUS17-R	T-SPECHUS17
T-SPECLF17	T-SPECLT17	T-SPECLU17
T-SPECCLUL17	T-SPECLUS17	T-SPECSUR17
T-SPECTBE17	T-SPECTC17	T-SPECTHGB17
T-SPECTHGBHV17	T-SPECTHGQ17	T-SPECTHGW17
T-SPECLSULSSU17	T-SPECHTHGQ17	T-SPECSTHGQ17

Should you have any questions or concerns regarding the above, please contact me at your convenience.

Sincerely,



Brent Bunting, P.Eng.
Simpson Strong-Tie Canada, Ltd.



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:

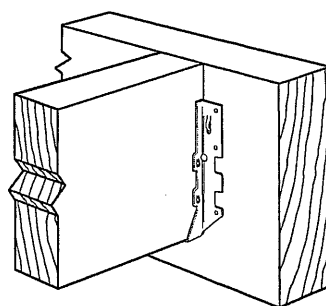
- Factored resistances are in accordance with CSA O86-14.
- Uplift resistances have been increased 15%. No further increase is permitted.
- Wood shear is not considered in the factored resistances given. The specifier must ensure that the joist and header capacities are capable of withstanding these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

Installation:

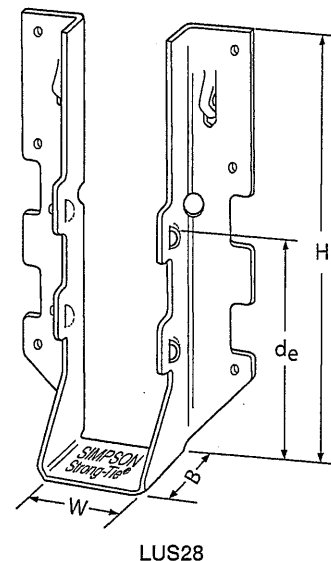
- Use all specified fasteners.
- Nails: 16d = 0.162" dia. x 3½" long common wire, 10d = 0.148" x 3" long common wire.
- Double shear nails must be driven at an angle through the joist or truss into the header to achieve the table loads.
- Not designed for welded or nailer applications.

Options:

- These hangers cannot be modified

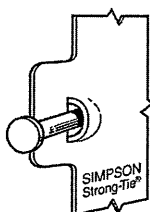


Typical LUS Installation

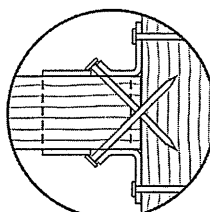


Model No.	Ga.	Dimensions (in.)				Fasteners		Factored Resistance (lb.)			
		W	H	B	d _e ¹	Face	Joist	D.Fir-L		S-P-F	
								Uplift	Normal	Uplift	Normal
								(K _p =1.15)	(K _p =1.00)	(K _p =1.15)	(K _p =1.00)
LUS24	18	1⅞	3⅞	1¾	1 15/16	(4) 10d	(2) 10d	710	1630	645	1155
LUS24-2	18	3⅞	3⅞	2	1 13/16	(4) 16d	(2) 16d	835	2020	590	1435
LUS26	18	1⅞	4¾	1¾	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	1¾	3¾	(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	7 13/16	1¾	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	8¾	2	5¼	(8) 16d	(6) 16d	2580	3345	2320	2375

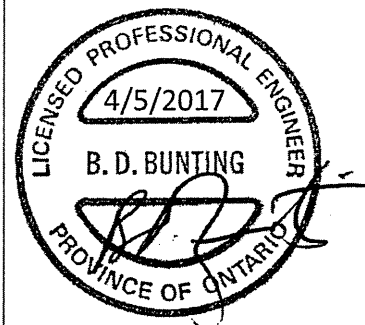
1. d_e is the distance from the seat of the hanger to the highest joist nail.



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



Double Shear Nailing Top View.



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-SPECLUS17 3/17 exp: 6/19

(800) 999-5099
strongtie.com

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:

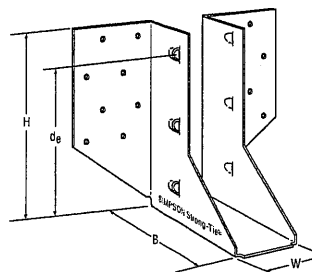
- Factored resistances are in accordance with CSA O86-14.
- Uplift resistances have been increased 15%. No further increase is permitted.
- Wood shear is not considered in the factored resistances given. The specifier must ensure that the joist and header capacities are capable of withstanding these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

Installation:

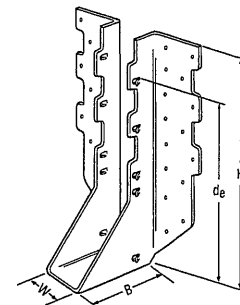
- Use all specified fasteners
- Nails: 16d = 0.162" dia. x 3½" long common wire
- Double shear nails must be driven at an angle through the joist or truss into the header to achieve the table loads
- Not designed for welded or nailer applications

Options:

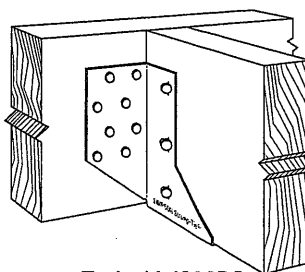
- See current catalogue for options



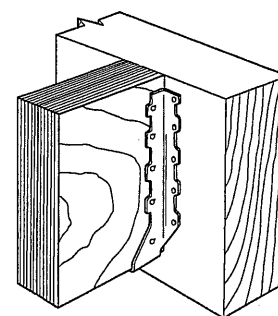
LJS26DS



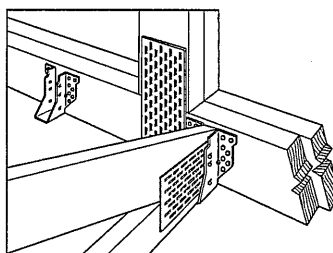
HUS210
(HUS26, HUS28, similar)



Typical LJS26DS
Installation



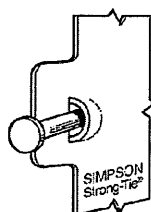
Typical HUS
Installation



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

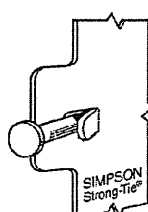
Model No.	Ga.	Dimensions (in.)				Fasteners		Factored Resistance (lb.)			
		W	H	B	d _e ¹	Face	Joist	D.Fir-L		S-P-F	
								Uplift (K ₀ =1.15)	Normal (K ₀ =1.00)	Uplift (K ₀ =1.15)	Normal (K ₀ =1.00)
LJS26DS	18	1⅞	5	3½	4⅝	(16) 16d	(6) 16d	2055	4265	1460	4115
HUS26	16	1⅞	5⅝	3	3⅝	(14) 16d	(6) 16d	2705	4940	2065	3875
HUS28	16	1⅞	7⅝	3	6⅝	(22) 16d	(8) 16d	3605	5365	2675	4345
HUS210	16	1⅞	9⅝	3	7⅝	(30) 16d	(10) 16d	4505	5795	4010	4740
HUS1.81/10	16	1⅞	9	3	8	(30) 16d	(10) 16d	4505	6450	4010	5200

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

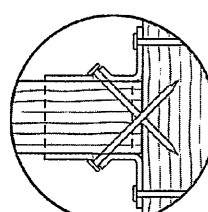


Dome Double Shear Nailing prevents tabs breaking off (available on some models).

U.S. Patent 5,603,580



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



Double Shear Nailing Top View.



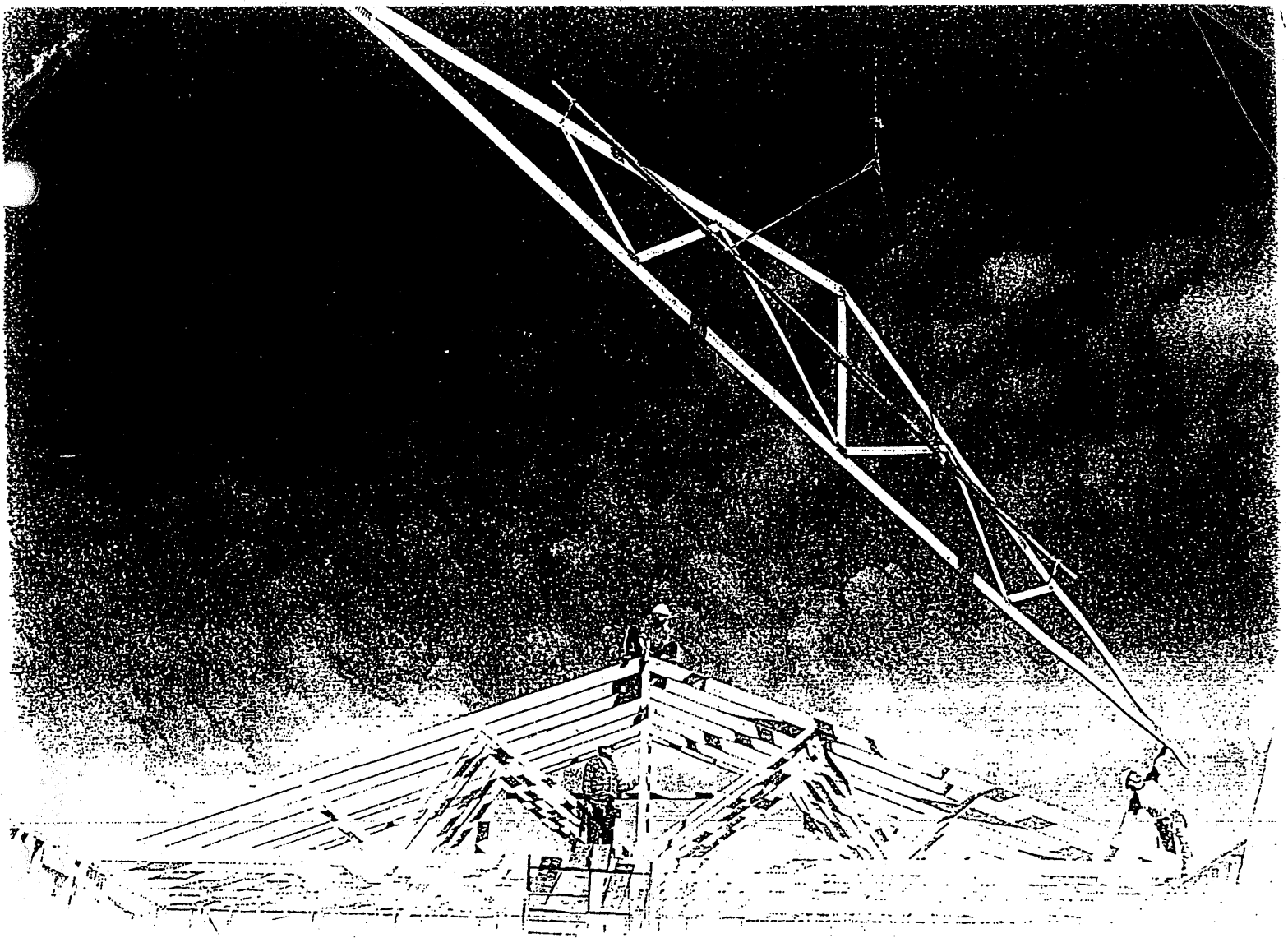
LIMIT
STATES
DESIGN

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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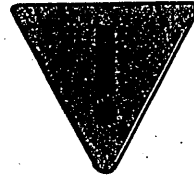
Wood Truss Installation

**A Guide to proper handling, erecting and bracing
metal plate connected wood trusses**

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Warning



General

Familiarity with the Construction Design Documents, the Truss Design Drawings, and Truss Placement Plans (if required by the Construction Design Documents) is required to properly erect, brace, and connect the trusses to the building system.

All of the care and quality involved in the design and manufacture of wood trusses can be jeopardized if the trusses are not properly handled, erected, and braced.

The consequences of improper handling, erecting, and bracing may be a collapse of the structure, which at best is a substantial loss of time and materials, and at worst is a loss of life. The majority of truss accidents occur during truss installation and not as a result of improper design or manufacture.

Prior to truss erection, the builder/erector shall meet with the erection crew for a safety and planning meeting, making sure each crew member understands his or her roles and responsibilities during the erection process.

Temporary Erection Bracing

Trusses are not marked in any way to identify the frequency, or location of temporary erection bracing.

All temporary bracing shall comply with the latest edition of *Commentary and Recommendations for Handling, Installing & Bracing Metal Plate Connected Wood Trusses* (HIB), published by the Truss Plate Institute, and/or as specified in the Construction Design Documents prepared by the building designer.

Permanent Truss Bracing

Permanent bracing for the roof or floor trusses is the responsibility of the building designer and should be shown on the Construction Design Documents. Permanent bracing locations for individual compression members of a wood truss are shown on the Truss Design Drawings, and shall be installed by the building or erection contractor. This bracing is needed for the proper performance of individual trusses within the roof or floor system. The design and connection of the bracing to the truss and then to the overall building system is the responsibility of the building designer, and is in addition to the permanent bracing plan, which is also specified by the building designer.

Special Design Requirements

Special design requirements, such as wind bracing, portal bracing, seismic bracing, diaphragms, shear walls, or other load transfer elements and their connections to wood trusses must be considered separately by the building designer, who shall determine size, location, and method of connections for all bracing as needed to resist these forces.

1 Unloading & Lifting

Never handle trusses flat

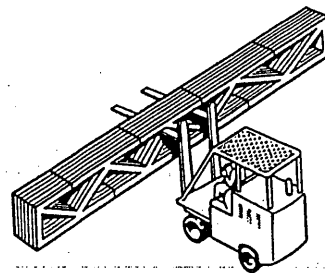
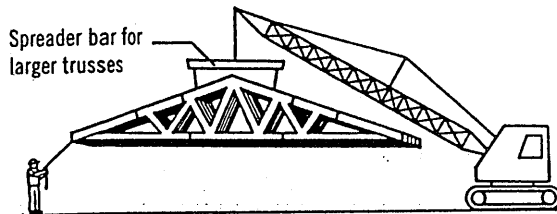
Beginning with the unloading process, and throughout all phases of construction, care must be taken to avoid lateral bending of trusses, which can cause damage to the lumber and metal connector plates at the joints.



Avoid lateral bending

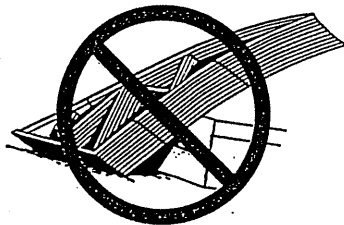
- Use special care in windy weather.
- If using a crane within 10 feet of an electric line, contact the local power company.
- If using a crane within 5 miles of an airport, contact the airport 30 days prior to erection to learn about any safety regulations that must be followed.

2 Job Site Handling



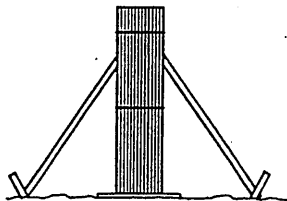
All trusses should be picked up at the top chords in a vertical position only

Proper banding and smooth ground allow for unloading of trusses without damage. This should be done as close to the building site as possible to minimize handling. Do not break banding until installation begins. Hand erection of trusses is allowed, provided excessive lateral bending is prevented.



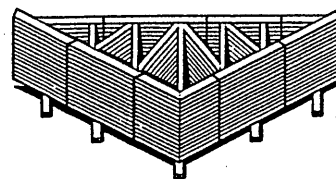
Do not store unbraced bundles upright

If trusses are stored vertically they shall be braced in a manner that will prevent tipping or topping. Generally cutting of the banding is done just prior to installation.



Do not store on uneven ground

If trusses are stored horizontally, blocking should be used on eight to ten foot centers, or as required, to minimize lateral bending and moisture gain.

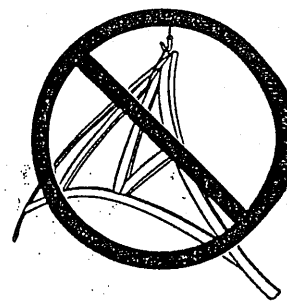


Care should be exercised when removing banding to avoid damaging trusses.

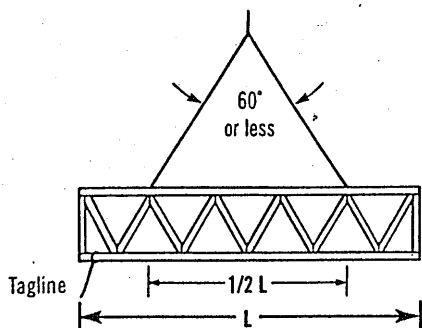
During long term storage, trusses shall be protected from the environment in a manner that provides for adequate ventilation of the trusses. If tarpaulins or other material is used, the ends shall be left open for ventilation. Plastic is not recommended, since it can trap moisture.

3 Hoisting

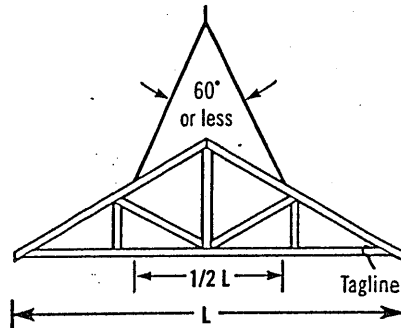
All trusses that are erected one at a time shall be held safely in position by the erection equipment until such time as all necessary bracing has been installed and the ends of the trusses are securely fastened to the building.



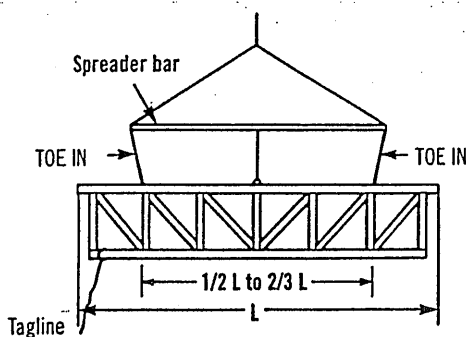
Avoid lateral bending



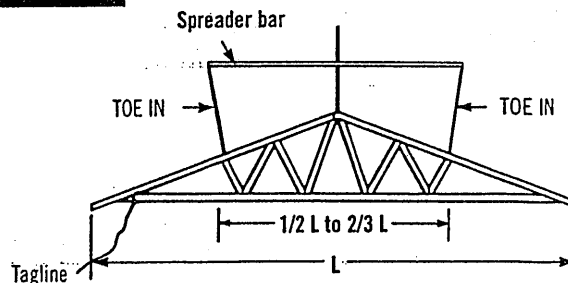
$L \leq 30'$



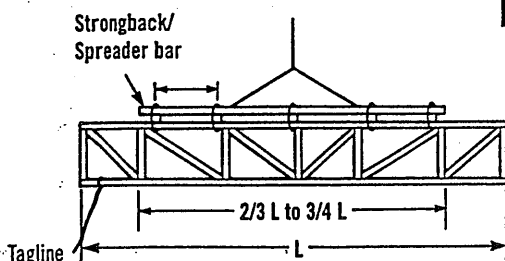
Truss sling is acceptable where these criteria are met.



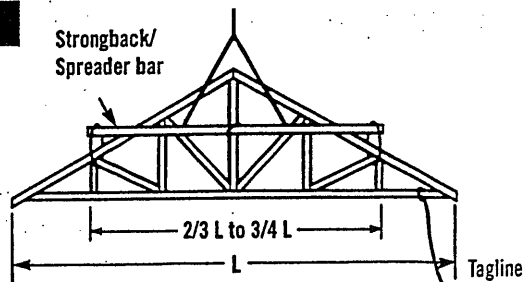
$30' < L \leq 60'$



Use spreader bar in all other cases. It should be noted that the lines from the ends of the spreader bar "TOE IN"; if these lines should "TOE OUT" the truss may fold in half.



$L > 60'$



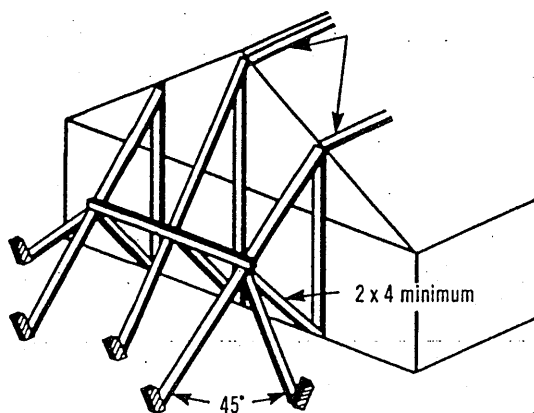
For lifting trusses with spans in excess of 60 feet, it is recommended that a strongback/spreader bar be used as illustrated. The strongback/spreader bar should be attached to the top chord and web members at intervals of approximately 10 feet. Further, the strongback/spreader bar should be at or above the mid-height of the truss to prevent overturning. The strongback/spreader bar can be of any material with sufficient strength to safely carry the weight of the truss and sufficient rigidity to adequately resist bending of the truss.

4 Beginning the Erection Process

It is important for the builder or erection contractor to provide substantial bracing for the first truss erected. The two or more trusses making up the rest of the first set are tied to and rely upon the first truss for stability. Likewise, after this first set of trusses is adequately cross-braced, the remaining trusses installed rely upon this first set for stability. Thus, the performance of the truss bracing system depends to a great extent on how well the first group of trusses is braced.

Ground Brace - Exterior

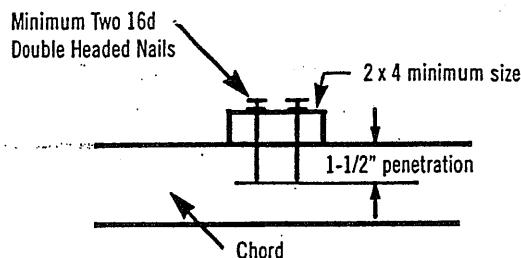
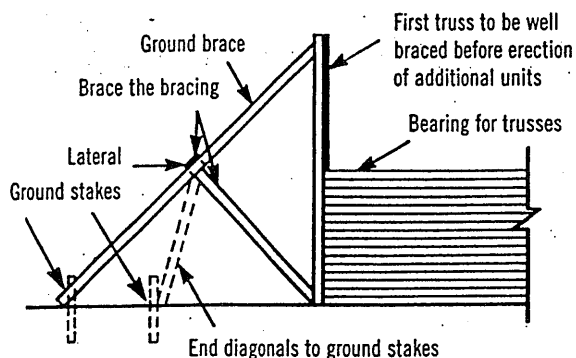
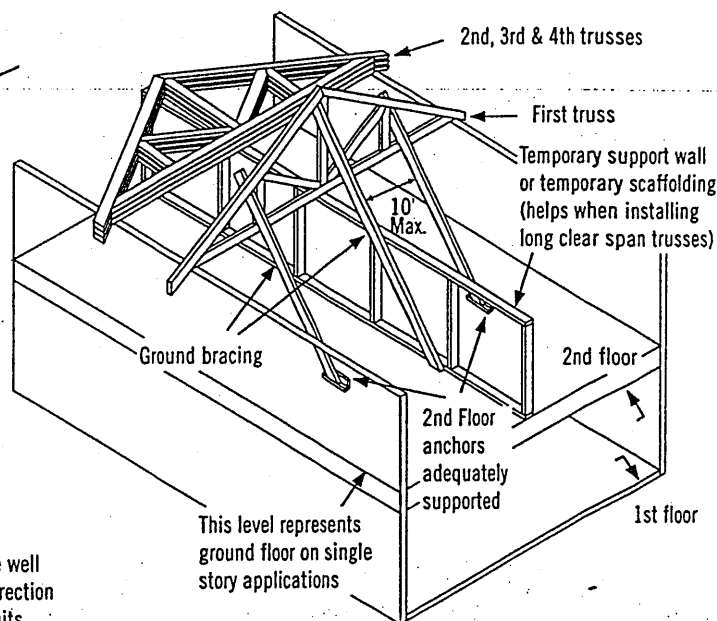
One satisfactory method ties the first unit of trusses off to a series of braces that are attached to a stake driven into the ground and securely anchored. The ground brace itself should be supported as shown below or it is apt to buckle. Additional ground braces in the opposite direction, inside the building, are also recommended.



Note: Locate ground braces for first truss directly in line with all rows of top chord continuous lateral bracing (either temporary or permanent).

Ground Brace - Interior

Another satisfactory method where height of building or ground conditions prohibit bracing from the exterior is to tie the first truss rigidly in place from the interior at the floor level, provided the floor is substantially completed and capable of supporting the ground bracing forces. Securely fasten the first truss to the middle of the building. Brace the bracing similar to exterior ground bracing shown at left. Set trusses from the middle toward the end of the building. Properly cross-brace the first set of trusses before removing floor braces and setting remaining trusses.

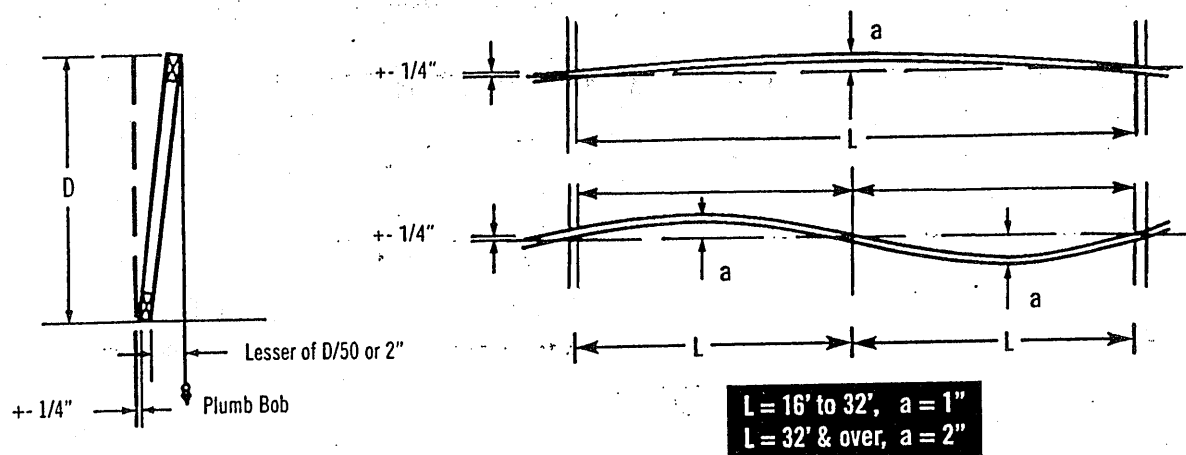


Inadequate size of bracing material or inadequate fastening is a major cause of erection dominoing.

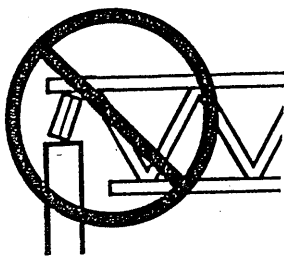
5 Erection Tolerance

Complying with erection tolerances is critical to achieving an acceptable roof or floor line, and to accomplishing effective bracing. Setting trusses within tolerance the first time will prevent the need for the hazardous practice of respacing or adjusting trusses when roof sheathing or roof purlins are installed. Trusses leaning or bowing can cause nails to miss the top chords when sheathing is applied, and create cumulative stresses on the bracing, which is a frequent cause of dominoing.

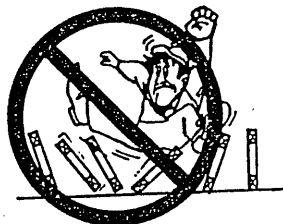
When sheathing, make sure nails are driven into the top chord of the trusses.



6 Bracing



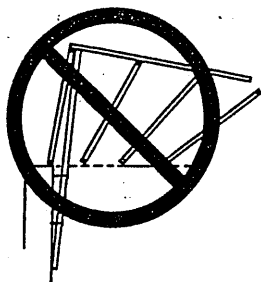
Do not install trusses on temporarily connected supports



Do not walk on unbraced trusses



Do not walk on trusses or gable ends lying flat

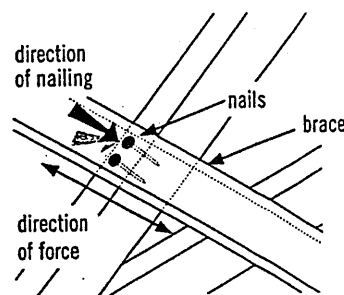


Nails in withdrawal (parallel to force)

All anchors, hangers, tie-downs, seats, bearing ledgers, etc., that are part of the supporting structure shall be accurately and properly placed and permanently attached before truss installation begins. No trusses shall ever be installed on anchors or ties that have temporary connections to the supporting structure.

Nailing scabs to the end of the building to brace the first truss is not recommended.

All nailing of bracing should be done so that nails are driven perpendicular to the direction of force, as shown at right.



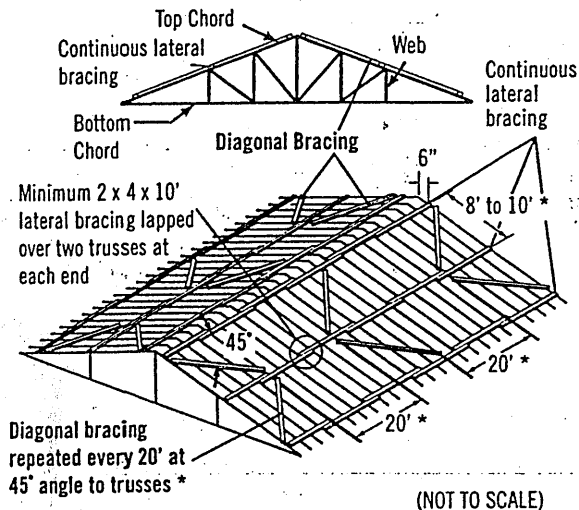
Well nailed (perpendicular to force)

7 Bracing Requirements for 3 Planes of Roof

Temporary erection bracing must be applied to three planes of the roof system to ensure stability: Plane 1) Top Chord (sheathing), Plane 2) Bottom Chord (ceiling plane), and Plane 3) Web Member plane or vertical plane perpendicular to trusses.

1) Top Chord Plane

Most important to the builder or erection contractor is bracing in the plane of the top chord. Truss top chords are susceptible to lateral buckling before they are braced or sheathed.

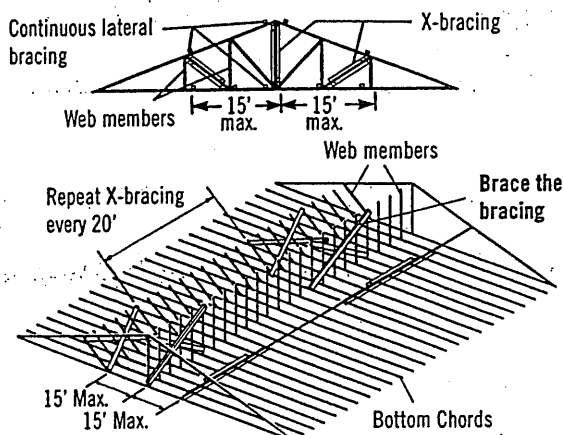


Exact spacing between trusses should be maintained as bracing is installed to avoid the hazardous practice of removing bracing to adjust spacing. This act of "adjusting spacing" can cause trusses to topple if connections are removed at the wrong time.

3) Web Member Plane

"X" bracing, as shown, is critical in preventing trusses from leaning or dominoing. Repeat as shown to create a succession of rigid units.

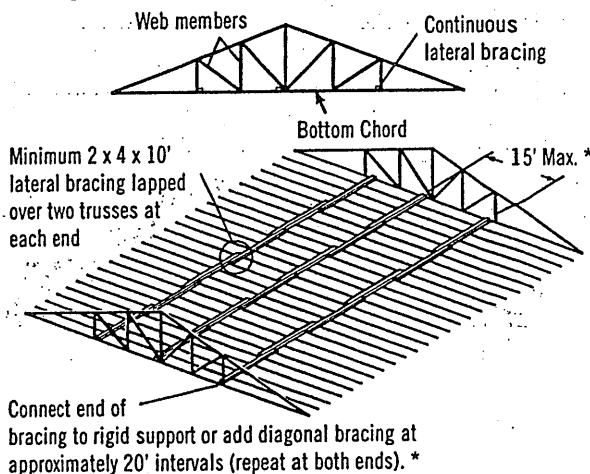
X-bracing should be installed on vertical web members wherever possible, at or near lateral bracing. Plywood or OSB may be substituted for X-bracing.



Note: Top chords and some web members are not shown, in order to make drawings more readable.

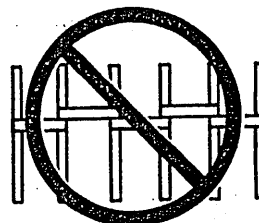
2) Bottom Chord Plane

In order to hold proper spacing on the bottom chord, temporary bracing is recommended on the top of the bottom chord.

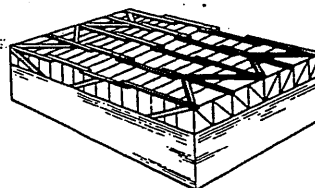


* Long spans, heavy loads or other spacing configurations may require closer spacing between lateral bracing and closer intervals between diagonals. Consult the building designer or HIB and DSB (Recommended Design Specification for Temporary Bracing of Metal-Plate Connected Wood Trusses) for details.

Diagonal or cross-bracing is very important!



Do not use short blocks to brace individual trusses without a specific bracing plan detailing their use

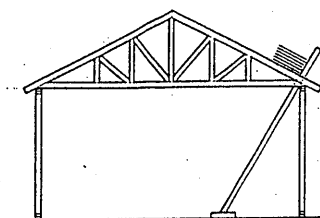
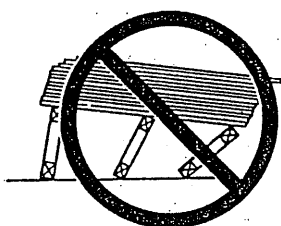


Bracing requirements using the same principles apply to parallel chord trusses

8 Stacking Materials

Do not proceed with building completion until all bracing is securely and properly in place

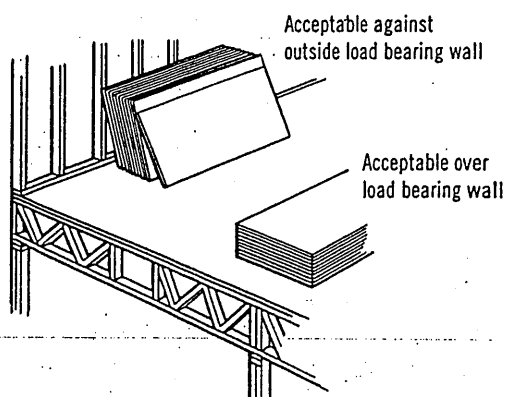
Never stack materials on unbraced or inadequately braced trusses



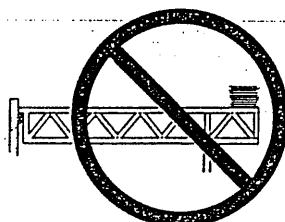
Platform must be rigidly braced

Proper distribution of construction materials is a must during construction.

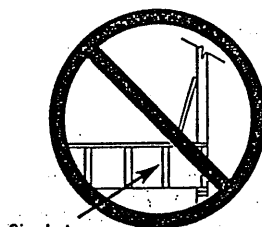
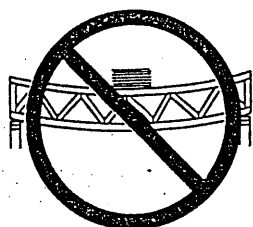
Never stack materials near a peak



Never stack materials on the cantilever of a truss

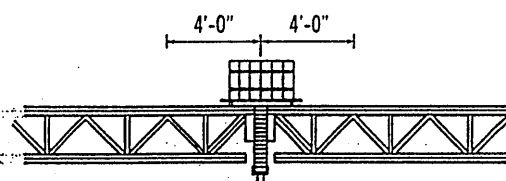


Always stack materials over two or more trusses.



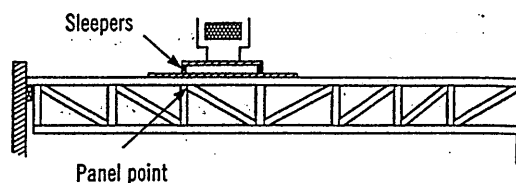
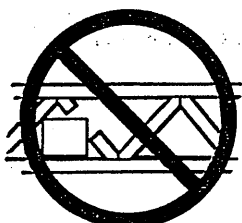
Single truss

Never overload small groups or single trusses. Position load over as many trusses as possible.



Roofing and mechanical contractors are cautioned to stack materials only along outside supporting members or directly over inside supporting members. Trusses are not designed for dynamic loads (i.e., moving vehicles). Extreme care should be taken when loading and stacking construction materials (rolled roofing, mechanical equipment, etc.) on the roof or floor system.

Never cut any structural member of a truss.



Sleepers

Panel point

Sleepers for mechanical equipment should be located at panel points (joints) or over main supporting members, and only on trusses that have been designed for such loads.

Caution Notes

Errors in building lines and/or dimensions, or errors by others shall be corrected by the contractor or responsible construction trade subcontractor or supplier before erection of trusses begins.

Cutting of nonstructural overhangs is considered a part of normal erection and shall be done by the builder or erection contractor.

Any field modification that involves the cutting, drilling, or relocation of any structural truss member or connector plate shall not be done without the approval of the truss manufacturer or a licensed design professional.

The methods and procedures outlined are intended to ensure that the overall construction techniques employed will put floor and roof trusses safely in place in a completed structure. These recommendations for bracing wood trusses originate from the collective experience of leading technical personnel in the wood truss industry, but must, due to the nature of responsibilities involved, be presented only as a guide for use by a qualified building designer, builder, or erection contractor. Thus, the Wood Truss Council of America expressly disclaims any responsibility for damages arising from the use, application, or reliance on the recommendations and information contained herein.

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