



PL 80980

Job Track: 40297
Layout ID: 253446
Plan Log: 79711

Builder / Location:
GOLD PARK / KLEINBURG
Project: HUNTINGTON & NASHVILLE
Date: 5/28/2015 Designer: chryle

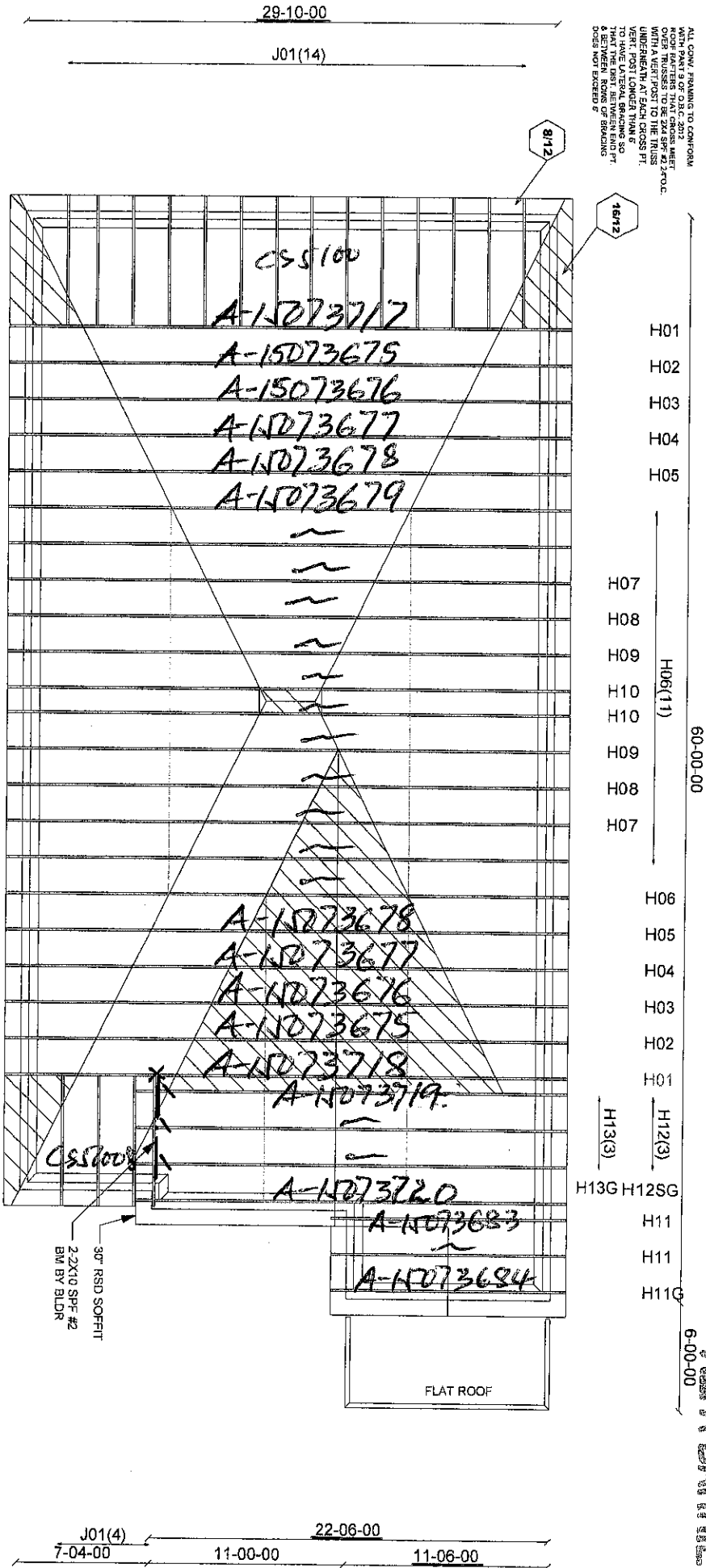
Model / Elevation:
38-6 / A
STD ORCPT2ND FLR
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Mitek Ver 7.5.0



12" B/C EXT.
BELL CURVE BY OTHERS
12" x 6" FASCIA - FM
ASPHALT SHINGLES
2" x 6" BRG/BRCK
PIGGYBACK TRS
PURLINS BY OTHERS

Piggyback
(A-15073680
A-15073681
A-15073682
A-15073721
A-15073722)



ALPA-BARRE



Job Track: 40297
Layout ID: 253447
Plan Log: 79711

Builder / Location:
GOLD PARK / KLEINBURG

Project: **HUNTINGTON & NASHVILLE**

Date: 5/28/2015	Designer: charlie
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Model / Elevation:
38-6 / A OPT TRAY

Milek Ver: 7.5.0

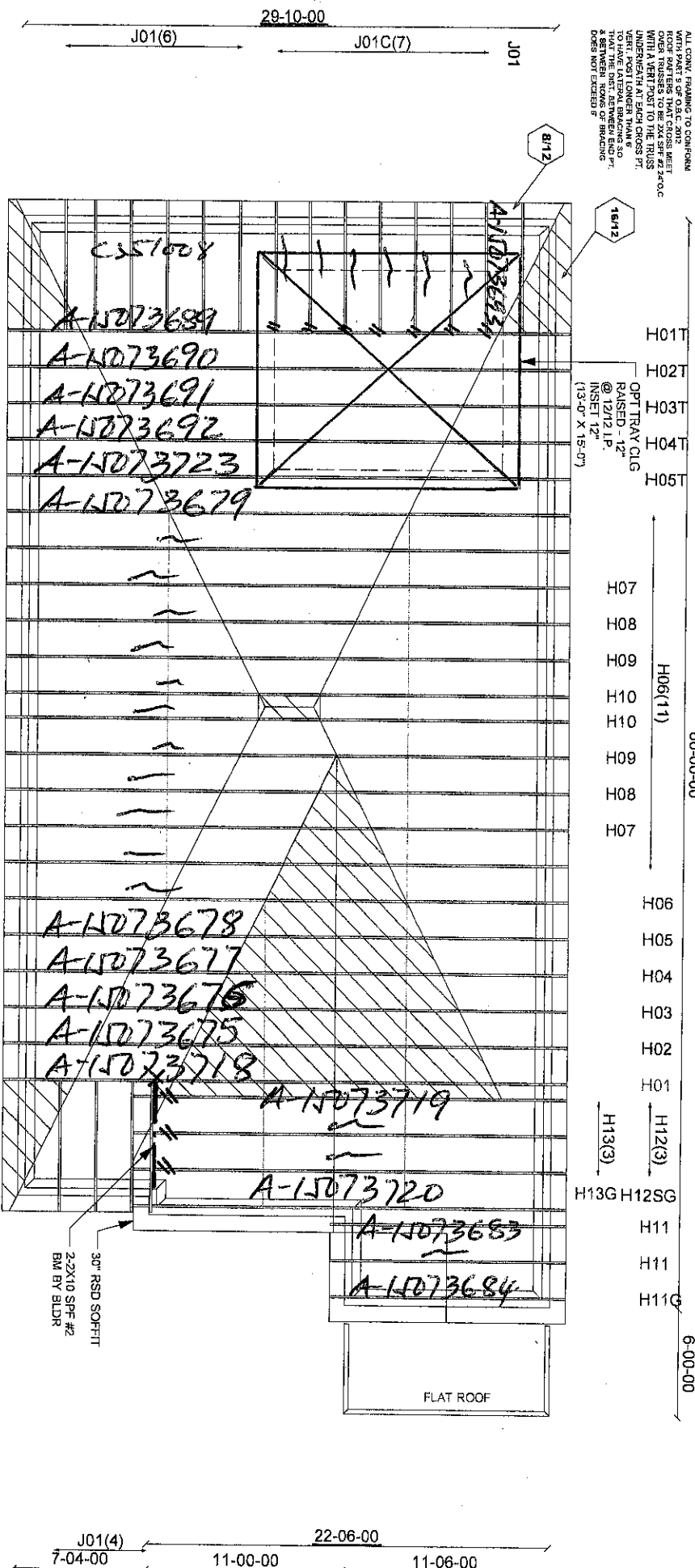


CONVENTIONAL
FRAMING BY
OTHERS

12" B/C EXT.
BELL CURVE BY OTHERS
(2" x 6" FASCIA) - FM
ASPHALT SHINGLES
2" X 6" BRG/BRICK
*PIGGYBACK TRS
PURLINS BY OTHERS

Piggly back

A-1507 3680
A-1507 3681
A-1507 3682
A-1507 3721
A-1507 3722



ALFA ROMEO

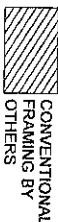


PL 80980

Job Track: 40297
Layout ID: 253448
Plan Log: 79711

Builder / Location:
GOLD PARK / KLEINBURG
Project: **HUNTINGTON & NASHVILLE**
Date: 5/28/2015 Designer: chenyle

Model / Elevation:
38-6 / A OPT 2ND W/TRAY



Mark Ver 7.5.0

12" B/C EXT.
BELL CURVE BY OTHERS
(2" x 6" FASCIA) - FM
ASPHALT SHINGLES
2" x 6" BRG/BRICK
PIGGYBACK TRS
FURLINS BY OTHERS

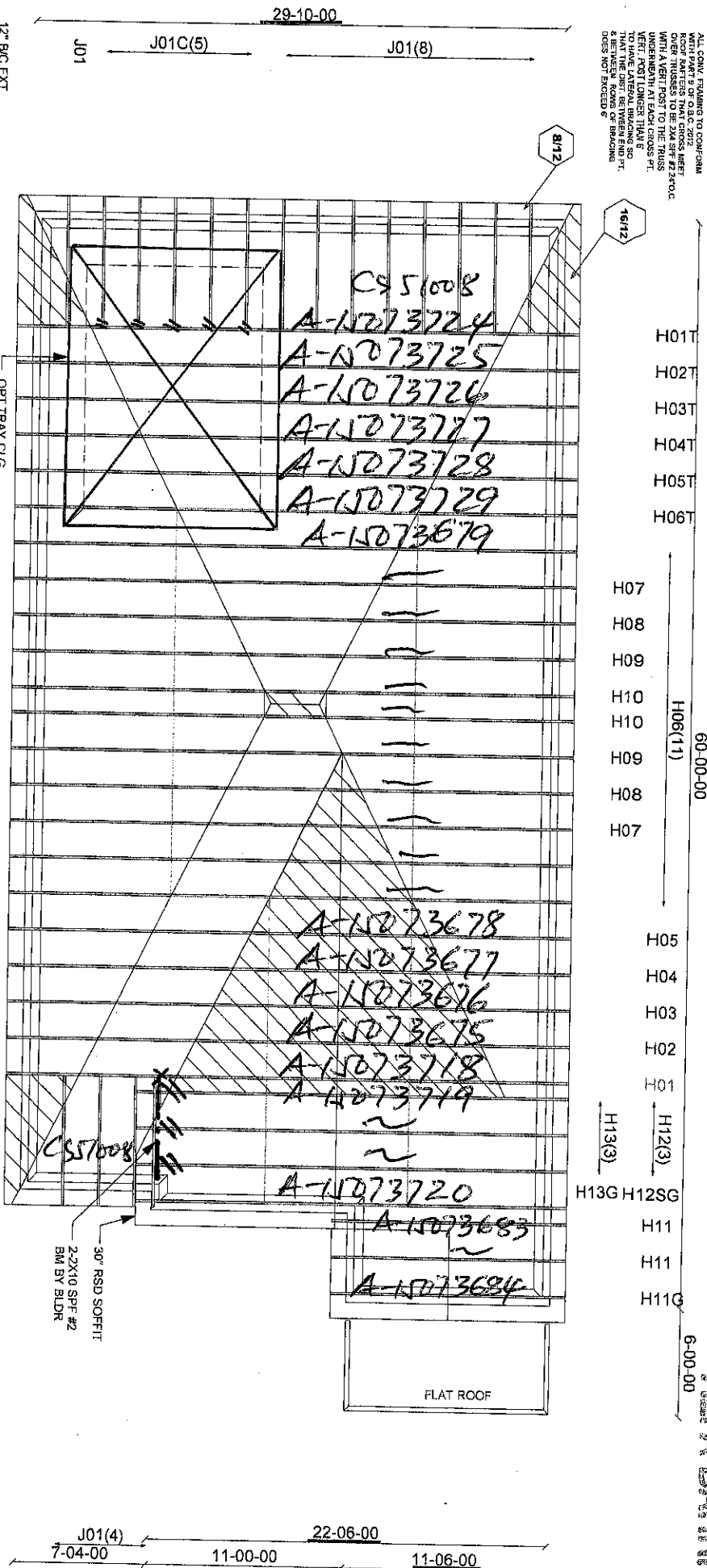
Piggyback

A-15073680
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A-15073722

54-01-00

1-00-00 4-11-00 6-00-00

HANGERS
// LUS24
X IHUS26-2



ALL CONN. FRAMING TO CONFORM WITH PART 9 OF O.A.C. 2012. ALL TRUSSES TO BE 2X4 SPT #2 2X6 C WITH A VERT POST TO THE TRUSS UNDERNEATH AT EACH CROSS PT. VERT POST LONGER THAN 8' SHALL BE 2X6 SPT #2. ALL TRUSSES TO BE 2X4 SPT #2 2X6 C WITH A VERT POST TO THE TRUSS UNDERNEATH AT EACH CROSS PT. ALL TRUSSES TO BE 2X4 SPT #2 2X6 C WITH A VERT POST TO THE TRUSS UNDERNEATH AT EACH CROSS PT. ALL TRUSSES TO BE 2X4 SPT #2 2X6 C WITH A VERT POST TO THE TRUSS UNDERNEATH AT EACH CROSS PT.

Mitek Ver. 7.5.0

ALL CONN. FRAMING TO CONFORM WITH THE FOLLOWING: ALL JOIST ROOF TRUSSES TO BE 24' SPACED AT 24' O.C. OVER TRUSSES TO BE 24' SPACED AT 24' O.C. UNDERNATH AT EACH TRUSS. VERT POST LONGER THAN 6' TO HAVE LATERAL BRACING SO THAT THE DIST. BETWEEN END PT. DOES NOT EXCEED 6' BRACING.

12" FIN. OH
RSD HEEL - 10" DROP
(2" x 6" FASCOA) - FM
ASPHALT SHINGLES
2" x 6" BRICK
PIGGYBACK TRS
PURLINS BY OTHERS



PL 80980

Job Track 40297
Layout ID: 253450
Plan Log: 79711

Builder / Location: GOLD PARK / KLEINBURG
Project: HUNTINGTON & NASHVILLE
Date: 4/24/2015 Designer: cheryle

Model / Elevation: 38-6 / B OPT TRAY
THESE DRAWINGS CONSTITUTE THE PROPERTY OF ALPHA 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 ALPHA ROOF TRUSSES INC. IF UTILIZED FOR ANY OTHER PURPOSE.

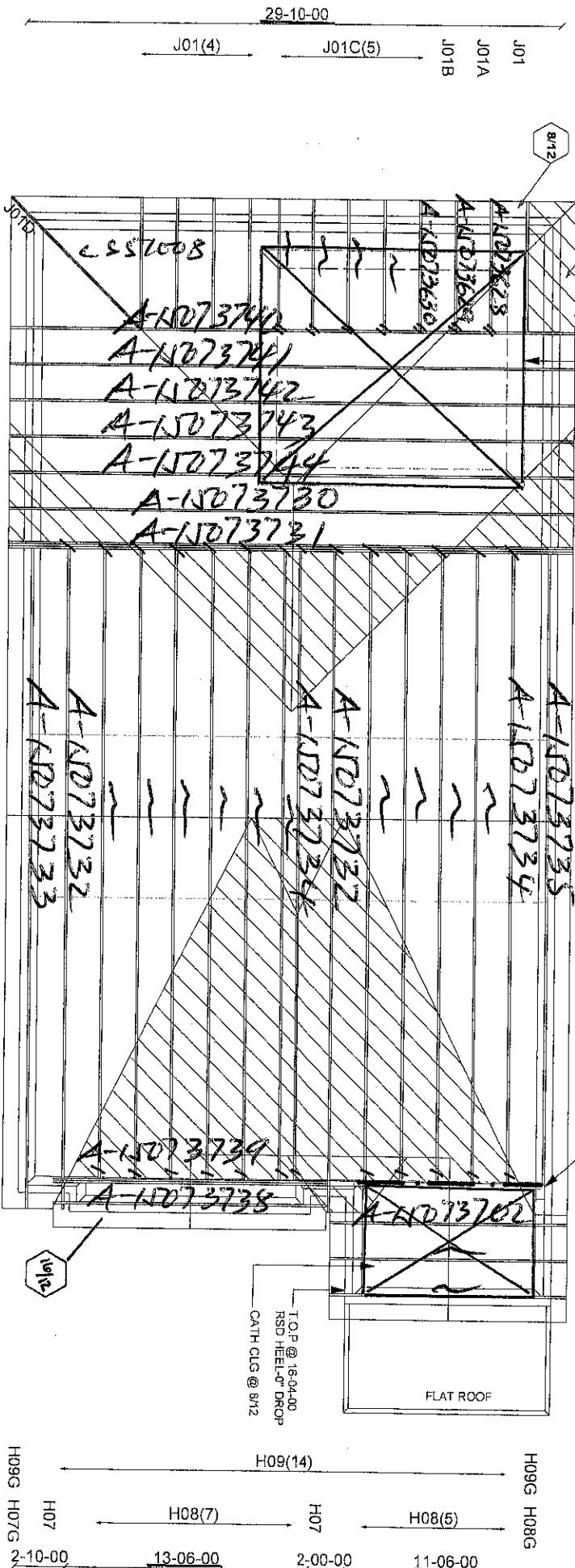


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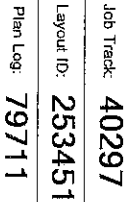
Piggyback (A-15073736)
(A-15073737)
54-01-00

H11A
H11
1-00-00 4-11-00 6-00-00

HANGERS
// LUS24
/ LUS26DS



Alpha-Drafting



PL 80980

ALL CONV. FRAMING TO CONFORM WITH PART 9 OF O.B.C. 2012
ROOF RAFTERS THAT CROSS MEET OVER TRUSSES TO BE 2X4 SIPS @ 24" O.C. WITH A VERT. POST TO THE TRUSS UNDERNEATH AT EACH CROSS PT. VERT. POST LONGER THAN 6' TO HAVE LATERAL BRACING SO THAT THE DIST. BETWEEN END PT. & BETWEEN ROWS OF BRACING DOES NOT EXCEED 6'

12-06-00 (cont'd)

H01T	
H02T	
H03T	
H04T	
H05T	
H06T	
H06A	

60-00-09

41-07-00~~CONFIRM~~

JULY 7/15

5-11-00

6-00-00

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2 PLY 10"
LVL BM
L= 10-08-00

FLAT ROOF

-T.O.P @ 16-04-00
RSD HEEL-0" DROP
-CATH CLG @ 8/12

Diagram illustrating the relationships between four sets of data (H09G, H07G, H09G, H08G) and their corresponding dates (2-10-00, 13-06-00, 2-00-00, 11-06-00).

The diagram shows four sets of data arranged in a grid:

- Top-left: H09G
- Top-right: H09G
- Bottom-left: H07G
- Bottom-right: H08G

Connections and associated dates:

- Horizontal connection between H09G (left) and H09G (right) is labeled H09(14).
- Horizontal connection between H07G (left) and H08G (right) is labeled H08(7).
- Horizontal connection between H09G (right) and H08G (right) is labeled H08(5).

The dates are positioned below the connections:

- 2-10-00 is below the H09(14) connection.
- 13-06-00 is below the H08(7) connection.
- 2-00-00 is below the H08(5) connection.
- 11-06-00 is below the H08(5) connection.

12" FIN. OH.
RSD, HEEL - 0" DROP
(2" x 6" FASCIA) - FM
ASPHALT SHINGLES
2" X 6" BRG BRICK
PIGGYBACK TRS
PURLINS BY OTHERS

OPT TRAY CLG
RAISED - 12"
@ 12/12 I.P.
INSET 12"
(15'-6" x 11'-10")

Pigglyback
54-01-00
(A-15073736)
A-15073737

1-00-00 4-11-00 H11A
H11

HANGERS
// LJS24
/ LJS26DS



CONVENTIONAL
FRAMING BY
OTHERS

Mitek Ver: 7.5.0

Builder / Location:
GOLD PARK / KLEINBURG

Model / Elevation:
38-6

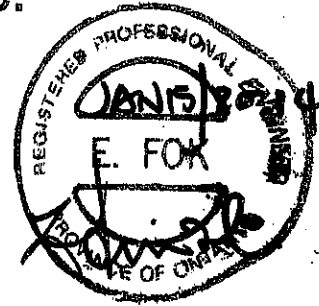
/B OPT 2ND W/TRAY

Project: HUNTINGTON & NASHVILLE	
Date: 4/24/2015	Designer: cheryle

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Stracon Engineering Inc.

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



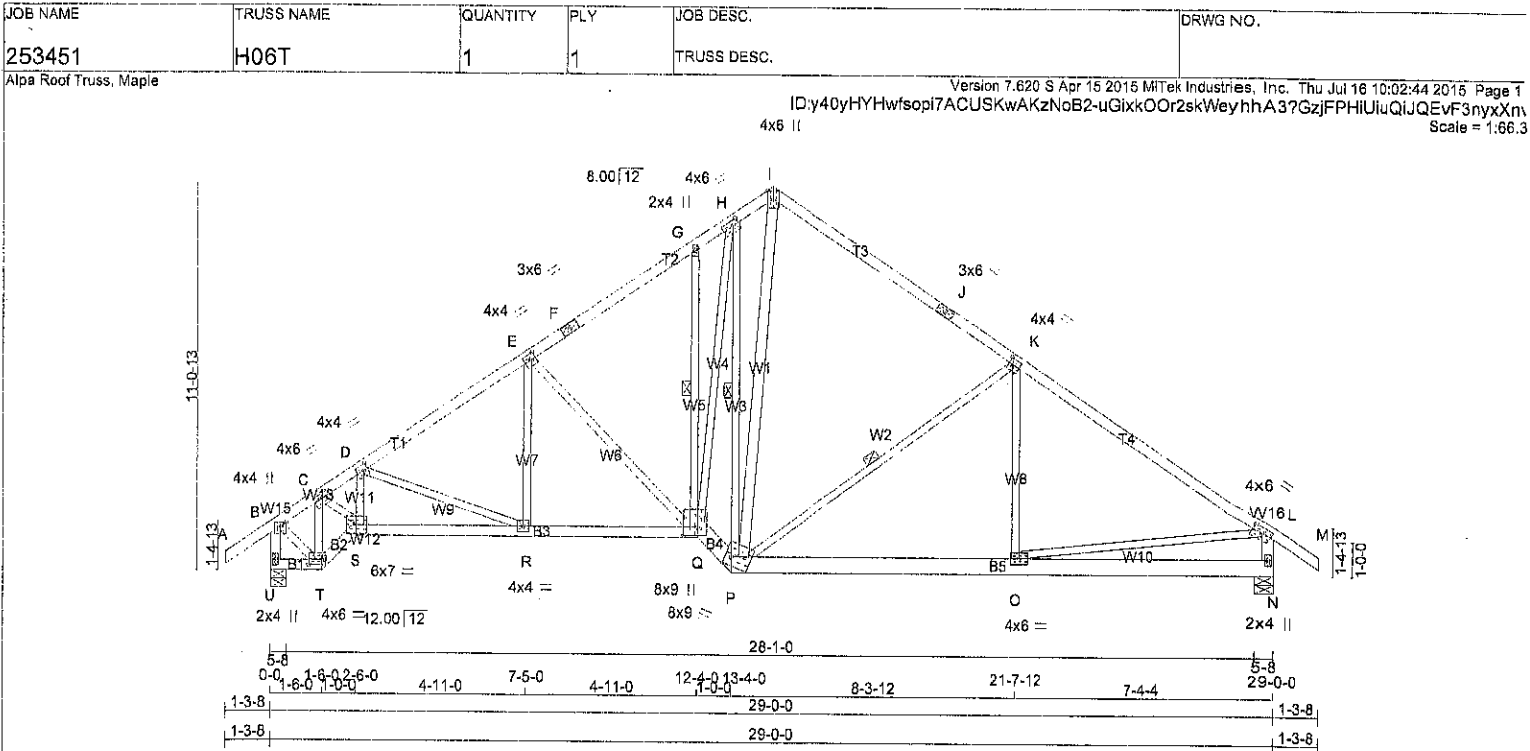
RESPONSIBILITIES

1. Stracon Engineering Inc. is responsible for the design of trusses as individual components.
2. It is the responsibility of others to ascertain that the design loads utilized on this drawing meet or exceed the actual dead load imposed by the structure and the live load imposed by the local building code or the authorities with jurisdictions.
3. All dimensions are to be verified by owner contractor, architect or other authority before manufacture.
4. Stracon Engineering Inc. bears no responsibility for the erection of the trusses. Persons erecting trusses are cautioned to seek professional advice regarding temporary and permanent bracing system. Bracing shown on Stracon Engineering Inc. drawings is specified for the truss as a component only and forms an integral part of the truss design.
5. It is the truss manufacture's responsibility to ensure that trusses are manufactured in conformance with Stracon Engineering Inc. specifications outlined below.

SPECIFICATIONS

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

January 15, 2014



LUMBER

N. L. G. A. RULES

CHORDS	SIZE	LUMBER	DESCR.
A - F	2x4	DRY	No.2
F - I	2x4	DRY	No.2
I - J	2x4	DRY	No.2
J - M	2x4	DRY	No.2
U - B	2x4	DRY	No.2
N - L	2x4	DRY	No.2
U - T	2x4	DRY	No.2
T - S	2x4	DRY	No.2
S - Q	2x4	DRY	No.2
Q - P	2x6	DRY	No.2
P - N	2x6	DRY	No.2
ALL WEBS EXCEPT	2x3	DRY	No.2
P - I	2x4	DRY	No.2

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT TYPE	PLATES	W	LEN	Y	X
B TMVW+p	MT20	4.0	4.0	1.25	1.75
C TMWW-t	MT20	4.0	6.0	1.50	3.00
D, E, K					
D TMWW-t	MT20	4.0	4.0	2.00	1.50
F TS-t	MT20	3.0	6.0		
G TMW+w	MT20	2.0	4.0		
H TMWW-t	MT20	4.0	8.0	1.75	2.00
I TTW+p	MT20	4.0	8.0	Edge	
J TS-t	MT20	3.0	6.0		
L TMVW-t	MT20	4.0	6.0	1.75	3.00
N BMV1+p	MT20	2.0	4.0		
O BMWW-t	MT20	4.0	6.0		
P BBWWW-m	MT20	8.0	9.0	3.00	2.25
Q BBWWW+p	MT20	8.0	9.0	2.75	4.75
R BMWW-t	MT20	4.0	4.0		
S BBWW-t	MT20	6.0	7.0		
T BBWW-t	MT20	4.0	6.0	1.75	4.50
U 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	UP
U	1374	0	1374	0
N	1370	0	1370	0

UNFACTORED REACTIONS

JT	1ST CASE COMBINED	MAX. SNOW	MIN. LIVE	COMPONENT REACTIONS	PERM. LIVE	WIND	DEAD	SOIL
U	966	667 / 0	0 / 0	0 / 0	0 / 0	0 / 0	298 / 0	0 / 0
N	963	665 / 0	0 / 0	0 / 0	0 / 0	0 / 0	298 / 0	0 / 0

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

BRACING
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.67FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00FT. OR RIGID CEILING DIRECTLY APPLIED.

1 LATERAL BRACE(S) REQUIRED AT 1/2 LENGTH OF G-Q, H-P, K-P.
END VERTICAL(S) MUST BE SHEATHED OR HAVE BRACES AS INDICATED IN THE MAX. UNBRACED LENGTH COLUMN OF THE TABLE BELOW

LOADING

TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	FACTORED HORZ. LOAD (LC1)	MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	FACTORED HORZ. LOAD (LC1)
FR-TO		FROM	TO	FR-TO		FROM	TO
A-B	0 / 27	-70.5	-70.5	0.09 (1)	10.00	T-C	-1309 / 0
B-C	-1039 / 0	-70.5	-70.5	0.08 (1)	6.09	C-S	0 / 1263
C-D	-1977 / 0	-70.5	-70.5	0.12 (1)	4.71	S-D	-32 / 42
D-E	-1711 / 0	-70.5	-70.5	0.22 (1)	4.90	D-R	-286 / 0
E-F	-1342 / 0	-70.5	-70.5	0.20 (1)	5.40	R-E	0 / 168
F-G	-1342 / 0	-70.5	-70.5	0.20 (1)	5.40	E-Q	-464 / 0
G-H	-1382 / 0	-70.5	-70.5	0.13 (1)	5.41	Q-G	-298 / 0
H-I	-1051 / 0	-70.5	-70.5	0.12 (1)	6.01	I-H	0 / 1573
I-J	-1029 / 0	-70.5	-70.5	0.53 (1)	5.46	H-J	-1315 / 0
J-K	-1029 / 0	-70.5	-70.5	0.53 (1)	5.46	K-I	0 / 846
K-L	-1600 / 0	-70.5	-70.5	0.59 (1)	4.87	L-K	-560 / 0
L-M	0 / 27	-70.5	-70.5	0.09 (1)	10.00	M-L	-19 / 131
U-B	-1361 / 0	0.0	0.0	0.14 (1)	6.96	B-T	0 / 1003
N-L	-1318 / 0	0.0	0.0	0.13 (1)	7.04	O-L	0 / 1288
U-T	0 / 0	-17.5	-17.5	0.01 (4)	10.00		
T-S	0 / 1065	-17.5	-17.5	0.17 (1)	10.00		
S-R	0 / 1700	-17.5	-17.5	0.33 (1)	10.00		
R-Q	0 / 1432	-17.5	-17.5	0.29 (1)	10.00		
Q-P	0 / 1264	-17.5	-17.5	0.15 (1)	10.00		
P-O	0 / 1276	-17.5	-17.5	0.22 (1)	10.00		
O-N	0 / 0	-17.5	-17.5	0.14 (4)	10.00		

DESIGN CRITERIA

SPECIFIED LOADS:
TOP CH. LL = 21.0 PSF
DL = 3.0 PSF
BOT CH. LL = 0.0 PSF
DL = 7.0 PSF
TOTAL LOAD = 31.0 PSF

SPACING = 24.0 IN. C/C

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

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

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 (0.97")
CALCULATED VERT. DEFL.(LL) = L/999 (0.11")
ALLOWABLE DEFL.(TL) = L/360 (0.97")
CALCULATED VERT. DEFL.(TL) = L/999 (0.20")

CSI: TC=0.59 (K-L:1), BC=0.33 (R-S:1), WB=0.94 (H-P:1), SSI=0.21 (K-L: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 = 0.50

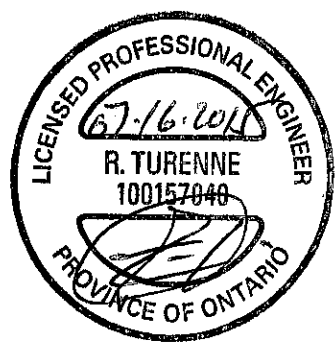
TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

NAIL VALUES
PLATE GRIP(DRY) SHEAR SECTION (PSI) (PLI) (PLI)
MAX MIN MAX MIN MAX MIN
MT20 618 354 1687 822 2284 1656

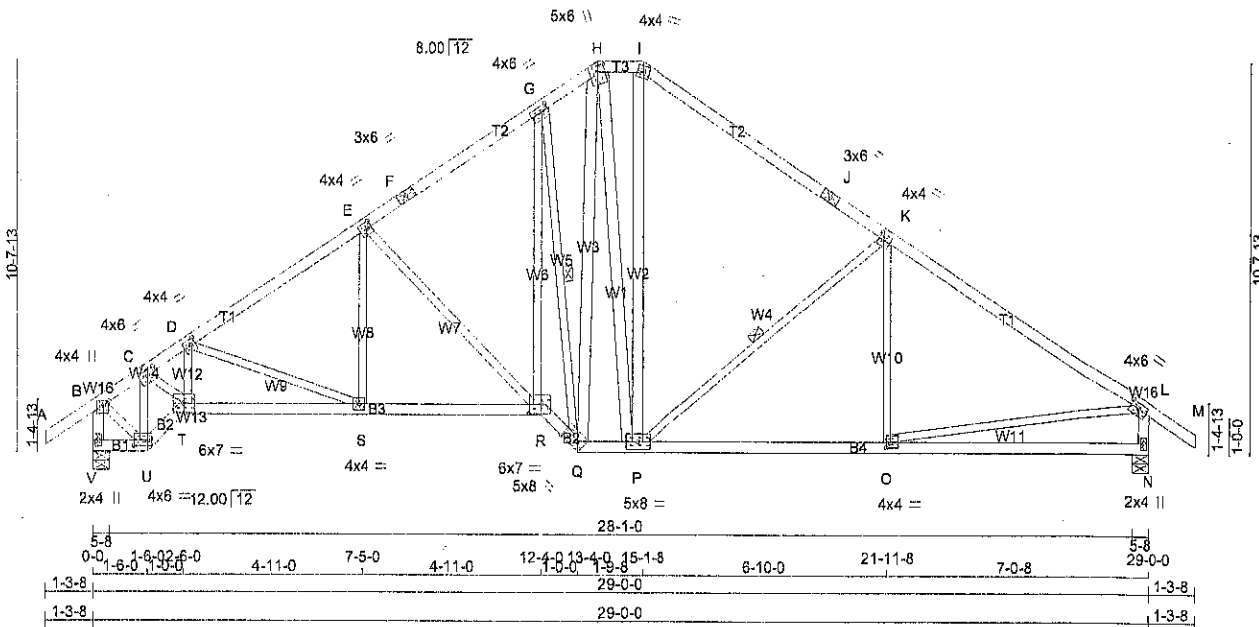
PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.88 (T) (INPUT = 0.90)
JSI METAL= 0.42 (L) (INPUT = 1.00)



A-10073750



LUMBER				
N. L. G. A. RULES				
CHORDS	SIZE	LUMBER	DESCR.	
A - F	2x4	DRY	No.2	SPF
F - H	2x4	DRY	No.2	SPF
H - I	2x4	DRY	No.2	SPF
I - J	2x4	DRY	No.2	SPF
J - M	2x4	DRY	No.2	SPF
V - B	2x4	DRY	No.2	SPF
N - L	2x4	DRY	No.2	SPF
V - U	2x4	DRY	No.2	SPF
U - T	2x4	DRY	No.2	SPF
T - R	2x4	DRY	No.2	SPF
R - Q	2x4	DRY	No.2	SPF
Q - N	2x4	DRY	No.2	SPF
ALL WEBS EXCEPT	2x3	DRY	No.2	SPF
Q - H	2x4	DRY	No.2	SPF
H - P	2x4	DRY	No.2	SPF
P - I	2x4	DRY	No.2	SPF

DRY: SEASONED LUMBER.

PLATES (table is in inches)				
JT TYPE	PLATES	W	LEN	Y X
B TMVW+p	MT20	4.0	4.0	1.25 1.75
C TMWW-t	MT20	4.0	8.0	1.50 3.00
D, E, K				
D TMVW-t	MT20	4.0	4.0	2.00 1.60
F TS-t	MT20	3.0	6.0	
G TMVW-t	MT20	4.0	6.0	1.75 2.25
H TTWW-m	MT20	5.0	6.0	2.00 2.25
I TTW-m	MT20	4.0	4.0	
J TS-t	MT20	3.0	6.0	
L TMVW-t	MT20	4.0	6.0	1.75 3.00
N BMV1+p	MT20	2.0	4.0	
O BMWW-t	MT20	4.0	4.0	1.75 1.50
P BMWW-t	MT20	5.0	8.0	
Q BBWW-h	MT20	5.0	8.0	2.25 5.50
R BBWW-t	MT20	6.0	7.0	3.00 4.00
S BMWW-t	MT20	4.0	4.0	
T BBWW-t	MT20	6.0	7.0	
U BBWW-t	MT20	4.0	6.0	1.75 4.50

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

BEARINGS							
FACTORED GROSS REACTION				MAXIMUM FACTORED GROSS REACTION			
JT	VERT	HORZ		DOWN	HORZ	UPLIFT	IN-SX
V	1374	0		1374	0	0	5-8
N	1370	0		1370	0	0	5-8

UNFACTORED REACTIONS							
JT	1ST LCASE	MAX./MIN.	COMPONENT REACTIONS				
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
V	966	667 / 0	0 / 0	0 / 0	0 / 0	298 / 0	0 / 0
N	963	665 / 0	0 / 0	0 / 0	0 / 0	298 / 0	0 / 0

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.71 FT. MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR RIGID CEILING DIRECTLY APPLIED.

1 LATERAL BRACE(S) REQUIRED AT 1/2 LENGTH OF G-Q, K-P. END VERTICAL(S) MUST BE SHEATHED OR HAVE BRACES AS INDICATED IN THE MAX. UNBRACED LENGTH COLUMN OF THE TABLE BELOW

LOADING

TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. UNBRACED LENGTH (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. UNBRACED LENGTH (LC)	
FR-TO				FR-TO			
A-B	0 / 27	-70.5	-70.5 0.09 (1)	U-C	-1309 / 0	0.20 (1)	
B-C	-1039 / 0	-70.5	-70.5 0.08 (1)	C-T	0 / 1262	0.28 (1)	
C-D	-1976 / 0	-70.5	-70.5 0.12 (1)	T-D	-31 / 42	0.01 (4)	
D-E	-1711 / 0	-70.5	-70.5 0.23 (1)	D-S	-285 / 0	0.13 (1)	
E-F	-1326 / 0	-70.5	-70.5 0.21 (1)	S-E	0 / 184	0.06 (4)	
F-G	-1326 / 0	-70.5	-70.5 0.21 (1)	E-R	-485 / 0	0.44 (1)	
G-H	-1130 / 0	-70.5	-70.5 0.07 (1)	R-G	0 / 1475	0.33 (1)	
H-I	-885 / 0	-70.5	-70.5 0.02 (1)	G-Q	-1615 / 0	0.99 (1)	
I-J	-1104 / 0	-70.5	-70.5 0.48 (1)	Q-H	0 / 533	0.09 (1)	
J-K	-1104 / 0	-70.5	-70.5 0.48 (1)	H-P	0 / 37	0.01 (4)	
K-L	-1482 / 0	-70.5	-70.5 0.53 (1)	P-I	0 / 371	0.06 (1)	
L-M	0 / 27	-70.5	-70.5 0.09 (1)	P-K	-481 / 0	0.27 (1)	
V-B	-1361 / 0	0.0	0.0 0.14 (1)	O-K	-56 / 97	0.03 (4)	
N-L	-1320 / 0	0.0	0.0 0.14 (1)	B-U	0 / 1004	0.23 (1)	
				O-L	0 / 1275	0.29 (1)	
V-U	0 / 0	-17.5	-17.5 0.01 (4)				
U-T	0 / 1066	-17.5	-17.5 0.17 (1)				
T-S	0 / 1699	-17.5	-17.5 0.33 (1)				
S-R	0 / 1433	-17.5	-17.5 0.29 (1)				
R-Q	0 / 1524	-17.5	-17.5 0.25 (1)				
Q-P	0 / 891	-17.5	-17.5 0.23 (1)				
P-O	0 / 1261	-17.5	-17.5 0.31 (4)				
O-N	0 / 0	-17.5	-17.5 0.21 (4)				

TOTAL WEIGHT = 164 lb

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH. LL = 21.0 PSF
DL = 3.0 PSF
BOT CH. LL = 0.0 PSF
DL = 7.0 PSF
TOTAL LOAD = 31.0 PSF

SPACING = 24.0 IN. C/C

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

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

THIS DESIGN COMPLIES WITH:
• PART 9 OF OBC 2012, BCBC 2012, ABC 2014
• CSA 088-09
• TPIC 2011

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 (0.97")
CALCULATED VERT. DEFL.(LL) = L/999 (0.12")
ALLOWABLE DEFL.(TL) = L/360 (0.97")
CALCULATED VERT. DEFL.(TL) = L/999 (0.21")

CSI: TC=0.53 (K-L:1), BC=0.33 (S-T:1), WB=0.99 (G-Q:1), SSI=0.20 (K-L: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 = 0.50

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

NAIL VALUES
PLATE GRIP(DRY) SHEAR SECTION (PSI) (PLI) (PLI)
MAX MIN MAX MIN MAX MIN
MT20 618 354 1667 822 2264 1656

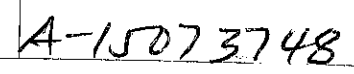
PLATE PLACEMENT TOL. = 0.250 inches

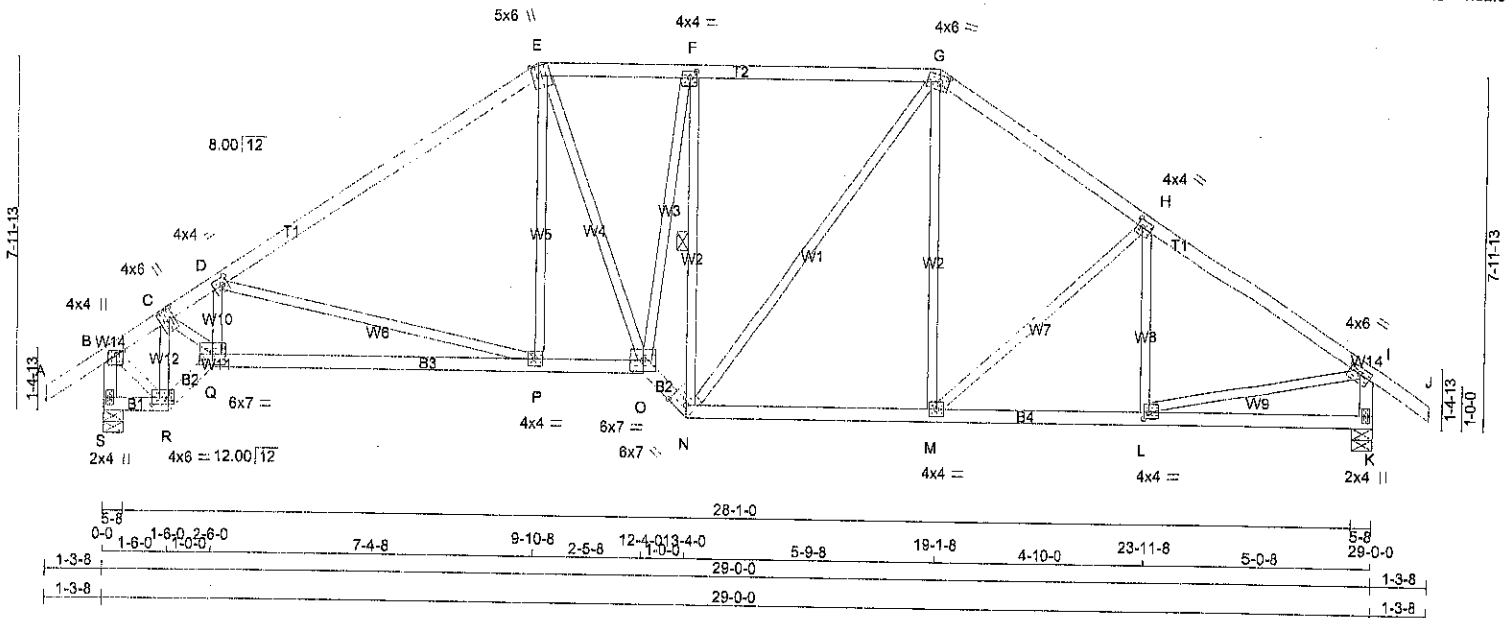
PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.88 (U) (INPUT = 0.90)
JSI METAL= 0.47 (O) (INPUT = 1.00)



A-15073749





LUMBER
N. L. G. A. RULES

CHORDS	SIZE	LUMBER	DESCR.
A - E	2x4	DRY No.2	SPF
E - G	2x4	DRY No.2	SPF
G - J	2x4	DRY No.2	SPF
S - B	2x4	DRY No.2	SPF
K - I	2x4	DRY No.2	SPF
S - R	2x4	DRY No.2	SPF
R - Q	2x4	DRY No.2	SPF
Q - O	2x4	DRY No.2	SPF
O - N	2x4	DRY No.2	SPF
N - 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	4.0	1.25	1.75
C	TMVW+t	MT20	4.0	6.0	3.00	1.50
D	TMVW-i	MT20	4.0	4.0	2.00	1.50
E	TTVW+m	MT20	5.0	6.0	Edge	1.75
F	TMVW-i	MT20	4.0	4.0	1.75	1.75
G	TTVW-m	MT20	4.0	6.0	1.75	2.50
H	TMVW-i	MT20	4.0	4.0	2.00	1.50
I	TMVW-i	MT20	4.0	6.0	1.75	3.00
K	BMV1+p	MT20	2.0	4.0		
L	BMVW-i	MT20	4.0	4.0	1.75	1.50
M	BMVW-i	MT20	4.0	4.0		
N	BBVW-h	MT20	6.0	7.0	2.25	4.50
O	BBVW-i	MT20	6.0	7.0		
P	BMVW-i	MT20	4.0	4.0		
Q	BBVW-i	MT20	6.0	7.0		
R	BBVW-i	MT20	4.0	6.0	1.75	4.50
S	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

JT	FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG IN-SX	REQD BRG IN-SX
	VERT	HORZ	DOWN	HORZ		
S	1374	0	1374	0	5-8	1-8
K	1370	0	1370	0	5-8	1-8

UNFACTORED REACTIONS

JT	1ST CASE		MAX./MIN. COMPONENT REACTIONS		WIND	DEAD	SOIL
	COMBINED	SNOW	LIVE	PERM.LIVE			
S	966	667 / 0	0 / 0	0 / 0	0 / 0	298 / 0	0 / 0
K	963	665 / 0	0 / 0	0 / 0	0 / 0	298 / 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 = 4.29FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00FT. OR RIGID CEILING DIRECTLY APPLIED.
1 LATERAL BRACE(S) REQUIRED AT 1/2 LENGTH OF F-N.
END VERTICAL(S) MUST BE SHEATHED OR HAVE BRACES AS INDICATED IN THE MAX. UNBRACED LENGTH COLUMN OF THE TABLE BELOW

LOADING										
TOTAL LOAD CASES: (4)										
CHORDS						WEBS				
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	LOAD LC1 (PLF)	MAX CSI (LC)	MAX UNBRAC LENGTH	MEMB.	MAX. FACTORED FORCE (LBS)	MAX CSI (LC)		
FR-TO		FROM	TO			FR-TO				
A-B	0 / 27	-70.5	-70.5	0.09 (1)	10.00	R-C	-1255 / 0	0.19 (1)		
B-C	-1024 / 0	-70.5	-70.5	0.14 (1)	6.04	C-Q	0 / 1512	0.34 (1)		
C-D	-1998 / 0	-70.5	-70.5	0.43 (1)	4.29	Q-D	-212 / 39	0.03 (1)		
D-E	-1529 / 0	-70.5	-70.5	0.54 (1)	4.72	D-P	-637 / 0	0.76 (1)		
E-F	-1358 / 0	-70.5	-70.5	0.23 (1)	5.32	P-E	0 / 266	0.06 (4)		
F-G	-1224 / 0	-70.5	-70.5	0.28 (1)	5.48	E-O	0 / 309	0.07 (1)		
G-H	-1327 / 0	-70.5	-70.5	0.24 (1)	5.37	O-F	0 / 935	0.21 (1)		
H-I	-1474 / 0	-70.5	-70.5	0.25 (1)	5.15	N-F	-1333 / 0	0.54 (1)		
I-J	0 / 27	-70.5	-70.5	0.09 (1)	10.00	N-G	0 / 228	0.05 (1)		
S-B	-1361 / 0	0.0	0.0	0.14 (1)	6.96	M-G	0 / 247	0.06 (1)		
K-I	-1331 / 0	0.0	0.0	0.14 (1)	7.02	M-H	-218 / 0	0.18 (1)		
						L-H	-179 / 18	0.06 (1)		
S-R	0 / 0	-17.5	-17.5	0.01 (4)	10.00	B-R	0 / 963	0.22 (1)		
R-Q	0 / 1023	-17.5	-17.5	0.17 (1)	10.00	L-I	0 / 1274	0.29 (1)		
Q-P	0 / 1866	-17.5	-17.5	0.42 (1)	10.00					
P-O	0 / 1251	-17.5	-17.5	0.33 (1)	10.00					
O-N	0 / 1705	-17.5	-17.5	0.28 (1)	10.00					
N-M	0 / 1086	-17.5	-17.5	0.25 (1)	10.00					
M-L	0 / 1245	-17.5	-17.5	0.27 (1)	10.00					
L-K	0 / 0	-17.5	-17.5	0.09 (4)	10.00					

DESIGN CRITERIA

SPECIFIED LOADS:
TOP CH. LL = 21.0 PSF
DL = 3.0 PSF
BOT CH. LL = 0.0 PSF
DL = 7.0 PSF
TOTAL LOAD = 31.0 PSF

SPACING = 24.0 IN./C

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

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

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

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 (0.97")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.08")
ALLOWABLE DEFL.(TL) = L/360 (0.97")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.19")

CSI: TC=0.54 (D-E:1), BC=0.42 (P-Q:1), WB=0.76 (D-P:1), SSI=0.30 (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 = 0.60

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

NAIL VALUES
PLATE GRIP(DRY) SHEAR SECTION (PSI) (PLI) (PLI)
MAX MIN MAX MIN MAX MIN
MT20 618 354 1667 822 2284 1666

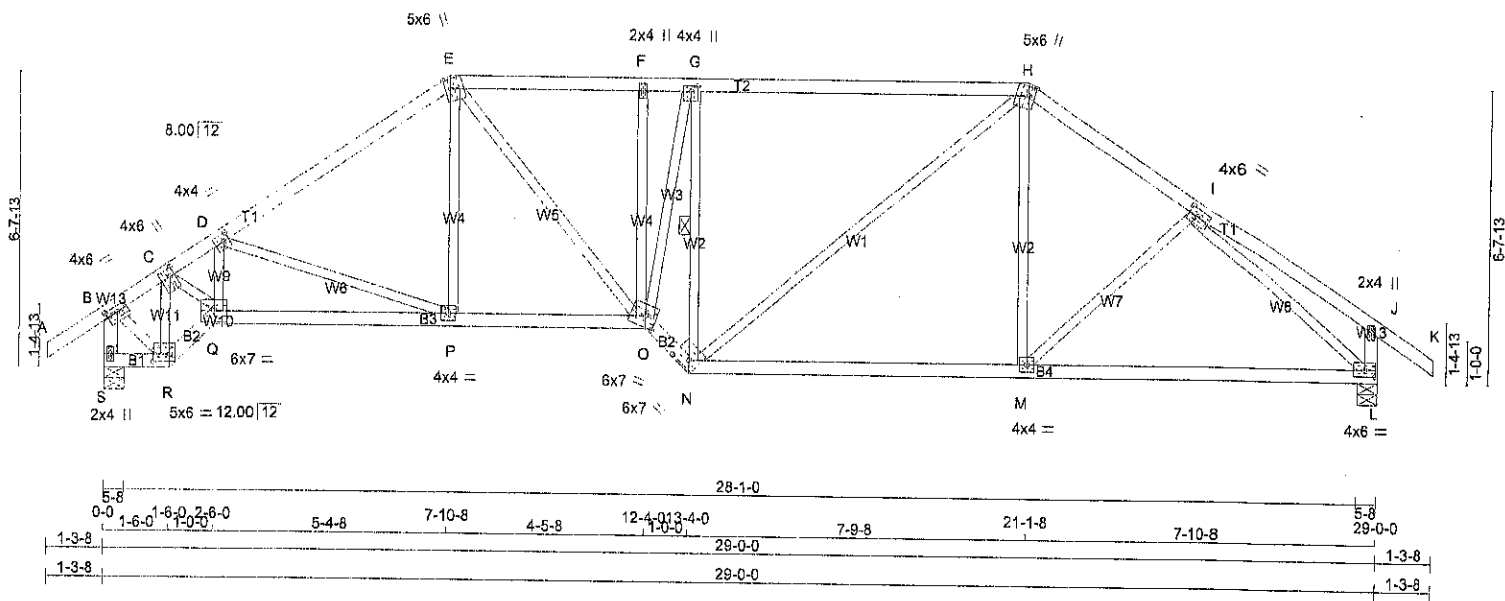
PLATE PLACEMENT TOL. = 0.250 Inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.90 (P) (INPUT = 0.90)
JSI METAL = 0.47 (L) (INPUT = 1.00)



A-15073747



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

A - E	2x4	DRY	No.2	SPF
E - H	2x4	DRY	No.2	SPF
H - K	2x4	DRY	No.2	SPF
S - B	2x4	DRY	No.2	SPF
L - J	2x4	DRY	No.2	SPF
S - R	2x4	DRY	No.2	SPF
R - Q	2x4	DRY	No.2	SPF
Q - O	2x4	DRY	No.2	SPF
O - N	2x4	DRY	No.2	SPF
N - L	2x4	DRY	No.2	SPF
ALL WEBS EXCEPT	2x3	DRY	No.2	SPF

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMVW-t	MT20	4.0	6.0	1.50	3.00
C	TMVW-t	MT20	4.0	6.0	2.25	1.25
D	TMVW-t	MT20	4.0	4.0	2.00	1.50
E	TTVW+m	MT20	5.0	6.0	2.50	1.50
F	TMVW-w	MT20	2.0	4.0		
G	TMVW-t	MT20	4.0	4.0	1.50	1.75
H	TTVW+m	MT20	5.0	6.0	2.50	1.50
I	TMVW-t	MT20	4.0	6.0	2.00	2.50
J	TMV+p	MT20	2.0	4.0		
L	BMVW-1-t	MT20	4.0	6.0	1.75	3.00
M	BMVW-1-t	MT20	4.0	4.0		
N	BBVW-h	MT20	6.0	7.0	2.00	4.25
O	BBVW-w-m	MT20	6.0	7.0	3.00	3.00
P	BMVW-1-t	MT20	4.0	4.0		
Q	BBVW-1	MT20	6.0	7.0		
R	BBVW-1	MT20	5.0	6.0	2.00	4.50
S	BMV1-p	MT20	2.0	4.0		

NOTES: (1)
 1) Lateral brace(s) shown shall be 1x4 for Part 9 design as per



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

BEARINGS

JT	FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG	REQD BRG
	VERT	HORZ	DOWN	HORZ		
S	1374	0	1374	0	5-8	1-8
L	1370	0	1370	0	5-8	1-8

UNFACTORED REACTIONS

JT	1ST LCASE		MAX./MIN. COMPONENT REACTIONS		WIND	DEAD	SOIL
	COMBINED	SNOW	LIVE	PERM.LIVE			
S	966	667 / 0	0 / 0	0 / 0	0 / 0	298 / 0	0 / 0
L	963	665 / 0	0 / 0	0 / 0	0 / 0	298 / 0	0 / 0

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

BRACING
 TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.49FT.
 MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00FT. OR RIGID CEILING DIRECTLY APPLIED.

1 LATERAL BRACE(S) REQUIRED AT 1/2 LENGTH OF G-N.
 END VERTICAL(S) MUST BE SHEATHED OR HAVE BRACES AS INDICATED IN THE MAX. UNBRACED LENGTH COLUMN OF THE TABLE BELOW

LOADING
 TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. FACTORED CSI (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. FACTORED CSI (LC)	
FR-TO		FROM TO		FR-TO			
A-B	0 / 27	-70.5 -70.5	0.09 (1)	R-C	-1281 / 0	0.20 (1)	
B-C	-1034 / 0	-70.5 -70.5	0.10 (1)	C-Q	0 / 1347	0.30 (1)	
C-D	-1984 / 0	-70.5 -70.5	0.23 (1)	Q-D	-94 / 39	0.01 (1)	
D-E	-1662 / 0	-70.5 -70.5	0.27 (1)	D-P	-412 / 0	0.23 (1)	
E-F	-1702 / 0	-70.5 -70.5	0.22 (1)	P-E	0 / 220	0.05 (4)	
F-G	-1704 / 0	-70.5 -70.5	0.49 (1)	E-O	0 / 516	0.12 (1)	
G-H	-1520 / 0	-70.5 -70.5	0.58 (1)	O-F	0 / 120	0.03 (1)	
H-I	-1424 / 0	-70.5 -70.5	0.15 (1)	F-G	0 / 1044	0.23 (1)	
I-J	0 / 17	-70.5 -70.5	0.16 (1)	G-H	-1711 / 0	0.49 (1)	
J-K	0 / 27	-70.5 -70.5	0.09 (1)	H-I	0 / 449	0.10 (1)	
S-B	-1381 / 0	0.0 0.0	0.14 (1)	I-J	0 / 175	0.05 (4)	
L-J	-205 / 0	0.0 0.0	0.02 (1)	J-K	-15 / 49	0.02 (4)	
				K-L	0 / 990	0.22 (1)	
S-R	0 / 0	-17.5 -17.5	0.01 (4)	L-L	-1620 / 0	0.77 (1)	
R-Q	0 / 1051	-17.5 -17.5	0.17 (1)				
Q-P	0 / 1756	-17.5 -17.5	0.35 (1)				
P-O	0 / 1370	-17.5 -17.5	0.28 (1)				
O-N	0 / 2111	-17.5 -17.5	0.34 (1)				
N-M	0 / 1172	-17.5 -17.5	0.41 (4)				
M-L	0 / 1180	-17.5 -17.5	0.40 (4)				

TOTAL WEIGHT = 130 lb [M/F]

DESIGN CRITERIA

SPECIFIED LOADS:
 TOP CH. LL = 21.0 PSF
 DL = 3.0 PSF
 BOT CH. LL = 0.0 PSF
 DL = 7.0 PSF
 TOTAL LOAD = 31.0 PSF

SPACING = 24.0 IN./C

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

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

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

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 (0.97")
 CALCULATED VERT. DEFL.(LL) = L/999 (0.10")
 ALLOWABLE DEFL.(TL)= L/360 (0.97")
 CALCULATED VERT. DEFL.(TL) = L/999 (0.20")

CSI: TC=0.58 (G-H:1), BC=0.41 (M-N:4), WB=0.77 (I-L:1), SS=0.28 (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 = 0.50

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

NAIL VALUES

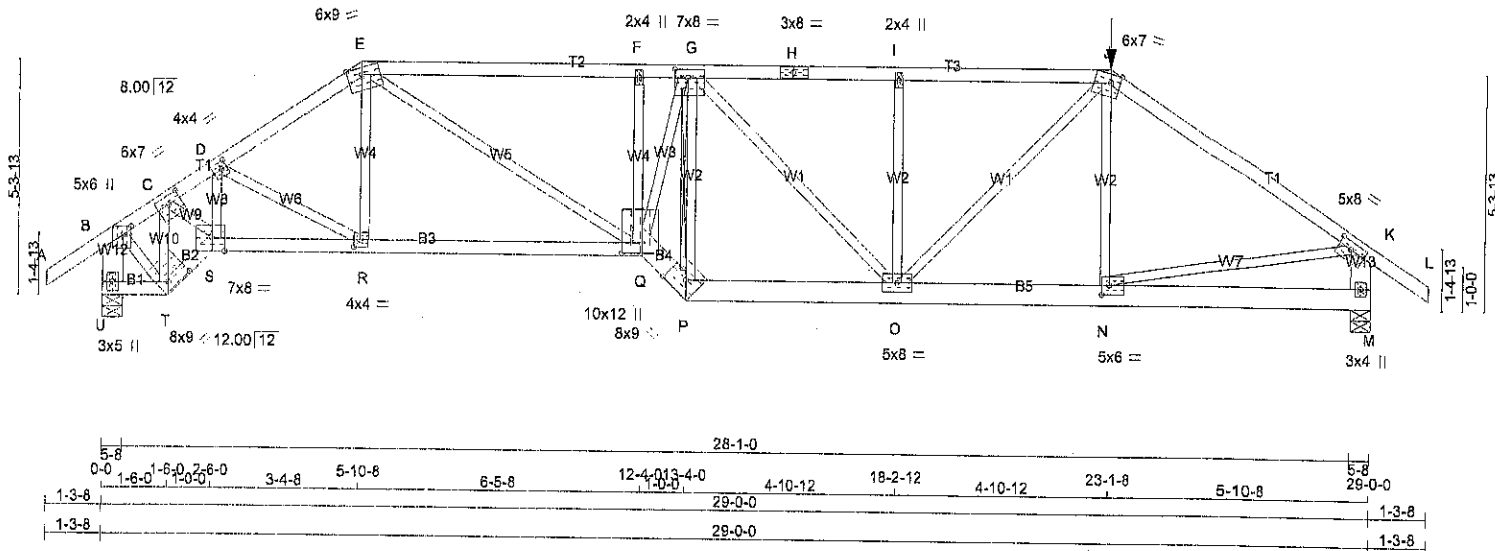
PLATE GRIP(DRY)	SHEAR (PSI)	SECTION (PLI)
MT20	618 354 1687 822 2284 1656	

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.80 (C) (INPUT = 0.90)
 JSI METAL= 0.40 (I) (INPUT = 1.00)

A-4073746



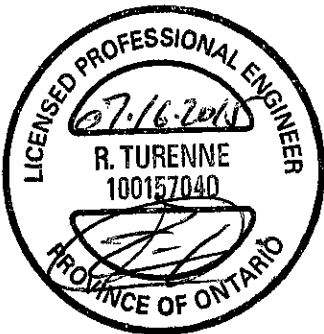
LUMBER			
N. L. G. A. RULES			
CHORDS	SIZE	LUMBER	DESC
A - E	2x4	No.2	SPF
E - H	2x4	DRY	SPF
H - J	2x4	1650F 1.5E	SPF
J - L	2x4	DRY	SPF
L - M	2x4	No.2	SPF
M - K	2x6	DRY	SPF
K - T	2x6	No.2	SPF
U - B	2x6	DRY	SPF
B - C	2x6	No.2	SPF
C - Q	2x4	DRY	SPF
Q - P	2x4	1650F 1.5E	SPF
P - M	2x6	DRY	SPF
M - N	2x6	No.2	SPF
N - O	2x6	No.2	SPF
O - S	2x4	DRY	SPF
S - Q	2x4	1650F 1.5E	SPF
Q - P	2x6	DRY	SPF
P - M	2x6	DRY	SPF
ALL WEBS	2x3	DRY	SPF
EXCEPT		No.2	SPF

DRY; SEASONED LUMBER.

PLATES (table is in inches)

J	T	TYPE	PLATES	W	LEN	Y	X
B	D	TMVW+p	MT20	5.0	6.0	2.25	2.25
C	D	TMVW-t	MT20	6.0	7.0	2.25	3.50
D	E	TMVW-t	MT20	4.0	4.0	2.00	1.50
E	F	TTWV-m	MT20	6.0	9.0	1.75	4.00
F	G	TMVW+w	MT20	2.0	4.0		
G	H	TMVWV-t	MT20	7.0	8.0	2.25	3.50
H	I	TS-t	MT20	3.0	8.0		
I	J	TMVW+w	MT20	2.0	4.0		
J	K	TTWV-m	MT20	6.0	7.0	Edge	2.50
K	M	TMVW-t	MT20	5.0	8.0	2.00	3.75
L	N	BMV1+p	MT20	3.0	4.0		
M	O	BMVW-t	MT20	5.0	6.0	2.50	2.00
N	P	BMVWV-t	MT20	5.0	8.0		
O	Q	BBW-h	MT20	8.0	9.0	3.75	5.00
P	R	BBWVW+p	MT20	10.0	12.0	2.75	5.50
Q	S	BMVW-t	MT20	4.0	4.0	2.00	1.75
R	T	BBWV-h	MT20	7.0	8.0	Edge	3.50
S	U	BBWV-h	MT20	8.0	9.0	2.00	6.25
T	V	BMV1+p	MT20	3.0	5.0		

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



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

BEARINGS

JT	FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION			INPUT BRG	REQRD BRG
	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX
U	2641	0	2641	0	0	5-8	3-1
M	2489	0	2489	0	0	5-8	2-11

UNFACTORED REACTIONS

1ST LCASE		MAX./MIN. COMPONENT REACTIONS					
JT	COMBINED	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
U	1858	1276 / 0	0 / 0	0 / 0	0 / 0	582 / 0	0 / 0
M	1754	1185 / 0	0 / 0	0 / 0	0 / 0	569 / 0	0 / 0

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.22FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00FT. OR RIGID CEILING DIRECTLY
APPLIED.

2x4 DRY SPF No.2 T-BRACE REQUIRED AT G-P

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				
MAX. FACTORED		FACTORED			MAX. FACTORED				
MEMB.	FORCE	VERT. LOAD	LC1	MAX	MAX	MEMB.	FORCE	MAX	
	(LBS)	(PLF)	CSI (LC)	UNBRAC	LENGTH		(LBS)	CSI (LC)	
FR-TO		FROM	TO			FR-TO			
A-B	0 / 27	-70.5	-70.5	0.10 (1)	10.00	T-C	-2699 / 0	0.45 (1)	
B-C	-2095 / 0	-138.7	-138.7	0.16 (1)	4.49	C-S	0 / 2413	0.60 (1)	
C-D	-3985 / 0	-138.7	-138.7	0.32 (1)	3.22	S-D	0 / 66	0.02 (4)	
D-E	-3869 / 0	-70.5	-70.5	0.33 (1)	3.39	D-R	-352 / 0	0.10 (1)	
E-F	-4645 / 0	-70.5	-70.5	0.68 (1)	3.28	R-E	0 / 769	0.19 (1)	
F-G	-4636 / 0	-138.7	-138.7	0.36 (1)	3.42	E-Q	0 / 1851	0.46 (1)	
G-H	-3575 / 0	-138.7	-138.7	0.56 (1)	3.64	Q-F	-320 / 0	0.09 (1)	
H-I	-3575 / 0	-138.7	-138.7	0.56 (1)	3.64	Q-G	0 / 3380	0.84 (1)	
I-J	-3574 / 0	-138.7	-138.7	0.56 (1)	3.64	P-G	-3421 / 0	0.77 (1)	
J-K	-3019 / 0	-70.5	-70.5	0.87 (1)	3.24	G-O	-319 / 0	0.26 (1)	
K-L	0 / 27	-70.5	-70.5	0.10 (1)	10.00	O-I	-756 / 0	0.31 (1)	
U-B	-2615 / 0	0.0	0.0	0.19 (1)	6.39	O-J	0 / 1517	0.38 (1)	
M-K	-2401 / 0	0.0	0.0	0.17 (1)	6.81	N-J	-189 / 109	0.08 (1)	
						B-T	0 / 2068	0.51 (1)	
						N-K	0 / 2544	0.63 (1)	
U-T	0 / 0	-34.5	-34.5	0.02 (4)	10.00				
T-S	0 / 2196	-34.5	-34.5	0.39 (1)	10.00				
S-R	0 / 3362	-102.7	-102.7	0.91 (1)	10.00				
R-Q	0 / 3062	-102.7	-102.7	0.87 (1)	10.00				
Q-P	0 / 5157	-34.5	-34.5	0.67 (1)	10.00				
P-O	0 / 3797	-34.5	-34.5	0.58 (1)	10.00				
O-N	0 / 2505	-34.5	-34.5	0.39 (1)	10.00				
N-M	0 / 0	-34.5	-34.5	0.14 (4)	10.00				

FACTORED CONCENTRATED LOADS (LBS)

LOC.	LC1	MAX-	MAX+	FACE	DIR.	TYPE
23-1-8	-302	-302	---	FRONT	VERT	TOTAL

TOTAL WEIGHT = 138 lb

DESIGN CRITERIA

SPECIFIED LOADS:				
TOP CH.	LL	=	21.0	PSF
	DL	=	3.0	PSF
BOT CH.	LL	=	0.0	PSF
	DL	=	7.0	PSF
TOTAL LOAD		=	31.0	PSF

SPACING = 24.0 IN. C/C

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

GIRDER TYPE: CPrimeHlp
SIDE SETBACK = 0-0
END SETBACK = 5-10-8
END WALL WIDTH = 0-0
CORNER FRAMING TYPE: CONVENTIONAL
END JACK TYPE: CONVENTIONAL
APPLIED TO FRONT SIDE
-ADD'L LOADS BASED ON 55 % OF GSL.
LOADS APPLIED TO FIRST 2-6-0 OF SPAN
MEASURED FROM THE LEFT.

GIRDER TYPE: CStdGirder
START DISTANCE = 2-6-0
START SPAN CARRIED = 5-10-8
END DISTANCE = 12-4-0
END SPAN CARRIED = 5-10-8
END WALL WIDTH = 0-0
APPLIED TO FRONT SIDE OF BOTTOM CHORD.
- ADD'L LOADS BASED ON 55 % OF GSL.

GIRDER TYPE: CPrimeHip
SIDE SETBACK = 5-10-8
END SETBACK = 5-10-8
END WALL WIDTH = 0-0
CORNER FRAMING TYPE: CONVENTIONAL
END JACK TYPE: CONVENTIONAL
APPLIED TO FRONT SIDE
- ADDTL. LOADS BASED ON 55 % OF GSL.
LOADS APPLIED TO FIRST 16-8-0 OF SPAN
MEASURED FROM THE RIGHT.

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

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

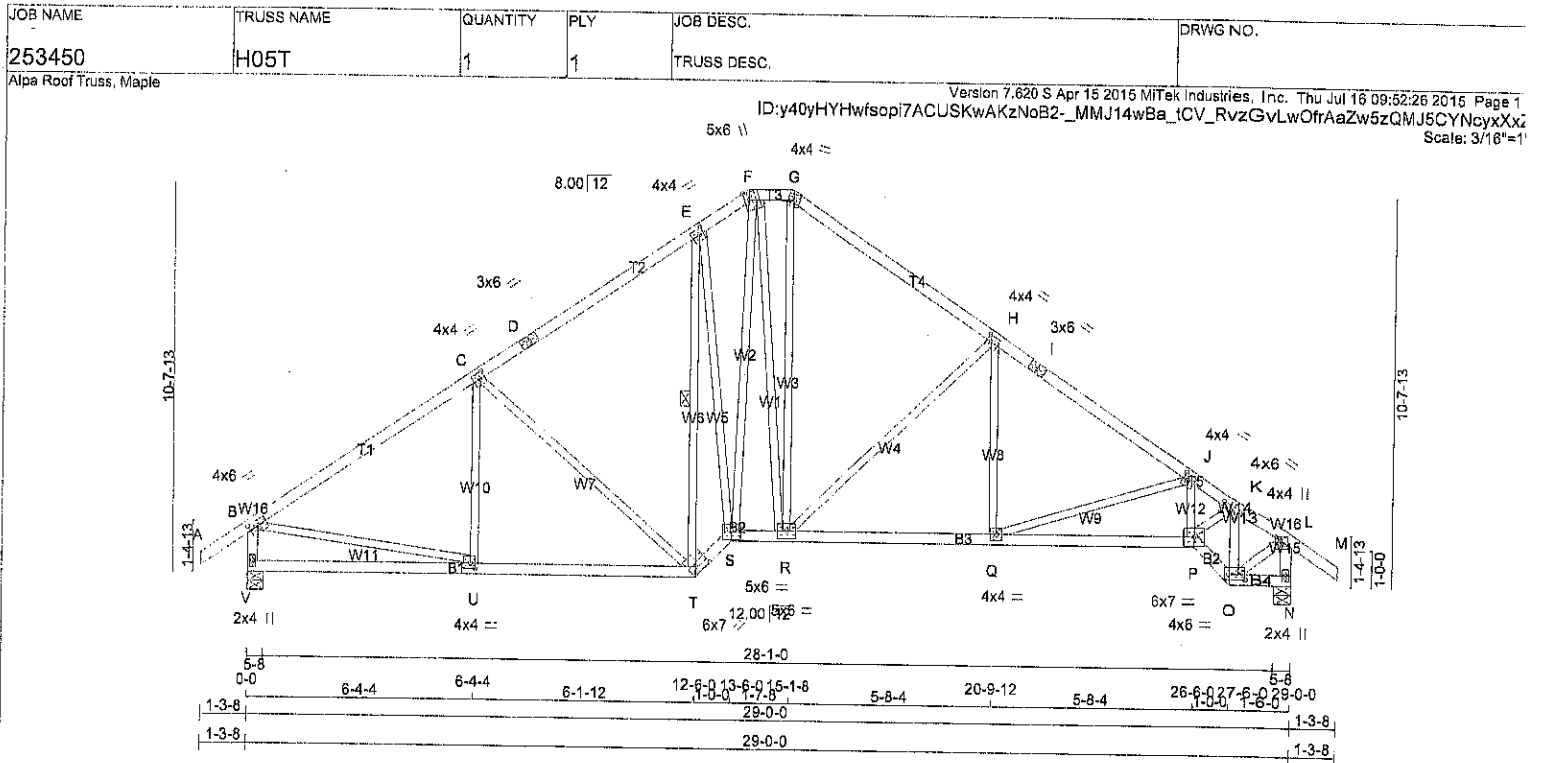
DESIGN ASSUMPTIONS
-OVERHANG NOT TO BE ALTERED OR CUT
OFF.

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

ALLOWABLE DEFL.(LL)= L/360 (0.97")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.31")
ALLOWABLE DEFL.(TL)= L/360 (0.97")
CALCULATED VERT. DEFL.(TL) = L/ 595 (0.59")

CSI: TC=0.87 (J-K:1), BC=0.91 (R-S:1), WB=0.84 (G-Q:1), SSI=0.35 (I-J:1)

A-15073745 CONTINUED ON PAGE 2



LUMBER			
N. L. G. A. RULES			
CHORDS	SIZE	LUMBER	DESCR.
A - D	2x4	DRY No.2	SPF
D - F	2x4	DRY No.2	SPF
F - G	2x4	DRY No.2	SPF
G - I	2x4	DRY No.2	SPF
I - M	2x4	DRY No.2	SPF
V - B	2x4	DRY No.2	SPF
N - L	2x4	DRY No.2	SPF
V - T	2x4	DRY No.2	SPF
T - S	2x4	DRY No.2	SPF
S - P	2x4	DRY No.2	SPF
P - O	2x4	DRY No.2	SPF
O - N	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-I	MT20	4.0	6.0 1.75 3.00
C, E, H, J				
C	TMVW-I	MT20	4.0	4.0 2.00 1.50
D	TS-I	MT20	3.0	6.0
F	TTWV+m	MT20	5.0	6.0 2.50 1.50
G	TTW-m	MT20	4.0	4.0
I	TS-I	MT20	3.0	6.0
K	TMVW-I	MT20	4.0	6.0 1.50 3.00
L	TMVW+p	MT20	4.0	4.0 1.25 1.75
N	BMV1+p	MT20	2.0	4.0
O	BBVW-I	MT20	4.0	6.0 1.75 4.50
P	BBVW-I	MT20	6.0	7.0
Q	BMVW-I	MT20	4.0	4.0
R	BMVWV-I	MT20	5.0	6.0
S	BBVW-I	MT20	6.0	6.0 3.00 3.00
T	BBVW-h	MT20	6.0	7.0 2.25 4.50
U	BMVW-I	MT20	4.0	4.0 1.75 1.50
V	BMV1+p	MT20	2.0	4.0

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

BEARINGS		FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	REQRD BRG
JT	VERT	DOWN	HORZ	UPLIFT	IN-SX
V	1370	0	1370	0	5-8 1-8
N	1374	0	1374	0	5-8 1-8

UNFACTORED REACTIONS		1ST LCASE	MAX/MIN COMPONENT REACTIONS
JT	COMBINED	SNOW	LIVE PERMLIVE WIND DEAD SOIL
V	963	685 / 0	0 / 0 0 / 0 298 / 0 0 / 0
N	966	667 / 0	0 / 0 0 / 0 298 / 0 0 / 0

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.68FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00FT. OR RIGID CEILING DIRECTLY APPLIED.

1 LATERAL BRACE(S) REQUIRED AT 1/2 LENGTH OF E-T.
END VERTICAL(S) MUST BE SHEATHED OR HAVE BRACES AS INDICATED IN THE MAX. UNBRACED LENGTH COLUMN OF THE TABLE BELOW

LOADING

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. FACTORED VERT. LOAD LC1 (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. FACTORED VERT. LOAD (LC)	
FR-TO		FROM TO		FR-TO			
A-B	0 / 27	-70.5 -70.5	0.08 (1)	U-C	-87 / 81	0.04 (1)	
B-C	-1486 / 0	-70.5 -70.5	0.40 (1)	C-T	-372 / 0	0.51 (1)	
C-D	-1189 / 0	-70.5 -70.5	0.36 (1)	T-E	-684 / 0	0.43 (1)	
D-E	-1189 / 0	-70.5 -70.5	0.36 (1)	E-S	0 / 301	0.07 (1)	
E-F	-1288 / 0	-70.5 -70.5	0.17 (1)	S-F	0 / 690	0.16 (1)	
F-G	-990 / 0	-70.5 -70.5	0.02 (1)	F-R	0 / 27	0.01 (4)	
G-H	-1209 / 0	-70.5 -70.5	0.30 (1)	R-G	0 / 458	0.10 (1)	
H-I	-1685 / 0	-70.5 -70.5	0.32 (1)	R-H	-571 / 0	0.77 (1)	
I-J	-1666 / 0	-70.5 -70.5	0.32 (1)	Q-H	0 / 202	0.05 (4)	
J-K	-1978 / 0	-70.5 -70.5	0.15 (1)	Q-J	-334 / 0	0.20 (1)	
K-L	-1038 / 0	-70.5 -70.5	0.08 (1)	P-J	-44 / 46	0.02 (4)	
L-M	0 / 27	-70.5 -70.5	0.08 (1)	P-K	0 / 1286	0.29 (1)	
V-B	-1326 / 0	0.0 0.0	0.14 (1)	O-K	-1304 / 0	0.20 (1)	
N-L	-1361 / 0	0.0 0.0	0.14 (1)	B-U	0 / 1277	0.29 (1)	
				O-L	0 / 1000	0.22 (1)	
V-U	0 / 0	-17.5 -17.5	0.19 (4)				
U-T	0 / 1259	-17.5 -17.5	0.30 (1)				
T-S	0 / 1380	-17.5 -17.5	0.23 (1)				
S-R	0 / 987	-17.5 -17.5	0.23 (1)				
R-Q	0 / 1397	-17.5 -17.5	0.30 (1)				
Q-P	0 / 1715	-17.5 -17.5	0.34 (1)				
P-O	0 / 1061	-17.5 -17.5	0.17 (1)				
O-N	0 / 0	-17.5 -17.5	0.01 (4)				

TOTAL WEIGHT = 162 lb

DESIGN CRITERIA

SPECIFIED LOADS:
TOP CH. LL = 21.0 PSF
DL = 3.0 PSF
BOT CH. LL = 0.0 PSF
DL = 7.0 PSF
TOTAL LOAD = 31.0 PSF

SPACING = 24.0 IN./C

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

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

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

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 (0.97")
CALCULATED VERT. DEFL.(LL)= L/999 (0.07")
ALLOWABLE DEFL.(TL)= L/360 (0.97")
CALCULATED VERT. DEFL.(TL)= L/999 (0.13")

CSI: TC=0.40 (B-C:1), BC=0.34 (P-Q:1), WB=0.77 (H-R:1), SSI=0.18 (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 = 0.50

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

NAIL VALUES
PLATE GRIP(DRY) SHEAR SECTION (PSI) (PLI) (PLI)
MAX MIN MAX MIN MAX MIN
MT20 616 354 1667 822 2284 1656

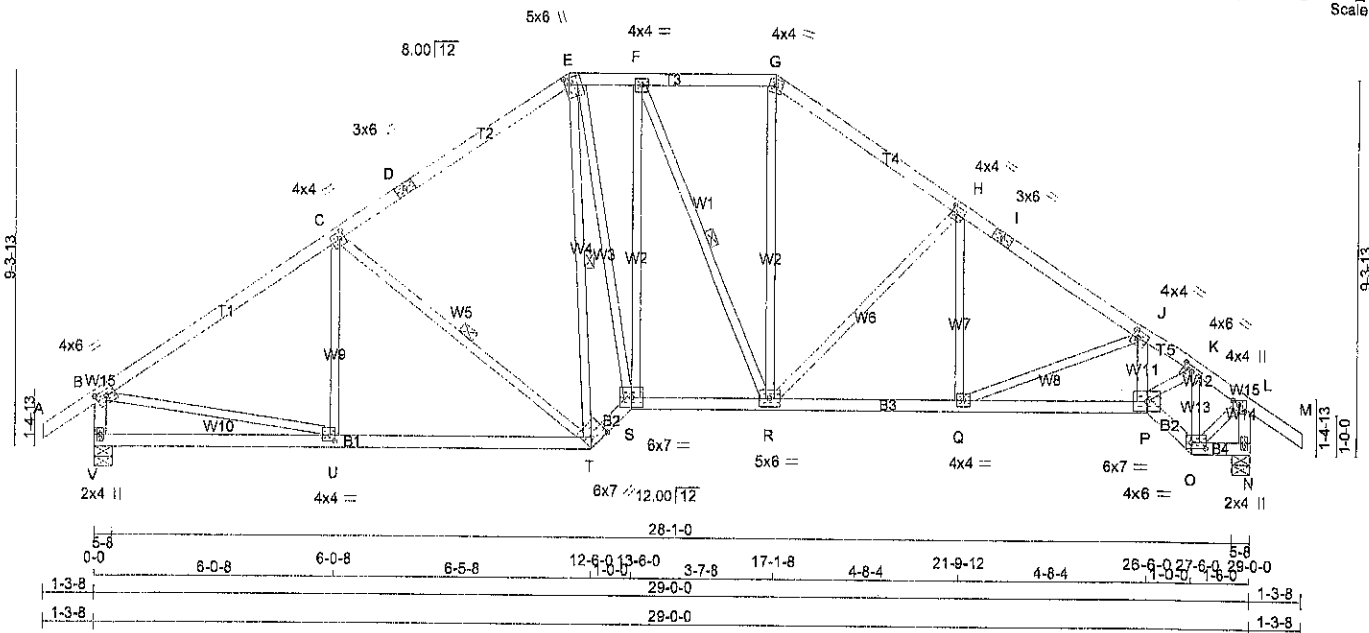
PLATE PLACEMENT TOL. = 0.260 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.88 (O) (INPUT = 0.90)
JSI METAL= 0.47 (U) (INPUT = 1.00)



A-10073744



TOTAL WEIGHT = 145 lb [M/F]

LUMBER				
N. L. G. A. RULES				
CHORDS	SIZE	LUMBER	DESCR.	
A - D	2x4	DRY	No.2	SPF
D - E	2x4	DRY	No.2	SPF
E - G	2x4	DRY	No.2	SPF
G - I	2x4	DRY	No.2	SPF
I - M	2x4	DRY	No.2	SPF
V - B	2x4	DRY	No.2	SPF
N - L	2x4	DRY	No.2	SPF
V - T	2x4	DRY	No.2	SPF
T - S	2x4	DRY	No.2	SPF
S - P	2x4	DRY	No.2	SPF
P - O	2x4	DRY	No.2	SPF
O - N	2x4	DRY	No.2	SPF

ALL WEBS 2x3 DRY No.2 SPF EXCEPT

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT TYPE	PLATES	W	LEN	Y	X
B TMVW-t	MT20	4.0	6.0	1.75	3.00
C H, J					
C TMVW-t	MT20	4.0	4.0	2.00	1.50
D TS-t	MT20	3.0	6.0		
E TTWW+m	MT20	5.0	6.0	2.00	1.25
F TMVW-t	MT20	4.0	4.0		
G TTW-m	MT20	4.0	4.0		
I TS-t	MT20	3.0	6.0		
K TMVW-t	MT20	4.0	6.0	1.50	3.00
L TMVW+p	MT20	4.0	4.0	1.25	1.75
N BMV1+p	MT20	2.0	4.0		
O BBWW-t	MT20	4.0	6.0	1.75	4.50
P BBWW-t	MT20	6.0	7.0		
Q BBWW-t	MT20	4.0	4.0		
R BBWWW-t	MT20	5.0	6.0		
S BBWW-t	MT20	6.0	7.0		
T BBWW-h	MT20	6.0	7.0	2.25	4.50
U BMVW-t	MT20	4.0	4.0	1.75	1.50
V BMV1+p	MT20	2.0	4.0		

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

BEARINGS

JT	FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG IN-SX	RECORD BRG IN-SX
	VERT	HORZ	DOWN	HORZ		
V	1370	0	1370	0	5-8	1-8
N	1374	0	1374	0	5-8	1-8

UNFACTORED REACTIONS

JT	1ST CASE COMBINED		MAX./MIN. COMPONENT REACTIONS		WIND	DEAD	SOIL
	SNOW	LIVE	PERM. LIVE	WIND			
V	963	665 / 0	0 / 0	0 / 0	0 / 0	298 / 0	0 / 0
N	966	667 / 0	0 / 0	0 / 0	0 / 0	298 / 0	0 / 0

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.73FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00FT. OR RIGID CEILING DIRECTLY APPLIED.

1 LATERAL BRACE(S) REQUIRED AT 1/2 LENGTH OF C-T, E-T, F-R.
END VERTICAL(S) MUST BE SHEATHED OR HAVE BRACES AS INDICATED IN THE MAX. UNBRACED LENGTH COLUMN OF THE TABLE BELOW

LOADING

TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. FACTORED UNBRACED LENGTH (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. FACTORED UNBRACED LENGTH (LC)	
FR-TO		FROM TO		FR-TO			
A-B	0 / 27	-70.5 -70.5 0.09 (1)	10.00	U-C	-98 / 78	0.04 (1)	
B-C	-1493 / 0	-70.5 -70.5 0.36 (1)	4.97	C-T	-371 / 0	0.17 (1)	
C-D	-1200 / 0	-70.5 -70.5 0.35 (1)	5.43	E-T	-641 / 0	0.37 (1)	
D-E	-1200 / 0	-70.5 -70.5 0.35 (1)	5.43	E-S	0 / 1111	0.25 (1)	
E-F	-1151 / 0	-70.5 -70.5 0.05 (1)	5.89	S-F	-119 / 0	0.16 (1)	
F-G	-1116 / 0	-70.5 -70.5 0.13 (1)	5.67	F-R	-92 / 0	0.05 (1)	
G-H	-1365 / 0	-70.5 -70.5 0.20 (1)	5.37	R-G	0 / 495	0.11 (1)	
H-I	-1724 / 0	-70.5 -70.5 0.22 (1)	4.88	R-H	-477 / 0	0.41 (1)	
I-J	-1724 / 0	-70.5 -70.5 0.22 (1)	4.88	Q-H	0 / 176	0.04 (4)	
J-K	-1975 / 0	-70.5 -70.5 0.10 (1)	4.73	Q-J	-265 / 0	0.11 (1)	
K-L	-1040 / 0	-70.5 -70.5 0.08 (1)	6.08	P-J	-21 / 43	0.01 (4)	
L-M	0 / 27	-70.5 -70.5 0.09 (1)	10.00	P-K	0 / 1250	0.28 (1)	
V-B	-1329 / 0	0.0 0.0 0.14 (1)	7.02	O-K	-1311 / 0	0.20 (1)	
N-L	-1361 / 0	0.0 0.0 0.14 (1)	6.86	B-U	0 / 1285	0.29 (1)	
				O-L	0 / 1005	0.23 (1)	
V-U	0 / 0	-17.5 -17.5 0.19 (4)	10.00				
U-T	0 / 1266	-17.5 -17.5 0.30 (1)	10.00				
T-S	0 / 1314	-17.5 -17.5 0.21 (1)	10.00				
S-R	0 / 1152	-17.5 -17.5 0.22 (1)	10.00				
R-Q	0 / 1445	-17.5 -17.5 0.27 (1)	10.00				
Q-P	0 / 1691	-17.5 -17.5 0.32 (1)	10.00				
P-O	0 / 1068	-17.5 -17.5 0.17 (1)	10.00				
O-N	0 / 0	-17.5 -17.5 0.01 (4)	10.00				

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH.	LL	=	21.0	PSF
	DL	=	3.0	PSF
BOT CH.	LL	=	0.0	PSF
	DL	=	7.0	PSF
TOTAL LOAD		=	31.0	PSF

SPACING = 24.0 IN. C/C

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

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

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

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 (0.97")
CALCULATED VERT. DEFL.(LL) = L/999 (0.08")
ALLOWABLE DEFL.(TL)= L/360 (0.97")
CALCULATED VERT. DEFL.(TL) = L/999 (0.14")

CSI: TC=0.38 (B-C:1), BC=0.32 (P-Q:1),
WB=0.41 (H-R:1), SSI=0.17 (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 = 0.50

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

NAIL VALUES
PLATE GRIP(DRY) SHEAR SECTION
(PSI) (PLI) (PLI)
MAX MIN MAX MIN MAX MIN
MT20 618 354 1667 622 2264 1656

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.89 (O) (INPUT = 0.90)
JSI METAL= 0.47 (U) (INPUT = 1.00)



A-15073743

TOTAL WEIGHT = 142 lb

DESIGN CRITERIA (M)

SPECIFIED LOADS:

TOP CH.	LL	=	21.0	PSF
	DL	=	3.0	PSF
BOT CH.	LL	=	0.0	PSF
	DL	=	7.0	PSF
TOTAL LOAD	=	31.0	PSF	

SPACING = 24.0 IN./C/C

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

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

THIS DESIGN COMPLIES WITH:

- PART 9 OF OBC 2012, BCBC 2012, ABC 2014
- CSA 086-09
- TPIC 2011

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)= $L/360$ (0.97")
CALCULATED VERT. DEFL.(LL)= $L/999$ (0.10")
ALLOWABLE DEFL.(TL)= $L/360$ (0.97")
CALCULATED VERT. DEFL.(TL)= $L/999$ (0.19")

CSI: TC=0.54 (G+H:1), BC=0.43 (N:O:1),
WB=0.75 (H:O:1), SSI=0.30 (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 = 0.50

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

NAIL VALUES

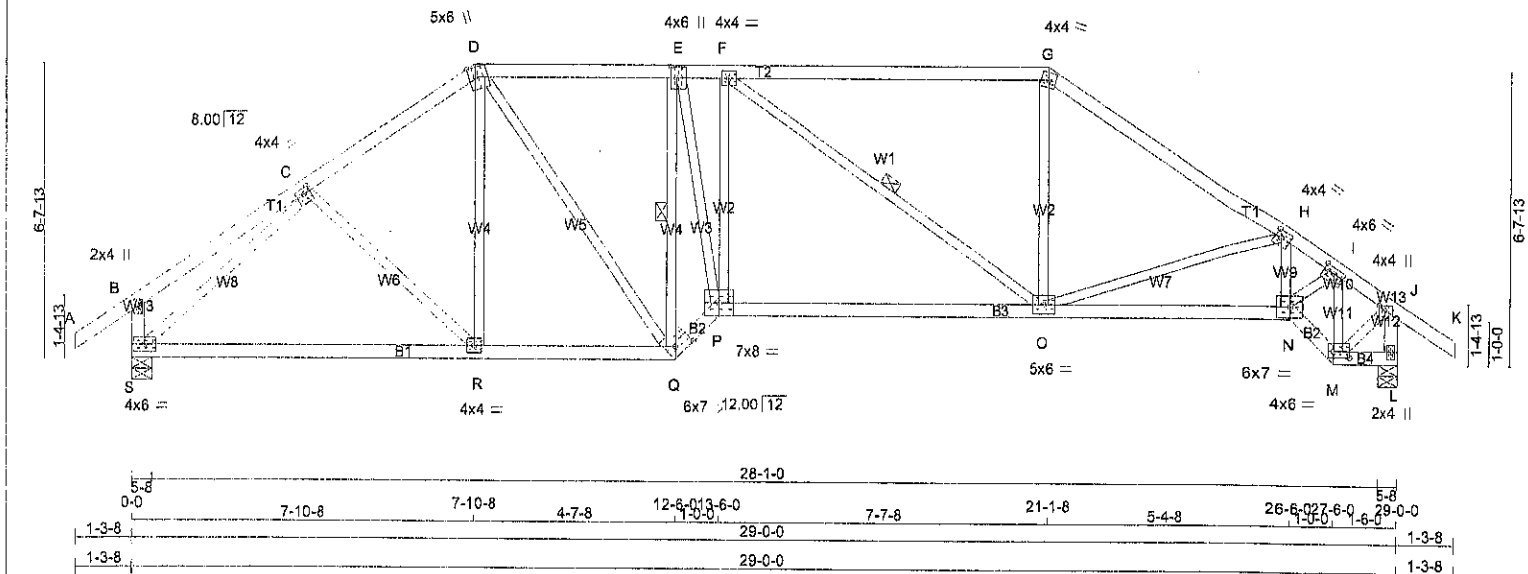
PLATE	GRIP(DRY)		SHEAR	SECTION		
	(PSI)	(PL)		(PL)	(PL)	
	MAX	MIN	MAX	MIN	MAX	MIN
MT20	616	354	1867	822	2284	1658

PLATE PLACEMENT TOL. = 0,250 inches

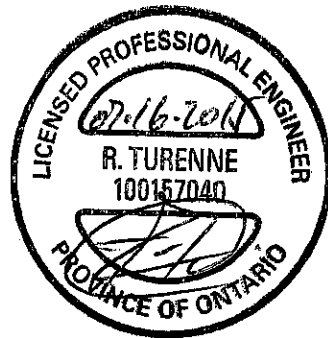
PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.87 (Q) (INPUT = 0.90)
JSI METAL= 0.47 (S) (INPUT = 1.00)

A-15073742



LUMBER N. L. G. A. RULES CHORDS SIZE LUMBER DESCR. A - D 2x4 DRY No.2 SPF D - G 2x4 DRY No.2 SPF G - K 2x4 DRY No.2 SPF S - B 2x4 DRY No.2 SPF L - J 2x4 DRY No.2 SPF S - Q 2x4 DRY No.2 SPF Q - P 2x4 DRY No.2 SPF P - N 2x4 DRY No.2 SPF N - M 2x4 DRY No.2 SPF M - L 2x4 DRY No.2 SPF ALL WEBS 2x3 DRY No.2 SPF EXCEPT				DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER BEARINGS FACTORED GROSS REACTION MAXIMUM FACTORED GROSS REACTION INPUT REQD JT VERT HORZ DOWN HORZ UPLIFT IN-SX IN-SX L 1374 0 1374 0 0 5-8 1-8 S 1370 0 1370 0 0 5-8 1-8 UNFACTORED REACTIONS 1ST LCASE MAX./MIN. COMPONENT REACTIONS JT COMBINED SNOW LIVE PERM.LIVE WIND DEAD SOIL L 966 667 / 0 0 / 0 0 / 0 298 / 0 0 / 0 S 963 665 / 0 0 / 0 0 / 0 298 / 0 0 / 0 BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) L, S BRACING TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.50FT. MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00FT. OR RIGID CEILING DIRECTLY APPLIED. 1 LATERAL BRACE(S) REQUIRED AT 1/2 LENGTH OF E-Q, F-O. END VERTICAL(S) MUST BE SHEATHED OR HAVE BRACES AS INDICATED IN THE MAX. UNBRACED LENGTH COLUMN OF THE TABLE BELOW LOADING TOTAL LOAD CASES: (4) CHORDS MAX. FACTORED FORCE (LBS) FACTORED VERT. LOAD (PLF) MAX. MAX. UNBRAC LENGTH FR-TO MEMB. FR-TO A-B 0 / 27 -70.5 -70.5 0.09 (1) 10.00 C-R -16 / 48 0.02 (4) B-C 0 / 17 -70.5 -70.5 0.16 (1) 10.00 R-D 0 / 146 0.04 (4) C-D -1416 / 0 -70.5 -70.5 0.15 (1) 5.34 D-Q 0 / 478 0.11 (1) D-E -1449 / 0 -70.5 -70.5 0.20 (1) 5.24 Q-E -1824 / 0 0.52 (1) E-F -1787 / 0 -70.5 -70.5 0.43 (1) 4.50 E-P 0 / 1851 0.42 (1) F-G -1384 / 0 -70.5 -70.5 0.51 (1) 4.90 P-F -283 / 11 0.14 (1) G-H -1672 / 0 -70.5 -70.5 0.27 (1) 4.88 F-O -503 / 0 0.29 (1) H-I -1894 / 0 -70.5 -70.5 0.22 (1) 4.59 O-G 0 / 550 0.12 (1) I-J -1034 / 0 -70.5 -70.5 0.10 (1) 6.07 O-H -403 / 0 0.22 (1) J-K 0 / 27 -70.5 -70.5 0.09 (1) 10.00 N-H -101 / 31 0.02 (1) S-B -205 / 0 0.0 0.0 0.02 (1) 7.81 N-I 0 / 1346 0.30 (1) L-J -1361 / 0 0.0 0.0 0.14 (1) 6.96 M-I -1291 / 0 0.20 (1) S-R 0 / 1176 -17.5 -17.5 0.33 (4) 10.00 S-C -1615 / 0 0.76 (1) R-Q 0 / 1166 -17.5 -17.5 0.34 (4) 10.00 M-J 0 / 990 0.22 (1) Q-P 0 / 2083 -17.5 -17.5 0.34 (1) 10.00 P-O 0 / 1792 -17.5 -17.5 0.42 (1) 10.00 O-N 0 / 1766 -17.5 -17.5 0.41 (1) 10.00 N-M 0 / 1061 -17.5 -17.5 0.17 (1) 10.00 M-L 0 / 0 -17.5 -17.5 0.01 (4) 10.00				DESIGN CRITERIA SPECIFIED LOADS: TOP CH. LL = 21.0 PSF DL = 3.0 PSF BOT CH. LL = 0.0 PSF DL = 7.0 PSF TOTAL LOAD = 31.0 PSF SPACING = 24.0 IN. C/C LOADING IN FLAT SECTION BASED ON A SLOPE OF 2.00/12 MINIMUM THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBCC 2010 THIS DESIGN COMPLIES WITH: - PART 9 OF OBC 2012, BCBC 2012, ABC 2014 - CSA 086-09 - TPIC 2011 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 (0.97") CALCULATED VERT. DEFL.(LL)= L/ 996 (0.12") ALLOWABLE DEFL.(TL)= L/360 (0.97") CALCULATED VERT. DEFL.(TL)= L/ 999 (0.26") CSI: TC=0.51 (F-G:1), BC=0.42 (O-P:1), WB=0.76 (C-S:1), SSI=0.25 (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 = 0.50 TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT. NAIL VALUES PLATE GRIP(DRY) SHEAR SECTION (PSI) (PLI) (PLI) MAX MIN MAX MIN MAX MIN MT20 618 354 1667 622 2284 1656 PLATE PLACEMENT TOL. = 0.250 inches PLATE ROTATION TOL. = 5.0 Deg. JSI GRIP= 0.87 (S) (INPUT = 0.90) JSI METAL= 0.60 (C) (INPUT = 1.00)			
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A-1073741

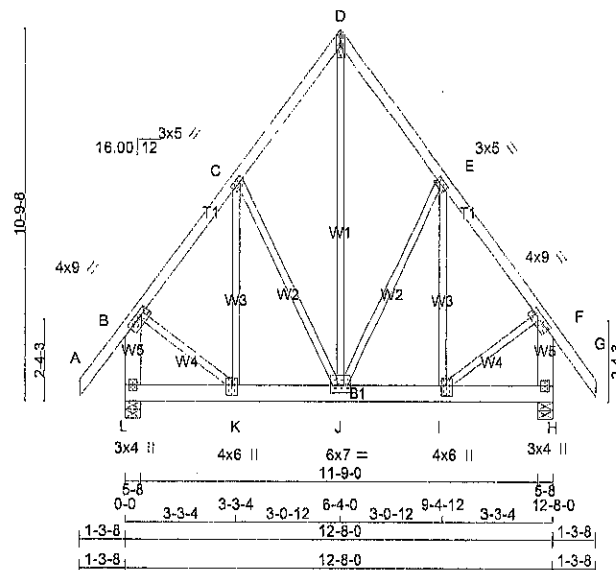
PLATES (table is in inches)					
JT	TYPE	PLATES	W	LEN	Y X
B	TMVW-I	MT20	5.0	8.0	2.00 3.75
C	TTVW+M	MT20	6.0	7.0	Edge 2.50
D	TMVW+M	MT20	2.0	4.0	
E	TMVWVW-I	MT20	7.0	8.0	1.75 2.00
F	TMVWV-I	MT20	4.0	4.0	
G	TS-I	MT20	3.0	8.0	
H	TMVW+M	MT20	2.0	4.0	
I	TTVW-M	MT20	6.0	9.0	Edge
J	TMVWV-I	MT20	4.0	4.0	2.00 1.50
K	TMVWV-I	MT20	6.0	7.0	2.25 3.50
L	TMVW+P	MT20	5.0	6.0	2.25 2.25
N	BMV1+P	MT20	3.0	5.0	
O	BBVWV-h	MT20	8.0	9.0	2.00 6.25
P	BBVWV-I	MT20	7.0	8.0	Edge 3.50
Q	BMVWV-I	MT20	4.0	4.0	
R	BMVWVW-I	MT20	5.0	8.0	2.50 2.50
S	BMVWV+P	MT20	8.0	12.0	Edge 4.75
T	BBVW-h	MT20	8.0	9.0	Edge 4.00
U	BMVWVW-I	MT20	5.0	6.0	2.00 2.00
V	BMVWV-I	MT20	5.0	8.0	2.50 2.00
W	BMV1+P	MT20	3.0	4.0	



A-N073740 CONTINUED ON PAGE 2

Alpa Roof Truss, Maple

Version 7.820 S Apr 15 2015 MTek Industries, Inc. Thu Jul 16 09:22:06 2015 Page 1
ID:y40yHYHwfsopi7ACUSKwAKzNoB2-HEOH2luZBnaR9H7L1FY9bGutwPAGvuToxKFw5yxYO;
3x8 II
Scale = 1:67.2



TOTAL WEIGHT = 2 X 94 = 187 lb

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

ALL WEBS 2x3 DRY No.2 SPF
EXCEPT

DRY: SEASONED LUMBER.

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

CHORDS #ROWS	SURFACE SPACING (IN)	LOAD (PLF)
TOP CHORDS : (0.122"x3") SPIRAL NAILS		
A-D 1 12		TOP
D-G 1 12		TOP
L-B 2 12		TOP
H-F 2 12		TOP
BOTTOM CHORDS : (0.122"x3") SPIRAL NAILS		
L-H 2 6		SIDE(369.6)
WEBS : (0.122"x3") SPIRAL NAILS		
2x3 1 6		

NAILS TO BE DRIVEN FROM ONE SIDE ONLY.

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

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

PLATES (table is in inches)

JT TYPE	PLATES	W	LEN	Y	X
B	TMVW-t	MT20	4.0	9.0	1.50 3.00
C	TMVW-t	MT20	3.0	6.0	1.50 1.50

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

BEARINGS	FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	REQD BRG
JT VERT	HORZ	DOWN	HORZ	UPLIFT
L 5211	0	5211	0	0
H 5211	0	5211	0	0

UNFACTORED REACTIONS

JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
L	3669	2498 / 0	0 / 0	0 / 0	0 / 0	1171 / 0	0 / 0
H	3669	2498 / 0	0 / 0	0 / 0	0 / 0	1171 / 0	0 / 0

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.96FT. MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00FT. OR RIGID CEILING DIRECTLY APPLIED.

LOADING

TOTAL LOAD CASES: (4)

CHORDS	MAX. FACTORED	FACTORED	VERT. LOAD	LC1 MAX	MAX	MEMB.	MAX. FACTORED	MAX
MEMB.	FORCE (LBS)	VERT. (PLF)	CS1 (LC)	UNBRAC	LENGTH	MEMB.	FORCE (LBS)	CS1 (LC)
FR-TO		FROM TO				FR-TO		
A-B	0 / 40	-70.5 -70.5	0.06 (1)	10.00	J-D	0 / 4111	0.51 (1)	
B-C	-3463 / 0	-70.5 -70.5	0.12 (1)	4.96	J-E	-1059 / 0	0.49 (1)	
C-D	-2700 / 0	-70.5 -70.5	0.09 (1)	5.49	I-E	0 / 1331	0.16 (1)	
D-E	-2700 / 0	-70.5 -70.5	0.09 (1)	5.49	C-J	-1059 / 0	0.49 (1)	
E-F	-3463 / 0	-70.5 -70.5	0.12 (1)	4.96	K-C	0 / 1331	0.16 (1)	
F-G	0 / 40	-70.5 -70.5	0.06 (1)	10.00	B-K	0 / 2400	0.30 (1)	
L-B	-4176 / 0	0.0 0.0	0.19 (1)	6.99	I-F	0 / 2400	0.30 (1)	
H-F	-4176 / 0	0.0 0.0	0.19 (1)	6.99				
L-K	0 / 0	-736.7 -736.7	0.27 (1)	10.00				
K-J	0 / 2082	-736.7 -736.7	0.34 (1)	10.00				
J-I	0 / 2082	-736.7 -736.7	0.34 (1)	10.00				
I-H	0 / 0	-736.7 -736.7	0.27 (1)	10.00				

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH.	LL	=	21.0	PSF
	DL	=	3.0	PSF
BOT CH.	LL	=	0.0	PSF
	DL	=	7.0	PSF
TOTAL LOAD		=	31.0	PSF

SPACING = 24.0 IN. C/C

GIRDER TYPE: CStd Girder

START DISTANCE = 0-0

START SPAN CARRIED = 34-8-8

END DISTANCE = 12-8-0

END SPAN CARRIED = 34-8-8

END WALL WIDTH = 0-0

APPLIED TO FRONT SIDE OF BOTTOM CHORD. - ADDTL LOADS BASED ON 55 % OF GSL.

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

THIS DESIGN COMPLIES WITH:

- PART 9 OF CBC 2012, CBC 2012, ABC 2014

- CSA 086-09

- TPIC 2011

(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 (0.04")

ALLOWABLE DEFL.(TL) = L/360 (0.42")

CALCULATED VERT. DEFL.(TL) = L/999 (0.07")

CSI: TC=0.19 (F-H:1), BC=0.34 (J-K:1), WB=0.51 (D-J:1), SSI=0.46 (H-I:1)

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

COMPANION LIVE LOAD FACTOR = 0.50

AUTOSOLVE HEELS OFF

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

NAIL VALUES

PLATE	GRIP(DRY)	SHEAR	SECTION
(PSI)	(PLI)	(PLI)	(PLI)
MAX	MIN	MAX	MIN
MT20	618	354	1667
	822	2264	1656

PLATE PLACEMENT TOL. = 0.250 inches

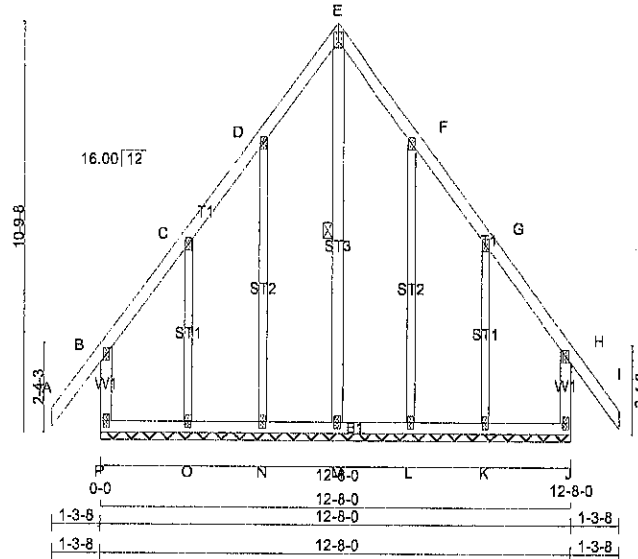
PLATE ROTATION TOL. = 5.0 Deg.

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

JSI METAL= 0.38 (D) (INPUT = 1.00)



A-10073739



LUMBER				
N. L. G. A. RULES				
CHORDS	SIZE	LUMBER	DESCR.	SPF
P - B	2x4	DRY	No.2	SPF
A - E	2x4	DRY	No.2	SPF
E - I	2x4	DRY	No.2	SPF
J - H	2x4	DRY	No.2	SPF
P - J	2x4	DRY	No.2	SPF
ALL WEBS EXCEPT	2x3	DRY	No.2	SPF
M - E	2x4	DRY	No.2	SPF
ALL GABLE WEBS EXCEPT	2x3	DRY	No.2	SPF
ST1	2x4	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
B TMV+p	MT20	2.0	4.0	
C, D, F, G				
E TMW+w	MT20	2.0	4.0	
F TTW+p	MT20	3.0	6.0	2.00 Edge
H TMV+p	MT20	2.0	4.0	
J BMV1+p	MT20	2.0	4.0	
K, L, M, N, O				
K BMW1+w	MT20	2.0	4.0	
P BMV1+p	MT20	2.0	4.0	

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

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

DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER
BEARINGS
 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 = 6.25FT.
 MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00FT. OR RIGID CEILING DIRECTLY APPLIED.
 1 LATERAL BRACE(S) REQUIRED AT 1/2 LENGTH OF E-M.
 END VERTICAL(S) MUST BE SHEATHED OR HAVE BRACES AS INDICATED IN THE MAX. UNBRACED LENGTH COLUMN OF THE TABLE BELOW

LOADING
 TOTAL LOAD CASES: (4)

CHORDS					WEBS				
MEMB.	MAX. FACTORED FORCE (LBS)	VERT. LOAD (PLF)	LC1 (LC)	MAX UNBRACED LENGTH	MEMB.	MAX. FACTORED FORCE (LBS)	MAX CSI (LC)		
FR-TO		FROM TO			FR-TO				
P-B	-195 / 0	0.0	0.0	0.02 (1)	7.81	M-E	-139 / 0	0.06 (1)	
A-B	0 / 40	-70.5	-70.5	0.10 (1)	10.00	N-D	-139 / 0	0.17 (1)	
B-C	-21 / 0	-70.5	-70.5	0.04 (1)	6.25	O-C	-142 / 0	0.06 (1)	
C-D	-13 / 0	-70.5	-70.5	0.03 (1)	6.25	L-F	-139 / 0	0.17 (1)	
D-E	-7 / 0	-70.5	-70.5	0.04 (1)	10.00	K-G	-142 / 0	0.06 (1)	
E-F	-7 / 0	-70.5	-70.5	0.04 (1)	10.00				
F-G	-13 / 0	-70.5	-70.5	0.03 (1)	6.25				
G-H	-21 / 0	-70.5	-70.5	0.04 (1)	6.25				
H-I	0 / 40	-70.5	-70.5	0.10 (1)	10.00				
J-H	-195 / 0	0.0	0.0	0.02 (1)	7.81				
P-O	0 / 11	-17.5	-17.5	0.02 (4)	10.00				
O-N	0 / 8	-17.5	-17.5	0.02 (4)	10.00				
N-M	0 / 5	-17.5	-17.5	0.02 (4)	10.00				
M-L	0 / 5	-17.5	-17.5	0.02 (4)	10.00				
L-K	0 / 8	-17.5	-17.5	0.02 (4)	10.00				
K-J	0 / 11	-17.5	-17.5	0.02 (4)	10.00				

TOTAL WEIGHT = 80 lb [M]

DESIGN CRITERIA

SPECIFIED LOADS:
 TOP CH. LL = 21.0 PSF
 DL = 3.0 PSF
 BOT CH. LL = 0.0 PSF
 DL = 7.0 PSF
 TOTAL LOAD = 31.0 PSF

SPACING = 24.0 IN. C/C

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

THIS DESIGN COMPLIES WITH:
 - PART 9 OF OBC 2012, BCBC 2012, ABC 2014
 - CSA 086-09
 - TPIG 2011

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

(65 % 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=0.10 (A-B:1), BC=0.02 (J-K:4), WB=0.17 (O-N:1), SSI=0.05 (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 = 0.50

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

NAIL VALUES
 PLATE GRIP(DRY) SHEAR SECTION
 (PSI) (PLI) (PLI)
 MAX MIN MAX MIN MAX MIN
 MT20 618 354 1667 822 2284 1656

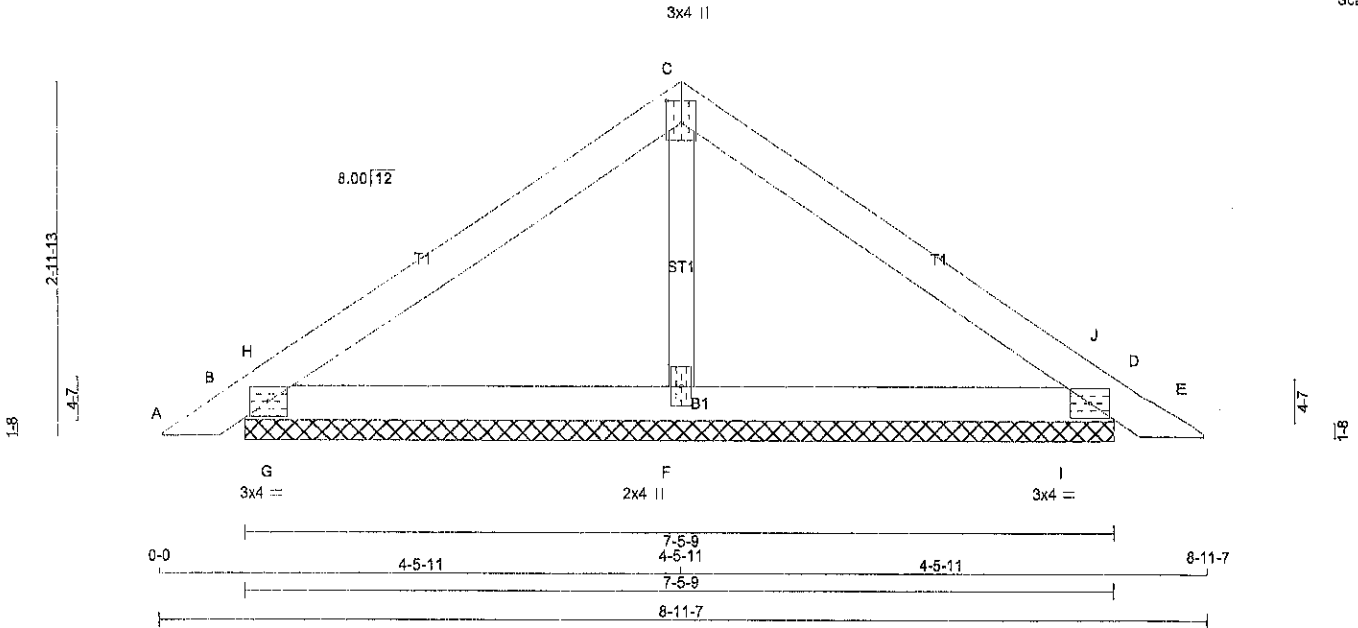
PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.18 (H) (INPUT = 0.90)
 JSI METAL= 0.06 (H) (INPUT = 1.00)



A-1073738



TOTAL WEIGHT = 2 X 23 = 46 lb (M)

LUMBER

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

GABLE STUDS SPACED AT 2'-0-0 OC.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMB1-I	MT20	3.0	4.0		
C	TTW+p	MT20	3.0	4.0	2.25	1.50
D	TMB1-I	MT20	3.0	4.0		
F	BMW1+w	MT20	2.0	4.0		

NOTES- (1)

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

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

BEARINGS

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 = 6.25FT.
 MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00FT. OR RIGID CEILING DIRECTLY APPLIED.

LOADING

TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	VERT. LOAD (PLF)	LC1 MAX (LC) (LBS)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX (LC) (LBS)	
FR-TO		FROM TO		FR-TO			
A-B	0 / 11	-70.5 -70.5	0.02 (1)	10.00	F-C	-112 / 0	0.02 (1)
B-H	-29 / 0	-70.5 -70.5	0.05 (1)	6.25	G-H	-256 / 0	0.00 (1)
H-C	-102 / 0	-70.5 -70.5	0.12 (1)	6.25	I-J	-256 / 0	0.00 (1)
C-J	-102 / 0	-70.5 -70.5	0.12 (1)	6.25			
J-D	-29 / 0	-70.5 -70.5	0.05 (1)	6.25			
D-E	0 / 11	-70.5 -70.5	0.02 (1)	10.00			
B-G	0 / 80	-17.5 -17.5	0.11 (1)	10.00			
G-F	0 / 80	-17.5 -17.5	0.11 (1)	10.00			
F-I	0 / 80	-17.5 -17.5	0.11 (1)	10.00			
I-D	0 / 80	-17.5 -17.5	0.11 (1)	10.00			

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH.	LL	=	21.0	PSF
	DL	=	3.0	PSF
BOT CH.	LL	=	0.0	PSF
	DL	=	7.0	PSF
TOTAL LOAD	=	31.0	PSF	

SPACING = 24.0 IN. C/C

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

THIS DESIGN COMPLIES WITH:

- PART 9 OF OBC 2012, BCBC 2012, ABC 2014
 - CSA 086-09
 - TPIC 2011

(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 (C-H:1), BC=0.11 (B-G:1),
 WB=0.02 (C-F:1), SSI=0.19 (D-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 = 0.50

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

NAIL VALUES

PLATE GRIP (DRY)	SHEAR (PSI)	SECTION (PLI)
MAX	MIN	MAX
MT20	618	354 1867 822 2284 1656

PLATE PLACEMENT TOL. = 0.250 inches

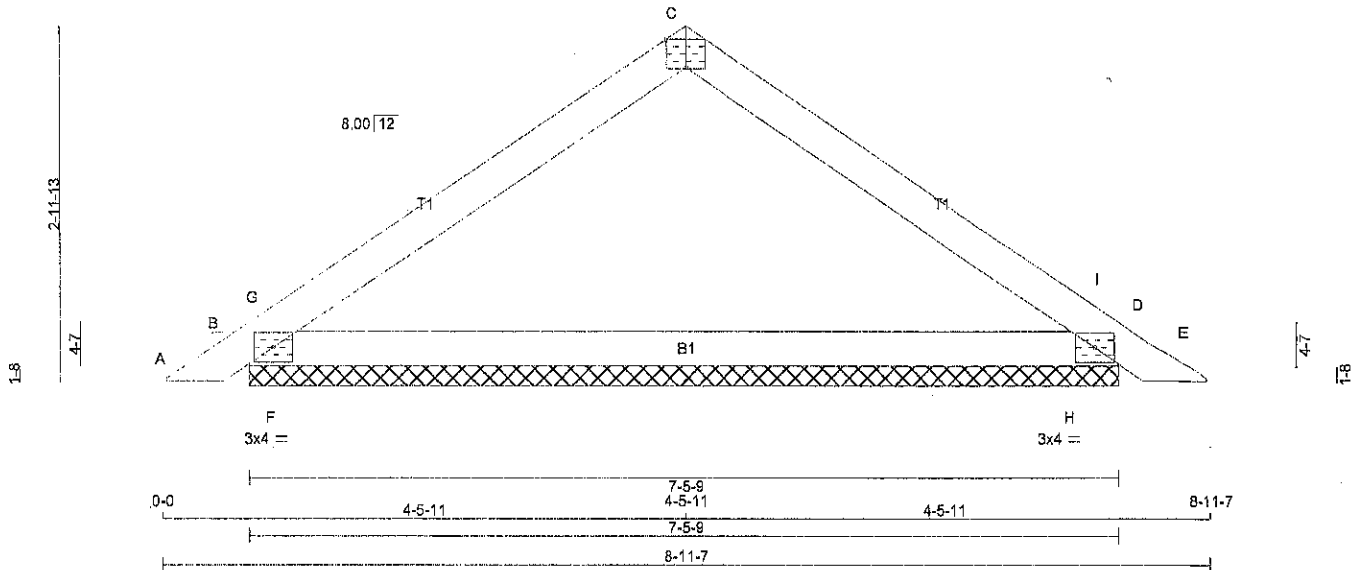
PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.26 (D) (INPUT = 0.90)

JSI METAL= 0.05 (D) (INPUT = 1.00)



A-11073737



TOTAL WEIGHT = 14 X 21 = 290 lb (M)

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

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMB1-I	MT20	3.0	4.0		
C	TT-p	MT20	3.0	4.0	Edge	2.00
D	TMB1-I	MT20	3.0	4.0		

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

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

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

BEARINGS

JT	FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG	REQRD BRG
	VERT	HORZ	DOWN	HORZ		
B	373	0	373	0	7-5-9	1-8
D	373	0	373	0	7-5-9	1-8

UNFACTORED REACTIONS

JT	COMBINED	MAX./MIN. COMPONENT REACTIONS				
		1ST CASE	SNOW	LIVE	PERM. LIVE	WIND
B	262	184 / 0	0 / 0	0 / 0	0 / 0	78 / 0
D	262	184 / 0	0 / 0	0 / 0	0 / 0	78 / 0

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

BRACING

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

LOADING

TOTAL LOAD CASES: (4).

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. FACTORED VERT. LOAD (LC1)	MAX. FACTORED HORIZ. LOAD (LC1)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. FACTORED HORIZ. LOAD (LC1)
FR-TO		FROM TO		UNBRAC LENGTH	FR-TO		
A-B	0 / 11	-70.5	-70.5	0.02 (1)	10.00	F-G	0 / 218
B-G	-375 / 0	-70.5	-70.5	0.13 (4)	6.25	H-I	0 / 218
G-C	-237 / 0	-70.5	-70.5	0.18 (1)	6.25		
C-I	-237 / 0	-70.5	-70.5	0.18 (1)	6.25		
I-D	-375 / 0	-70.5	-70.5	0.13 (4)	6.25		
D-E	0 / 11	-70.5	-70.5	0.02 (1)	10.00		
B-F	0 / 204	-17.5	-17.5	0.11 (4)	10.00		
F-H	0 / 204	-17.5	-17.5	0.16 (1)	10.00		
H-D	0 / 204	-17.5	-17.5	0.11 (4)	10.00		

DESIGN CRITERIA

SPECIFIED LOADS:
TOP CH. LL = 21.0 PSF
DL = 3.0 PSF
BOT CH. LL = 0.0 PSF
DL = 7.0 PSF
TOTAL LOAD = 31.0 PSF

SPACING = 24.0 IN. C/C

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

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

(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=0.18 (C-G:1), BC=0.16 (F-H:1), WB=0.00 (F-G:1), SSI=0.19 (D-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 = 0.50

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

NAIL VALUES
PLATE GRIP(DRY) SHEAR SECTION (PSI) (PLI) (PLI)
MAX MIN MAX MIN MAX MIN
MT20 618 354 1667 822 2284 1656

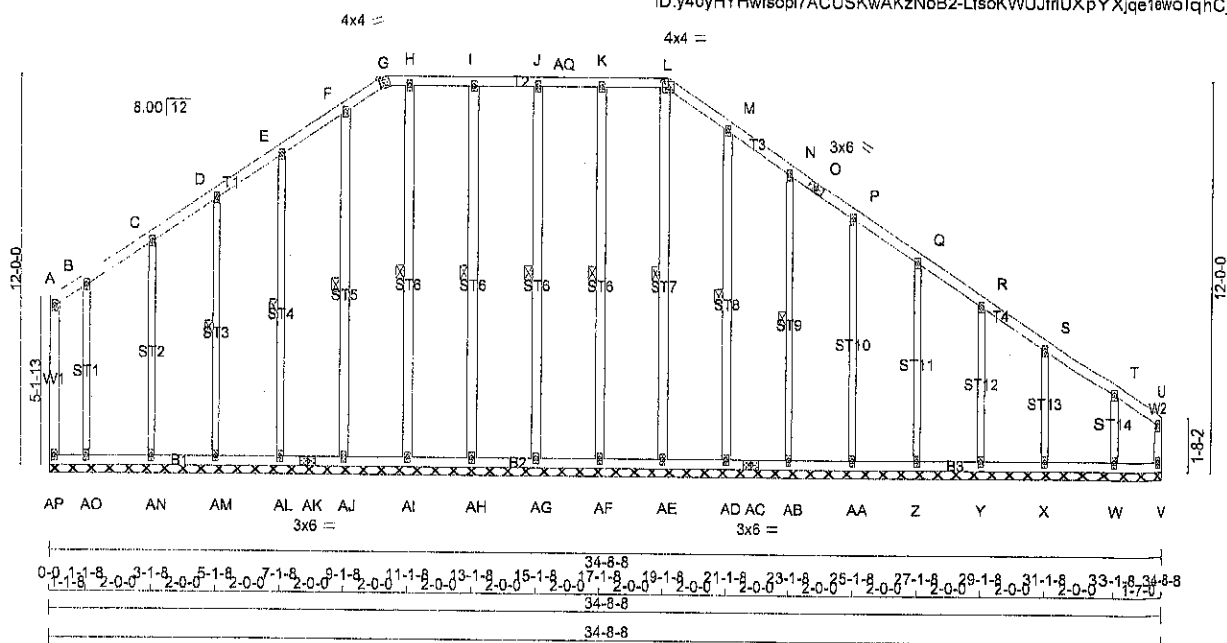
PLATE PLACEMENT TOL. = 0.250 Inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP=0.35 (D) (INPUT = 0.90)
JSI METAL=0.09 (D) (INPUT = 1.00)



A-11073736



TOTAL WEIGHT = 232 lb

LUMBER				
N. L. G. A. RULES				
CHORDS	SIZE		LUMBER	DESCR.
A - G	2x4	DRY	No.2	SPF
G - L	2x4	DRY	No.2	SPF
L - O	2x4	DRY	No.2	SPF
O - U	2x4	DRY	No.2	SPF
AP - A	2x4	DRY	No.2	SPF
V - U	2x4	DRY	No.2	SPF
AP - AK	2x4	DRY	No.2	SPF
AC - AC	2x4	DRY	No.2	SPF
AC - V	2x4	DRY	No.2	SPF
ALL WEBS EXCEPT				
AD - M	2x4	DRY	No.2	SPF
AE - L	2x4	DRY	No.2	SPF
AF - K	2x4	DRY	No.2	SPF
AG - J	2x4	DRY	No.2	SPF
AH - I	2x4	DRY	No.2	SPF
AI - H	2x4	DRY	No.2	SPF
AJ - F	2x4	DRY	No.2	SPF
ALL GABLE WEBS EXCEPT				
ST7	2x4	DRY	No.2	SPF
ST8	2x4	DRY	No.2	SPF
ST9	2x4	DRY	No.2	SPF
ST10	2x4	DRY	No.2	SPF
ST11	2x4	DRY	No.2	SPF
ST12	2x4	DRY	No.2	SPF
ST13	2x4	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, H, I, J, K, M, N, P, Q, R, S, T				
B TMW+w	MT20	2.0	4.0	
G TT-m	MT20	4.0	4.0	Edge 1.00

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 = 6.25FT.

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

1 LATERAL BRACE(S) REQUIRED AT 1/2 LENGTH OF N-AB, M-AD, L-AE, K-AF, J-AG, I-AH, H-AI, F-AJ, E-AL, D-AM.

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

LOADING									
TOTAL LOAD CASES: (4)									
CHORDS					WEBS				
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	LC1 MAX	UNBRAC	MEMB.	MAX. FACTORED FORCE (LBS)	LC1 MAX	UNBRAC	
FR-TO		FROM TO		LENGTH	FR-TO				
A-B	0/2	-70.5	-70.5	0.02 (1)	10.00	W-T	-124 / 0	0.02 (1)	
B-C	0/2	-70.5	-70.5	0.03 (1)	10.00	X-S	-142 / 0	0.04 (1)	
C-D	0/0	-70.5	-70.5	0.03 (1)	10.00	Y-R	-139 / 0	0.06 (1)	
D-E	0/2	-70.5	-70.5	0.03 (1)	10.00	Z-Q	-140 / 0	0.11 (1)	
E-F	0/6	-70.5	-70.5	0.04 (1)	10.00	AA-P	-141 / 0	0.18 (1)	
F-G	-13 / 0	-70.5	-70.5	0.04 (1)	6.25	AB-N	-138 / 0	0.08 (1)	
G-H	0/6	-78.0	-78.0	0.04 (1)	10.00	AD-M	-140 / 0	0.08 (1)	
H-I	0/6	-78.0	-78.0	0.04 (1)	10.00	AE-L	-153 / 0	0.12 (1)	
I-AQ	0/5	-78.0	-78.0	0.04 (1)	10.00	AF-K	-162 / 0	0.13 (1)	
AQ-J	0/5	-78.0	-78.0	0.04 (1)	10.00	AG-J	-155 / 0	0.12 (1)	
J-K	0/5	-78.0	-78.0	0.04 (1)	10.00	AH-I	-156 / 0	0.12 (1)	
K-L	0/5	-78.0	-78.0	0.04 (1)	10.00	AI-H	-159 / 0	0.12 (1)	
L-M	0/4	-70.5	-70.5	0.03 (1)	10.00	AJ-F	-148 / 0	0.10 (1)	
M-N	0/3	-70.5	-70.5	0.03 (1)	10.00	AL-E	-137 / 0	0.09 (1)	
N-O	0/0	-70.5	-70.5	0.03 (1)	10.00	AM-D	-140 / 0	0.07 (1)	
O-P	0/0	-70.5	-70.5	0.03 (1)	10.00	AN-C	-146 / 0	0.13 (1)	
P-Q	0/0	-70.5	-70.5	0.03 (1)	10.00	AO-B	-109 / 0	0.06 (1)	
Q-R	-3 / 0	-70.5	-70.5	0.03 (1)	10.00				
R-S	-6 / 0	-70.5	-70.5	0.03 (1)	10.00				
S-T	-8 / 0	-70.5	-70.5	0.03 (1)	10.00				
T-U	-11 / 0	-70.5	-70.5	0.03 (1)	6.25				
AP-A	-30 / 0	0.0	0.0	0.01 (1)	7.81				
V-U	-55 / 0	0.0	0.0	0.01 (1)	7.81				
AP-AO	0/2	-17.5	-17.5	0.01 (4)	10.00				
AO-AN	0/0	-17.5	-17.5	0.01 (4)	10.00				
AN-AM	-1 / 0	-17.5	-17.5	0.01 (4)	10.00				
AM-AL	-2 / 0	-17.5	-17.5	0.01 (4)	10.00				
AL-AK	-4 / 0	-17.5	-17.5	0.01 (4)	10.00				
AK-AJ	-4 / 0	-17.5	-17.5	0.01 (4)	10.00				
AJ-AI	-5 / 0	-17.5	-17.5	0.01 (4)	10.00				
AI-AH	-5 / 0	-17.5	-17.5	0.01 (4)	10.00				
AH-AG	-5 / 0	-17.5	-17.5	0.01 (4)	10.00				
AG-AF	-5 / 0	-17.5	-17.5	0.01 (4)	10.00				
AF-AE	-5 / 0	-17.5	-17.5	0.01 (4)	10.00				
AE-AD	-3 / 0	-17.5	-17.5	0.01 (4)	10.00				
AD-AC	-2 / 0	-17.5	-17.5	0.01 (4)	10.00				
AC-AB	-2 / 0	-17.5	-17.5	0.01 (4)	10.00				
AB-AA	-1 / 0	-17.5	-17.5	0.01 (4)	10.00				
AA-Z	0 / 0	-17.5	-17.5	0.01 (4)	10.00				
Z-Y	0 / 2	-17.5	-17.5	0.01 (4)	10.00				
Y-X	0 / 4	-17.5	-17.5	0.01 (4)	10.00				
X-W	0 / 8	-17.5	-17.5	0.01 (4)	10.00				
W-V	0 / 12	-17.5	-17.5	0.01 (4)	10.00				

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH. LL = 21.0 PSF
DL = 3.0 PSF

BOT CH. LL = 0.0 PSF
DL = 7.0 PSF

TOTAL LOAD = 31.0 PSF

SPACING = 24.0 IN. C/C

LOADING IN FLAT SECTION BASED ON PIGGYBACK TRUSS WITH SLOPES OF 6.00/12 AND -6.00/12 AND RESPECTIVE WALL HEIGHTS OF 0'-0" AND 0'-0" AND AN ADDITIONAL DEAD LOAD OF 3.0 P.S.F.

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

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

(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 (K-L:1), BC=0.01 (AN-AO:4), WB=0.18 (P-AA:1), SSI=0.06 (K-L: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 = 0.50

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

NAIL VALUES

PLATE GRIP(DRY)	SHEAR	SECTION
(PSI)	(PLI)	(PLI)
MAX MIN	MAX MIN	MAX MIN
MT20	618	354
	1667	822
	2284	1856

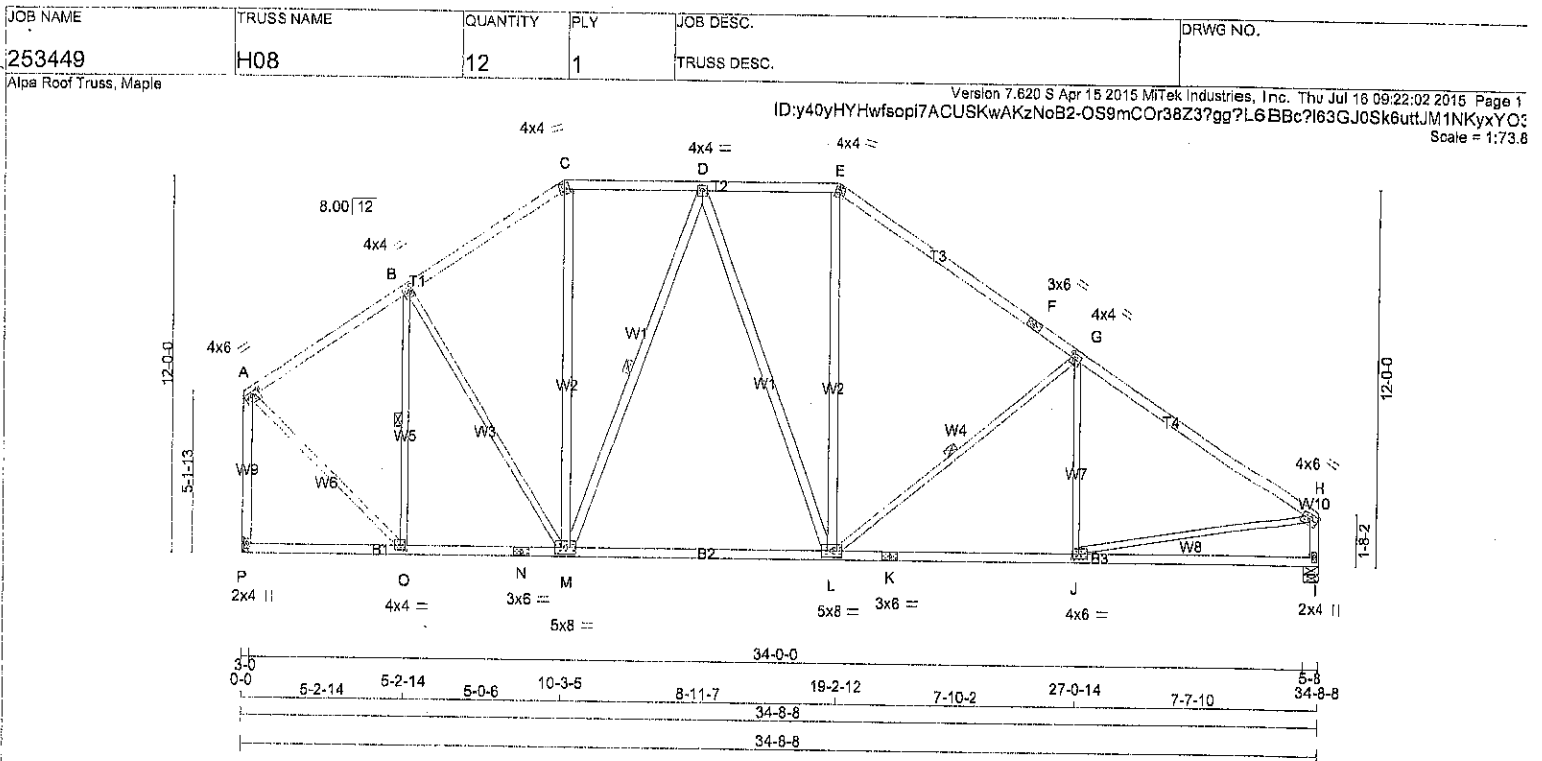
PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 6.0 Deg.

JSI GRIP= 0.52 (G) (INPUT = 0.90)
JSI METAL= 0.04 (L) (INPUT = 1.00)

A-15073735





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

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	TMVW-t	MT20	4.0	4.0	2.00	1.50
C	TTW-m	MT20	4.0	4.0		
D	TMVW-t	MT20	4.0	4.0		
E	TTW-m	MT20	4.0	4.0		
F	TS-t	MT20	3.0	6.0		
G	TMVW-t	MT20	4.0	4.0	2.00	1.50
H	TMVW-t	MT20	4.0	6.0	1.75	Edge
I	BMV1+p	MT20	2.0	4.0		
J	BMVW-t	MT20	4.0	6.0	2.00	2.50
K	BS-t	MT20	3.0	6.0		
L	BMVW-t	MT20	5.0	8.0		
M	BMVW-t	MT20	5.0	8.0		
N	BS-t	MT20	3.0	6.0		
O	BMVW-t	MT20	4.0	4.0	1.75	1.75
P	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

JT	FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG	REQD BRG
	VERT	HORZ	DOWN	HORZ		
P	1565	0	1565	0	0	0
I	1555	0	1555	0	0	0

UNFACTORED REACTIONS

JT	1ST LOASE COMBINED		MAX/MIN. COMPONENT REACTIONS		WIND	DEAD	SOIL
	SNOW	LIVE	PERM. LIVE	WIND			
P	1106	728 / 0	0 / 0	0 / 0	378 / 0	0 / 0	0 / 0
I	1098	728 / 0	0 / 0	0 / 0	370 / 0	0 / 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 = 4.17FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00FT. OR RIGID CEILING DIRECTLY APPLIED.

1 LATERAL BRACE(S) REQUIRED AT 1/2 LENGTH OF B-O, D-M, G-L.
END VERTICAL(S) MUST BE SHEATHED OR HAVE BRACES AS INDICATED IN THE MAX. UNBRACED LENGTH COLUMN OF THE TABLE BELOW

LOADING

TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. UNBRACED LENGTH (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. UNBRACED LENGTH (LC)	
FR-TO				FR-TO			
A-B	-1024 / 0	-70.5	-70.5 0.25 (1)	5.90	O-B	-714 / 0	0.34 (1)
B-C	-1212 / 0	-70.5	-70.5 0.26 (1)	5.53	B-M	0 / 218	0.05 (1)
C-D	-991 / 0	-78.0	-78.0 0.21 (1)	6.03	M-C	0 / 391	0.06 (1)
D-E	-1167 / 0	-78.0	-78.0 0.21 (1)	5.67	M-D	-479 / 0	0.45 (1)
E-F	-1434 / 0	-70.5	-70.5 0.68 (1)	4.60	D-L	0 / 39	0.01 (4)
F-G	-1434 / 0	-70.5	-70.5 0.68 (1)	4.60	L-E	0 / 429	0.07 (1)
G-H	-1812 / 0	-70.5	-70.5 0.72 (1)	4.17	L-G	-485 / 0	0.37 (1)
H-A	-1526 / 0	0.0	0.0 0.74 (1)	5.65	J-G	-126 / 77	0.10 (1)
I-H	-1500 / 0	0.0	0.0 0.16 (1)	6.70	A-O	0 / 1185	0.27 (1)
					J-H	0 / 1563	0.35 (1)
P-O	0 / 0	-17.5	-17.5 0.10 (4)	10.00			
O-N	0 / 971	-17.5	-17.5 0.27 (4)	10.00			
N-M	0 / 871	-17.5	-17.5 0.27 (4)	10.00			
M-L	0 / 1156	-17.5	-17.5 0.34 (4)	10.00			
L-K	0 / 1539	-17.5	-17.5 0.39 (1)	10.00			
K-J	0 / 1539	-17.5	-17.5 0.39 (1)	10.00			
J-I	0 / 0	-17.5	-17.5 0.24 (4)	10.00			

TOTAL WEIGHT = 12 X 185 = 2219 lb [M][F]

DESIGN CRITERIA

SPECIFIED LOADS:
TOP CH. LL = 21.0 PSF
DL = 3.0 PSF
BOT CH. LL = 0.0 PSF
DL = 7.0 PSF
TOTAL LOAD = 31.0 PSF

SPACING = 24.0 IN. C/C

LOADING IN FLAT SECTION BASED ON PIGGYBACK TRUSS WITH SLOPES OF 6.00/12 AND -6.00/12 AND RESPECTIVE WALL HEIGHTS OF 0-0 AND 0-0 AND AN ADDITIONAL DEAD LOAD OF 3.0 P.S.F.

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

THIS DESIGN COMPLIES WITH:
- PART 9 OF OBC 2012, BCBC 2012, ABC 2014
- CSA 088-09
- TPIC 2011

(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 (1.16")
CALCULATED VERT. DEFL.(LL)= L/ 999 (0.06")
ALLOWABLE DEFL.(TL)= L/360 (1.16")
CALCULATED VERT. DEFL.(TL)= L/ 999 (0.18")

CSI: TC=0.74 (A-P:1), BC=0.39 (J-L:1), WB=0.45 (D-M:1), SSI=0.22 (E-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 = 0.50

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

NAIL VALUES
PLATE GRIP(DRY) SHEAR SECTION
(PSI) (PLI) (PLI)
MAX MIN MAX MIN MAX MIN
MT20 618 354 1667 822 2264 1656

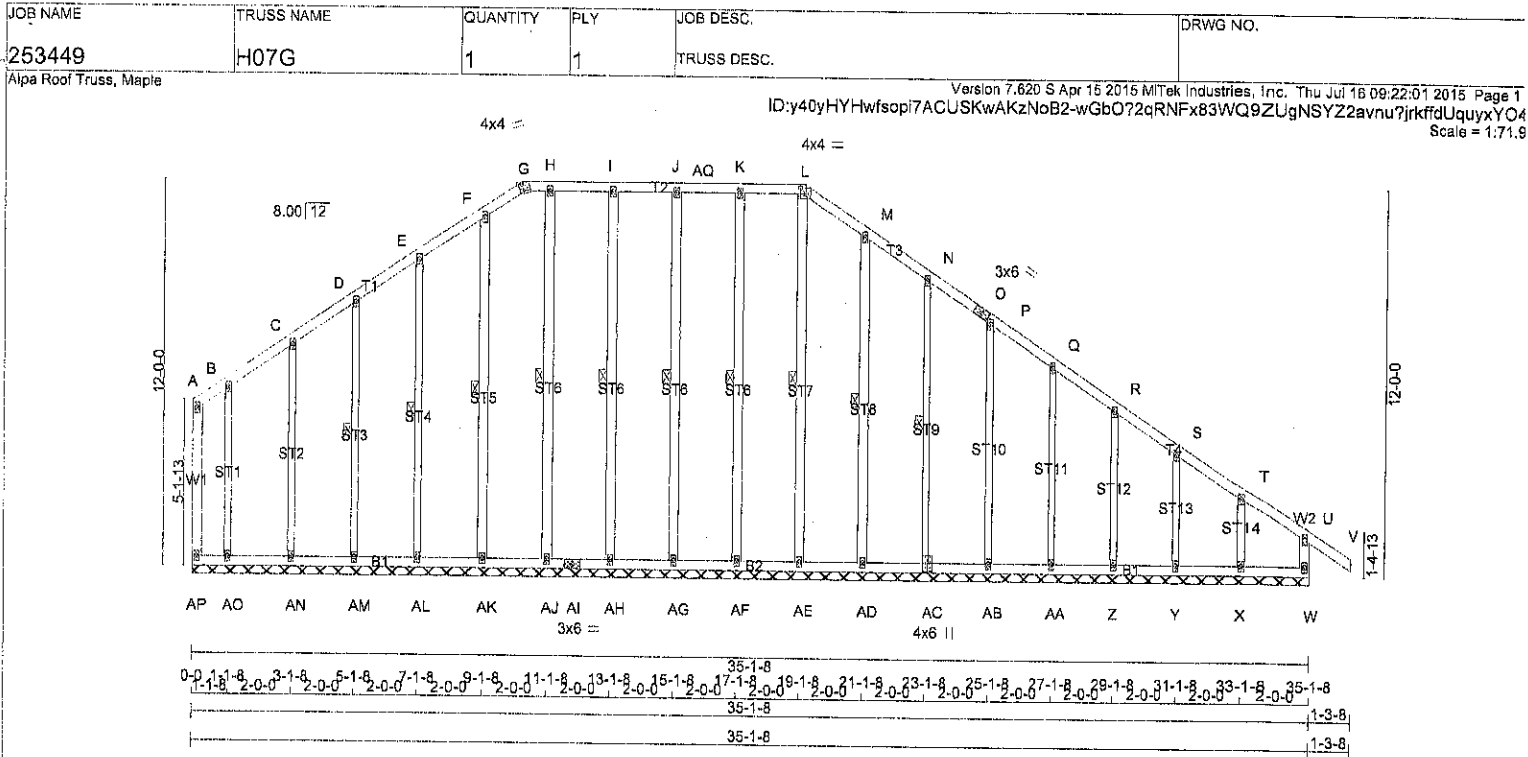
PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.89 (O) (INPUT = 0.90)
JSI METAL= 0.49 (H) (INPUT = 1.00)



A-N073734



LUMBER				DESCR.
N.L.G.A. RULES	CHORDS	SIZE	LUMBER	
A - G	2x4	DRY	No.2	SPF
G - L	2x4	DRY	No.2	SPF
L - O	2x4	DRY	No.2	SPF
O - V	2x4	DRY	No.2	SPF
AP - A	2x4	DRY	No.2	SPF
W - U	2x4	DRY	No.2	SPF
AP - AI	2x4	DRY	No.2	SPF
AI - AC	2x4	DRY	No.2	SPF
AC - W	2x4	DRY	No.2	SPF

ALL GABLE WEBS				
EXCEPT	2x3	DRY	No.2	SPF
ST7	2x4	DRY	No.2	SPF
ST8	2x4	DRY	No.2	SPF
ST9	2x4	DRY	No.2	SPF
ST10	2x4	DRY	No.2	SPF
ST11	2x4	DRY	No.2	SPF
ST12	2x4	DRY	No.2	SPF
ST13	2x4	DRY	No.2	SPF

ALL GABLE WEBS EXCEPT

ST7	2x4	DRY	No.2	SPF
ST8	2x4	DRY	No.2	SPF
ST9	2x4	DRY	No.2	SPF
ST10	2x4	DRY	No.2	SPF
ST11	2x4	DRY	No.2	SPF
ST12	2x4	DRY	No.2	SPF
ST13	2x4	DRY	No.2	SPF

DRY: SEASONED LUMBER.

GABLE STUDS SPACED AT 2-0-0 OC.

PLATES (table is in inches)

JT TYPE	PLATES	W	LEN	Y	X
A TMV+p	MT20	2.0	4.0		
B, C, D, E, F, H, I, J, K, M, N, P, Q, R, S, T					
B TMW+w	MT20	2.0	4.0		
G TT-m	MT20	4.0	4.0	Edge	1.00

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 = 6.25FT.

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

1 LATERAL BRACE(S) REQUIRED AT 1/2 LENGTH OF N-AC, M-AD, L-AE, K-AF, J-AG, I-AH, H-AJ, F-AK, E-AL, D-AM.

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)	MAX. FACTORED VERT. LOAD LC1 (PLF)	MAX. FACTORED UNBRACED LENGTH (LC)
FR-TO			
A-B	0/5	-70.5 -70.5 0.02 (1)	10.00 X-T -107/0
B-C	0/3	-70.5 -70.5 0.03 (1)	10.00 Y-S -146/0
C-D	0/2	-70.5 -70.5 0.03 (1)	10.00 Z-R -138/0
D-E	0/4	-70.5 -70.5 0.03 (1)	10.00 AA-Q -140/0
E-F	0/7	-70.5 -70.5 0.04 (1)	10.00 AB-P -141/0
F-G	-11/0	-70.5 -70.5 0.04 (1)	6.25 AC-N -139/0
G-H	0/7	-78.0 -78.0 0.04 (1)	10.00 AD-M -141/0
H-I	0/6	-78.0 -78.0 0.04 (1)	10.00 AE-L -153/0
I-AQ	0/6	-78.0 -78.0 0.04 (1)	10.00 AF-K -162/0
AQ-J	0/6	-78.0 -78.0 0.04 (1)	10.00 AG-J -155/0
J-K	0/6	-78.0 -78.0 0.04 (1)	10.00 AH-I -156/0
K-L	0/6	-78.0 -78.0 0.04 (1)	10.00 AJ-H -159/0
L-M	0/6	-70.5 -70.5 0.03 (1)	10.00 AK-F -148/0
M-N	0/5	-70.5 -70.5 0.03 (1)	10.00 AL-E -137/0
N-O	0/4	-70.5 -70.5 0.03 (1)	10.00 AM-D -140/0
O-P	0/4	-70.5 -70.5 0.03 (1)	10.00 AN-C -145/0
P-Q	0/2	-70.5 -70.5 0.03 (1)	10.00 AO-B -112/0
Q-R	0/0	-70.5 -70.5 0.03 (1)	10.00
R-S	-3/0	-70.5 -70.5 0.03 (1)	10.00
S-T	-3/0	-70.5 -70.5 0.03 (1)	10.00
T-U	-23/0	-70.5 -70.5 0.08 (1)	6.25
U-V	0/27	-70.5 -70.5 0.09 (1)	10.00
AP-A	-27/0	0.0 0.0 0.01 (1)	7.81
W-U	-193/0	0.0 0.0 0.03 (1)	7.81

TOTAL WEIGHT = 234 lb [M]

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH. LL = 21.0 PSF

DL = 3.0 PSF

BOT CH. LL = 0.0 PSF

DL = 7.0 PSF

TOTAL LOAD = 31.0 PSF

SPACING = 24.0 IN./C/C

LOADING IN FLAT SECTION BASED ON PIGGYBACK TRUSS WITH SLOPES OF 6.00/12 AND -6.00/12 AND RESPECTIVE WALL HEIGHTS OF 0-0 AND 0-0 AND AN ADDITIONAL DEAD LOAD OF 3.0 P.S.F.

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

THIS DESIGN COMPLIES WITH:

- PART 9 OF OBC 2012, BCBC 2012, ABC 2014
- CSA 086-09
- TPIC 2011

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=0.09 (U-V:1), BC=0.03 (W-X:1), WB=0.18 (P-AB:1), SSI=0.07 (K-L: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 = 0.50

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

NAIL VALUES

PLATE GRIP(DRY)	SHEAR (PSI)	SECTION (PLI)
MT20	618 354 1687 822 2284 1656	

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

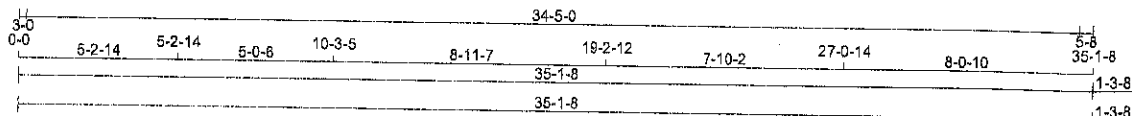
JSI GRIP= 0.52 (G) (INPUT = 0.90)

JSI METAL= 0.05 (AC) (INPUT = 1.00)

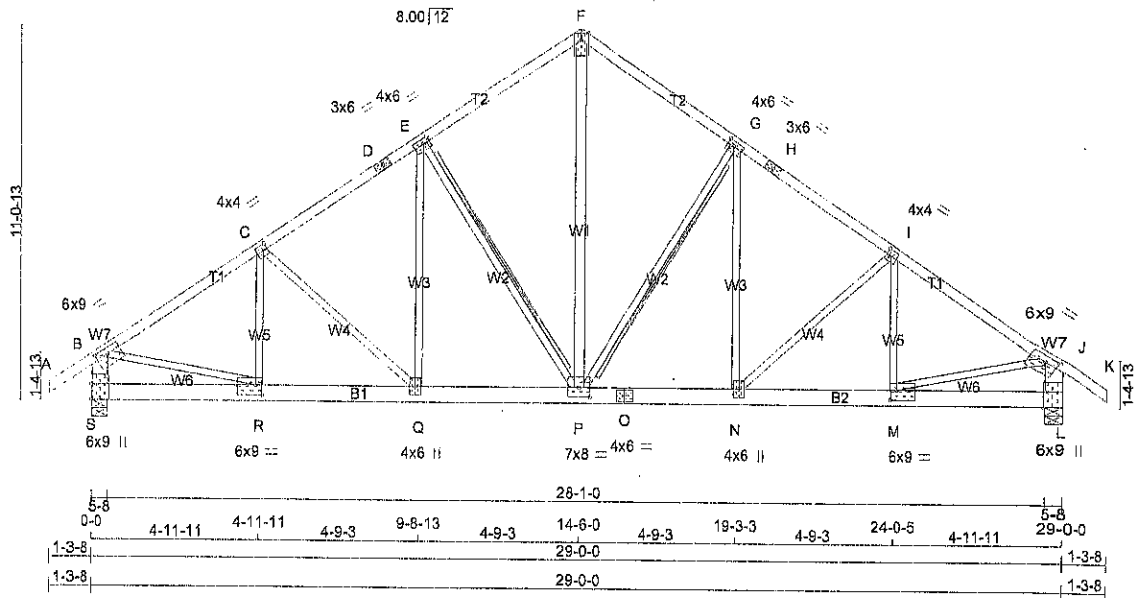


A-15073733

Scale = 1:74.6



A-15073732



LUMBER			
N. L. G. A. RULES			
CHORDS	SIZE	LUMBER	DESCR
A - D	2x4	DRY	No.2
D - F	2x4	DRY	No.2
F - H	2x4	DRY	No.2
H - K	2x4	DRY	No.2
S - B	2x6	DRY	No.2
L - J	2x6	DRY	No.2
S - O	2x6	DRY	No.2
O - L	2x6	DRY	No.2
ALL WEBS EXCEPT P - F	2x3	DRY	No.2
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DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER									
BEARINGS									
JT	FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG		REQRD BRG		
	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX	IN-SX	IN-SX
S	11933	0	11933	0	0	5-8	5-8	5-8	5-8
L	11933	0	11933	0	0	5-8	5-8	5-8	5-8
UNFACTORED REACTIONS									
JT	1ST CASE COMBINED		MAX/MIN. COMPONENT REACTIONS		PERM. LIVE		WIND DEAD SOIL		
	SNOW	LIVE	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL	SOIL
S	8405	5705 / 0	0 / 0	0 / 0	0 / 0	0 / 0	2700 / 0	0 / 0	0 / 0
L	8405	5705 / 0	0 / 0	0 / 0	0 / 0	0 / 0	2700 / 0	0 / 0	0 / 0
BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) S, L									
BRACING									
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.05FT. MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00FT. OR RIGID CEILING DIRECTLY APPLIED.									
2x6 DRY SPF NO.2 T-BRACE REQUIRED AT G-P, E-P 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 LC1	MAX CS1 (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX CS1 (LC)	MAX CS1 (LC)	MAX CS1 (LC)
FR-TO		FROM TO			FR-TO				
A-B	0 / 27	-70.5 -70.5	0.03 (1)	10.00	P-F	0 / 10652	0.57 (1)		
B-C	-14007 / 0	-70.5 -70.5	0.52 (1)	3.05	P-G	-4034 / 0	0.65 (1)		
C-D	-12461 / 0	-70.5 -70.5	0.36 (1)	3.31	N-G	0 / 4481	0.34 (1)		
D-E	-12461 / 0	-70.5 -70.5	0.36 (1)	3.31	N-I	-1737 / 0	0.42 (1)		
E-F	-9876 / 0	-70.5 -70.5	0.27 (1)	3.74	M-I	0 / 1677	0.13 (1)		
F-G	-9876 / 0	-70.5 -70.5	0.27 (1)	3.74	E-P	-4034 / 0	0.65 (1)		
G-H	-12461 / 0	-70.5 -70.5	0.36 (1)	3.31	Q-E	0 / 4481	0.34 (1)		
H-I	-12461 / 0	-70.5 -70.5	0.36 (1)	3.31	C-Q	-1737 / 0	0.42 (1)		
I-J	-14007 / 0	-70.5 -70.5	0.52 (1)	3.05	R-C	0 / 1677	0.13 (1)		
J-K	0 / 27	-70.5 -70.5	0.03 (1)	10.00	B-R	0 / 11892	0.89 (1)		
S-B	-10369 / 0	0.0 0.0	0.23 (1)	5.73	M-J	0 / 11892	0.89 (1)		
L-J	-10369 / 0	0.0 0.0	0.23 (1)	5.73					
S-R	0 / 0	-745.8 -745.8	0.37 (1)	10.00					
R-Q	0 / 11660	-745.8 -745.8	0.78 (1)	10.00					
Q-P	0 / 10372	-745.8 -745.8	0.79 (1)	10.00					
P-O	0 / 10372	-745.8 -745.8	0.79 (1)	10.00					
O-N	0 / 10372	-745.8 -745.8	0.79 (1)	10.00					
N-M	0 / 11660	-745.8 -745.8	0.78 (1)	10.00					
M-L	0 / 0	-745.8 -745.8	0.37 (1)	10.00					

TOTAL WEIGHT = 3 X 180 = 479 lb [M]

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH. LL = 21.0 PSF
DL = 3.0 PSF

BOT CH. LL = 0.0 PSF
DL = 7.0 PSF

TOTAL LOAD = 31.0 PSF

SPACING = 24.0 IN. C/C

GIRDER TYPE: CstdGirder
START DISTANCE = 0-0
START SPAN CARRIED = 35-1-8
END DISTANCE = 29-0-0
END SPAN CARRIED = 35-1-8
END WALL WIDTH = 0-0
APPLIED TO FRONT SIDE OF BOTTOM CHORD.
- ADDTL LOADS BASED ON 55 % OF GSL.
(DEFINED BY USER)

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

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

(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 (0.97")
CALCULATED VERT. DEFL.(LL)= L/999 (0.17")
ALLOWABLE DEFL.(TL)= L/360 (0.97")
CALCULATED VERT. DEFL.(TL)= L/999 (0.31")

CSI: TC=0.52 (I-J:1), BC=0.79 (N-P:1), WB=0.89 (B-R:1), SS=0.43 (R-S: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 = 0.50

AUTOSOLVE HEELS OFF

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

NAIL VALUES
PLATE GRIP(DRY) SHEAR SECTION (PSI) (PLI) (PLI)
MAX MIN MAX MIN MAX MIN
MT20 618 354 1667 822 2284 1656

PLATE PLACEMENT TOL. = 0.250 Inches

PLATE ROTATION TOL. = 6.0 Deg.

JSI GRIP= 0.89 (B) (INPUT = 0.90)
JSI METAL= 0.80 (B) (INPUT = 1.00)



PLATES (table is in inches)

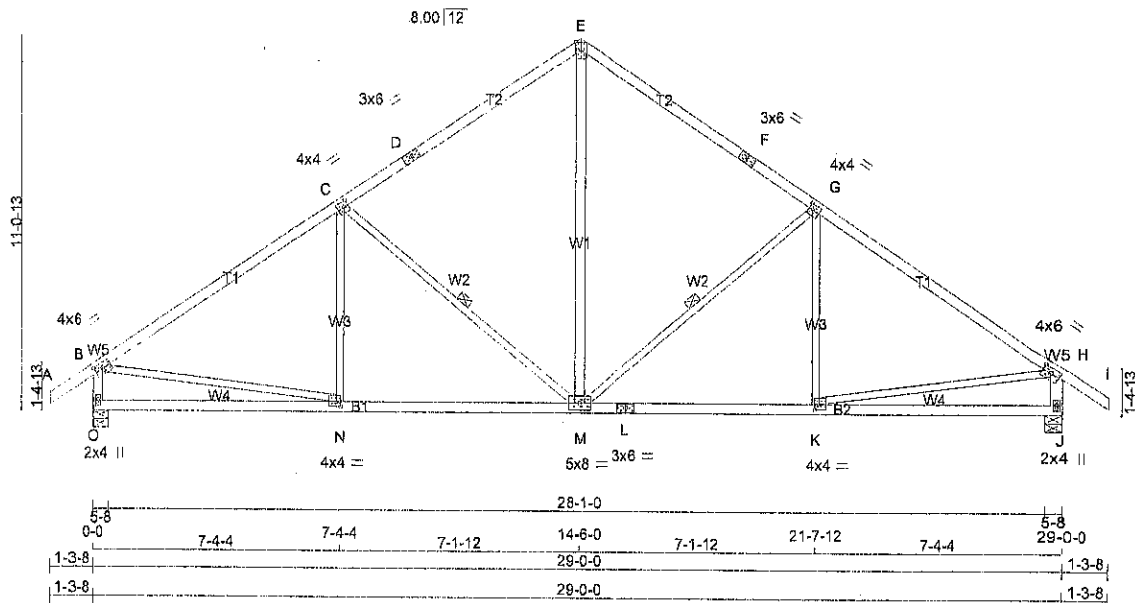
JT	TYPE	PLATES	W	LEN	Y	X
B	TMVW-t	MT20	6.0	9.0	2.00	4.25
C	TMVW-t	MT20	4.0	4.0	2.00	1.50
D	TS-t	MT20	3.0	6.0		
E	TMVW-t	MT20	4.0	6.0	1.75	2.25
F	TTW+p	MT20	5.0	8.0	Edge	
G	TMVW-t	MT20	4.0	6.0	1.75	2.25
H	TS-t	MT20	3.0	6.0		
I	TMVW-t	MT20	4.0	4.0	2.00	1.50
J	TMVW-t	MT20	6.0	9.0	2.00	4.25
L	BMV1-t	MT20	6.0	9.0	Edge	0.50
M	BMVW-t	MT20	6.0	9.0	3.50	2.25
N	BMVW-t	MT20	4.0	6.0		
O	BS-t	MT20	4.0	6.0		
P	BMVWVW-t	MT20	7.0	8.0	3.25	4.00
Q	BMVW-t	MT20	4.0	6.0		
R	BMVW-t	MT20	6.0	9.0	3.50	2.25
S	BMV1-t	MT20	6.0	9.0	5.50	

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

NOTES- (1)
1) Lateral brace(s) shown shall be 1x4 for Part 8 design as per OBC 9.23.13.11, and no less than 2x4 for Part 4 design.



A+15073731(2)



TOTAL WEIGHT = 126 lb
[M][F]

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

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMWW-I	MT20	4.0	6.0	1.75	3.00
C	TMWW-I	MT20	4.0	4.0	2.00	1.50
D	TS-I	MT20	3.0	6.0		
E	TTW+p	MT20	4.0	6.0	Edge	
F	TS-I	MT20	3.0	6.0		
G	TMWW-I	MT20	4.0	4.0	2.00	1.50
H	TMWW-I	MT20	4.0	6.0	1.75	3.00
J	BMV1+p	MT20	2.0	4.0		
K	BMWW-I	MT20	4.0	4.0	1.75	1.50
L	BS-I	MT20	3.0	6.0		
M	BMWW-I	MT20	5.0	8.0		
N	BMWW-I	MT20	4.0	4.0	1.75	1.50
O	BMV1+p	MT20	2.0	4.0		

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

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

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

BEARINGS		FACTORED		MAXIMUM FACTORED		INPUT		REQRD	
JT	GROSS REACTION	VERT	HORZ	DOWN	HORZ	BRG	IN-SX	BRG	IN-SX
O	1372	0	1372	0	0	5-8	1-8		
J	1372	0	1372	0	0	5-8	1-8		

UNFACTORED REACTIONS

1ST LC CASE		MAX./MIN. COMPONENT REACTIONS		FACTORED		MAXIMUM FACTORED		INPUT		REQRD	
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL	BRG	IN-SX	BRG	IN-SX
O	964	666 / 0	0 / 0	0 / 0	0 / 0	298 / 0	0 / 0				
J	964	666 / 0	0 / 0	0 / 0	0 / 0	298 / 0	0 / 0				

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.70FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00FT. OR RIGID CEILING DIRECTLY APPLIED.

1 LATERAL BRACE(S) REQUIRED AT 1/2 LENGTH OF G-M, C-M.
END VERTICAL(S) MUST BE SHEATHED OR HAVE BRACES AS INDICATED IN THE MAX. UNBRACED LENGTH COLUMN OF THE TABLE BELOW

LOADING

TOTAL LOAD CASES: (4)

CHORDS		FACTORED		WEBS		FACTORED	
MEMB.	FORCE (LBS)	VERT. LOAD (PLF)	LC1 MAX	MEMB.	FORCE (LBS)	VERT. LOAD (PLF)	LC1 MAX
FR-TO		FROM	TO	FR-TO		FROM	TO
A-B	0 / 27	-70.5	-70.5	0.09 (1)	10.00	M-E	0 / 779
B-C	-1481 / 0	-70.5	-70.5	0.59 (1)	4.70	M-G	-514 / 0
C-D	-1076 / 0	-70.5	-70.5	0.53 (1)	5.36	K-G	-43 / 103
D-E	-1076 / 0	-70.5	-70.5	0.53 (1)	5.36	C-M	-514 / 0
E-F	-1076 / 0	-70.5	-70.5	0.53 (1)	5.36	N-C	-43 / 103
F-G	-1076 / 0	-70.5	-70.5	0.53 (1)	5.36	B-N	0 / 1274
G-H	-1481 / 0	-70.5	-70.5	0.59 (1)	4.70	K-H	0 / 1274
H-I	0 / 27	-70.5	-70.5	0.09 (1)	10.00		
O-B	-1319 / 0	0.0	0.0	0.14 (1)	7.04		
J-H	-1319 / 0	0.0	0.0	0.14 (1)	7.04		
O-N	0 / 0	-17.5	-17.5	0.22 (4)	10.00		
N-M	0 / 1260	-17.5	-17.5	0.32 (4)	10.00		
M-L	0 / 1260	-17.5	-17.5	0.32 (4)	10.00		
L-K	0 / 1260	-17.5	-17.5	0.32 (4)	10.00		
K-J	0 / 0	-17.5	-17.5	0.22 (4)	10.00		

DESIGN CRITERIA

SPECIFIED LOADS:
TOP CH. LL = 21.0 PSF
DL = 3.0 PSF
BOT CH. LL = 0.0 PSF
DL = 7.0 PSF
TOTAL LOAD = 31.0 PSF

SPACING = 24.0 IN./C

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

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

(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 (0.97")
CALCULATED VERT. DEFL.(LL) = L/999 (0.06")
ALLOWABLE DEFL.(TL)= L/360 (0.97")
CALCULATED VERT. DEFL.(TL) = L/999 (0.12")

CSI: TC=0.59 (G-H:1), BC=0.32 (M-N:4),
WB=0.31 (G-M:1), SS=0.21 (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 = 0.50

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

NAIL VALUES
PLATE GRIP(DRY) SHEAR SECTION
(PSI) (PLI) (PLI)
MAX MIN MAX MIN MAX MIN
MT20 618 354 1667 822 2284 1656

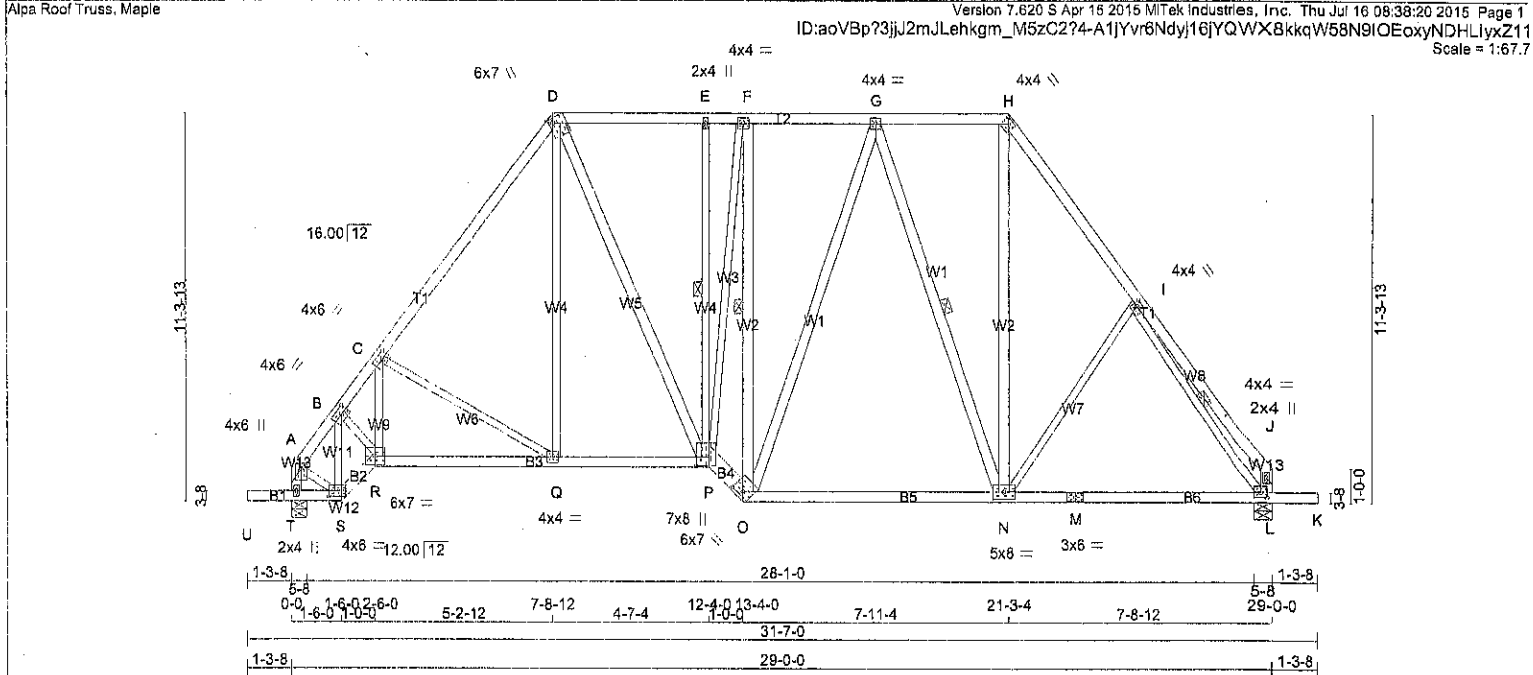
PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.84 (K) (INPUT = 0.90)
JSI METAL= 0.47 (N) (INPUT = 1.00)



A-15073730



LUMBER

CHORDS	SIZE	LUMBER	DESCR.
A - D	2x4	DRY No.2	SPF
D - H	2x4	DRY No.2	SPF
H - J	2x4	DRY No.2	SPF
T - A	2x4	DRY No.2	SPF
L - J	2x4	DRY No.2	SPF
U - S	2x4	DRY No.2	SPF
S - R	2x4	DRY No.2	SPF
R - P	2x4	DRY No.2	SPF
P - O	2x6	DRY No.2	SPF
O - M	2x4	DRY No.2	SPF
M - K	2x4	DRY No.2	SPF
ALL WEBS	2x3	DRY No.2	SPF
EXCEPT			
D - P	2x4	DRY No.2	SPF
O - F	2x4	DRY No.2	SPF
O - G	2x4	DRY No.2	SPF
G - N	2x4	DRY No.2	SPF
N - H	2x4	DRY No.2	SPF

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
A	TMVW+p	MT20	4.0	6.0	2.00	2.00
B	TMVW-i	MT20	4.0	6.0	2.00	2.50
C	TMVW-i	MT20	4.0	6.0	2.00	2.50
D	TTVW+m	MT20	6.0	7.0	Edge	1.50
E	TMVW+w	MT20	2.0	4.0		
F	TMVW-i	MT20	4.0	4.0		
G	TMVW-i	MT20	4.0	4.0		
H	TTVW-h	MT20	4.0	4.0	Edge	
I	TMVW-i	MT20	4.0	4.0	1.75	1.25
J	TMV+p	MT20	2.0	4.0		
L	BMVW-i	MT20	4.0	4.0	1.75	2.00
M	BS-i	MT20	3.0	6.0		
N	BMVW-i	MT20	5.0	8.0		
O	BBVW-h	MT20	6.0	7.0	1.50	3.75
P	BBVW+p	MT20	7.0	8.0	3.00	4.50
Q	BMVW-i	MT20	4.0	4.0		
R	BBVW-i	MT20	6.0	7.0		

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

BEARINGS

	FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG IN-SX	REQD BRG IN-SX
JT	1391	0	5-8	1-8
L	1396	0	5-8	1-8

UNFACTORED REACTIONS

	1ST CASE COMBINED	MAX./MIN. SNOW	MIN. COMPONENT LIVE	PERM. LIVE	WIND	DEAD	SOIL
JT	980	664 / 0	0 / 0	0 / 0	0 / 0	316 / 0	0 / 0
L	977	662 / 0	0 / 0	0 / 0	0 / 0	315 / 0	0 / 0

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 5.07FT.
 MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00FT. OR RIGID CEILING DIRECTLY APPLIED.

1 LATERAL BRACE(S) REQUIRED AT 1/2 LENGTH OF E-P, F-O, G-N, I-L.
 END VERTICAL(S) MUST BE SHEATHED OR HAVE BRACES AS INDICATED IN THE MAX. UNBRACED LENGTH COLUMN OF THE TABLE BELOW

LOADING

TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	VERT. LOAD (PLF)	MAX. FACTORED (LC1) MAX (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. FACTORED (LC1) MAX (LC)	UNBRACED LENGTH (FR-TO)
FR-TO				FR-TO			
A-B	-1117 / 0	-70.5	-70.5 0.08 (1)	5.82	S-B	-901 / 0	0.15 (1)
B-C	-1554 / 0	-70.5	-70.5 0.22 (1)	5.07	B-R	0 / 682	0.15 (1)
C-D	-1237 / 0	-70.5	-70.5 0.26 (1)	5.51	R-C	0 / 123	0.03 (4)
D-E	-916 / 0	-70.5	-70.5 0.19 (1)	6.23	C-Q	-349 / 0	0.23 (1)
E-F	-914 / 0	-70.5	-70.5 0.10 (1)	6.25	Q-D	0 / 284	0.06 (1)
F-G	-844 / 0	-70.5	-70.5 0.13 (1)	6.25	D-P	0 / 454	0.07 (1)
G-H	-874 / 0	-70.5	-70.5 0.12 (1)	6.25	P-E	-226 / 0	0.17 (1)
H-I	-1140 / 0	-70.5	-70.5 0.15 (1)	5.80	E-F	0 / 704	0.18 (1)
I-J	0 / 25	-70.5	-70.5 0.16 (1)	10.00	O-F	-853 / 0	0.57 (1)
T-A	-1216 / 0	0.0	0.0 0.12 (1)	7.26	O-G	0 / 95	0.02 (1)
L-J	-103 / 0	0.0	0.0 0.01 (1)	7.61	G-N	-419 / 0	0.32 (1)
U-T	0 / 0	-88.0	-88.0 0.10 (1)	10.00	N-H	0 / 668	0.11 (1)
T-S	0 / 0	-17.5	-17.5 0.08 (1)	10.00	N-I	-137 / 0	0.13 (1)
S-R	0 / 869	-17.5	-17.5 0.14 (1)	10.00	A-S	0 / 702	0.16 (1)
R-Q	0 / 1022	-17.5	-17.5 0.23 (1)	10.00	I-L	-1343 / 0	0.43 (1)
Q-P	0 / 724	-17.5	-17.5 0.18 (1)	10.00			
P-O	0 / 1178	-17.5	-17.5 0.14 (1)	10.00			
O-N	0 / 812	-17.5	-17.5 0.37 (4)	10.00			
N-M	0 / 746	-17.5	-17.5 0.37 (4)	10.00			
M-L	0 / 746	-17.5	-17.5 0.37 (4)	10.00			
L-K	0 / 0	-88.0	-88.0 0.10 (1)	10.00			

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH. LL = 21.0 PSF
 DL = 3.0 PSF
 BOT CH. LL = 0.0 PSF
 DL = 7.0 PSF
 TOTAL LOAD = 31.0 PSF

SPACING = 24.0 IN. C/C

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

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

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

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 (0.97")
 CALCULATED VERT. DEFL.(LL)= L/ 999 (0.06")
 ALLOWABLE DEFL.(TL)= L/360 (0.97")
 CALCULATED VERT. DEFL.(TL)= L/ 999 (0.14")

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 (0.01")

CS: TC=0.28 (C-D:1), BC=0.37 (N-O:4),
 WB=0.57 (F-O:1), SSI=0.14 (D-E:1)

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

COMPANION LIVE LOAD FACTOR = 0.50

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

NAIL VALUES

PLATE GRIP (DRY)	SHEAR (PSI)	SECTION (PLI)	MAX MIN	MAX MIN	MAX MIN
MT20	816	354	1667	822	2284 1656

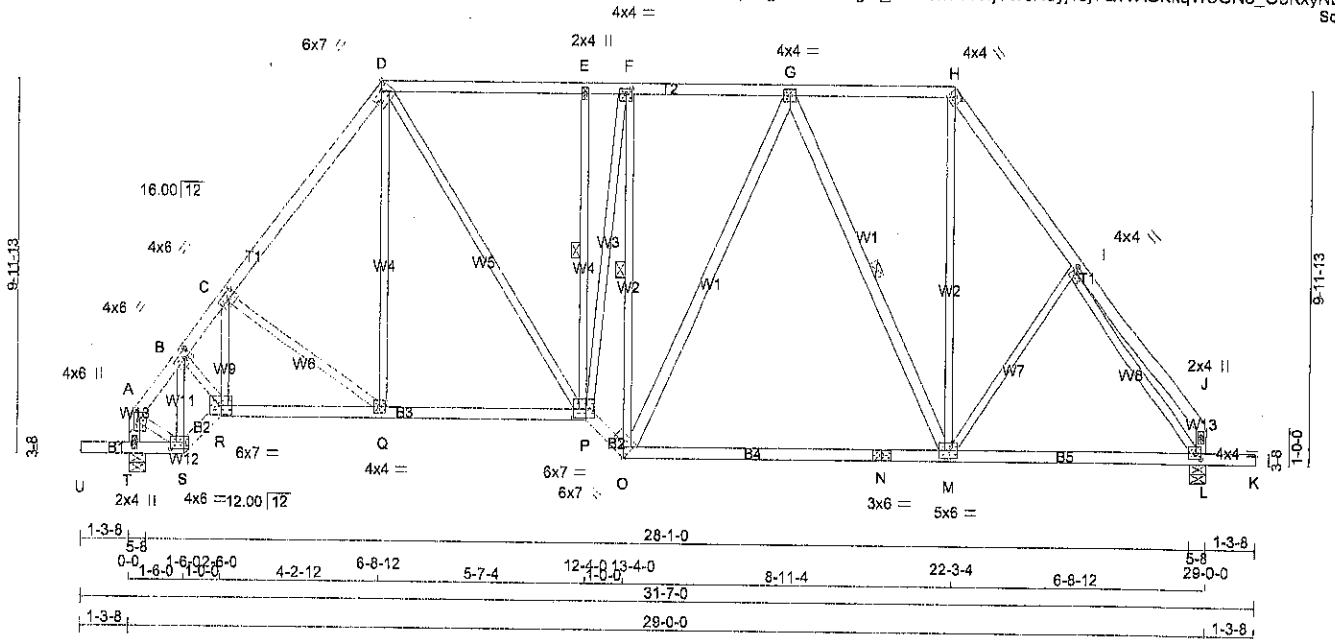
PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.89 (I) (INPUT = 0.90)
 JSI METAL = 0.52 (I) (INPUT = 1.00)



A-11073729



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

DRY: SEASONED LUMBER.

PLATES (table is in inches)				
JT	TYPE	PLATES	W	LEN Y X
A	TMVW+p	MT20	4.0	6.0 2.00 2.00
B	TMVWV-t	MT20	4.0	6.0 2.00 2.50
C	TMVWV-t	MT20	4.0	6.0 2.00 2.50
D	TTVW-h	MT20	6.0	7.0 Edge 2.75
E	TMVW-w	MT20	2.0	4.0
F	TMVWV-t	MT20	4.0	4.0 1.75 1.75
G	TMVWV-t	MT20	4.0	4.0
H	TTVW-h	MT20	4.0	4.0 1.75 2.00
I	TMVWV-t	MT20	4.0	4.0 1.50 1.00
J	TMVW+p	MT20	2.0	4.0
L	BMVWV-t	MT20	4.0	4.0 1.75 1.75
M	BMVWV-t	MT20	5.0	6.0
N	BS-t	MT20	3.0	6.0
O	BBVWV-h	MT20	6.0	7.0 Edge 2.50
P	BBVWV-p	MT20	6.0	7.0 2.75 4.25
Q	BMVWV-t	MT20	4.0	4.0
R	BBVWV-t	MT20	6.0	7.0
S	BBVWV-t	MT20	4.0	6.0 2.00 4.50
T	BMVWV-p	MT20	2.0	4.0

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

BEARINGS		FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	REQD BRG
JT	VERT	HORZ	DOWN	HORZ	UPLIFT
T	1391	0	1391	0	0
L	1386	0	1386	0	0

UNFACTORED REACTIONS		1ST LCASE	MAX/MIN COMPONENT REACTIONS	
JT	COMBINED	SNOW	LIVE	PERM.LIVE
T	980	664 / 0	0 / 0	0 / 0
L	977	662 / 0	0 / 0	0 / 0

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 5.13FT. MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00FT. OR RIGID CEILING DIRECTLY APPLIED.

1 LATERAL BRACE(S) REQUIRED AT 1/2 LENGTH OF E-P, F-O, G-M. END VERTICAL(S) MUST BE SHEATHED OR HAVE BRACES AS INDICATED IN THE MAX. UNBRACED LENGTH COLUMN OF THE TABLE BELOW

LOADING

TOTAL LOAD CASES: (4)

CHORDS		MAX. FACTORED	FACTORED	WEBS	MAX. FACTORED
MEMB.	FORCE (LBS)	VERT. LOAD	CS1 (LC)	MEMB.	FORCE (LBS)
FR-TO				FR-TO	
A-B	-1119 / 0	-70.5	-70.5 0.07 (1)	S-B	-810 / 0
B-C	-1675 / 0	-70.5	-70.5 0.14 (1)	B-R	0 / 635
C-D	-1294 / 0	-70.5	-70.5 0.17 (1)	R-C	0 / 156
D-E	-1060 / 0	-70.5	-70.5 0.27 (1)	C-Q	-297 / 0
E-F	-1066 / 0	-70.5	-70.5 0.18 (1)	Q-D	0 / 272
F-G	-956 / 0	-70.5	-70.5 0.17 (1)	D-P	0 / 546
G-H	-701 / 0	-70.5	-70.5 0.16 (1)	P-E	-328 / 0
H-I	-1183 / 0	-70.5	-70.5 0.11 (1)	E-F	0 / 875
I-J	0 / 20	-70.5	-70.5 0.11 (1)	F-G	-977 / 0
T-A	-1216 / 0	0.0	0.0 0.12 (1)	G-H	0 / 118
L-J	-92 / 0	0.0	0.0 0.01 (1)	H-I	-503 / 0
U-T	0 / 0	-88.0	-88.0 0.10 (1)	I-L	0 / 706
T-S	0 / 0	-17.5	-17.5 0.08 (1)	M-H	-97 / 5
S-R	0 / 877	-17.5	-17.5 0.14 (1)	A-S	0 / 709
R-Q	0 / 998	-17.5	-17.5 0.23 (1)	L-L	-1364 / 0
Q-P	0 / 762	-17.5	-17.5 0.19 (1)		
P-O	0 / 1338	-17.5	-17.5 0.22 (1)		
O-N	0 / 908	-17.5	-17.5 0.39 (4)		
N-M	0 / 908	-17.5	-17.5 0.39 (4)		
M-L	0 / 749	-17.5	-17.5 0.38 (4)		
L-K	0 / 0	-88.0	-88.0 0.10 (1)		

TOTAL WEIGHT = 171 lb [M/F]

DESIGN CRITERIA

SPECIFIED LOADS:
TOP CH. LL = 21.0 PSF
DL = 3.0 PSF
BOT CH. LL = 0.0 PSF
DL = 7.0 PSF
TOTAL LOAD = 31.0 PSF

SPACING = 24.0 IN. C/C

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

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

THIS DESIGN COMPLIES WITH:
- PART 9 OF OBC 2012, BCBC 2012, ABC 2014
- CSA 086-09
- TPC 2011

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 (0.97")
CALCULATED VERT. DEFL.(LL) = L/999 (0.07")
ALLOWABLE DEFL.(TL)= L/360 (0.97")
CALCULATED VERT. DEFL.(TL) = L/999 (0.21")

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 (0.01")

CSI: TC=0.27 (D-E:1), BC=0.39 (M-O:4), WB=0.86 (L:1), SS=0.17 (D-E:1)

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

COMPANION LIVE LOAD FACTOR = 0.50

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

NAIL VALUES
PLATE GRIP(DRY) SHEAR SECTION (PSI) (PLI) (PLI)
MAX MIN MAX MIN MAX MIN
MT20 618 354 1667 822 2284 1658

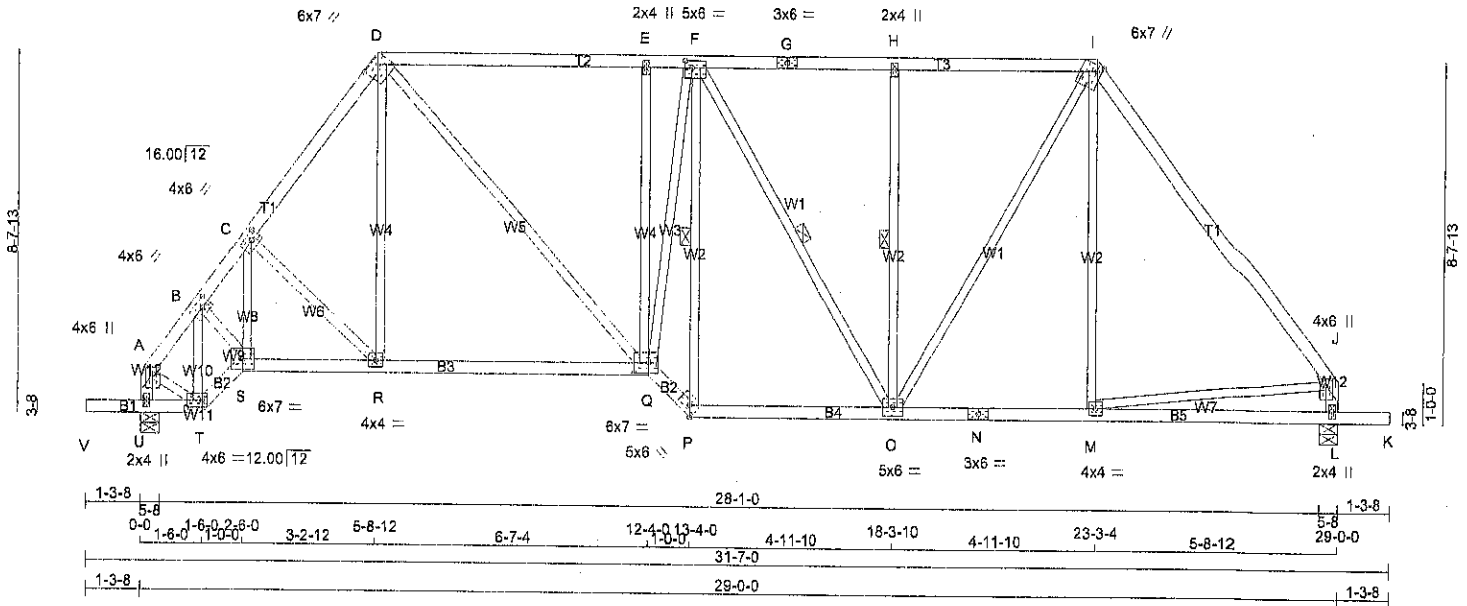
PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.86 (0) (INPUT = 0.80)
JSI METAL= 0.52 (1) (INPUT = 1.00)



A-15073728



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

A - D	2x4	DRY	No.2	SPF
D - G	2x4	DRY	No.2	SPF
G - I	2x4	DRY	No.2	SPF
I - J	2x4	DRY	No.2	SPF
U - A	2x4	DRY	No.2	SPF
L - J	2x4	DRY	No.2	SPF
V - T	2x4	DRY	No.2	SPF
T - S	2x4	DRY	No.2	SPF
S - Q	2x4	DRY	No.2	SPF
Q - P	2x4	DRY	No.2	SPF
P - N	2x4	DRY	No.2	SPF
N - 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
A	TMVW+p	MT20	4.0	6.0	2.00	2.00
B	TMVW-i	MT20	4.0	6.0	2.00	2.50
C	TMVW-i	MT20	4.0	6.0	2.00	2.50
D	TTWW-h	MT20	6.0	7.0	1.75	4.00
E	TMVW-w	MT20	2.0	4.0		
F	TMVW-w	MT20	5.0	6.0	2.00	2.00
G	TS-i	MT20	3.0	6.0		
H	TMVW-w	MT20	2.0	4.0		
I	TTWW+p	MT20	6.0	7.0	Edge 1.50	
J	TMVW+p	MT20	4.0	6.0	2.00	2.00
L	BMV1+p	MT20	2.0	4.0		
M	BMVW-i	MT20	4.0	4.0		
N	BS-i	MT20	3.0	6.0		
O	BMVW-w	MT20	5.0	6.0		
P	BBW-h	MT20	5.0	6.0	Edge 2.50	
Q	BBWVW-p	MT20	6.0	7.0	3.00	4.25
R	BMVW-i	MT20	4.0	4.0		
S	BBWVW-i	MT20	6.0	7.0		
T	BBWVW-i	MT20	4.0	6.0	2.00	4.50
U	BMV1+p	MT20	2.0	4.0		

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

BEARINGS

JT	FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	REQD BRG
U	1391 0	1391 0	5-8	1-8
L	1386 0	1386 0	5-8	1-8

UNFACTORED REACTIONS

JT	1ST LCASE COMBINED	MAX/MIN. SNOW	MIN. LIVE	PERM. LIVE	WIND	DEAD	SOIL
U	980	664 / 0	0 / 0	0 / 0	0 / 0	318 / 0	0 / 0
L	977	662 / 0	0 / 0	0 / 0	0 / 0	315 / 0	0 / 0

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

BRACING
 TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 5.15FT.
 MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00FT. OR RIGID CEILING DIRECTLY APPLIED.

1 LATERAL BRACE(S) REQUIRED AT 1/2 LENGTH OF F-P, F-O, H-O.
 END VERTICAL(S) MUST BE SHEATHED OR HAVE BRACES AS INDICATED IN THE MAX. UNBRACED LENGTH COLUMN OF THE TABLE BELOW

LOADING
 TOTAL LOAD CASES: (4)

CHORDS	MAX. FACTORED	FACTORED	WEBS	MAX. FACTORED
MEMB.	FORCE (LBS)	VERT. LOAD (LBS)	MEMB.	FORCE (LBS)
FR-TO		FROM TO	FR-TO	
A-B	-1120 / 0	-70.5 -70.5 0.06 (1)	T-B	-817 / 0
B-C	-1591 / 0	-70.5 -70.5 0.10 (1)	B-S	0 / 599
C-D	-1357 / 0	-70.5 -70.5 0.12 (1)	S-C	0 / 174
D-E	-1267 / 0	-70.5 -70.5 0.43 (1)	C-R	-251 / 0
E-F	-1261 / 0	-70.5 -70.5 0.37 (1)	R-D	0 / 278
F-G	-1051 / 0	-70.5 -70.5 0.27 (1)	D-Q	0 / 689
G-H	-1051 / 0	-70.5 -70.5 0.27 (1)	Q-E	-429 / 0
H-I	-1051 / 0	-70.5 -70.5 0.27 (1)	E-F	0 / 1088
I-J	-1189 / 0	-70.5 -70.5 0.57 (1)	F-G	-1045 / 0
U-A	-1216 / 0	0.0 0.0 0.12 (1)	G-O	-120 / 0
L-J	-1231 / 0	0.0 0.0 0.12 (1)	O-H	-366 / 0
V-U	0 / 0	-88.0 -88.0 0.10 (1)	H-I	0 / 663
U-T	0 / 0	-17.5 -17.5 0.10 (1)	I-J	0 / 94
T-S	0 / 884	-17.5 -17.5 0.15 (1)	A-T	0 / 714
S-R	0 / 981	-17.5 -17.5 0.25 (1)	M-J	0 / 714
R-Q	0 / 804	-17.5 -17.5 0.23 (1)		
Q-P	0 / 1564	-17.5 -17.5 0.25 (1)		
P-O	0 / 1112	-17.5 -17.5 0.23 (1)		
O-N	0 / 711	-17.5 -17.5 0.19 (1)		
N-M	0 / 711	-17.5 -17.5 0.19 (1)		
M-L	0 / 0	-17.5 -17.5 0.13 (4)		
L-K	0 / 0	-88.0 -88.0 0.10 (1)		

DESIGN CRITERIA

SPECIFIED LOADS:
 TOP CH. LL = 21.0 PSF
 DL = 3.0 PSF
 BOT CH. LL = 0.0 PSF
 DL = 7.0 PSF
 TOTAL LOAD = 31.0 PSF

SPACING = 24.0 IN. G/C

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

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

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

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

(56 % OF 23.0 P.S.F. G.S.I. PLUS 8.4 P.S.F. RAIN LOAD EQUALS 21.0 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = L/360 (0.97")
 CALCULATED VERT. DEFL.(LL) = L/999 (0.07")
 ALLOWABLE DEFL.(TL) = L/360 (0.97")
 CALCULATED VERT. DEFL.(TL) = L/999 (0.14")

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 (0.01")

CSI: TC=0.57 (I-J:1), BC=0.25 (P-Q:1), WB=0.50 (F-P:1), SSI=0.21 (D-E:1)

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

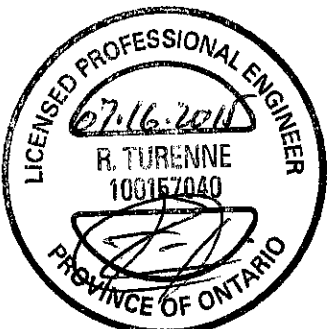
COMPANION LIVE LOAD FACTOR = 0.50

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

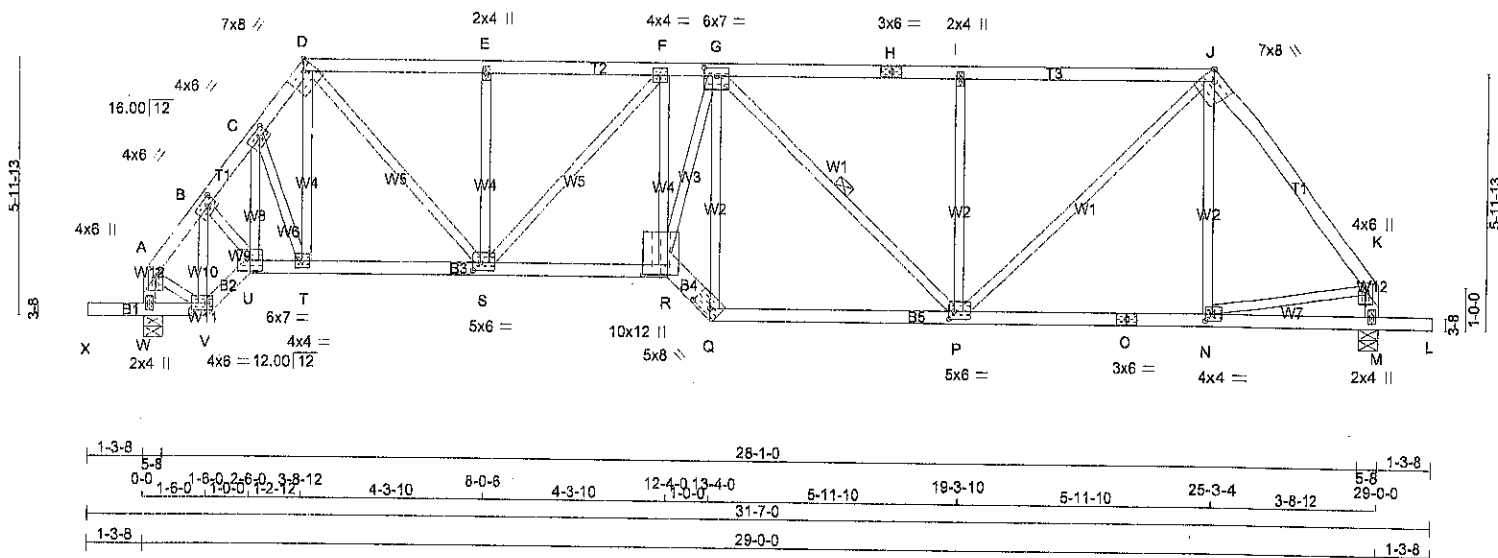
NAIL VALUES
 PLATE GRIP(DRY) SHEAR SECTION (PSI) (PLI) (PLI)
 MAX MIN MAX MIN MAX MIN
 MT20 618 354 1667 822 2284 1856

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

JSI GRIP=0.81 (F) (INPUT = 0.90)
 JSI METAL=0.28 (F) (INPUT = 1.00)



A-15073727



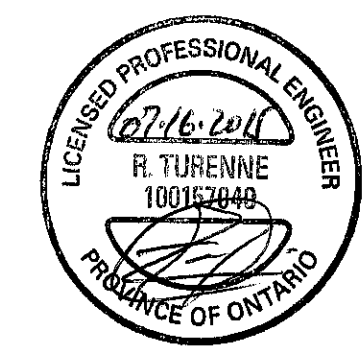
LUMBER
N. L. G. A. RULES

CHORDS	SIZE	LUMBER	DESCR.
A - D	2x4	DRY No.2	SPF
D - H	2x4	DRY No.2	SPF
H - J	2x4	DRY No.2	SPF
J - K	2x4	DRY No.2	SPF
W - A	2x4	DRY No.2	SPF
M - K	2x4	DRY No.2	SPF
X - V	2x4	DRY No.2	SPF
V - U	2x4	DRY No.2	SPF
U - R	2x4	DRY No.2	SPF
R - Q	2x4	DRY No.2	SPF
Q - O	2x4	DRY No.2	SPF
O - L	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
A	TMVW+p	MT20	4.0	6.0	2.00	2.00
B	TMVW-t	MT20	4.0	6.0	2.00	2.50
C	TMVW-t	MT20	4.0	6.0	2.00	2.50
D	TTWW-h	MT20	7.0	8.0	Edge	2.75
E	TMVW+h	MT20	2.0	4.0		
F	TMVW-t	MT20	4.0	4.0		
G	TMVW-t	MT20	6.0	7.0	2.25	3.50
H	TS-t	MT20	3.0	6.0		
I	TMVW+h	MT20	2.0	4.0		
J	TTWW-h	MT20	7.0	8.0	Edge	2.75
K	TMVW+p	MT20	4.0	6.0	2.00	2.00
M	BMV1+p	MT20	2.0	4.0		
N	BMVW-t	MT20	4.0	4.0	2.00	1.75
O	BS-t	MT20	3.0	6.0		
P	BMVW-t	MT20	5.0	6.0	2.25	1.50
Q	BSW-h	MT20	5.0	8.0	1.75	5.00
R	BSW+p	MT20	10.0	12.0	2.75	7.00
S	BMVW-t	MT20	5.0	6.0	2.25	2.00
T	BMVW-t	MT20	4.0	4.0		
U	BSW-h	MT20	6.0	7.0		
V	BSW-h	MT20	4.0	6.0	2.00	4.50



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

BEARINGS

	FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	REQD BRG
	VERT	DOWN	IN-SX	IN-SX
JT	1391	0	5-8	1-8
W	1386	0	5-8	1-8
M	1386	0	5-8	1-8

UNFACTORED REACTIONS

	1ST CASE	MAX/MIN	COMPONENT REACTIONS
	COMBINED	SNOW	LIVE PERM.LIVE WIND DEAD SOIL
JT	980	684 / 0	0 / 0 0 / 0 0 / 0 316 / 0 0 / 0
W	977	662 / 0	0 / 0 0 / 0 0 / 0 315 / 0 0 / 0

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

BRACING
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.57FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00FT. OR RIGID CEILING DIRECTLY APPLIED.

1 LATERAL BRACE(S) REQUIRED AT 1/2 LENGTH OF G-P.
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 LENGTH (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX LENGTH (LC)	
FR-TO				FR-TO			
A-B	-1122 / 0	-70.5 -70.5	0.04 (1)	5.95	V-B	-925 / 0	0.16 (1)
B-C	-1611 / 0	-70.5 -70.5	0.06 (1)	5.18	B-U	0 / 557	0.13 (1)
C-D	-1488 / 0	-70.5 -70.5	0.05 (1)	5.35	U-C	0 / 209	0.05 (1)
D-E	-1602 / 0	-70.5 -70.5	0.24 (1)	4.97	C-T	-218 / 0	0.05 (1)
E-F	-1602 / 0	-70.5 -70.5	0.24 (1)	4.97	T-D	0 / 251	0.06 (1)
F-G	-1958 / 0	-70.5 -70.5	0.24 (1)	4.57	R-G	0 / 1413	0.08 (1)
G-H	-1497 / 0	-70.5 -70.5	0.43 (1)	4.85	R-F	0 / 337	0.10 (1)
H-I	-1497 / 0	-70.5 -70.5	0.43 (1)	4.85	G-P	-225 / 0	0.10 (1)
I-J	-1496 / 0	-70.5 -70.5	0.44 (1)	4.85	P-I	-468 / 0	0.26 (1)
J-K	-1242 / 0	-70.5 -70.5	0.21 (1)	6.54	P-J	0 / 1041	0.23 (1)
W-A	-1216 / 0	0.0	0.12 (1)	7.26	N-J	-28 / 62	0.02 (4)
M-K	-1250 / 0	0.0	0.13 (1)	7.19	A-V	0 / 721	0.16 (1)
X-W	0 / 0	-88.0 -88.0	0.10 (1)	10.00	N-K	0 / 751	0.17 (1)
V-W	0 / 0	-17.5 -17.5	0.10 (1)	10.00	D-S	0 / 1055	0.24 (1)
V-U	0 / 892	-17.5 -17.5	0.15 (1)	10.00	S-E	-345 / 0	0.13 (1)
U-T	0 / 959	-17.5 -17.5	0.19 (1)	10.00	S-F	-524 / 0	0.36 (1)
T-S	0 / 885	-17.5 -17.5	0.18 (1)	10.00			
S-R	0 / 1952	-17.5 -17.5	0.35 (1)	10.00			
R-Q	0 / 2305	-17.5 -17.5	0.27 (1)	10.00			
Q-P	0 / 1659	-17.5 -17.5	0.34 (1)	10.00			
P-O	0 / 740	-17.5 -17.5	0.21 (4)	10.00			
O-N	0 / 740	-17.5 -17.5	0.21 (4)	10.00			
N-M	0 / 0	-17.5 -17.5	0.09 (4)	10.00			
M-L	0 / 0	-88.0 -88.0	0.10 (1)	10.00			

TOTAL WEIGHT = 142 lb [M]

DESIGN CRITERIA

SPECIFIED LOADS:
TOP CH. LL = 21.0 PSF
DL = 3.0 PSF
BOT CH. LL = 0.0 PSF
DL = 7.0 PSF
TOTAL LOAD = 31.0 PSF

SPACING = 24.0 IN./C

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

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

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

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 (0.97")
CALCULATED VERT. DEFL.(LL) = L/999 (0.10")
ALLOWABLE DEFL.(TL) = L/360 (0.97")
CALCULATED VERT. DEFL.(TL) = L/999 (0.18")

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=0.44 (I-J:1), BC=0.35 (R-S:1), WB=0.87 (G-Q:1), SI=0.20 (I-J:1)

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

COMPANION LIVE LOAD FACTOR = 0.50

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

NAIL VALUES
PLATE GRIP(DRY) SHEAR SECTION (PSI) (PLI) (PLI)
MAX MIN MAX MIN MAX MIN
MT20 618 354 1687 822 2284 1656

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

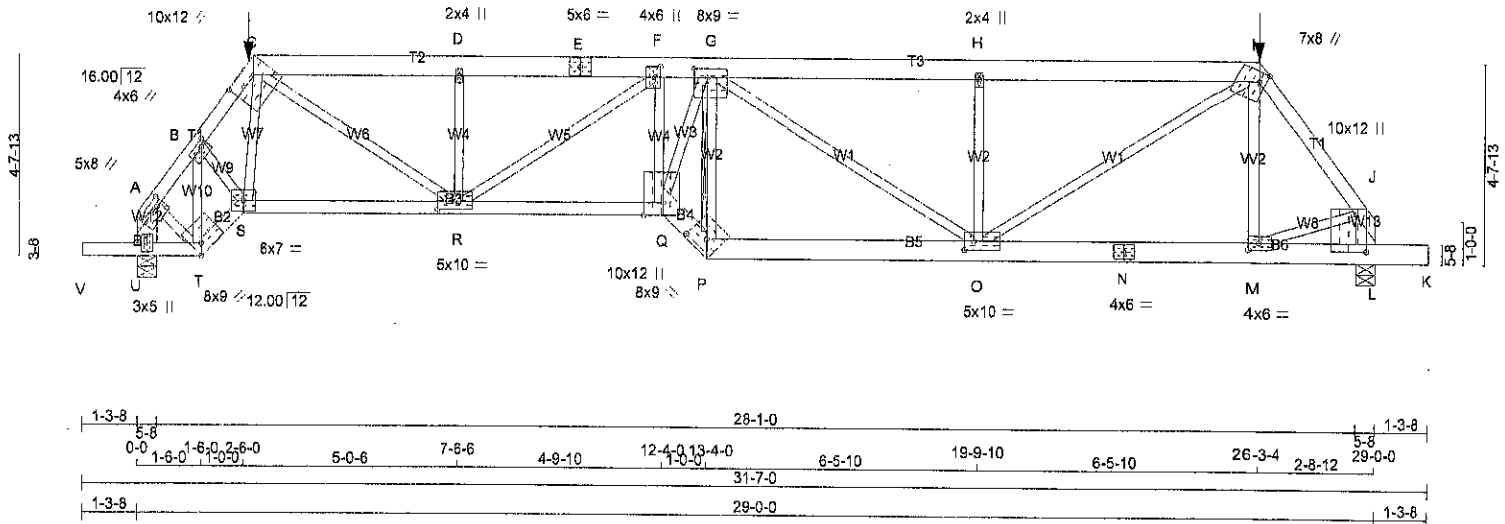
JSI GRIP=0.79 (G) (INPUT = 0.90)
JSI METAL=0.32 (R) (INPUT = 1.00)

A-15073725

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
253448	H01T	1	1	TRUSS DESC.	

Alpa Roof Truss, Maple

Version 7.620 S Apr 15 2015 MITek Industries, Inc. Thu Jul 16 08:37:37 2015 Page 1
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Scale = 1:53.7



LUMBER	N. L. G. A. RULES	CHORDS	SIZE	LUMBER	DESCR.
A - C	2x4	DRY	No.2	SPF	
C - E	2x6	DRY	No.2	SPF	
E - I	2x6	DRY	No.2	SPF	
I - J	2x4	DRY	No.2	SPF	
U - A	2x6	DRY	No.2	SPF	
L - J	2x6	DRY	No.2	SPF	
V - T	2x4	DRY	No.2	SPF	
T - S	2x4	DRY	No.2	SPF	
S - Q	2x4	DRY	2100F 1.8E	SPF	
Q - P	2x6	DRY	No.2	SPF	
P - N	2x6	DRY	No.2	SPF	
N - K	2x6	DRY	No.2	SPF	
ALL WEBS	2x3	DRY	No.2	SPF	
EXCEPT					

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT TYPE	PLATES	W	LEN	Y	X
A	TMVW-t	MT20	5.0	8.0	2.00 2.00
B	TMVW-t	MT20	4.0	6.0	1.50 1.75
C	TTWV-h	MT20	10.0	12.0	3.00 7.50
D	TMVW-w	MT20	2.0	4.0	
E	TS-t	MT20	5.0	6.0	
F	TMVW-t	MT20	4.0	6.0	3.00 1.50
G	TMVW-t	MT20	8.0	9.0	2.50 3.75
H	TMVW-w	MT20	2.0	4.0	
I	TTWV-t	MT20	7.0	8.0	2.75 1.75
J	TMBVW-p	MT20	10.0	12.0	10.25 3.00
M	BMVW-t	MT20	4.0	6.0	2.00 2.50
N	BS-t	MT20	4.0	6.0	
O	BMVW-t	MT20	5.0	10.0	2.50 2.75
P	BBW-h	MT20	8.0	9.0	3.00 5.00
Q	BBWV-p	MT20	10.0	12.0	Edge 5.50
R	BMVW-t	MT20	5.0	10.0	2.25 4.75
S	BBW-t	MT20	6.0	7.0	
T	BBW-h	MT20	8.0	9.0	Edge 2.50
U	BMV-t	MT20	3.0	5.0	

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

JT	FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG	REQD BRG
	VERT	HORZ	DOWN	HORZ		
U	2775	0	2775	0	5-8	3-6
L	2589	0	2589	0	5-8	2-12

UNFACTORED REACTIONS

1ST LCASE		MAX./MIN. COMPONENT REACTIONS					
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
U	1953	1337 / 0	0 / 0	0 / 0	0 / 0	618 / 0	0 / 0
L	1825	1231 / 0	0 / 0	0 / 0	0 / 0	594 / 0	0 / 0

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.30FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00FT. OR RIGID CEILING DIRECTLY APPLIED.

2x4 DRY SPF No.2 T-BRACE REQUIRED AT G-P
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			
MAX. FACTORED		FACTORED		MAX. FACTORED			
MEMB.	FORCE (LBS)	VERT. LOAD (PLF)	LC1 MAX CSI (LC)	MAX UNBRACED LENGTH	MEMB.	FORCE (LBS)	MAX CSI (LC)
FR-TO		FROM TO			FR-TO		
A-B	-2394 / 0	-138.7 -138.7	0.15 (1)	4.28	T-B	-1919 / 0	0.35 (1)
B-C	-3406 / 0	-138.7 -138.7	0.22 (1)	3.60	B-S	0 / 1168	0.29 (1)
C-D	-4498 / 0	-70.5 -70.5	0.25 (1)	3.91	S-C	0 / 648	0.16 (1)
D-E	-4498 / 0	-70.5 -70.5	0.38 (1)	3.76	C-R	0 / 3010	0.75 (1)
E-F	-4498 / 0	-70.5 -70.5	0.38 (1)	3.76	R-D	-444 / 0	0.10 (1)
F-G	-5610 / 0	-138.7 -138.7	0.44 (1)	3.30	R-F	-1312 / 0	0.73 (1)
G-H	-3946 / 0	-138.7 -138.7	0.53 (1)	3.78	F-Q	0 / 1080	0.27 (1)
H-I	-3946 / 0	-138.7 -138.7	0.54 (1)	3.78	Q-G	0 / 4049	1.00 (1)
I-J	-2597 / 0	-70.5 -70.5	0.21 (1)	4.10	P-G	-4475 / 0	0.86 (1)
U-A	-2587 / 0	0.0 0.0	0.18 (1)	6.42	G-O	-617 / 0	0.71 (1)
L-J	-2474 / 0	0.0 0.0	0.17 (1)	6.53	O-H	-999 / 0	0.29 (1)
					O-I	0 / 2849	0.71 (1)
V-U	0 / 0	-88.0 -88.0	0.11 (1)	10.00	M-I	-76 / 110	0.04 (4)
U-T	0 / 0	-34.5 -34.5	0.11 (1)	10.00	A-T	0 / 1534	0.38 (1)
T-S	0 / 1901	-34.5 -34.5	0.34 (1)	10.00	M-J	0 / 1585	0.39 (1)
S-R	0 / 2004	-102.7 -102.7	0.44 (1)	10.00			
R-Q	0 / 5574	-102.7 -102.7	0.73 (1)	10.00			
Q-P	0 / 6283	-34.5 -34.5	0.82 (1)	10.00			
P-O	0 / 4462	-34.5 -34.5	0.71 (1)	10.00			
O-N	0 / 1554	-34.5 -34.5	0.30 (1)	10.00			
N-M	0 / 1554	-34.5 -34.5	0.30 (1)	10.00			
M-L	0 / 0	-34.5 -34.5	0.11 (4)	10.00			
L-K	0 / 0	-88.0 -88.0	0.05 (1)	10.00			

FACTORED CONCENTRATED LOADS (LBS)

JT	LOC.	LC1	MAX-	MAX+	FACE	DIR.	TYPE
C	2-8-12	-139	-139	---	FRONT	VERT	TOTAL
I	26-3-4	-140	-140	---	FRONT	VERT	TOTAL

TOTAL WEIGHT = 151 lb [M]

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 = 3.0 PSF
BOT CH. LL = 0.0 PSF
DL = 7.0 PSF
TOTAL LOAD = 31.0 PSF

SPACING = 24.0 IN. C/C

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

GIRDER TYPE: CPrimeHip
SIDE SETBACK = 2-8-12
END SETBACK = 5-10-8
END WALL WIDTH = 0-0
CORNER FRAMING TYPE: CONVENTIONAL
END JACK TYPE: CONVENTIONAL
APPLIED TO FRONT SIDE
- ADDTL LOADS BASED ON 55 % OF GSL.
LOADS APPLIED TO FIRST 16-8-0 OF SPAN MEASURED FROM THE RIGHT.

GIRDER TYPE: CPrimeHip
SIDE SETBACK = 0-0
END SETBACK = 5-10-8
END WALL WIDTH = 0-0
CORNER FRAMING TYPE: CONVENTIONAL
END JACK TYPE: CONVENTIONAL
APPLIED TO FRONT SIDE
- ADDTL LOADS BASED ON 55 % OF GSL.
LOADS APPLIED TO FIRST 2-6-0 OF SPAN MEASURED FROM THE LEFT.

GIRDER TYPE: CSidGirder
START DISTANCE = 2-6-0
START SPAN CARRIED = 5-10-8
END DISTANCE = 12-4-0
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, NBCC 2010

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

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

(55 % OF 23.0 P.S.F. G.S.L. PLUS 6.4 P.S.F. RAIN LOAD)
A-15075-224
CONTINUED ON PAGE 2



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

HANGERS NOTES
 1) SPECIAL HANGER(S) OR CONNECTION(S) REQUIRED TO SUPPORT CONCENTRATED LOAD(S) 140.2 lbs FACTORED DOWN AT 2-6-3-4, AND 138.6 lbs FACTORED DOWN AT 2-8-12 ON TOP CHORD. DESIGN FOR UNSPECIFIED CONNECTION(S) IS DELEGATED TO THE BUILDING DESIGNER.

NOTES- (1)
 1) Contractor and/or fabricator to verify loadings and dimensions prior to fabrication.

21.0 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL)= L/360 (0.97")
 CALCULATED VERT. DEFL.(LL) = L/ 988 (0.28")
 ALLOWABLE DEFL.(TL)= L/360 (0.87")
 CALCULATED VERT. DEFL.(TL) = L/ 688 (0.50")

CANTILEVER DEFLECTION:
 ALLOWABLE DEFL.(LL)= L/120 (0.19")
 CALCULATED VERT. DEFL.(LL) = L/ 527 (0.03")
 ALLOWABLE DEFL.(TL)= L/120 (0.19")
 CALCULATED VERT. DEFL.(TL) = L/ 287 (0.05")

CSI: TC=0.54 (H-I:1) , BC=0.82 (P-Q:1) , WB=1.00 (G-Q:1) , SSI=0.38 (F-G: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 = 0.50

AUTOSOLVE HEELS OFF

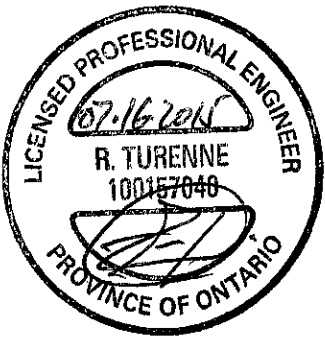
TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT .

NAIL VALUES
 PLATE GRIP(DRY) SHEAR SECTION
 (PSI) (PLI) (PLI)
 MAX MIN MAX MIN MAX MIN
 MT20 618 354 1667 822 2284 1656

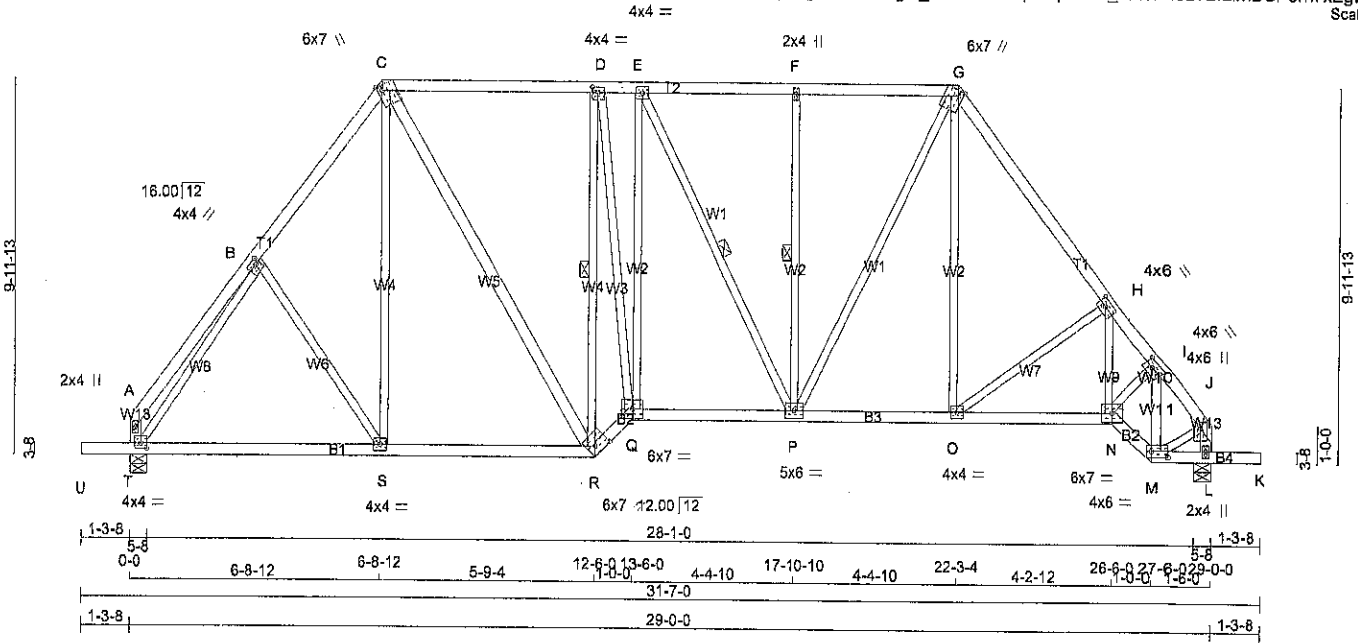
PLATE PLACEMENT TOL. = 0.260 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.90 (C) (INPUT = 0.90)
 JSI METAL= 0.83 (Q) (INPUT = 1.00)



A-15073724(2)



LUMBER			
N. L. G. A. RULES			
CHORDS	SIZE	LUMBER	DESCR.
A - C	2x4	DRY	No.2
C - G	2x4	DRY	No.2
G - J	2x4	DRY	No.2
T - A	2x4	DRY	No.2
L - J	2x4	DRY	No.2
U - R	2x4	DRY	No.2
R - Q	2x4	DRY	No.2
Q - N	2x4	DRY	No.2
N - M	2x4	DRY	No.2
M - K	2x4	DRY	No.2
ALL WEBS EXCEPT C - R	2x3	DRY	No.2

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	4.0	4.0 1.50 1.25
C	TTWW+m	MT20	6.0	7.0 Edge 1.50
D	TMWW-t	MT20	4.0	4.0 1.75 1.75
E	TMWW-t	MT20	4.0	4.0
F	TMW+w	MT20	2.0	4.0
G	TTWW+m	MT20	6.0	7.0 Edge 1.50
H	TMWW-t	MT20	4.0	6.0 2.00 2.50
I	TMWW-t	MT20	4.0	6.0 2.00 2.50
J	TMVW+p	MT20	4.0	6.0 2.00 2.00
L	BMV1+p	MT20	2.0	4.0
M	BBWW-t	MT20	4.0	6.0 2.00 4.50
N	BBWW-t	MT20	6.0	7.0
O	BMWW-t	MT20	4.0	4.0
P	BMWWWW-t	MT20	5.0	6.0
Q	BBWW-t	MT20	6.0	7.0
R	BBWW-h	MT20	6.0	7.0 2.25 4.50
S	BMWW-t	MT20	4.0	4.0
T	BMVW1-t	MT20	4.0	4.0 1.75 2.00

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	
JT	GROSS REACTION	VERT	HORZ	GROSS REACTION	DOWN	HORZ	UPLIFT	BRG	IN-SX
T	1388	0	0	1388	0	0	0	5-8	1-8
L	1391	0	0	1391	0	0	0	5-8	1-8

UNFACTORED REACTIONS		1ST LCASE		MAX./MIN. COMPONENT REACTIONS	
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND
T	977	662 / 0	0 / 0	0 / 0	0 / 0
L	980	664 / 0	0 / 0	0 / 0	0 / 0

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

BRACING
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 5.13FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00FT. OR RIGID CEILING DIRECTLY APPLIED.

1 LATERAL BRACE(S) REQUIRED AT 1/2 LENGTH OF D-R, E-P, F-P.
END VERTICAL(S) MUST BE SHEATHED OR HAVE BRACES AS INDICATED IN THE MAX. UNBRACED LENGTH COLUMN OF THE TABLE BELOW

LOADING
TOTAL LOAD CASES: (4)

CHORDS		FACTORED		WEBS	
MEMB.	FORCE (LBS)	VERT. LOAD (PLF)	MAX. UNBRACED LENGTH (LC)	MEMB.	FORCE (LBS)
FR-TO		FROM TO		FR-TO	
A-B	0 / 21	-70.5 -70.5	0.12 (1)	B-S	-99 / 4
B-C	-1175 / 0	-70.5 -70.5	0.12 (1)	S-C	0 / 213
C-D	-980 / 0	-70.5 -70.5	0.29 (1)	C-R	0 / 523
D-E	-1062 / 0	-70.5 -70.5	0.28 (1)	R-D	-1374 / 0
E-F	-1021 / 0	-70.5 -70.5	0.17 (1)	D-Q	0 / 658
F-G	-1021 / 0	-70.5 -70.5	0.17 (1)	Q-E	0 / 169
G-H	-1290 / 0	-70.5 -70.5	0.17 (1)	E-P	-89 / 0
H-I	-1575 / 0	-70.5 -70.5	0.14 (1)	P-F	-361 / 0
I-J	-1119 / 0	-70.5 -70.5	0.07 (1)	F-G	0 / 578
J-A	-91 / 0	0.0 0.0	0.01 (1)	G-O	0 / 253
L-J	-1216 / 0	0.0 0.0	0.12 (1)	O-H	-300 / 0
U-T	0 / 0	-88.0 -88.0	0.10 (1)	H-N	0 / 160
T-S	0 / 745	-17.5 -17.5	0.26 (4)	N-I	0 / 635
S-R	0 / 690	-17.5 -17.5	0.26 (4)	I-M	-910 / 0
R-Q	0 / 1376	-17.5 -17.5	0.22 (1)	T-B	-1357 / 0
Q-P	0 / 1080	-17.5 -17.5	0.21 (1)	M-J	0 / 709
P-O	0 / 760	-17.5 -17.5	0.16 (1)		
O-N	0 / 998	-17.5 -17.5	0.20 (1)		
N-M	0 / 877	-17.5 -17.5	0.14 (1)		
M-L	0 / 0	-17.5 -17.5	0.08 (1)		
L-K	0 / 0	-88.0 -88.0	0.10 (1)		

TOTAL WEIGHT = 173 lb [M][F]

DESIGN CRITERIA

SPECIFIED LOADS:
TOP CH. LL = 21.0 PSF
DL = 3.0 PSF
BOT CH. LL = 0.0 PSF
DL = 7.0 PSF
TOTAL LOAD = 31.0 PSF

SPACING = 24.0 IN. C/C

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

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

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

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 (0.97")
CALCULATED VERT. DEFL.(LL)= L/999 (0.07")
ALLOWABLE DEFL.(TL)= L/360 (0.97")
CALCULATED VERT. DEFL.(TL)= L/999 (0.13")

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 (0.01")

CSI: TC=0.29 (C-D:1), BC=0.26 (R-S:4),
WB=0.93 (D-R:1), SI=0.22 (D-E:1)

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

COMPANION LIVE LOAD FACTOR = 0.50

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

NAIL VALUES
PLATE GRIP(DRY) SHEAR SECTION
(PSI) (PLI) (PLI)
MAX MIN MAX MIN MAX MIN
MT20 618 354 1667 822 2284 1666

PLATE PLACEMENT TOL. = 0.250 inches

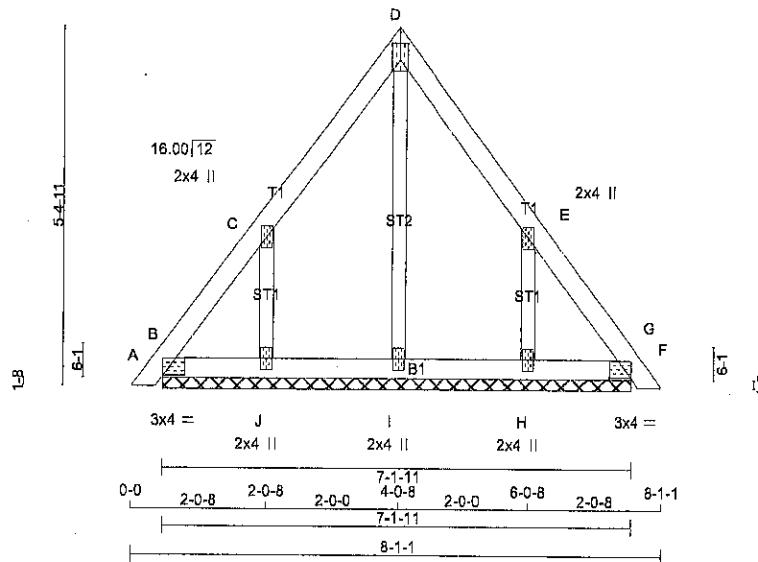
PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.66 (T) (INPUT = 0.90)
JSI METAL= 0.52 (B) (INPUT = 1.00)

A-15073723



Alpa Roof Truss, Maple



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

GABLE STUDS SPACED AT 2-0-0 OC.

PLATES (table is in inches)					
JT TYPE	PLATES	W	LEN	Y	X
B TMB1-I	MT20	3.0	4.0	1.50	2.75
C TMW+w	MT20	2.0	4.0		
D TTW+p	MT20	3.0	5.0	2.00	Edge
E TMW+w	MT20	2.0	4.0		
F TMB1-I	MT20	3.0	4.0	1.50	2.75
H, I, J					
H BMW1+w	MT20	2.0	4.0		

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

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

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

BEARINGS

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 = 6.25FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00FT. OR RIGID CEILING DIRECTLY APPLIED.

LOADING

TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. FACTORED VERT. LOAD (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. FACTORED VERT. LOAD (LC)	UNBRACED LENGTH
FR-TO		FROM	TO	FR-TO			
A-B	0 / 9	-70.5	-70.5	I-D	-58 / 0	0.02 (1)	10.00
B-C	-39 / 0	-70.5	-70.5	J-C	-147 / 0	0.02 (1)	6.25
C-D	-61 / 0	-70.5	-70.5	H-E	-147 / 0	0.02 (1)	6.25
D-E	-61 / 0	-70.5	-70.5				
E-F	-39 / 0	-70.5	-70.5				
F-G	0 / 9	-70.5	-70.5				
B-J	0 / 32	-17.5	-17.5				
J-I	0 / 24	-17.5	-17.5				
I-H	0 / 24	-17.5	-17.5				
H-F	0 / 32	-17.5	-17.5				

TOTAL WEIGHT = 30 lb [M]

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH.	LL	=	21.0	PSF
	DL	=	3.0	PSF
BOT CH.	LL	=	0.0	PSF
	DL	=	7.0	PSF
TOTAL LOAD	=	31.0	PSF	

SPACING = 24.0 IN. C/C

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

THIS DESIGN COMPLIES WITH:

- PART 9 OF OBC 2012, BCBC 2012, ABC 2014
- CSA 086-09
- TPIC 2011

(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 (D-E:1), BC=0.01 (I-J:4), WB=0.02 (E-H:1), SS=0.04 (D-E:1)

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

COMPANION LIVE LOAD FACTOR = 0.60

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

NAIL VALUES

PLATE GRIP(DRY)	SHEAR (PSI)	SECTION (PLI)
		MAX MIN MAX MIN
MT20	618	354 1667 822 2284 1656

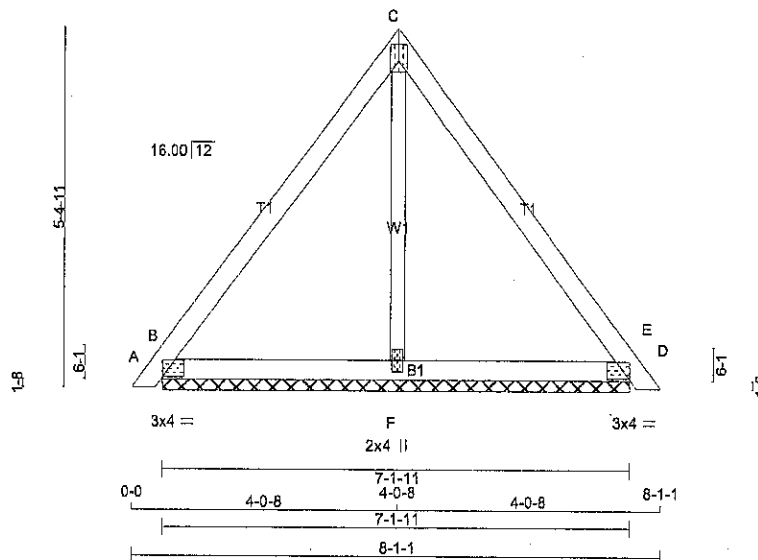
PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.19 (F) (INPUT = 0.90)
JSI METAL= 0.04 (E) (INPUT = 1.00)



A-10073722



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

PLATES (table is in inches)					
JT	TYPE	PLATES	W	LEN	Y X
B	TMB1-l	MT20	3.0	4.0	1.50 2.75
C	TTW+p	MT20	3.0	5.0	2.00 Edge
D	TMB1-l	MT20	3.0	4.0	1.50 2.75
F	BMW1+w	MT20	2.0	4.0	

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

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

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

JT	FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG	REQD BRG
	VERT	HORZ	DOWN	HORZ		
B	243	0	243	0	7-1-11	1-8
D	243	0	243	0	7-1-11	1-8
F	191	0	191	0	7-1-11	1-8

UNFACTORED REACTIONS

JT	1ST LCASE COMBINED	MAX./MIN. COMPONENT REACTIONS					
		SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
B	188	131 / 0	0 / 0	0 / 0	0 / 0	37 / 0	0 / 0
D	188	131 / 0	0 / 0	0 / 0	0 / 0	37 / 0	0 / 0
F	140	67 / 0	0 / 0	0 / 0	0 / 0	72 / 0	0 / 0

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

BRACING

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. FACTORED CSI (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. FACTORED CSI (LC)	
FR-TO		FROM TO	LENGTH	FR-TO			
A-B	0 / 9	-70.5 -70.5	0.01 (1)	10.00	F-C	-113 / 0	0.04 (1)
B-C	-86 / 0	-70.5 -70.5	0.15 (1)	6.25			
C-D	-86 / 0	-70.5 -70.5	0.15 (1)	6.25			
D-E	0 / 9	-70.5 -70.5	0.01 (1)	10.00			
B-F	0 / 51	-17.5 -17.5	0.07 (4)	10.00			
F-D	0 / 51	-17.5 -17.5	0.07 (4)	10.00			

TOTAL WEIGHT = 3 X 27 = 81 lb [M]

DESIGN CRITERIA

SPECIFIED LOADS:
TOP CH. LL = 21.0 PSF
DL = 3.0 PSF
BOT CH. LL = 0.0 PSF
DL = 7.0 PSF
TOTAL LOAD = 31.0 PSF

SPACING = 24.0 IN. C/C

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

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

(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=0.15 (C-D:1), BC=0.07 (D-F:4), WB=0.04 (C-F:1), SSI=0.06 (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 = 0.50

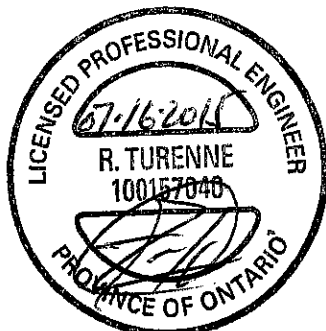
TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

NAIL VALUES
PLATE GRIP(DRY) SHEAR SECTION (PSI) (PLI) (PLI)
MAX MIN MAX MIN MAX MIN
MT20 818 354 1667 622 2284 1656

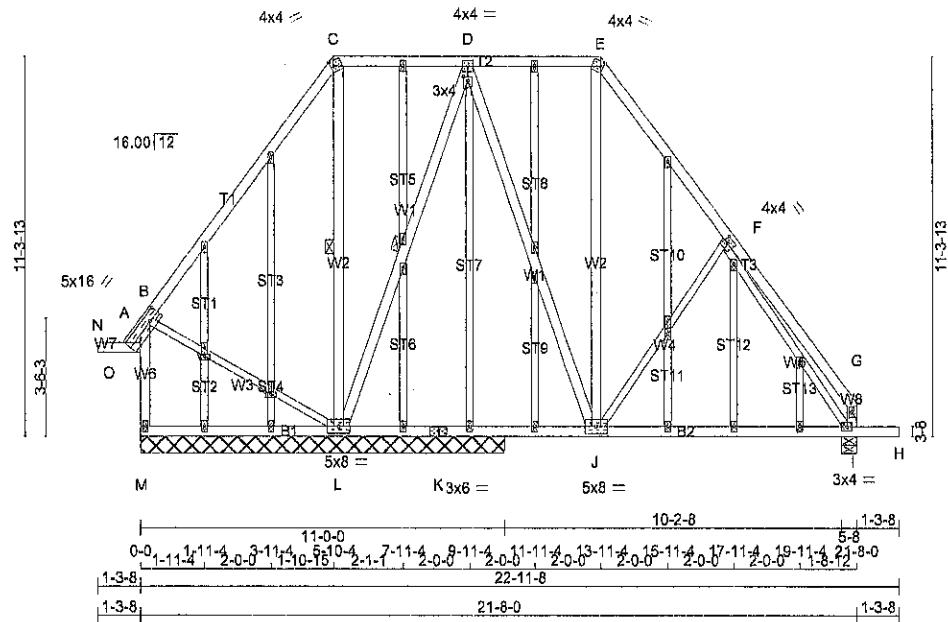
PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 6.0 Deg.

JSI GRIP=0.41 (D) (INPUT = 0.80)
JSI METAL = 0.06 (D) (INPUT = 1.00)



A-15073721



LUMBER

N. L. G. A. RULES

CHORDS	SIZE	LUMBER	DESCR.
A - C	2x4	DRY No.2	SPF
C - E	2x4	DRY No.2	SPF
E - G	2x4	DRY No.2	SPF
M - B	2x4	DRY No.2	SPF
I - G	2x4	DRY No.2	SPF
M - K	2x4	DRY No.2	SPF
K - H	2x4	DRY No.2	SPF
ALL WEBS EXCEPT	2x4	DRY No.2	SPF
J - F	2x3	DRY No.2	SPF
B - L	2x3	DRY No.2	SPF
F - I	2x3	DRY No.2	SPF
ALL GABLE WEBS EXCEPT	2x3	DRY No.2	SPF
ST3	2x4	DRY No.2	SPF

DRY: SEASONED LUMBER.

GABLE STUDS SPACED AT 2-0-0 OC.

PLATES (table is in inches)						
JT	TYPE	PLATES	W	LEN	Y	X
A	TVWW-I	MT20	5.0	16.0	2.50	4.25
C	TTW-m	MT20	4.0	4.0	1.75	1.00
D	TMWW-I	MT20	4.0	4.0		
D	NP+p	MT20	3.0	4.0	1.50	1.50
E	TTW-m	MT20	4.0	4.0	1.75	1.00
F	TMWW-I	MT20	4.0	4.0	2.00	1.75
G	TMV+p	MT20	2.0	4.0		
I	BMVW-I	MT20	3.0	4.0		
J	BMVWW-I	MT20	5.0	8.0		
K	BS-I	MT20	3.0	6.0		
L	BMVWW-I	MT20	5.0	8.0		
M	BMV-I	MT20	2.0	4.0		
P, Q, R, S, T, U, V, W, X, Y, Z, AA, AB, AC, AD, AE, AF, AG, AH, AI, AJ, AK						
P	NP+w	MT20	2.0	4.0		
Y	NP-p	MT20	2.0	4.0	0.75	2.00

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

BEARINGS

JT	FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG IN-SX	REQRD BRG IN-SX
	VERT	HORZ	DOWN	HORZ		
M	349	0	349	0	11-0-0 (9-0-0) 1-8	
L	926	0	926	0	11-0-0 (9-0-0) 1-8	
I	637	0	637	0	5-8	1-8

VALUE IN PARENTHESIS INDICATES EFFECTIVE BEARING LENGTH

UNFACTORED REACTIONS

JT	1ST LCASE COMBINED		MAX./MIN. COMPONENT REACTIONS		WIND	DEAD	SOIL
	SNOW	LIVE	PERM.LIVE				
M	241	191 / 0	0 / 0	0 / 0	0 / 0	50 / 0	0 / 0
L	863	392 / 0	0 / 0	0 / 0	0 / 0	271 / 0	0 / 0
I	590	400 / 0	0 / 0	0 / 0	0 / 0	190 / 0	0 / 0

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 8.25FT.

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

MAX. UNBRACED INTERIOR CHORD LENGTH = 10.00FT.

1 LATERAL BRACE(S) REQUIRED AT 1/2 LENGTH OF C-L, D-L.

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

LOADING

TOTAL LOAD CASES: (4)

MEMB.	CHORDS MAX. FACTORED FORCE (LBS)		FACTORED VERT. LOAD (PLF)		WEBS MAX. FACTORED FORCE (LBS)		MAX. FACTORED CSI (LC)	
	FR-TO	FROM TO	FR-TO	FROM TO	FR-TO	FROM TO	FR-TO	FROM TO
A-B	-213 / 0	-70.5	-70.5	0.28 (1)	6.25	L-C	-234 / 0	0.16 (1)
B-C	-95 / 0	-70.5	-70.5	0.30 (1)	6.25	L-D	-574 / 0	0.45 (1)
C-D	-33 / 2	-78.0	-78.0	0.16 (1)	6.25	D-J	0 / 162	0.03 (1)
D-E	-279 / 0	-78.0	-78.0	0.16 (1)	6.25	J-E	0 / 145	0.02 (1)
E-F	-490 / 0	-70.5	-70.5	0.14 (1)	6.25	J-F	-175 / 0	0.17 (1)
F-G	0 / 26	-70.5	-70.5	0.17 (1)	10.00	B-L	-44 / 0	0.04 (1)
M-O	-314 / 0	0.0	0.0	0.16 (1)	7.81	F-I	-682 / 0	0.60 (1)
O-B	-371 / 0	0.0	0.0	0.15 (1)	7.81	N-A	0 / 0	0.00 (1)
I-G	-101 / 0	0.0	0.0	0.01 (1)	7.81	A-O	0 / 377	0.06 (1)
M-L	0 / 76	-17.5	-17.5	0.19 (4)	10.00			
L-K	0 / 225	-17.5	-17.5	0.28 (4)	10.00			
K-J	0 / 225	-17.5	-17.5	0.28 (4)	10.00			
J-I	0 / 379	-17.5	-17.5	0.29 (4)	10.00			
I-H	0 / 0	-88.0	-88.0	0.10 (1)	10.00			

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH. LL = 21.0 PSF

DL = 3.0 PSF

BOT CH. LL = 0.0 PSF

DL = 7.0 PSF

TOTAL LOAD = 31.0 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, NBCC 2010

THIS DESIGN COMPLIES WITH:

- PART 9 OF OBC 2012, BCBC 2012, ABC 2014
- CSA 086-09
- TPIC 2011

(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/380 (0.62")

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

ALLOWABLE DEFL.(TL)= L/360 (0.52")

CALCULATED VERT. DEFL.(TL)= L/999 (0.09")

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 (0.01")

CSI: TC=0.30 (B-C:1), BC=0.29 (I-J:4), WB=0.60 (F-I:1), SSI=0.25 (A-B:1)

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

COMPANION LIVE LOAD FACTOR = 0.50

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

NAIL VALUES

PLATE	GRIP(DRY)	SHEAR	SECTION
(PSI)	(PLI)	(PLI)	
MAX	MIN	MAX	MIN
MT20	615	354	1657
	822	2284	1656

PLATE PLACEMENT TOL. = 0.250 inches

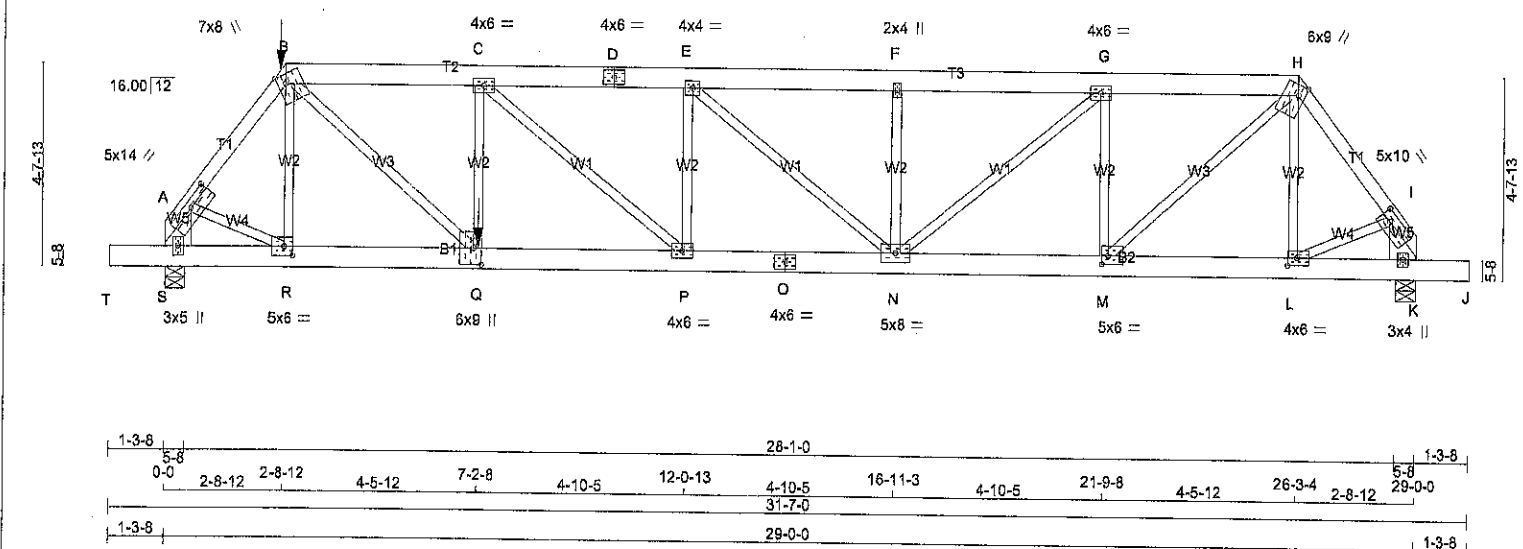
PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.87 (D) (INPUT = 0.90)

JSI METAL= 0.28 (F) (INPUT = 1.00)



A-15073720



LUMBER

N. L. G. A. RULES

CHORDS	SIZE	DRY	LUMBER	DESCR.
A - B	2x4	DRY	No.2	SPF
B - D	2x6	DRY	No.2	SPF
D - H	2x6	DRY	No.2	SPF
H - I	2x4	DRY	No.2	SPF
S - A	2x8	DRY	No.2	SPF
K - I	2x8	DRY	No.2	SPF
T - O	2x8	DRY	No.2	SPF
O - J	2x6	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	5.0	14.0	1.75	6.76
B	TTWW+m	MT20	7.0	8.0	2.50	2.25
C	TMWW-t	MT20	4.0	6.0		
D	TS-t	MT20	4.0	6.0		
E	TMWW-t	MT20	4.0	4.0		
F	TMW+w	MT20	2.0	4.0		
G	TMWW-t	MT20	4.0	6.0		
H	TTWW+m	MT20	6.0	9.0	2.75	1.75
I	TMVW-t	MT20	5.0	10.0	2.25	2.75
K	BMV1+p	MT20	3.0	4.0		
L	BMWW-t	MT20	4.0	6.0	2.00	2.75
M	BMWW-t	MT20	5.0	6.0	2.25	1.75
N	BMWW-t	MT20	5.0	8.0		
O	BS-t	MT20	4.0	6.0		
P	BMWW-t	MT20	4.0	6.0		
Q	BMWW-t	MT20	6.0	9.0	4.50	2.25
R	BMWW-t	MT20	5.0	6.0	2.50	2.50
S	BMV1+p	MT20	3.0	5.0		

HANGERS NOTES

1)

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

BEARINGS

	FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	REQD BRG
JT	VERT	HORZ	DOWN	HORZ
S	3051	0	3051	0
K	1858	0	1858	0

UNFACTORED REACTIONS

JT	1ST LCASE	MAX/MIN. COMPONENT REACTIONS	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
S	2133	1543 / 0	0 / 0	0 / 0	0 / 0	0 / 0	590 / 0	0 / 0
K	1303	918 / 0	0 / 0	0 / 0	0 / 0	0 / 0	385 / 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 = 3.76FT.

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS	MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. FACTORED HORIZ. LOAD (LC)	UNBRACED LENGTH	WEBS	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. FACTORED HORIZ. LOAD (LC)
FR-TO	A-B	-3088 / 0	-70.5	-70.5 0.26 (1)	3.76	FR-TO	R-B	-155 / 74	0.05 (1)
	B-C	-4094 / 0	-138.7	-138.7 0.34 (1)	3.96		B-Q	0 / 3076	0.78 (1)
	C-D	-4063 / 0	-70.5	-70.5 0.20 (1)	4.13		Q-C	-478 / 0	0.14 (1)
	D-E	-4063 / 0	-70.5	-70.5 0.20 (1)	4.13		C-P	-42 / 62	0.03 (1)
	E-F	-3511 / 0	-70.5	-70.5 0.17 (1)	4.42		P-E	0 / 137	0.03 (1)
	F-G	-3511 / 0	-70.5	-70.5 0.17 (1)	4.42		E-N	-729 / 0	0.62 (1)
	G-H	-2484 / 0	-70.5	-70.5 0.13 (1)	5.11		N-F	-337 / 0	0.10 (1)
	H-I	-1789 / 0	-70.5	-70.5 0.15 (1)	4.84		F-G	0 / 1356	0.34 (1)
	S-A	-2923 / 0	0.0	0.0 0.16 (1)	6.82		M-G	-1241 / 0	0.36 (1)
	K-I	-1734 / 0	0.0	0.0 0.09 (1)	7.81		M-H	0 / 1936	0.48 (1)
	T-S	0 / 0	-88.0	-88.0 0.05 (1)	10.00		L-H	-122 / 20	0.04 (1)
	S-R	0 / 0	-34.5	-34.5 0.07 (1)	10.00		A-R	0 / 1884	0.47 (1)
	R-Q	0 / 1847	-34.5	-34.5 0.32 (1)	10.00		L-I	0 / 1092	0.27 (1)
	Q-P	0 / 4094	-17.5	-17.5 0.61 (1)	10.00				
	P-O	0 / 4063	-17.5	-17.5 0.57 (1)	10.00				
	O-N	0 / 4063	-17.5	-17.5 0.57 (1)	10.00				
	N-M	0 / 2484	-17.5	-17.5 0.37 (1)	10.00				
	M-L	0 / 1069	-17.5	-17.5 0.17 (1)	10.00				
	L-K	0 / 0	-17.5	-17.5 0.03 (4)	10.00				
	K-J	0 / 0	-88.0	-88.0 0.05 (1)	10.00				

FACTORED CONCENTRATED LOADS (LBS)

JT	LOC.	LC1	MAX.	FACE	DIR.	TYPE
B	2-8-12	-140	-140	---	FRONT	VERT
Q	7-2-8	-1564	-1564	---	FRONT	VERT

TOTAL WEIGHT = 2 X 160 = 320 lb

DESIGN CRITERIA

*** SPECIAL LOADS ANALYSIS ***

GEOMETRY AND/OR BASIC LOADS CHANGED BY USER.

LOADS WERE DERIVED FROM USER INPUT

NO FURTHER MODIFICATIONS WERE MADE

SPECIFIED LOADS:

TOP CH. LL = 21.0 PSF

DL = 3.0 PSF

BOT CH. LL = 0.0 PSF

DL = 7.0 PSF

TOTAL LOAD = 31.0 PSF

SPACING = 24.0 IN. C/C

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

GIRDER TYPE: CprimeHip

SIDE SETBACK = 2-8-12

END SETBACK = 6-10-8

END WALL WIDTH = 0-0

CORNER FRAMING TYPE: CONVENTIONAL

END JACK TYPE: CONVENTIONAL

APPLIED TO FRONT SIDE

- ADD'L LOADS BASED ON 55 % OF GSL

LOADS APPLIED TO FIRST 7-2-8 OF SPAN

MEASURED FROM THE LEFT.

*** NON STANDARD GIRDER ***

ADD'L USER-DEFINED LOADS APPLIED TO ALL LOAD CASES.

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

THIS DESIGN COMPLIES WITH:

- PART 9 OF OBC 2012, BCBC 2012, ABC 2014

- CSA 086-08

- TPIC 2011

(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 (0.97")

CALCULATED VERT. DEFL.(LL) = L/999 (0.15")

ALLOWABLE DEFL.(TL)= L/360 (0.97")

CALCULATED VERT. DEFL.(TL) = L/999 (0.25")

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=0.34 (B-C:1), BC=0.61 (P-Q:1), WB=0.76 (B-Q:1), SSI=0.22 (B-C:1)

DOL LUMBER=1.00 NAIL=1.00 LS BEND=1.00

COMP=1.00 SHEAR=1.00 TENS=1.00

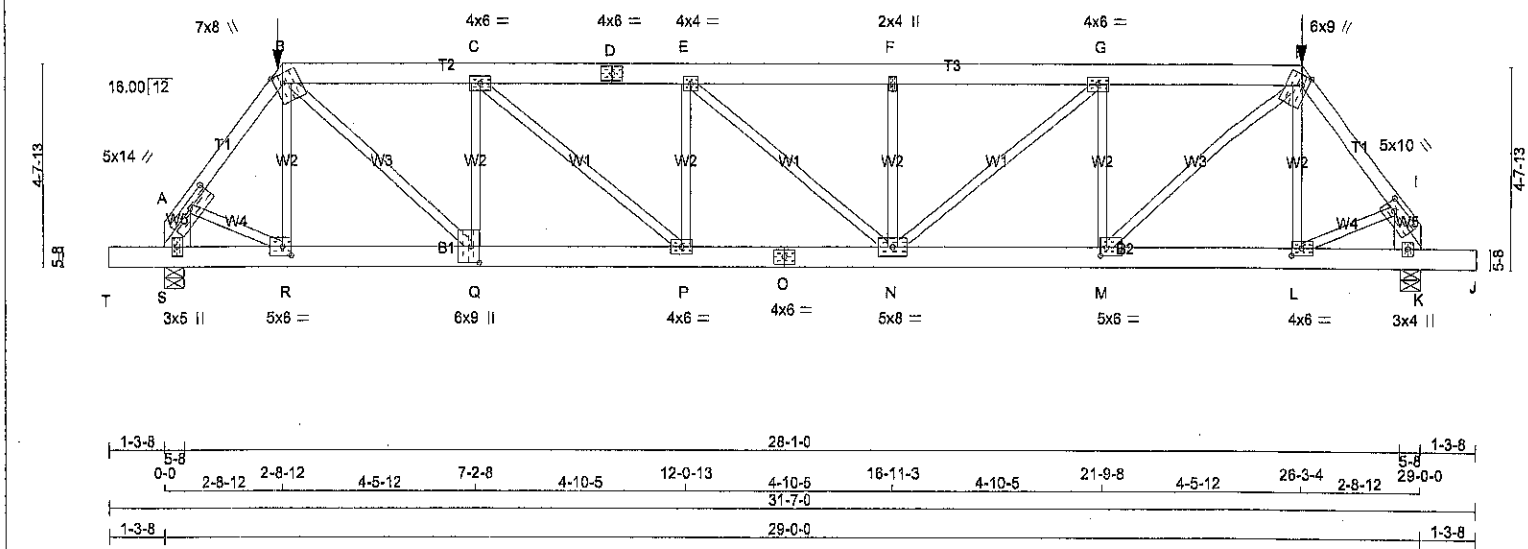
COMPANION LIVE LOAD FACTOR = 0.50

AUTOSOLVE HEELS OFF

A-15073718

CONTINUED ON PAGE 2

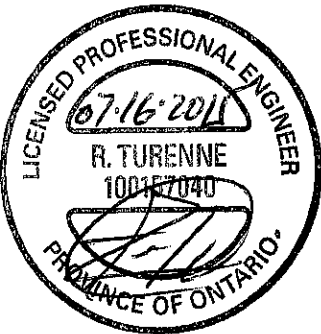




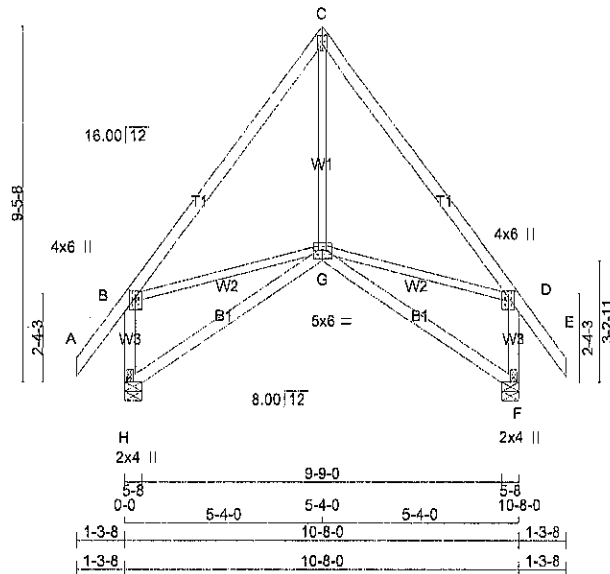
HANGERS NOTES
1) SPECIAL HANGER(S) OR CONNECTION(S) REQUIRED TO SUPPORT CONCENTRATED LOAD(S) 140.2 lbs FACTORED DOWN AT 26-3-4, AND 140.2 lbs FACTORED DOWN AT 2-8-12 ON TOP CHORD. DESIGN FOR UNSPECIFIED CONNECTION(S) IS DELEGATED TO THE BUILDING DESIGNER.

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

JSI GRIP= 0.89 (M) (INPUT = 0.90)
JSI METAL= 0.93 (C) (INPUT = 1.00)



A-15073717(2)



TOTAL WEIGHT = 6 X 59 = 351 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 - G	2x4	DRY	No.2	SPF
G - F	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	2.00
C	TYW+p	MT20	3.0	5.0	2.00	Edge
D	TMVW+p	MT20	4.0	6.0	2.00	2.00
F	BMV1+p	MT20	2.0	4.0	Edge	
G	BBWWW-p	MT20	5.0	6.0	2.75	3.00
H	BMV1+p	MT20	2.0	4.0	Edge	

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

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

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

BEARINGS		FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	REQRD BRG
JT		VERT	HORZ	DOWN	UP
H	568	0	568	0	5-8
F	568	0	568	0	5-8

UNFACTORED REACTIONS

JT	1ST LCASE	MAX/MIN	COMPONENT REACTIONS	PERM/LIVE	WIND	DEAD	SOIL
H	398	283 / 0	0 / 0	0 / 0	0 / 0	115 / 0	0 / 0
F	398	283 / 0	0 / 0	0 / 0	0 / 0	115 / 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 = 6.25FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00FT. OR RIGID CEILING DIRECTLY APPLIED.

LOADING

TOTAL LOAD CASES: (4)

CHORDS		WEBS	
MEMB.	MAX. FACTORED FORCE (LBS)	MEMB.	MAX. FACTORED FORCE (LBS)
FR-TO		FR-TO	
A-B	0 / 40	G-C	0 / 197
B-C	-358 / 0	B-G	0 / 221
C-D	-358 / 0	G-D	0 / 221
D-E	0 / 40		
H-B	-522 / 0		
F-D	-522 / 0		
H-G	0 / 0		
G-F	0 / 0		

DESIGN CRITERIA

SPECIFIED LOADS:
TOP CH. LL = 21.0 PSF
DL = 3.0 PSF
BOT CH. LL = 0.0 PSF
DL = 7.0 PSF
TOTAL LOAD = 31.0 PSF

SPACING = 24.0 IN. C/C

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

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

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

ALLOWABLE DEFL.(LL) = L/360 (0.36")
CALCULATED VERT. DEFL.(LL) = L/999 (0.01")
ALLOWABLE DEFL.(TL) = L/360 (0.36")
CALCULATED VERT. DEFL.(TL) = L/999 (0.05")

CSI: TC=0.26 (C-D:1), BC=0.15 (G-H:4),
WB=0.05 (D-G:1), SSI=0.09 (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 = 0.50

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

NAIL VALUES
PLATE GRIP(DRY) SHEAR SECTION
(PSI) (PLI) (PLI)
MAX MIN MAX MIN MAX MIN
MT20 618 354 1667 822 2284 1656

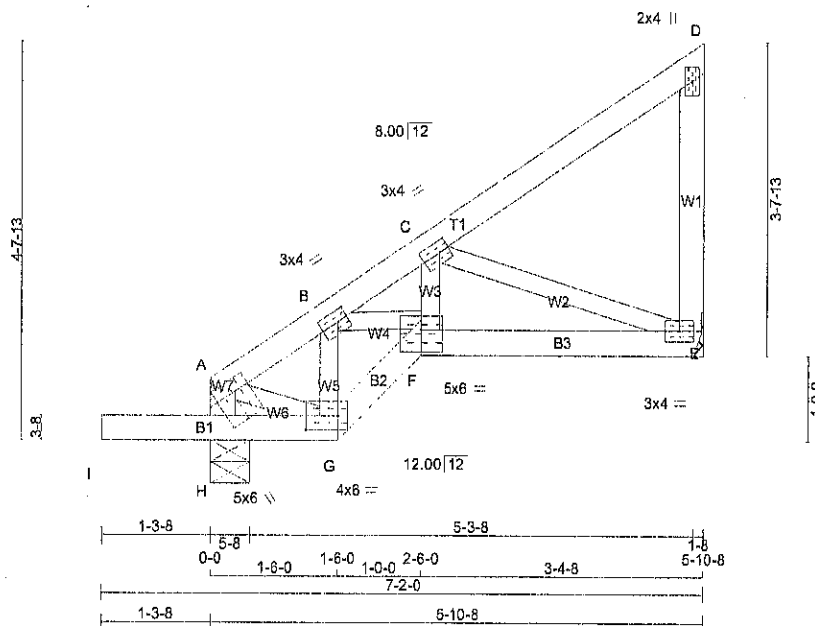
PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.66 (H) (INPUT = 0.90)
JSI METAL= 0.12 (H) (INPUT = 1.00)



A-15073702



LUMBER		N. L. G. A. RULES		LUMBER		DESCR.	
CHORDS	SIZE						
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
B	TMWW-I	MT20	3.0	4.0	1.50	1.50
C	TMWW-I	MT20	3.0	4.0	1.50	1.50
D	TMV+p	MT20	2.0	4.0		
E	BMVW-I	MT20	3.0	4.0		
F	BBWW-I	MT20	5.0	6.0	3.00	3.00
G	BBWW-I	MT20	4.0	6.0	2.00	4.50
H	TMBMVW1*+h	MT20	5.0	6.0	1.75	Edge

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

NOTES - (1)
1) Lateral brace(s) shown shall be 1x4 for Part 9 design as per OBC 9.23, 13.11, and no less than 2x4 for Part 4 design.

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

BEARINGS		FACTORED		MAXIMUM FACTORED		INPUT	REQRD
JT	VERT	GROSS REACTION	DOWN	HORZ	UPLIFT	BRG	BRG
H	384	0	384	0	0	5-8	1-8
E	246	0	246	0	0	HANGER BY OTHERS	
MIN. SEAT SIZE: 1-8							

UNFACTORED REACTIONS		MAX/MIN. COMPONENT REACTIONS					
JT	COMBINED	1ST LOASE	SNOW	LIVE	PERM. LIVE	WIND	DEAD
H	271	183 / 0	0 / 0	0 / 0	0 / 0	87 / 0	0 / 0
E	173	117 / 0	0 / 0	0 / 0	0 / 0	56 / 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.

LOADING		CHORDS		WEBS	
TOTAL LOAD CASES: (4)		MAX. FACTORED	FACTORED	MAX. FACTORED	FACTORED
MEMB.	FORCE (LBS)	VERT. LOAD (PLF)	LC1 MAX	MEMB.	FORCE (LBS)
FR-TO		FROM	TO	FR-TO	
H-A	-209 / 0	0.0	0.0 0.02 (1)	A-G	0 / 172
A-B	-203 / 0	-70.5	-70.5 0.02 (1)	G-B	-219 / 0
B-C	-403 / 0	-70.5	-70.5 0.06 (1)	B-F	0 / 221
C-D	-10 / 0	-70.5	-70.5 0.08 (1)	F-C	0 / 131
E-D	-97 / 0	0.0	0.0 0.02 (1)	C-E	-370 / 0
I-H	0 / 0	-88.0	-88.0 0.10 (1)		
H-G	0 / 0	-17.5	-17.5 0.08 (1)		
G-F	0 / 211	-17.5	-17.5 0.04 (1)		
F-E	0 / 349	-17.5	-17.5 0.09 (1)		

TOTAL WEIGHT = 4 X 27 = 107 lb [M/F]

DESIGN CRITERIA	
SPECIFIED LOADS:	
TOP CH.	LL = 21.0 PSF
	DL = 3.0 PSF
BOT CH.	LL = 0.0 PSF
	DL = 7.0 PSF
TOTAL LOAD	= 31.0 PSF

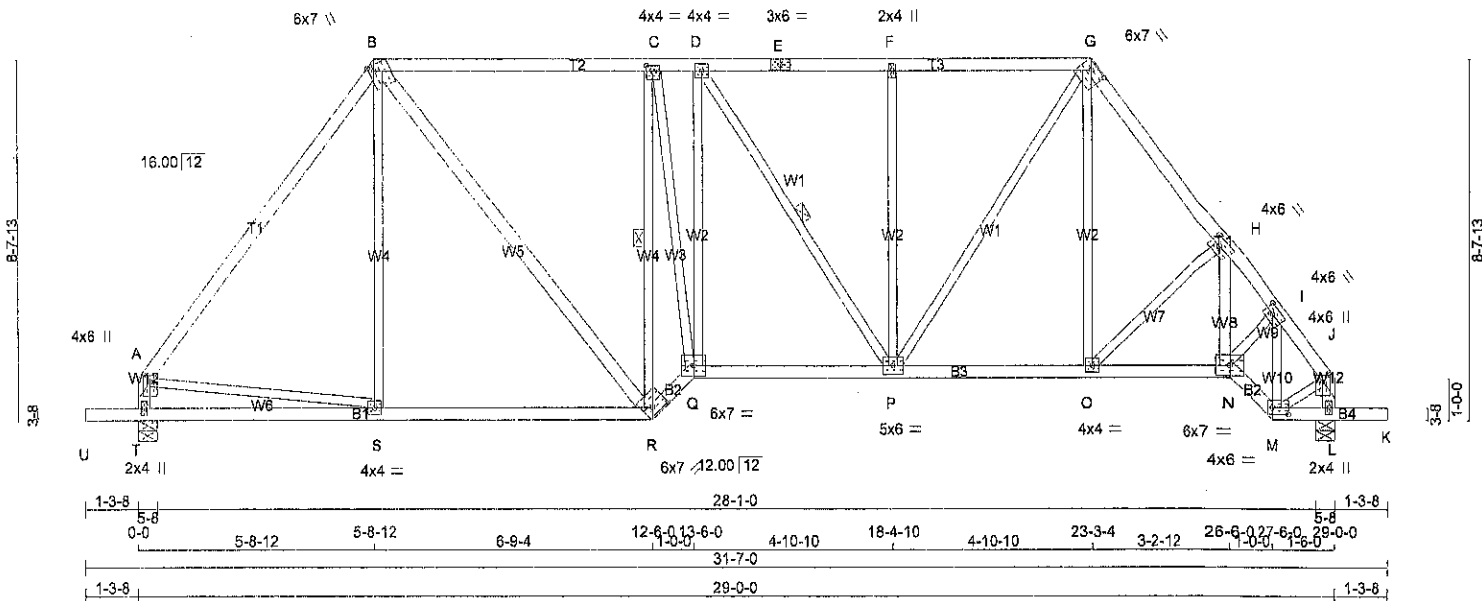
SPACING = 24.0 IN. C/C
THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBCC 2010
THIS DESIGN COMPLIES WITH:
- PART 9 OF OBC 2012, BCBC 2012, ABC 2014
- CSA 086-09
- TPIC 2011

DESIGN ASSUMPTIONS
- OVERHANG NOT TO BE ALTERED OR CUT OFF.
(55 % OF 23.0 P.S.F. G.S.L. PLUS
6.4 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 (0.01")
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 (0.01")
ALLOWABLE DEFL.(TL)= L/120 (0.19")
CALCULATED VERT. DEFL.(TL) = L/999 (0.01")
CSI: TC=0.08 (C-D:1), BC=0.10 (H-I:1), WB=0.08 (C-E:1), SSI=0.09 (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 = 0.50

TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.
NAIL VALUES
PLATE GRIP(DRY) SHEAR SECTION (PSI) (PLI) (PLI)
MAX MIN MAX MIN MAX MIN
MT20 618 354 1887 822 2284 1656
PLATE PLACEMENT TOL. = 0.250 inches
PLATE ROTATION TOL. = 5.0 Deg.
JSI GRIP= 0.53 (E) (INPUT = 0.90)
JSI METAL= 0.13 (E) (INPUT = 1.00)



A-15073693



TOTAL WEIGHT = 158 lb [M]

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

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
A	TMVW+p	MT20	4.0	6.0	2.00	2.00
B	TTWW+m	MT20	6.0	7.0	Edge	1.50
C	TMVW-t	MT20	4.0	4.0	1.50	1.75
D	TMVW-t	MT20	4.0	4.0		
E	TS-t	MT20	3.0	6.0		
F	TMVW+w	MT20	2.0	4.0		
G	TTWW-h	MT20	6.0	7.0	1.75	4.00
H	TMVW-t	MT20	4.0	6.0	2.00	2.50
I	TMVW-t	MT20	4.0	6.0	2.00	2.50
J	TMVW+p	MT20	4.0	6.0	2.00	2.00
L	BMV1+p	MT20	2.0	4.0		
M	BBWW-t	MT20	4.0	6.0	2.00	4.50
N	BBWW-t	MT20	6.0	7.0		
O	BMWW-t	MT20	4.0	4.0		
P	BMWW-t	MT20	5.0	6.0		
Q	BBWW-t	MT20	6.0	7.0		
R	BBWW-h	MT20	6.0	7.0	2.00	4.25
S	BMWW-t	MT20	4.0	4.0		
T	BMV1+p	MT20	2.0	4.0		

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

FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG		REQRD BRG	
JT	VERT	JT	HORZ	JT	IN-SX	JT	IN-SX
T	1386	0	1386	0	5-8	1-8	
L	1391	0	1391	0	5-8	1-8	

UNFACTORED REACTIONS

1ST LCASE		MAX./MIN. COMPONENT REACTIONS					
JT	COMBINED	JT	SNOW	JT	LIVE	JT	PERM.LIVE
T	977	662 / 0	0 / 0	0 / 0	0 / 0	315 / 0	0 / 0
L	980	664 / 0	0 / 0	0 / 0	0 / 0	316 / 0	0 / 0

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.94FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00FT. OR RIGID CEILING DIRECTLY APPLIED.

1 LATERAL BRACE(S) REQUIRED AT 1/2 LENGTH OF C-R, D-P.
END VERTICAL(S) MUST BE SHEATHED OR HAVE BRACES AS INDICATED IN THE MAX. UNBRACED LENGTH COLUMN OF THE TABLE BELOW

LOADING

TOTAL LOAD CASES: (4)

CHORDS		FACTORED		WEBS		FACTORED	
MEMB.	FORCE (LBS)	VERT. LOAD (PLF)	MAX. CSI (LC)	MEMB.	FORCE (LBS)	MAX. CSI (LC)	
FR-TO		FROM TO		FR-TO			
A-B	-1194 / 0	-70.5 -70.5	0.57 (1)	S-B	0 / 127	0.04 (4)	
B-C	-1125 / 0	-70.5 -70.5	0.57 (1)	B-R	0 / 649	0.10 (1)	
C-D	-1258 / 0	-70.5 -70.5	0.50 (1)	R-C	-1586 / 0	0.76 (1)	
D-E	-1191 / 0	-70.5 -70.5	0.29 (1)	C-Q	0 / 951	0.21 (1)	
E-F	-1191 / 0	-70.5 -70.5	0.29 (1)	Q-D	0 / 249	0.06 (1)	
F-G	-1190 / 0	-70.5 -70.5	0.29 (1)	D-P	-119 / 0	0.06 (1)	
G-H	-1348 / 0	-70.5 -70.5	0.11 (1)	P-F	-400 / 0	0.43 (1)	
H-I	-1591 / 0	-70.5 -70.5	0.10 (1)	P-G	0 / 707	0.16 (1)	
I-J	-1120 / 0	-70.5 -70.5	0.06 (1)	O-G	0 / 246	0.06 (1)	
T-A	-1236 / 0	0.0 0.0	0.12 (1)	O-H	-258 / 0	0.09 (1)	
L-J	-1216 / 0	0.0 0.0	0.12 (1)	N-H	0 / 188	0.04 (1)	
				N-I	0 / 600	0.13 (1)	
U-T	0 / 0	-88.0 -88.0	0.10 (1)	M-I	-917 / 0	0.16 (1)	
T-S	0 / 0	-17.5 -17.5	0.20 (4)	A-S	0 / 718	0.16 (1)	
S-R	0 / 714	-17.5 -17.5	0.26 (4)	M-J	0 / 714	0.16 (1)	
R-Q	0 / 1615	-17.5 -17.5	0.26 (1)				
Q-P	0 / 1258	-17.5 -17.5	0.26 (1)				
P-O	0 / 798	-17.5 -17.5	0.18 (1)				
O-N	0 / 981	-17.5 -17.5	0.19 (1)				
N-M	0 / 884	-17.5 -17.5	0.15 (1)				
M-L	0 / 0	-17.5 -17.5	0.10 (1)				
L-K	0 / 0	-88.0 -88.0	0.10 (1)				

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH.	LL	=	21.0	PSF
DL	=	3.0	PSF	
BOT CH.	LL	=	0.0	PSF
DL	=	7.0	PSF	
TOTAL LOAD	=	31.0	PSF	

SPACING = 24.0 IN./C

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

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

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

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 (0.97")
CALCULATED VERT. DEFL.(LL)= L/ 999 (0.08")
ALLOWABLE DEFL.(TL)= L/360 (0.97")
CALCULATED VERT. DEFL.(TL)= L/ 999 (0.15")

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 (0.01")

CSI: TC=0.57 (A-B:1), BC=0.28 (Q-R:1),
WB=0.76 (C-R:1), SS=0.28 (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 = 0.50

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

NAIL VALUES
PLATE GRIP(DRY) SHEAR SECTION
(PSI) (PLI) (PLI)
MAX MIN MAX MIN MAX MIN
MT20 618 354 1867 622 2284 1658

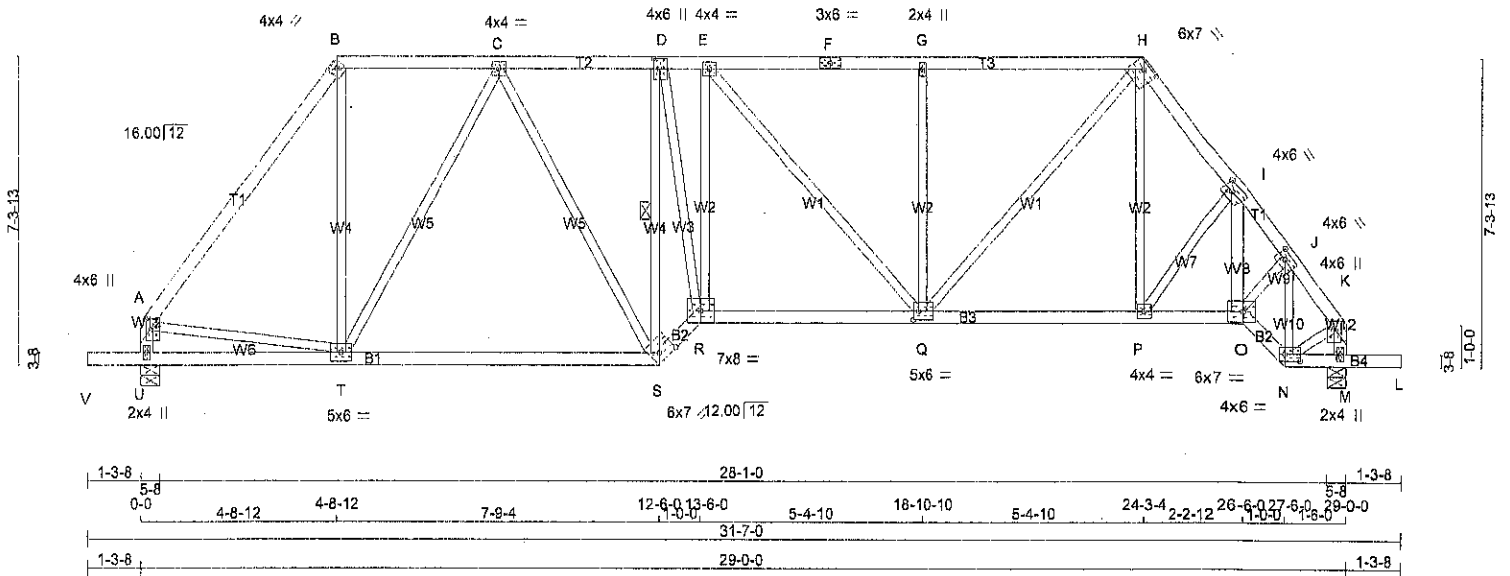
PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.81 (C) (INPUT = 0.90)
JSI METAL= 0.27 (A) (INPUT = 1.00)

A-14073692





LUMBER				DESCR.	
N. L. G. A. RULES					
CHORDS	SIZE	LUMBER		SPF	
A - B	2x4	DRY	No.2	SPF	
B - F	2x4	DRY	No.2	SPF	
F - H	2x4	DRY	No.2	SPF	
H - K	2x4	DRY	No.2	SPF	
U - A	2x4	DRY	No.2	SPF	
M - K	2x4	DRY	No.2	SPF	
V - S	2x4	DRY	No.2	SPF	
S - R	2x4	DRY	No.2	SPF	
R - O	2x4	DRY	No.2	SPF	
O - N	2x4	DRY	No.2	SPF	
N - L	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
A	TMVW+p	MT20	4.0	6.0	2.00 2.00
B	TTW-h	MT20	4.0	4.0	1.75 2.00
C	TMWW-l	MT20	4.0	4.0	
D	TMWW-h	MT20	4.0	6.0	3.00 1.75
E	TMWW-l	MT20	4.0	4.0	
F	TS-l	MT20	3.0	6.0	
G	TMW+w	MT20	2.0	4.0	
H	TTW-h	MT20	6.0	7.0	1.50 3.75
I	TMWW-l	MT20	4.0	6.0	2.00 2.50
J	TMWW-l	MT20	4.0	6.0	2.00 2.50
K	TMVW+p	MT20	4.0	6.0	2.00 2.00
M	BMV1+p	MT20	2.0	4.0	
N	BBWW-l	MT20	4.0	6.0	2.00 4.50
O	BBWW-l	MT20	6.0	7.0	
P	BMWW-l	MT20	4.0	4.0	
Q	BMWW-h	MT20	5.0	6.0	2.50 1.50
R	BBWW-l	MT20	7.0	8.0	
S	BBWW-h	MT20	6.0	7.0	2.25 4.50
T	BMWW-h	MT20	5.0	6.0	
U	BMV1+p	MT20	2.0	4.0	

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

FACTORED		MAXIMUM FACTORED		INPUT		REQRD	
GROSS REACTION		GROSS REACTION		BRG		BRG	
JT	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX
U	1386	0	1386	0	0	5-8	1-8
M	1391	0	1391	0	0	5-8	1-8

UNFACTORED REACTIONS		MAX./MIN. COMPONENT REACTIONS					
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
U	977	662 / 0	0 / 0	0 / 0	0 / 0	315 / 0	0 / 0
M	980	664 / 0	0 / 0	0 / 0	0 / 0	316 / 0	0 / 0

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 5.03FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00FT. OR RIGID CEILING DIRECTLY APPLIED.

1 LATERAL BRACE(S) REQUIRED AT 1/2 LENGTH OF D-S.
END VERTICAL(S) MUST BE SHEATHED OR HAVE BRACES AS INDICATED IN THE MAX. UNBRACED LENGTH COLUMN OF THE TABLE BELOW

LOADING

TOTAL LOAD CASES: (4)

CHORDS		FACTORED		WEBS		MAX. FACTORED	
MEMB.	FORCE (LBS)	VERT. LOAD	LC1 MAX (PLF)	MAX UNBRACED LENGTH	MEMB.	FORCE (LBS)	MAX CSI (LC)
FR-TO		FROM	TO		FR-TO		
A-B	-1232 / 0	-70.5	-70.5 0.36 (1)	5.41	T-B	0 / 706	0.18 (1)
B-C	-752 / 0	-70.5	-70.5 0.17 (1)	6.25	T-C	-752 / 0	1.00 (1)
C-D	-1300 / 0	-70.5	-70.5 0.19 (1)	5.45	C-S	0 / 404	0.09 (1)
D-E	-1639 / 0	-70.5	-70.5 0.12 (1)	5.19	S-D	-1606 / 0	0.54 (1)
E-F	-1431 / 0	-70.5	-70.5 0.36 (1)	5.03	D-R	0 / 1452	0.33 (1)
F-G	-1431 / 0	-70.5	-70.5 0.36 (1)	5.03	R-E	-59 / 24	0.04 (1)
G-H	-1430 / 0	-70.5	-70.5 0.36 (1)	5.04	E-Q	-165 / 0	0.22 (1)
H-I	-1414 / 0	-70.5	-70.5 0.07 (1)	5.43	Q-G	-435 / 0	0.28 (1)
I-J	-1603 / 0	-70.5	-70.5 0.05 (1)	5.19	Q-H	0 / 883	0.20 (1)
J-K	-1121 / 0	-70.5	-70.5 0.05 (1)	5.94	P-H	0 / 249	0.06 (1)
U-A	-1249 / 0	0.0	0.0 0.13 (1)	7.19	P-I	-228 / 0	0.06 (1)
M-K	-1216 / 0	0.0	0.0 0.12 (1)	7.26	O-I	0 / 199	0.04 (1)
					O-J	0 / 574	0.13 (1)
V-U	0 / 0	-88.0	-88.0 0.10 (1)	10.00	N-J	-921 / 0	0.16 (1)
U-T	0 / 0	-17.5	-17.5 0.22 (4)	10.00	A-T	0 / 741	0.17 (1)
T-S	0 / 1104	-17.5	-17.5 0.31 (4)	10.00	N-K	0 / 718	0.16 (1)
S-R	0 / 1866	-17.5	-17.5 0.30 (1)	10.00			
R-Q	0 / 1540	-17.5	-17.5 0.31 (1)	10.00			
Q-P	0 / 840	-17.5	-17.5 0.20 (1)	10.00			
P-O	0 / 988	-17.5	-17.5 0.20 (1)	10.00			
O-N	0 / 888	-17.5	-17.5 0.15 (1)	10.00			
N-M	0 / 0	-17.5	-17.5 0.10 (1)	10.00			
M-L	0 / 0	-88.0	-88.0 0.10 (1)	10.00			

TOTAL WEIGHT = 148 lb [M]

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH.	LL	=	21.0	PSF
	DL	=	3.0	PSF
BOT CH.	LL	=	0.0	PSF
	DL	=	7.0	PSF
TOTAL LOAD		=	31.0	PSF

SPACING = 24.0 IN./C

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

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

THIS DESIGN COMPLIES WITH:

- PART 9 OF OBC 2012, BCBC 2012, ABC 2014
- CSA 086-09
- TPIC 2011

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 (0.97")
CALCULATED VERT. DEFL.(LL)= L/999 (0.10")
ALLOWABLE DEFL.(TL)= L/360 (0.97")
CALCULATED VERT. DEFL.(TL)= L/999 (0.19")

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=0.36 (G-H:1), BC=0.31 (Q-R:1),
WB=1.00 (C-T:1), SS=0.18 (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 = 0.60

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

NAIL VALUES

PLATE GRIP(DRY)	SHEAR	SECTION
(PSI)	(PL)	(PL)
MAX MIN	MAX MIN	MAX MIN
MT20	618 354	1667 822 2284 1656

PLATE PLACEMENT TOL. = 0.250 Inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.78 (D) (INPUT = 0.90)
JSI METAL= 0.35 (B) (INPUT = 1.00)

A-ND13691

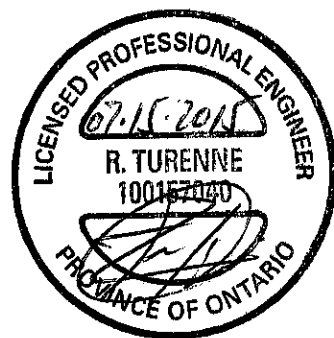




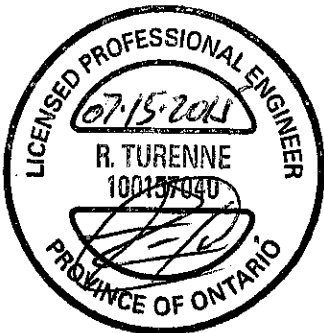
PLATES (table is in inches)						
J	TYPE	PLATES	W	LEN	Y	X
A	TMWV-t	MT20	5.0	10.0	2.25	2.75
B	TTWV+tm	MT20	6.0	9.0	2.75	1.75
C	TMW+w	MT20	2.0	4.0		
D	TS-t	MT20	4.0	6.0		
E	TMWVVW+t	MT20	7.0	8.0	2.25	2.00
F	TMWV-t	MT20	4.0	4.0		
G	TMW+w	MT20	2.0	4.0		
H	TTWV+h	MT20	6.0	12.0	3.25	2.50
I	TMWV-t	MT20	4.0	6.0	1.50	1.75
J	TMWV-t	MT20	5.0	8.0	2.25	2.00
L	BMV1+p	MT20	3.0	4.0		
M	BBWV-t	MT20	5.0	8.0	1.75	6.25
N	BBWV-h	MT20	6.0	7.0	3.25	4.25
O	BMWVVW-t	MT20	5.0	10.0	2.25	2.25
P	BBWV+p	MT20	8.0	12.0	5.00	4.00
Q	BBW-h	MT20	8.0	9.0	3.25	4.50
R	BMWVVW-t	MT20	5.0	10.0	2.25	4.00
S	BMWV-t	MT20	4.0	6.0	2.00	2.75
T	BMV1+p	MT20	3.0	4.0		

JT	LOC.	LC1	MAX-	MAX+	FACE	DIR.	TYPE
B	2-8-12	-140	-140	--	FRONT	VERT	TOTAL
H	26-3-4	-139	-139	--	FRONT	VERT	TOTAL

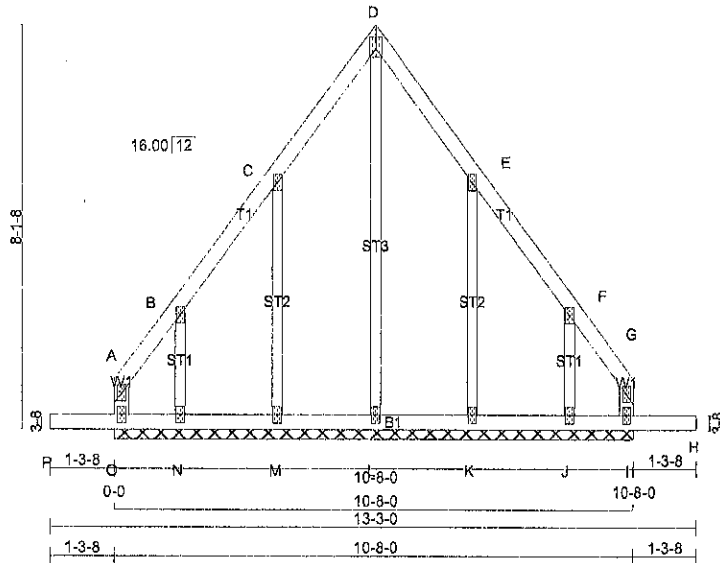
CANTILEVER DEFLECTION:
ALLOWABLE DEFL.(LL)= $L/120$ (0.19")
CALCULATED VERT. DEFL.(LL) = $L/742$ (0.02")



HANGERS NOTES 1) SPECIAL HANGER(S) OR CONNECTION(S) REQUIRED TO SUPPORT CONCENTRATED LOAD(S) 140.2 lbs FACTORED DOWN AT 2-8-12, AND 138.7 lbs FACTORED DOWN AT 28-3-4 ON TOP CHORD. DESIGN FOR UNSPECIFIED CONNECTION(S) IS DELEGATED TO THE BUILDING DESIGNER. NOTES- (1) 1) Lateral brace(s) shown shall be 1x4 for Part 9 design as per OBC 9.23.13.11, and no less than 2x4 for Part 4 design.	CALCULATED VERT. DEFL.(TL) = L/397 (0.04") CSI: TC=0.43 (F-G:1), BC=0.79 (P-Q:1), WS=0.88 (H-O:1), SSI=0.28 (N-C: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 = 0.50 AUTOSOLVE HEELS OFF TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT. NAIL VALUES <table border="1"> <thead> <tr> <th>PLATE</th> <th>GRIP(DRY)</th> <th>SHEAR</th> <th>SECTION</th> </tr> <tr> <th>(PSI)</th> <th>(PLI)</th> <th>(PLI)</th> <th>(PLI)</th> </tr> </thead> <tbody> <tr> <td></td> <td>MAX</td> <td>MIN</td> <td>MAX MIN</td> </tr> <tr> <td>MT20</td> <td>618</td> <td>354</td> <td>1667 822 2284 1656</td> </tr> </tbody> </table> PLATE PLACEMENT TOL. = 0.250 Inches PLATE ROTATION TOL. = 5.0 Deg. JSI GRIP= 0.90 (E) (INPUT = 0.90) JSI METAL= 0.72 (P) (INPUT = 1.00)	PLATE	GRIP(DRY)	SHEAR	SECTION	(PSI)	(PLI)	(PLI)	(PLI)		MAX	MIN	MAX MIN	MT20	618	354	1667 822 2284 1656
PLATE	GRIP(DRY)	SHEAR	SECTION														
(PSI)	(PLI)	(PLI)	(PLI)														
	MAX	MIN	MAX MIN														
MT20	618	354	1667 822 2284 1656														



A-15073689(2)



TOTAL WEIGHT = 65 lb [M]

LUMBER				
N. L. G. A. RULES	CHORDS	SIZE	LUMBER	DESCR.
O - A	2x4	DRY	No.2	SPF
A - D	2x4	DRY	No.2	SPF
D - G	2x4	DRY	No.2	SPF
I - G	2x4	DRY	No.2	SPF
P - 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 2-0-0 OC.				

PLATES (table is in inches)				
JT	TYPE	PLATES	W	LEN Y X
A	TMV+p	MT20	2.0	4.0
B, C, E, F				
B	TMW+w	MT20	2.0	4.0
D	TTW+p	MT20	3.0	5.0 2.00 Edge
G	TMV+p	MT20	2.0	4.0
I	BMV1+p	MT20	2.0	4.0
J, K, L, M, N				
J	BMW1+w	MT20	2.0	4.0
O	BMV1+p	MT20	2.0	4.0
Edge - INDICATES REFERENCE CORNER OF PLATE TOUCHES EDGE OF CHORD.				

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

DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER
BEARINGS
 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 = 6.25FT.
 MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00FT. OR RIGID CEILING DIRECTLY APPLIED.

LOADING
 TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	LC1 MAX (LC)	MAX UNBRAC LENGTH	MEMB.	MAX. FACTORED FORCE (LBS)	MAX (LC)
FR-TO		FROM TO			FR-TO		
O-A	-71/0	0.0	0.0 0.03 (1)	7.81	L-D	-129/0	0.15 (1)
A-B	-31/0	-70.5	-70.5 0.03 (1)	6.25	M-C	-148/0	0.06 (1)
B-C	-12/4	-70.5	-70.5 0.04 (1)	6.25	N-B	-93/0	0.02 (1)
C-D	-12/4	-70.5	-70.5 0.04 (1)	6.25	K-E	-148/0	0.06 (1)
D-E	-12/4	-70.5	-70.5 0.04 (1)	6.25	J-F	-93/0	0.02 (1)
E-F	-12/4	-70.5	-70.5 0.04 (1)	6.25			
F-G	-31/0	-70.5	-70.5 0.03 (1)	6.25			
I-G	-71/0	0.0	0.0 0.03 (1)	7.81			
P-O	0/0	-88.0	-88.0 0.10 (1)	10.00			
O-N	-1/15	-17.5	-17.5 0.08 (1)	10.00			
N-M	-2/10	-17.5	-17.5 0.02 (4)	10.00			
M-L	-2/7	-17.5	-17.5 0.02 (4)	10.00			
L-K	-2/7	-17.5	-17.5 0.02 (4)	10.00			
K-J	-2/10	-17.5	-17.5 0.02 (4)	10.00			
J-I	-1/15	-17.5	-17.5 0.08 (1)	10.00			
I-H	0/0	-88.0	-88.0 0.10 (1)	10.00			

DESIGN CRITERIA

SPECIFIED LOADS:
 TOP CH. LL = 21.0 PSF
 DL = 3.0 PSF
 BOT CH. LL = 0.0 PSF
 DL = 7.0 PSF
 TOTAL LOAD = 31.0 PSF

SPACING = 24.0 IN. C/C

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

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

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=0.04 (C-D:1), BC=0.10 (O-P:1),
 WB=0.15 (D-L:1), SSI=0.09 (O-P: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 = 0.50

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

NAIL VALUES
 PLATE GRIP(DRY) SHEAR SECTION
 (PSI) (PLI) (PLI)
 MAX MIN MAX MIN MAX MIN
 MT20 618 354 1667 822 2284 1656

PLATE PLACEMENT TOL. = 0.250 inches

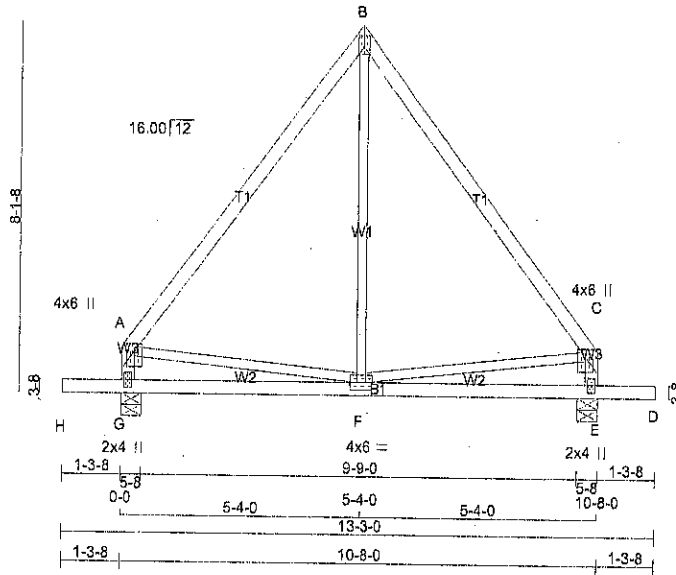
PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.13 (C) (INPUT = 0.90)
 JSI METAL= 0.04 (C) (INPUT = 1.00)



A-15073684

Alpa Roof Truss, Maple



LUMBER				
N. L. G. A. RULES	CHORDS	SIZE	LUMBER	DESCR.
A - B	2x4	DRY	No.2	SPF
B - C	2x4	DRY	No.2	SPF
G - A	2x4	DRY	No.2	SPF
E - C	2x4	DRY	No.2	SPF
H - D	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
A	TMVW+p	MT20	4.0	6.0	2.00	2.00
B	TTW+p	MT20	3.0	5.0	2.00	Edge
C	TMVW+p	MT20	4.0	6.0	2.00	2.00
E	BMV1+p	MT20	2.0	4.0		
F	BMVWW+4	MT20	4.0	6.0		
G	BMV1+p	MT20	2.0	4.0		

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

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

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

BEARINGS

JT	FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	REQRD BRG
	VERT	DOWN	IN-SX	IN-SX
G	583	0	5-8	1-8
E	583	0	5-8	1-8

UNFACTORED REACTIONS

JT	1ST LCASE COMBINED	MAX/MIN. COMPONENT REACTIONS	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
G	411	278 / 0	0 / 0	0 / 0	0 / 0	0 / 0	133 / 0	0 / 0
E	411	278 / 0	0 / 0	0 / 0	0 / 0	0 / 0	133 / 0	0 / 0

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

BRACING

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

LOADING

TOTAL LOAD CASES: (4)

MEMB.	CHORDS MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD				WEBS MAX. FACTORED FORCE			
		FROM	TO	LC1 (PLF)	MAX CSI (LC)	MEMB. UNBRACED LENGTH	FROM	TO	MAX (LBS) CSI (LC)
A-B	-282 / 0	-70.5	-70.5	0.26 (1)	6.25	F-B	0 / 116	0.04 (4)	
B-C	-282 / 0	-70.5	-70.5	0.26 (1)	6.25	A-F	0 / 170	0.04 (1)	
G-A	-433 / 0	0.0	0.0	0.04 (1)	7.81	F-C	0 / 170	0.04 (1)	
E-C	-433 / 0	0.0	0.0	0.04 (1)	7.81				
H-G	0 / 0	-88.0	-88.0	0.10 (1)	10.00				
G-F	0 / 0	-17.5	-17.5	0.14 (4)	10.00				
F-E	0 / 0	-17.5	-17.5	0.14 (4)	10.00				
E-D	0 / 0	-88.0	-88.0	0.10 (1)	10.00				

TOTAL WEIGHT = 2 X 52 = 104 lb (M/F)

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH.	LL = 21.0	PSF
BOT CH.	LL = 0.0	PSF
	DL = 7.0	PSF
TOTAL LOAD	= 31.0	PSF

SPACING = 24.0 IN. C/C

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

THIS DESIGN COMPLIES WITH:

- PART 9 OF OBC 2012, BCBC 2012, ABC 2014
- CSA 086-09
- TPIC 2011

(5% OF 23.0 P.S.F. G.S.L. PLUS
8.4 P.S.F. RAIN LOAD EQUALS
21.0 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL)= L/360 (0.36")
CALCULATED VERT. DEFL.(LL) = L/999 (0.00")
ALLOWABLE DEFL.(TL)= L/360 (0.36")
CALCULATED VERT. DEFL.(TL) = L/999 (0.02")

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 (0.01")

CSI: TC=0.26 (B-C:1), BC=0.14 (F-G:4),
WB=0.04 (B-F:4), SS=0.09 (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 = 0.50

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

NAIL VALUES

PLATE GRIP(DRY) SHEAR	SECTION
(PSI)	(PLI)
MAX MIN	MAX MIN
MT20	618 354 1887 822 2284 1656

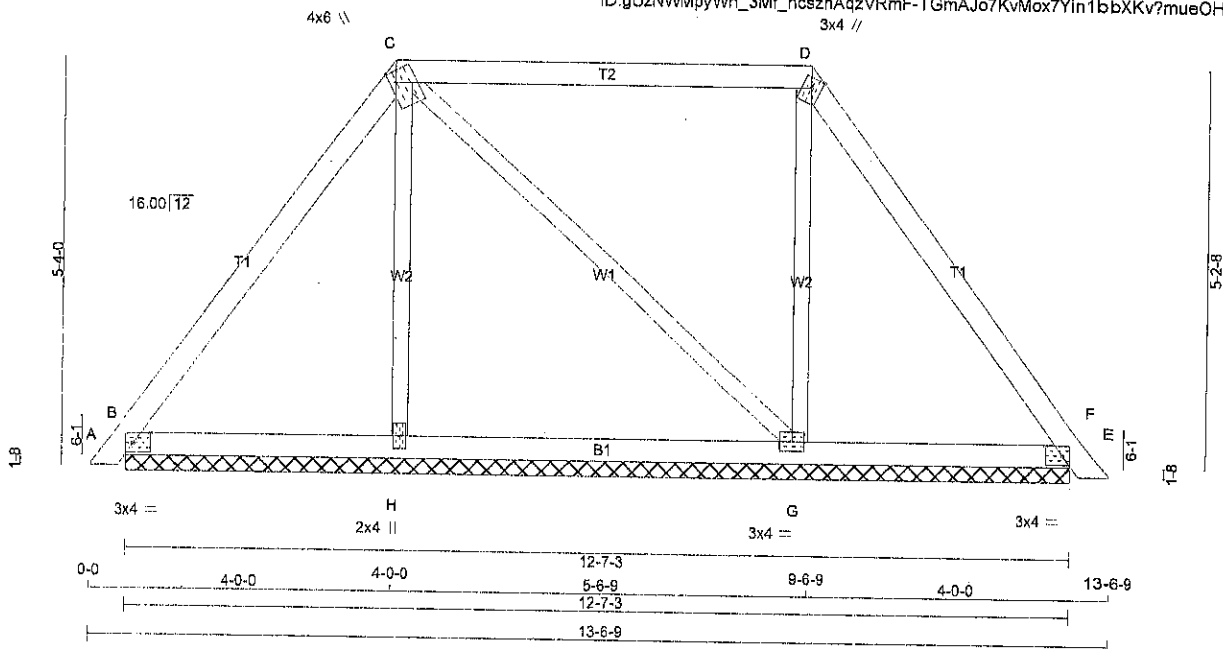
PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.27 (B) (INPUT = 0.90)
JSI METAL= 0.09 (C) (INPUT = 1.00)



A-15073683



TOTAL WEIGHT = 2 X 49 = 98 lb [M]

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

PLATES (table is in inches)					
JT	TYPE	PLATES	W	LEN	Y X
B	TMB1-I	MT20	3.0	4.0	1.50 2.75
C	TTWW+m	MT20	4.0	8.0	1.75 1.00
D	TTW+m	MT20	3.0	4.0	Edge
E	TMB1-I	MT20	3.0	4.0	1.50 2.75
G	BMWW1-I	MT20	3.0	4.0	
H	BMW1+w	MT20	2.0	4.0	

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

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

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

JT	FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG IN-SX	REQRD BRG IN-SX
	VERT	HORZ	DOWN	HORZ UPLIFT		
B	290	0	290	0	12-7-3	1-8
E	255	0	255	0	12-7-3	1-8
H	266	0	266	0	12-7-3	1-8
G	348	0	348	0	12-7-3	1-8

UNFACTORED REACTIONS

JT	1ST LOASE COMBINED	MAX./MIN. COMPONENT REACTIONS					
		SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
B	200	180 / 0	0 / 0	0 / 0	0 / 0	40 / 0	0 / 0
E	176	139 / 0	0 / 0	0 / 0	0 / 0	37 / 0	0 / 0
H	191	105 / 0	0 / 0	0 / 0	0 / 0	86 / 0	0 / 0
G	247	154 / 0	0 / 0	0 / 0	0 / 0	93 / 0	0 / 0

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	FACTORED LC1 MAX (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. FACTORED UNBRACED LENGTH (LC)	
FR-TO		FROM	TO	FR-TO			
A-B	0 / 9	-70.5	-70.5 0.01 (1)	10.00	H-C	-177 / 0	0.07 (1)
B-C	-147 / 0	-70.5	-70.5 0.15 (1)	6.25	C-G	-36 / 0	0.04 (1)
C-D	-56 / 0	-70.5	-70.5 0.37 (1)	6.25	G-D	-235 / 0	0.09 (1)
D-E	-104 / 0	-70.5	-70.5 0.15 (1)	6.25			
E-F	0 / 9	-70.5	-70.5 0.01 (1)	10.00			
B-H	0 / 86	-17.5	-17.5 0.09 (4)	10.00			
H-G	0 / 83	-17.5	-17.5 0.09 (4)	10.00			
G-E	0 / 61	-17.5	-17.5 0.09 (4)	10.00			

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH. LL = 21.0 PSF
 DL = 3.0 PSF
 BOT CH. LL = 0.0 PSF
 DL = 7.0 PSF
 TOTAL LOAD = 31.0 PSF

SPACING = 24.0 IN./C/C

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

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

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

(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=0.37 (C-D:1), BC=0.09 (B-H:4), WB=0.09 (D-G:1), SS=0.15 (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 = 0.50

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

NAIL VALUES
 PLATE GRIP(DRY) SHEAR SECTION (PSI) (PLI) (PLI)
 MAX MIN MAX MIN MAX MIN
 MT20 618 354 1667 822 2284 1666

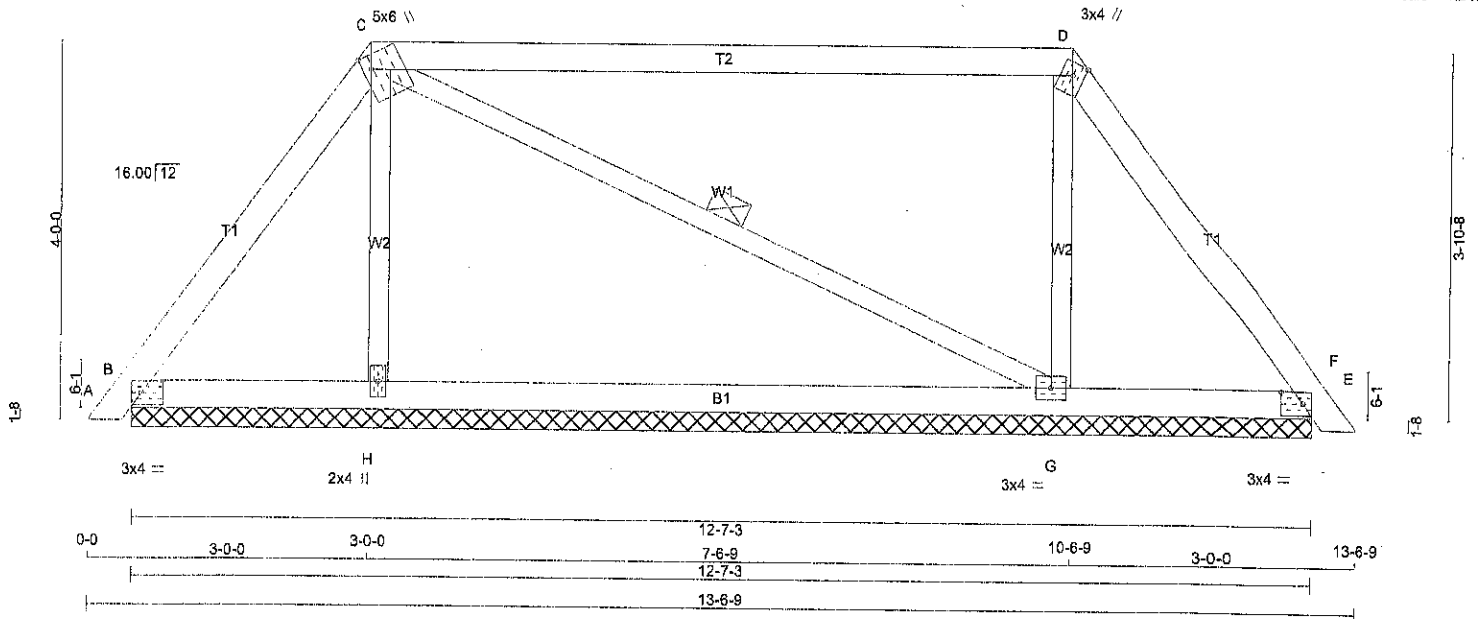
PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.51 (B) (INPUT = 0.80)
 JSI METAL= 0.08 (B) (INPUT = 1.00)



A-11073682



TOTAL WEIGHT = 2 X 46 = 92 lb [M]

LUMBER			
N. L. G. A. RULES	CHORDS	SIZE	LUMBER
A - C	2x4	DRY	No.2
C - D	2x4	DRY	2100F 1.8E
D - F	2x4	DRY	No.2
B - E	2x4	DRY	No.2
ALL WEBS	2x3	DRY	No.2
DRY: SEASONED LUMBER.			

PLATES (table is in inches)					
JT	TYPE	PLATES	W	LEN	Y X
B	TMB1-I	MT20	3.0	4.0	1.50 2.75
C	TTWW+m	MT20	5.0	6.0	1.75 1.00
D	TTW+m	MT20	3.0	4.0	Edge
E	TMB1-I	MT20	3.0	4.0	1.50 2.75
G	BMWW1-t	MT20	3.0	4.0	
H	BMW1+w	MT20	2.0	4.0	

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

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

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

JT	FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG	REQRD BRG
	VERT	HORZ	DOWN	HORZ		
B	230	0	230	0	12-7-3	1-8
E	209	0	209	0	12-7-3	1-8
H	341	0	341	0	12-7-3	1-8
G	377	0	377	0	12-7-3	1-8

UNFACTORED REACTIONS

JT	COMBINED	MAX/MIN. COMPONENT REACTIONS		PERM. LIVE	WIND	DEAD	SOIL
		SNOW	LIVE				
B	157	138 / 0	0 / 0	0 / 0	0 / 0	18 / 0	0 / 0
E	142	126 / 0	0 / 0	0 / 0	0 / 0	16 / 0	0 / 0
H	246	136 / 0	0 / 0	0 / 0	0 / 0	109 / 0	0 / 0
G	270	158 / 0	0 / 0	0 / 0	0 / 0	112 / 0	0 / 0

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

BRACING

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

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

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 / 9	-70.5 -70.5	0.01 (1)	H-C	-229 / 0	0.06 (1)	
B-C	-146 / 0	-70.5 -70.5	0.08 (1)	C-G	-17 / 0	0.01 (1)	
C-D	-82 / 0	-70.5 -70.5	0.45 (1)	G-D	-257 / 0	0.06 (1)	
D-E	-120 / 0	-70.5 -70.5	0.08 (1)				
E-F	0 / 9	-70.5 -70.5	0.01 (1)				
B-H	0 / 85	-17.5 -17.5	0.16 (4)				
H-G	0 / 78	-17.5 -17.5	0.16 (4)				
G-E	0 / 70	-17.5 -17.5	0.16 (4)				

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH.	LL	=	21.0	PSF
DL	=	3.0	PSF	
BOT CH.	LL	=	0.0	PSF
DL	=	7.0	PSF	
TOTAL LOAD	=	31.0	PSF	

SPACING = 24.0 IN. G/C

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

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

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

(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=0.45 (C-D:1), BC=0.16 (B-H:4), WB=0.06 (D-G:1), SSI=0.21 (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 = 0.50

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	618 354	1667 822	2284 1658

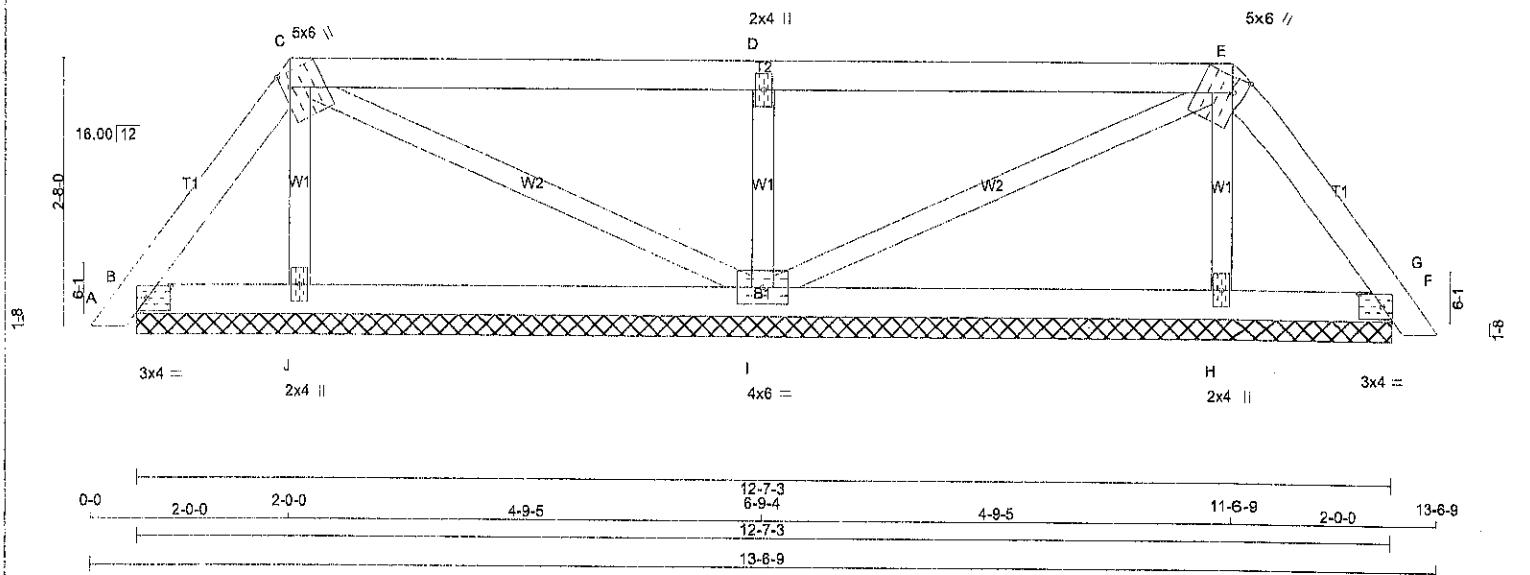
PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.84 (D) (INPUT = 0.90)
 JSI METAL= 0.07 (B) (INPUT = 1.00)



A-H073681



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

PLATES (table is in inches)						
JT	TYPE	PLATES	W	LEN	Y	X
B	TMB1-I	MT20	3.0	4.0	1.50	2.75
C	TTWW+m	MT20	5.0	6.0	1.75	1.00
D	TMW+w	MT20	2.0	4.0		
E	TTWW+m	MT20	5.0	6.0	1.75	1.00
F	TMB1-I	MT20	3.0	4.0	1.50	2.75
H	BMW1+w	MT20	2.0	4.0		
I	BMWWV1-t	MT20	4.0	6.0		
J	BMW1+w	MT20	2.0	4.0		

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

DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER							
BEARINGS							
JT	FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG	REQRD BRG	
	VERT	HORZ	DOWN	HORZ			
B	130	0	130	0	0	12-7-3	1-8
F	130	0	130	0	0	12-7-3	1-8
J	186	0	186	0	0	12-7-3	1-8
I	527	0	527	0	0	12-7-3	1-8
H	186	0	186	0	0	12-7-3	1-8

UNFACTORED REACTIONS								
JT	1ST LCASE COMBINED		MAX./MIN. COMPONENT REACTIONS		PERM.LIVE	WIND	DEAD	SOIL
	SNOW	LIVE						
B	88	77 / 0	0 / 0	0 / 0	0 / 0	0 / 0	11 / 0	0 / 0
F	88	77 / 0	0 / 0	0 / 0	0 / 0	0 / 0	11 / 0	0 / 0
J	134	71 / 0	0 / 0	0 / 0	0 / 0	0 / 0	64 / 0	0 / 0
I	369	262 / 0	0 / 0	0 / 0	0 / 0	0 / 0	107 / 0	0 / 0
H	134	71 / 0	0 / 0	0 / 0	0 / 0	0 / 0	64 / 0	0 / 0

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

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

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)
A-B	0 / 9	-70.5	-70.5 0.01 (1)	10.00	J-C	-119 / 0	0.02 (1)
B-C	-62 / 0	-70.5	-70.5 0.03 (1)	6.25	C-I	-24 / 0	0.01 (1)
C-D	-8 / 0	-70.5	-70.5 0.27 (1)	10.00	I-D	-420 / 0	0.07 (1)
D-E	-8 / 0	-70.5	-70.5 0.27 (1)	10.00	I-E	-24 / 0	0.01 (1)
E-F	-62 / 0	-70.5	-70.5 0.03 (1)	6.25	H-E	-119 / 0	0.02 (1)
F-G	0 / 9	-70.5	-70.5 0.01 (1)	10.00			
B-J	0 / 36	-17.5	-17.5 0.06 (4)	10.00			
J-I	0 / 30	-17.5	-17.5 0.09 (4)	10.00			
I-H	0 / 30	-17.5	-17.5 0.09 (4)	10.00			
H-F	0 / 36	-17.5	-17.5 0.06 (4)	10.00			

DESIGN CRITERIA			
SPECIFIED LOADS:			
TOP CH.	LL	=	21.0 PSF
	DL	=	3.0 PSF
BOT CH.	LL	=	0.0 PSF
	DL	=	7.0 PSF
TOTAL LOAD		=	31.0 PSF
SPACING		=	24.0 IN. C/C

LOADING IN FLAT SECTION BASED ON A SLOPE OF 2.00/12 MINIMUM
 THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBC 2010

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

(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=0.27 (C-D:1), BC=0.09 (I-J:4), WB=0.07 (D-I:1), SSI=0.16 (C-D:1)

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

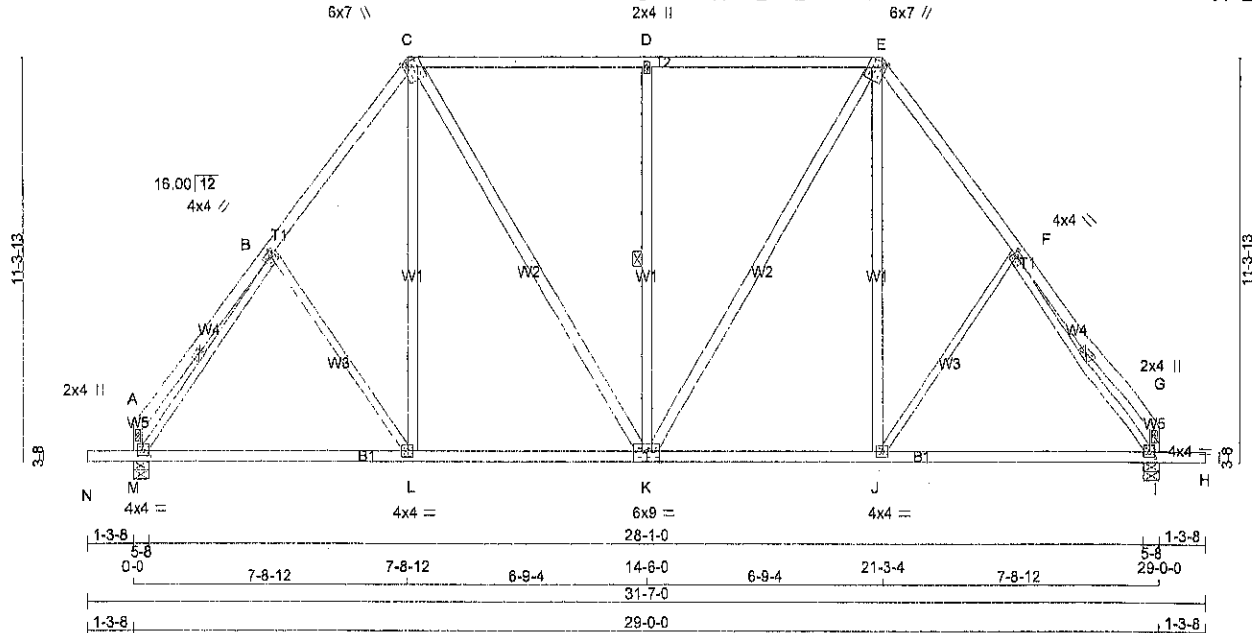
COMPANION LIVE LOAD FACTOR = 0.50

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

NAIL VALUES			
PLATE	GRIP(DRY)	SHEAR	SECTION
	(PSI)	(PLI)	(PLI)
	MAX MIN	MAX MIN	MAX MIN
MT20	618 354	1887 822	2284 1856

PLATE PLACEMENT TOL. = 0.250 inches
 PLATE ROTATION TOL. = 5.0 Deg.
 JSI GRIP= 0.24 (B) (INPUT = 0.80)
 JSI METAL= 0.08 (D) (INPUT = 1.00)

A-1073680



TOTAL WEIGHT = 10 X 170 = 1699 lb [M/F]

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

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	4.0	4.0	1.50 1.25
C - TTWW+m	MT20	6.0	7.0	Edge 1.50
D - TMW+w	MT20	2.0	4.0	
E - TTWW+m	MT20	6.0	7.0	Edge 1.50
F - TMWW-t	MT20	4.0	4.0	1.50 1.25
G - TMV+p	MT20	2.0	4.0	
I - BMVW1-t	MT20	4.0	4.0	1.75 2.00
J - BMWW-t	MT20	4.0	4.0	
K - BSWWW-I	MT20	6.0	9.0	Edge 4.50
L - BMWW-t	MT20	4.0	4.0	
M - BMVW1-t	MT20	4.0	4.0	1.75 2.00

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

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

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

BEARINGS		FACTORED		MAXIMUM FACTORED		INPUT		REQRD	
JT	GROSS REACTION	VERT	HORZ	DOWN	HORZ	BRG	IN-SX	BRG	IN-SX
M	1440	0	1440	0	0	5-8	1-8		
I	1440	0	1440	0	0	5-8	1-8		

UNFACTORED REACTIONS		1ST LCASE		MAX./MIN. COMPONENT REACTIONS	
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND
M	1019	663 / 0	0 / 0	0 / 0	366 / 0
I	1019	663 / 0	0 / 0	0 / 0	366 / 0

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

BRACING
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 5.68FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00FT. OR RIGID CEILING DIRECTLY APPLIED.

1 LATERAL BRACE(S) REQUIRED AT 1/2 LENGTH OF D-K, B-M, F-I.
END VERTICAL(S) MUST BE SHEATHED OR HAVE BRACES AS INDICATED IN THE MAX. UNBRACED LENGTH COLUMN OF THE TABLE BELOW

LOADING
TOTAL LOAD CASES: (4)

CHORDS		MEMB.		WEBS	
MAX. FACTORED	FACTORED	MAX. FACTORED	FACTORED	MAX. FACTORED	FACTORED
FORCE (LBS)	VERT. LOAD (PLF)	FORCE (LBS)	VERT. LOAD (PLF)	FORCE (LBS)	VERT. LOAD (PLF)
FR-TO	FROM TO	FR-TO	FROM TO	FR-TO	FROM TO
A-B	0 / 25	-70.5	-70.5 0.16 (1)	B-L	-135 / 0
B-C	-1200 / 0	-70.5	-70.5 0.16 (1)	L-C	0 / 259
C-D	-833 / 0	-78.0	-78.0 0.48 (1)	C-K	0 / 436
D-E	-833 / 0	-78.0	-78.0 0.48 (1)	K-D	-644 / 0
E-F	-1200 / 0	-70.5	-70.5 0.16 (1)	K-E	0 / 436
F-G	0 / 25	-70.5	-70.5 0.16 (1)	J-E	0 / 259
M-A	-103 / 0	0.0	0.0 0.01 (1)	J-F	-135 / 0
I-G	-103 / 0	0.0	0.0 0.01 (1)	M-B	-1403 / 0
				F-I	-1403 / 0
N-M	0 / 0	-88.0	-88.0 0.10 (1)		
M-L	0 / 779	-17.5	-17.5 0.31 (4)		
L-K	0 / 704	-17.5	-17.5 0.31 (4)		
K-J	0 / 704	-17.5	-17.5 0.31 (4)		
J-I	0 / 779	-17.5	-17.5 0.31 (4)		
I-H	0 / 0	-88.0	-88.0 0.10 (1)		

DESIGN CRITERIA

SPECIFIED LOADS:
TOP CH. LL = 21.0 PSF
DL = 3.0 PSF
BOT CH. LL = 0.0 PSF
DL = 7.0 PSF
TOTAL LOAD = 31.0 PSF

SPACING = 24.0 IN. C/C

LOADING IN FLAT SECTION BASED ON PIGGYBACK TRUSS WITH SLOPES OF 6.00/12 AND -6.00/12 AND RESPECTIVE WALL HEIGHTS OF 0-0 AND 0-0 AND AN ADDITIONAL DEAD LOAD OF 3.0 P.S.F.

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

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

(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 (0.97")
CALCULATED VERT. DEFL.(LL) = L/999 (0.04")
ALLOWABLE DEFL.(TL)= L/360 (0.97")
CALCULATED VERT. DEFL.(TL) = L/999 (0.12")

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 (0.01")

CSI: TC=0.48 (C-D:1), BC=0.31 (J-K:4), WB=0.45 (F-I:1), SSI=0.26 (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 = 0.50

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

NAIL VALUES
PLATE GRIP(DRY) SHEAR SECTION
(PSI) (PLI) (PLI)
MAX MIN MAX MIN MAX MIN
MT20 618 354 1667 822 2284 1656

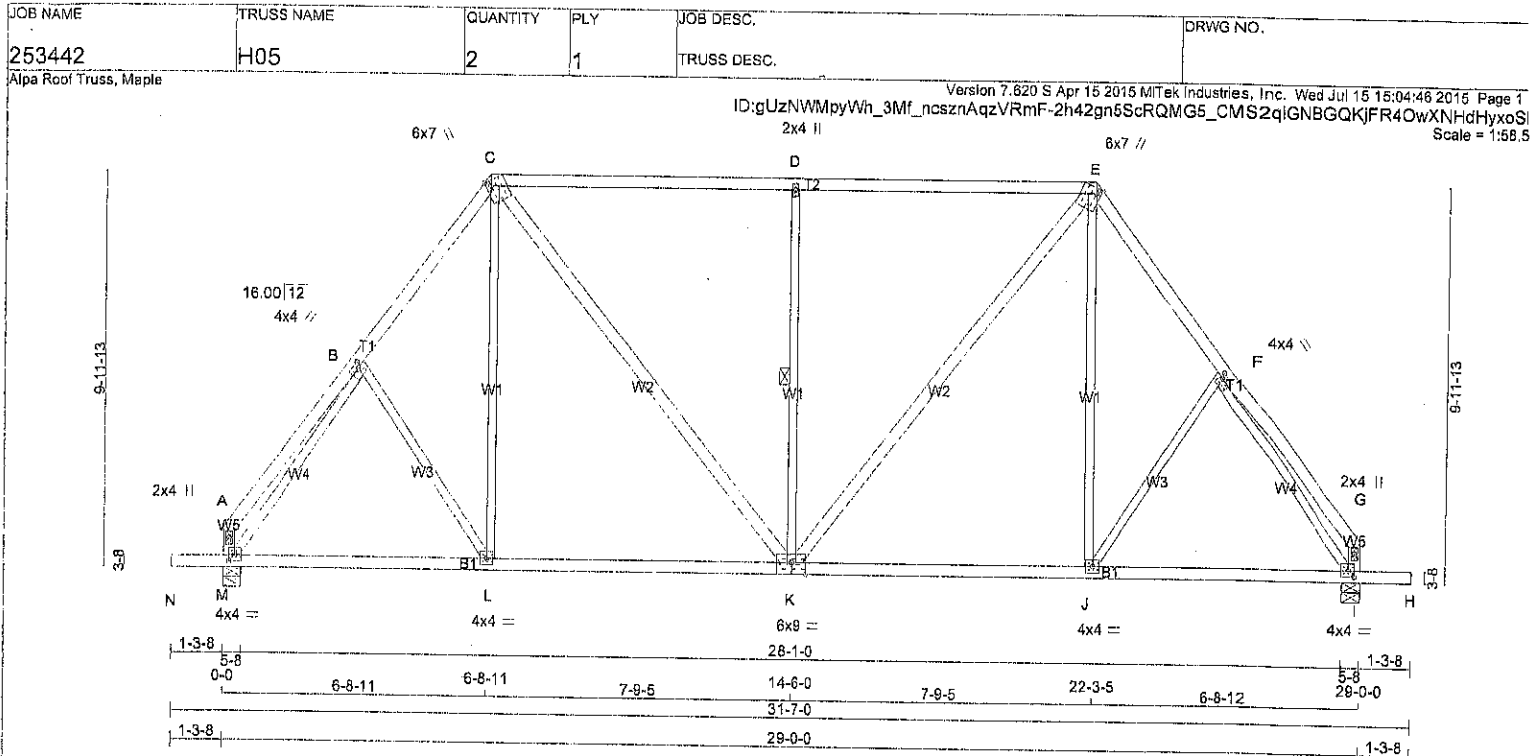
PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.89 (I) (INPUT = 0.90)
JSI METAL= 0.54 (B) (INPUT = 1.00)



A-10073679



LUMBER

N. L. G. A. RULES

CHORDS	SIZE	LUMBER	DESCR.
A - C	2x4 DRY	No.2	SPF
C - E	2x4 DRY	No.2	SPF
E - G	2x4 DRY	No.2	SPF
M - A	2x4 DRY	No.2	SPF
I - G	2x4 DRY	No.2	SPF
N - K	2x4 DRY	No.2	SPF
K - H	2x4 DRY	No.2	SPF
ALL WEBS EXCEPT	2x3 DRY	No.2	SPF
C - K	2x4 DRY	No.2	SPF
K - E	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		
B - TMVW+I	MT20	4.0	4.0	1.50	1.00
C - TTWW+m	MT20	5.0	7.0	Edge	1.50
D - TMVW+I	MT20	2.0	4.0		
E - TTWW+m	MT20	5.0	7.0	Edge	1.50
F - TMVW+I	MT20	4.0	4.0	1.50	1.00
G - TMV+p	MT20	2.0	4.0		
I - BMVW+I	MT20	4.0	4.0	1.75	1.75
J - BMVW+I	MT20	4.0	4.0		
K - BSWW+I	MT20	6.0	9.0	Edge	4.50
L - BMVW+I	MT20	4.0	4.0		
M - BMVW+I	MT20	4.0	4.0	1.75	1.75

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

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

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

BEARINGS

JT	FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG UPLIFT IN-SX	REQD BRG IN-SX
	VERT	HORZ	DOWN	HORZ		
M	1389	0	1389	0	5-8	1-8
I	1389	0	1389	0	5-8	1-8

UNFACTORED REACTIONS

JT	1ST LCASE COMBINED		MAX./MIN. COMPONENT REACTIONS		WIND	DEAD	SOIL
	SNOW	LIVE	PERM. LIVE	WIND			
M	979	663 / 0	0 / 0	0 / 0	0 / 0	316 / 0	0 / 0
I	979	663 / 0	0 / 0	0 / 0	0 / 0	316 / 0	0 / 0

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 5.33FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00FT. OR RIGID CEILING DIRECTLY APPLIED.

1 LATERAL BRACE(S) REQUIRED AT 1/2 LENGTH OF D-K.
END VERTICAL(S) MUST BE SHEATHED OR HAVE BRACES AS INDICATED IN THE MAX. UNBRACED LENGTH COLUMN OF THE TABLE BELOW

LOADING

TOTAL LOAD CASES: (4)

CHORDS					WEBS				
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. LC1 (LC)	MAX. UNBRACED LENGTH	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. CSI (LC)		
FR-TO		FROM	TO		FR-TO				
A-B	0 / 21	-70.5	-70.5	0.12 (1)	10.00	B-L	-98 / 4	0.07 (1)	
B-C	-1179 / 0	-70.5	-70.5	0.12 (1)	5.77	L-C	0 / 222	0.05 (4)	
C-D	-1016 / 0	-70.5	-70.5	0.59 (1)	5.33	C-K	0 / 515	0.08 (1)	
D-E	-1016 / 0	-70.5	-70.5	0.59 (1)	5.33	K-D	-670 / 0	0.45 (1)	
E-F	-1179 / 0	-70.5	-70.5	0.12 (1)	5.77	K-E	0 / 515	0.08 (1)	
F-G	0 / 21	-70.5	-70.5	0.12 (1)	10.00	J-E	0 / 222	0.05 (4)	
M-A	-91 / 0	0.0	0.0	0.01 (1)	7.81	J-F	-96 / 4	0.07 (1)	
I-G	-91 / 0	0.0	0.0	0.01 (1)	7.81	M-B	-1361 / 0	0.86 (1)	
						F-I	-1361 / 0	0.86 (1)	
N-M	0 / 0	-88.0	-88.0	0.10 (1)	10.00				
M-L	0 / 747	-17.5	-17.5	0.27 (4)	10.00				
L-K	0 / 693	-17.5	-17.5	0.27 (4)	10.00				
K-J	0 / 693	-17.5	-17.5	0.27 (4)	10.00				
J-I	0 / 747	-17.5	-17.5	0.27 (4)	10.00				
I-H	0 / 0	-88.0	-88.0	0.10 (1)	10.00				

TOTAL WEIGHT = 2 X 151 = 302 lb [M](F)

DESIGN CRITERIA

SPECIFIED LOADS:
TOP CH. LL = 21.0 PSF
DL = 3.0 PSF
BOT CH. LL = 0.0 PSF
DL = 7.0 PSF
TOTAL LOAD = 31.0 PSF

SPACING = 24.0 IN. C/C

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

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

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

(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 (0.97")
CALCULATED VERT. DEFL.(LL) = L/999 (0.04")
ALLOWABLE DEFL.(TL) = L/360 (0.97")
CALCULATED VERT. DEFL.(TL) = L/999 (0.09")

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 (0.01")

CSI: TC=0.59 (C-D:1), BC=0.27 (J-K:4), WB=0.86 (B-M:1), SSI=0.27 (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 = 0.50

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

NAIL VALUES
PLATE GRIP(DRY) SHEAR SECTION (PSI) (PLI) (PLI)
MAX MIN MAX MIN MAX MIN
MT20 618 354 1887 922 2284 1656

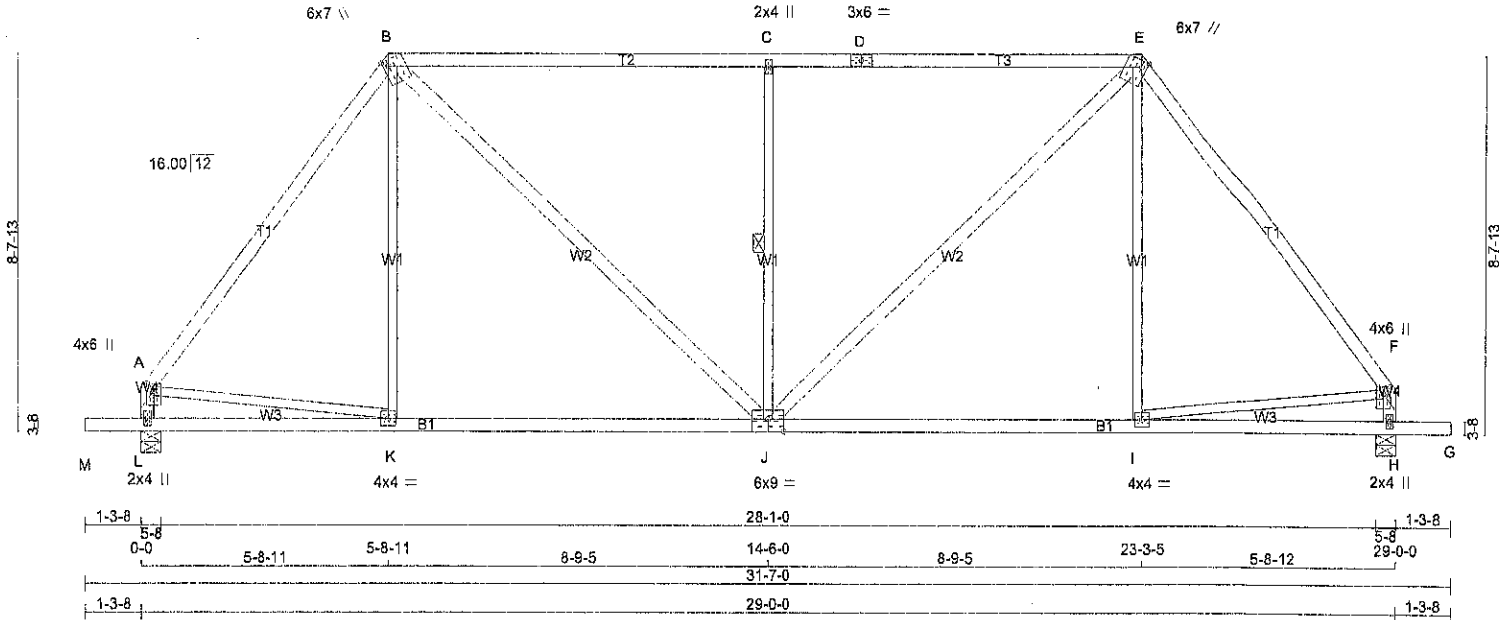
PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.79 (C) (INPUT = 0.90)
JSI METAL= 0.52 (F) (INPUT = 1.00)



A-15073678



TOTAL WEIGHT = 2 X 135 = 271 lb

CHORDS	SIZE	LUMBER	DESCR.
A - B	2x4 DRY	No.2	SPF
B - D	2x4 DRY	1650F 1.5E	SPF
D - E	2x4 DRY	1650F 1.5E	SPF
E - F	2x4 DRY	No.2	SPF
L - A	2x4 DRY	No.2	SPF
H - F	2x4 DRY	No.2	SPF
M - J	2x4 DRY	No.2	SPF
J - G	2x4 DRY	No.2	SPF
ALL WEBS EXCEPT	2x3 DRY	No.2	SPF
B - J	2x4 DRY	No.2	SPF
J - E	2x4 DRY	No.2	SPF

DRY: SEASONED LUMBER.

PLATES (table is in inches)	W	LEN	Y	X
A - TMVW+p	MT20	4.0	6.0	2.00
B - TTWW+m	MT20	6.0	7.0	Edge 1.50
C - TMVW+w	MT20	2.0	4.0	
D - TS-t	MT20	3.0	6.0	
E - TTWW+m	MT20	6.0	7.0	Edge 1.50
F - TMVW+p	MT20	4.0	6.0	2.00
G - BMV1+p	MT20	2.0	4.0	
H - BMVW-t	MT20	4.0	4.0	
I - BSWWW-l	MT20	6.0	9.0	Edge 4.50
K - BMVW-t	MT20	4.0	4.0	
L - BMV1+p	MT20	2.0	4.0	

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

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

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

BEARINGS	FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT	REQD
JT	VERT	HORZ	DOWN	HORZ
L	1389	0	1389	0
H	1389	0	1389	0

UNFACTORED REACTIONS	1ST LCASE	MAX./MIN. COMPONENT REACTIONS
JT	COMBINED	SNOW
L	979	663 / 0
H	979	663 / 0

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

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

1 LATERAL BRACE(S) REQUIRED AT 1/2 LENGTH OF C-J.
END VERTICAL(S) MUST BE SHEATHED OR HAVE BRACES AS INDICATED IN THE MAX. UNBRACED LENGTH COLUMN OF THE TABLE BELOW

LOADING	CHORDS	MEMB.	MAX. FACTORED FORCE (LBS)	VERT. LOAD (PLF)	LC1 MAX (LC)	MAX UNBRACED LENGTH	WEBS	MEMB.	MAX. FACTORED FORCE (LBS)	MAX CSI (LC)
TOTAL LOAD CASES: (4)										
	FR-TO						FR-TO			
	A-B	-1199 / 0	-70.5	-70.5	0.57 (1)	5.24	K-B	0 / 131	0.05 (4)	
	B-C	-1198 / 0	-70.5	-70.5	0.90 (1)	4.79	B-J	0 / 664	0.11 (1)	
	C-D	-1200 / 0	-70.5	-70.5	0.80 (1)	4.79	J-C	-756 / 0	0.36 (1)	
	D-E	-1200 / 0	-70.5	-70.5	0.90 (1)	4.79	J-E	0 / 664	0.11 (1)	
	E-F	-1199 / 0	-70.5	-70.5	0.57 (1)	5.24	I-E	0 / 131	0.05 (4)	
	L-A	-1240 / 0	0.0	0.0	0.12 (1)	7.21	A-K	0 / 720	0.16 (1)	
	H-F	-1240 / 0	0.0	0.0	0.12 (1)	7.21	I-F	0 / 720	0.16 (1)	
	M-L	0 / 0	-88.0	-88.0	0.10 (1)	10.00				
	L-K	0 / 0	-17.5	-17.5	0.21 (4)	10.00				
	K-J	0 / 717	-17.5	-17.5	0.33 (4)	10.00				
	J-I	0 / 717	-17.5	-17.5	0.33 (4)	10.00				
	I-H	0 / 0	-17.5	-17.5	0.21 (4)	10.00				
	H-G	0 / 0	-88.0	-88.0	0.10 (1)	10.00				

DESIGN CRITERIA

SPECIFIED LOADS:
TOP CH. LL = 21.0 PSF
DL = 3.0 PSF
BOT CH. LL = 0.0 PSF
DL = 7.0 PSF
TOTAL LOAD = 31.0 PSF

SPACING = 24.0 IN./C

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

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

THIS DESIGN COMPLIES WITH:
- PART 9 OF OBC 2012, BCBC 2012, ABC 2014
- CSA 086-09
- TPC 2011

(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 (0.97")
CALCULATED VERT. DEFL.(LL) = L/999 (0.04")
ALLOWABLE DEFL.(TL) = L/360 (0.97")
CALCULATED VERT. DEFL.(TL) = L/999 (0.12")

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 (0.01")

CSI: TC=0.90 (C-E:1), BC=0.33 (I-J:4), WB=0.36 (C-J:1), SSI=0.30 (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 = 0.50

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

NAIL VALUES
PLATE GRIP(DRY) SHEAR SECTION
(PSI) (PLI) (PLI)
MAX MIN MAX MIN MAX MIN
MT20 618 354 1667 822 2284 1656

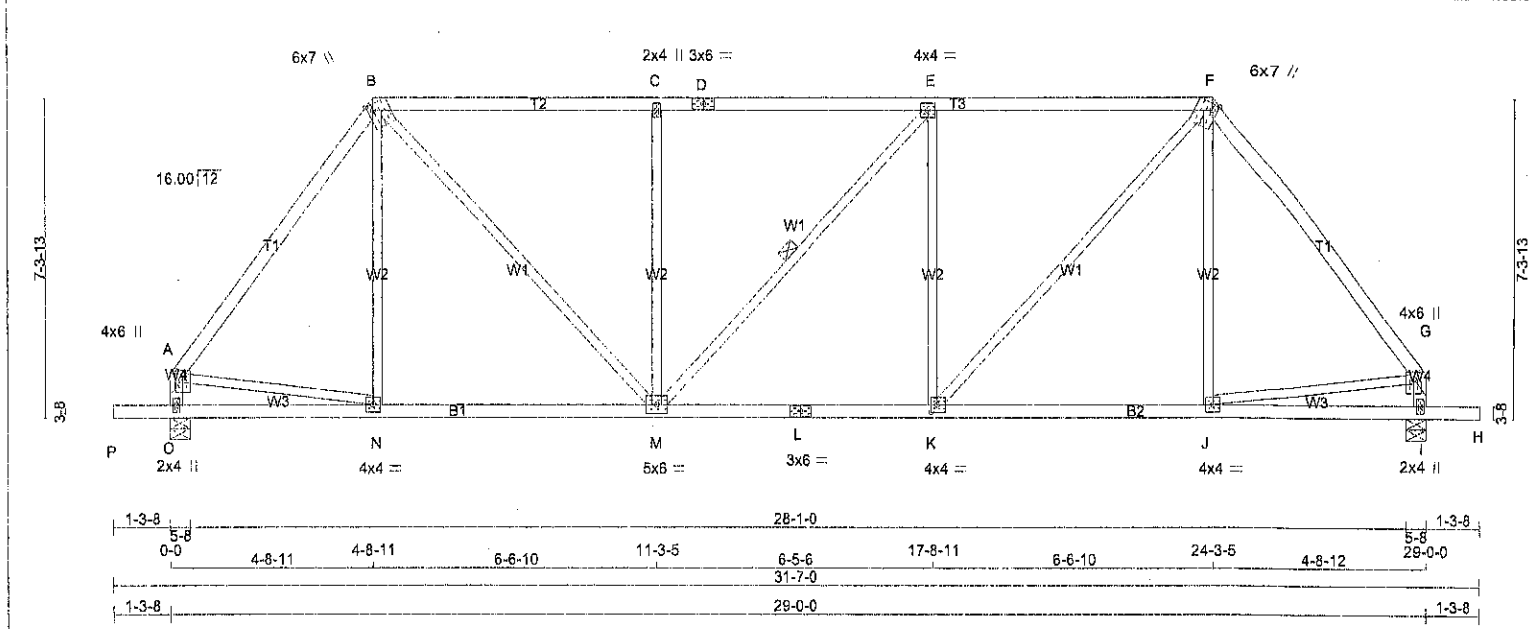
PLATE PLACEMENT TOL. = 0.250 Inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP=0.75 (I) (INPUT = 0.90)
JSI METAL=0.27 (F) (INPUT = 1.00)



A-15073677



TOTAL WEIGHT = 2 X 130 = 261 lb (M)

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

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

NOTES- (1)
1) Lateral brace(s) shown shall be 1x4 for Part 9 design as per CBC 9.23.13.11, and no less than 2x4 for Part 4 design.

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

BEARINGS											
FACTORED				MAXIMUM FACTORED				INPUT		REQRD	
GROSS REACTION				GROSS REACTION				BRG		BRG	
JT	VERT	HORZ		DOWN	HORZ	UPLIFT	IN-SX	IN-SX		IN-SX	
O	1389	0		1389	0	0	5-8	1-8		1-8	
I	1389	0		1389	0	0	5-8	1-8		1-8	

UNFACTORED REACTIONS							
1ST LCASE		MAX./MIN. COMPONENT REACTIONS					
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
O	979	863 / 0	0 / 0	0 / 0	0 / 0	316 / 0	0 / 0
I	978	863 / 0	0 / 0	0 / 0	0 / 0	316 / 0	0 / 0

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

BRACING
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 5.06FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00FT. OR RIGID CEILING DIRECTLY APPLIED.

1 LATERAL BRACE(S) REQUIRED AT 1/2 LENGTH OF E-M.
END VERTICAL(S) MUST BE SHEATHED OR HAVE BRACES AS INDICATED IN THE MAX. UNBRACED LENGTH COLUMN OF THE TABLE BELOW

LOADING						
TOTAL LOAD CASES: (4)						
CHORDS						
MAX. FACTORED						
MEMB.	FORCE (LBS)	VERT. LOAD (PLF)	LC1 MAX (LC)	MAX UNBRAC LENGTH	MEMB. FORCE (LBS)	
FR-TO		FROM TO			FR-TO	
A-B	-1225 / 0	-70.5 -70.5	0.36 (1)	5.41	N-B	0 / 92
B-C	-1289 / 0	-70.5 -70.5	0.47 (1)	3.07	B-M	0 / 830
C-D	-1300 / 0	-70.5 -70.5	0.48 (1)	5.06	M-C	-492 / 0
D-E	-1300 / 0	-70.5 -70.5	0.48 (1)	5.06	M-E	-1 / 0
E-F	-1300 / 0	-70.5 -70.5	0.48 (1)	5.06	K-E	-482 / 0
F-G	-1225 / 0	-70.5 -70.5	0.36 (1)	5.41	K-F	0 / 831
O-A	-1245 / 0	0.0 0.0	0.13 (1)	7.20	J-F	0 / 91
I-G	-1244 / 0	0.0 0.0	0.13 (1)	7.20	A-N	0 / 738
					J-G	0 / 738
P-O	0 / 0	-88.0 -88.0	0.10 (1)	10.00		
O-N	0 / 0	-17.5 -17.5	0.13 (4)	10.00		
N-M	0 / 732	-17.5 -17.5	0.20 (4)	10.00		
M-L	0 / 1301	-17.5 -17.5	0.29 (1)	10.00		
L-K	0 / 1301	-17.5 -17.5	0.29 (1)	10.00		
K-J	0 / 732	-17.5 -17.5	0.20 (4)	10.00		
J-I	0 / 0	-17.5 -17.5	0.13 (4)	10.00		
I-H	0 / 0	-88.0 -88.0	0.10 (1)	10.00		

DESIGN CRITERIA

SPECIFIED LOADS:			
TOP CH.	LL	=	21.0 PSF
	DL	=	3.0 PSF
BOT CH.	LL	=	0.0 PSF
	DL	=	7.0 PSF
TOTAL LOAD = 31.0 PSF			

SPACING = 24.0 IN. C/C

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

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

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

(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 (0.97")
CALCULATED VERT. DEFL.(LL) = L / 999 (0.05")
ALLOWABLE DEFL.(TL)= L/360 (0.97")
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 (0.01")

CSI: TC=0.48 (E-F:1) , BC=0.29 (K-M:1) , WB=0.47 (E-K:1) , SSI=0.21 (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 = 0.50

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

NAIL VALUES					
PLATE GRIP(DRY)			SHEAR SECTION		
(Psi)			(PLI)		
MAX MIN			MAX MIN		
MT20	618	354	1667	822	2284

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 6.0 Deg.

JSI GRIP= 0.79 (M) (INPUT = 0.90)
JSI METAL= 0.40 (L) (INPUT = 1.00)

A-11073676



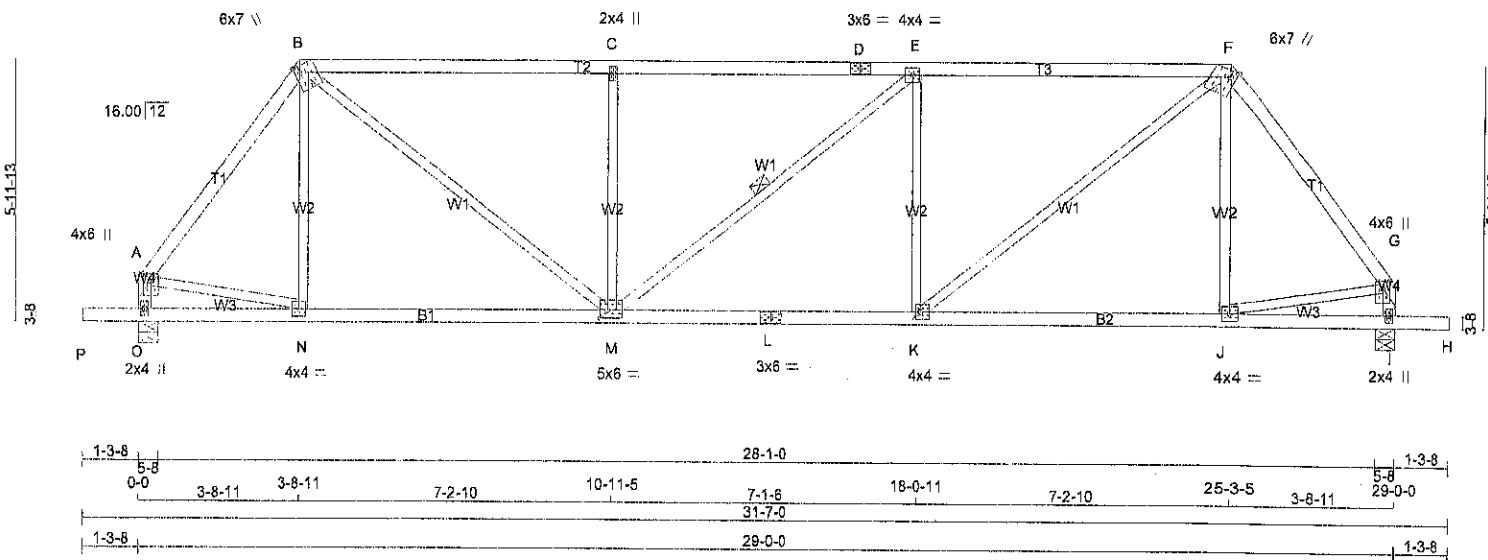
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Alpa Roof Truss, Maple

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Scale = 1:53.0



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

PLATES (table is in inches)				
JT	TYPE	PLATES	W	LEN Y X
A	TMVW+p	MT20	4.0	6.0 2.00 2.00
B	TTWW+m	MT20	6.0	7.0 Edge 1.50
C	TMVW+w	MT20	2.0	4.0
D	TS-t	MT20	3.0	6.0
E	TMVW-t	MT20	4.0	4.0
F	TTWW+m	MT20	6.0	7.0 Edge 1.50
G	TMVW+p	MT20	4.0	6.0 2.00 2.00
I	BMV1+p	MT20	2.0	4.0
J	BMVW-t	MT20	4.0	4.0
K	BMVW-t	MT20	4.0	4.0 2.00 1.50
L	BS-t	MT20	3.0	6.0
M	BMVWV-t	MT20	5.0	6.0 2.25 2.00
N	BMVW-t	MT20	4.0	4.0
O	BMV1+p	MT20	2.0	4.0

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

NOTES- (1)
1) Lateral brace(s) shown shall be 1x4 for Part 9 design as per CBC 9.23.13.11, and no less than 2x4 for Part 4 design.

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

BEARINGS		FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	REQRD BRG
JT	O	VERT	HORZ	UPLIFT	IN-SX
I		1389	0	1389	0
		1389	0	1389	0

UNFACTORED REACTIONS		1ST LCASE	MAX./MIN. COMPONENT REACTIONS	
JT	O	COMBINED	SNOW	LIVE
I		979	663 / 0	0 / 0
		979	663 / 0	0 / 0

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

BRACING
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.47FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00FT. OR RIGID CEILING DIRECTLY APPLIED.

1 LATERAL BRACE(S) REQUIRED AT 1/2 LENGTH OF E-M.
END VERTICAL(S) MUST BE SHEATHED OR HAVE BRACES AS INDICATED IN THE MAX. UNBRACED LENGTH COLUMN OF THE TABLE BELOW

LOADING									
TOTAL LOAD CASES: (4)									
CHORDS				WEBS					
MAX. FACTORED		FACTORED		MAX. FACTORED		FACTORED			
MEMB.	FORCE	VERT. LOAD	LC1 MAX	MAX	MEMB.	FORCE	MAX		
	(LBS)	(PLF)	CSI (LC)	UNBRAC		(LBS)	CSI (LC)		
FR-TO		FROM TO		LENGTH	FR-TO				
A-B	-1251 / 0	-70.5	-70.5 0.21 (1)	5.53	N-B	-12 / 81	0.03 (4)		
B-C	-1600 / 0	-70.5	-70.5 0.63 (1)	4.48	B-M	0 / 1085	0.24 (1)		
C-D	-1600 / 0	-70.5	-70.5 0.63 (1)	4.47	M-C	-542 / 0	0.30 (1)		
D-E	-1600 / 0	-70.5	-70.5 0.63 (1)	4.47	M-E	-1 / 0	0.00 (1)		
E-F	-1601 / 0	-70.5	-70.5 0.64 (1)	4.47	K-E	-543 / 0	0.30 (1)		
F-G	-1250 / 0	-70.5	-70.5 0.21 (1)	5.53	K-F	0 / 1086	0.24 (1)		
O-A	-1257 / 0	0.0	0.0 0.13 (1)	7.17	J-F	-12 / 81	0.03 (4)		
I-G	-1257 / 0	0.0	0.0 0.13 (1)	7.17	A-N	0 / 766	0.17 (1)		
					J-G	0 / 766	0.17 (1)		
P-O	0 / 0	-88.0	-88.0 0.10 (1)	10.00					
O-N	0 / 0	-17.5	-17.5 0.14 (4)	10.00					
N-M	0 / 746	-17.5	-17.5 0.24 (4)	10.00					
M-L	0 / 1601	-17.5	-17.5 0.35 (1)	10.00					
L-K	0 / 1601	-17.5	-17.5 0.35 (1)	10.00					
K-J	0 / 745	-17.5	-17.5 0.24 (4)	10.00					
J-I	0 / 0	-17.5	-17.5 0.14 (4)	10.00					
I-H	0 / 0	-88.0	-88.0 0.10 (1)	10.00					

TOTAL WEIGHT = 2 X 122 = 244 lb

DESIGN CRITERIA

SPECIFIED LOADS:
TOP CH. LL = 21.0 PSF
DL = 3.0 PSF
BOT CH. LL = 0.0 PSF
DL = 7.0 PSF
TOTAL LOAD = 31.0 PSF

SPACING = 24.0 IN. C/C

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

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

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

(65% 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 (0.97")
CALCULATED VERT. DEFL.(LL) = L/999 (0.07")
ALLOWABLE DEFL.(TL)= L/360 (0.97")
CALCULATED VERT. DEFL.(TL) = L/999 (0.16")

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 (0.01")

CSI: TC=0.64 (E-F:1), BC=0.36 (K-M:1), WB=0.30 (E-K:1), SSI=0.24 (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 = 0.50

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

NAIL VALUES
PLATE GRIP(DRY) SHEAR SECTION (PSI) (PL) (PLI)
MAX MIN MAX MIN MAX MIN
MT20 618 354 1667 822 2284 1656

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.87 (M) (INPUT = 0.90)
JSI METAL= 0.49 (L) (INPUT = 1.00)

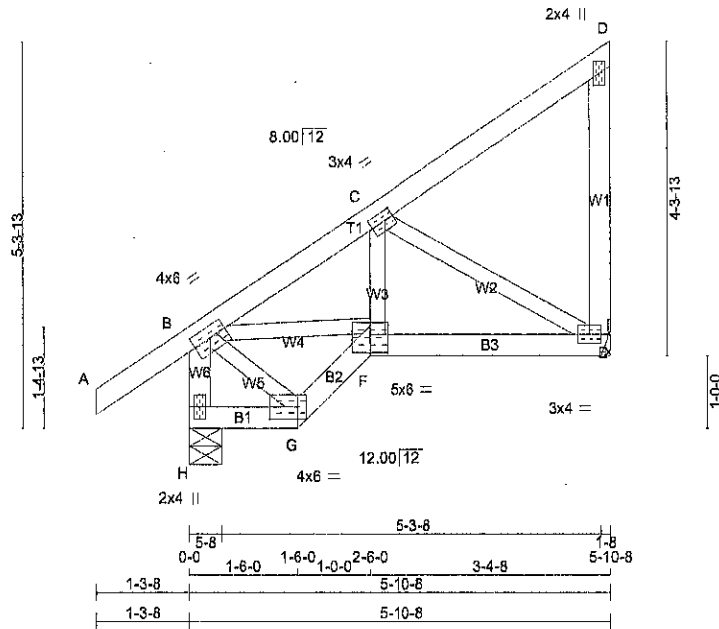


A-11073675

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
253433	J01C	4	1	TRUSS DESC.	

Alpa Roof Truss, Maple

Version 7.620 S Apr 15 2015 MiTek Industries, Inc. Wed Jul 15 08:21:16 2015 Page 1
ID:9?W_oc7jcYybVbeU0Ab4z7zOVES-v4DgXX6M5wDUMXAE6wiUUtgt7bDXooC_unwoBvXyxuN1
Scale: 3/8"=1'



TOTAL WEIGHT = 4 X 30 = 119 lb [M]

LUMBER				
N. L. G. A. RULES				
CHORDS	SIZE	LUMBER	DESCR.	
H - B	2x4	DRY	No.2	SPF
A - D	2x4	DRY	No.2	SPF
E - F	2x4	DRY	No.2	SPF
G - G	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
B	TMVWW-4	MT20	4.0	6.0	1.75	3.00
C	TMVWW-4	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-4	MT20	5.0	6.0	3.00	3.00
G	BBW-4	MT20	4.0	6.0	2.00	4.50
H	BMV1+p	MT20	2.0	4.0		

NOTES- (1)

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

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

BEARINGS

JT	FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG IN-SX	REQRD BRG IN-SX
	VERT	HORZ	DOWN	HORZ		
H	355	0	355	0	5-8	1-8
E	258	0	258	0		HANGER BY OTHERS
						MIN. SEAT SIZE: 1-8

UNFACTORED REACTIONS

JT	1ST LCASE COMBINED	MAX./MIN. COMPONENT REACTIONS					
		SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
H	248	181 / 0	0 / 0	0 / 0	0 / 0	67 / 0	0 / 0
E	182	123 / 0	0 / 0	0 / 0	0 / 0	59 / 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 = 6.25FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00FT. OR RIGID CEILING DIRECTLY APPLIED.

LOADING

TOTAL LOAD CASES: (4)

CHORDS					WEBS				
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			
H-B	-342 / 0	0.0	0.0	0.04 (1)	7.81	B-G	0 / 18	0.01 (4)	
A-B	0 / 27	-70.5	-70.5	0.09 (1)	10.00	B-F	0 / 238	0.05 (1)	
B-C	-287 / 0	-70.5	-70.5	0.10 (1)	6.25	F-C	0 / 57	0.02 (4)	
C-D	-12 / 0	-70.5	-70.5	0.10 (1)	6.25	C-E	-284 / 0	0.07 (1)	
E-D	-93 / 0	0.0	0.0	0.03 (1)	7.81				
H-G	0 / 0	-17.5	-17.5	0.01 (4)	10.00				
G-F	0 / 20	-17.5	-17.5	0.01 (4)	10.00				
F-E	0 / 248	-17.5	-17.5	0.08 (4)	10.00				

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH.	LL =	21.0	PSF
	DL =	3.0	PSF
BOT CH.	LL =	0.0	PSF
	DL =	7.0	PSF
TOTAL LOAD	=	31.0	PSF

SPACING = 24.0 IN. C/C

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

THIS DESIGN COMPLIES WITH:

- PART 9 OF OBC 2012, BCBC 2012, ABC 2014
- CSA 086-09
- TPIC 2011

(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")

CSI: TC=0.10 (B-C:1), BC=0.08 (E-F:4), WB=0.07 (C-E:1), SSI=0.09 (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 = 0.50

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

NAIL VALUES
PLATE GRIP(DRY) SHEAR SECTION
(PSI) (PLI) (PLI)
MAX MIN MAX MIN MAX MIN
MT20 618 354 1667 822 2284 1656

PLATE PLACEMENT TOL. = 0.250 inches

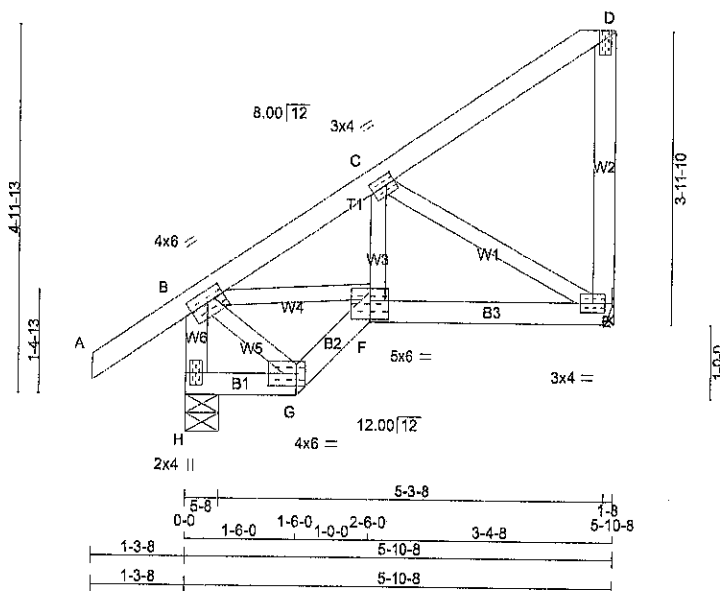
PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.41 (B) (INPUT = 0.90)
JSI METAL= 0.10 (B) (INPUT = 1.00)



A-N073630

Alpa Roof Truss, Maple



LUMBER

N. L. G. A. RULES

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

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

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMVWW-I	MT20	4.0	6.0	1.75	3.00
C	TMVWW-I	MT20	3.0	4.0	1.50	1.50
D	TMV+p	MT20	2.0	4.0	Edge	
E	BMVWW-I	MT20	3.0	4.0		
F	BBWW-I	MT20	6.0	6.0	3.00	3.00
G	BBWW-I	MT20	4.0	6.0	2.00	4.50
H	BMV1+p	MT20	2.0	4.0		

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

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

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

BEARINGS

JT	FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG	REQD BRG
	VERT	HORZ	DOWN	UPLIFT		
H	355	0	355	0	5-8	1-8
E	258	0	258	0	5-8	1-8

HANGER BY OTHERS
 MIN. SEAT SIZE: 1-8

UNFACTORED REACTIONS

JT	COMBINED	MAX./MIN. COMPONENT REACTIONS				
		1ST LCASE	SNOW	LIVE	PERM. LIVE	WIND
H	248	181 / 0	0 / 0	0 / 0	0 / 0	67 / 0
E	182	123 / 0	0 / 0	0 / 0	0 / 0	59 / 0

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

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

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				
H-B	-342 / 0	0.0	0.0	0.04 (1)	7.81	B-G	0 / 18	0.01 (4)	
A-B	0 / 27	-70.5	-70.5	0.09 (1)	10.00	B-F	0 / 238	0.05 (1)	
B-C	-287 / 0	-70.5	-70.5	0.10 (1)	6.25	F-C	0 / 57	0.02 (4)	
C-D	-12 / 0	-70.5	-70.5	0.10 (1)	6.25	C-E	-284 / 0	0.07 (1)	
E-D	-93 / 0	0.0	0.0	0.03 (1)	7.81				
H-G	0 / 0	-17.5	-17.5	0.01 (4)	10.00				
G-F	0 / 20	-17.5	-17.5	0.01 (4)	10.00				
F-E	0 / 248	-17.5	-17.5	0.08 (4)	10.00				

TOTAL WEIGHT = 30 lb [M]

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH.	LL	=	21.0	PSF
	DL	=	3.0	PSF
BOT CH.	LL	=	0.0	PSF
	DL	=	7.0	PSF
TOTAL LOAD		=	31.0	PSF

SPACING = 24.0 IN. C/C

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

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

(55 % OF 23.0 P.S.F. G.S.L. PLUS
 6.4 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")

CSI: TC=0.10 (B-C:1), BC=0.08 (E-F:4), WB=0.07 (C-E:1), SSI=0.09 (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 = 0.50

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

NAIL VALUES						
PLATE	GRIP (DRY)		SHEAR		SECTION	
	(PSI)		(PLI)		(PLI)	
	MAX	MIN	MAX	MIN	MAX	MIN
MT20	618	354	1667	822	2284	1656

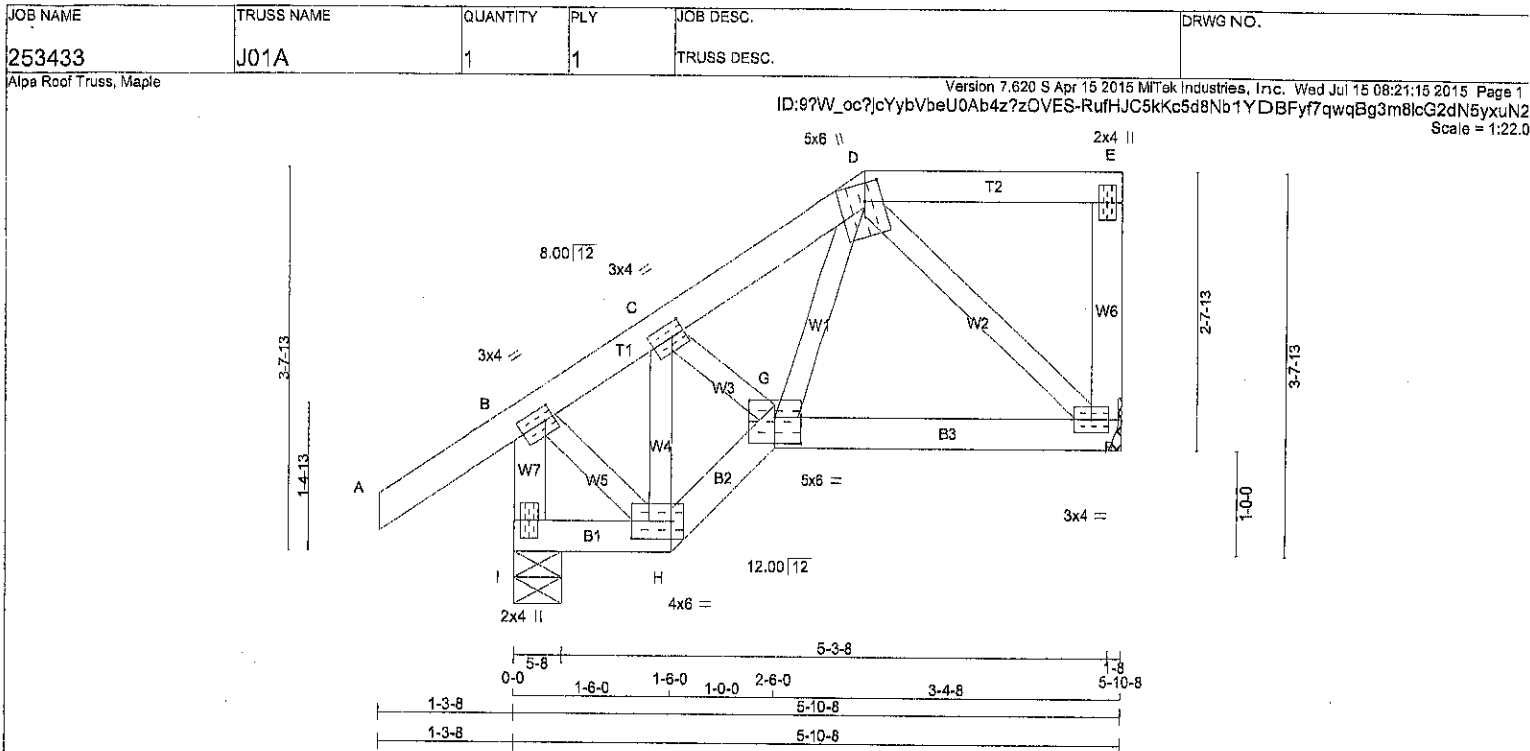
PLATE PLACEMENT TOL. = 0.250 Inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP = 0.41 (B) (INPUT = 0.80)
 JSI METAL = 0.10 (B) (INPUT = 1.00)



A-15073629



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

PLATES (table is in inches)					
JT	TYPE	PLATES	W	LEN	Y X
B	TMVW-I	MT20	3.0	4.0	1.50 1.00
C	TMWW-I	MT20	3.0	4.0	1.50 1.50
D	TTWW+m	MT20	5.0	6.0	2.00 2.00
E	TMV+p	MT20	2.0	4.0	
F	BMVW-I	MT20	3.0	4.0	
G	BBWW-I	MT20	5.0	6.0	3.00 3.00
H	BBWW-I	MT20	4.0	6.0	2.00 4.50
I	BMV+p	MT20	2.0	4.0	

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

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

BEARINGS

JT	FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG	REQD BRG
	VERT	HORZ	DOWN	HORZ	IN-SX	IN-SX
F	247	0	247	0	0	HANGER BY OTHERS
I	366	0	366	0	0	MIN. SEAT SIZE: 1-8

UNFACTORED REACTIONS

1ST CASE		MAX./MIN. COMPONENT REACTIONS					
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
F	174	117 / 0	0 / 0	0 / 0	0 / 0	58 / 0	0 / 0
I	256	188 / 0	0 / 0	0 / 0	0 / 0	68 / 0	0 / 0

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

BRACING

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

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	0 / 27	-70.5 -70.5	0.09 (1)	10.00	H-C	-174 / 0	0.03 (1)
B-C	-168 / 0	-70.5 -70.5	0.09 (1)	6.25	C-G	0 / 85	0.02 (1)
C-D	-213 / 0	-70.5 -70.5	0.04 (1)	6.25	G-D	0 / 101	0.02 (1)
D-E	0 / 0	-70.5 -70.5	0.07 (1)	10.00	D-F	-191 / 0	0.04 (1)
F-E	-88 / 0	0.0 0.0	0.01 (1)	7.81	B-H	0 / 147	0.03 (1)
I-B	-353 / 0	0.0 0.0	0.04 (1)	7.81			
I-H	0 / 0	-17.5 -17.5	0.01 (4)	10.00			
H-G	0 / 157	-17.5 -17.5	0.03 (1)	10.00			
G-F	0 / 139	-17.5 -17.5	0.07 (4)	10.00			

TOTAL WEIGHT = 28 lb

(M)

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH.	LL	=	21.0	PSF
	DL	=	3.0	PSF
BOT CH.	LL	=	0.0	PSF
	DL	=	7.0	PSF
TOTAL LOAD		=	31.0	PSF

SPACING = 24.0 IN. C/C

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

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

THIS DESIGN COMPLIES WITH:

- PART 9 OF OBC 2012, BCBC 2012, ABC 2014
- CSA 086-09
- TPIC 2011

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")

CSI: TC=0.09 (A-B:1), BC=0.07 (F-G:4), WB=0.04 (D-F:1), SSI=0.07 (D-E:1)

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

COMPANION LIVE LOAD FACTOR = 0.50

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

NAIL VALUES

PLATE GRIP(DRY) SHEAR	SECTION
(PSI)	(PLI)
MAX MIN	MAX MIN
MT20	618 354 1687 822 2284 1656

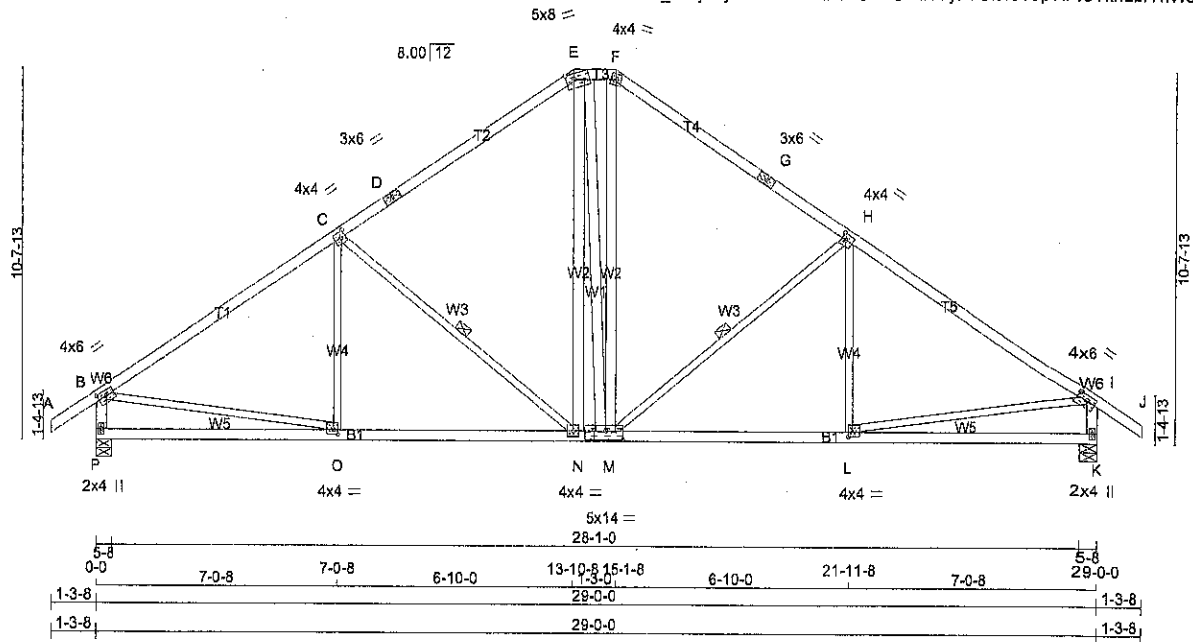
PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.47 (B) (INPUT = 0.90)
JSI METAL= 0.09 (B) (INPUT = 1.00)



A-15073628



LUMBER
N. L. G. A. RULES

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

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMVW-I	MT20	4.0	6.0	1.75	3.00
C	TMVW-I	MT20	4.0	4.0	2.00	1.50
D	TS-I	MT20	3.0	6.0		
E	TTWW-m	MT20	5.0	8.0	2.00	2.75
F	TTW-m	MT20	4.0	4.0		
G	TS-I	MT20	3.0	6.0		
H	TMVW-I	MT20	4.0	4.0	2.00	1.50
I	TMVW-I	MT20	4.0	6.0	1.75	3.00
K	BMV1+p	MT20	2.0	4.0		
L	BMVW-I	MT20	4.0	4.0	1.50	1.50
M	BSVWVW-I	MT20	5.0	14.0	3.00	6.50
N	BMVW-I	MT20	4.0	4.0		
O	BMVW-I	MT20	4.0	4.0	1.50	1.50
P	BMV1+p	MT20	2.0	4.0		

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

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

BEARINGS

JT	FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG	REQRD BRG
	VERT	HORZ	DOWN	HORZ		
P	1372	0	1372	0	5-8	1-8
K	1372	0	1372	0	5-8	1-8

UNFACTORED REACTIONS

JT	COMBINED	MAX./MIN. COMPONENT REACTIONS					
		SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
P	964	866 / 0	0 / 0	0 / 0	0 / 0	298 / 0	0 / 0
K	964	866 / 0	0 / 0	0 / 0	0 / 0	298 / 0	0 / 0

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.77FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00FT. OR RIGID CEILING DIRECTLY APPLIED.

1 LATERAL BRACE(S) REQUIRED AT 1/2 LENGTH OF C-N, H-M.
END VERTICAL(S) MUST BE SHEATHED OR HAVE BRACES AS INDICATED IN THE MAX. UNBRACED LENGTH COLUMN OF THE TABLE BELOW

LOADING

TOTAL LOAD CASES: (4)

CHORDS					WEBS				
MAX. FACTORED		FACTORED			MAX. FACTORED				
MEMB.	FORCE	VERT. LOAD	LC1	MAX	MAX	MEMB.	FORCE	MAX	
	(LBS)	(PLF)		CSI (LC)	UNBRAC		(LBS)	CSI (LC)	
FR-TO		FROM	TO		LENGTH	FR-TO			
A-B	0 / 27	-70.5	-70.5	0.09 (1)	10.00	O-C	-53 / 98	0.03 (4)	
B-C	-1487 / 0	-70.5	-70.5	0.53 (1)	4.77	C-N	-484 / 0	0.27 (1)	
C-D	-1105 / 0	-70.5	-70.5	0.48 (1)	5.40	N-E	0 / 343	0.06 (1)	
D-E	-1105 / 0	-70.5	-70.5	0.48 (1)	5.40	E-M	0 / 29	0.00 (1)	
E-F	-899 / 0	-70.5	-70.5	0.02 (1)	6.25	M-F	0 / 372	0.06 (1)	
F-G	-1106 / 0	-70.5	-70.5	0.49 (1)	5.39	M-H	-481 / 0	0.27 (1)	
G-H	-1106 / 0	-70.5	-70.5	0.49 (1)	5.39	L-H	-57 / 98	0.03 (1)	
H-I	-1486 / 0	-70.5	-70.5	0.53 (1)	4.77	B-O	0 / 1279	0.29 (1)	
I-J	0 / 27	-70.5	-70.5	0.09 (1)	10.00	L-I	0 / 1278	0.29 (1)	
P-B	-1322 / 0	0.0	0.0	0.14 (1)	7.03				
K-I	-1322 / 0	0.0	0.0	0.14 (1)	7.03				
P-O	0 / 0	-17.5	-17.5	0.22 (4)	10.00				
O-N	0 / 1284	-17.5	-17.5	0.32 (1)	10.00				
N-M	0 / 896	-17.5	-17.5	0.23 (1)	10.00				
M-L	0 / 1263	-17.5	-17.5	0.31 (1)	10.00				
L-K	0 / 0	-17.5	-17.5	0.21 (4)	10.00				

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH. LL = 21.0 PSF
DL = 3.0 PSF
BOT CH. LL = 0.0 PSF
DL = 7.0 PSF
TOTAL LOAD = 31.0 PSF

SPACING = 24.0 IN. C/C

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

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

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

(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 (0.97")
CALCULATED VERT. DEFL.(LL) = L/999 (0.06")
ALLOWABLE DEFL.(TL) = L/360 (0.97")
CALCULATED VERT. DEFL.(TL) = L/989 (0.12")

CSI: TC=0.53 (H-I:1), BC=0.32 (N-O:1), WB=0.29 (B-O:1), SI=0.20 (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 = 0.50

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

NAIL VALUES

PLATE GRIP(DRY) SHEAR SECTION (PSI) (PLI) (PLI)
MAX MIN MAX MIN MAX MIN
MT20 618 354 1667 822 2284 1656

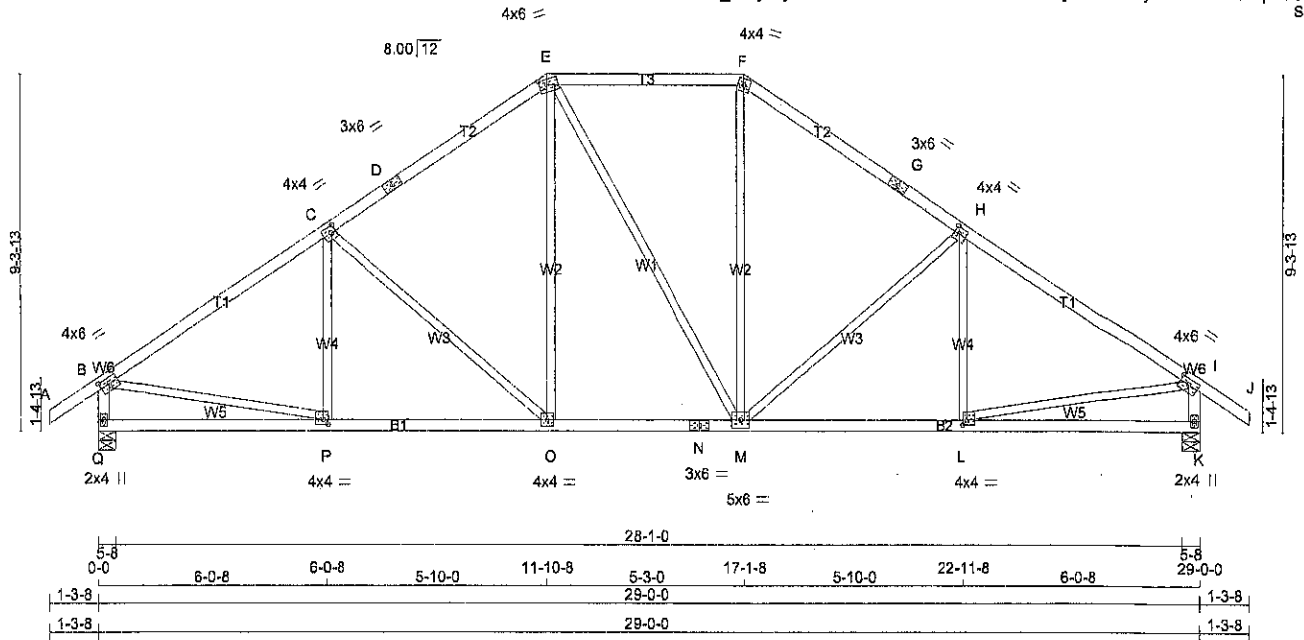
PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.73 (O) (INPUT = 0.90)
JSI METAL= 0.47 (O) (INPUT = 1.00)



A-14073611



TOTAL WEIGHT = 130 lb
(MIF)

LUMBER			
N. L. G. A. RULES			
CHORDS	SIZE	LUMBER	DESCR.
A - D	2x4	DRY	No.2 SPF
D - E	2x4	DRY	No.2 SPF
E - F	2x4	DRY	No.2 SPF
F - G	2x4	DRY	No.2 SPF
G - J	2x4	DRY	No.2 SPF
Q - B	2x4	DRY	No.2 SPF
K - I	2x4	DRY	No.2 SPF
Q - N	2x4	DRY	No.2 SPF
N - 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-t	MT20	4.0	6.0	1.75	3.00
C	TMVW-t	MT20	4.0	4.0	2.00	1.50
D	TS-t	MT20	3.0	6.0		
E	TTWW-m	MT20	4.0	6.0	1.75	2.50
F	TTW-m	MT20	4.0	4.0		
G	TS-t	MT20	3.0	6.0		
H	TMVW-t	MT20	4.0	4.0	2.00	1.50
I	TMVW-t	MT20	4.0	6.0	1.75	3.00
K	BMV1+p	MT20	2.0	4.0		
L	BMVW-t	MT20	4.0	4.0	1.50	1.50
M	BMVW-t	MT20	5.0	6.0		
N	BS-t	MT20	3.0	6.0		
O	BMVW-t	MT20	4.0	4.0		
P	BMVW-t	MT20	4.0	4.0	1.50	1.50
Q	BMV1+p	MT20	2.0	4.0		

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

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

BEARINGS		FACTORED		MAXIMUM FACTORED		INPUT		REQRD	
JT	GROSS REACTION	SNOW	DOWN	GROSS REACTION	DOWN	BRG	IN-SX	BRG	IN-SX
Q	1372	0	1372	0	0	5-8	1-8		
K	1372	0	1372	0	0	5-8	1-8		

UNFACTORED REACTIONS

JT	1ST LCASE	MAX/MIN. COMPONENT REACTIONS	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
Q	COMBINED	964	666 / 0	0 / 0	0 / 0	0 / 0	298 / 0	0 / 0
K	COMBINED	964	666 / 0	0 / 0	0 / 0	0 / 0	298 / 0	0 / 0

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.97FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00FT. OR RIGID CEILING DIRECTLY APPLIED.

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 UNBRACED LENGTH	MAX FACTORED FORCE (LBS)
FR-TO		FROM TO		FR-TO			
A-B	0 / 27	-70.5	-70.5 0.09 (1)	10.00	P-C	-109 / 63	0.05 (1)
B-C	-1492 / 0	-70.5	-70.5 0.38 (1)	4.97	C-O	-357 / 0	0.45 (1)
C-D	-1224 / 0	-70.5	-70.5 0.35 (1)	5.40	O-E	0 / 325	0.07 (1)
D-E	-1224 / 0	-70.5	-70.5 0.35 (1)	5.40	E-M	0 / 1	0.00 (1)
E-F	-998 / 0	-70.5	-70.5 0.26 (1)	5.94	M-F	0 / 326	0.07 (1)
F-G	-1224 / 0	-70.5	-70.5 0.35 (1)	5.40	M-H	-358 / 0	0.45 (1)
G-H	-1224 / 0	-70.5	-70.5 0.35 (1)	5.40	L-H	-110 / 62	0.05 (1)
H-I	-1491 / 0	-70.5	-70.5 0.38 (1)	4.97	B-P	0 / 1284	0.29 (1)
I-J	0 / 27	-70.5	-70.5 0.09 (1)	10.00	L-I	0 / 1284	0.29 (1)
Q-B	-1328 / 0	0.0	0.0 0.14 (1)	7.02			
K-I	-1328 / 0	0.0	0.0 0.14 (1)	7.02			
Q-P	0 / 0	-17.5	-17.5 0.15 (4)	10.00			
P-O	0 / 1284	-17.5	-17.5 0.28 (1)	10.00			
O-N	0 / 997	-17.5	-17.5 0.22 (1)	10.00			
N-M	0 / 997	-17.5	-17.5 0.22 (1)	10.00			
M-L	0 / 1264	-17.5	-17.5 0.28 (1)	10.00			
L-K	0 / 0	-17.5	-17.5 0.15 (4)	10.00			

DESIGN CRITERIA

SPECIFIED LOADS:
TOP CH. LL = 21.0 PSF
DL = 3.0 PSF
BOT CH. LL = 0.0 PSF
DL = 7.0 PSF
TOTAL LOAD = 31.0 PSF

SPACING = 24.0 IN. C/C

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

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

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

(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 (0.97")
CALCULATED VERT. DEFL.(LL)= L/999 (0.05")
ALLOWABLE DEFL.(TL)= L/360 (0.97")
CALCULATED VERT. DEFL.(TL)= L/999 (0.10")

CSI: TC=0.38 (B-C:1), BC=0.28 (O-P:1),
WB=0.45 (C-O:1), SS=0.17 (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 = 0.50

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

NAIL VALUES
PLATE GRIP(DRY) SHEAR SECTION
(PSI) (PLI) (PLI)
MAX MIN MAX MIN MAX MIN
MT20 818 364 1667 822 2284 1656

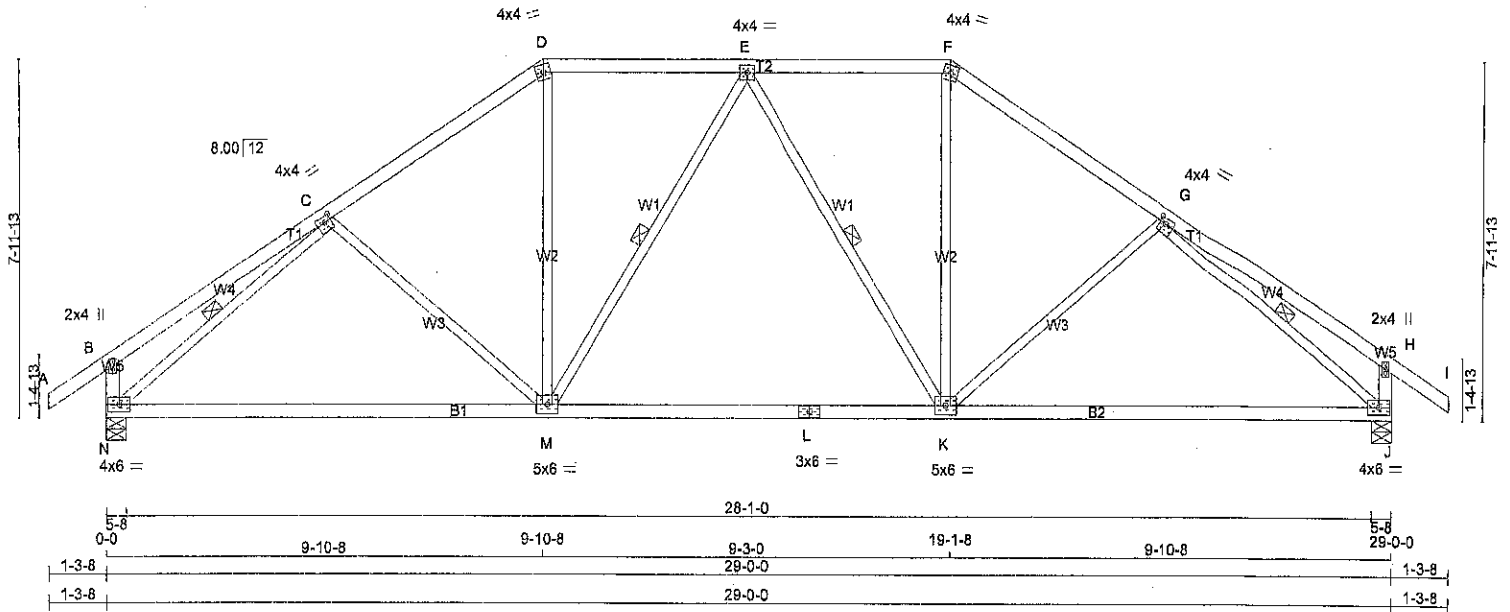
PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.75 (P) (INPUT = 0.90)
JSI METAL= 0.47 (P) (INPUT = 1.00)



A-15073610



TOTAL WEIGHT = 123 lb [M/F]

LUMBER

N. L. G. A. RULES

CHORDS	SIZE	LUMBER	DESCR.
A - D	2x4	DRY	No.2 SPF
D - F	2x4	DRY	No.2 SPF
F - I	2x4	DRY	No.2 SPF
N - B	2x4	DRY	No.2 SPF
J - H	2x4	DRY	No.2 SPF
N - L	2x4	DRY	No.2 SPF
L - J	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 TMV+p	MT20	2.0	4.0		
C TMWW-t	MT20	4.0	4.0	1.50	1.75
D TTW-m	MT20	4.0	4.0		
E TMWW-t	MT20	4.0	4.0		
F TTW-m	MT20	4.0	4.0		
G TMWW-t	MT20	4.0	4.0	1.50	1.75
H TMV+p	MT20	2.0	4.0		
J BMVW-t	MT20	4.0	6.0		
K BMVW-t	MT20	5.0	6.0		
L BS-t	MT20	3.0	6.0		
M BMVW-t	MT20	5.0	6.0		
N BMVW-t	MT20	4.0	6.0		

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

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

BEARINGS

JT	FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG IN-SX	REQRD BRG IN-SX
	VERT	HORZ	DOWN	HORZ		
N	1372	0	1372	0	5-8	1-8
J	1372	0	1372	0	5-8	1-8

UNFACTORED REACTIONS							
	1ST LCASE	MAX./MIN. COMPONENT REACTIONS					
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
N	984	868 / 0	0 / 0	0 / 0	0 / 0	298 / 0	0 / 0
J	984	868 / 0	0 / 0	0 / 0	0 / 0	298 / 0	0 / 0

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

BRACING
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 5.35FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00FT. OR RIGID CEILING DIRECTLY APPLIED.

1 LATERAL BRACE(S) REQUIRED AT 1/2 LENGTH OF E-M, E-K, C-N, G-J.
END VERTICAL(S) MUST BE SHEATHED OR HAVE BRACES AS INDICATED IN THE MAX. UNBRACED LENGTH COLUMN OF THE TABLE BELOW

LOADING									
TOTAL LOAD CASES: (4)									
CHORDS					WEBS				
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	LC1 MAX CSI (LC)	MAX UNBRAC LENGTH	MEMB.	MAX. FACTORED FORCE (LBS)	MAX CSI (LC)		
FR-TO		FROM	TO		FR-TO				
A-B	0 / 27	-70.5	-70.5	0.09 (1)	10.00	C-M	-144 / 22	0.12 (1)	
B-C	0 / 22	-70.5	-70.5	0.27 (1)	10.00	M-D	0 / 474	0.11 (1)	
C-D	-1345 / 0	-70.5	-70.5	0.24 (1)	5.35	M-E	-229 / 0	0.13 (1)	
D-E	-1106 / 0	-70.5	-70.5	0.20 (1)	5.80	E-K	-229 / 0	0.13 (1)	
E-F	-1106 / 0	-70.5	-70.5	0.20 (1)	5.80	K-F	0 / 474	0.11 (1)	
F-G	-1345 / 0	-70.5	-70.5	0.24 (1)	5.35	K-G	-144 / 22	0.12 (1)	
G-H	0 / 22	-70.5	-70.5	0.27 (1)	10.00	N-C	-1614 / 0	0.48 (1)	
H-I	0 / 27	-70.5	-70.5	0.09 (1)	10.00	G-J	-1614 / 0	0.48 (1)	
N-B	-230 / 0	0.0	0.0	0.02 (1)	7.81				
J-H	-230 / 0	0.0	0.0	0.02 (1)	7.81				
N-M	0 / 1208	-17.5	-17.5	0.46 (4)	10.00				
M-L	0 / 1222	-17.5	-17.5	0.47 (4)	10.00				
L-K	0 / 1222	-17.5	-17.5	0.47 (4)	10.00				
K-J	0 / 1208	-17.5	-17.5	0.46 (4)	10.00				

DESIGN CRITERIA

SPECIFIED LOADS:
TOP CH. LL = 21.0 PSF
DL = 3.0 PSF
BOT CH. LL = 0.0 PSF
DL = 7.0 PSF
TOTAL LOAD = 31.0 PSF

SPACING = 24.0 IN. C/C

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

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

THIS DESIGN COMPLIES WITH:
- PART 9 OF OBC 2012, BCBC 2012, ABC 2014
- CSA 088-09
- TPIC 2011

(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 (0.97")
CALCULATED VERT. DEFL.(LL) = L/999 (0.06")
ALLOWABLE DEFL.(TL) = L/360 (0.97")
CALCULATED VERT. DEFL.(TL) = L/896 (0.29")

CSI: TC=0.27 (B-C:1), BC=0.47 (K-M:4),
WB=0.48 (C-N:1), SSI=0.18 (D-E:1)

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

COMPANION LIVE LOAD FACTOR = 0.50

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

NAIL VALUES
PLATE GRIP(DRY) SHEAR SECTION
(PSI) (PLI) (PLI)
MAX MIN MAX MIN MAX MIN
MT20 618 354 1667 822 2284 1656

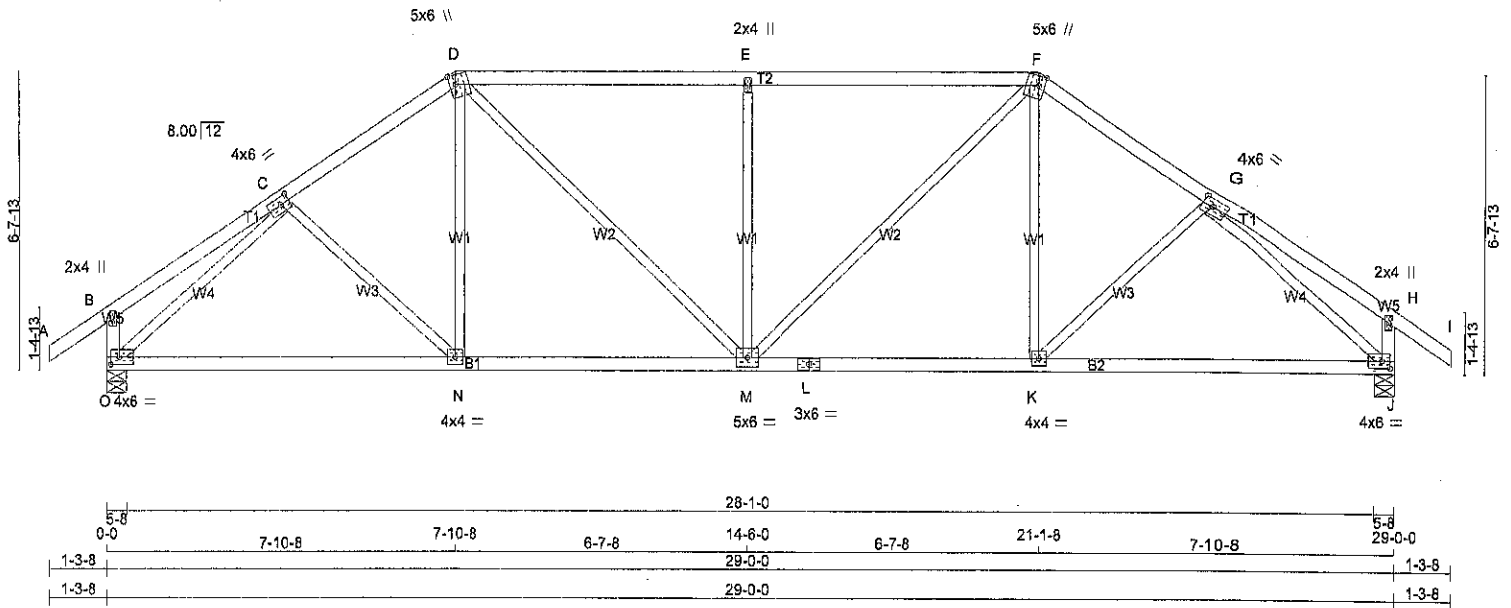
PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.88 (N) (INPUT = 0.90)
JSI METAL= 0.58 (G) (INPUT = 1.00)

A-42073609





LUMBER			
N. L. G. A. RULES			
CHORDS	SIZE	LUMBER	DESCR.
A - D	2x4	DRY	No.2
D - F	2x4	DRY	No.2
F - I	2x4	DRY	No.2
O - B	2x4	DRY	No.2
J - H	2x4	DRY	No.2
O - L	2x4	DRY	No.2
L - J	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-I	MT20	4.0	6.0	2.00	2.50
D	TTWW+m	MT20	5.0	6.0	2.50	1.50
E	TMW+w	MT20	2.0	4.0		
F	TTWW+m	MT20	5.0	6.0	2.50	1.50
G	TMWW-I	MT20	4.0	6.0	2.00	2.50
H	TMV+p	MT20	2.0	4.0		
J	BMVW1-I	MT20	4.0	6.0	2.00	2.25
K	BMWW-I	MT20	4.0	4.0		
L	BS-I	MT20	3.0	6.0		
M	BMWW-I	MT20	6.0	6.0		
N	BMWW-I	MT20	4.0	4.0		
O	BMVW1-I	MT20	4.0	6.0	2.00	2.25

NOTES- (1)

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

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

BEARINGS

	FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	REQD BRG
JT	VERT	HORZ	DOWN	HORZ
O	1372	0	1372	0
J	1372	0	1372	0

UNFACTORED REACTIONS

JT	1ST CASE	MAX/MIN. COMPONENT REACTIONS	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
O	964	666 / 0	0 / 0	0 / 0	0 / 0	0 / 0	298 / 0	0 / 0
J	964	666 / 0	0 / 0	0 / 0	0 / 0	0 / 0	298 / 0	0 / 0

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.83FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00FT. OR RIGID CEILING DIRECTLY APPLIED.

LOADING

TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX LC1 (LC)	MAX UNBRACED LENGTH	MEMB.	MAX. FACTORED FORCE (LBS)	MAX CS1 (LC)
FR-TO					FR-TO		
A-B	0 / 27	-70.5	-70.5 0.09 (1)	10.00	C-N	-15 / 48	0.02 (4)
B-C	0 / 17	-70.5	-70.5 0.16 (1)	10.00	N-D	0 / 161	0.05 (4)
C-D	-1423 / 0	-70.5	-70.5 0.15 (1)	5.33	D-M	0 / 481	0.11 (1)
D-E	-1518 / 0	-70.5	-70.5 0.44 (1)	4.83	M-E	-573 / 0	0.42 (1)
E-F	-1518 / 0	-70.5	-70.5 0.44 (1)	4.83	M-F	0 / 481	0.11 (1)
F-G	-1423 / 0	-70.5	-70.5 0.15 (1)	5.33	K-F	0 / 161	0.05 (4)
G-H	0 / 17	-70.5	-70.5 0.16 (1)	10.00	K-G	-15 / 48	0.02 (4)
H-I	0 / 27	-70.5	-70.5 0.09 (1)	10.00	O-C	-1619 / 0	0.77 (1)
O-B	-205 / 0	0.0	0.0 0.02 (1)	7.81	G-J	-1619 / 0	0.77 (1)
J-H	-205 / 0	0.0	0.0 0.02 (1)	7.81			
O-N	0 / 1179	-17.5	-17.5 0.34 (4)	10.00			
N-M	0 / 1171	-17.5	-17.5 0.35 (4)	10.00			
M-L	0 / 1171	-17.5	-17.5 0.35 (4)	10.00			
L-K	0 / 1171	-17.5	-17.5 0.35 (4)	10.00			
K-J	0 / 1179	-17.5	-17.5 0.34 (4)	10.00			

TOTAL WEIGHT = 122 lb

(M/F)

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH.	LL = 21.0	PSF
DL = 3.0	PSF	
BOT CH.	LL = 0.0	PSF
DL = 7.0	PSF	
TOTAL LOAD = 31.0	PSF	

SPACING = 24.0 IN. C/C

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

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

THIS DESIGN COMPLIES WITH:

- PART 9 OF OBC 2012, BCBC 2012, ABC 2014
- CSA 086-09
- TPIC 2011

(56 % OF 23.0 P.S.F. G.S.L. PLUS 5.4 P.S.F. RAIN LOAD EQUALS 21.0 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL)= L/360 (0.97")
CALCULATED VERT. DEFL.(LL)= L/999 (0.06")
ALLOWABLE DEFL.(TL)= L/360 (0.97")
CALCULATED VERT. DEFL.(TL)= L/699 (0.14")

CSI: TC=0.44 (D-E:1), BC=0.35 (M-N:4), WB=0.77 (C-O:1), SSI=0.23 (D-E:1)

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

COMPANION LIVE LOAD FACTOR = 0.50

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	MAX MIN
MT20	618	354	1667 822 2284 1866

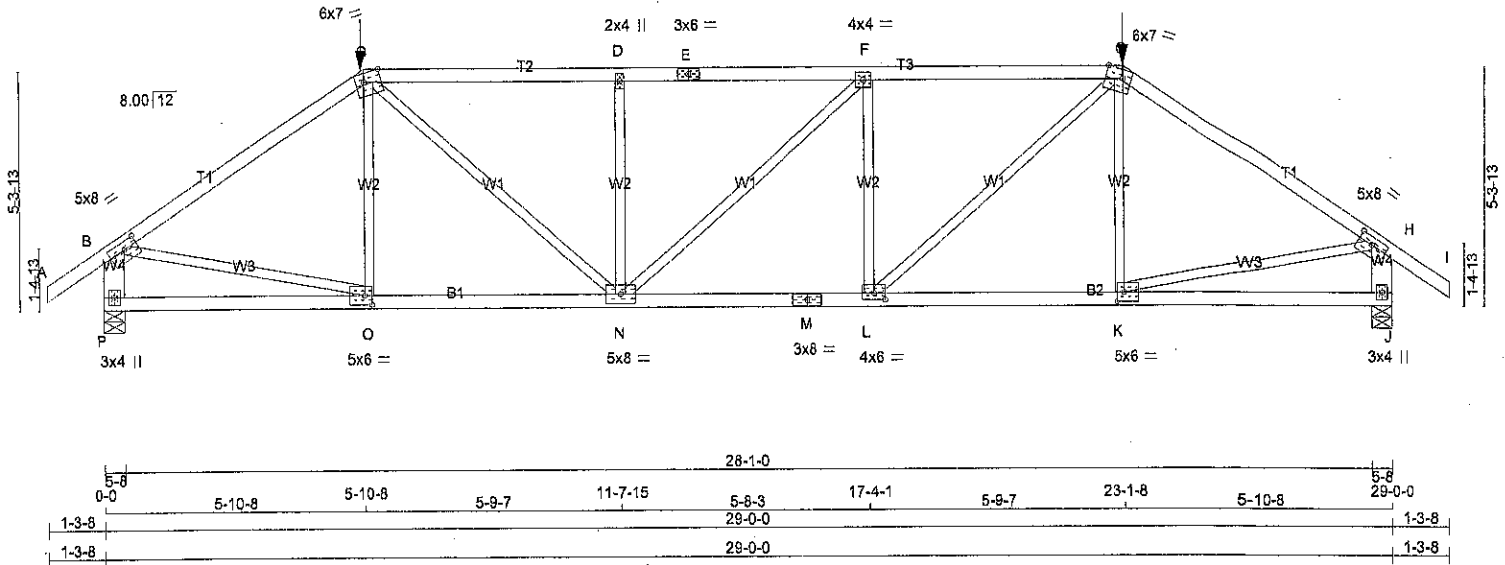
PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.81 (O) (INPUT = 0.90)
JSI METAL= 0.40 (C) (INPUT = 1.00)



A-14073608



TOTAL WEIGHT = 119 lb [M]

LUMBER			
N. L. G. A. RULES			
CHORDS	SIZE	LUMBER	DESCR.
A - C	2x4	DRY	No.2
C - E	2x4	DRY	1850F 1.5E
E - G	2x4	DRY	1650F 1.5E
G - I	2x4	DRY	No.2
P - B	2x6	DRY	No.2
J - H	2x6	DRY	No.2
P - M	2x4	DRY	No.2
M - J	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	TMVW-I	MT20	5.0	8.0	2.00	3.75
C	TTWW-m	MT20	6.0	7.0	Edge	4.75
D	TMW+w	MT20	2.0	4.0		
E	TS-I	MT20	3.0	6.0		
F	TMVW-I	MT20	4.0	4.0		
G	TTWW-m	MT20	6.0	7.0	Edge	4.75
H	TMVW-I	MT20	5.0	8.0	2.00	3.75
J	BMV1+P	MT20	3.0	4.0		
K	BMVW-I	MT20	5.0	6.0	2.50	2.00
L	BMVW-I	MT20	4.0	6.0	1.75	3.00
M	BS-I	MT20	3.0	8.0		
N	BMVW-I	MT20	5.0	6.0		
O	BMVW-I	MT20	5.0	6.0	2.50	2.00
P	BMV1+P	MT20	3.0	4.0		

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

HANGERS NOTES

1)

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

BEARINGS

JT	FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG IN-SX	REQRD BRG IN-SX
	VERT	HORZ	DOWN	HORZ		
P	2508	0	2508	0	5-8	2-11
J	2508	0	2508	0	5-8	2-11

UNFACTORED REACTIONS

JT	1ST LCASE COMBINED		MAX./MIN. COMPONENT REACTIONS		WIND	DEAD	SOIL
	SNOW	LIVE	PERM	LIVE			
P	1767	1197/0	0/0	0/0	0/0	671/0	0/0
J	1767	1197/0	0/0	0/0	0/0	671/0	0/0

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.25FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00FT. OR RIGID CEILING DIRECTLY APPLIED.

LOADING

TOTAL LOAD CASES: (4)

MEMB.	CHORDS MAX. FACTORED FORCE (LBS)		FACTORED VERT. LOAD (PLF)		MAX. CSI (LC)	WEBS MAX. FACTORED FORCE (LBS)		MAX. CSI (LC)
	FR-TO	FROM	TO	FROM		FR-TO	FROM	
A-B	0/27	-70.5	-70.5	0.10 (1)	10.00	O-C	-222/113	0.10 (1)
B-C	-3003/0	-70.5	-70.5	0.87 (1)	3.25	C-N	0/1599	0.40 (1)
C-D	-3700/0	-138.7	-138.7	0.78 (1)	3.31	N-D	-860/0	0.37 (1)
D-E	-3700/0	-138.7	-138.7	0.78 (1)	3.30	N-F	-3/0	0.00 (1)
E-F	-3700/0	-138.7	-138.7	0.78 (1)	3.30	L-F	-860/0	0.37 (1)
F-G	-3702/0	-138.7	-138.7	0.79 (1)	3.30	L-G	0/1602	0.40 (1)
G-H	-3003/0	-70.5	-70.5	0.87 (1)	3.25	K-G	-223/113	0.10 (1)
H-I	0/27	-70.5	-70.5	0.10 (1)	10.00	B-O	0/2536	0.63 (1)
P-B	-2425/0	0.0	0.0	0.18 (1)	6.58	K-H	0/2536	0.63 (1)
J-H	-2425/0	0.0	0.0	0.18 (1)	6.58			
P-O	0/0	-34.5	-34.5	0.32 (4)	10.00			
O-N	0/2492	-34.5	-34.5	0.82 (1)	10.00			
N-M	0/3702	-34.5	-34.5	0.76 (1)	10.00			
M-L	0/3702	-34.5	-34.5	0.76 (1)	10.00			
L-K	0/2491	-34.5	-34.5	0.61 (1)	10.00			
K-J	0/0	-34.5	-34.5	0.31 (4)	10.00			

FACTORED CONCENTRATED LOADS (LBS)

JT	LOC.	LC1	MAX-	MAX+	FACE	DIR.	TYPE
C	5-10-8	-302	-302	--	FRONT	VERT	TOTAL
G	23-1-8	-302	-302	--	FRONT	VERT	TOTAL

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH. LL	=	21.0	PSF
DL	=	3.0	PSF
BOT CH. LL	=	0.0	PSF
DL	=	7.0	PSF
TOTAL LOAD	=	31.0	PSF

SPACING = 24.0 IN./C/C

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

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

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

THIS DESIGN COMPLIES WITH:

- PART 8 OF OBC 2012, BCBC 2012, ABC 2014
- CSA 086-09
- TPIC 2011

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

ALLOWABLE DEFL.(LL) = L/360 (0.97")
CALCULATED VERT. DEFL.(LL) = L/999 (0.16")
ALLOWABLE DEFL.(TL) = L/360 (0.97")
CALCULATED VERT. DEFL.(TL) = L/999 (0.31")

CSI: TC=0.87 (B-C:1), BC=0.76 (L-N:1), WB=0.63 (B-O:1), SS=0.41 (F-G:1)

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

COMPANION LIVE LOAD FACTOR = 0.50

AUTOSOLVE HEELS OFF

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

NAIL VALUES

PLATE	GRIP(DRY)	SHEAR (PSI)	SECTION (PLI)
	(PSI)	(PLI)	(PLI)
MAX MIN	MAX MIN	MAX MIN	MAX MIN
MT20	618 354	1687 522	2284 1056

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.88 (O) (INPUT = 0.90)
JSI METAL= 0.99 (M) (INPUT = 1.00)

A-15073607

CONTINUED ON PAGE 2

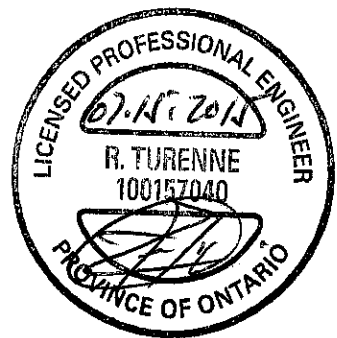


HANGERS NOTES

1) SPECIAL HANGER(S) OR CONNECTION(S) REQUIRED TO SUPPORT CONCENTRATED LOAD(S) 301.8 lbs FACTORED DOWN AT 23-1-8, AND 301.8 lbs FACTORED DOWN AT 5-10-8 ON TOP CHORD. DESIGN FOR UNSPECIFIED CONNECTION(S) IS DELEGATED TO THE BUILDING DESIGNER.

NOTES: (1)

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



A-15073607(2)

LUS – Double Shear Joist Hangers

SIMPSON
Strong-Tie

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.

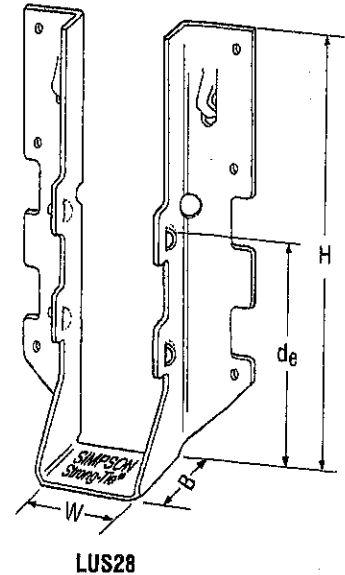
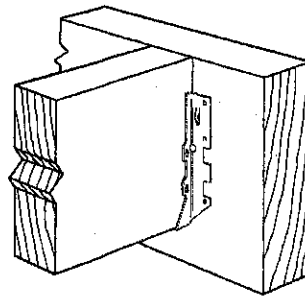
INSTALLATION:

- 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:

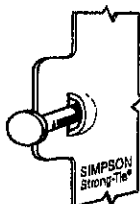
- These hangers cannot be modified.

Typical LUS Installation



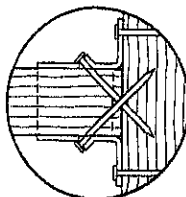
Model No.	Ga	Dimensions (in)				Fasteners		Factored Resistance (lbs)			
		W	H	B	d _e ¹	Face	Joist	D.Fir-L		S-P-F	
								Uplift (K _p =1.15)	Normal (K _p =1.00)	Uplift (K _p =1.15)	Normal (K _p =1.00)
LUS24	18	1½	3½	1¾	1½	4-10d	2-10d	710	1630	645	1155
LUS24-2	18	3½	3½	2	1½	4-16d	2-16d	835	2020	590	1435
LUS26	18	1½	4¾	1¾	3½	4-10d	4-10d	1420	2170	1290	1630
LUS26-2	18	3½	4¾	2	4	4-16d	4-16d	1720	2595	1545	1920
LUS26-3	18	4¾	4¾	2	3½	4-16d	4-16d	1720	2595	1545	2340
LUS28	18	1½	6¾	1¾	3¾	6-10d	4-10d	1420	2520	1290	1790
LUS28-2	18	3½	7	2	4	6-16d	4-16d	1720	3325	1545	2575
LUS28-3	18	4¾	6¾	2	3¾	6-16d	4-16d	1720	3325	1545	2375
LUS210	18	1½	7¾	1¾	3¾	8-10d	4-10d	1420	2785	1290	2210
LUS210-2	18	3½	9	2	6	8-16d	6-16d	2580	4500	2320	3195
LUS210-3	18	4¾	8¾	2	5¾	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.

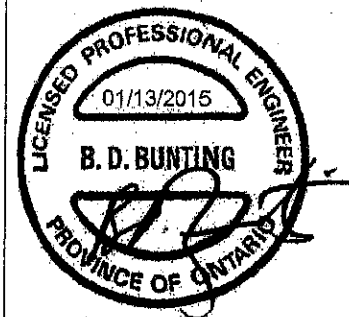


Dome Double Shear Nailing prevents tabs breaking off (available on some models).

U.S. Patent
5,663,580



Double Shear Nailing
Top View.



800-999-5099
www.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:

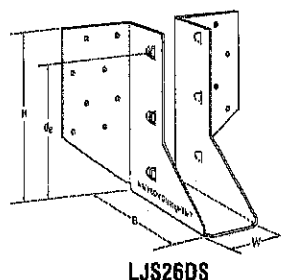
- Factored resistances are in accordance with CSA O86-14
- Uplift resistances have been increased 15%
No further increase is permitted
- Wood shear is not considered in the factored resistances given. The specifier must ensure that the joist and header capacities are capable of withstanding these loads.

INSTALLATION:

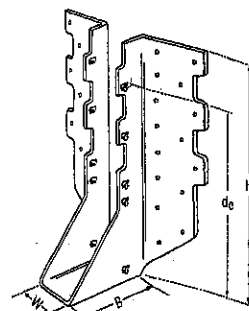
- Use all specified fasteners
- Nails: 16d = 0.162" dia. x 3½" long common wire
- Double shear nails must be driven at an angle through the joist or truss into the header to achieve the table loads
- Not designed for welded or nailer applications

OPTIONS:

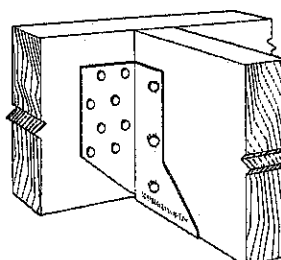
- See current catalogue for options



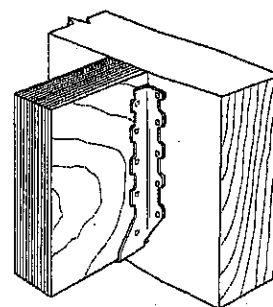
LJS26DS



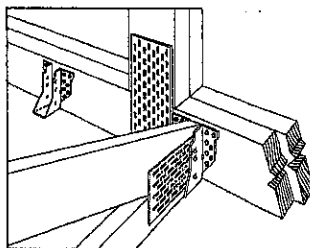
HUS210
(HUS26, HUS28, similar)



Typical LJS26DS
Installation



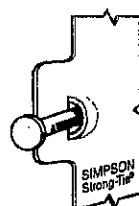
Typical HUS
Installation



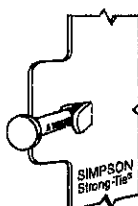
Typical HUS Installation
(Truss Designer to provide fastener
quantity for connecting multiple
members together)

Model No.	Ga	Dimensions (in)				Fasteners		Factored Resistance (lbs)			
		W	H	B	d _e ¹	Face	Joist	D. Fir-L		S-P-F	
								Uplift (K _e =1.15)	Normal (K _e =1.00)	Uplift (K _e =1.15)	Normal (K _e =1.00)
LJS26DS	18	1 9/16	5	3 1/2	4 5/8	16-16d	6-16d	2055	4265	1460	4115
HUS26	16	1 1/8	5 1/8	3	3 1/16	14-16d	6-16d	2705	4940	2065	3875
HUS28	16	1 1/8	7 1/32	3	6 1/32	22-16d	8-16d	3605	5365	2675	4345
HUS210	16	1 1/8	9 1/32	3	7 3/32	30-16d	10-16d	4505	5795	4010	4740
HUS1.81/10	16	1 1/16	9	3	8	30-16d	10-16d	4505	6450	4010	5200

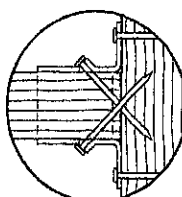
1. d_e is the distance from the seat of the hanger to the highest joist nail.



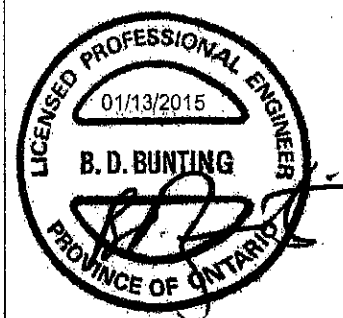
Double
Shear
Nailing
prevents tabs
breaking off
(available on
some models).
U.S. Patent
5,663,580



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



Double
Shear
Nailing
Top View.



800-999-5099
www.strongtie.com

HHUS – Double Shear Joist Hangers

SIMPSON
Strong-Tie

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

MATERIAL: 14 gauge

FINISH: G90 galvanized

DESIGN:

- Factored resistances are in accordance with CSA 086-14
- Uplift resistances have been increased 15%. No further increase is permitted.
- Wood shear is not considered in the factored resistances given. The specifier must ensure that the joist and header capacities are capable of withstanding these loads.

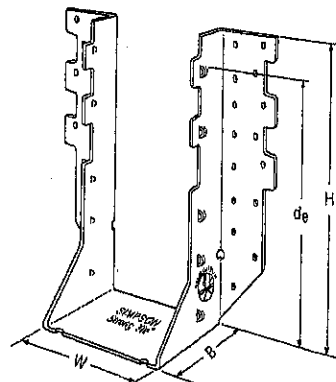
INSTALLATION:

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

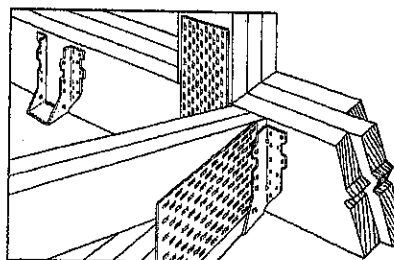
OPTIONS:

- See current catalogue for options

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

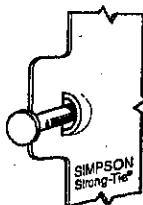


HHUS410



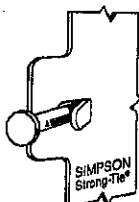
Model No.	Ga	Dimensions (in)					Fasteners		Factored Resistance (lbs)			
		W	H	B	d _g ¹	Face	Joist		D.Fir-L		S-P-F	
									Uplift (K _D =1.15)	Normal (K _D =1.00)	Uplift (K _D =1.15)	Normal (K _D =1.00)
HHUS26-2	14	3 1/8	5 1/16	3	3 15/16	14-16d	6-16d		2850	7335	2065	5205
HHUS28-2	14	3 3/8	7 1/32	3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

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

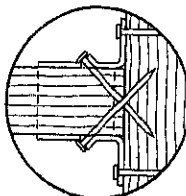


Dome Double
Shear Nailing
prevents tabs
breaking off
(available on
some models).

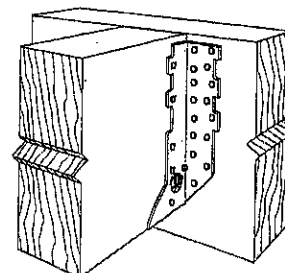
U.S. Patent
5,603,580



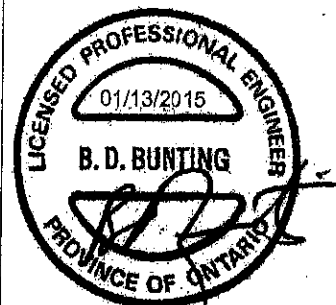
Double
Shear
Nailing
Side
View. Do
not bend
tab back.



Double
Shear
Nailing
Top View.

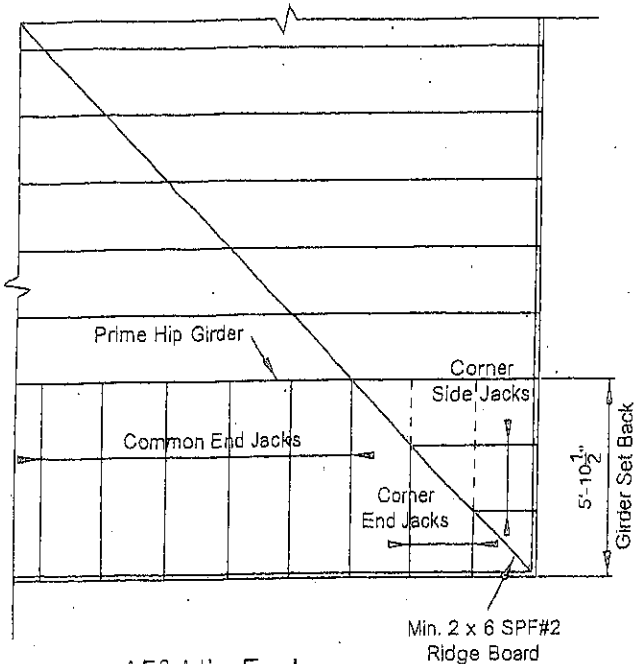


Typical HHUS
Installation



800-999-5099
www.strongtie.com

STRACON ENGINEERING INC.



45° Hip End

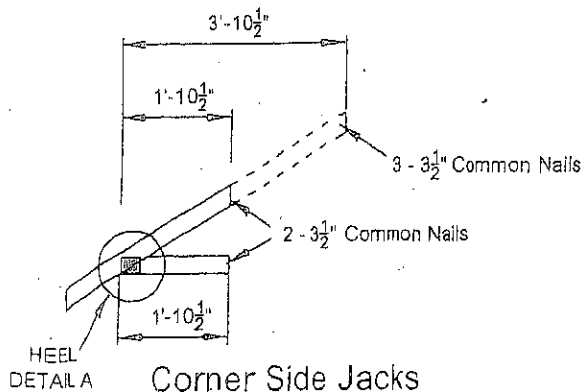
LUMBER SPECIFICATION

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

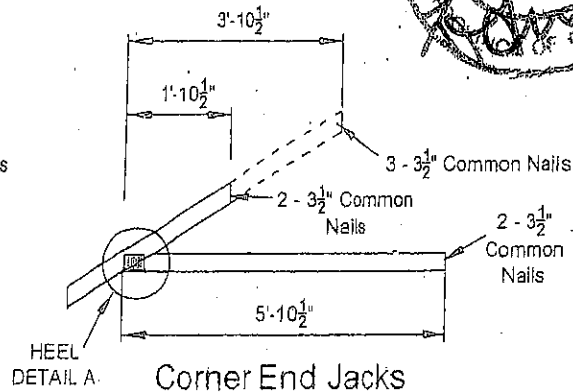
DESIGN LOAD

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

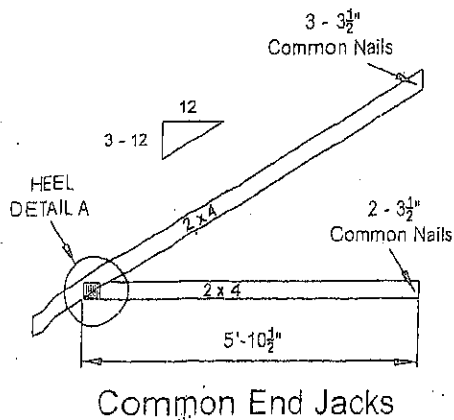
TOTAL LOAD : 50.5 P.S.F.



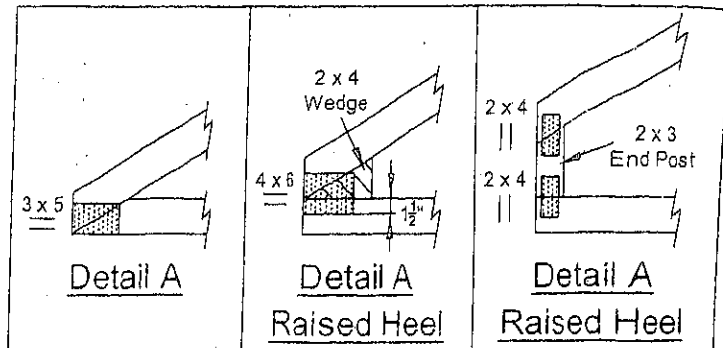
Corner Side Jacks



Corner End Jacks



Common End Jacks



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

CS-51008