

NE0618-002**GREEN YORK HOMES - GRANELLI HOME CORP - LIANA 2 ELEV 2****RESPONSIBILITIES**

THIS DESIGN IS FOR AN INDIVIDUAL BUILDING COMPONENT AND HAS BEEN BASED ON INFORMATION PROVIDED BY THE DESIGN OFFICE OF KOTT LUMBER. THE UNDERSIGNED ENGINEER DISCLAIMS ANY RESPONSIBILITY FOR DAMAGES AS A RESULT OF FAULTY OR INCORRECT INFORMATION, SPECIFICATION AND/OR DESIGNS FURNISHED TO THE ENGINEER. THE UNDERSIGNED ENGINEER IS ONLY RESPONSIBLE FOR THE STRUCTURAL INTEGRITY OF THIS BUILDING COMPONENT FOR THE CONDITIONS AND LOADS SHOWN ON THIS DRAWING. THE STRUCTURAL INTEGRITY OF THE BUILDING AND THE VERIFICATION OF THE DIMENSIONS AND THE DESIGN LOADS USED ARE THE RESPONSIBILITY OF THE BUILDING DESIGNER.

TRUSSES ARE DESIGNED IN CONFORMANCE WITH THE RELEVANT SECTIONS OF THE NATIONAL BUILDING CODE OF CANADA OR THE CANADIAN CODE FOR FARM BUILDINGS, WHICHEVER APPLIES TO THE BUILDING TYPE INDICATED ON THE DRAWING

IT IS THE RESPONSIBILITY OF KOTT LUMBER TO ENSURE THAT TRUSSES ARE MANUFACTURED IN CONFORMANCE WITH THESE DESIGNS AND WITH THE SPECIFICATIONS OUTLINED BELOW. THE UNDERSIGNED ENGINEER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

USE AND OCCUPANCY

- The building is of the type indicated on the drawing

LOADING

- The truss loading intensity and distribution as well as load transfer mechanism is that indicated on the drawing
- No buildings, trees, parapets or other projections higher than the roof for which the trusses are used are located within a distance less than ten (10) times the difference in height, or five metres (16 ft) whichever is greater, unless the drawing indicates that the snow drifting has been taken into account

HANDLING, INSTALLATION AND BRACING

- The trusses must be handled and installed by a qualified professional as per the supplied document titled *Information for Truss Installers* and the BCSI-B1 and BCSI-B3 Summary Sheets
- The compression chords are laterally braced by continuous rigid diaphragm sheathing or as specified on the drawing
- Temporary and permanent bracing must be installed as indicated on the truss drawing and according to the BCSI-B1 and BCSI-B3 Summary Sheets. Bracing for the lateral stability of the truss is to be provided by the building designer
- **It is recommended that a Professional Engineer's advice be obtained for the bracing of trusses spanning more than 12.37m (40'-7")**

SUPPORTS

- The trusses are to be supported at the bearing points indicated and anchored to the supports where considered necessary by the designer of the overall structure
- Bearing sizes shown are the minimum required to prevent crushing of the truss members and do not necessarily take into account stability of the overall building structure
- Elevation of bearings must be carefully checked and shimmed to alignment for solid bearings
- Adequate wood truss bearing is the responsibility of the building designer.

DIMENSIONS

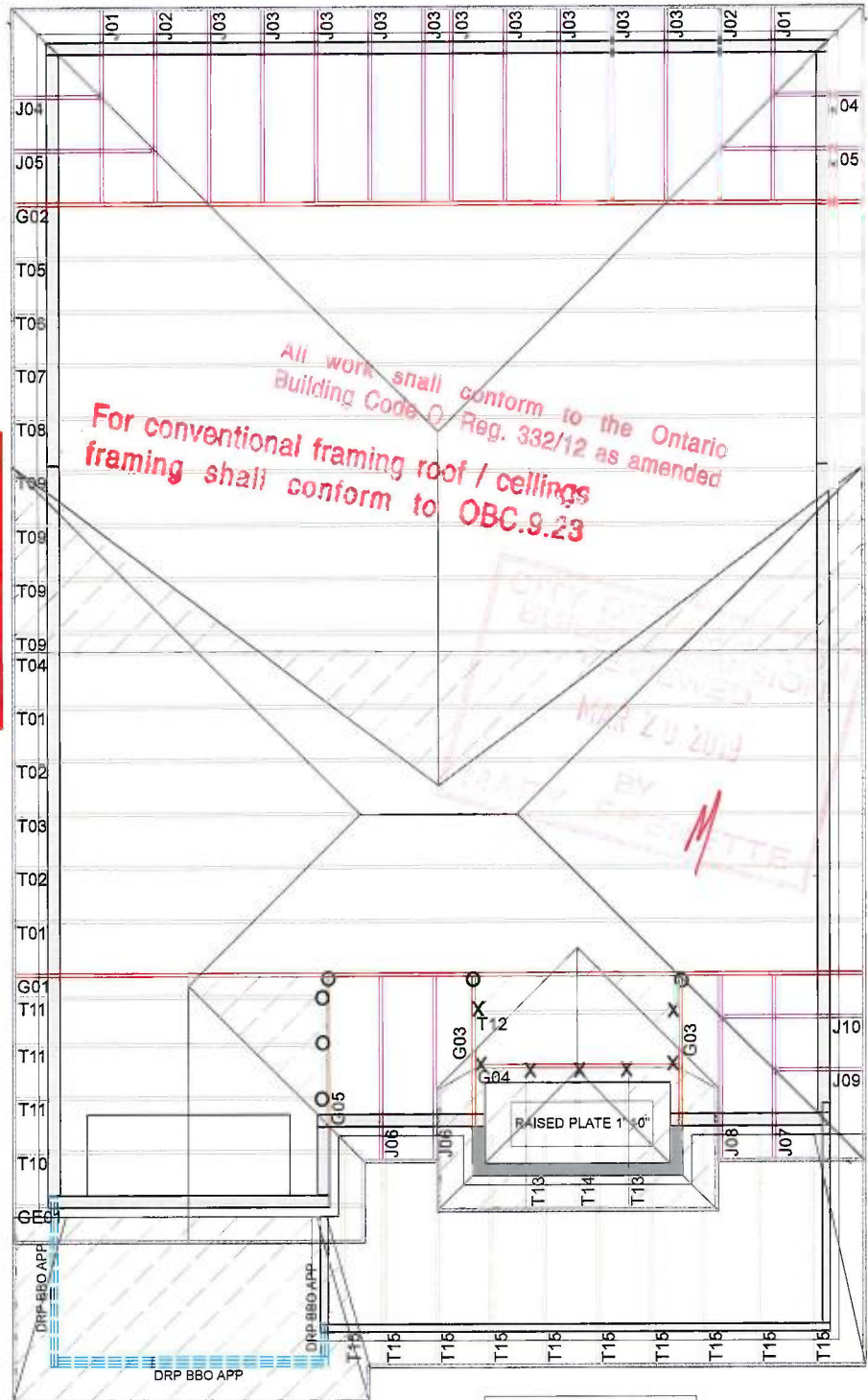
- Geometry of the truss and dimensions indicated on the drawing are identical to those of the installed truss.

Layout based on plans provided by
Jardin Design Group Inc.
Revision #2 dated May 22, 2018

THIS CERTIFICATION IS FOR THE ENGINEERING REVIEW OF STRUCTURAL COMPONENTS SHOWN ON THIS DRAWING AND IS LIMITED TO THE COMPONENTS SUPPLIED BY KOTT LUMBER FOR THE LOADS AND CONDITIONS SHOWN ON THE CALCULATION PAGE OF EACH COMPONENT. THE PLACEMENT OF THESE COMPONENTS ON THIS LAYOUT IS SHOWN FOR REFERENCE ONLY. ROOF TRUSSES MUST BE INSTALLED ACCORDING TO MANUFACTURER'S GUIDELINES AT 24" C/C UNLESS NOTED OTHERWISE. CONVENTIONAL FRAMING SHOWN ON THE LAYOUT MUST BE DESIGNED AND APPROVED BY THE PROJECT ENGINEER. TEMPORARY AND PERMANENT BRACINGS OF THE ROOF AND BUILDING ARE THE RESPONSIBILITY OF THE PROJECT ENGINEER AND TO CONFORM TO BCSI GUIDELINES.



ENG.JOB:NE0618-002



GARAGE TOP OF PLATE
TO MATCH UNDERSIDE
OF SOFFIT

ROOF TRUSS LAYOUT

19-447248.RR.



HANGER LEGEND

X - LUS24
- HGUS26

O - LJS26DS
% - HGUS26-2

DESIGN CRITERIA
SPECIFIED LOADS:
TOP CH. LL = 23.3 psf
DL = 3.0 psf
BOT CH. LL = 0.0 psf
DL = 7.0 psf
TOTAL LOAD = 33.3 psf

SPACING @ 24" CENTERS.
THIS TRUSS SYSTEM IS DESIGN FOR RESIDENTIAL
OR SMALL BUILDING REQUIREMENTS OF
PART 9, NBC 2010

THIS DESIGN COMPLIES WITH PART 9 OF OBC 2012,
BCBC 2012, ABC 2012, CSA 085-09, TFC 2011

ALLOWABLE DEFLECTION OF EACH COMPONENT = L/360

Model:	LIANA 2 ELE 2
Customer:	GREEN YORK HOMES
Project:	GRANELLI HOME
Location:	BRAMPTON, ON
Drawn By:	DM
Date:	5/30/2018

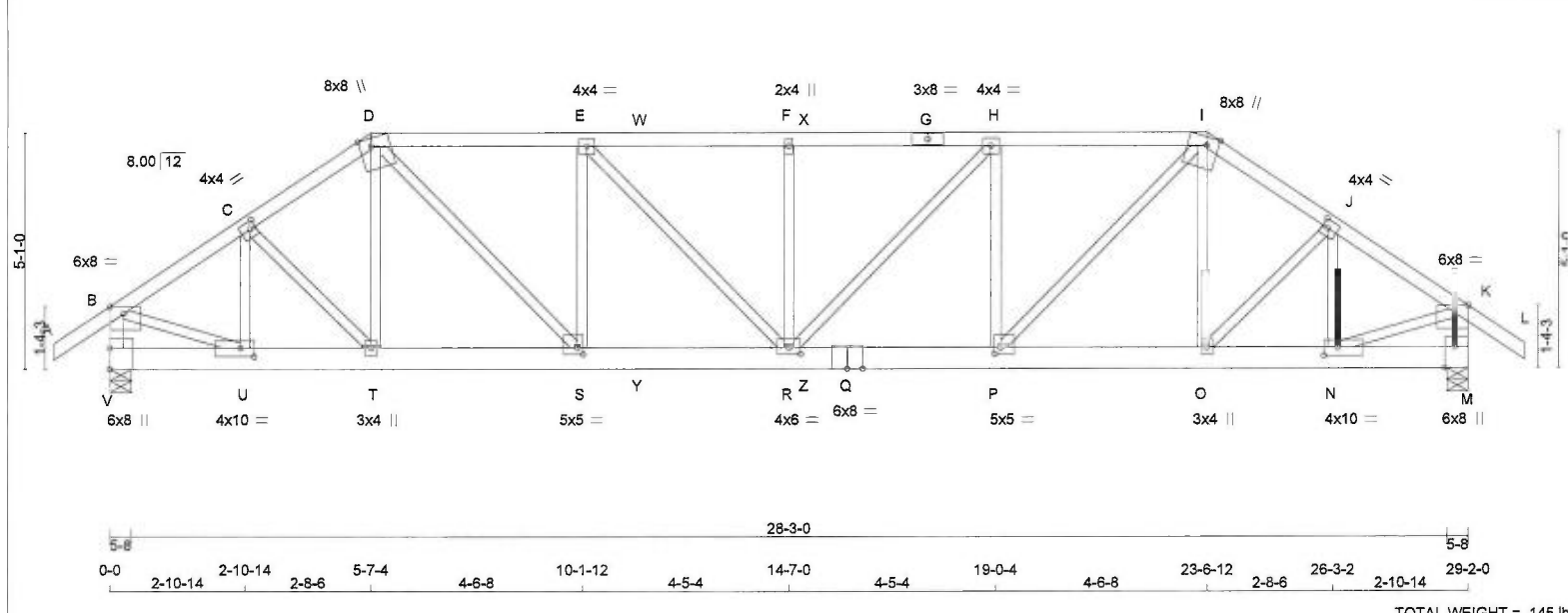
SIZE AND LOCATION OF CONVENTIONAL FRAMING IS APPROXIMATE. ALL AREAS MAY NOT BE SHOWN. REFER TO ARCHITECTURAL PLANS FOR DETAILS.

ALL CONVENTIONAL FRAMING TO CONFORM WITH PART 9 OF THE O.B.C RAFTER THAT CROSS MEET OVER TRUSSES TO BE 2X4 SPF @ 24" O/C WITH 2X4 VERT POST TO THE TRUSS BELOW EA CROSS PT. VERT POS. THAN 6" TO HAVE A LATERAL BRACING SO THAT THE DISTANCE BETEN PT & VERT ROWS OF BRACING DOES NOT EXCEED 6'

Version 8.210 S Mar 12 2018 MITek Industries, Inc. Sat Jun 2 11:38:20 2018 Page 1

ID:JiDzXONJoFa2XdT?3zOcwzBMzn-1fKuxb13hmNqUzAlr7_Pnzd4OVCGu_e1BTWLUizAlc?

Scale = 1:49.4



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 - L 2x4 DRY No.2 SPF V - B 2x4 DRY No.2 SPF M - K 2x4 DRY No.2 SPF V - Q 2x6 DRY No.2 SPF Q - M 2x6 DRY No.2 SPF ALL WEBS 2x3 DRY No.2 SPF EXCEPT DRY: SEASONED LUMBER.				DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER BEARINGS FACTORED GROSS REACTION MAXIMUM FACTORED GROSS REACTION INPUT REQ'D JT VERT HORZ DOWN HORZ UPLIFT BRG IN-SX BRG IN-SX V 2709 0 2709 0 0 5-8 5-8 M 3183 0 3183 0 0 5-8 5-8 UNFACTORED REACTIONS 1ST LCASE MAX./MIN. COMPONENT REACTIONS JT COMBINED SNOW LIVE PERM.LIVE WIND DEAD SOIL V 1903 1320 / 0 0 / 0 0 / 0 583 / 0 0 / 0 M 2238 1542 / 0 0 / 0 0 / 0 696 / 0 0 / 0 BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) V, M BRACING TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 2.44 FT. MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED. ALL PITCH BREAKS AND PERIMETER CORNER JOINTS MUST BE Laterally RESTRAINED. LOADING TOTAL LOAD CASES: (4) CHORDS WEBS MEMB. MAX. FACTORED FORCE (LBS) FACTORED VERT. LOAD (PLF) MAX. FACTORED VERT. LOAD (LC) MAX. FACTORED VERT. LOAD (LC) UNBRACED LENGTH FR-TO MEMB. MAX. FACTORED FORCE (LBS) MAX. FACTORED VERT. LOAD (LC) FR-TO FROM TO A-B 0 / 28 -77.4 -77.4 0.10 (1) 10.00 U-C -866 / 0 0.17 (1) B-C -2958 / 0 -77.4 -77.4 0.21 (1) 3.86 C-T 0 / 506 0.13 (1) C-D -3410 / 0 -77.4 -77.4 0.23 (1) 3.59 T-D -172 / 0 0.06 (1) D-E -4591 / 0 -77.4 -77.4 0.68 (1) 2.69 D-S 0 / 2551 0.63 (1) E-W -5133 / 0 -77.4 -77.4 0.77 (1) 2.44 S-E -1028 / 0 0.38 (1) W-F -5133 / 0 -136.2 -136.2 0.77 (1) 2.44 E-R 0 / 790 0.20 (1) F-X -5133 / 0 -136.2 -136.2 0.68 (1) 2.56 R-F -473 / 0 0.17 (1) X-G -5133 / 0 -77.4 -77.4 0.68 (1) 2.56 R-H 0 / 827 0.20 (1) G-H -5133 / 0 -77.4 -77.4 0.68 (1) 2.56 P-H -966 / 0 0.36 (1) H-I -4566 / 0 -77.4 -77.4 0.59 (1) 2.83 P-I 0 / 1785 0.44 (1) I-J -4003 / 0 -77.4 -77.4 0.30 (1) 3.27 O-I 0 / 399 0.10 (1) J-K -3516 / 0 -77.4 -77.4 0.27 (1) 3.51 O-J 0 / 550 0.14 (1) K-L 0 / 28 -77.4 -77.4 0.10 (1) 10.00 N-J -913 / 0 0.18 (1) V-B -2644 / 0 0.0 0.0 0.29 (1) 5.22 B-U 0 / 2596 0.64 (1) M-K -3104 / 0 0.0 0.0 0.35 (1) 4.83 N-K 0 / 3082 0.76 (1) V-U 0 / 0 -18.2 -18.2 0.08 (1) 10.00 U-T 0 / 2469 -18.2 -18.2 0.40 (1) 10.00 T-S 0 / 2818 -18.2 -18.2 0.45 (1) 10.00 S-Y 0 / 4592 -18.2 -18.2 0.72 (1) 10.00 Y-R 0 / 4592 -32.6 -32.6 0.72 (1) 10.00 R-Z 0 / 4566 -32.6 -32.6 0.98 (1) 10.00 Z-Q 0 / 4566 -18.2 -18.2 0.98 (1) 10.00 Q-P 0 / 4566 -18.2 -18.2 0.98 (1) 10.00 P-O 0 / 3325 -18.2 -18.2 0.54 (1) 10.00 O-N 0 / 2932 -32.6 -32.6 0.45 (1) 10.00 N-M 0 / 0 -32.6 -32.6 0.07 (1) 10.00 FACTORED CONCENTRATED LOADS (LBS) JT LOC. LC1 MAX- MAX+ FACE DIR. TYPE I 23-6-12 -297 -297 — FRONT VERT TOTAL O 23-7-4 -722 -722 — FRONT VERT TOTAL Q 15-10-12 -722 -722 — FRONT VERT TOTAL S 10-5-4 -820 -820 — FRONT VERT TOTAL				DESIGN CRITERIA *** SPECIAL LOADS ANALYSIS *** GEOMETRY AND/OR BASIC LOADS CHANGED BY USER. LOADS WERE DERIVED FROM USER INPUT NO FURTHER MODIFICATIONS WERE MADE SPECIFIED LOADS: TOP CH. LL = 23.3 PSF DL = 3.0 PSF BOT CH. LL = 0.0 PSF DL = 7.3 PSF TOTAL LOAD = 33.6 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 = 5-7-4 END SETBACK = 5-7-4 END WALL WIDTH = 5-8 CORNER FRAMING TYPE: CONVENTIONAL END JACK TYPE: CONVENTIONAL APPLIED TO FRONT SIDE - ADD'L LOADS BASED ON 55 % OF GSL. LOADS APPLIED TO FIRST 5-7-4 OF SPAN MEASURED FROM THE RIGHT. *** NON STANDARD GIRDER *** ADD'L USER-DEFINED LOADS APPLIED TO ALL LOAD CASES. THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBCC 2010 THIS DESIGN COMPLIES WITH: - PART 9 OF OBC 2012, BCBC 2012, ABC 2014 - CSA 086-09 - TPIC 2011 (55 % OF 27.2 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 23.3 P.S.F. SPECIFIED ROOF LIVE LOAD ALLOWABLE DEFL.(LL) = L/360 (0.97") CALCULATED VERT. DEFL.(LL) = L/ 999 (0.21") ALLOWABLE DEFL.(TL) = L/360 (0.97") CALCULATED VERT. DEFL.(TL) = L/ 929 (0.38") CSI: TC=0.77/1.00 (E-F:1), BC=0.98/1.00 (P-R:1), WB=0.76/1.00 (K-N:1), SSI=0.38/1.00 (P-R: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			
---	--	--	--	---	--	--	--	---	--	--	--



READ ALL NOTES ON THIS PAGE AND ON ENGINEERING NOTE PAGE ENP-1. THIS NOTE PAGE IS AN INTEGRAL PART OF THIS DRAWING AS IT CONTAINS SPECIFICATIONS AND CRITERIA USED IN THE DESIGN OF THIS COMPONENT.

HANGERS NOTES

1) SPECIAL HANGER(S) OR CONNECTION(S) REQUIRED TO SUPPORT CONCENTRATED LOAD(S) 296.6 lbs FACTORED DOWN AT 23-6-12 ON TOP CHORD, AND 819.8 lbs FACTORED DOWN AT 10-5-4, AND 721.6 lbs FACTORED DOWN AT 15-10-12, AND 721.6 lbs FACTORED DOWN AT 23-7-4 ON BOTTOM CHORD. DESIGN FOR UNSPECIFIED CONNECTION(S) IS DELEGATED TO THE BUILDING DESIGNER.

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

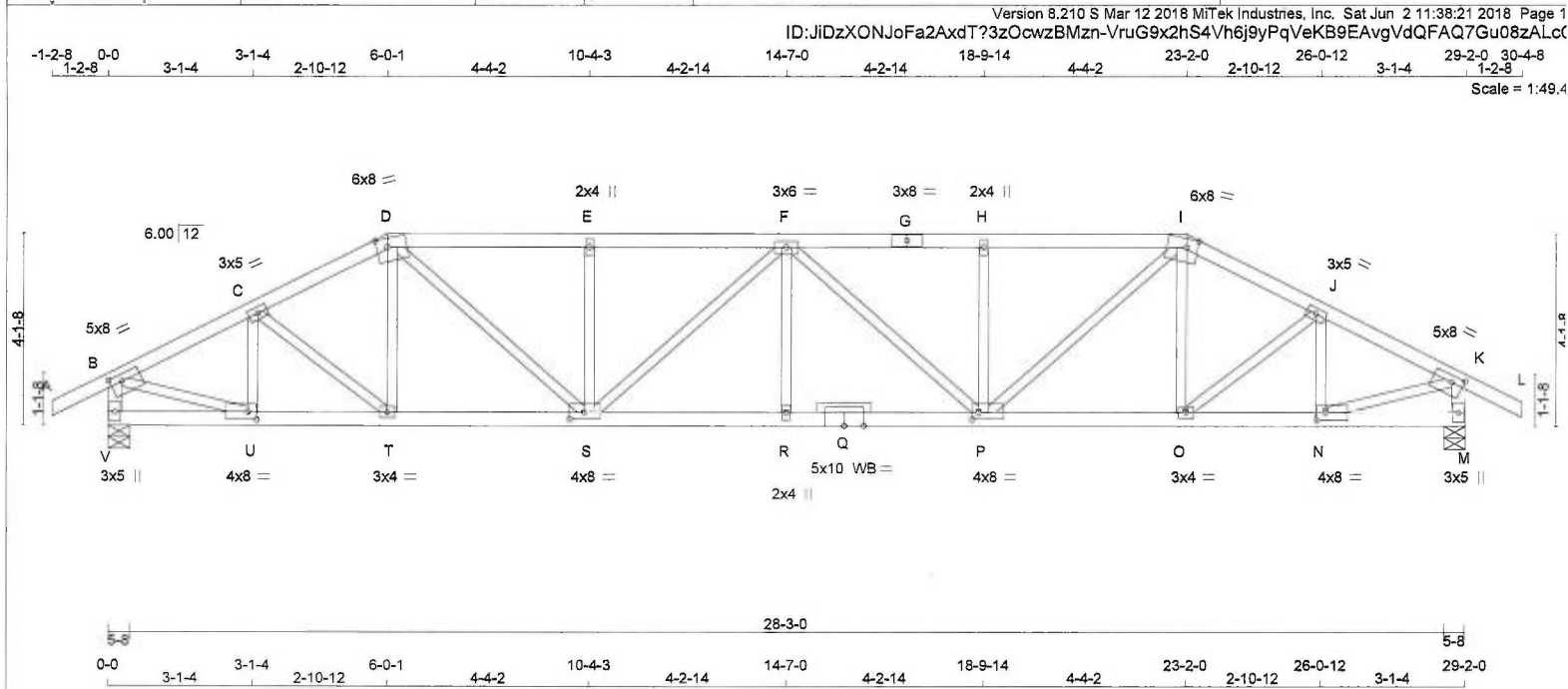
NAIL VALUES					
PLATE	GRIP(DRY)		SHEAR		SECTION
	(PSI)	(PLI)	(PSI)	(PLI)	(PLI)
	MAX	MIN	MAX	MIN	MAX
MT20	618	354	1667	822	2284

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

JSI GRIP= 0.89 (R) (INPUT = 0.90)
JSI METAL= 0.89 (Q) (INPUT = 1.00)

READ ALL NOTES ON THIS PAGE AND ON ENGINEERING NOTE PAGE ENP-1. THIS NOTE PAGE IS AN INTEGRAL PART OF THIS DRAWING AS IT CONTAINS SPECIFICATIONS AND CRITERIA USED IN THE DESIGN OF THIS COMPONENT.





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

ALL WEBS 2x3 DRY No.2
EXCEPT

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMWV-t	MT20	5.0	8.0	1.75	3.00
C	TMWV-t	MT20	3.0	5.0		
D	TTWVW-m	MT20	6.0	8.0	2.25	3.00
E	TMWV-t	MT20	2.0	4.0		
F	TMWVW-t	MT20	3.0	6.0		
G	TS-t	MT20	3.0	8.0		
H	TMWV-t	MT20	2.0	4.0		
I	TTWVW-m	MT20	6.0	8.0	2.25	3.00
J	TMWV-t	MT20	3.0	5.0		
K	TMWV-t	MT20	5.0	8.0	1.75	3.00
M	BMV1+p	MT20	3.0	5.0		
N	BMWV-t	MT20	4.0	8.0	2.00	2.25
O	BMWV-t	MT20	3.0	4.0		
P	BMWVW-t	MT20	4.0	8.0	1.75	1.75
Q	BS-t	MT20	5.0	10.0		
R	BMWV-t	MT20	2.0	4.0		
S	BMWVW-t	MT20	4.0	8.0	1.75	3.75
T	BMWV-t	MT20	3.0	4.0		
U	BMWV-t	MT20	4.0	8.0	2.00	2.25
V	BMV1+p	MT20	3.0	5.0		

WB - INDICATES BLOCKING REQUIRED



READ ALL NOTES ON THIS PAGE AND ON ENGINEERING NOTE PAGE ENP-1. THIS NOTE PAGE IS AN INTEGRAL PART OF THIS DRAWING AS IT CONTAINS SPECIFICATIONS AND CRITERIA USED IN THE DESIGN OF THIS COMPONENT.

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

BEARINGS

JT	FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	REQRD BRG
	VERT	HORZ	DOWN	HORZ
V	2666	0	2666	0
M	2666	0	2666	0

UNFACTORED REACTIONS

JT	1ST LCASE COMBINED	MAX/MIN SNOW	MAX/MIN LIVE	MAX/MIN PERM. LIVE	WIND	DEAD	SOIL
V	1872	1303 / 0	0 / 0	0 / 0	0 / 0	570 / 0	0 / 0
M	1872	1303 / 0	0 / 0	0 / 0	0 / 0	570 / 0	0 / 0

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

BRACING
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 2.36 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. UNBRACED LENGTH (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. UNBRACED LENGTH (LC)	
FR-TO		FROM TO		FR-TO			
A-B	0 / 22	-77.4 -77.4	0.10 (1)	U-C	-760 / 0	0.14 (1)	
B-C	-3508 / 0	-77.4 -77.4	0.28 (1)	C-T	0 / 483	0.12 (1)	
C-D	-3949 / 0	-77.4 -77.4	0.30 (1)	T-D	-135 / 83	0.04 (1)	
D-E	-4871 / 0	-146.0 -146.0	0.83 (1)	D-S	0 / 1803	0.45 (1)	
E-F	-4871 / 0	-146.0 -146.0	0.82 (1)	S-E	-693 / 0	0.19 (1)	
F-G	-4870 / 0	-146.0 -146.0	0.82 (1)	S-F	-551 / 0	0.31 (1)	
G-H	-4870 / 0	-146.0 -146.0	0.82 (1)	R-F	0 / 163	0.06 (4)	
H-I	-4870 / 0	-146.0 -146.0	0.83 (1)	F-P	-552 / 0	0.31 (1)	
I-J	-3948 / 0	-77.4 -77.4	0.30 (1)	P-H	-693 / 0	0.19 (1)	
J-K	-3505 / 0	-77.4 -77.4	0.28 (1)	P-I	0 / 1804	0.45 (1)	
K-L	0 / 22	-77.4 -77.4	0.10 (1)	O-I	-136 / 82	0.04 (1)	
V-B	-2602 / 0	0.0 0.0	0.29 (1)	O-J	0 / 484	0.12 (1)	
M-K	-2602 / 0	0.0 0.0	0.29 (1)	N-J	-762 / 0	0.14 (1)	
				B-U	0 / 3250	0.80 (1)	
				N-K	0 / 3248	0.80 (1)	
V-U	0 / 0	-34.4 -34.4	0.06 (4)				
U-T	0 / 3143	-34.4 -34.4	0.31 (1)				
T-S	0 / 3519	-34.4 -34.4	0.34 (1)				
S-R	0 / 5280	-34.4 -34.4	0.49 (1)				
R-Q	0 / 5280	-34.4 -34.4	0.49 (1)				
Q-P	0 / 5280	-34.4 -34.4	0.49 (1)				
P-O	0 / 3517	-34.4 -34.4	0.34 (1)				
O-N	0 / 3140	-34.4 -34.4	0.31 (1)				
N-M	0 / 0	-34.4 -34.4	0.06 (4)				

FACTORED CONCENTRATED LOADS (LBS)

JT	LOC.	LC1	MAX-	MAX+	FACE	DIR.	TYPE
D	6-0-1	-349	-349		FRONT	VERT	TOTAL
I	23-2-0	-349	-349		FRONT	VERT	TOTAL

DESIGN CRITERIA

SPECIFIED LOADS:
TOP CH. LL = 23.3 PSF
DL = 3.0 PSF
BOT CH. LL = 0.0 PSF
DL = 7.3 PSF
TOTAL LOAD = 33.6 PSF

SPACING = 24.0 IN. C/C

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

GIRDER TYPE: CPrimeHip
LEFT SETBACK = 6-0-1
RIGHT SETBACK = 6-0-0
END SETBACK = 6-0-1
END WALL WIDTH = 5-8
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 9 OF OBC 2012, BCBC 2012, ABC 2014
- CSA 086-09
- TPIC 2011

(55 % OF 27.2 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 23.3 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = L/360 (0.97")
CALCULATED VERT. DEFL.(LL) = L/999 (0.24")
ALLOWABLE DEFL.(TL) = L/360 (0.97")
CALCULATED VERT. DEFL.(TL) = L/815 (0.43")

CSI: TC=0.83/1.00 (D-E-1), BC=0.49/1.00 (R-S-1), WB=0.80/1.00 (B-U-1), SSI=0.32/1.00 (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

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

NAIL VALUES

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

CONTINUED ON PAGE 2



JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
NE0618-002	G02	1	1	GREEN YORK HOMES - GRANELLI HOME CORP - LIANA 2 ELEV 2	PAGE 6 OF 40

Version 8.210 S Mar 12 2018 MiTek Industries, Inc. Sat Jun 2 11:38:21 2018 Page 2
ID:JiDzXONJoFa2AxdT?3zOcwzBMzn-VruG9x2hS4Vh6j9yPqVeKB9EAvgVdQFAQ7Gu08zALc

HANGERS NOTES

- 1) SPECIAL HANGER(S) OR CONNECTION(S) REQUIRED TO SUPPORT CONCENTRATED LOAD(S) 348.5 lbs FACTORED DOWN AT 23-2-0, AND 348.8 lbs FACTORED DOWN AT 6-0-1 ON TOP CHORD. DESIGN FOR UNSPECIFIED CONNECTION(S) IS DELEGATED TO THE BUILDING DESIGNER.

PLATE PLACEMENT TOL. = 0.250 inches

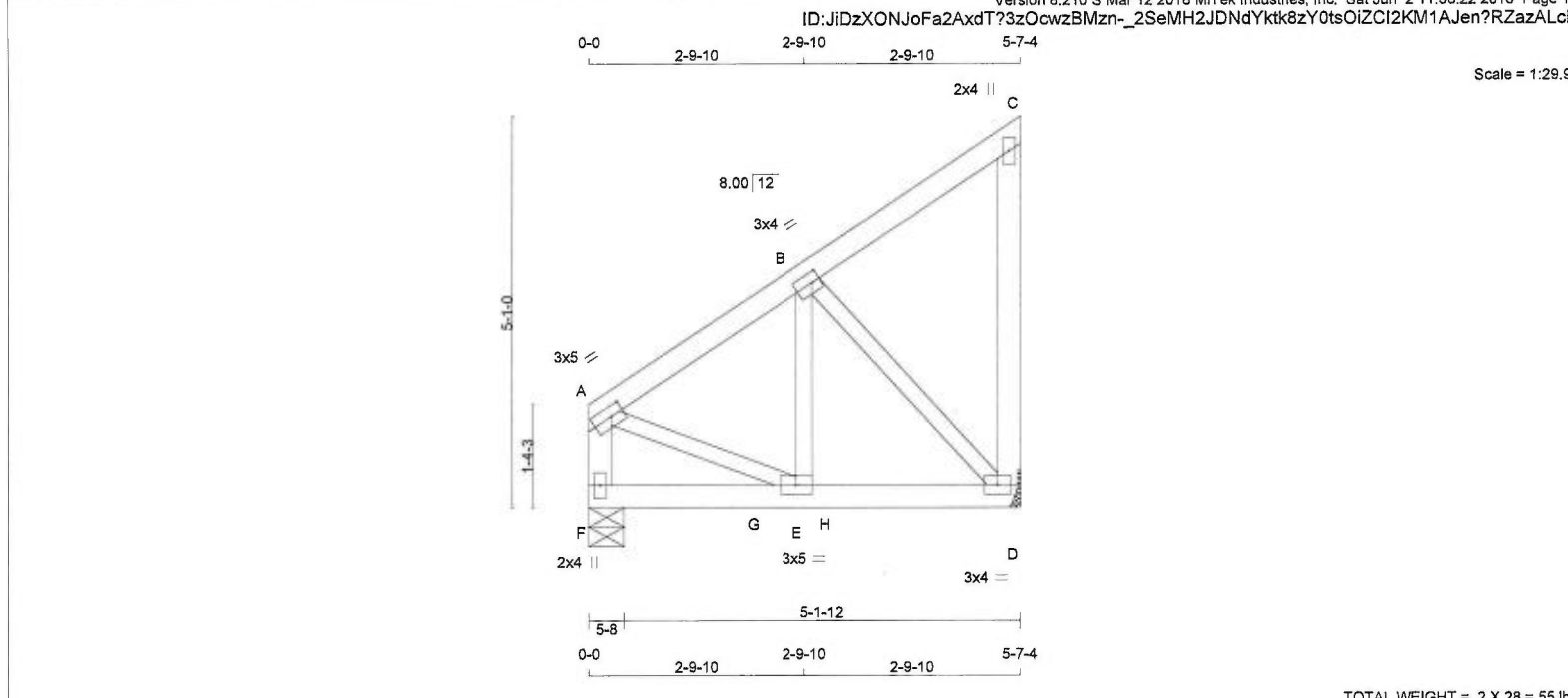
PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.89 (U) (INPUT = 0.90)

JSI METAL= 0.96 (Q) (INPUT = 1.00)

READ ALL NOTES ON THIS PAGE AND ON
ENGINEERING NOTE PAGE ENP-1. THIS
NOTE PAGE IS AN INTEGRAL PART OF
THIS DRAWING AS IT CONTAINS
SPECIFICATIONS AND CRITERIA USED IN
THE DESIGN OF THIS COMPONENT.





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

DRY: SEASONED LUMBER.

PLATES (table is in inches)
JT TYPE PLATES W LEN Y X
A TMVW-t MT20 3.0 5.0 1.50 2.00
B TMVW-t MT20 3.0 4.0 1.50 1.25
C TMV+p MT20 2.0 4.0
D BMVW1-t MT20 3.0 4.0
E BMVW-t MT20 3.0 5.0
F BMV1+p MT20 2.0 4.0

HANGERS NOTES
1) SPECIAL HANGER(S) OR CONNECTION(S) REQUIRED TO SUPPORT CONCENTRATED LOAD(S) 502.4 lbs FACTORED DOWN AT 2-2-12 ON BOTTOM CHORD. DESIGN FOR UNSPECIFIED CONNECTION(S) IS DELEGATED TO THE BUILDING DESIGNER.

READ ALL NOTES ON THIS PAGE AND ON ENGINEERING NOTE PAGE ENP-1. THIS NOTE PAGE IS AN INTEGRAL PART OF THIS DRAWING AS IT CONTAINS SPECIFICATIONS AND CRITERIA USED IN THE DESIGN OF THIS COMPONENT.

SUMMARY OF DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER
BEARINGS
FACTORED GROSS REACTION VERT HORZ
MAXIMUM FACTORED GROSS REACTION DOWN HORZ
INPUT BRG UPLIFT IN-SX
REQRD BRG IN-SX
JT D 722 0 722 0 0 0 MECHANICAL
F 641 0 641 0 0 0 5-8 5-8

A SUITABLE MECHANICAL CONNECTION IS REQUIRED AT JOINT D TO RESIST THE MAX FACTORED REACTIONS.

UNFACTORED REACTIONS
1ST LCASE MAX/MIN COMPONENT REACTIONS
JT COMBINED SNOW LIVE PERM.LIVE WIND DEAD SOIL
D 507 352 / 0 0 / 0 0 / 0 0 / 0 156 / 0 0 / 0
F 450 312 / 0 0 / 0 0 / 0 0 / 0 138 / 0 0 / 0

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

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

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

LOADING
TOTAL LOAD CASES: (4)
CHORDS WEBS
MEMB. MAX. FACTORED FORCE (LBS) FACTORED VERT. LOAD (PLF) FACTORED LC1 MAX (LC) MAX. UNBRAC LENGTH FR-TO
FR-TO FROM TO
A-B -552 / 0 -77.4 -77.4 0.10 (1) 6.25 E-B 0 / 535 0.13 (1)
B-C -13 / 0 -77.4 -77.4 0.10 (1) 6.25 B-D -676 / 0 0.19 (1)
D-C -85 / 0 0.0 0.0 0.04 (1) 7.81 A-E 0 / 501 0.12 (1)
F-A -571 / 0 0.0 0.0 0.06 (1) 7.81
F-G 0 / 0 -18.2 -18.2 0.24 (1) 10.00
G-E 0 / 0 -18.2 -18.2 0.24 (1) 10.00
E-H 0 / 470 -18.2 -18.2 0.33 (1) 10.00
H-D 0 / 470 -151.7 -151.7 0.33 (1) 10.00

FACTORED CONCENTRATED LOADS (LBS)
JT LOC. LC1 MAX- MAX+ FACE DIR. TYPE
G 2-2-12 -502 -502 - FRONT VERT TOTAL

DESIGN CRITERIA
*** SPECIAL LOADS ANALYSIS ***
GEOMETRY AND/OR BASIC LOADS CHANGED BY USER.
LOADS WERE DERIVED FROM USER INPUT
NO FURTHER MODIFICATIONS WERE MADE

SPECIFIED LOADS:
TOP CH. LL = 23.3 PSF
DL = 3.0 PSF
BOT CH. LL = 0.0 PSF
DL = 7.3 PSF
TOTAL LOAD = 33.6 PSF

SPACING = 24.0 IN. C/C
GIRDER TYPE: CStdGirder
START DISTANCE = 3-2-0
START SPAN CARRIED = 7-7-0
END DISTANCE = 5-7-4
END SPAN CARRIED = 7-7-0
END WALL WIDTH = 0-0
APPLIED TO FRONT SIDE OF BOTTOM CHORD.
- ADD'L LOADS BASED ON 55 % OF GSL. (DEFINED BY USER)

*** NON STANDARD GIRDER ***
ADDT'L 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

(55 % OF 27.2 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 23.3 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL)= L/360 (0.19")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.01")
ALLOWABLE DEFL.(TL)= L/360 (0.19")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.02")

CSI: TC=0.10/1.00 (A-B:1), BC=0.33/1.00 (D-E:1), VWB=0.19/1.00 (B-D:1), SSI=0.41/1.00 (E-F:1)

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

COMPANION LIVE LOAD FACTOR = 0.50

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

CONTINUED ON PAGE 2



READ ALL NOTES ON THIS PAGE AND ON ENGINEERING NOTE PAGE ENP-1. THIS NOTE PAGE IS AN INTEGRAL PART OF THIS DRAWING AS IT CONTAINS SPECIFICATIONS AND CRITERIA USED IN THE DESIGN OF THIS COMPONENT.



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

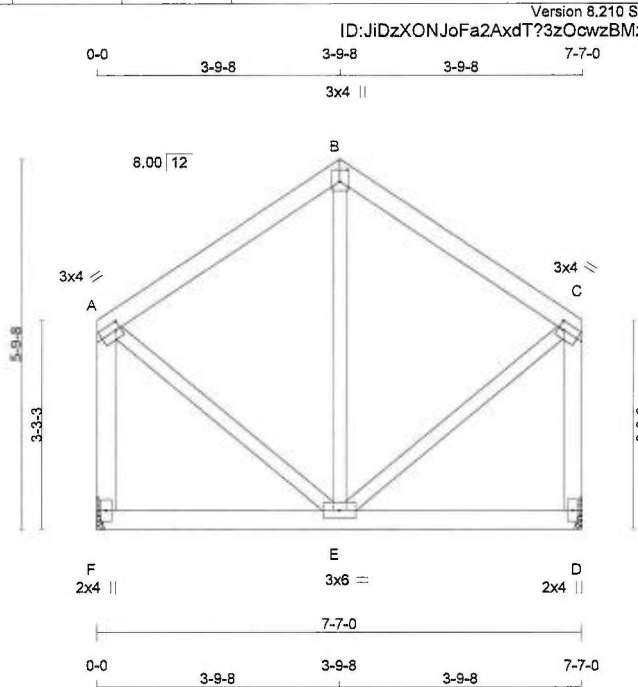
 PLATE PLACEMENT TOL. = 0.250 inches

 PLATE ROTATION TOL. = 5.0 Deg.

 JSI GRIP= 0.86 (B) (INPUT = 0.90)
 JSI METAL= 0.18 (A) (INPUT = 1.00)

READ ALL NOTES ON THIS PAGE AND ON
 ENGINEERING NOTE PAGE ENP-1. THIS
 NOTE PAGE IS AN INTEGRAL PART OF
 THIS DRAWING AS IT CONTAINS
 SPECIFICATIONS AND CRITERIA USED IN
 THE DESIGN OF THIS COMPONENT.





Scale = 1:36.0

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

DRY: SEASONED LUMBER.

PLATES (table is in inches)						
JT	TYPE	PLATES	W	LEN	Y	X
A	TMVV-t	MT20	3.0	4.0	1.50	1.00
B	TTVV+p	MT20	3.0	4.0	2.25	1.50
C	TMVV-t	MT20	3.0	4.0	1.50	1.00
D	BMV1+p	MT20	2.0	4.0		
E	BMVWW-t	MT20	3.0	6.0		
F	BMV1+p	MT20	2.0	4.0		

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

BEARINGS		FACTORED	MAXIMUM FACTORED	INPUT	REQRD
JT	GROSS REACTION	DOWN	HORZ	BRG	BRG
F	502	0	502	0	0
D	502	0	502	0	0

A SUITABLE MECHANICAL CONNECTION IS REQUIRED AT JOINT F, D TO RESIST THE MAX FACTORED REACTIONS.

UNFACTORED REACTIONS

JT	1ST LCASE	MAX./MIN. COMPONENT REACTIONS	PERM. LIVE	WIND	DEAD	SOIL
F	353	245 / 0	0 / 0	0 / 0	108 / 0	0 / 0
D	353	245 / 0	0 / 0	0 / 0	108 / 0	0 / 0

BRACING

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

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. UNBRACED LENGTH FR-TO	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. UNBRACED LENGTH FR-TO	
A-B	-230 / 0	-77.4	-77.4 0.21 (1)	E-B	-38 / 51	0.02 (1)	
B-C	-230 / 0	-77.4	-77.4 0.21 (1)	A-E	0 / 242	0.06 (1)	
F-A	-423 / 0	0.0	0.0 0.08 (1)	E-C	0 / 242	0.06 (1)	
D-C	-423 / 0	0.0	0.0 0.08 (1)				
F-E	0 / 0	-55.1	-55.1 0.14 (1)				
E-D	0 / 0	-55.1	-55.1 0.14 (1)				

DESIGN CRITERIA

SPECIFIED LOADS:			
TOP CH.	LL	=	23.3 PSF
	DL	=	3.0 PSF
BOT CH.	LL	=	0.0 PSF
	DL	=	7.3 PSF
TOTAL LOAD		=	33.6 PSF

SPACING = 24.0 IN. C/C

GIRDER TYPE: CStdGirder
START DISTANCE = 0-0
START SPAN CARRIED = 4-0-0
END DISTANCE = 7-7-0
END SPAN CARRIED = 4-0-0
END WALL WIDTH = 5-8
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 27.2 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 23.3 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL)= L/360 (0.25")
CALCULATED VERT. DEFL.(LL) = L/999 (0.01")
ALLOWABLE DEFL.(TL)= L/360 (0.25")
CALCULATED VERT. DEFL.(TL) = L/999 (0.02")

CSI: TC=0.21/1.00 (B-C:1) , BC=0.14/1.00 (D-E:1) , WB=0.06/1.00 (A-E:1) , SSI=0.11/1.00 (D-E:1)

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

COMPANION LIVE LOAD FACTOR = 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)
MT20	618	354	1667
	822	2284	1656

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

CONTINUED ON PAGE 2



READ ALL NOTES ON THIS PAGE AND ON ENGINEERING NOTE PAGE ENP-1. THIS NOTE PAGE IS AN INTEGRAL PART OF THIS DRAWING AS IT CONTAINS SPECIFICATIONS AND CRITERIA USED IN THE DESIGN OF THIS COMPONENT.



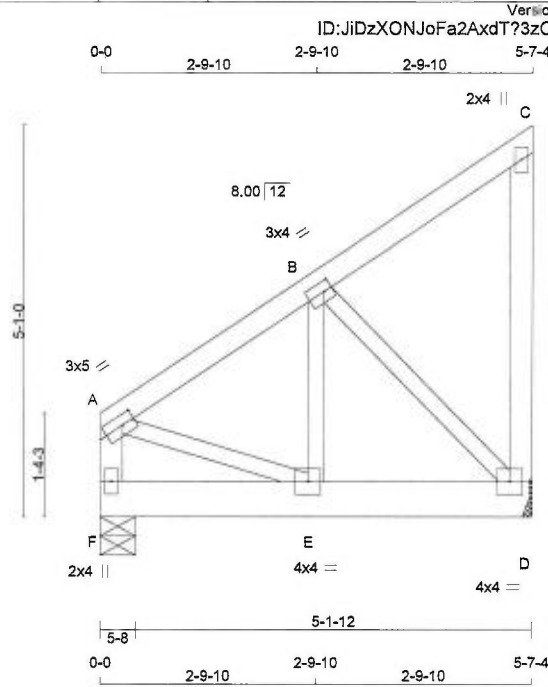
JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	GREEN YORK HOMES - GRANELLI HOME CORP - LIANA 2 ELEV 2	DRWG NO.
NE0618-002	G04	1	1	TRUSS DESC.		PAGE 10 OF 40

Version 8.210 S Mar 12 2018 MiTek Industries, Inc. Sat Jun 2 11:38:22 2018 Page 2
ID:JiDzXONJoFa2AxdT?3zOcwzBMzn-_2SeMH2JDNdYktk8zY0tsOIXYI5DM38Jen?RZazALcl

JSI GRIP= 0.78 (A) (INPUT = 0.90)
JSI METAL= 0.12 (A) (INPUT = 1.00)

READ ALL NOTES ON THIS PAGE AND ON
ENGINEERING NOTE PAGE ENP-1. THIS
NOTE PAGE IS AN INTEGRAL PART OF
THIS DRAWING AS IT CONTAINS
SPECIFICATIONS AND CRITERIA USED IN
THE DESIGN OF THIS COMPONENT.





Scale = 1:29.5

TOTAL WEIGHT = 31 lb [M]

LUMBER
N. L. G. A. RULES

CHORDS	SIZE	DRY	LUMBER	DESCR.
A - C	2x4	DRY	No.2	SPF
D - C	2x4	DRY	No.2	SPF
F - A	2x4	DRY	No.2	SPF
F - D	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	3.0	5.0	1.50	2.00
B	TMVW-t	MT20	3.0	4.0	1.50	1.25
C	TMV+p	MT20	2.0	4.0		
D	BMVW1-t	MT20	4.0	4.0		
E	BMVW-t	MT20	4.0	4.0		
F	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	REQRD BRG IN-SX
	VERT	HORZ	DOWN	HORZ		
D	820	0	820	0	MECHANICAL	
F	820	0	820	0	5-8	5-8

A SUITABLE MECHANICAL CONNECTION IS REQUIRED AT JOINT D TO RESIST THE MAX FACTORED REACTIONS.

UNFACTORED REACTIONS

JT	1ST LCASE COMBINED	MAX./MIN. COMPONENT REACTIONS				
		SNOW	LIVE	PERM. LIVE	WIND	DEAD
D	576	400 / 0	0 / 0	0 / 0	0 / 0	177 / 0
F	576	400 / 0	0 / 0	0 / 0	0 / 0	177 / 0

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

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

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

LOADING
TOTAL LOAD CASES: (4)

MEMB.	CHORDS				WEBS			
	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX LC1 (LC)	MAX UNBRACED LENGTH	MEMB.	MAX. FACTORED FORCE (LBS)	MAX LC1 (LC)	
FR-TO		FROM TO			FR-TO			
A-B	-564 / 0	-77.4 -77.4	0.10 (1)	6.25	E-B	0 / 537	0.13 (1)	
B-C	-13 / 0	-77.4 -77.4	0.10 (1)	6.25	B-D	-680 / 0	0.18 (1)	
D-C	-85 / 0	0.0 0.0	0.03 (1)	7.81	A-E	0 / 506	0.13 (1)	
F-A	-566 / 0	0.0 0.0	0.06 (1)	7.81				
F-E	0 / 0	-215.4 -215.4	0.11 (1)	10.00				
E-D	0 / 480	-215.4 -215.4	0.17 (1)	10.00				

DESIGN CRITERIA

SPECIFIED LOADS:
TOP CH. LL = 23.3 PSF
DL = 3.0 PSF
BOT CH. LL = 0.0 PSF
DL = 7.3 PSF
TOTAL LOAD = 33.6 PSF

SPACING = 24.0 IN. C/C

GIRDER TYPE: CStdGirder
START DISTANCE = 0-0
START SPAN CARRIED = 10-4-8
END DISTANCE = 5-7-4
END SPAN CARRIED = 10-4-8
END WALL WIDTH = 1-8
APPLIED TO BACK SIDE OF BOTTOM CHORD.
- ADD'L LOADS BASED ON 55 % OF GSL.
(DEFINED BY USER)

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 27.2 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 23.3 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = L/360 (0.19")
CALCULATED VERT. DEFL.(LL) = L/999 (0.01")
ALLOWABLE DEFL.(TL) = L/360 (0.19")
CALCULATED VERT. DEFL.(TL) = L/999 (0.01")

CSI: TC=0.10/1.00 (A-B:1), BC=0.17/1.00 (D-E:1), WB=0.18/1.00 (B-D:1), SSI=0.23/1.00 (E-F:1)

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

COMPANION LIVE LOAD FACTOR = 0.50

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

NAIL VALUES

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

CONTINUED ON PAGE 2



READ ALL NOTES ON THIS PAGE AND ON ENGINEERING NOTE PAGE ENP-1. THIS NOTE PAGE IS AN INTEGRAL PART OF THIS DRAWING AS IT CONTAINS SPECIFICATIONS AND CRITERIA USED IN THE DESIGN OF THIS COMPONENT.

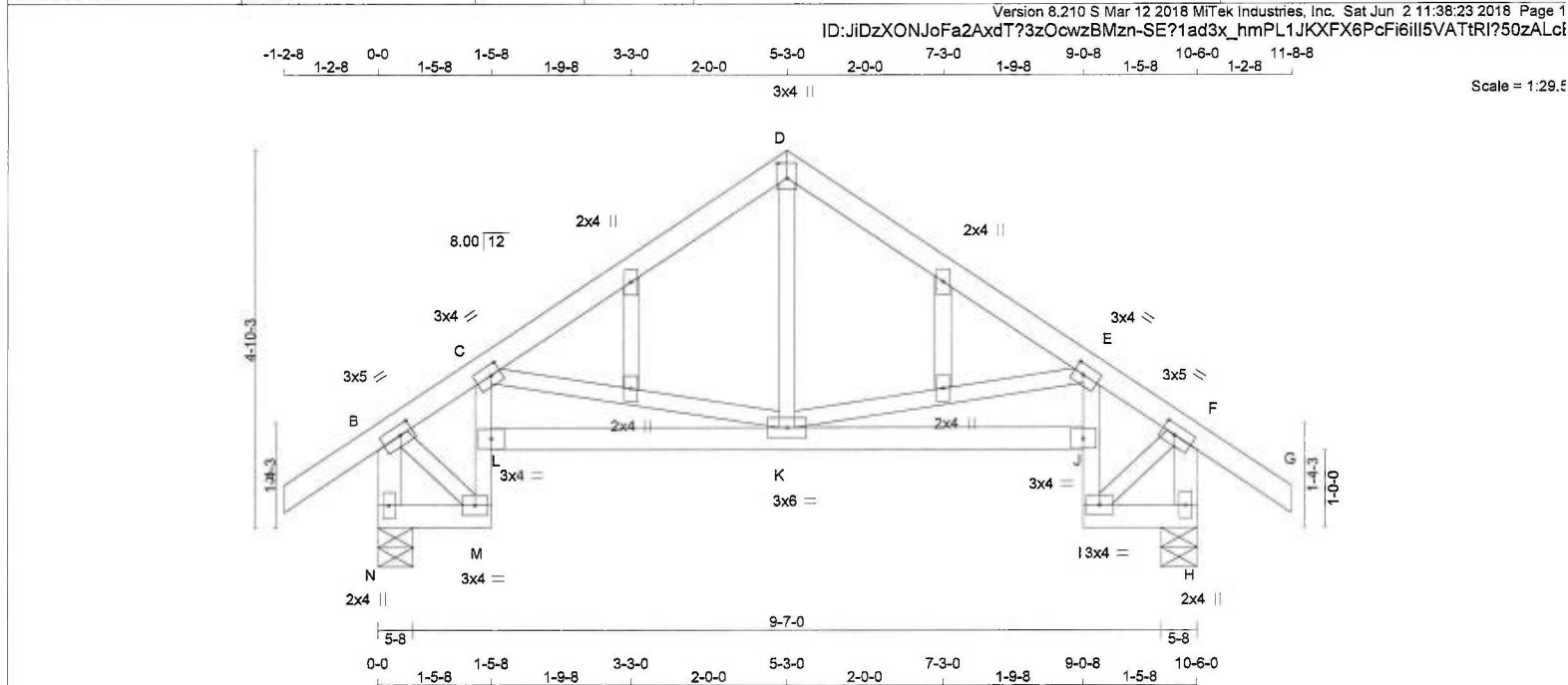
JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	GREEN YORK HOMES - GRANELLI HOME CORP - LIANA 2 ELEV 2	DRWG NO.
NE0618-002	G05	1	1	TRUSS DESC.		PAGE 12 OF 40

Version 8.210 S Mar 12 2018 MiTek Industries, Inc. Sat Jul 2 11:38:23 2018 Page 2
ID:JlDzXONJoFa2AxdT?3zOcwzBMzn-SE?1ad3x hmPL1JKXFX6PcFkyiQy5UXTtRI?50zALct

JSI GRIP= 0.85 (B) (INPUT = 0.90)
JSI METAL= 0.19 (A) (INPUT = 1.00)

READ ALL NOTES ON THIS PAGE AND ON
ENGINEERING NOTE PAGE ENP-1. THIS
NOTE PAGE IS AN INTEGRAL PART OF
THIS DRAWING AS IT CONTAINS
SPECIFICATIONS AND CRITERIA USED IN
THE DESIGN OF THIS COMPONENT.





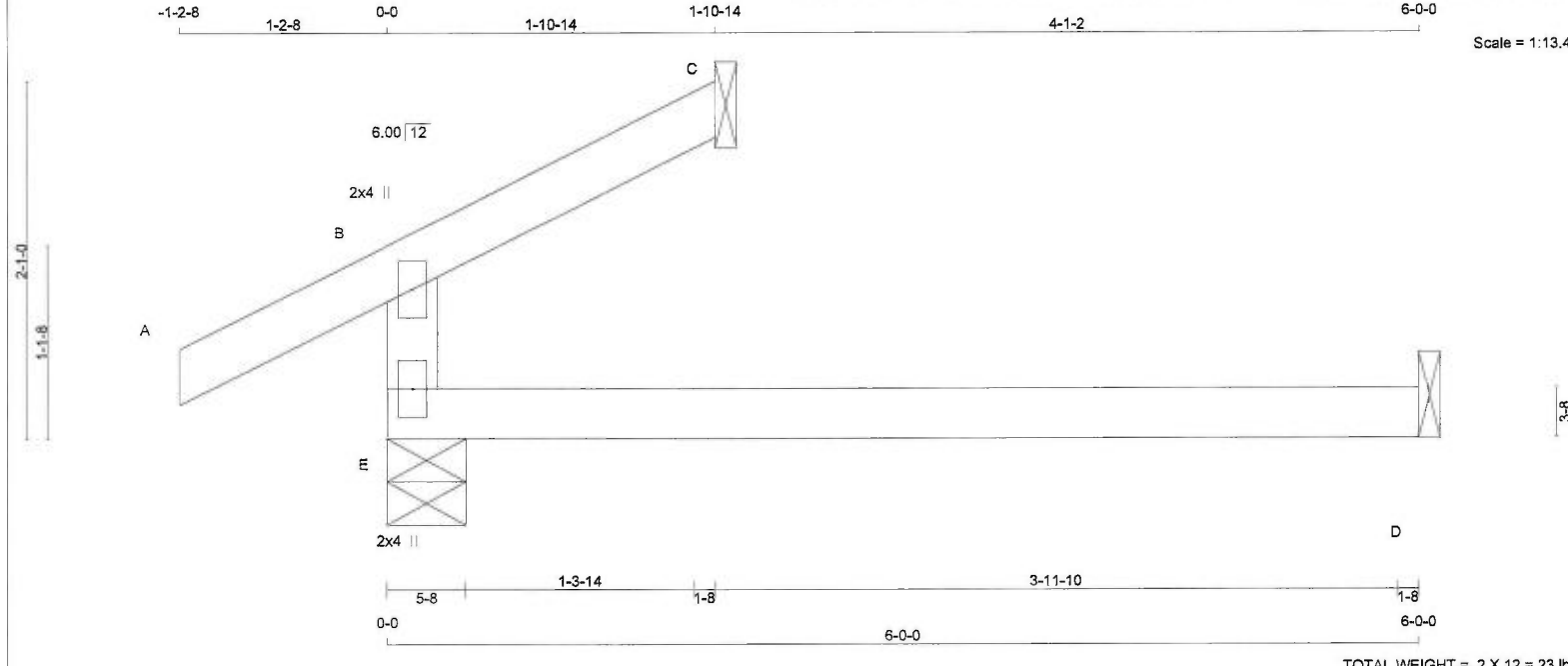
										TOTAL WEIGHT = 48 lb																			
LUMBER										DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER										DESIGN CRITERIA									
N. L. G. A. RULES																				[M]									
CHORDS SIZE										BEARINGS										SPECIFIED LOADS:									
A - D 2x4 DRY No.2										FACTORED MAXIMUM FACTORED INPUT REQRD										TOP CH. LL = 23.3 PSF									
D - G 2x4 DRY No.2										GROSS REACTION GROSS REACTION BRG BRG										DL = 3.0 PSF									
N - B 2x4 DRY No.2										JT VERT HORZ DOWN HORZ UPLIFT IN-SX IN-SX										BOT CH. LL = 0.0 PSF									
H - F 2x4 DRY No.2										N 602 0 602 0 0 5-8 5-8										DL = 7.3 PSF									
N - M 2x4 DRY No.2										H 602 0 602 0 0 5-8 5-8										TOTAL LOAD = 33.6 PSF									
M - C 2x3 DRY No.2																				SPACING = 24.0 IN. C/C									
L - J 2x4 DRY No.2										UNFACTORED REACTIONS										THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBCC 2010									
I - E 2x3 DRY No.2										1ST LCASE MAX./MIN. COMPONENT REACTIONS										THIS DESIGN COMPLIES WITH:									
I - H 2x4 DRY No.2										JT COMBINED SNOW LIVE PERM. LIVE WIND DEAD SOIL										- PART 9 OF OBC 2012 , BCBC 2012 , ABC 2014									
ALL WEBS 2x3 DRY No.2										N 420 305 / 0 0 / 0 0 / 0 0 / 0 116 / 0 0 / 0										- CSA 086-09									
EXCEPT										H 420 305 / 0 0 / 0 0 / 0 0 / 0 116 / 0 0 / 0										- TPIC 2011									
ALL GABLE WEBS 2x3 DRY No.2										BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) N, H										DESIGN ASSUMPTIONS									
DRY: SEASONED LUMBER.										BRACING										-OVERHANG NOT TO BE ALTERED OR CUT OFF.									
GABLE STUDS SPACED AT 2-0-0 OC.										TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 6.25 FT.																			
										MAX. UNBRACED BOTTOM CHORD LENGTH = 7.81 FT OR RIGID CEILING DIRECTLY APPLIED.																			
										ALL PITCH BREAKS AND PERIMETER CORNER JOINTS MUST BE Laterally RESTRAINED.																			

PLATES (table is in inches)					
JT	TYPE	PLATES	W	LEN	Y X
B	TMVW-t	MT20	3.0	5.0	1.50 2.00
C	TMVW-t	MT20	3.0	4.0	1.50 1.50
D	TTW+p	MT20	3.0	4.0	2.25 1.50
E	TMVW-t	MT20	3.0	4.0	1.50 1.50
F	TMVW-t	MT20	3.0	5.0	1.50 2.00
H	BMV1+p	MT20	2.0	4.0	
I	BMVW-t	MT20	3.0	4.0	
J	BVMH	MT20	3.0	4.0	
K	BMVW-t	MT20	3.0	6.0	
L	BVMH	MT20	3.0	4.0	
M	BMVW-t	MT20	3.0	4.0	
N	BMV1+p	MT20	2.0	4.0	
O, P, Q, R					
O	NP+w	MT20	2.0	4.0	



READ ALL NOTES ON THIS PAGE AND ON ENGINEERING NOTE PAGE ENP-1. THIS NOTE PAGE IS AN INTEGRAL PART OF THIS DRAWING AS IT CONTAINS SPECIFICATIONS AND CRITERIA USED IN THE DESIGN OF THIS COMPONENT.





LUMBER

N. L. G. A. RULES

CHORDS

SIZE

DRY

LUMBER

No.2

DESCR.

SPF

SPF

SPF

E - B

2x4

DRY

No.2

A - C

2x4

DRY

No.2

E - D

2x4

DRY

No.2

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT

TYPE

PLATES

W

LEN

Y

X

B

TMV+p

MT20

2.0

4.0

E

BMV1+p

MT20

2.0

4.0

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

BEARINGS

FACTORED

MAXIMUM FACTORED

INPUT

REQRD

JT

GROSS REACTION

GROSS REACTION

DOWN

HORZ

UPLIFT

BRG

BRG

E

255

0

255

0

0

5-8

5-8

C

56

0

56

0

0

1-8

1-8

D

45

0

50

0

0

1-8

1-8

SEE MITEK STANDARD DETAIL B37579H FOR CONNECTION TO JOINT(S) C, D

UNFACTORED REACTIONS

1ST LCASE

MAX/MIN COMPONENT REACTIONS

JT

COMBINED

SNOW

LIVE

PERM.LIVE

WIND

DEAD

SOIL

E

181

115 / 0

0 / 0

0 / 0

0 / 0

66 / 0

0 / 0

C

38

34 / 0

0 / 0

0 / 0

0 / 0

4 / 0

0 / 0

D

36

0 / 0

0 / 0

0 / 0

0 / 0

36 / 0

0 / 0

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 10.00 FT.

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

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS

MAX. FACTORED

FACTORED

VERT. LOAD

LC1

MAX

MEMB.

FORCE

VERT.

LOAD

LC1

MAX

MEMB.

FORCE

MAX

FR-TO

-190 / 0

0.0

0.0

0.11 (4)

7.81

FR-TO

0 / 22

-77.4

-77.4

0.09 (1)

10.00

B-C

-8 / 0

-77.4

-77.4

0.04 (1)

10.00

E-D

0 / 0

-18.2

-18.2

0.14 (4)

10.00

LICENSED PROFESSIONAL ENGINEER

N.A. EL-MASRI

Jun 02, 2018

READ ALL NOTES ON THIS PAGE AND ON ENGINEERING NOTE PAGE ENP-1. THIS NOTE PAGE IS AN INTEGRAL PART OF THIS DRAWING AS IT CONTAINS SPECIFICATIONS AND CRITERIA USED IN THE DESIGN OF THIS COMPONENT.

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH. LL = 23.3 PSF

DL = 3.0 PSF

BOT CH. LL = 0.0 PSF

DL = 7.3 PSF

TOTAL LOAD = 33.6 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 088-09

- TPIC 2011

DESIGN ASSUMPTIONS

-OVERHANG NOT TO BE ALTERED OR CUT OFF.

(55% OF 27.2 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 23.3 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 (0.03")

CSI: TC=0.11/1.00 (B-E:4), BC=0.14/1.00 (D-E:4), WB=0.00/1.00 (n/a:0), SSI=0.09/1.00 (D-E: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

AUTOSOLVE RIGHT HEEL ONLY

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

NAIL VALUES

PLATE GRIP(DRY) SHEAR SECTION

(PSI) (PLI) (PLI)

MAX MIN MAX MIN MAX MIN

MT20 618 354 1667 822 2284 1656

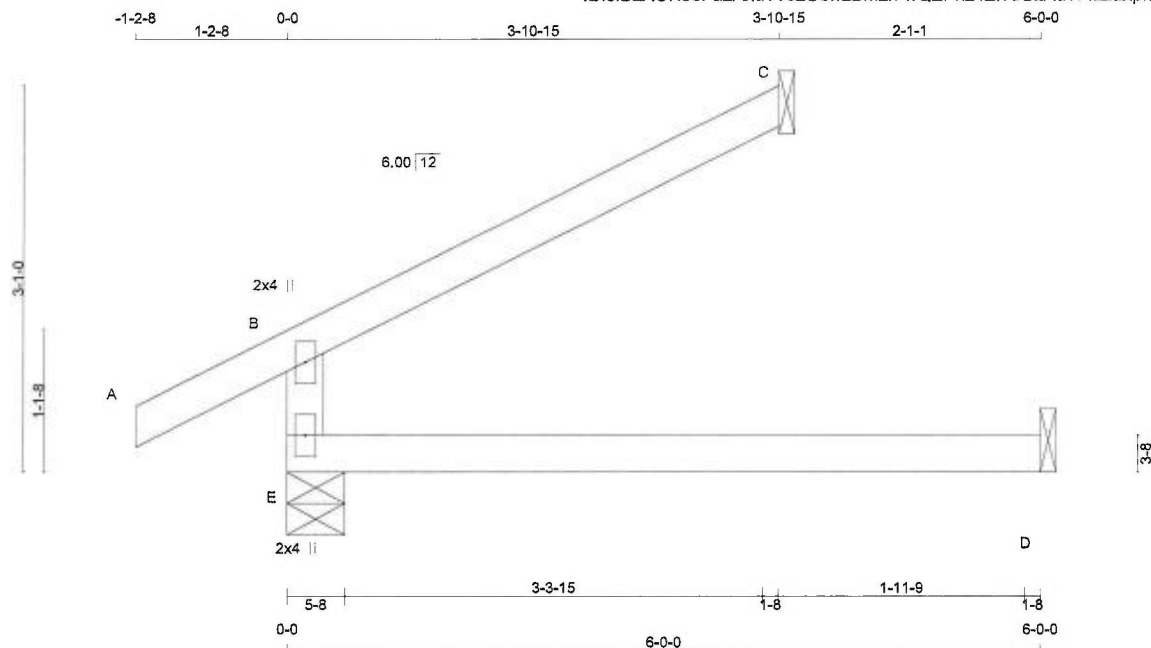
PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.11 (B) (INPUT = 0.90)

JSI METAL= 0.04 (B) (INPUT = 1.00)

KOTT



TOTAL WEIGHT = 2 X 14 = 28 lb
(MITF)

LUMBER

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

DRY: SEASONED LUMBER.

DESCR.
SPF
SPF
SPF

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		
E	352	0	352	0	5-8	5-8
C	114	0	114	0	1-8	1-8
D	45	0	50	0	1-8	1-8

SEE MITEK STANDARD DETAIL B37579H FOR CONNECTION TO JOINT(S) C, D

UNFACTORED REACTIONS

JT	1ST LCASE		MAX./MIN. COMPONENT REACTIONS				
	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
E	247	173 / 0	0 / 0	0 / 0	0 / 0	74 / 0	0 / 0
C	77	68 / 0	0 / 0	0 / 0	0 / 0	9 / 0	0 / 0
D	36	0 / 0	0 / 0	0 / 0	0 / 0	36 / 0	0 / 0

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

BRACING

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

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

LOADING

TOTAL LOAD CASES: (4)

MEMB.	CHORDS		FACTORED		MAX. UNBRAC LENGTH FR-TO	MEMB. FORCE MAX (LBS)	MAX. FACTORED FORCE MAX (LBS)
	MAX. FACTORED FORCE (LBS)	VERT. LOAD (PLF)	VERT. LOAD (PLF)	CS1 (LC)			
FR-TO							
E-B	-288 / 0	0.0	0.0	0.11 (4)	7.81		
A-B	0 / 22	-77.4	-77.4	0.09 (1)	10.00		
B-C	-17 / 0	-77.4	-77.4	0.15 (1)	6.25		
E-D	0 / 0	-18.2	-18.2	0.14 (4)	10.00		

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH.	LL = 23.3 PSF
DL = 3.0 PSF	
BOT CH.	LL = 0.0 PSF
DL = 7.3 PSF	
TOTAL LOAD	= 33.6 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 088-09
- TPIC 2011

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

(55 % OF 27.2 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 23.3 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 (0.03")

CS1: TC=0.15/1.00 (B-C:1), BC=0.14/1.00 (D-E:4), WB=0.00/1.00 (n/a:0), SSI=0.13/1.00 (B-C:1)

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

COMPANION LIVE LOAD FACTOR = 0.50

AUTOSOLVE RIGHT HEEL ONLY

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

NAIL VALUES

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

PLATE PLACEMENT TOL. = 0.250 inches

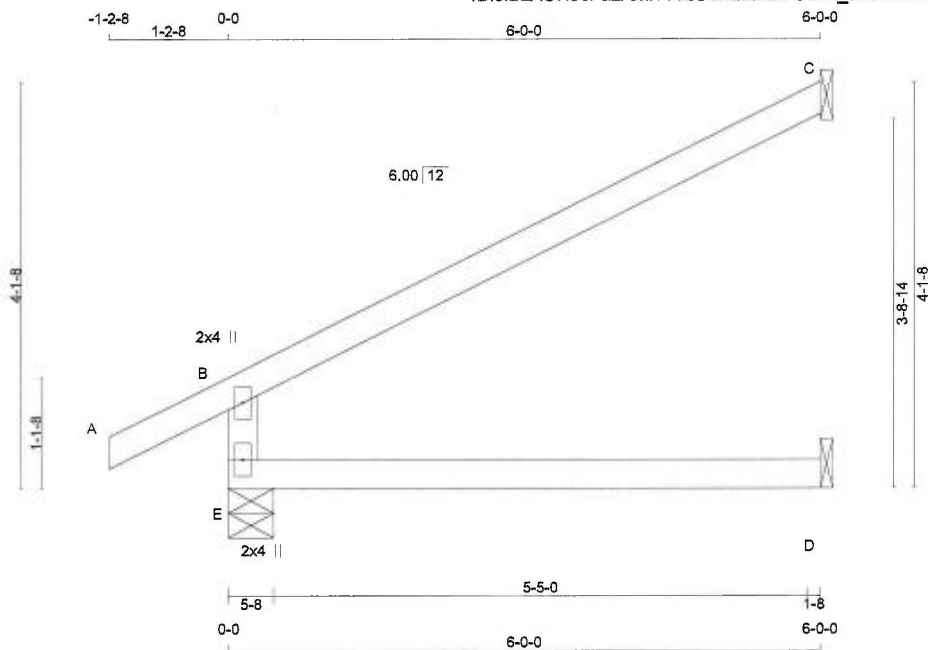
PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.17 (B) (INPUT = 0.90)
JSI METAL= 0.06 (B) (INPUT = 1.00)



READ ALL NOTES ON THIS PAGE AND ON ENGINEERING NOTE PAGE ENP-1. THIS NOTE PAGE IS AN INTEGRAL PART OF THIS DRAWING AS IT CONTAINS SPECIFICATIONS AND CRITERIA USED IN THE DESIGN OF THIS COMPONENT.





Scale = 1:23.4

TOTAL WEIGHT = 10 X 17 = 169 lb
(M) [F]

LUMBER

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

DRY: SEASONED LUMBER.

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

JT	FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG	REQRD BRG
	VERT	HORZ	DOWN	HORZ		
E	453	0	453	0	5-8	5-8
C	174	0	174	0	1-8	1-8
D	45	0	50	0	1-8	1-8

SEE MITTEK STANDARD DETAIL B37579H FOR CONNECTION TO JOINT(S) C, D

UNFACTORED REACTIONS

JT	1ST LCASE	MAX./MIN. COMPONENT REACTIONS					
	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
E	316	234 / 0	0 / 0	0 / 0	0 / 0	82 / 0	0 / 0
C	118	105 / 0	0 / 0	0 / 0	0 / 0	14 / 0	0 / 0
D	36	0 / 0	0 / 0	0 / 0	0 / 0	36 / 0	0 / 0

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

BRACING

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

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	LC1 MAX CSI (LC)	MAX. UNBRACED LENGTH	MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED MAX CSI (LC)
FR-TO		FROM TO			FR-TO		
E-B	-389 / 0	0.0	0.0 0.11 (4)	7.81			
A-B	0 / 22	-77.4	-77.4 0.09 (1)	10.00			
B-C	-26 / 0	-77.4	-77.4 0.36 (1)	6.25			
E-D	0 / 0	-18.2	-18.2 0.14 (4)	10.00			

DESIGN CRITERIA

SPECIFIED LOADS:
TOP CH. LL = 23.3 PSF
DL = 3.0 PSF
BOT CH. LL = 0.0 PSF
DL = 7.3 PSF
TOTAL LOAD = 33.6 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 27.2 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 23.3 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 (0.03")

CSI: TC=0.36/1.00 (B-C:1), BC=0.14/1.00 (D-E:4), WB=0.00/1.00 (n/a:0), SSI=0.20/1.00 (B-C:1)

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

COMPANION LIVE LOAD FACTOR = 0.50

AUTOSOLVE RIGHT HEEL ONLY

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

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

PLATE PLACEMENT TOL. = 0.250 inches

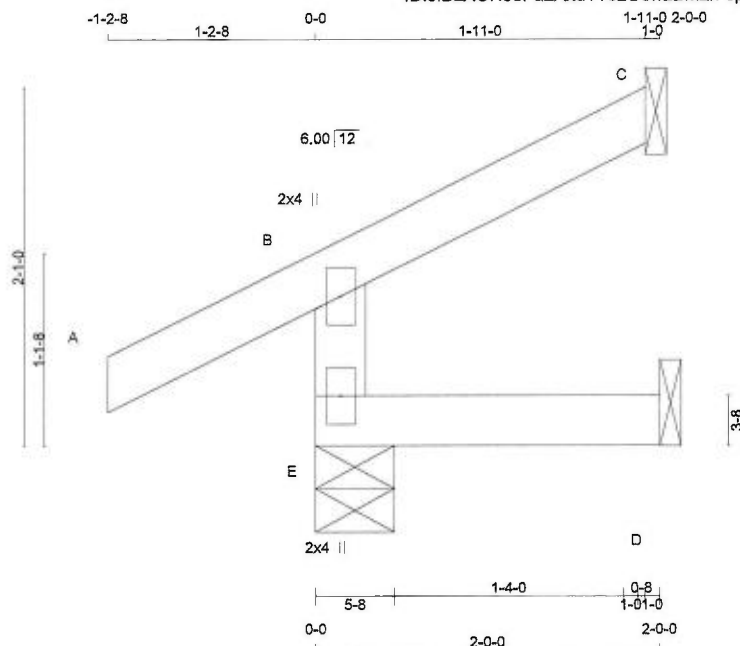
PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.22 (B) (INPUT = 0.90)
JSI METAL= 0.09 (B) (INPUT = 1.00)



READ ALL NOTES ON THIS PAGE AND ON ENGINEERING NOTE PAGE ENP-1. THIS NOTE PAGE IS AN INTEGRAL PART OF THIS DRAWING AS IT CONTAINS SPECIFICATIONS AND CRITERIA USED IN THE DESIGN OF THIS COMPONENT.





TOTAL WEIGHT = 2 X 7 = 14 lb [M]

LUMBER

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

DRY: SEASONED LUMBER.

DESCR.
SPF
SPF
SPF

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		
E	211	0	211	0	5-8	5-8
C	56	0	56	0	1-8	1-8
D	16	0	16	0	1-8	1-8

SEE MITEK STANDARD DETAIL B37579H FOR CONNECTION TO JOINT(S) C, D

UNFACTORED REACTIONS

JT	1ST LCASE	MAX./MIN. COMPONENT REACTIONS					
	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
E	146	115 / 0	0 / 0	0 / 0	0 / 0	31 / 0	0 / 0
C	38	34 / 0	0 / 0	0 / 0	0 / 0	4 / 0	0 / 0
D	13	0 / 0	0 / 0	0 / 0	0 / 0	13 / 0	0 / 0

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

BRACING

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

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

LOADING

TOTAL LOAD CASES: (5)

MEMB.	CHORDS			WEBS		
	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. UNBRACED LENGTH FR-TO	MAX. FACTORED FORCE (LBS)	MAX. UNBRACED LENGTH FR-TO	MAX. UNBRACED LENGTH FR-TO
E-B	-191 / 0	0.0	0.01 (4)	7.81		
A-B	0 / 22	-77.4	-77.4	0.09 (1)	10.00	
B-C	-8 / 0	-77.4	-77.4	0.05 (1)	10.00	
E-D	0 / 0	-18.2	-18.2	0.02 (4)	10.00	

CANTILEVER ANALYSIS HAS BEEN CONSIDERED IN THIS DESIGN

DESIGN CRITERIA

SPECIFIED LOADS:
TOP CH. LL = 23.3 PSF
DL = 3.0 PSF
BOT CH. LL = 0.0 PSF
DL = 7.3 PSF
TOTAL LOAD = 33.6 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 27.2 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 23.3 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = $L/360$ (0.19")
CALCULATED VERT. DEFL.(LL) = $L/999$ (0.00")
ALLOWABLE DEFL.(TL) = $L/360$ (0.19")
CALCULATED VERT. DEFL.(TL) = $L/999$ (0.00")

CSI: TC=0.09/1.00 (A-B:1), BC=0.02/1.00 (D-E:4), WB=0.00/1.00 (n/a:0), SSI=0.07/1.00 (A-B:1)

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

COMPANION LIVE LOAD FACTOR = 0.50

AUTOSOLVE RIGHT HEEL ONLY

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

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

PLATE PLACEMENT TOL. = 0.250 inches

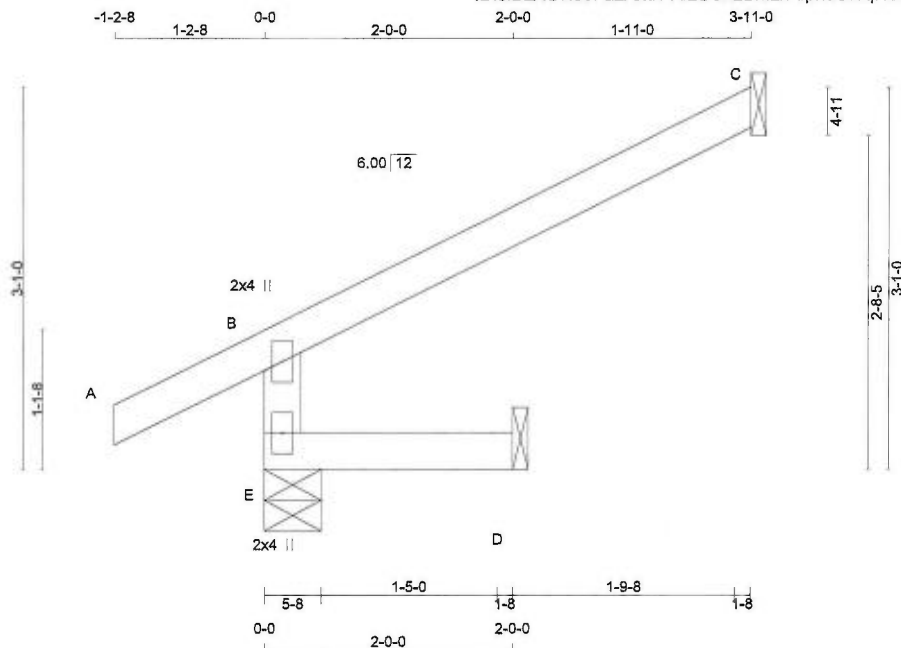
PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.11 (B) (INPUT = 0.90)
JSI METAL= 0.04 (B) (INPUT = 1.00)



READ ALL NOTES ON THIS PAGE AND ON ENGINEERING NOTE PAGE ENP-1. THIS NOTE PAGE IS AN INTEGRAL PART OF THIS DRAWING AS IT CONTAINS SPECIFICATIONS AND CRITERIA USED IN THE DESIGN OF THIS COMPONENT.





TOTAL WEIGHT = 2 X 10 = 19 lb [M]

LUMBER

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

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMV+p	MT20	2.0	4.0		
E	BMV1+p	MT20	2.0	4.0		

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

JT	FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG IN-SX	REQRD BRG IN-SX
	VERT	HORZ	DOWN	HORZ		
E	308	0	308	0	5-8	5-8
C	114	0	114	0	1-8	1-8
D	16	0	18	0	1-8	1-8

SEE MITEK STANDARD DETAIL B37579H FOR CONNECTION TO JOINT(S) C, D

UNFACTORED REACTIONS

JT	1ST LCASE		MAX/MIN. COMPONENT REACTIONS		WIND	DEAD	SOIL
	COMBINED	SNOW	LIVE	PERM. LIVE			
E	212	173 / 0	0 / 0	0 / 0	0 / 0	39 / 0	0 / 0
C	77	68 / 0	0 / 0	0 / 0	0 / 0	9 / 0	0 / 0
D	13	0 / 0	0 / 0	0 / 0	0 / 0	13 / 0	0 / 0

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

BRACING

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

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

LOADING

TOTAL LOAD CASES: (4)

MEMB.	CHORDS		WEBS	
	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. FACTORED FORCE (LBS)	MAX. FACTORED FORCE (LBS)
FR-TO		FROM TO		LENGTH FR-TO
E-B	-288 / 0	0.0 0.0 0.01 (4)	7.81	
A-B	0 / 22	-77.4 -77.4 0.09 (1)	10.00	
B-C	-17 / 0	-77.4 -77.4 0.20 (1)	6.25	
E-D	0 / 0	-18.2 -18.2 0.02 (4)	10.00	

DESIGN CRITERIA

SPECIFIED LOADS:
TOP CH. LL = 23.3 PSF
DL = 3.0 PSF
BOT CH. LL = 0.0 PSF
DL = 7.3 PSF
TOTAL LOAD = 33.6 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 27.2 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 23.3 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = L/360 (0.19")
CALCULATED VERT. DEFL.(LL) = L/999 (0.00")
ALLOWABLE DEFL.(TL) = L/360 (0.19")
CALCULATED VERT. DEFL.(TL) = L/999 (0.00")

CSI: TC=0.20/1.00 (B-C:1), BC=0.02/1.00 (D-E:4),
WB=0.00/1.00 (n/a:0), SSI=0.13/1.00 (B-C:1)

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

COMPANION LIVE LOAD FACTOR = 0.50

AUTOSOLVE RIGHT HEEL ONLY

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

NAIL VALUES

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

PLATE PLACEMENT TOL. = 0.250 inches

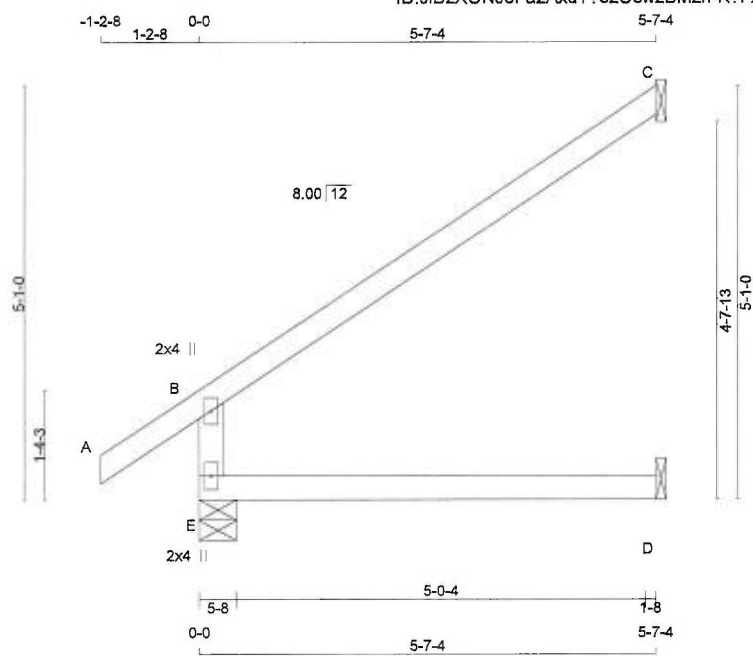
PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.17 (B) (INPUT = 0.90)
JSI METAL= 0.06 (B) (INPUT = 1.00)



READ ALL NOTES ON THIS PAGE AND ON ENGINEERING NOTE PAGE ENP-1. THIS NOTE PAGE IS AN INTEGRAL PART OF THIS DRAWING AS IT CONTAINS SPECIFICATIONS AND CRITERIA USED IN THE DESIGN OF THIS COMPONENT.





Scale = 1:28.3

TOTAL WEIGHT = 2 X 17 = 34 lb [M]

LUMBER
N. L. G. A. RULES

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

DRY: SEASONED LUMBER.

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

BEARINGS

JT	FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG IN-SX	REQRD BRG IN-SX
	VERT	HORZ	DOWN	HORZ		
E	430	0	430	0	5-8	5-8
C	163	0	163	0	1-8	1-8
D	43	0	48	0	1-8	1-8

SEE MITEK STANDARD DETAIL B37579H FOR CONNECTION TO JOINT(S) C, D

UNFACTORED REACTIONS

JT	1ST LCASE		MAX/MIN. COMPONENT REACTIONS				
	COMBINED	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
E	299	223 / 0	0 / 0	0 / 0	0 / 0	76 / 0	0 / 0
C	110	98 / 0	0 / 0	0 / 0	0 / 0	13 / 0	0 / 0
D	34	0 / 0	0 / 0	0 / 0	0 / 0	34 / 0	0 / 0

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

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

LOADING
TOTAL LOAD CASES: (4)

MEMB.	CHORDS		WEBS	
	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. FACTORED FORCE (LBS)	MAX. FACTORED FORCE (LBS)
E-B	-371 / 0	0.0	0.0	7.81
A-B	0 / 28	-77.4	0.09 (1)	10.00
B-C	-30 / 0	-77.4	0.41 (1)	6.25
E-D	0 / 0	-18.2	0.12 (4)	10.00

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH.	LL	PSF
DL	23.3	PSF
DL	3.0	PSF
BOT CH.	LL	PSF
DL	0.0	PSF
DL	7.3	PSF
TOTAL LOAD	33.6	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

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

(55% OF 27.2 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 23.3 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = L/360 (0.19")
CALCULATED VERT. DEFL.(LL) = L/999 (0.00")
ALLOWABLE DEFL.(TL) = L/360 (0.19")
CALCULATED VERT. DEFL.(TL) = L/999 (0.03")

CSI: TC=0.41/1.00 (B-C:1), BC=0.12/1.00 (D-E:4), WB=0.00/1.00 (n/a:0), SSI=0.18/1.00 (B-C:1)

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

COMPANION LIVE LOAD FACTOR = 0.50
AUTOSOLVE RIGHT HEEL ONLY

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

NAIL VALUES

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

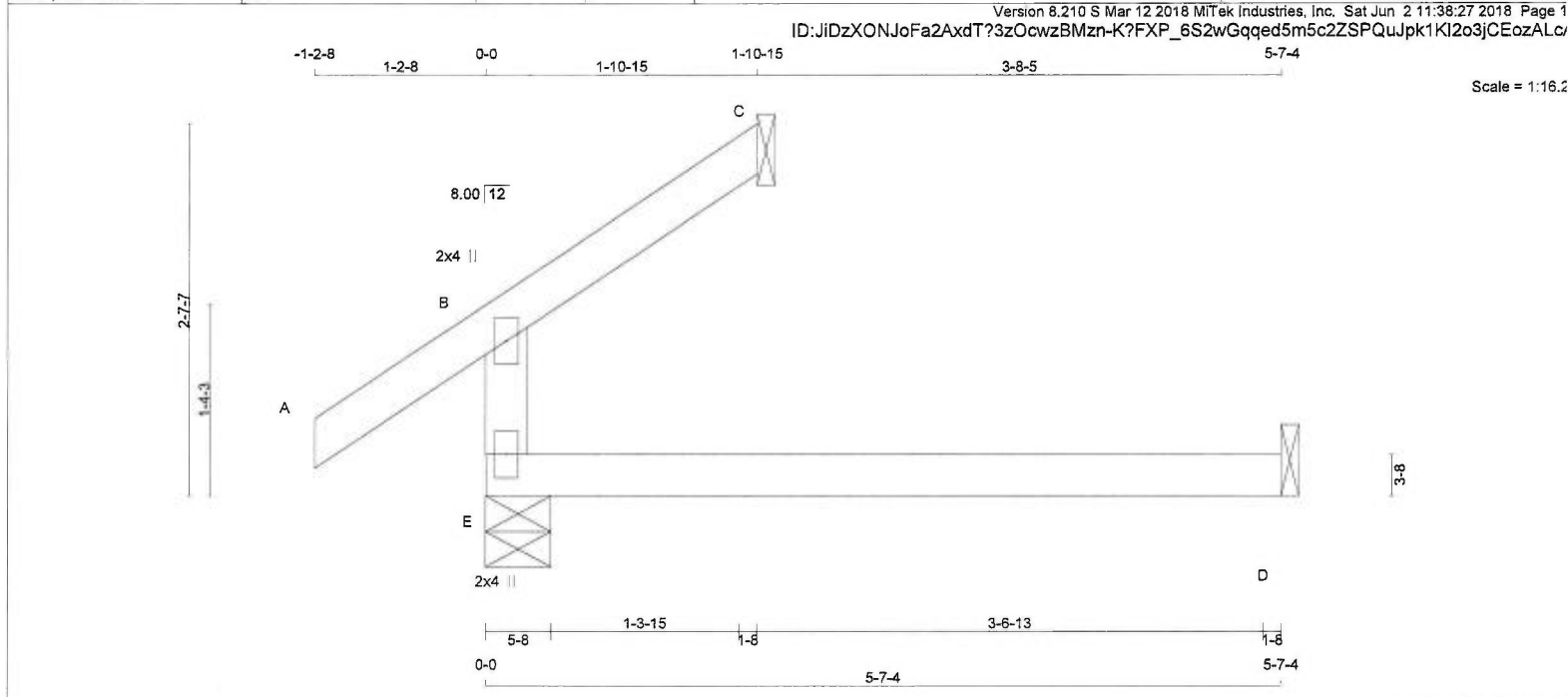
PLATE PLACEMENT TOL. = 0.250 inches
PLATE ROTATION TOL. = 5.0 Deg.

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



READ ALL NOTES ON THIS PAGE AND ON ENGINEERING NOTE PAGE ENP-1. THIS NOTE PAGE IS AN INTEGRAL PART OF THIS DRAWING AS IT CONTAINS SPECIFICATIONS AND CRITERIA USED IN THE DESIGN OF THIS COMPONENT.





LUMBER				DESIGN CRITERIA			
N. L. G. A. RULES				SPECIFIED LOADS:			
CHORDS	SIZE	DRY	LUMBER	TOP CH.	LL	=	23.3 PSF
E - B	2x4	DRY	No.2	DL	=	3.0 PSF	
A - C	2x4	DRY	No.2	BOT CH.	LL	=	0.0 PSF
E - D	2x4	DRY	No.2	DL	=	7.3 PSF	
DRY: SEASONED LUMBER.				TOTAL LOAD	=	33.6 PSF	

PLATES (table is in inches)				UNFACTORED REACTIONS			
JT TYPE	PLATES	W	LEN Y X	1ST LCASE	MAX/MIN	COMPONENT REACTIONS	
B	TMV+p	MT20	2.0 4.0	COMBINED	SNOW	LIVE	PERM.LIVE WIND DEAD SOIL
E	BMV1+p	MT20	2.0 4.0				

SEE MITEK STANDARD DETAIL B37579H FOR CONNECTION TO JOINT(S) C, D

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

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

LOADING				BEARING MATERIAL			
TOTAL LOAD CASES: (4)				TO BE SPF NO.2 OR BETTER AT JOINT(S) E, C			
CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	LC1 MAX. CSI (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. CSI (LC)	
FR-TO		FROM TO		FR-TO			
E-B	-192 / 0	0.0 0.0	0.11 (4)	7.81			
A-B	0 / 28	-77.4 -77.4	0.09 (1)	10.00			
B-C	-10 / 0	-77.4 -77.4	0.05 (1)	10.00			
E-D	0 / 0	-18.2 -18.2	0.12 (4)	10.00			

DESIGN ASSUMPTIONS
- OVERHANG NOT TO BE ALTERED OR CUT OFF.
(55 % OF 27.2 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 23.3 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL)= L/360 (0.19")
CALCULATED VERT. DEFL.(LL)= L/999 (0.00")
ALLOWABLE DEFL.(TL)= L/360 (0.19")
CALCULATED VERT. DEFL.(TL)= L/999 (0.03")

CSI: TC=0.11/1.00 (B-E:4), BC=0.12/1.00 (D-E:4), WB=0.00/1.00 (n/a:0), SSI=0.08/1.00 (D-E: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

AUTOSOLVE RIGHT HEEL ONLY

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

NAIL VALUES

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

PLATE PLACEMENT TOL. = 0.250 inches

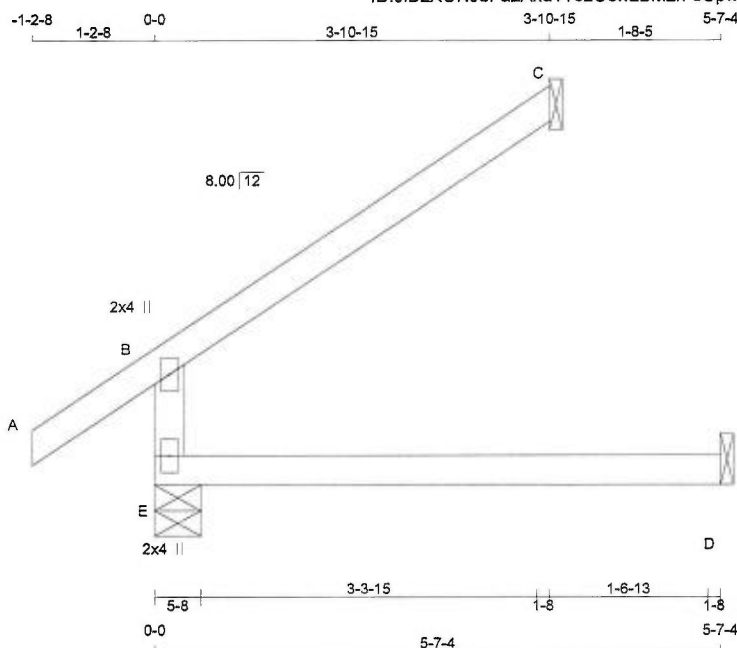
PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.12 (B) (INPUT = 0.90)
JSI METAL= 0.05 (B) (INPUT = 1.00)



READ ALL NOTES ON THIS PAGE AND ON ENGINEERING NOTE PAGE ENP-1. THIS NOTE PAGE IS AN INTEGRAL PART OF THIS DRAWING AS IT CONTAINS SPECIFICATIONS AND CRITERIA USED IN THE DESIGN OF THIS COMPONENT.





Scale = 1:22.5

TOTAL WEIGHT = 15 lb
[M]

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

DRY: SEASONED LUMBER.

PLATES (table is in inches)					
JT	TYPE	PLATES	W	LEN	X
B	TMV+p	MT20	2.0	4.0	
E	BMV1+p	MT20	2.0	4.0	

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

JT	FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG		REQRD BRG	
	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX	IN-SX
E	348	0	348	0	0	5-8	5-8	
C	114	0	114	0	0	1-8	1-8	
D	43	0	48	0	0	1-8	1-8	

SEE MITEK STANDARD DETAIL B37579H FOR CONNECTION TO JOINT(S) C, D

UNFACTORED REACTIONS

1ST LCASE		MAX./MIN. COMPONENT REACTIONS					
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
E	244	174 / 0	0 / 0	0 / 0	0 / 0	70 / 0	0 / 0
C	77	68 / 0	0 / 0	0 / 0	0 / 0	9 / 0	0 / 0
D	34	0 / 0	0 / 0	0 / 0	0 / 0	34 / 0	0 / 0

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

BRACING

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

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

LOADING

TOTAL LOAD CASES: (4)

MEMB.	CHORDS		WEBS	
	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)
FR-TO				
E-B	-289 / 0	0.0	0.0	0.11 (4)
A-B	0 / 28	-77.4	-77.4	0.09 (1)
B-C	-21 / 0	-77.4	-77.4	0.20 (1)
E-D	0 / 0	-18.2	-18.2	0.12 (4)

DESIGN CRITERIA

SPECIFIED LOADS:
TOP CH. LL = 23.3 PSF
DL = 3.0 PSF
BOT CH. LL = 0.0 PSF
DL = 7.3 PSF
TOTAL LOAD = 33.6 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 27.2 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 23.3 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = $L/360$ (0.19")
CALCULATED VERT. DEFL.(LL) = $L/999$ (0.00")
ALLOWABLE DEFL.(TL) = $L/360$ (0.19")
CALCULATED VERT. DEFL.(TL) = $L/999$ (0.03")

CSI: TC=0.20/1.00 (B-C:1), BC=0.12/1.00 (D-E:4), WB=0.00/1.00 (n/a:0), SSI=0.12/1.00 (B-C:1)

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

COMPANION LIVE LOAD FACTOR = 0.50

AUTOSOLVE RIGHT HEEL ONLY

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

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

PLATE PLACEMENT TOL. = 0.250 inches

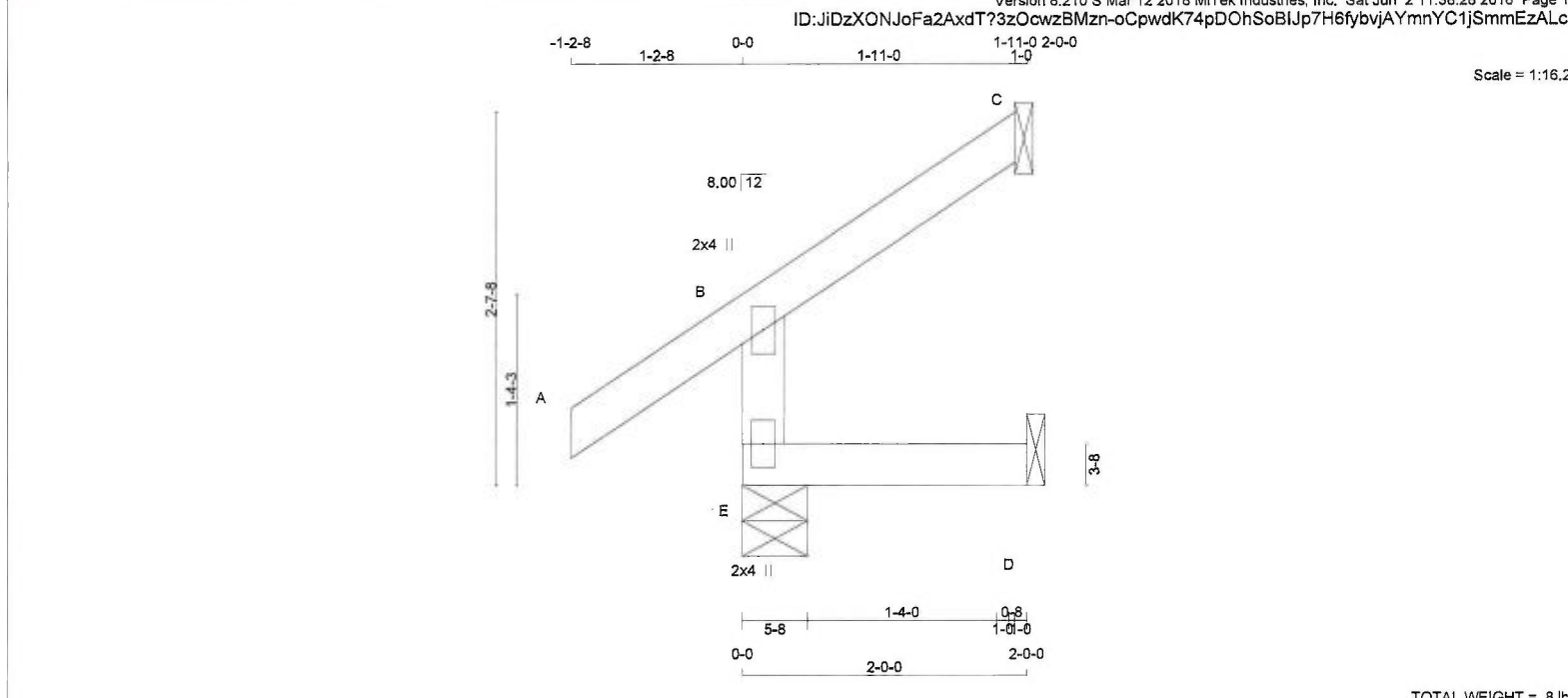
PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.19 (B) (INPUT = 0.90)
JSI METAL= 0.07 (B) (INPUT = 1.00)



READ ALL NOTES ON THIS PAGE AND ON ENGINEERING NOTE PAGE ENP-1. THIS NOTE PAGE IS AN INTEGRAL PART OF THIS DRAWING AS IT CONTAINS SPECIFICATIONS AND CRITERIA USED IN THE DESIGN OF THIS COMPONENT.



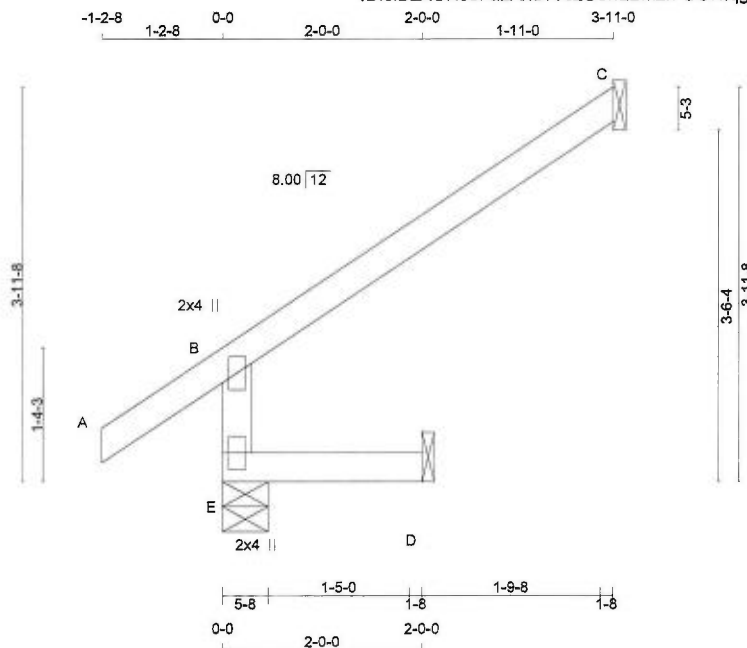


LUMBER N. L. G. A. RULES CHORDS SIZE E - B 2x4 DRY No.2 A - C 2x4 DRY No.2 E - D 2x4 DRY No.2 DRY: SEASONED LUMBER.				DESIGN CRITERIA SPECIFIED LOADS: TOP CH. LL = 23.3 PSF DL = 3.0 PSF BOT CH. LL = 0.0 PSF DL = 7.3 PSF TOTAL LOAD = 33.6 PSF SPACING = 24.0 IN. C/C THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBC 2010 THIS DESIGN COMPLIES WITH: - PART 9 OF OBC 2012, BCBC 2012, ABC 2014 - CSA 088-09 - TPIC 2011 DESIGN ASSUMPTIONS -OVERHANG NOT TO BE ALTERED OR CUT OFF. (55% OF 27.2 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 23.3 P.S.F. SPECIFIED ROOF LIVE LOAD ALLOWABLE DEFL.(LL)= L/360 (0.19") CALCULATED VERT. DEFL.(LL) = L/999 (0.00") ALLOWABLE DEFL.(TL)= L/360 (0.19") CALCULATED VERT. DEFL.(TL) = L/999 (0.00") CSI: TC=0.09/1.00 (A-B:1), BC=0.02/1.00 (D-E:4), WB=0.00/1.00 (n/a:0), SSI=0.06/1.00 (A-B:1) DOL LUMBER=1.00 NAIL=1.00 LS BEND=1.10 COMP=1.10 SHEAR=1.10 TENS=1.10 COMPANION LIVE LOAD FACTOR = 0.50 AUTOSOLVE RIGHT HEEL ONLY TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT. NAIL VALUES PLATE GRIP(DRY) SHEAR SECTION (PSI) (PLI) (PLI) MAX MIN MAX MIN MAX MIN MT20 618 354 1667 822 2284 1656 PLATE PLACEMENT TOL. = 0.250 inches PLATE ROTATION TOL. = 5.0 Deg. JSI GRIP= 0.12 (B) (INPUT = 0.90) JSI METAL= 0.05 (B) (INPUT = 1.00)			
PLATES (table is in inches) JT TYPE PLATES W LEN Y X B TMV+p MT20 2.0 4.0 E BMV1+p MT20 2.0 4.0				UNFACTORED REACTIONS 1ST LCASE MAX/MIN. COMPONENT REACTIONS JT COMBINED SNOW LIVE PERM.LIVE WIND DEAD SOIL E 146 115/0 0/0 0/0 0/0 31/0 0/0 C 38 34/0 0/0 0/0 0/0 4/0 0/0 D 13 0/0 0/0 0/0 0/0 13/0 0/0			
BEARING TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 10.00 FT. MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED. ALL PITCH BREAKS AND PERIMETER CORNER JOINTS MUST BE Laterally RESTRAINED.				LOADING TOTAL LOAD CASES: (5) C H O R D S MAX. FACTORED FORCE VERT. LOAD LC1 MAX. FACTORED FORCE VERT. LOAD LC1 MEMB. (LBS) (PLF) CSI (LC) UNBRAC LENGTH FR-TO FR-TO E-B -192/0 0.0 0.0 0.01 (4) 7.81 A-B 0/28 -77.4 -77.4 0.09 (1) 10.00 B-C -10/0 -77.4 -77.4 0.05 (1) 10.00 E-D 0/0 -18.2 -18.2 0.02 (4) 10.00			
BRACING TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 10.00 FT. MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED. ALL PITCH BREAKS AND PERIMETER CORNER JOINTS MUST BE Laterally RESTRAINED.				CANTILEVER ANALYSIS HAS BEEN CONSIDERED IN THIS DESIGN			



READ ALL NOTES ON THIS PAGE AND ON
 ENGINEERING NOTE PAGE ENP-1. THIS
 NOTE PAGE IS AN INTEGRAL PART OF
 THIS DRAWING AS IT CONTAINS
 SPECIFICATIONS AND CRITERIA USED IN
 THE DESIGN OF THIS COMPONENT.





TOTAL WEIGHT = 11 lb [M]

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

DRY: SEASONED LUMBER.

DESCR.
SPF
SPF
SPF

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		
E	309	0	309	0	5-8	5-8
C	114	0	114	0	1-8	1-8
D	16	0	18	0	1-8	1-8

SEE MITEK STANDARD DETAIL B37579H FOR CONNECTION TO JOINT(S) C, D

UNFACTORED REACTIONS

JT	1ST LCASE		MAX./MIN. COMPONENT REACTIONS		WIND	DEAD	SOIL
	COMBINED	SNOW	LIVE	PERM. LIVE			
E	212	174 / 0	0 / 0	0 / 0	0 / 0	38 / 0	0 / 0
C	77	68 / 0	0 / 0	0 / 0	0 / 0	9 / 0	0 / 0
D	13	0 / 0	0 / 0	0 / 0	0 / 0	13 / 0	0 / 0

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

BRACING

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

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

LOADING

TOTAL LOAD CASES: (4)

MEMB.	CHORDS		WEBS	
	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. FACTORED UNBRACED LENGTH (FT)	MAX. FACTORED FORCE (LBS)
FR-TO		FROM TO		
E-B	-289 / 0	0.0 0.0 0.01 (4)	7.81	
A-B	0 / 28	-77.4 -77.4 0.09 (1)	10.00	
B-C	-21 / 0	-77.4 -77.4 0.20 (1)	6.25	
E-D	0 / 0	-18.2 -18.2 0.02 (4)	10.00	

DESIGN CRITERIA

SPECIFIED LOADS:
TOP CH. LL = 23.3 PSF
DL = 3.0 PSF
BOT CH. LL = 0.0 PSF
DL = 7.3 PSF
TOTAL LOAD = 33.6 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 27.2 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 23.3 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = L/360 (0.19")
CALCULATED VERT. DEFL.(LL) = L/999 (0.00")
ALLOWABLE DEFL.(TL) = L/360 (0.19")
CALCULATED VERT. DEFL.(TL) = L/999 (0.00")

CSI: TC=0.20/1.00 (B-C:1), BC=0.02/1.00 (D-E:4), WB=0.00/1.00 (n/a:0), SSI=0.12/1.00 (B-C:1)

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

COMPANION LIVE LOAD FACTOR = 0.50

AUTOSOLVE RIGHT HEEL ONLY

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

NAIL VALUES

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

PLATE PLACEMENT TOL. = 0.250 inches

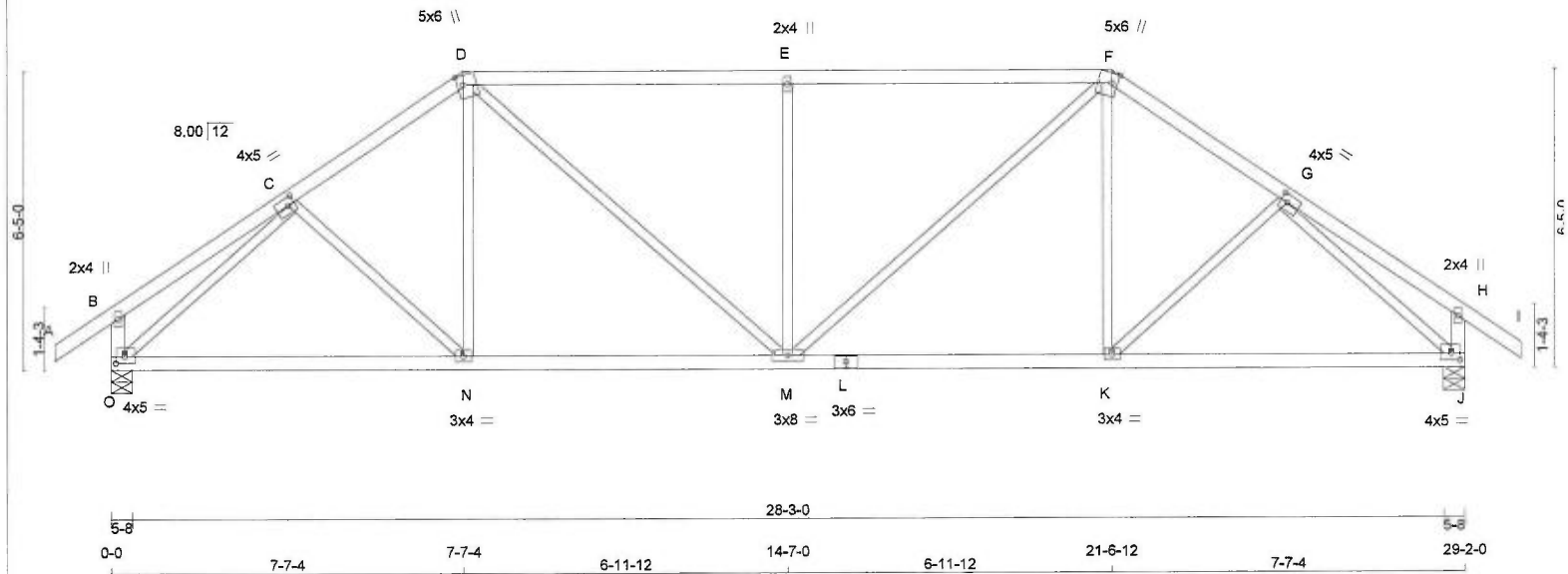
PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.19 (B) (INPUT = 0.90)
JSI METAL= 0.07 (B) (INPUT = 1.00)



READ ALL NOTES ON THIS PAGE AND ON ENGINEERING NOTE PAGE ENP-1. THIS NOTE PAGE IS AN INTEGRAL PART OF THIS DRAWING AS IT CONTAINS SPECIFICATIONS AND CRITERIA USED IN THE DESIGN OF THIS COMPONENT.





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 EXCEPT	2x3	DRY	No.2

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	5.0	2.00	1.75
D	TTWW+m	MT20	5.0	6.0	2.50	1.50
E	TMW+w	MT20	2.0	4.0		
F	TTWW+m	MT20	5.0	6.0	2.50	1.50
G	TMWW-t	MT20	4.0	5.0	2.00	1.75
H	TMV+p	MT20	2.0	4.0		
J	BMVW1-t	MT20	4.0	5.0	1.75	2.25
K	BMWW-t	MT20	3.0	4.0		
L	BS-t	MT20	3.0	6.0		
M	BMWWW-t	MT20	3.0	8.0		
N	BMWW-t	MT20	3.0	4.0		
O	BMVW1-t	MT20	4.0	5.0	1.75	2.25



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

BEARINGS

JT	FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG IN-SX	REQRD BRG IN-SX
	VERT	HORZ	DOWN	HORZ		
O	1494	0	1494	0	5-8	5-8
J	1494	0	1494	0	5-8	5-8

UNFACTORED REACTIONS

JT	1ST LCASE COMBINED		MAX./MIN. SNOW		LIVE		PERM. LIVE		WIND	DEAD	SOIL
	VERT	HORZ	DOWN	HORZ	DOWN	HORZ	DOWN	HORZ			
O	1047	739 / 0	0 / 0	0 / 0	0 / 0	0 / 0	0 / 0	0 / 0	308 / 0	0 / 0	0 / 0
J	1047	739 / 0	0 / 0	0 / 0	0 / 0	0 / 0	0 / 0	0 / 0	308 / 0	0 / 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 = 4.41 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

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

LOADING
TOTAL LOAD CASES: (4)

CHORDS					WEBS				
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. LC1 (LC)	MAX. UNBRACED LENGTH	MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. LC1 (LC)	
FR-TO		FROM TO			FR-TO				
A-B	0 / 28	-77.4	-77.4	0.09 (1)	10.00	C-N	-7 / 52	0.02 (4)	
B-C	0 / 17	-77.4	-77.4	0.16 (1)	10.00	N-D	0 / 160	0.05 (4)	
C-D	-1580 / 0	-77.4	-77.4	0.16 (1)	5.11	D-M	0 / 586	0.13 (1)	
D-E	-1742 / 0	-77.4	-77.4	0.55 (1)	4.41	M-E	-664 / 0	0.44 (1)	
E-F	-1742 / 0	-77.4	-77.4	0.55 (1)	4.41	M-F	0 / 586	0.13 (1)	
F-G	-1580 / 0	-77.4	-77.4	0.16 (1)	5.11	K-F	0 / 160	0.05 (4)	
G-H	0 / 17	-77.4	-77.4	0.16 (1)	10.00	K-G	-8 / 52	0.02 (4)	
H-I	0 / 28	-77.4	-77.4	0.09 (1)	10.00	O-C	-1787 / 0	0.78 (1)	
O-B	-215 / 0	0.0	0.0	0.02 (1)	7.81	G-J	-1787 / 0	0.78 (1)	
J-H	-215 / 0	0.0	0.0	0.02 (1)	7.81				
O-N	0 / 1303	-18.2	-18.2	0.35 (1)	10.00				
N-M	0 / 1301	-18.2	-18.2	0.35 (4)	10.00				
M-L	0 / 1301	-18.2	-18.2	0.35 (4)	10.00				
L-K	0 / 1301	-18.2	-18.2	0.35 (4)	10.00				
K-J	0 / 1304	-18.2	-18.2	0.35 (1)	10.00				

TOTAL WEIGHT = 2 X 120 = 241 lb (M)F

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH.	LL	PSF
LL	23.3	PSF
DL	3.0	PSF
BOT CH.	LL	PSF
LL	0.0	PSF
DL	7.3	PSF
TOTAL LOAD	33.6	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, CBC 2012, ABC 2014
- CSA 086-09
- TPIC 2011

(55% OF 27.2 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 23.3 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=0.55/1.00 (E-F:1), BC=0.35/1.00 (K-M:4), WB=0.78/1.00 (G-J:1), SS=0.26/1.00 (E-F:1)

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

COMPANION LIVE LOAD FACTOR = 0.50

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

NAIL VALUES

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

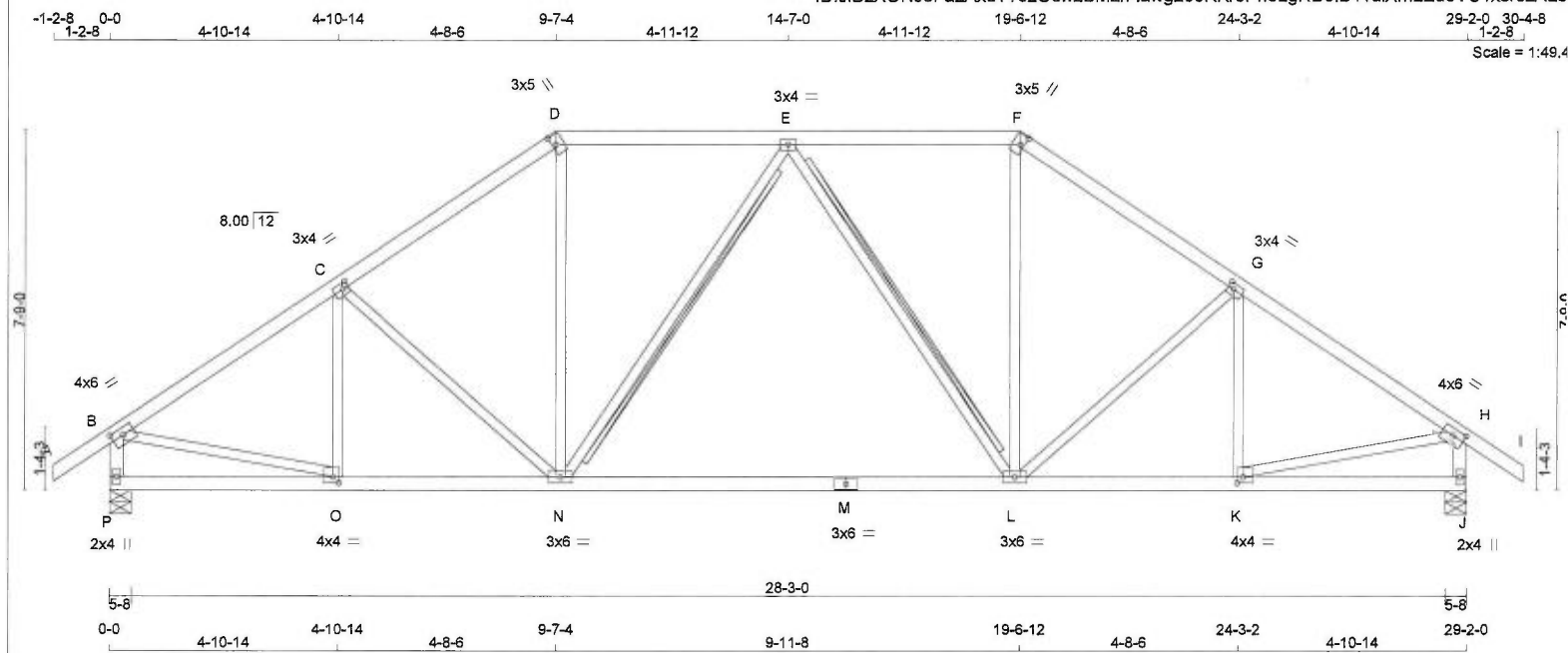
PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.90 (G) (INPUT = 0.90)
JSI METAL= 0.53 (C) (INPUT = 1.00)

READ ALL NOTES ON THIS PAGE AND ON ENGINEERING NOTE PAGE ENP-1. THIS NOTE PAGE IS AN INTEGRAL PART OF THIS DRAWING AS IT CONTAINS SPECIFICATIONS AND CRITERIA USED IN THE DESIGN OF THIS COMPONENT.





TOTAL WEIGHT = 2 X 127 = 253 lb
(M)F

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
P - B	2x4	DRY	No.2
J - H	2x4	DRY	No.2
P - M	2x4	DRY	No.2
M - J	2x4	DRY	No.2
ALL WEBS EXCEPT	2x3	DRY	No.2

DRY: SEASONED LUMBER.

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

BEARINGS

JT	FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG IN-SX	REQRD BRG IN-SX
	VERT	HORZ	DOWN	HORZ		
P	1494	0	1494	0	5-8	5-8
J	1494	0	1494	0	5-8	5-8

UNFACTORED REACTIONS

JT	1ST LCASE COMBINED		MAX./MIN. COMPONENT REACTIONS		WIND	DEAD	SOIL
	SNOW	LIVE	PERM.	LIVE			
P	1047	739 / 0	0 / 0	0 / 0	0 / 0	308 / 0	0 / 0
J	1047	739 / 0	0 / 0	0 / 0	0 / 0	308 / 0	0 / 0

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

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

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

2x4 DRY SPF No.2 T-BRACE AT E-N, E-L

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)

MEMB.	CHORDS		FACTORED		MAX. UNBRACED LENGTH	MEMB.	WEBS	
	MAX. FORCE (LBS)	VERT. LOAD (PLF)	MAX. (PLF)	MAX. (LC)			MAX. FORCE (LBS)	MAX. (LC)
FR-TO		FROM	TO			FR-TO		
A-B	0 / 28	-77.4	-77.4	0.09 (1)	10.00	O-C	-220 / 0	0.07 (1)
B-C	-1628 / 0	-77.4	-77.4	0.26 (1)	4.94	C-N	-208 / 0	0.16 (1)
C-D	-1492 / 0	-77.4	-77.4	0.25 (1)	5.12	N-D	0 / 529	0.12 (1)
D-E	-1227 / 0	-77.4	-77.4	0.26 (1)	5.50	N-E	-280 / 0	0.18 (1)
E-F	-1227 / 0	-77.4	-77.4	0.26 (1)	5.50	E-L	-280 / 0	0.18 (1)
F-G	-1492 / 0	-77.4	-77.4	0.25 (1)	5.12	L-F	0 / 529	0.12 (1)
G-H	-1629 / 0	-77.4	-77.4	0.26 (1)	4.94	L-G	-209 / 0	0.16 (1)
H-I	0 / 28	-77.4	-77.4	0.09 (1)	10.00	K-G	-219 / 0	0.07 (1)
P-B	-1451 / 0	0.0	0.0	0.15 (1)	6.79	B-O	0 / 1404	0.32 (1)
J-H	-1451 / 0	0.0	0.0	0.15 (1)	6.79	K-H	0 / 1405	0.32 (1)
P-O	0 / 0	-18.2	-18.2	0.11 (4)	10.00			
O-N	0 / 1374	-18.2	-18.2	0.38 (1)	10.00			
N-M	0 / 1380	-18.2	-18.2	0.38 (1)	10.00			
M-L	0 / 1380	-18.2	-18.2	0.38 (1)	10.00			
L-K	0 / 1375	-18.2	-18.2	0.38 (1)	10.00			
K-J	0 / 0	-18.2	-18.2	0.11 (4)	10.00			

DESIGN CRITERIA

SPECIFIED LOADS:
TOP CH. LL = 23.3 PSF
DL = 3.0 PSF
BOT CH. LL = 0.0 PSF
DL = 7.3 PSF
TOTAL LOAD = 33.6 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 27.2 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 23.3 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 (0.24")

CSI: TC=0.26/1.00 (G-H:1), BC=0.38/1.00 (L-N:1), WB=0.32/1.00 (H-K:1), SSI=0.19/1.00 (D-E:1)

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

COMPANION LIVE LOAD FACTOR = 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

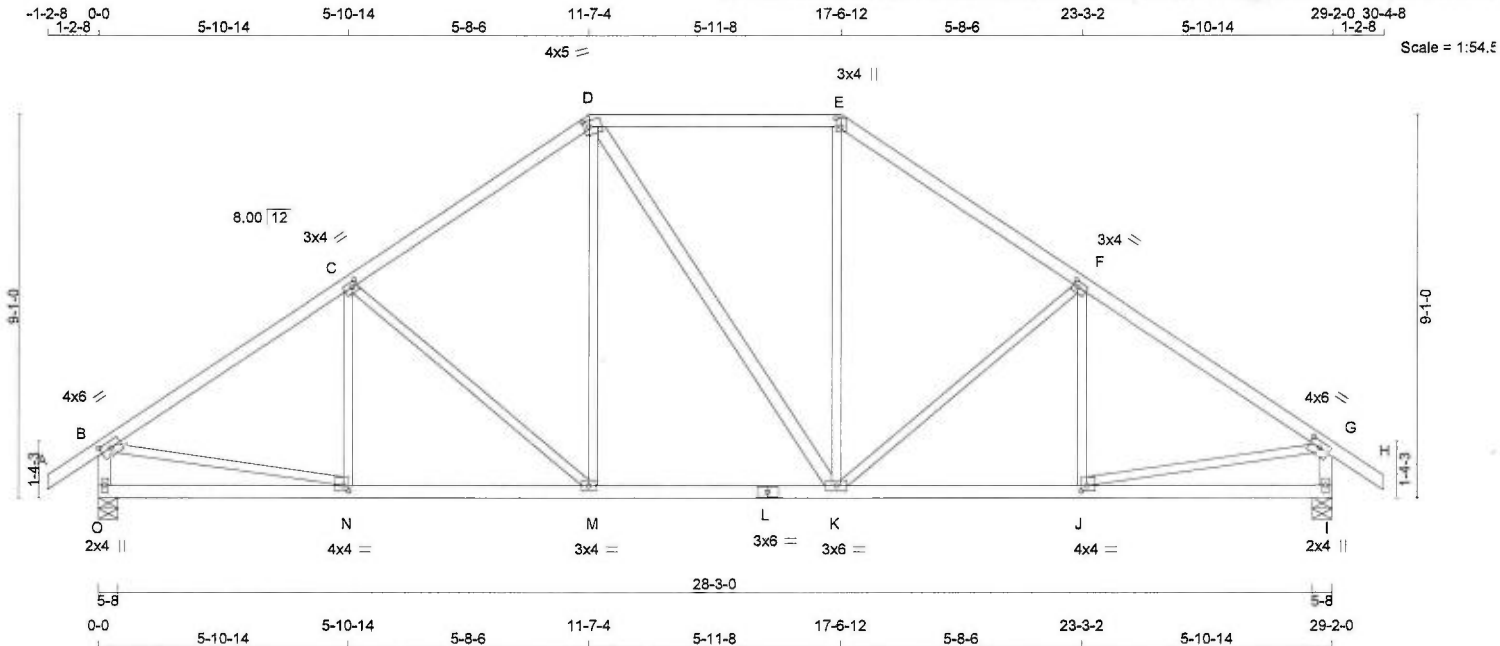
PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.88 (D) (INPUT = 0.90)
JSI METAL= 0.54 (M) (INPUT = 1.00)



READ ALL NOTES ON THIS PAGE AND ON ENGINEERING NOTE PAGE ENP-1. THIS NOTE PAGE IS AN INTEGRAL PART OF THIS DRAWING AS IT CONTAINS SPECIFICATIONS AND CRITERIA USED IN THE DESIGN OF THIS COMPONENT.





TOTAL WEIGHT = 132 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 - H	2x4	DRY	No.2	SPF	
O - B	2x4	DRY	No.2	SPF	
I - G	2x4	DRY	No.2	SPF	
O - L	2x4	DRY	No.2	SPF	
L - I	2x4	DRY	No.2	SPF	
ALL WEBS EXCEPT D - K	2x3	DRY	No.2	SPF	
D - K	2x4	DRY	No.2	SPF	

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMVV-t	MT20	4.0	6.0	1.75	3.00
C	TMVV-t	MT20	3.0	4.0	1.50	1.50
D	TTVV-m	MT20	4.0	5.0	1.75	1.50
E	TTVV-p	MT20	3.0	4.0	2.50	1.50
F	TMVV-t	MT20	3.0	4.0	1.50	1.50
G	TMVV-t	MT20	4.0	6.0	1.75	3.00
I	BMV1+p	MT20	2.0	4.0		
J	BMVV-t	MT20	4.0	4.0	1.50	1.50
K	BMVVW-t	MT20	3.0	6.0		
L	BS-t	MT20	3.0	6.0		
M	BMVVW-t	MT20	3.0	4.0		
N	BMVVW-t	MT20	4.0	4.0	1.50	1.50
O	BMV1+p	MT20	2.0	4.0		

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

BEARINGS		FACTORED		MAXIMUM FACTORED		INPUT		REQRD	
JT	GROSS REACTION	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	BRG	IN-SX
O	1494	0	1494	0	0	5-8	5-8	5-8	5-8
I	1494	0	1494	0	0	5-8	5-8	5-8	5-8

UNFACTORED REACTIONS

JT	1ST LCASE	MAX	MIN	COMPONENT REACTIONS	WIND	DEAD	SOIL
O	1047	739 / 0	0 / 0	PERM. LIVE	0 / 0	308 / 0	0 / 0
I	1047	739 / 0	0 / 0	0 / 0	0 / 0	308 / 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 = 4.75 FT. MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. UNBRACED LENGTH (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. UNBRACED LENGTH (LC)	
FR-TO		FROM TO		FR-TO			
A-B	0 / 28	-77.4 -77.4	0.09 (1)	10.00	N-C	-126 / 62	0.05 (1)
B-C	-1649 / 0	-77.4 -77.4	0.40 (1)	4.76	C-M	-375 / 0	0.44 (1)
C-D	-1368 / 0	-77.4 -77.4	0.37 (1)	5.15	M-D	0 / 347	0.08 (1)
D-E	-1116 / 0	-77.4 -77.4	0.37 (1)	5.54	D-K	0 / 0	0.00 (1)
E-F	-1369 / 0	-77.4 -77.4	0.37 (1)	5.15	K-E	0 / 348	0.08 (1)
F-G	-1649 / 0	-77.4 -77.4	0.40 (1)	4.75	K-F	-374 / 0	0.44 (1)
G-H	0 / 28	-77.4 -77.4	0.09 (1)	10.00	J-F	-127 / 81	0.05 (1)
O-B	-1449 / 0	0.0 0.0	0.15 (1)	6.79	B-N	0 / 1417	0.32 (1)
I-G	-1449 / 0	0.0 0.0	0.15 (1)	6.79	J-G	0 / 1417	0.32 (1)
O-N	0 / 0	-18.2 -18.2	0.15 (4)	10.00			
N-M	0 / 1396	-18.2 -18.2	0.30 (1)	10.00			
M-L	0 / 1116	-18.2 -18.2	0.25 (1)	10.00			
L-K	0 / 1116	-18.2 -18.2	0.25 (1)	10.00			
K-J	0 / 1397	-18.2 -18.2	0.29 (1)	10.00			
J-I	0 / 0	-18.2 -18.2	0.15 (4)	10.00			

DESIGN CRITERIA

SPECIFIED LOADS:
TOP CH. LL = 23.3 PSF
DL = 3.0 PSF
BOT CH. LL = 0.0 PSF
DL = 7.3 PSF
TOTAL LOAD = 33.6 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 27.2 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 23.3 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 (0.11")

CSI: TC=0.40/1.00 (F-G:1), BC=0.30/1.00 (M-N:1), WB=0.44/1.00 (C-M:1), SSI=0.18/1.00 (F-G:1)

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

COMPANION LIVE LOAD FACTOR = 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
	618	354	1667	822
	2284	1656		

PLATE PLACEMENT TOL. = 0.250 inches

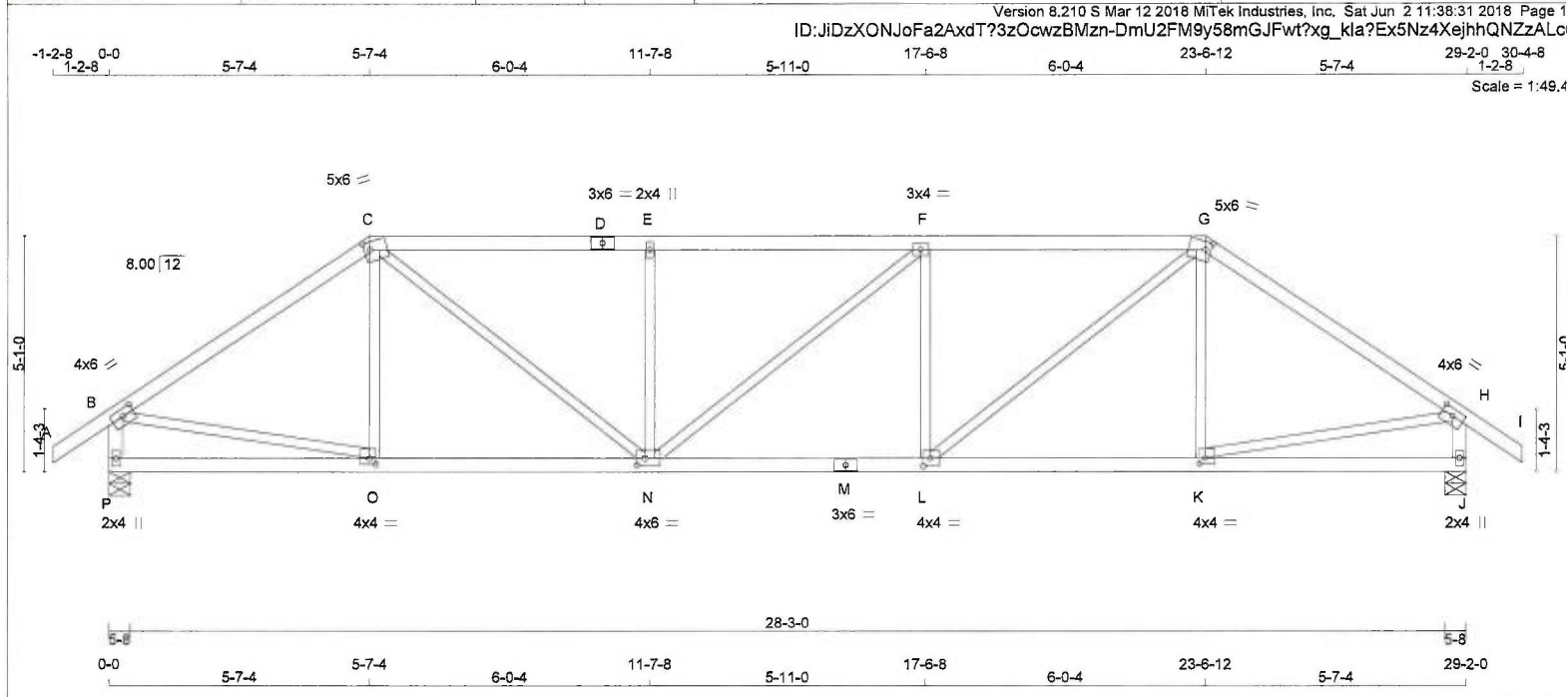
PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.89 (E) (INPUT = 0.90)
JSI METAL= 0.52 (J) (INPUT = 1.00)



READ ALL NOTES ON THIS PAGE AND ON ENGINEERING NOTE PAGE ENP-1. THIS NOTE PAGE IS AN INTEGRAL PART OF THIS DRAWING AS IT CONTAINS SPECIFICATIONS AND CRITERIA USED IN THE DESIGN OF THIS COMPONENT.



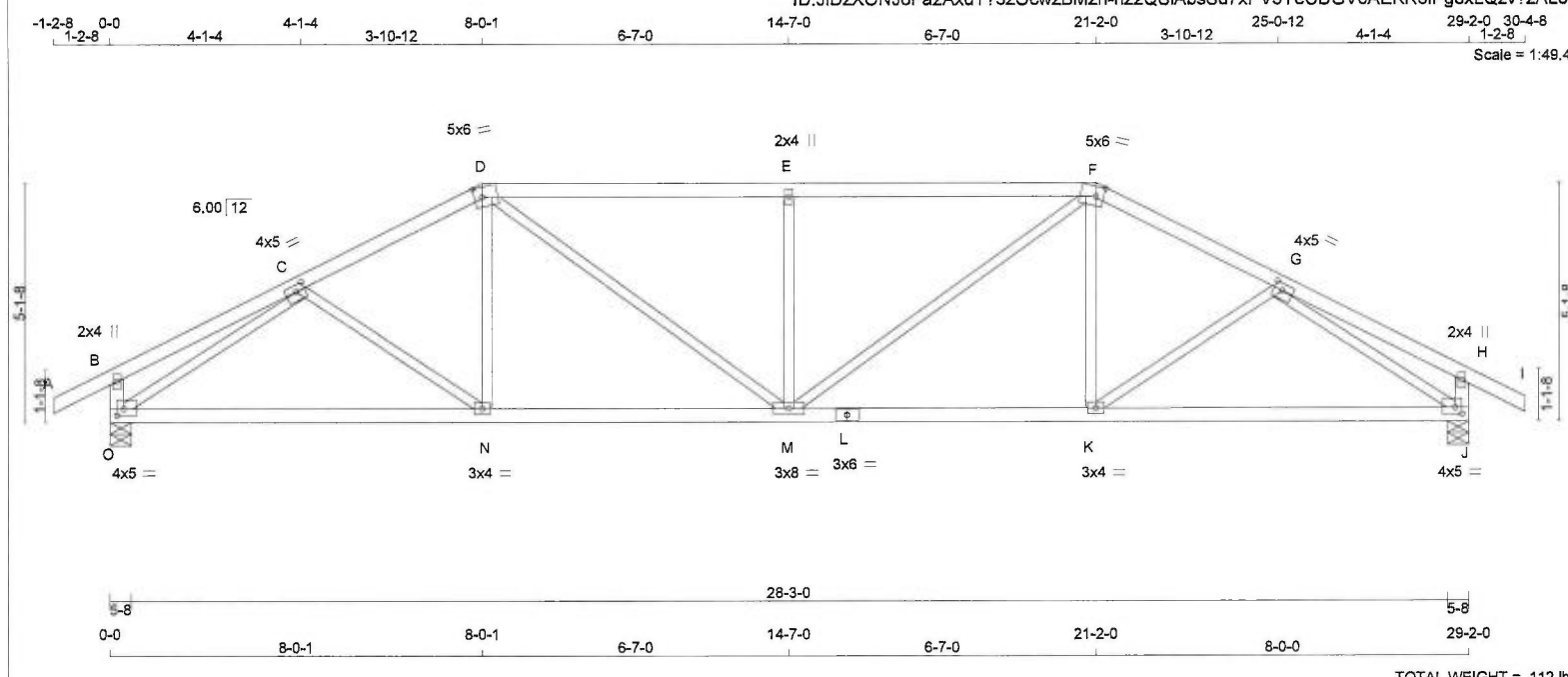


LUMBER N. L. G. A. RULES CHORDS SIZE LUMBER DESCR.				DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER BEARINGS				DESIGN CRITERIA			
A - C	2x4	DRY	No.2	SPF	FACTORED	MAXIMUM FACTORED	INPUT	REQRD	SPECIFIED LOADS:		
C - D	2x4	DRY	No.2	SPF	GROSS REACTION	GROSS REACTION	BRG	BRG	TOP CH. LL = 23.3 PSF		
D - G	2x4	DRY	No.2	SPF	JT VERT	DOWN	UPLIFT	IN-SX	DL = 3.0 PSF		
G - I	2x4	DRY	No.2	SPF	P 1494	0	0	5-8	BOT CH. LL = 0.0 PSF		
P - B	2x4	DRY	No.2	SPF	J 1494	0	0	5-8	DL = 7.3 PSF		
J - H	2x4	DRY	No.2	SPF					TOTAL LOAD = 33.6 PSF		
P - M	2x4	DRY	No.2	SPF							
M - J	2x4	DRY	No.2	SPF							
ALL WEBS	2x3	DRY	No.2	SPF	UNFACTORED REACTIONS				SPACING = 24.0 IN. C/C		
EXCEPT					1ST LCASE	MAX/MIN. COMPONENT REACTIONS			LOADING IN FLAT SECTION BASED ON A SLOPE OF 2.00/12 MINIMUM		
DRY: SEASONED LUMBER.					JT COMBINED	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
					P 1047	739 / 0	0 / 0	0 / 0	0 / 0	308 / 0	0 / 0
					J 1047	739 / 0	0 / 0	0 / 0	0 / 0	308 / 0	0 / 0
					BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) P, J				THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBC 2010		
					BRACING TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.18 FT. MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.				THIS DESIGN COMPLIES WITH: - PART 9 OF OBC 2012, BCBC 2012, ABC 2014 - CSA 086-09 - TPIC 2011		
					LOADING TOTAL LOAD CASES: (4)				(55 % OF 27.2 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 23.3 P.S.F. SPECIFIED ROOF LIVE LOAD		
					CHORDS MAX. FACTORED FORCE (LBS) FACTORED VERT. LOAD (PLF) MAX. UNBRACED LENGTH (LC)				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")		
					MEMB.	FR-TO	FROM TO	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. UNBRACED LENGTH (LC)	
					A-B	0 / 28	-77.4 -77.4 0.09 (1)	10.00	O-C	-121 / 59	0.05 (1)
					B-C	-1609 / 0	-77.4 -77.4 0.53 (1)	4.60	C-N	0 / 972	0.22 (1)
					C-D	-2097 / 0	-77.4 -77.4 0.49 (1)	4.19	N-E	-499 / 0	0.19 (1)
					D-E	-2097 / 0	-77.4 -77.4 0.49 (1)	4.19	N-F	-3 / 0	0.00 (1)
					E-F	-2096 / 0	-77.4 -77.4 0.50 (1)	4.18	L-F	-500 / 0	0.19 (1)
					F-G	-2098 / 0	-77.4 -77.4 0.50 (1)	4.18	L-G	0 / 974	0.22 (1)
					G-H	-1610 / 0	-77.4 -77.4 0.53 (1)	4.60	K-G	-121 / 59	0.05 (1)
					H-I	0 / 28	-77.4 -77.4 0.09 (1)	10.00	B-O	0 / 1359	0.31 (1)
					P-B	-1453 / 0	0.0 0.0 0.15 (1)	6.78	K-H	0 / 1359	0.31 (1)
					J-H	-1452 / 0	0.0 0.0 0.15 (1)	6.78			
					P-O	0 / 0	-18.2 -18.2 0.15 (4)	10.00			
					O-N	0 / 1335	-18.2 -18.2 0.30 (1)	10.00			
					N-M	0 / 2098	-18.2 -18.2 0.39 (1)	10.00			
					M-L	0 / 2098	-18.2 -18.2 0.39 (1)	10.00			
					L-K	0 / 1335	-18.2 -18.2 0.30 (1)	10.00			
					K-J	0 / 0	-18.2 -18.2 0.15 (4)	10.00			
					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				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= 0.87 (N) (INPUT = 0.90) JSI METAL= 0.57 (M) (INPUT = 1.00)						



READ ALL NOTES ON THIS PAGE AND ON ENGINEERING NOTE PAGE ENP-1. THIS NOTE PAGE IS AN INTEGRAL PART OF THIS DRAWING AS IT CONTAINS SPECIFICATIONS AND CRITERIA USED IN THE DESIGN OF THIS COMPONENT.





LUMBER N. L. G. A. RULES CHORDS SIZE LUMBER DESCR.					DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER BEARINGS					DESIGN CRITERIA				
A - D	2x4	DRY	No.2	SPF	FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT	REQRD		SPECIFIED LOADS:		
D - F	2x4	DRY	No.2	SPF	JT	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX	TOP CH. LL = 23.3 PSF	
F - I	2x4	DRY	No.2	SPF	O	1493	0	1493	0	0	5-8	5-8	DL = 3.0 PSF	
O - B	2x4	DRY	No.2	SPF	J	1493	0	1493	0	0	5-8	5-8	BOT CH. LL = 0.0 PSF	
J - H	2x4	DRY	No.2	SPF									DL = 7.3 PSF	
O - L	2x4	DRY	No.2	SPF									TOTAL LOAD = 33.6 PSF	
L - J	2x4	DRY	No.2	SPF										
ALL WEBS 2x3 DRY No.2 EXCEPT													SPACING = 24.0 IN. C/C	
DRY: SEASONED LUMBER.													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 27.2 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 23.3 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 (0.19")	
													CSI: TC=0.52/1.00 (D-E:1) , BC=0.42/1.00 (N-O:1) , WB=0.82/1.00 (C-O:1) , SSI=0.25/1.00 (D-E:1)	
													DOL LUMBER=1.00 NAIL=1.00 LS BEND=1.10 COMP=1.10 SHEAR=1.10 TENS= 1.10	
													COMPANION LIVE LOAD FACTOR = 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= 0.90 (F) (INPUT = 0.90) JSI METAL= 0.62 (C) (INPUT = 1.00)	

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	5.0	1.75	2.25
D	TTWW-m	MT20	5.0	6.0	2.50	2.00
E	TMW+w	MT20	2.0	4.0		
F	TTWW-m	MT20	5.0	6.0	2.50	2.00
G	TMWW-t	MT20	4.0	5.0	1.75	2.25
H	TMV+p	MT20	2.0	4.0		
J	BMVW1-t	MT20	4.0	5.0	1.75	1.75
K	BMWW-t	MT20	3.0	4.0		
L	BS-t	MT20	3.0	6.0		
M	BMWW-t	MT20	3.0	8.0		
N	BMWW-t	MT20	3.0	4.0		
O	BMVW1-t	MT20	4.0	5.0	1.75	1.75

CHORDS					WEBS				
MEMB.		MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX LC1 CSI (LC)	MAX. UNBRAC LENGTH	MEMB.		MAX. FACTORED FORCE (LBS)	MAX LC1 CSI (LC)
FR-TO			FROM	TO		FR-TO			
A-B	0 / 22	-77.4	-77.4	0.09 (1)	10.00	C-N	-27 / 60	0.02 (4)	
B-C	0 / 14	-77.4	-77.4	0.17 (1)	10.00	N-D	0 / 174	0.05 (4)	
C-D	-1914 / 0	-77.4	-77.4	0.18 (1)	4.72	D-M	0 / 607	0.14 (1)	
D-E	-2191 / 0	-77.4	-77.4	0.52 (1)	4.07	M-E	-625 / 0	0.24 (1)	
E-F	-2191 / 0	-77.4	-77.4	0.52 (1)	4.07	M-F	0 / 608	0.14 (1)	
F-G	-1913 / 0	-77.4	-77.4	0.18 (1)	4.72	K-F	0 / 174	0.05 (4)	
G-H	0 / 14	-77.4	-77.4	0.17 (1)	10.00	K-G	-26 / 60	0.02 (4)	
H-I	0 / 22	-77.4	-77.4	0.09 (1)	10.00	O-C	-2103 / 0	0.82 (1)	
O-B	-223 / 0	0.0	0.0	0.02 (1)	7.81	G-J	-2102 / 0	0.82 (1)	
J-H	-223 / 0	0.0	0.0	0.02 (1)	7.81				
O-N	0 / 1720	-18.2	-18.2	0.42 (1)	10.00				
N-M	0 / 1702	-18.2	-18.2	0.42 (1)	10.00				
M-L	0 / 1701	-18.2	-18.2	0.42 (1)	10.00				
L-K	0 / 1701	-18.2	-18.2	0.42 (1)	10.00				
K-J	0 / 1719	-18.2	-18.2	0.42 (1)	10.00				



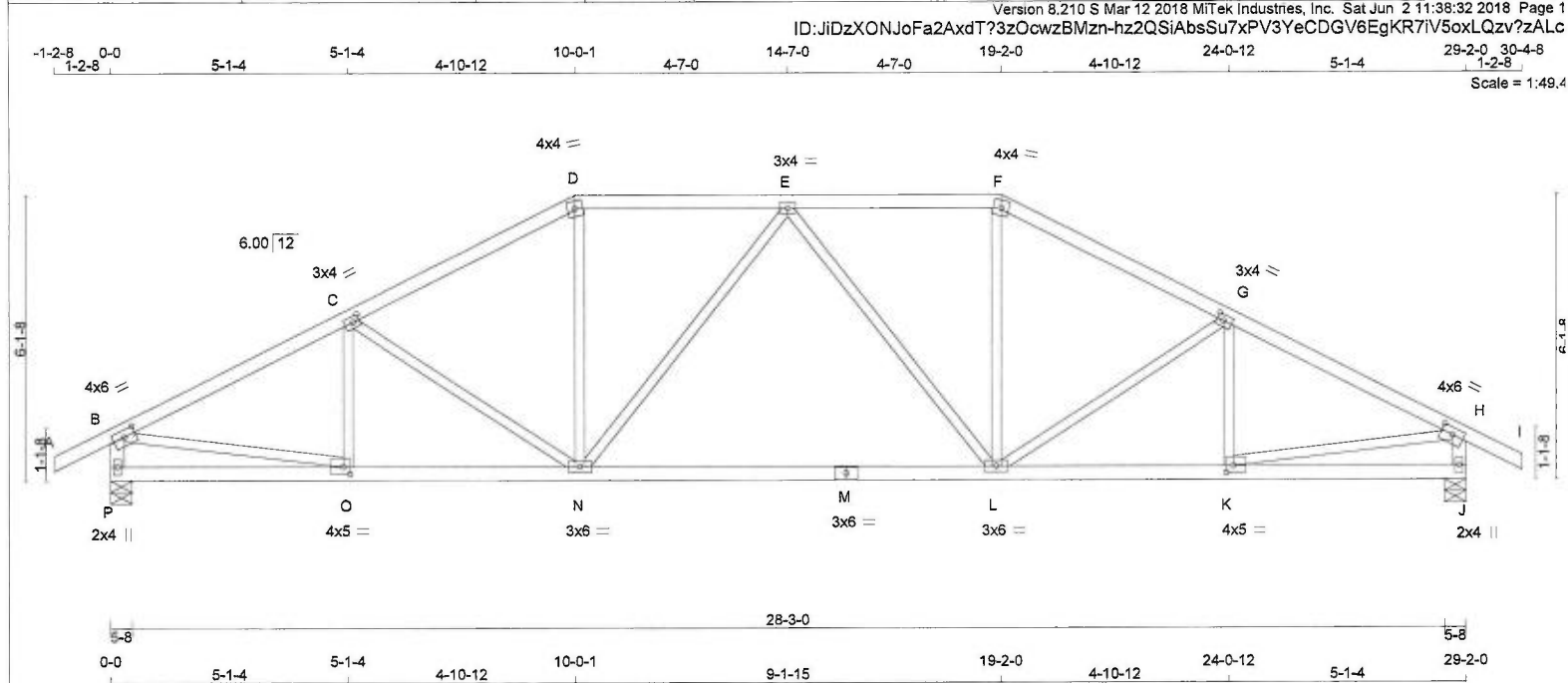
READ ALL NOTES ON THIS PAGE AND ON ENGINEERING NOTE PAGE ENP-1. THIS NOTE PAGE IS AN INTEGRAL PART OF THIS DRAWING AS IT CONTAINS SPECIFICATIONS AND CRITERIA USED IN THE DESIGN OF THIS COMPONENT.





READ ALL NOTES ON THIS PAGE AND ON ENGINEERING NOTE PAGE ENP-1. THIS NOTE PAGE IS AN INTEGRAL PART OF THIS DRAWING AS IT CONTAINS SPECIFICATIONS AND CRITERIA USED IN THE DESIGN OF THIS COMPONENT.





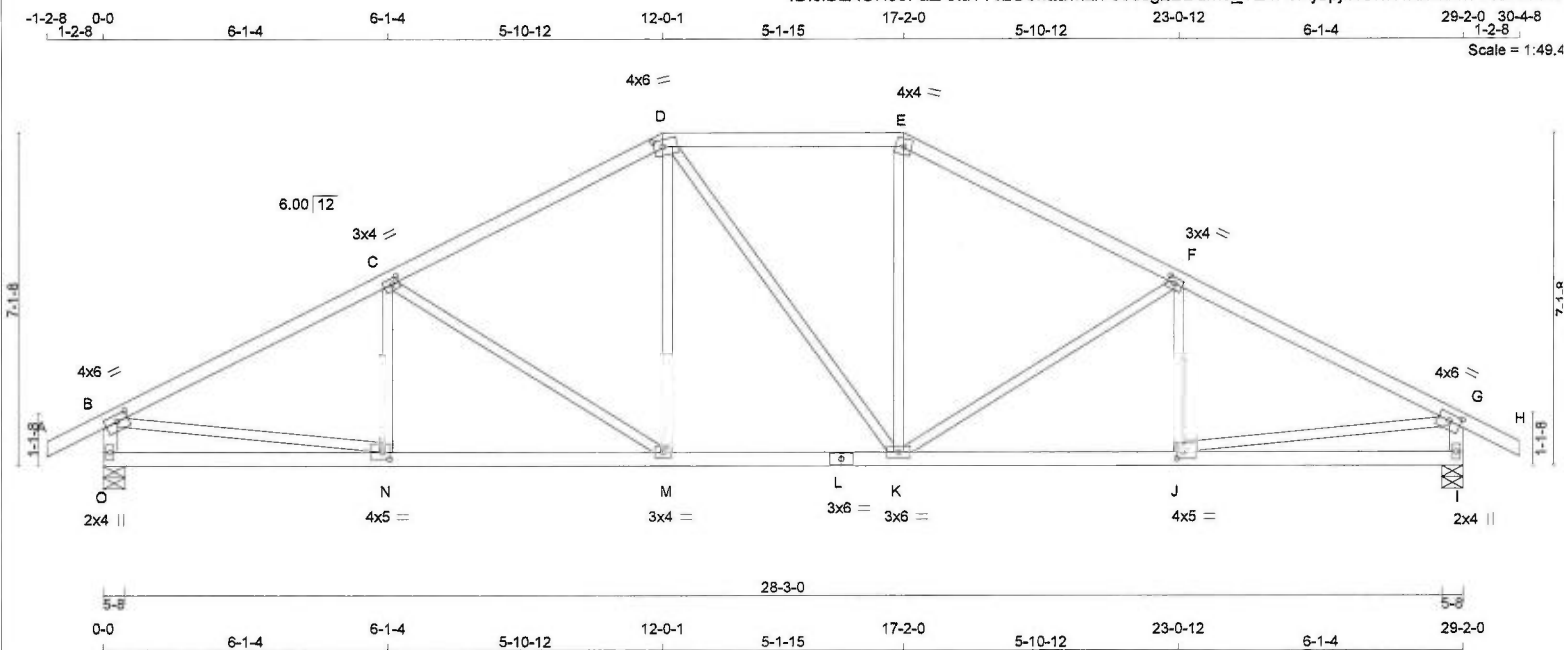
LUMBER				DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER				DESIGN CRITERIA			
N. L. G. A. RULES				BEARINGS				SPECIFIED LOADS:			
CHORDS	SIZE	LUMBER	DESCR.	FACTORED	MAXIMUM FACTORED	INPUT	REQRD	TOP CH.	LL = 23.3	PSF	
A - D	2x4	DRY	No.2	GROSS REACTION	GROSS REACTION	BRG	BRG	DL = 3.0	PSF		
D - F	2x4	DRY	No.2	JT VERT	DOWN	HORZ	UPLIFT	BOT CH.	LL = 0.0	PSF	
F - I	2x4	DRY	No.2	P 1493	0	1493	0	DL = 7.3	PSF		
P - B	2x4	DRY	No.2	J 1493	0	1493	0	TOTAL LOAD = 33.6	PSF		
J - H	2x4	DRY	No.2								
P - M	2x4	DRY	No.2								
M - J	2x4	DRY	No.2								
ALL WEBS	2x3	DRY	No.2	UNFACTORED REACTIONS				SPACING = 24.0	IN. C/C		
EXCEPT				1ST LCASE	MAX./MIN. COMPONENT REACTIONS			LOADING IN FLAT SECTION BASED ON A			
				JT COMBINED	SNOW	LIVE	PERM.LIVE	SLOPE OF 2.00/12 MINIMUM			
				P 1047	739 / 0	0 / 0	0 / 0	THIS TRUSS IS DESIGNED FOR RESIDENTIAL			
				J 1047	739 / 0	0 / 0	0 / 0	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 27.2 P.S.F. G.S.L. PLUS 8.4 P.S.F.			
								RAIN LOAD) EQUALS 23.3 P.S.F. SPECIFIED			
								ROOF LIVE LOAD			
								ALLOWABLE DEFL.(LL) = L/360 (0.97")			
								CALCULATED VERT. DEFL.(LL) = L/ 999 (0.09")			
								ALLOWABLE DEFL.(TL) = L/360 (0.97")			
								CALCULATED VERT. DEFL.(TL) = L/ 999 (0.25")			
								CSI: TC=0.30/1.00 (B-C:1), BC=0.42/1.00 (N-O:1),			
								WB=0.41/1.00 (B-O:1), SSI=0.17/1.00 (D-E:1)			
								DOL LUMBER=1.00 NAIL=1.00 LS BEND=1.10			
								COMP=1.10 SHEAR=1.10 TENS= 1.10			
								COMPANION LIVE LOAD FACTOR = 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 (B) (INPUT = 0.90)			
								JSI METAL= 0.60 (M) (INPUT = 1.00)			

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	3.0	4.0	1.50	1.75
D	TTW-m	MT20	4.0	4.0		
E	TMVW-t	MT20	3.0	4.0		
F	TTW-m	MT20	4.0	4.0		
G	TMVW-t	MT20	3.0	4.0	1.50	1.75
H	TMVW-t	MT20	4.0	6.0	1.75	3.00
J	BMV1+p	MT20	2.0	4.0		
K	BMVW-t	MT20	4.0	5.0	1.75	1.75
L	BMVW-t	MT20	3.0	6.0		
M	BS-t	MT20	3.0	6.0		
N	BMVW-t	MT20	3.0	6.0		
O	BMVW-t	MT20	4.0	5.0	1.75	1.75
P	BMV1+p	MT20	2.0	4.0		

LOADING				CHORDS				WEBS			
TOTAL LOAD CASES: (4)				MAX. FACTORED				MAX. FACTORED			
				MEMB. FORCE (LBS)				MEMB. FORCE (LBS)			
				VERT. LOAD LC1 MAX				MAX. FACTORED			
				(PLF) CSI (LC)				UNBRAC LENGTH FR-TO			
				FROM TO				FR-TO			



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

PLATES (table is in inches)					
JT	TYPE	PLATES	W	LEN	Y X
B	TMVV-t	MT20	4.0	6.0	1.75 3.00
C	TMVV-t	MT20	3.0	4.0	1.50 1.75
D	TTWV-m	MT20	4.0	6.0	1.75 2.25
E	TTW-m	MT20	4.0	4.0	
F	TMVV-t	MT20	3.0	4.0	1.50 1.75
G	TMVV-t	MT20	4.0	6.0	1.75 3.00
I	BMV1+p	MT20	2.0	4.0	
J	BMVV-t	MT20	4.0	5.0	1.75 1.75
K	BMVV-t	MT20	3.0	6.0	
L	BS-t	MT20	3.0	6.0	
M	BMVV-t	MT20	3.0	4.0	
N	BMVV-t	MT20	4.0	5.0	1.75 1.75
O	BMV1+p	MT20	2.0	4.0	

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

BEARINGS			
FACTORED		MAXIMUM FACTORED	
GROSS REACTION		GROSS REACTION	
JT	VERT	DOWN	UP
O	1493	0	0
I	1493	0	0

UNFACTORED REACTIONS							
JT	1ST LCASE	2ND LCASE	3RD LCASE	4TH LCASE	5TH LCASE	6TH LCASE	7TH LCASE
O	1047	739 / 0	0 / 0	0 / 0	0 / 0	0 / 0	0 / 0
I	1047	739 / 0	0 / 0	0 / 0	0 / 0	0 / 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 = 4.33 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

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

LOADING			
TOTAL LOAD CASES: (4)			
CHORDS		WEBS	
MEMB.	MAX. FACTORED FORCE (LBS)	MEMB.	MAX. FACTORED FORCE (LBS)
FR-TO	FROM TO	FR-TO	FROM TO
A-B	0 / 22	N-C	-125 / 67
B-C	-2031 / 0	C-M	-469 / 0
C-D	-1640 / 0	M-D	0 / 351
D-E	-1450 / 0	D-K	0 / 0
E-F	-1641 / 0	K-E	0 / 352
F-G	-2030 / 0	K-F	-467 / 0
G-H	0 / 22	J-F	-126 / 67
O-B	-1446 / 0	B-N	0 / 1854
I-G	-1445 / 0	J-G	0 / 1853
O-N	0 / 0		
N-M	0 / 1838		
M-L	0 / 1449		
L-K	0 / 1449		
K-J	0 / 1837		
J-I	0 / 0		

DESIGN CRITERIA

SPECIFIED LOADS:
TOP CH. LL = 23.3 PSF
DL = 3.0 PSF
BOT CH. LL = 0.0 PSF
DL = 7.3 PSF
TOTAL LOAD = 33.6 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 27.2 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 23.3 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = L/360 (0.97")
CALCULATED VERT. DEFL.(LL) = L/999 (0.09")
ALLOWABLE DEFL.(TL) = L/360 (0.97")
CALCULATED VERT. DEFL.(TL) = L/999 (0.16")

CSI: TC=0.44/1.00 (B-C:1), BC=0.37/1.00 (M-N:1), WB=0.46/1.00 (C-M:1), SSI=0.20/1.00 (B-C:1)

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

COMPANION LIVE LOAD FACTOR = 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

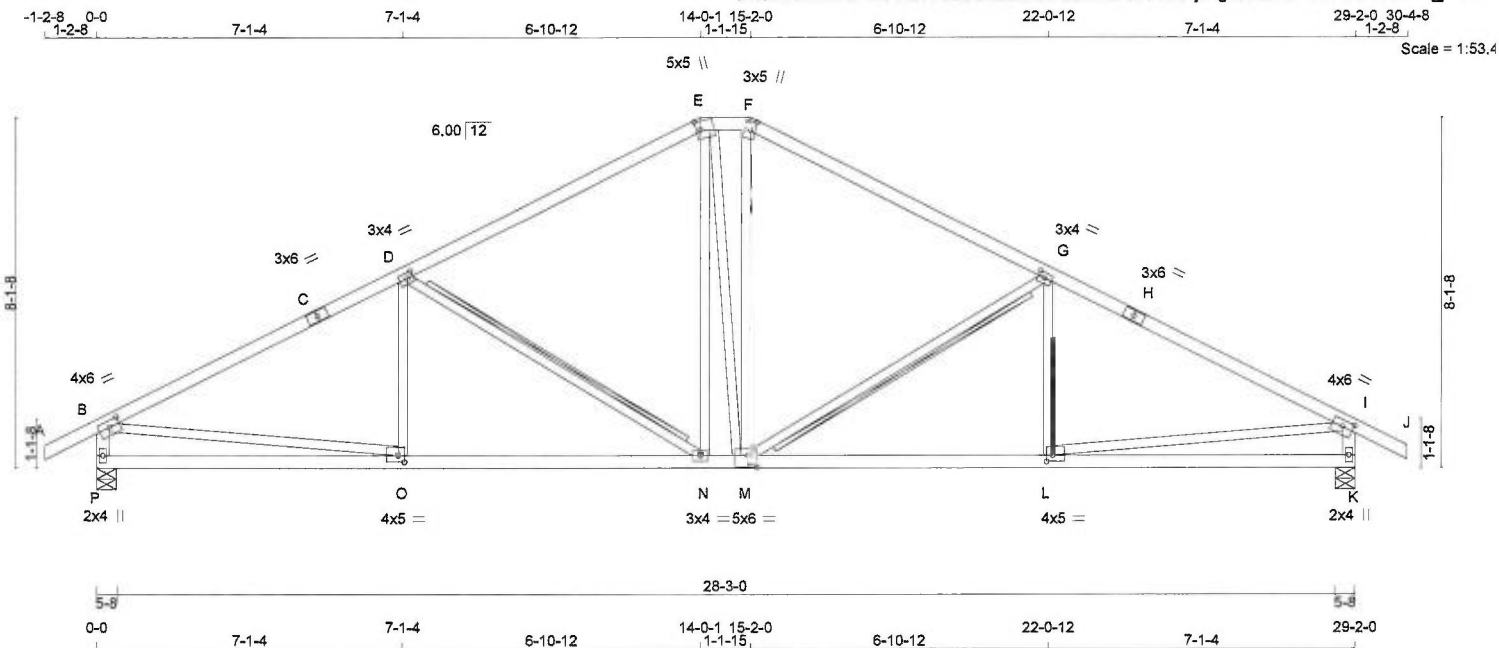
PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.90 (B) (INPUT = 0.90)
JSI METAL= 0.55 (N) (INPUT = 1.00)



READ ALL NOTES ON THIS PAGE AND ON ENGINEERING NOTE PAGE ENP-1. THIS NOTE PAGE IS AN INTEGRAL PART OF THIS DRAWING AS IT CONTAINS SPECIFICATIONS AND CRITERIA USED IN THE DESIGN OF THIS COMPONENT.





TOTAL WEIGHT = 124 lb

N. L. G. A. RULES			LUMBER
CHORDS	SIZE		
A - C	2x4	DRY	No.2
C - E	2x4	DRY	No.2
E - F	2x4	DRY	No.2
F - H	2x4	DRY	No.2
H - 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 EXCEPT	2x3	DRY	No.2
--------------------	-----	-----	------

DRY: SEASONED LUMBER.

JT	TYPE	PLATES	W	LEN	Y	X
B	TMWw-t	MT20	4.0	6.0	1.75	3.00
C	TS-t	MT20	3.0	6.0		
D	BTMWw-t	MT20	3.0	4.0	1.50	1.75
E	TTWw+m	MT20	5.0	5.0	2.50	1.25
F	TTw+m	MT20	3.0	5.0	2.50	1.25
G	BTMWw-t	MT20	3.0	4.0	1.50	1.75
H	TS-t	MT20	3.0	6.0		
I	TMWw-t	MT20	4.0	6.0	1.75	3.00
K	BMV1+p	MT20	2.0	4.0		
L	BTMWw-t	MT20	4.0	5.0	1.75	1.75
M	BSWwWw-I	MT20	5.0	6.0	3.25	2.50
N	BTMWw-t	MT20	3.0	4.0		
O	BTMWw-t	MT20	4.0	5.0	1.75	1.75
P	BMV1+p	MT20	2.0	4.0		

[illegible]

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	UPLIFT	IN-SX	IN-SX
P	1493	0	1493	0	0	5-8	5-8
K	1493	0	1493	0	0	5-8	5-8

UNFACTORED REACTIONS

1ST LCASE		MAX./MIN. COMPONENT REACTIONS					
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
P	1047	739 / 0	0 / 0	0 / 0	0 / 0	308 / 0	0 / 0
K	1047	739 / 0	0 / 0	0 / 0	0 / 0	308 / 0	0 / 0

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

BRACING

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

2x4 DRY SPF No.2 T-BRACE AT D-N, G-M

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

CHORDS					WEBS				
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	LO1 MAX CSI (LC)	MAX. UNBRAC LENGTH	MEMB.	MAX. FACTORED FORCE (LBS)	MAX CSI (LC)		
FR-TO		FROM	TO		FR-TO				
A-B	0 / 22	-77.4	-77.4	0.09 (1)	10.00	O-D	-65 / 103	0.04 (4)	
B-C	-2027 / 0	-77.4	-77.4	0.62 (1)	4.10	D-N	-638 / 0	0.33 (1)	
C-D	-2027 / 0	-77.4	-77.4	0.62 (1)	4.10	N-E	0 / 378	0.08 (1)	
D-E	-1481 / 0	-77.4	-77.4	0.55 (1)	4.72	E-M	0 / 27	0.01 (1)	
E-F	-1306 / 0	-77.4	-77.4	0.03 (1)	5.64	M-F	0 / 406	0.09 (1)	
F-G	-1484 / 0	-77.4	-77.4	0.55 (1)	4.72	M-G	-631 / 0	0.33 (1)	
G-H	-2024 / 0	-77.4	-77.4	0.62 (1)	4.10	L-G	-71 / 101	0.03 (4)	
H-I	-2024 / 0	-77.4	-77.4	0.62 (1)	4.10	B-O	0 / 1850	0.42 (1)	
I-J	0 / 22	-77.4	-77.4	0.09 (1)	10.00	L-I	0 / 1848	0.42 (1)	
P-B	-1440 / 0	0.0	0.0	0.15 (1)	6.81				
K-I	-1439 / 0	0.0	0.0	0.15 (1)	6.81				
P-O	0 / 0	-18.2	-18.2	0.22 (4)	10.00				
O-N	0 / 1838	-18.2	-18.2	0.41 (1)	10.00				
N-M	0 / 1302	-18.2	-18.2	0.31 (1)	10.00				
M-L	0 / 1836	-18.2	-18.2	0.40 (1)	10.00				
L-K	0 / 0	-18.2	-18.2	0.22 (4)	10.00				

DESIGN CRITERIA

SPECIFIED LOADS:				
TOP CH.	LL	=	23.3	PSF
	DL	=	3.0	PSF
BOT CH.	LL	=	0.0	PSF
	DL	=	7.3	PSF
TOTAL LOAD		=	33.6	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 27.2 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 23.3 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL)= L/360 (0.97")
CALCULATED VERT. DEFL.(LL) = L/999 (0.09")
ALLOWABLE DEFL.(TL)= L/360 (0.97")
CALCULATED VERT. DEFL.(TL) = L/999 (0.19")

CSI: TC=0.62/1.00 (B-D:1), BC=0.41/1.00 (N-O:1),
WB=0.42/1.00 (B-O:1), SSI=0.24/1.00 (B-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 PLACEMENT TOL. = 0.250 inches

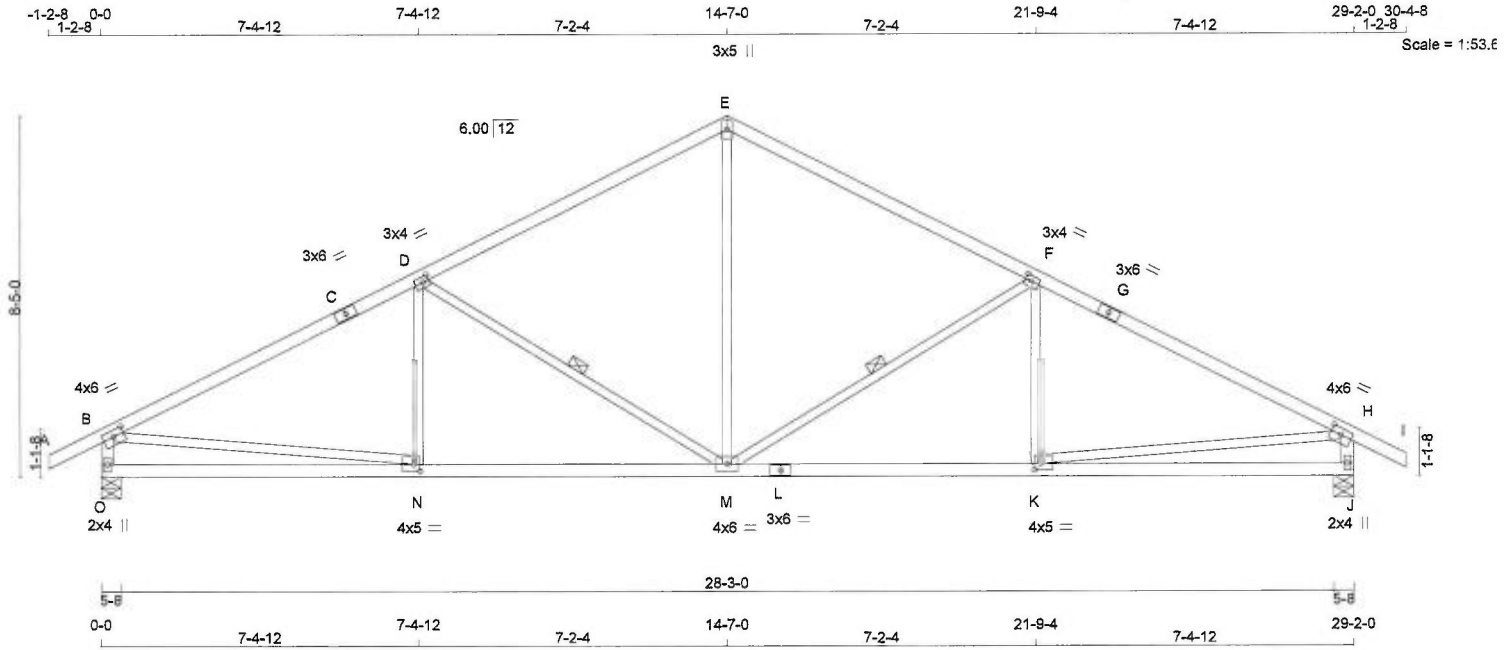
PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.90 (B) (INPUT = 0.90)
JSI METAL= 0.55 (O) (INPUT = 1.00)



**READ ALL NOTES ON THIS PAGE AND ON
ENGINEERING NOTE PAGE ENP-1. THIS
NOTE PAGE IS AN INTEGRAL PART OF
THIS DRAWING AS IT CONTAINS
SPECIFICATIONS AND CRITERIA USED IN
THE DESIGN OF THIS COMPONENT.**





TOTAL WEIGHT = 4 X 113 = 454 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
E - G 2x4 DRY No.2	SPF
G - 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	

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT TYPE	PLATES	W	LEN	Y	X
B TMVV-t	MT20	4.0	6.0	1.75	3.00
C TS-t	MT20	3.0	6.0		
D TMWW-t	MT20	3.0	4.0	1.50	1.75
E TTW+p	MT20	3.0	5.0		
F TMWW-t	MT20	3.0	4.0	1.50	1.75
G TS-t	MT20	3.0	6.0		
H TMVV-t	MT20	4.0	6.0	1.75	3.00
J BMV1+p	MT20	2.0	4.0		
K BMWW-t	MT20	4.0	5.0	1.75	1.75
L BS-t	MT20	3.0	6.0		
M BMWW-t	MT20	4.0	6.0		
N BMWW-t	MT20	4.0	5.0	1.75	1.75
O 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	REQRD BRG IN-SX
	VERT	HORZ	DOWN	HORZ		
O	1493	0	1493	0	5-8	5-8
J	1493	0	1493	0	5-8	5-8

UNFACTORED REACTIONS

JT	1ST LCASE COMBINED		MAX./MIN. COMPONENT REACTIONS		WIND	DEAD	SOIL
	SNOW	LIVE	PERM.	LIVE			
O	1047	739 / 0	0 / 0	0 / 0	0 / 0	308 / 0	0 / 0
J	1047	739 / 0	0 / 0	0 / 0	0 / 0	308 / 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 = 4.01 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR RIGID CEILING DIRECTLY APPLIED.

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

1 - 1x4 LATERAL BRACE(S) AT 1/2 LENGTH OF D-M, F-M. DBS = 20-0-0. CBF = 84 LBS.

DBS = DIAGONAL BRACE SPACING (MAX). CBF = CUMULATIVE BRACING FORCE (PER BRACE). FASTEN LATERAL BRACE(S) USING (0.122"x3") SPIRAL NAILS: 1 NAIL FOR 2x3 BRACE(S), 2 FOR 1x4, 2x4, 2x5, 3 FOR 2x6, 4 FOR 2x8, 5 FOR 2x10, AND 6 FOR 2x12.

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)	LC1 MAX. UNBRACED LENGTH (LC)	MEMB.	WEBS MAX. FACTORED FORCE (LBS)	MAX. UNBRACED LENGTH (LC)
FR-TO		FROM TO		FR-TO		
A-B	0 / 22	-77.4 -77.4	0.09 (1)	10.00	N-D	-56 / 108 0.04 (4)
B-C	-2020 / 0	-77.4 -77.4	0.68 (1)	4.01	D-M	-674 / 0 0.33 (1)
C-D	-2020 / 0	-77.4 -77.4	0.68 (1)	4.01	M-E	0 / 845 0.19 (1)
D-E	-1443 / 0	-77.4 -77.4	0.60 (1)	4.69	M-F	-673 / 0 0.33 (1)
E-F	-1443 / 0	-77.4 -77.4	0.59 (1)	4.69	K-F	-57 / 108 0.04 (4)
F-G	-2019 / 0	-77.4 -77.4	0.68 (1)	4.02	B-N	0 / 1845 0.42 (1)
G-H	-2019 / 0	-77.4 -77.4	0.68 (1)	4.02	K-H	0 / 1844 0.41 (1)
H-I	0 / 22	-77.4 -77.4	0.09 (1)	10.00		
O-B	-1437 / 0	0.0 0.0	0.14 (1)	6.81		
J-H	-1437 / 0	0.0 0.0	0.14 (1)	6.81		
O-N	0 / 0	-18.2 -18.2	0.23 (4)	10.00		
N-M	0 / 1834	-18.2 -18.2	0.41 (1)	10.00		
M-L	0 / 1833	-18.2 -18.2	0.41 (1)	10.00		
L-K	0 / 1833	-18.2 -18.2	0.41 (1)	10.00		
K-J	0 / 0	-18.2 -18.2	0.23 (4)	10.00		

DESIGN CRITERIA

SPECIFIED LOADS:
TOP CH. LL = 23.3 PSF
DL = 3.0 PSF
BOT CH. LL = 0.0 PSF
DL = 7.3 PSF
TOTAL LOAD = 33.6 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 27.2 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 23.3 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL)= L/360 (0.97")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.09")
ALLOWABLE DEFL.(TL)= L/360 (0.97")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.19")

CSI: TC=0.68/1.00 (B-D:1), BC=0.41/1.00 (M-N:1), WB=0.42/1.00 (B-N:1), SSI=0.25/1.00 (B-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)
MT20	618	354	1667 822 2284 1656

PLATE PLACEMENT TOL. = 0.250 inches

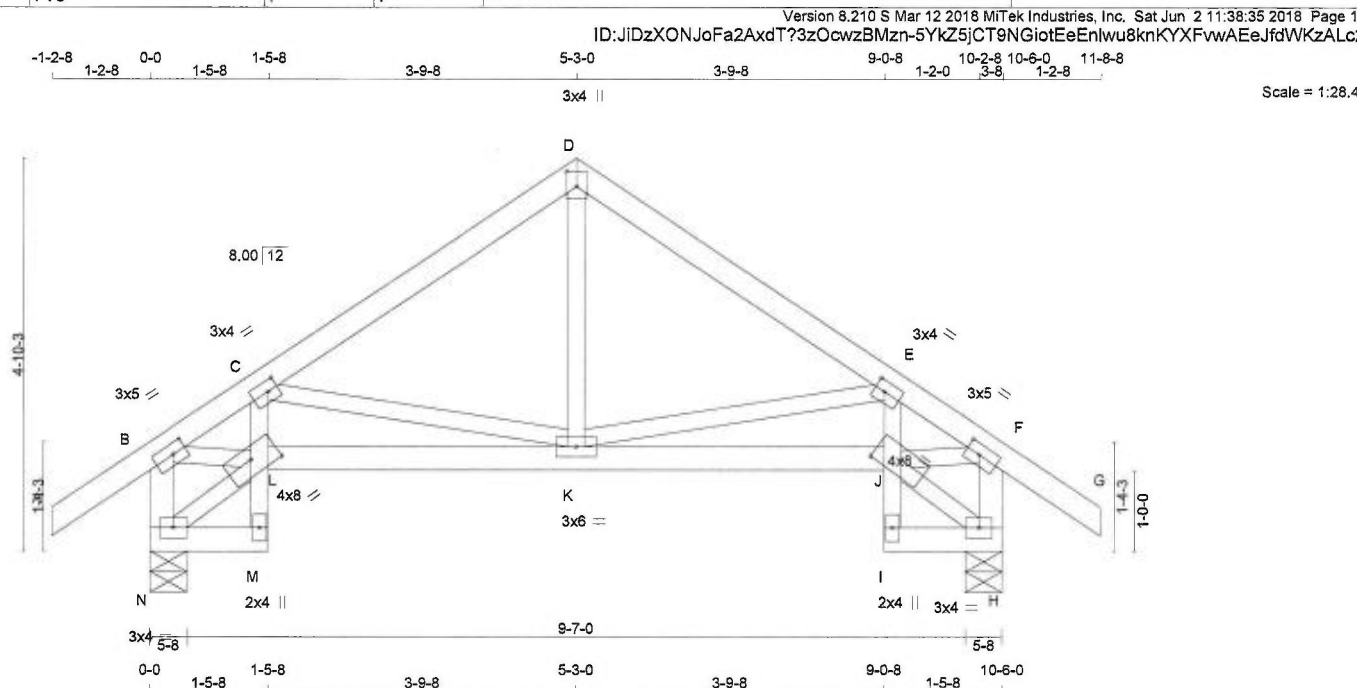
PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.89 (B) (INPUT = 0.90)
JSI METAL= 0.55 (N) (INPUT = 1.00)



READ ALL NOTES ON THIS PAGE AND ON ENGINEERING NOTE PAGE ENP-1. THIS NOTE PAGE IS AN INTEGRAL PART OF THIS DRAWING AS IT CONTAINS SPECIFICATIONS AND CRITERIA USED IN THE DESIGN OF THIS COMPONENT.





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

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

DRY: SEASONED LUMBER.

PLATES (table in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMVV-t	MT20	3.0	5.0	1.50	2.00
C	TMVV-t	MT20	3.0	4.0	1.50	1.50
D	TMVV-t	MT20	3.0	4.0	2.25	1.50
E	TMVV-t	MT20	3.0	4.0	1.50	1.50
F	TMVV-t	MT20	3.0	5.0	1.50	2.00
H	BMVV-t	MT20	3.0	4.0		
I	BMVV-t	MT20	2.0	4.0		
J	BMVV-t	MT20	4.0	8.0	4.00	2.25
K	BMVV-t	MT20	3.0	6.0		
L	BMVV-t	MT20	4.0	8.0	4.00	2.25
M	BMVV-t	MT20	2.0	4.0		
N	BMVV-t	MT20	3.0	4.0		

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

BEARINGS

JT	FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG IN-SX	REQRD BRG IN-SX
	VERT	HORZ	DOWN	HORZ		
N	602	0	602	0	5-8	5-8
H	602	0	602	0	5-8	5-8

UNFACTORED REACTIONS

JT	1ST LCASE		MAX/MIN COMPONENT REACTIONS		WIND	DEAD	SOIL
	COMBINED	SNOW	LIVE	PERM. LIVE			
N	420	305 / 0	0 / 0	0 / 0	0 / 0	116 / 0	0 / 0
H	420	305 / 0	0 / 0	0 / 0	0 / 0	116 / 0	0 / 0

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

BRACING
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 6.25 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 7.81 FT OR RIGID CEILING DIRECTLY APPLIED.

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

LOADING
TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. FACTORED LC1 MAX (CSI (LC))	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. FACTORED LC1 MAX (CSI (LC))	UNBRACED LENGTH
FR-TO		FROM TO		FR-TO			
A-B	0 / 28	-77.4	-77.4 0.09 (1)	10.00	K-D	0 / 227	0.05 (1)
B-C	-713 / 0	-77.4	-77.4 0.09 (1)	6.25	K-E	-254 / 0	0.07 (1)
C-D	-450 / 0	-77.4	-77.4 0.14 (1)	6.25	C-K	-254 / 0	0.07 (1)
D-E	-450 / 0	-77.4	-77.4 0.14 (1)	6.25	N-L	-15 / 0	0.00 (1)
E-F	-713 / 0	-77.4	-77.4 0.09 (1)	6.25	J-H	-15 / 0	0.00 (1)
F-G	0 / 28	-77.4	-77.4 0.09 (1)	10.00	B-L	0 / 601	0.14 (1)
N-B	-581 / 0	0.0	0.0 0.06 (1)	7.81	J-F	0 / 601	0.14 (1)
H-F	-581 / 0	0.0	0.0 0.06 (1)	7.81			
N-M	0 / 12	-18.2	-18.2 0.01 (4)	10.00			
M-L	0 / 14	0.0	0.0 0.03 (1)	10.00			
L-C	-22 / 26	0.0	0.0 0.02 (1)	7.81			
L-K	0 / 612	-18.3	-18.3 0.14 (1)	10.00			
K-J	0 / 612	-18.3	-18.3 0.14 (1)	10.00			
I-J	0 / 14	0.0	0.0 0.03 (1)	10.00			
J-E	-22 / 26	0.0	0.0 0.02 (1)	7.81			
I-H	0 / 12	-18.2	-18.2 0.01 (4)	10.00			

DESIGN CRITERIA

SPECIFIED LOADS:
TOP CH. LL = 23.3 PSF
DL = 3.0 PSF
BOT CH. LL = 0.0 PSF
DL = 7.3 PSF
TOTAL LOAD = 33.6 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 27.2 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 23.3 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = L/360 (0.35")
CALCULATED VERT. DEFL.(LL) = L/999 (0.01")
ALLOWABLE DEFL.(TL) = L/360 (0.35")
CALCULATED VERT. DEFL.(TL) = L/999 (0.02")

CSI: TC=0.14/1.00 (D-E:1), BC=0.14/1.00 (K-L:1), WB=0.14/1.00 (B-L:1), SSI=0.11/1.00 (D-E:1)

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

COMPANION LIVE LOAD FACTOR = 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

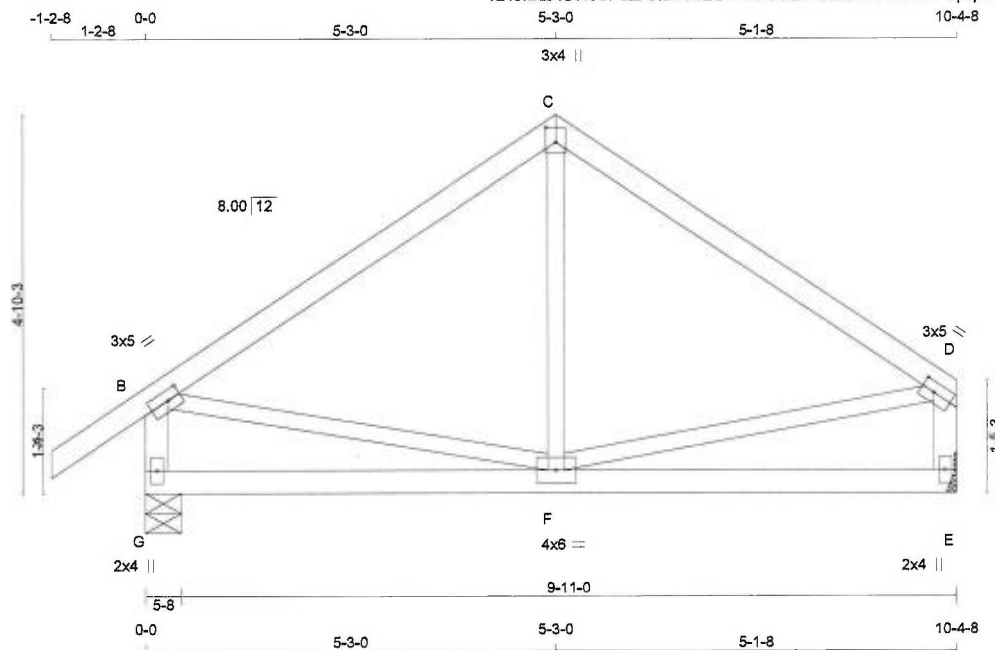
PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.86 (L) (INPUT = 0.90)
JSI METAL= 0.24 (F) (INPUT = 1.00)



READ ALL NOTES ON THIS PAGE AND ON ENGINEERING NOTE PAGE ENP-1. THIS NOTE PAGE IS AN INTEGRAL PART OF THIS DRAWING AS IT CONTAINS SPECIFICATIONS AND CRITERIA USED IN THE DESIGN OF THIS COMPONENT.





Scale = 1:29.5

TOTAL WEIGHT = 3 X 42 = 125 lb
[M][F]

LUMBER

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

ALL WEBS 2x3 DRY No.2
EXCEPT

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMVV-t	MT20	3.0	5.0	1.50	2.00
C	TTW+p	MT20	3.0	4.0	2.25	1.50
D	TMVV-t	MT20	3.0	5.0	1.50	2.00
E	BMV1+p	MT20	2.0	4.0		
F	BMVVV-t	MT20	4.0	6.0		
G	BMV1+p	MT20	2.0	4.0		

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

BEARINGS

JT	FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	REQRD BRG
	VERT	DOWN	HORZ	UPLIFT
G	596	0	0	5-8
E	496	0	0	5-8

A SUITABLE MECHANICAL CONNECTION IS REQUIRED AT JOINT E TO RESIST THE MAX FACTORED REACTIONS.

UNFACTORED REACTIONS

JT	1ST LCASE	MAX/MIN. COMPONENT REACTIONS	PERM. LIVE	WIND	DEAD	SOIL
	COMBINED	SNOW	LIVE			
G	416	302 / 0	0 / 0	0 / 0	115 / 0	0 / 0
E	348	242 / 0	0 / 0	0 / 0	107 / 0	0 / 0

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

BRACING

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

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS					WEBS				
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. LOAD LC1 (LC)	MAX. UNBRACED LENGTH FR-TO	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. LOAD LC1 (LC)	MAX. UNBRACED LENGTH FR-TO	
A-B	0 / 28	-77.4	-77.4	0.09 (1)	10.00	F-C	-6 / 90	0.03 (4)	
B-C	-356 / 0	-77.4	-77.4	0.27 (1)	6.25	B-F	0 / 302	0.07 (1)	
C-D	-356 / 0	-77.4	-77.4	0.26 (1)	6.25	F-D	0 / 303	0.07 (1)	
G-B	-559 / 0	0.0	0.0	0.06 (1)	7.81				
E-D	-460 / 0	0.0	0.0	0.05 (1)	7.81				
G-F	0 / 0	-18.2	-18.2	0.14 (4)	10.00				
F-E	0 / 0	-18.2	-18.2	0.14 (4)	10.00				

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH.	LL = 23.3	PSF
	DL = 3.0	PSF
BOT CH.	LL = 0.0	PSF
	DL = 7.3	PSF
TOTAL LOAD	= 33.6	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 27.2 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 23.3 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = L/360 (0.35")
CALCULATED VERT. DEFL.(LL) = L/999 (0.00")
ALLOWABLE DEFL.(TL) = L/360 (0.35")
CALCULATED VERT. DEFL.(TL) = L/999 (0.02")

CSI: TC=0.27/1.00 (B-C:1), BC=0.14/1.00 (F-G:4), WB=0.07/1.00 (D-F:1), SSI=0.13/1.00 (B-C:1)

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

COMPANION LIVE LOAD FACTOR = 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
MT20	618	354	1667
	822	2284	1656

PLATE PLACEMENT TOL. = 0.250 inches

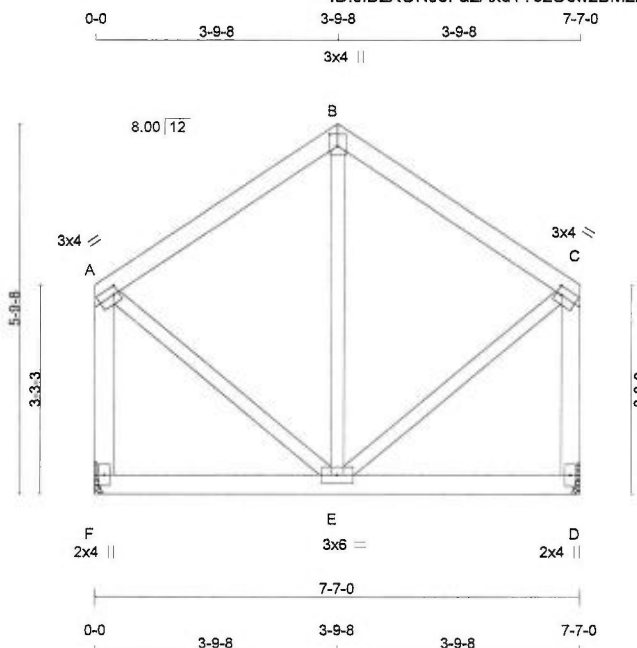
PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.51 (B) (INPUT = 0.90)
JSI METAL= 0.16 (B) (INPUT = 1.00)



READ ALL NOTES ON THIS PAGE AND ON ENGINEERING NOTE PAGE ENP-1. THIS NOTE PAGE IS AN INTEGRAL PART OF THIS DRAWING AS IT CONTAINS SPECIFICATIONS AND CRITERIA USED IN THE DESIGN OF THIS COMPONENT.





TOTAL WEIGHT = 37 lb
(M)F

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

ALL WEBS 2x3 DRY No.2 SPF

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
A	TMVW-t	MT20	3.0	4.0	1.50	1.00
B	TTW+p	MT20	3.0	4.0	2.25	1.50
C	TMVW-t	MT20	3.0	4.0	1.50	1.00
D	BMV1+p	MT20	2.0	4.0		
E	BMVWW-t	MT20	3.0	6.0		
F	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	JT	VERT	IN-SX		IN-SX	
F	363	D	363	0		MECHANICAL	
D	363	F	363	0		MECHANICAL	

A SUITABLE MECHANICAL CONNECTION IS REQUIRED AT JOINT F, D TO RESIST THE MAX FACTORED REACTIONS.

UNFACTORED REACTIONS

JT	1ST LCASE	MAX/MIN. COMPONENT REACTIONS					
JT	COMBINED	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
F	255	177 / 0	0 / 0	0 / 0	0 / 0	78 / 0	0 / 0
D	255	177 / 0	0 / 0	0 / 0	0 / 0	78 / 0	0 / 0

BRACING

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

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX LC1 (LC)	MEMB.	FORCE (LBS)	FACTORED MAX (LC)	
FR-TO		FROM TO		FR-TO			
A-B	-157 / 0	-77.4 -77.4	0.14 (1)	E-B	-119 / 27	0.06 (1)	
B-C	-157 / 0	-77.4 -77.4	0.14 (1)	A-E	0 / 166	0.04 (1)	
F-A	-336 / 0	0.0 0.0	0.06 (1)	E-C	0 / 166	0.04 (1)	
D-C	-336 / 0	0.0 0.0	0.06 (1)				
F-E	0 / 0	-18.2 -18.2	0.07 (4)				
E-D	0 / 0	-18.2 -18.2	0.07 (4)				

DESIGN CRITERIA

SPECIFIED LOADS:
TOP CH. LL = 23.3 PSF
DL = 3.0 PSF
BOT CH. LL = 0.0 PSF
DL = 7.3 PSF
TOTAL LOAD = 33.6 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 27.2 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 23.3 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL)= L/360 (0.25")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.00")
ALLOWABLE DEFL.(TL)= L/360 (0.25")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.01")

CSI: TC=0.14/1.00 (B-C:1), BC=0.07/1.00 (D-E:4), WB=0.06/1.00 (B-E:1), SSI=0.10/1.00 (B-C:1)

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

COMPANION LIVE LOAD FACTOR = 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.

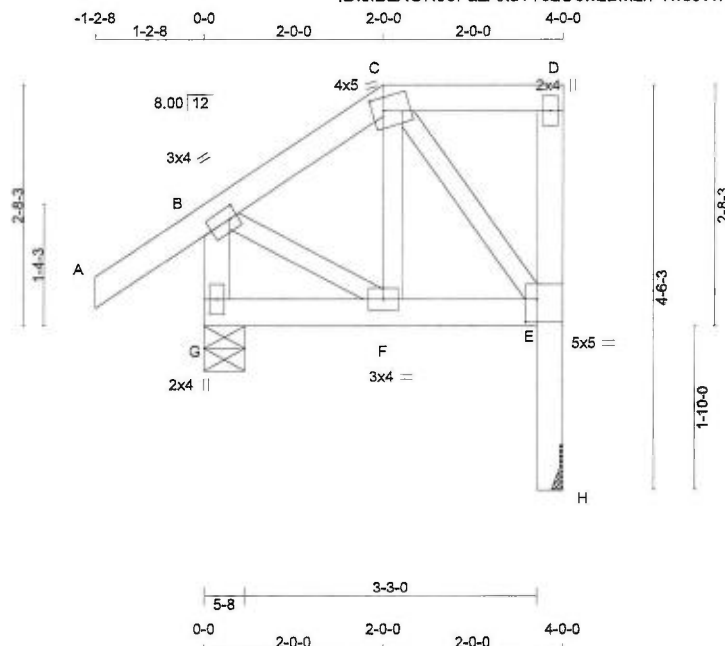
JSI GRIP= 0.53 (A) (INPUT = 0.90)
JSI METAL= 0.09 (C) (INPUT = 1.00)



READ ALL NOTES ON THIS PAGE AND ON ENGINEERING NOTE PAGE ENP-1. THIS NOTE PAGE IS AN INTEGRAL PART OF THIS DRAWING AS IT CONTAINS SPECIFICATIONS AND CRITERIA USED IN THE DESIGN OF THIS COMPONENT.



Scale = 1:25.7



LUMBER					DESCR.
N. L. G. A. RULES	CHORDS	SIZE	LUMBER		
A - C	2x4	DRY	No.2	SPF	
C - D	2x4	DRY	No.2	SPF	
H - D	2x4	DRY	No.2	SPF	
G - B	2x4	DRY	No.2	SPF	
G - E	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	3.0	4.0	1.50	1.00
C	TTVW-m	MT20	4.0	5.0	1.75	1.50
D	TMV+p	MT20	2.0	4.0		
E	BVMW-l	MT20	5.0	5.0	3.00	1.50
F	BMVW-t	MT20	3.0	4.0		
G	BMV1+p	MT20	2.0	4.0		

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

BEARINGS		FACTORED	MAXIMUM FACTORED	INPUT	REQD
JT	GROSS REACTION	GROSS REACTION	BRG	BRG	
	VERT	HORZ	DOWN	HORZ	UPLIFT
H	191	0	191	0	0
G	291	0	291	0	0

A SUITABLE MECHANICAL CONNECTION IS REQUIRED AT JOINT H TO RESIST THE MAX FACTORED REACTIONS.

UNFACTORED REACTIONS

JT	1ST LCASE	MAX/MIN. COMPONENT REACTIONS					
	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
H	134	93 / 0	0 / 0	0 / 0	0 / 0	41 / 0	0 / 0
G	202	153 / 0	0 / 0	0 / 0	0 / 0	49 / 0	0 / 0

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

BRACING

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

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. FACTORED HORZ. LOAD (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. FACTORED HORZ. LOAD (LC)	
FR-TO		FROM TO		FR-TO			
A-B	0 / 28	-77.4 -77.4	0.09 (1)	10.00	F-C	0 / 36	0.01 (4)
B-C	-101 / 0	-77.4 -77.4	0.05 (1)	6.25	C-E	-129 / 0	0.02 (1)
C-D	0 / 0	-77.4 -77.4	0.05 (1)	10.00	B-F	0 / 93	0.02 (1)
H-E	-191 / 0	0.0 0.0	0.02 (1)	7.81			
E-D	-77 / 0	0.0 0.0	0.01 (1)	7.81			
G-B	-274 / 0	0.0 0.0	0.03 (1)	7.81			
G-F	0 / 0	-18.2 -18.2	0.02 (4)	10.00			
F-E	0 / 83	-18.2 -18.2	0.02 (4)	10.00			

TOTAL WEIGHT = 2 X 22 = 45 lb [M]

DESIGN CRITERIA

SPECIFIED LOADS:
TOP CH. LL = 23.3 PSF
DL = 3.0 PSF
BOT CH. LL = 0.0 PSF
DL = 7.3 PSF
TOTAL LOAD = 33.6 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 27.2 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 23.3 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = $L/360$ (0.19")
CALCULATED VERT. DEFL.(LL) = $L/999$ (0.00")
ALLOWABLE DEFL.(TL) = $L/360$ (0.19")
CALCULATED VERT. DEFL.(TL) = $L/999$ (0.00")

CSI: TC=0.09/1.00 (A-B:1), BC=0.02/1.00 (E-F:4), WB=0.02/1.00 (C-E:1), SS=0.06/1.00 (A-B:1)

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

COMPANION LIVE LOAD FACTOR = 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

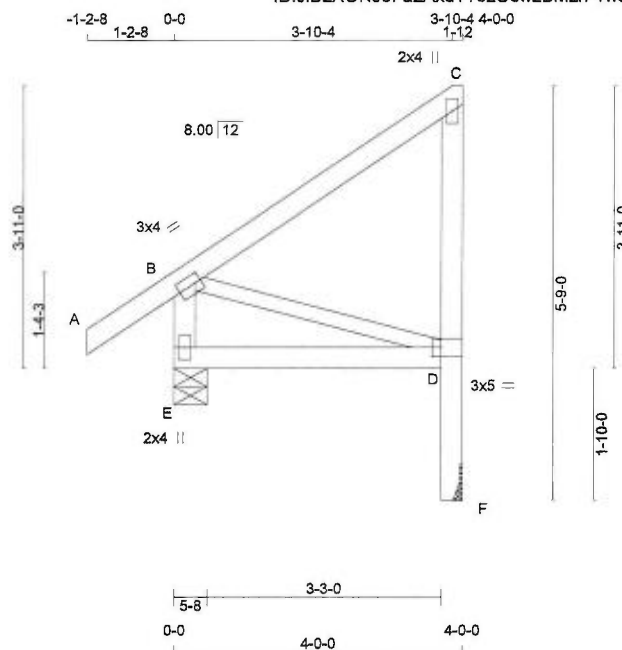
PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.30 (B) (INPUT = 0.90)
JSI METAL= 0.07 (B) (INPUT = 1.00)



READ ALL NOTES ON THIS PAGE AND ON ENGINEERING NOTE PAGE ENP-1. THIS NOTE PAGE IS AN INTEGRAL PART OF THIS DRAWING AS IT CONTAINS SPECIFICATIONS AND CRITERIA USED IN THE DESIGN OF THIS COMPONENT.





Scale: 3/8"=1

TOTAL WEIGHT = 22 lb [M]

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

PLATES (table is in inches)					
JT	TYPE	PLATES	W	LEN	Y X
B	TMVW-t	MT20	3.0	4.0	1.50 1.00
C	TMV+p	MT20	2.0	4.0	
D	BVMW-t	MT20	3.0	5.0	1.50 1.50
E	BMV1+p	MT20	2.0	4.0	

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

JT	FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG		REQRD BRG	
	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX	
F	191	0	191	0	0	MECHANICAL		
E	291	0	291	0	0	5-8	5-8	

A SUITABLE MECHANICAL CONNECTION IS REQUIRED AT JOINT F TO RESIST THE MAX FACTORED REACTIONS.

UNFACTORED REACTIONS

JT	1ST LCASE	MAX/MIN. COMPONENT REACTIONS						
	COMBINED	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL	
F	134	93 / 0	0 / 0	0 / 0	0 / 0	41 / 0	0 / 0	
E	202	153 / 0	0 / 0	0 / 0	0 / 0	49 / 0	0 / 0	

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

BRACING

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

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	LC1 MAX CSI (LC)	MAX. UNBRAC LENGTH	MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)
FR-TO		FROM	TO		FR-TO		
A-B	0 / 28	-77.4	-77.4	0.09 (1)	10.00	B-D	0 / 0
B-C	0 / 0	-77.4	-77.4	0.21 (1)	10.00		0.00 (1)
F-D	-191 / 0	0.0	0.0	0.02 (1)	7.81		
D-C	-155 / 0	0.0	0.0	0.04 (1)	7.81		
E-B	-254 / 0	0.0	0.0	0.03 (1)	7.81		
E-D	0 / 0	-18.2	-18.2	0.09 (4)	10.00		

DESIGN CRITERIA

SPECIFIED LOADS:
TOP CH. LL = 23.3 PSF
DL = 3.0 PSF
BOT CH. LL = 0.0 PSF
DL = 7.3 PSF
TOTAL LOAD = 33.6 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 27.2 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 23.3 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = L/360 (0.19")
CALCULATED VERT. DEFL.(LL) = L/999 (0.00")
ALLOWABLE DEFL.(TL) = L/360 (0.19")
CALCULATED VERT. DEFL.(TL) = L/999 (0.01")

CSI: TC=0.21/1.00 (B-C:1), BC=0.09/1.00 (D-E:4), WB=0.00/1.00 (B-D:1), SSI=0.10/1.00 (B-C:1)

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

COMPANION LIVE LOAD FACTOR = 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

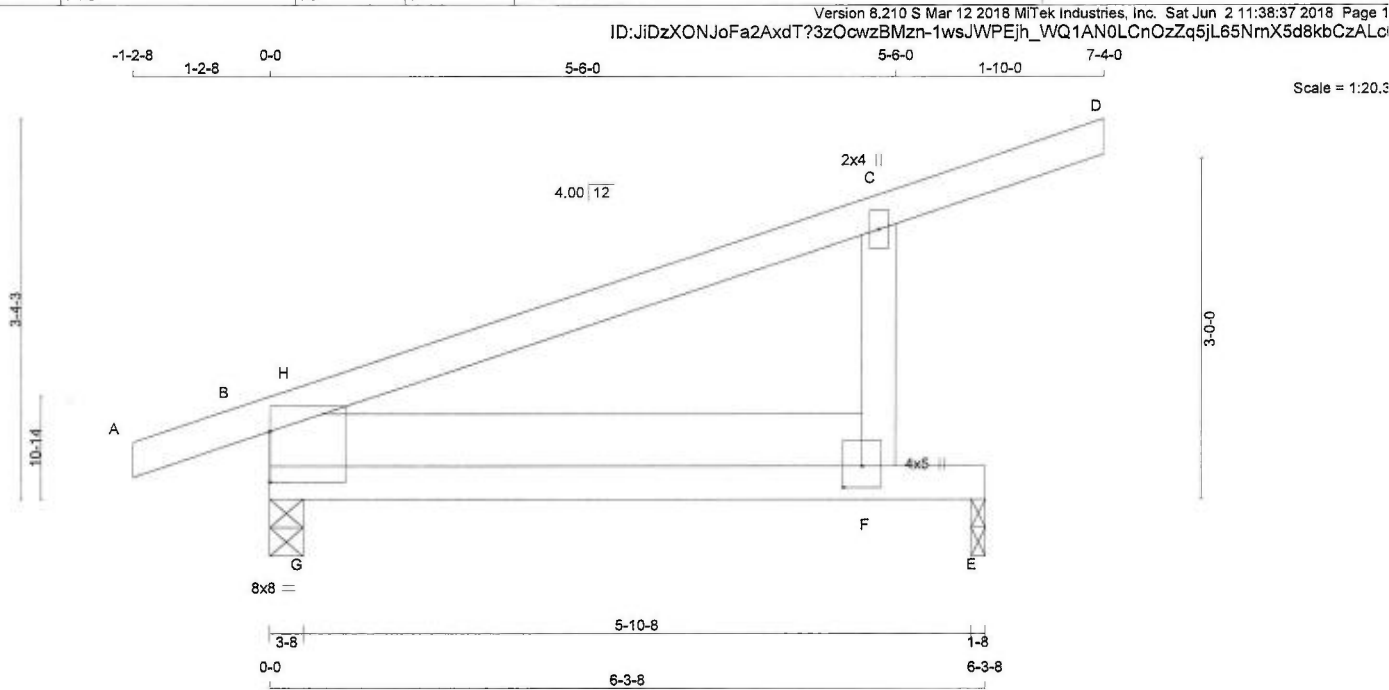
PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.23 (B) (INPUT = 0.90)
JSI METAL= 0.05 (B) (INPUT = 1.00)



READ ALL NOTES ON THIS PAGE AND ON ENGINEERING NOTE PAGE ENP-1. THIS NOTE PAGE IS AN INTEGRAL PART OF THIS DRAWING AS IT CONTAINS SPECIFICATIONS AND CRITERIA USED IN THE DESIGN OF THIS COMPONENT.





TOTAL WEIGHT = 10 X 29 = 293 lb [M]

LUMBER				DESCR.	
N. L. G. A. RULES	CHORDS	SIZE	LUMBER	SPF	SPF
A - D	2x4	DRY	No.2	SPF	SPF
F - C	2x4	DRY	No.2	SPF	SPF
B - E	2x4	DRY	No.2	SPF	SPF
REINFORCING MEMBERS				DESCR.	
HW1	2x6	DRY	No.2	SPF	SPF

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMBMW1-I	MT20	8.0	8.0	5.25	
C	TMV+p	MT20	2.0	4.0		
F	BMVV+p	MT20	4.0	5.0	2.25	2.00

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
B	412	0	0	412	0	0	3-8	3-8	
E	370	0	0	370	0	0	1-8	1-8	

UNFACTORED REACTIONS

1ST LCASE	MAX./MIN. COMPONENT REACTIONS								
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL		
B	287	214 / 0	0 / 0	0 / 0	0 / 0	73 / 0	0 / 0		
E	259	188 / 0	0 / 0	0 / 0	0 / 0	70 / 0	0 / 0		

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 5.90 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	FORCE	FACTORED		MEMB.	FORCE	FACTORED	
	(LBS)	VERT. LOAD	LC1 MAX		(LBS)	MAX	
FR-TO		FROM TO	CSI (LC)	FR-TO		LENGTH	FR-TO
A-B	-7 / 0	-77.4	-77.4 0.08 (1)	F-H	-672 / 0	10.00	0.15 (1)
B-H	-982 / 0	-77.4	-77.4 0.28 (1)	G-H	0 / 631	5.90	0.00 (1)
H-C	0 / 8	-77.4	-77.4 0.27 (1)			10.00	
C-D	-23 / 0	-77.4	-77.4 0.19 (1)			6.25	
F-C	-314 / 0	0.0	0.0 0.04 (1)			7.81	
B-G	0 / 646	-18.2	-18.2 0.33 (1)			10.00	
G-F	0 / 646	-18.2	-18.2 0.57 (1)			10.00	
F-E	0 / 0	-18.2	-18.2 0.46 (1)			10.00	

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH.	LL = 23.3	PSF
DL	3.0	PSF
BOT CH.	LL = 0.0	PSF
DL	7.3	PSF
TOTAL LOAD	= 33.6	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 27.2 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 23.3 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL)= L/360 (0.21")
CALCULATED VERT. DEFL.(LL) = L/ 867 (0.09")
ALLOWABLE DEFL.(TL)= L/360 (0.21")
CALCULATED VERT. DEFL.(TL) = L/ 461 (0.16")

CSI: TC=0.28/1.00 (B-H:1), BC=0.57/1.00 (F-G:1),
WB=0.15/1.00 (F-H:1), SSI=0.38/1.00 (B-G:1)

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

COMPANION LIVE LOAD FACTOR = 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
MT20	618	354	1667
	822	2284	1656

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.53 (F) (INPUT = 0.90)
JSI METAL= 0.21 (F) (INPUT = 1.00)



READ ALL NOTES ON THIS PAGE AND ON ENGINEERING NOTE PAGE ENP-1. THIS NOTE PAGE IS AN INTEGRAL PART OF THIS DRAWING AS IT CONTAINS SPECIFICATIONS AND CRITERIA USED IN THE DESIGN OF THIS COMPONENT.



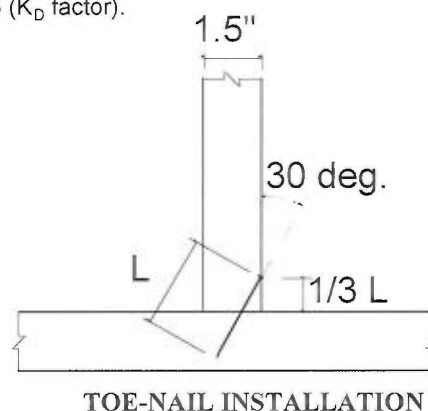
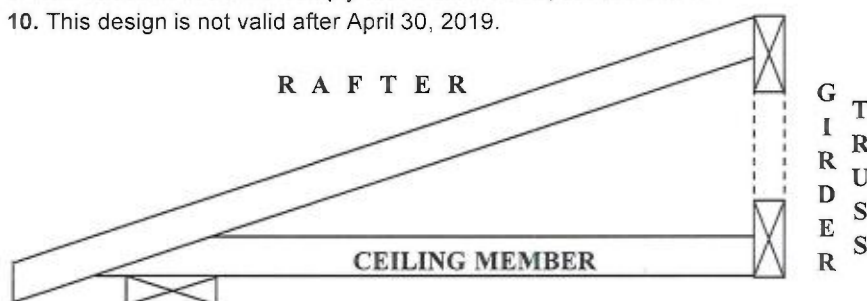
BEARING ANCHORAGE BY TOE-NAILS FOR LATERAL CAPACITY

B37579H1

NAIL TYPE	LENGTH (IN)	DIAMETER (IN)	NAIL LATERAL CAPACITY (LB)	
			S-P-F	D. FIR
COMMON WIRE	3.00	0.144	132	147
	3.25	0.144	132	147
	3.50	0.160	159	177

NOTES:

1. Rafter and ceiling members may be anchored to top and bottom chords of girder truss by toe-nailing rafter and ceiling members to girder chords provided the reaction does not exceed the lateral capacities in the table. Hangers (specified by others) are required for reactions higher than the maximum toe-nail capacity. Reactions are based on factored loads.
2. Toe nail capacities shown in the table are for one toe-nail. For additional toe-nails multiply values in table by the number of toe-nails used. Toe-nail capacities take into account toe-nailing factor J_A in CSA O86-09, section 10.9.4.1.
3. For 9- 3/4 gauge 3.25" common wire gun nails (diameter = 0.120") use 3" common spiral nail values.
4. Maximum number of toe-nails allowed depends on the lumber size & species to be toe-nailed to supporting member and nail diameter, as shown in tables below.
5. Nail values in table are based on the following relative lumber densities: $G = 0.42$ (SPF), $G = 0.49$ (D. Fir).
6. Toe-nails shall be driven at approximately $1/3$ the nail length from the edge of the joist/truss chord and driven at an angle of 30° to the grain of the member (See next page for nailing on bearing plate).
7. For loads due to wind the nail lateral capacity in this table may be multiplied by 1.15 (K_D factor).
8. Lumber must be dry ($< 19\%$ moisture content) at the time of nail installation.
9. Nail values in this table comply with CSA O86-09, section 10.9.4
10. This design is not valid after April 30, 2019.



Nail type	Common wire	Common spiral	Common wire
Nail dia. (in)	0.160	0.152	0.144
	(3.5" nail)		(3" and 3.25" nail)
LUMBER SIZE	MAXIMUM NUMBER OF TOE-NAILS		
2X4 SPF	2	2	3
2X4 D. Fir	2	2	2
2X6 SPF	4	4	4
2X6 D. Fir	3	3	3



MiTek Canada Inc
100 Industrial Rd.
Bradford, Ontario L3Z 3G7

PEO
Certificate No 10889485



April 26, 2017

BEARING ANCHORAGE BY TOE-NAILS FOR WIND LOADING

B37579H2

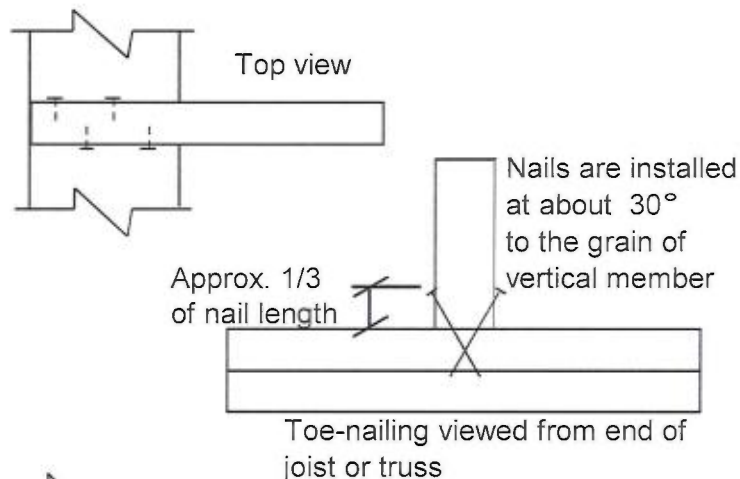
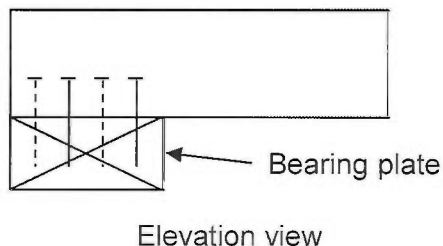
NAIL TYPE	LENGTH (IN)	DIAMETER (IN)	NAIL WITHDRAWAL CAPACITY (LB)	
			S-P-F	D. FIR
COMMON WIRE	3.00	0.144	30	42
	3.25	0.144	32	45
	3.50	0.160	38	52

Note: If using truss with D. Fir lumber and S-P-F bearing plate, use values in table for S-P-F.

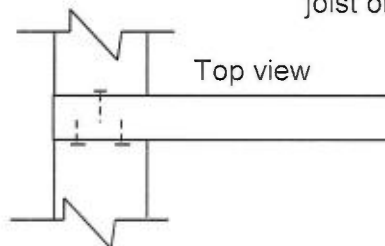
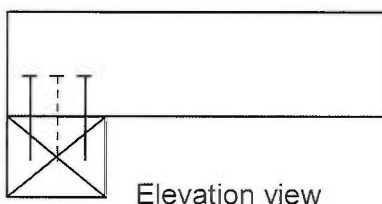
NOTES:

1. Truss chord, rafter, or ceiling members may be anchored to bearing plate by toe-nails, provided that the actual factored uplift force due to wind or earthquake load does not exceed the withdrawal capacities in the table. Hangers (specified by others) are required for uplift forces that are higher than the maximum toe-nail withdrawal capacity.
2. Toe nail capacities shown in the table are for one toe-nail. For additional toe-nails multiply values in table by the number of toe-nails used. Toe-nail capacities take into account toe-nailing factor J_A in CSA O86-09, section 10.9.5.2.
3. For 9- 3/4 gauge 3.25" common wire gun nails (diameter = 0.120") use 3" common spiral nail values.
4. Maximum number of toe-nails allowed depends on the lumber size & species to be toe-nailed to supporting member and nail diameter, as shown in table above.
5. Nail values in table are based on the following relative lumber densities: $G = 0.42$ (SPF), $G = 0.49$ (D. Fir).
6. Toe-nails shall be driven at approximately 1/3 the nail length from the edge of the joist/truss chord and driven at an angle of 30° to the grain of the member (See drawing on detail B37579H1).
7. Lumber must be dry (< 19% moisture content) at the time of nail installation.
8. Nail values in this table comply with CSA O86-09, section 10.9.5
9. This design is not valid after April 30, 2019

Toe-nailing on 2x6 Bearing Plate



Toe-nailing on 2x4 Bearing Plate



MiTek Canada Inc
100 Industrial Rd.
Bradford, Ontario L3Z 3G7

PEO
Certificate No. 10889485



April 26, 2017