

ENGINEERING NOTE PAGE (ENP-1)
PLEASE READ PRIOR TO INSTALLATION

NE0618-032
GREEN YORK HOMES-CELESTIAL 2 EL 1

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

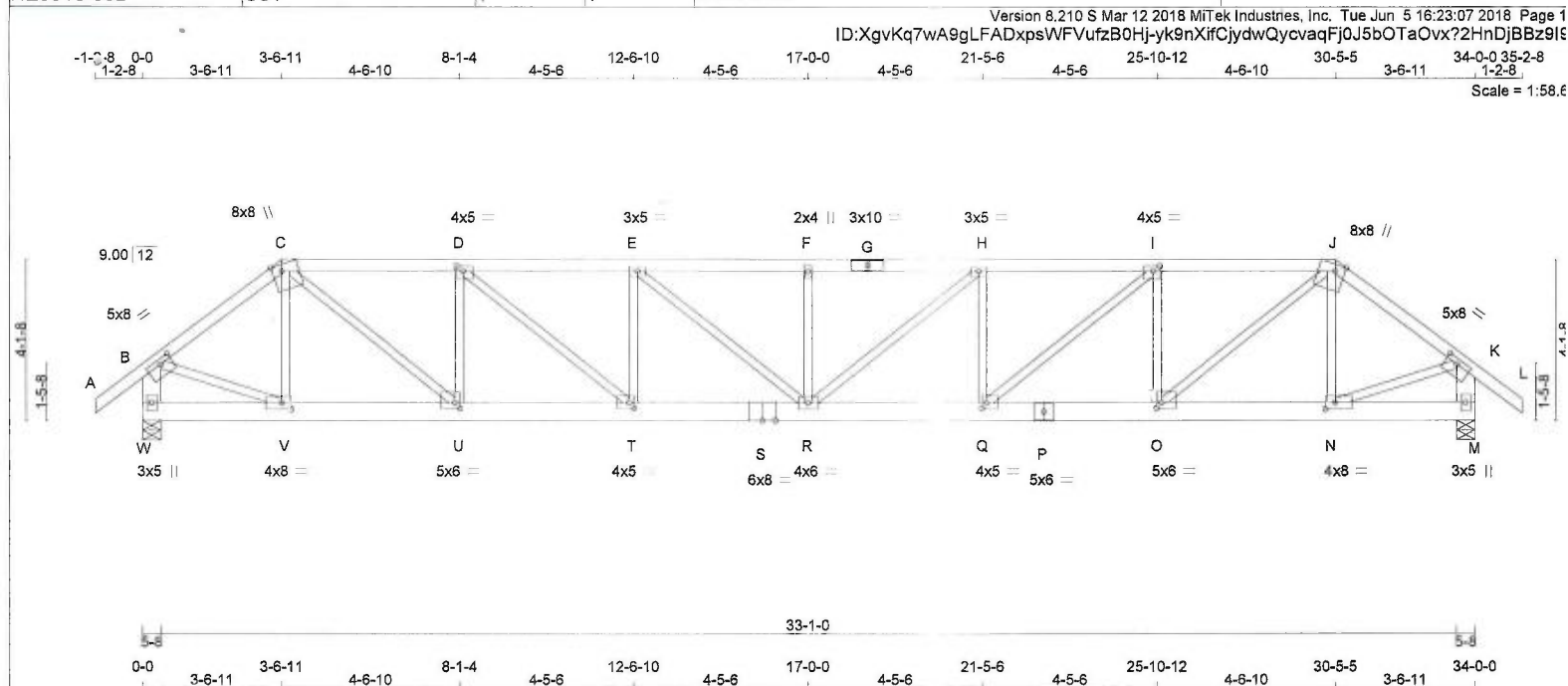
- The trusses must be handled and installed by a qualified professional as per the supplied document titled *Information for Truss Installers* and the BCSI-B1 and BCSI-B3 Summary Sheets
- The compression chords are laterally braced by continuous rigid diaphragm sheathing or as specified on the drawing
- 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.



LUMBER				DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER				DESIGN CRITERIA			
N. L. G. A. RULES	CHORDS	SIZE	LUMBER	DESCR.	BEARINGS	FACTORED	MAXIMUM FACTORED	INPUT	REQD	SPECIFIED LOADS:	
A - C	2x4	DRY	No.2	SPF	FACTORED	GROSS REACTION	MAXIMUM FACTORED	INPUT	REQD	TOP CH. LL = 23.3	PSF
C - G	2x4	DRY	2100F 1.8E	SPF	VERT	DOWN	DOWN	UPLIFT	IN-SX	DL = 3.0	PSF
G - J	2x4	DRY	2100F 1.8E	SPF	W	3104	0	0	5-8	BOT CH. LL = 0.0	PSF
J - L	2x4	DRY	No.2	SPF	M	3104	0	0	5-8	DL = 7.0	PSF
W - B	2x6	DRY	No.2	SPF						TOTAL LOAD = 33.3	PSF
M - K	2x6	DRY	No.2	SPF							
W - S	2x6	DRY	No.2	SPF							
S - P	2x6	DRY	No.2	SPF							
P - M	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
B	TMVW-t	MT20	5.0	8.0	1.50	3.50
C	TTWW+m	MT20	8.0	8.0	Edge	3.00
D	TMVW-t	MT20	4.0	5.0	1.50	2.00
E	TMVW-t	MT20	3.0	5.0		
F	TMVW-t	MT20	2.0	4.0		
G	TS-t	MT20	3.0	10.0		
H	TMVW-t	MT20	3.0	5.0		
I	TMVW-t	MT20	4.0	5.0	1.50	2.00
J	TTWW+m	MT20	8.0	8.0	Edge	3.00
K	TMVW-t	MT20	5.0	8.0	1.50	3.50
M	BMV1+p	MT20	3.0	5.0		
N	BMVW-t	MT20	4.0	8.0	2.00	3.00
O	BMVW-t	MT20	5.0	6.0	1.75	1.50
P	BS-t	MT20	5.0	6.0		
Q	BMVW-t	MT20	4.0	5.0	1.75	1.50
R	BMVW-t	MT20	4.0	6.0		
S	BS-t	MT20	6.0	8.0		
T	BMVW-t	MT20	4.0	5.0	1.75	1.50
U	BMVW-t	MT20	5.0	6.0	1.75	1.50
V	BMVW-t	MT20	4.0	8.0	2.00	3.00
W	BMV1+p	MT20	3.0	5.0		

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED	FACTORED	MAX	MEMB.	MAX. FACTORED	FACTORED	MAX
FR-TO	FORCE (LBS)	VERT. (PLF)	LC1 MAX (LC)	FR-TO	FORCE (LBS)	MAX. FACTORED	MAX (LC)
A-B	0/30	-77.4	-77.4 0.10 (1)	V-C	-602/0	0.15 (1)	
B-C	-3398/0	-77.4	-77.4 0.38 (1)	C-U	0/3178	0.79 (1)	
C-D	-5152/0	-145.9	-145.9 0.48 (1)	U-D	-1889/0	0.48 (1)	
D-E	-6542/0	-145.9	-145.9 0.58 (1)	D-T	0/1818	0.45 (1)	
E-F	-7008/0	-145.9	-145.9 0.54 (1)	T-E	-1018/0	0.26 (1)	
F-G	-7008/0	-145.9	-145.9 0.54 (1)	E-R	0/609	0.15 (1)	
G-H	-7008/0	-145.9	-145.9 0.54 (1)	R-F	-656/0	0.17 (1)	
H-I	-6542/0	-145.9	-145.9 0.58 (1)	R-H	0/609	0.15 (1)	
I-J	-5152/0	-145.9	-145.9 0.48 (1)	Q-H	-1018/0	0.26 (1)	
J-K	-3398/0	-77.4	-77.4 0.38 (1)	Q-I	0/1818	0.45 (1)	
K-L	0/30	-77.4	-77.4 0.10 (1)	O-I	-1889/0	0.48 (1)	
W-B	-3061/0	0.0	0.0 0.22 (1)	O-J	0/3178	0.79 (1)	
M-K	-3061/0	0.0	0.0 0.22 (1)	B-V	-602/0	0.15 (1)	
				N-V	0/2821	0.70 (1)	
				N-K	0/2821	0.70 (1)	
W-V	0/0	-33.0	-33.0 0.07 (4)				
V-U	0/2695	-33.0	-33.0 0.40 (1)				
U-T	0/5153	-33.0	-33.0 0.75 (1)				
T-S	0/6542	-33.0	-33.0 0.95 (1)				
S-R	0/6542	-33.0	-33.0 0.95 (1)				
R-Q	0/6542	-33.0	-33.0 0.95 (1)				
Q-P	0/5153	-33.0	-33.0 0.75 (1)				
P-O	0/5153	-33.0	-33.0 0.75 (1)				
O-N	0/2695	-33.0	-33.0 0.40 (1)				
N-M	0/0	-33.0	-33.0 0.07 (4)				

FACTORED CONCENTRATED LOADS (LBS)				FACE DIR. TYPE			
JT	LOC.	LC1	MAX	FACE	DIR.	TYPE	
C	3-6-11	-206	-206	FRONT	VERT	TOTAL	
J	30-5-5	-206	-206	FRONT	VERT	TOTAL	

HANGERS NOTES

1) SPECIAL HANGER(S) OR CONNECTION(S) REQUIRED TO SUPPORT CONCENTRATED LOAD(S) 206.4 lbs FACTORED DOWN AT 30-5-5, AND 206.4 lbs FACTORED DOWN AT 3-6-11 ON TOP 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.

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.90 (V) (INPUT = 0.90)

JSI METAL= 0.88 (S) (INPUT = 1.00)



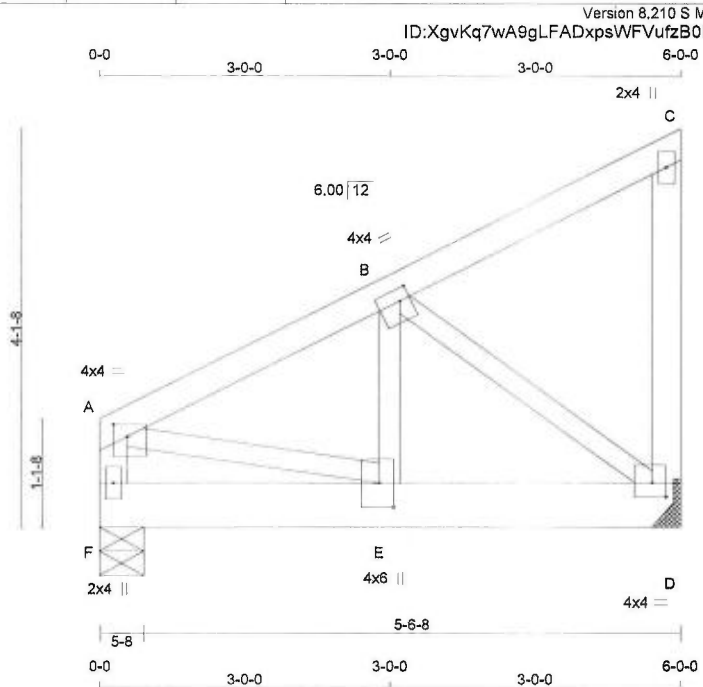
HANGERS NOTES

1) SPECIAL HANGER(S) OR CONNECTION(S) REQUIRED TO SUPPORT CONCENTRATED LOAD(S) 1330.9 lbs FACTORED DOWN AT 17-2-12, AND 927.6 lbs FACTORED DOWN AT 22-5-4 ON BOTTOM 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= 0.90 (O) (INPUT = 0.90)
JSI METAL= 0.98 (P) (INPUT = 1.00)

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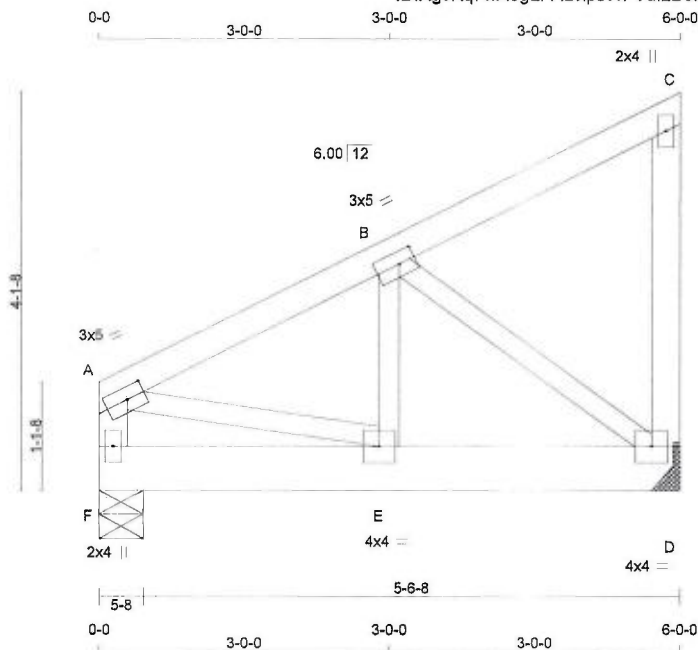




TOTAL WEIGHT = 29 lb [M]																																																																																																																																																																				
LUMBER N. L. G. A. RULES CHORDS SIZE LUMBER DESCR. F - A 2x4 DRY No.2 SPF A - C 2x4 DRY No.2 SPF D - C 2x4 DRY No.2 SPF F - D 2x6 DRY No.2 SPF ALL WEBS 2x3 DRY No.2 SPF DRY: SEASONED LUMBER.				DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER BEARINGS <table><tr><td></td><td colspan="2">FACTORED</td><td colspan="2">MAXIMUM FACTORED</td><td>INPUT</td><td>REQRD</td></tr><tr><td></td><td colspan="2">GROSS REACTION</td><td colspan="2">GROSS REACTION</td><td>BRG</td><td>BRG</td></tr><tr><td>JT</td><td>VERT</td><td>HORZ</td><td>DOWN</td><td>HORZ</td><td>UPLIFT</td><td>IN-SX</td></tr><tr><td>F</td><td>1331</td><td>0</td><td>1331</td><td>0</td><td>0</td><td>5-8</td></tr><tr><td>D</td><td>1331</td><td>0</td><td>1331</td><td>0</td><td>0</td><td>MECHANICAL</td></tr></table> A SUITABLE MECHANICAL CONNECTION IS REQUIRED AT JOINT D TO RESIST THE MAX FACTORED REACTIONS.											FACTORED		MAXIMUM FACTORED		INPUT	REQRD		GROSS REACTION		GROSS REACTION		BRG	BRG	JT	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	F	1331	0	1331	0	0	5-8	D	1331	0	1331	0	0	MECHANICAL																																																																																																																				
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				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 = 24.0 IN. C/C GIRDER TYPE: CStdGirder START DISTANCE = 0-0 START SPAN CARRIED = 17-2-0 END DISTANCE = 6-0-0 END SPAN CARRIED = 17-2-0 END WALL WIDTH = 5-8 APPLIED TO FRONT SIDE OF BOTTOM CHORD. - ADD'TL 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 (0.20") CALCULATED VERT. DEFL.(LL) = L/ 999 (0.01") ALLOWABLE DEFL.(TL)= L/360 (0.20") CALCULATED VERT. DEFL.(TL) = L/ 999 (0.03") CSI: TC=0.11/1.00 (A-B:1), BC=0.35/1.00 (D-E:1), WB=0.31/1.00 (B-D:1), SSI=0.42/1.00 (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																																																																																																																																																																

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Scale: 1/2"=1'

TOTAL WEIGHT = 29 lb [M]

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

PLATES (table is in inches)					
JT	TYPE	PLATES	W	LEN	Y X
A	TMVW-t	MT20	3.0	5.0	1.50 2.25
B	TMVW-t	MT20	3.0	5.0	1.50 2.00
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		FACTORED		MAXIMUM FACTORED		INPUT		REQRD	
		GROSS REACTION		GROSS REACTION		BRG		BRG	
JT		VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX	
F		928	0	928	0	0	5-8	5-8	
D		928	0	928	0	0	MECHANICAL		

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	
F	651	456 / 0	0 / 0	0 / 0	0 / 0	196 / 0	0 / 0	
D	651	456 / 0	0 / 0	0 / 0	0 / 0	196 / 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		FACTORED				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	VERT.	LOAD	LC1	MAX	MEMB.	MAX. FACTORED FORCE (LBS)	MAX	
				PLF	CSI (LC)				
FR-TO		FROM		TO	LENGTH	FR-TO			
F-A	-633 / 0	0.0	0.0	0.07 (1)	7.81	A-E	0 / 748	0.19 (1)	
A-B	-802 / 0	-77.4	-77.4	0.12 (1)	6.25	E-B	0 / 625	0.15 (1)	
B-C	-10 / 0	-77.4	-77.4	0.10 (1)	6.25	B-D	-905 / 0	0.22 (1)	
D-C	-93 / 0	0.0	0.0	0.02 (1)	7.81				
F-E	0 / 0	-231.9	-231.9	0.14 (1)	10.00				
E-D	0 / 726	-231.9	-231.9	0.23 (1)	10.00				

DESIGN CRITERIA

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

SPACING = 24.0 IN. C/C

GIRDER TYPE: CStd Girder
START DISTANCE = 0-0
START SPAN CARRIED = 11-6-0
END DISTANCE = 6-0-0
END SPAN CARRIED = 11-6-0
END WALL WIDTH = 5-8
APPLIED TO FRONT SIDE OF BOTTOM CHORD.
- ADD'TL 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 (0.20")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.01")
ALLOWABLE DEFL.(TL)= L/360 (0.20")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.02")

CSI: TC=0.12/1.00 (A-B:1), BC=0.23/1.00 (D-E:1), WB=0.22/1.00 (B-D:1), SSI=0.27/1.00 (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	SECTION		
	(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.

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.



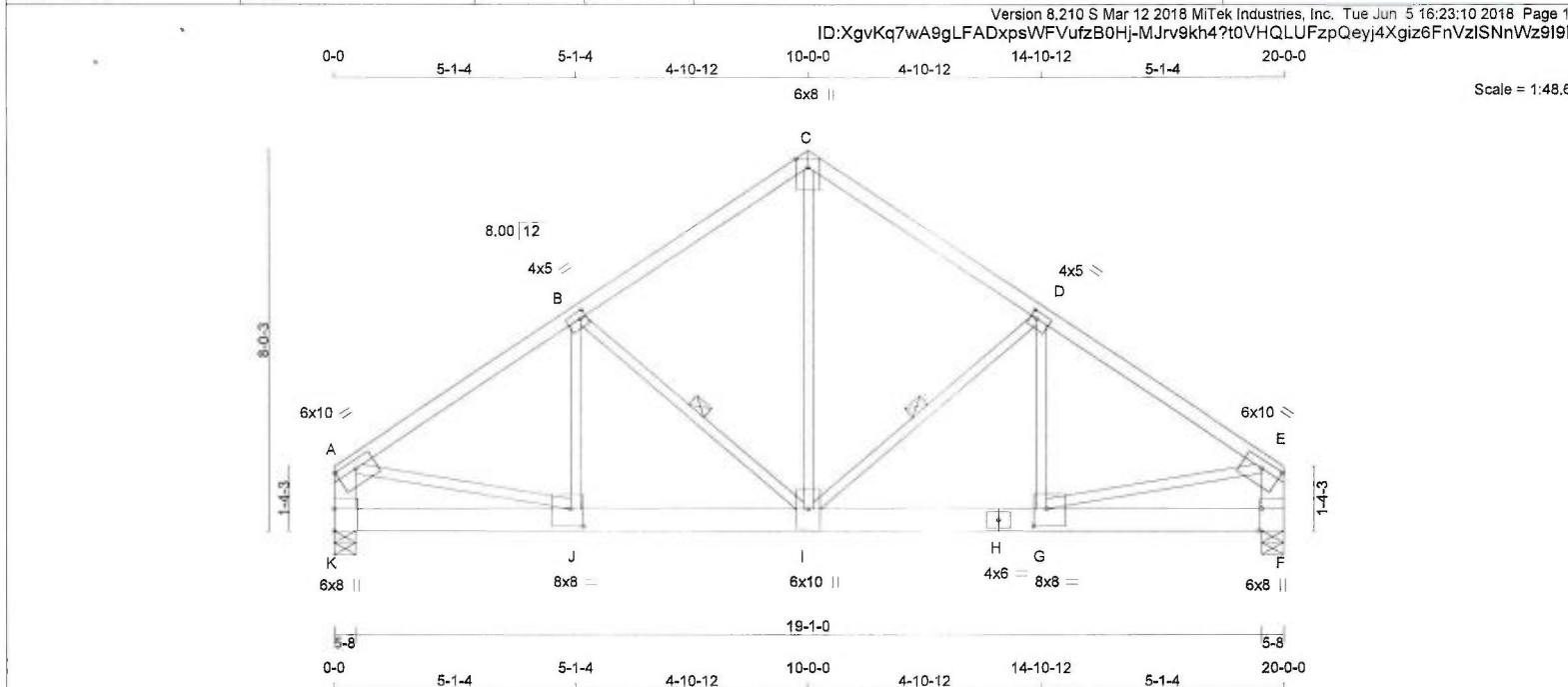
CONTINUED ON PAGE 2



JSI GRIP= 0.83 (A) (INPUT = 0.90)
JSI METAL= 0.27 (D) (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 C - E 2x4 DRY No.2 SPF K - A 2x6 DRY No.2 SPF F - E 2x6 DRY No.2 SPF K - H 2x6 DRY 2100F 1.8E SPF H - F 2x6 DRY 2100F 1.8E SPF ALL WEBS 2x3 DRY No.2 SPF EXCEPT DRY: SEASONED LUMBER. DESIGN CONSISTS OF <u>2</u> TRUSSES BUILT SEPARATELY THEN FASTENED TOGETHER AS FOLLOWS: CHORDS #ROWS SURFACE SPACING (IN) LOAD(PLF) TOP CHORDS : (0.122"x3") SPIRAL NAILS A- C 1 12 TOP C- E 1 12 TOP K- A 2 12 TOP F- E 2 12 TOP BOTTOM CHORDS : (0.122"x3") SPIRAL NAILS K- H 2 8 SIDE(374.0) H- F 2 8 SIDE(374.0) WEBS : (0.122"x3") SPIRAL NAILS 2x3 1 6 NAILS TO BE DRIVEN FROM ONE SIDE ONLY. TOP - COMPONENTS ARE LOADED FROM THE TOP AND MUST BE PLACED ON TOP EDGE OF ALL PLIES FOR THE LOAD TO BE TRANSFERRED TO EACH PLY. SIDE - PLF SHOWN IS THE EQUIVALENT UDL APPLIED TO ONE SIDE THAT THE CORRESPONDING NAILING PATTERN SHALL BE CAPABLE OF TRANSFERING. REMAINING PLF MUST BE APPLIED ON THE OPPOSITE SIDE OR ON THE TOP. PLATES (table is in inches) JT TYPE PLATES W LEN Y X A TMVW+ MT20 6.0 10.0 2.00 5.00					DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER BEARINGS FACTORED MAXIMUM FACTORED INPUT REQRD GROSS REACTION GROSS REACTION BRG BRG JT VERT HORZ DOWN HORZ UPLIFT IN-SX IN-SX K 8429 0 8429 0 0 5-8 5-8 F 8429 0 8429 0 0 5-8 5-8 UNFACTORED REACTIONS 1ST LCASE MAX./MIN. COMPONENT REACTIONS JT COMBINED SNOW LIVE PERM.LIVE WIND DEAD SOIL K 5915 4138 / 0 0 / 0 0 / 0 0 / 0 1777 / 0 0 / 0 F 5915 4138 / 0 0 / 0 0 / 0 0 / 0 1777 / 0 0 / 0 BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) K, F BRACING TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 2.88 FT. MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED. ALL PITCH BREAKS AND PERIMETER CORNER JOINTS MUST BE Laterally RESTRAINED. 1 - 1x4 LATERAL BRACE(S) AT 1/2 LENGTH OF D-I, B-I. DBS = 10-0-0 . CBF = 170 LBS. DBS = DIAGONAL BRACE SPACING (MAX). CBF = CUMULATIVE BRACING FORCE (PER BRACE). FASTEN LATERAL BRACE(S) TO EACH PLY 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) <table><tr><th colspan="4">CHORDS</th><th colspan="4">WEBS</th></tr><tr><th colspan="2">MAX. FACTORED</th><th colspan="2">FACTORED</th><th colspan="2">MAX. FACTORED</th><th colspan="2">FACTORED</th></tr><tr><th>MEMB.</th><th>FORCE (LBS)</th><th>VERT. LOAD (PLF)</th><th>LC1 MAX CSI (LC)</th><th>MAX. UNBRAC LENGTH</th><th>MEMB.</th><th>FORCE (LBS)</th><th>MAX CSI (LC)</th></tr><tr><td>FR-TO</td><td></td><td>FROM</td><td>TO</td><td></td><td>FR-TO</td><td></td><td></td></tr><tr><td>A- B</td><td>-9307 / 0</td><td>-77.4</td><td>-77.4 0.65 (1)</td><td>2.88</td><td>I- C</td><td>0 / 7310</td><td>0.90 (1)</td></tr><tr><td>B- C</td><td>-6893 / 0</td><td>-77.4</td><td>-77.4 0.39 (1)</td><td>3.52</td><td>I- D</td><td>-2722 / 0</td><td>0.42 (1)</td></tr><tr><td>C- D</td><td>-6893 / 0</td><td>-77.4</td><td>-77.4 0.39 (1)</td><td>3.52</td><td>G- D</td><td>0 / 2720</td><td>0.34 (1)</td></tr><tr><td>D- E</td><td>-9307 / 0</td><td>-77.4</td><td>-77.4 0.65 (1)</td><td>2.88</td><td>B- I</td><td>-2722 / 0</td><td>0.42 (1)</td></tr><tr><td>K- A</td><td>-6776 / 0</td><td>0.0</td><td>0.0 0.24 (1)</td><td>5.73</td><td>J- B</td><td>0 / 2720</td><td>0.34 (1)</td></tr><tr><td>F- E</td><td>-6776 / 0</td><td>0.0</td><td>0.0 0.24 (1)</td><td>5.73</td><td>A- J</td><td>0 / 7889</td><td>0.98 (1)</td></tr><tr><td></td><td></td><td></td><td></td><td></td><td>G- E</td><td>0 / 7889</td><td>0.98 (1)</td></tr><tr><td>K- J</td><td>0 / 0</td><td>-765.5</td><td>-765.5 0.36 (1)</td><td>10.00</td><td></td><td></td><td></td></tr><tr><td>J- I</td><td>0 / 7757</td><td>-765.5</td><td>-765.5 0.51 (1)</td><td>10.00</td><td></td><td></td><td></td></tr><tr><td>I- H</td><td>0 / 7757</td><td>-765.5</td><td>-765.5 0.51 (1)</td><td>10.00</td><td></td><td></td><td></td></tr><tr><td>H- G</td><td>0 / 7757</td><td>-765.5</td><td>-765.5 0.51 (1)</td><td>10.00</td><td></td><td></td><td></td></tr><tr><td>G- F</td><td>0 / 0</td><td>-765.5</td><td>-765.5 0.36 (1)</td><td>10.00</td><td></td><td></td><td></td></tr></table>										CHORDS				WEBS				MAX. FACTORED		FACTORED		MAX. FACTORED		FACTORED		MEMB.	FORCE (LBS)	VERT. LOAD (PLF)	LC1 MAX CSI (LC)	MAX. UNBRAC LENGTH	MEMB.	FORCE (LBS)	MAX CSI (LC)	FR-TO		FROM	TO		FR-TO			A- B	-9307 / 0	-77.4	-77.4 0.65 (1)	2.88	I- C	0 / 7310	0.90 (1)	B- C	-6893 / 0	-77.4	-77.4 0.39 (1)	3.52	I- D	-2722 / 0	0.42 (1)	C- D	-6893 / 0	-77.4	-77.4 0.39 (1)	3.52	G- D	0 / 2720	0.34 (1)	D- E	-9307 / 0	-77.4	-77.4 0.65 (1)	2.88	B- I	-2722 / 0	0.42 (1)	K- A	-6776 / 0	0.0	0.0 0.24 (1)	5.73	J- B	0 / 2720	0.34 (1)	F- E	-6776 / 0	0.0	0.0 0.24 (1)	5.73	A- J	0 / 7889	0.98 (1)						G- E	0 / 7889	0.98 (1)	K- J	0 / 0	-765.5	-765.5 0.36 (1)	10.00				J- I	0 / 7757	-765.5	-765.5 0.51 (1)	10.00				I- H	0 / 7757	-765.5	-765.5 0.51 (1)	10.00				H- G	0 / 7757	-765.5	-765.5 0.51 (1)	10.00				G- F	0 / 0	-765.5	-765.5 0.36 (1)	10.00				DESIGN CRITERIA SPECIFIED LOADS: TOP CH. LL = 23.3 PSF DL = 3.0 PSF BOT CH. LL = 0.0 PSF DL = 7.0 PSF TOTAL LOAD = 33.3 PSF SPACING = 24.0 IN. C/C GIRDER TYPE: CStdGirder START DISTANCE = 0-0 START SPAN CARRIED = 34-0-0 END DISTANCE = 20-0-0 END SPAN CARRIED = 34-0-0 END WALL WIDTH = 5-8 APPLIED TO FRONT SIDE OF BOTTOM CHORD. - ADDT'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 (0.67") CALCULATED VERT. DEFL.(LL) = L/ 999 (0.13") ALLOWABLE DEFL.(TL)= L/360 (0.67") CALCULATED VERT. DEFL.(TL) = L/ 999 (0.23") CSI: TC=0.65/1.00 (D-E:1) , BC=0.51/1.00 (G-I:1) , WB=0.98/1.00 (E-G:1) , SSI=0.75/1.00 (F-G:1) DOL LUMBER=1.00 NAIL=1.00 LS BEND=1.00 COMP=1.00 SHEAR=1.00 TENS= 1.00 COMPANION LIVE LOAD FACTOR = 0.50 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			
CHORDS				WEBS																																																																																																																																														
MAX. FACTORED		FACTORED		MAX. FACTORED		FACTORED																																																																																																																																												
MEMB.	FORCE (LBS)	VERT. LOAD (PLF)	LC1 MAX CSI (LC)	MAX. UNBRAC LENGTH	MEMB.	FORCE (LBS)	MAX CSI (LC)																																																																																																																																											
FR-TO		FROM	TO		FR-TO																																																																																																																																													
A- B	-9307 / 0	-77.4	-77.4 0.65 (1)	2.88	I- C	0 / 7310	0.90 (1)																																																																																																																																											
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K- A	-6776 / 0	0.0	0.0 0.24 (1)	5.73	J- B	0 / 2720	0.34 (1)																																																																																																																																											
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I- H	0 / 7757	-765.5	-765.5 0.51 (1)	10.00																																																																																																																																														
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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.

PLATES (table is in inches)

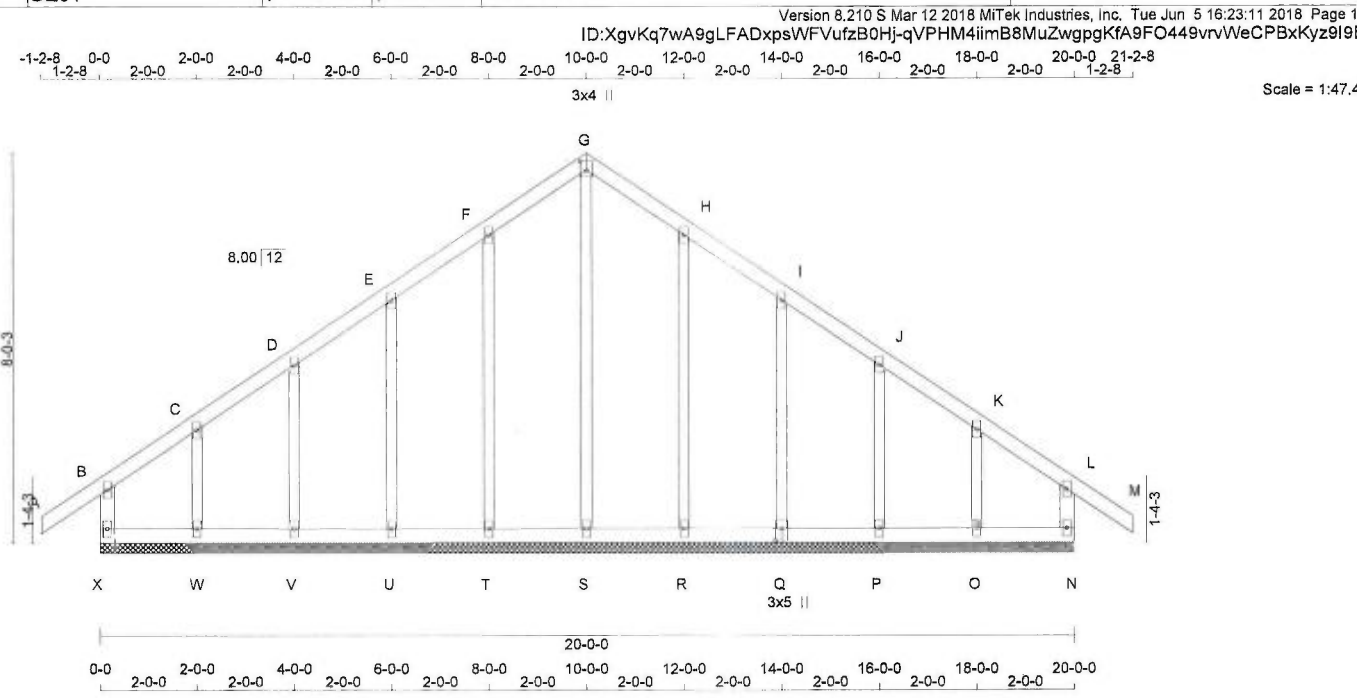
JT	TYPE	PLATES	W	LEN	Y	X
B	TMWW-t	MT20	4.0	5.0	1.75	1.50
C	TTW+p	MT20	6.0	8.0	Edge	
D	TMWW-t	MT20	4.0	5.0	1.75	1.50
E	TMVV-t	MT20	6.0	10.0	2.00	5.00
F	BMV1+t	MT20	6.0	8.0	Edge	0.50
G	BMWW-t	MT20	8.0	8.0	4.25	3.25
H	BS-t	MT20	4.0	6.0		
I	BMWWW+t	MT20	6.0	10.0		
J	BMWW-t	MT20	6.0	8.0	4.25	3.25
K	BMV1+t	MT20	6.0	8.0	5.50	

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

JSI GRIP= 0.89 (J) (INPUT = 0.90)
JSI METAL= 0.81 (H) (INPUT = 1.00)

READ ALL NOTES ON THIS PAGE AND ON
ENGINEERING NOTE PAGE ENP-1. THIS
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LUMBER
N. L. G. A. RULES
CHORDS SIZE LUMBER DESCR.
X - B 2x4 DRY No.2 SPF
A - G 2x4 DRY No.2 SPF
G - M 2x4 DRY No.2 SPF
N - L 2x4 DRY No.2 SPF
X - Q 2x4 DRY No.2 SPF
Q - N 2x4 DRY No.2 SPF

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

GABLE STUDS SPACED AT 2-0-0 OC.

PLATES (table is in inches)
JT TYPE PLATES W LEN Y X
B TMV+p MT20 2.0 4.0
C, D, E, F, H, I, J, K
C TMW+w MT20 2.0 4.0
G TTW+p MT20 3.0 4.0 2.25 1.50
L TMV+p MT20 2.0 4.0
N BMV1+p MT20 2.0 4.0
O, P, R, S, T, U, V, W
O BMW1+w MT20 2.0 4.0
Q BSW1+l MT20 3.0 5.0 3.00 1.50
X BMV1+p MT20 2.0 4.0

DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER
BEARINGS
THIS TRUSS DESIGNED FOR CONTINUOUS BEARINGS.

THIS TRUSS REQUIRES RIGID SHEATHING ON EXPOSED FACE.

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

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

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

LOADING
TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. UNBRACED LENGTH	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. UNBRACED LENGTH	
FR-TO		FROM TO		FR-TO			
X-B	-190 / 0	0.0 0.0 0.02 (1)	7.81	S-G	-147 / 0		0.18 (1)
A-B	0 / 28	-77.4 -77.4 0.09 (1)	10.00	T-F	-157 / 0		0.12 (1)
B-C	-29 / 0	-77.4 -77.4 0.03 (1)	6.25	U-E	-152 / 0		0.07 (1)
C-D	-22 / 0	-77.4 -77.4 0.04 (1)	6.25	V-D	-154 / 0		0.04 (1)
D-E	-19 / 0	-77.4 -77.4 0.04 (1)	6.25	W-C	-147 / 0		0.02 (1)
E-F	-15 / 0	-77.4 -77.4 0.04 (1)	6.25	R-H	-157 / 0		0.12 (1)
F-G	-13 / 0	-77.4 -77.4 0.04 (1)	6.25	Q-I	-152 / 0		0.07 (1)
G-H	-13 / 0	-77.4 -77.4 0.04 (1)	6.25	P-J	-154 / 0		0.04 (1)
H-I	-15 / 0	-77.4 -77.4 0.04 (1)	6.25	O-K	-147 / 0		0.02 (1)
I-J	-19 / 0	-77.4 -77.4 0.04 (1)	6.25				
J-K	-22 / 0	-77.4 -77.4 0.04 (1)	6.25				
K-L	-29 / 0	-77.4 -77.4 0.03 (1)	6.25				
L-M	0 / 28	-77.4 -77.4 0.09 (1)	10.00				
N-L	-190 / 0	0.0 0.0 0.02 (1)	7.81				
X-W	0 / 24	-17.5 -17.5 0.02 (1)	10.00				
W-V	0 / 19	-17.5 -17.5 0.02 (4)	10.00				
V-U	0 / 15	-17.5 -17.5 0.01 (4)	10.00				
U-T	0 / 13	-17.5 -17.5 0.01 (4)	10.00				
T-S	0 / 11	-17.5 -17.5 0.01 (4)	10.00				
S-R	0 / 11	-17.5 -17.5 0.01 (4)	10.00				
R-Q	0 / 13	-17.5 -17.5 0.01 (4)	10.00				
Q-P	0 / 16	-17.5 -17.5 0.01 (4)	10.00				
P-O	0 / 19	-17.5 -17.5 0.02 (4)	10.00				
O-N	0 / 24	-17.5 -17.5 0.02 (1)	10.00				

DESIGN CRITERIA

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

CSI: TC=0.09/1.00 (L-M:1) , BC=0.02/1.00 (N-O:1) , WB=0.18/1.00 (G-S:1) , SS=0.06/1.00 (L-M:1)

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

COMPANION LIVE LOAD FACTOR = 0.50

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

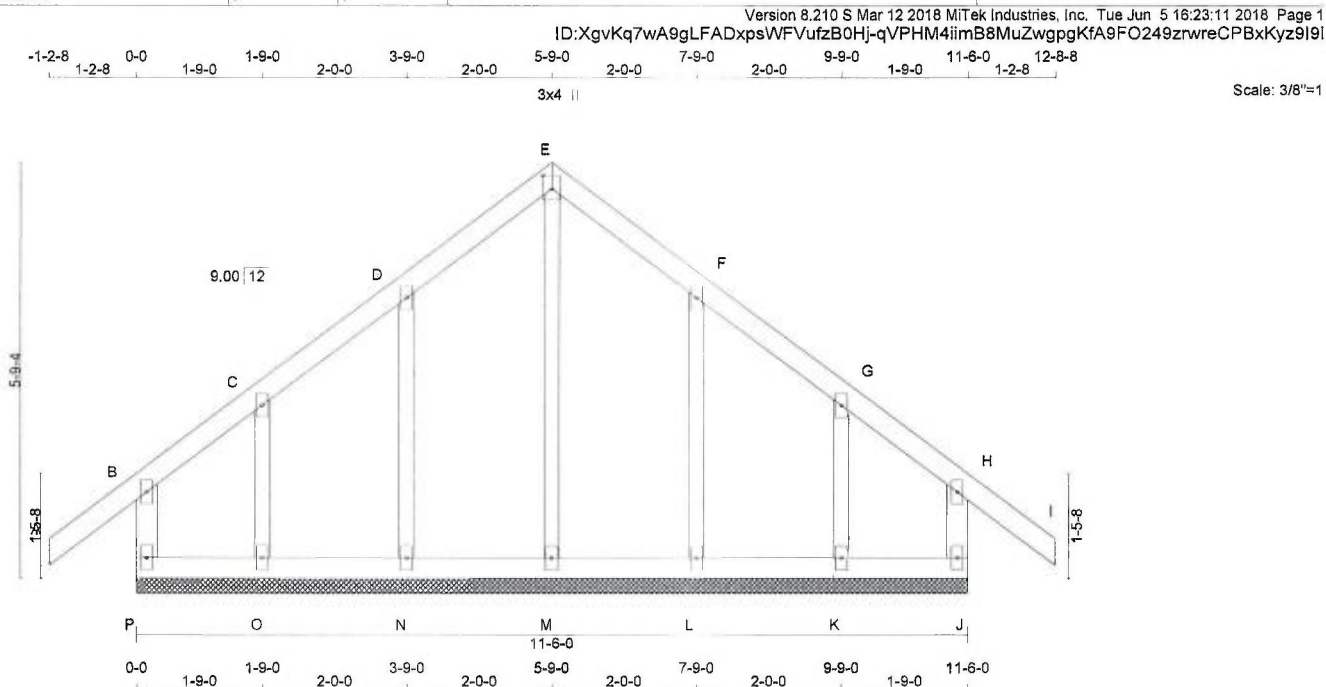
NAIL VALUES
PLATE GRIP(DRY) SHEAR SECTION (PSI) (PLI) (PLI)
MAX MIN MAX MIN MAX MIN
MT20 618 354 1667 822 2284 1656

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.63 (Q) (INPUT = 0.90)
JSI METAL= 0.06 (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.



TOTAL WEIGHT = 50 lb [M]

LUMBER

N. L. G. A. RULES	SIZE	DRY	LUMBER
CHORDS	2x4	DRY	No.2
P - B	2x4	DRY	No.2
A - E	2x4	DRY	No.2
E - I	2x4	DRY	No.2
J - H	2x4	DRY	No.2
P - J	2x4	DRY	No.2

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

GABLE STUDS SPACED AT 2'-0" OC.

PLATES (table is in inches)

JT TYPE	PLATES	W	LEN	Y	X
B - TMV+p	MT20	2.0	4.0		
C, D, F, G					
C - TMW+w	MT20	2.0	4.0		
E - TTW+p	MT20	3.0	4.0	2.25	1.50
H - TMV+p	MT20	2.0	4.0		
J - BMV1+p	MT20	2.0	4.0		
K, L, M, N, O					
K - BMW1+w	MT20	2.0	4.0		
P - BMV1+p	MT20	2.0	4.0		

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

BEARINGS
THIS TRUSS DESIGNED FOR CONTINUOUS BEARINGS.
THIS TRUSS REQUIRES RIGID SHEATHING ON EXPOSED FACE.
BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S)

BRACING

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

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS					WEBS				
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	LC1 MAX	MAX UNBRAC LENGTH	MEMB.	MAX. FACTORED FORCE (LBS)	MAX CSI (LC)		
FR-TO		FROM TO			FR-TO				
P-B	-172 / 0	0.0 0.0	0.03 (1)	7.81	M-E	-187 / 0	0.09 (1)		
A-B	0 / 30	-77.4 -77.4	0.09 (1)	10.00	N-D	-165 / 0	0.05 (1)		
B-C	-2 / 6	-77.4 -77.4	0.06 (1)	10.00	O-C	-114 / 0	0.02 (1)		
C-D	0 / 26	-77.4 -77.4	0.05 (1)	10.00	L-F	-165 / 0	0.05 (1)		
D-E	0 / 24	-77.4 -77.4	0.05 (1)	10.00	K-G	-114 / 0	0.02 (1)		
E-F	0 / 24	-77.4 -77.4	0.05 (1)	10.00					
F-G	0 / 26	-77.4 -77.4	0.05 (1)	10.00					
G-H	-2 / 6	-77.4 -77.4	0.06 (1)	10.00					
H-I	0 / 30	-77.4 -77.4	0.09 (1)	10.00					
J-H	-172 / 0	0.0 0.0	0.03 (1)	7.81					
P-Q	-13 / 0	-17.5 -17.5	0.01 (4)	6.25					
O-N	-17 / 0	-17.5 -17.5	0.01 (4)	6.25					
N-M	-21 / 0	-17.5 -17.5	0.01 (4)	6.25					
M-L	-21 / 0	-17.5 -17.5	0.01 (4)	6.25					
L-K	-17 / 0	-17.5 -17.5	0.01 (4)	6.25					
K-J	-13 / 0	-17.5 -17.5	0.01 (4)	6.25					

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 = 24.0 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

CSI: TC=0.09/1.00 (H-I:1), BC=0.01/1.00 (L-M:4), WB=0.09/1.00 (E-M:1), SSI=0.06/1.00 (H-I:1)

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

COMPANION LIVE LOAD FACTOR = 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 1666	

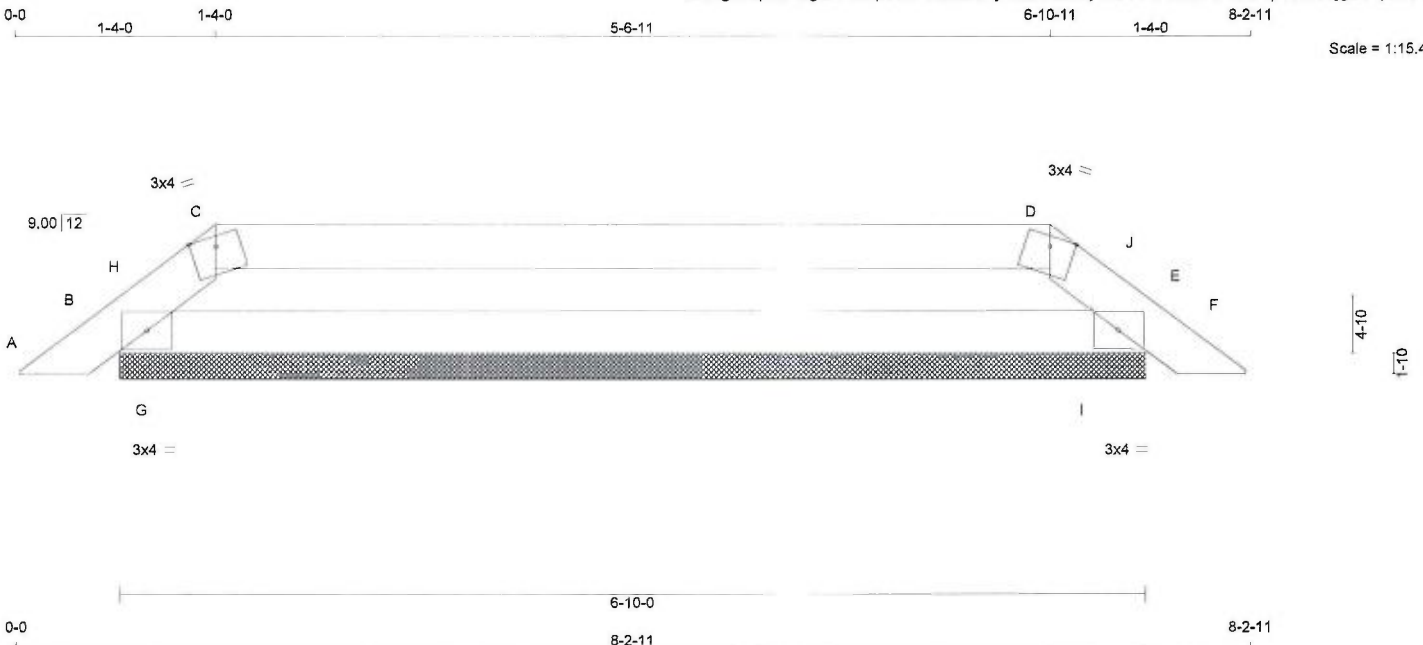
PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.13 (E) (INPUT = 0.90)
JSI METAL= 0.06 (E) (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.

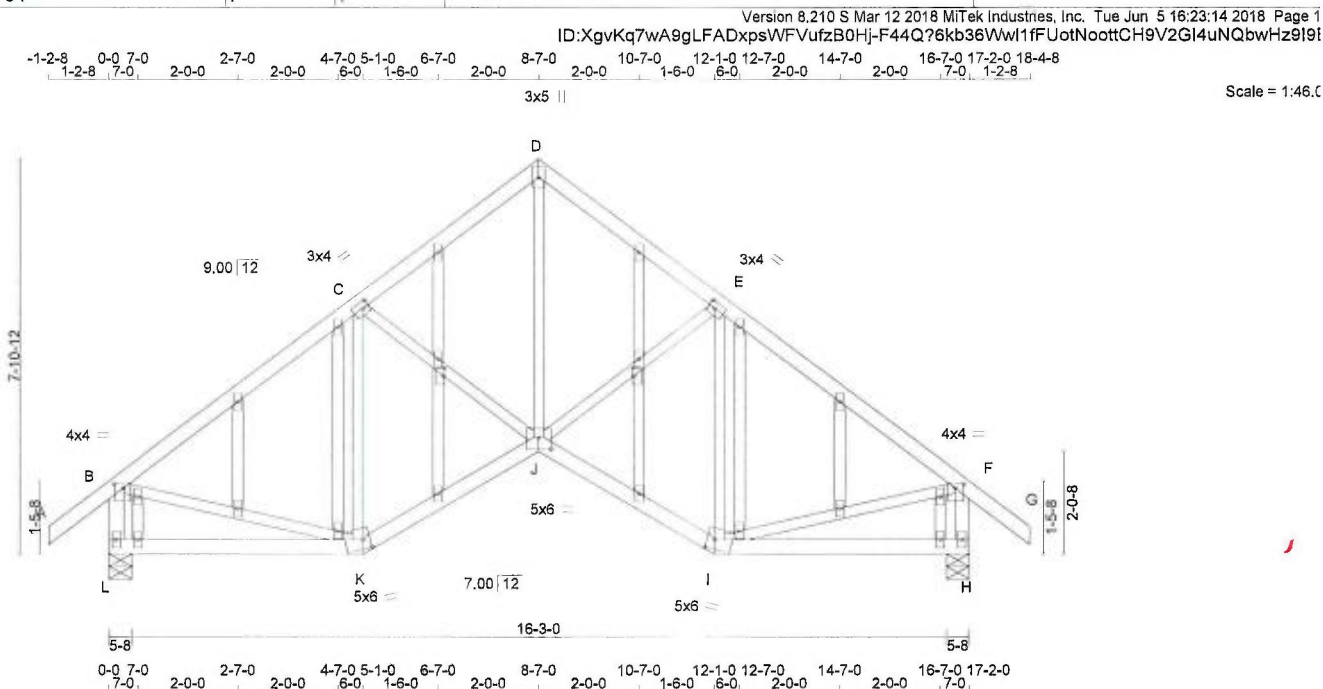




LUMBER N. L. G. A. RULES CHORDS SIZE LUMBER DESCR. A - C 2x4 DRY No.2 SPF C - D 2x4 DRY No.2 SPF D - F 2x4 DRY No.2 SPF B - E 2x4 DRY No.2 SPF DRY: SEASONED LUMBER.					DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER BEARINGS <table><tr><th></th><th>FACTORED GROSS REACTION</th><th>MAXIMUM FACTORED GROSS REACTION</th><th>INPUT BRG</th><th>REQRD BRG</th></tr><tr><td>JT</td><td>VERT HORZ</td><td>DOWN HORZ UPLIFT</td><td>IN-SX IN-SX</td><td></td></tr><tr><td>B</td><td>370 0</td><td>370 0 0</td><td>6-10-0 6-10-0</td><td></td></tr><tr><td>E</td><td>370 0</td><td>370 0 0</td><td>6-10-0 6-10-0</td><td></td></tr></table> UNFACTORED REACTIONS <table><tr><th></th><th>1ST LCASE</th><th>MAX./MIN. SNOW</th><th>MAX./MIN. LIVE</th><th>MAX./MIN. PERM. LIVE</th><th>MAX./MIN. WIND</th><th>MAX./MIN. DEAD</th><th>MAX./MIN. SOIL</th></tr><tr><td>JT</td><td>COMBINED</td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>B</td><td>258</td><td>187 / 0</td><td>0 / 0</td><td>0 / 0</td><td>0 / 0</td><td>72 / 0</td><td>0 / 0</td></tr><tr><td>E</td><td>258</td><td>187 / 0</td><td>0 / 0</td><td>0 / 0</td><td>0 / 0</td><td>72 / 0</td><td>0 / 0</td></tr></table> BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) B, 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) <table><tr><th colspan="3">CHORDS</th><th colspan="3">WEBS</th></tr><tr><th>MEMB.</th><th>MAX. FACTORED FORCE (LBS)</th><th>FACTORED VERT. LOAD (PLF)</th><th>MAX. FACTORED VERT. LOAD (PLF)</th><th>MEMB.</th><th>MAX. FACTORED FORCE (LBS)</th><th>MAX. FACTORED VERT. LOAD (PLF)</th></tr><tr><td>FR-TO</td><td></td><td></td><td></td><td>FR-TO</td><td></td><td></td></tr><tr><td>A-B</td><td>0 / 12</td><td>-77.4</td><td>-77.4 0.02 (1)</td><td>10.00</td><td>-80 / 122</td><td>0.00 (1)</td></tr><tr><td>B-H</td><td>-247 / 0</td><td>-77.4</td><td>-77.4 0.06 (4)</td><td>6.25</td><td>I-J</td><td>-80 / 122 0.00 (1)</td></tr><tr><td>H-C</td><td>-856 / 0</td><td>-77.4</td><td>-77.4 0.23 (1)</td><td>6.25</td><td></td><td></td></tr><tr><td>C-D</td><td>-857 / 0</td><td>-77.4</td><td>-77.4 0.24 (1)</td><td>6.25</td><td></td><td></td></tr><tr><td>D-J</td><td>-856 / 0</td><td>-77.4</td><td>-77.4 0.23 (1)</td><td>6.25</td><td></td><td></td></tr><tr><td>J-E</td><td>-247 / 0</td><td>-77.4</td><td>-77.4 0.06 (4)</td><td>6.25</td><td></td><td></td></tr><tr><td>E-F</td><td>0 / 12</td><td>-77.4</td><td>-77.4 0.02 (1)</td><td>10.00</td><td></td><td></td></tr><tr><td>B-G</td><td>0 / 176</td><td>-17.5</td><td>-17.5 0.06 (1)</td><td>10.00</td><td></td><td></td></tr><tr><td>G-I</td><td>0 / 657</td><td>-17.5</td><td>-17.5 0.17 (4)</td><td>10.00</td><td></td><td></td></tr><tr><td>I-E</td><td>0 / 176</td><td>-17.5</td><td>-17.5 0.06 (1)</td><td>10.00</td><td></td><td></td></tr></table>						FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	REQRD BRG	JT	VERT HORZ	DOWN HORZ UPLIFT	IN-SX IN-SX		B	370 0	370 0 0	6-10-0 6-10-0		E	370 0	370 0 0	6-10-0 6-10-0			1ST LCASE	MAX./MIN. SNOW	MAX./MIN. LIVE	MAX./MIN. PERM. LIVE	MAX./MIN. WIND	MAX./MIN. DEAD	MAX./MIN. SOIL	JT	COMBINED							B	258	187 / 0	0 / 0	0 / 0	0 / 0	72 / 0	0 / 0	E	258	187 / 0	0 / 0	0 / 0	0 / 0	72 / 0	0 / 0	CHORDS			WEBS			MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. FACTORED VERT. LOAD (PLF)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. FACTORED VERT. LOAD (PLF)	FR-TO				FR-TO			A-B	0 / 12	-77.4	-77.4 0.02 (1)	10.00	-80 / 122	0.00 (1)	B-H	-247 / 0	-77.4	-77.4 0.06 (4)	6.25	I-J	-80 / 122 0.00 (1)	H-C	-856 / 0	-77.4	-77.4 0.23 (1)	6.25			C-D	-857 / 0	-77.4	-77.4 0.24 (1)	6.25			D-J	-856 / 0	-77.4	-77.4 0.23 (1)	6.25			J-E	-247 / 0	-77.4	-77.4 0.06 (4)	6.25			E-F	0 / 12	-77.4	-77.4 0.02 (1)	10.00			B-G	0 / 176	-17.5	-17.5 0.06 (1)	10.00			G-I	0 / 657	-17.5	-17.5 0.17 (4)	10.00			I-E	0 / 176	-17.5	-17.5 0.06 (1)	10.00			DESIGN CRITERIA SPECIFIED LOADS: TOP CH. LL = 23.3 PSF DL = 3.0 PSF BOT CH. LL = 3.0 PSF DL = 7.0 PSF TOTAL LOAD = 33.3 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 086-08 - 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 CSI: TC=0.24/1.00 (C-D:1), BC=0.17/1.00 (G-I:4), WB=0.00/1.00 (G-H:1), SSI=0.19/1.00 (C-H:1) DOL LUMBER=1.00 NAIL=1.00 LS BEND=1.10 COMP=1.10 SHEAR=1.10 TENS= 1.10 COMPANION LIVE LOAD FACTOR = 0.50 TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT .				
	FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	REQRD BRG																																																																																																																																																								
JT	VERT HORZ	DOWN HORZ UPLIFT	IN-SX IN-SX																																																																																																																																																									
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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 = 98 LB [M]F

LUMBER				DESCR.	
N. L. G. A. RULES	CHORDS	SIZE	LUMBER		
A - D	2x4	DRY	No.2	SPF	
D - G	2x4	DRY	No.2	SPF	
L - B	2x4	DRY	No.2	SPF	
H - F	2x4	DRY	No.2	SPF	
L - K	2x4	DRY	No.2	SPF	
K - J	2x4	DRY	No.2	SPF	
J - I	2x4	DRY	No.2	SPF	
I - H	2x4	DRY	No.2	SPF	
ALL WEBS EXCEPT	2x3	DRY	No.2	SPF	
ALL GABLE WEBS	2x3	DRY	No.2	SPF	
DRY: SEASONED LUMBER.					
GABLE STUDS SPACED AT 2'-0" O.C.					

PLATES (table is in inches)					
JT	TYPE	PLATES	W	LEN	Y X
B	TMVW-p	MT20	4.0	4.0	1.00 2.25
C	TMWW-t	MT20	3.0	4.0	1.50 1.50
D	TTW+p	MT20	3.0	5.0	
E	TMWW-t	MT20	3.0	4.0	1.50 1.50
F	TMVW-p	MT20	4.0	4.0	1.00 2.25
H	BMV1+p	MT20	2.0	4.0	
H, I, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z					
H	NP+w	MT20	2.0	4.0	
I	BBWW-m	MT20	5.0	6.0	2.25 1.75
J	BBWW-p	MT20	5.0	6.0	2.75 3.00
K	BBWW-m	MT20	5.0	6.0	2.25 1.75
L	BMV1+p	MT20	2.0	4.0	
M	NP+w	MT20	2.0	4.0	2.00 0.25
V	NP+w	MT20	2.0	4.0	2.00 0.25

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

BEARINGS		FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT REQRD	
JT		VERT	HORZ	DOWN	HORZ	BRG	IN-SX
L		914	0	914	0	5-8	5-8
H		914	0	914	0	5-8	5-8

UNFACTORED REACTIONS

JT	1ST LCASE	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
L		640	460 / 0	0 / 0	0 / 0	179 / 0	0 / 0
H		640	460 / 0	0 / 0	0 / 0	179 / 0	0 / 0

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 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)	VERT. LOAD (PLF)	LC1 MAX (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. UNBRACED LENGTH	MAX. FACTORED (LC)
FR-TO				FR-TO			
A-B	0 / 30	-77.4	-77.4 0.09 (1)	J-D	0 / 775	10.00	0.17 (1)
B-C	-769 / 0	-77.4	-77.4 0.23 (1)	J-E	0 / 15	6.25	0.00 (4)
C-D	-824 / 0	-77.4	-77.4 0.20 (1)	I-E	-430 / 0	6.25	0.17 (1)
D-E	-824 / 0	-77.4	-77.4 0.20 (1)	C-J	0 / 15	6.25	0.00 (4)
E-F	-769 / 0	-77.4	-77.4 0.23 (1)	K-C	-430 / 0	6.25	0.17 (1)
F-G	0 / 30	-77.4	-77.4 0.09 (1)	B-K	0 / 648	10.00	0.15 (1)
L-B	-870 / 0	0.0	0.0 0.09 (1)	I-F	0 / 648	7.81	0.15 (1)
H-F	-870 / 0	0.0	0.0 0.09 (1)				
L-K	0 / 0	-17.5	-17.5 0.13 (4)				
K-J	0 / 723	-17.5	-17.5 0.15 (1)				
J-I	0 / 723	-17.5	-17.5 0.15 (1)				
I-H	0 / 0	-17.5	-17.5 0.13 (4)				

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 = 24.0 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 (0.57")
CALCULATED VERT. DEFL.(LL) = L/999 (0.03")
ALLOWABLE DEFL.(TL)= L/360 (0.57")
CALCULATED VERT. DEFL.(TL) = L/999 (0.05")

CSI: TC=0.23/1.00 (B-C:1), BC=0.15/1.00 (I-J:1), WB=0.17/1.00 (D-J:1), SSI=0.14/1.00 (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

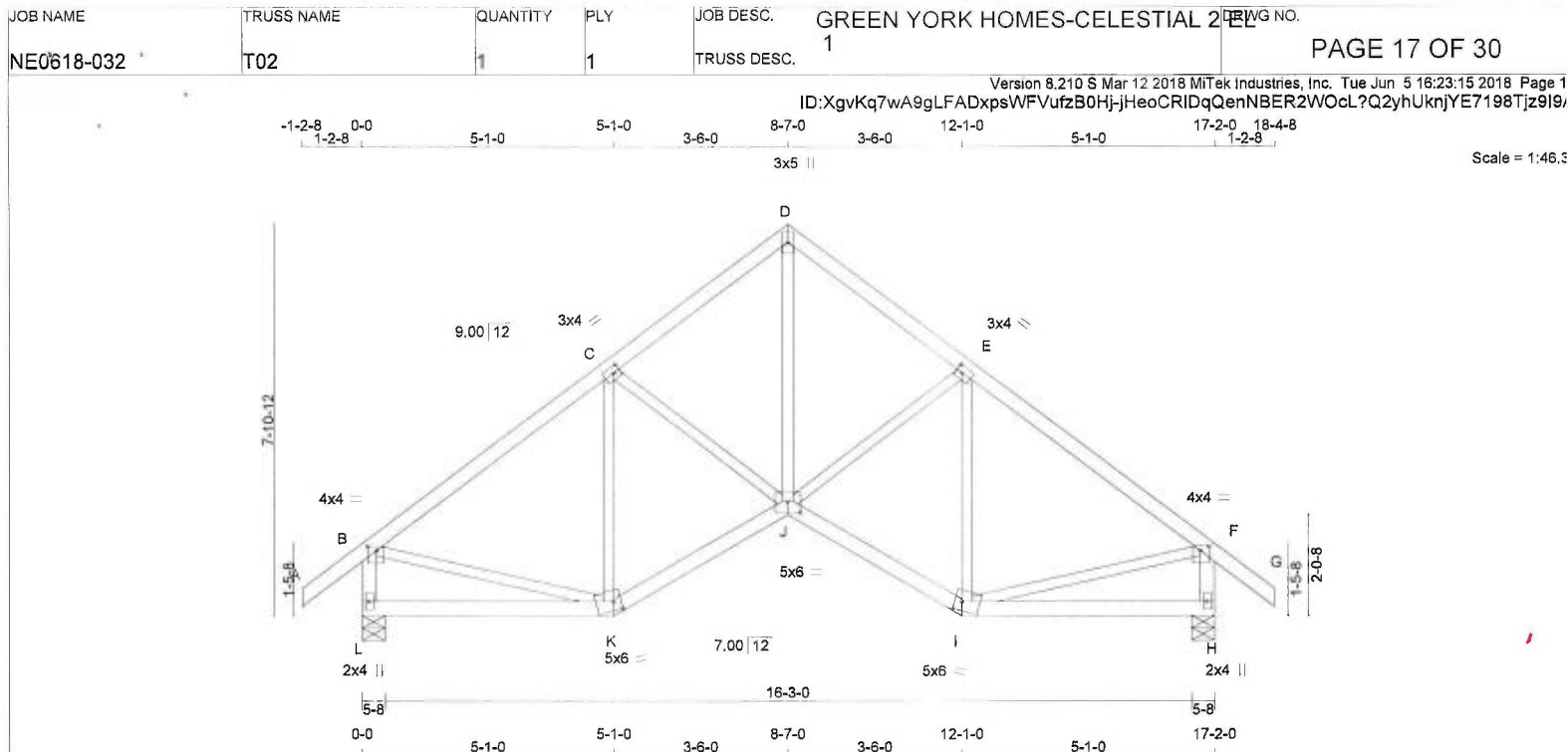
PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.89 (E) (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.

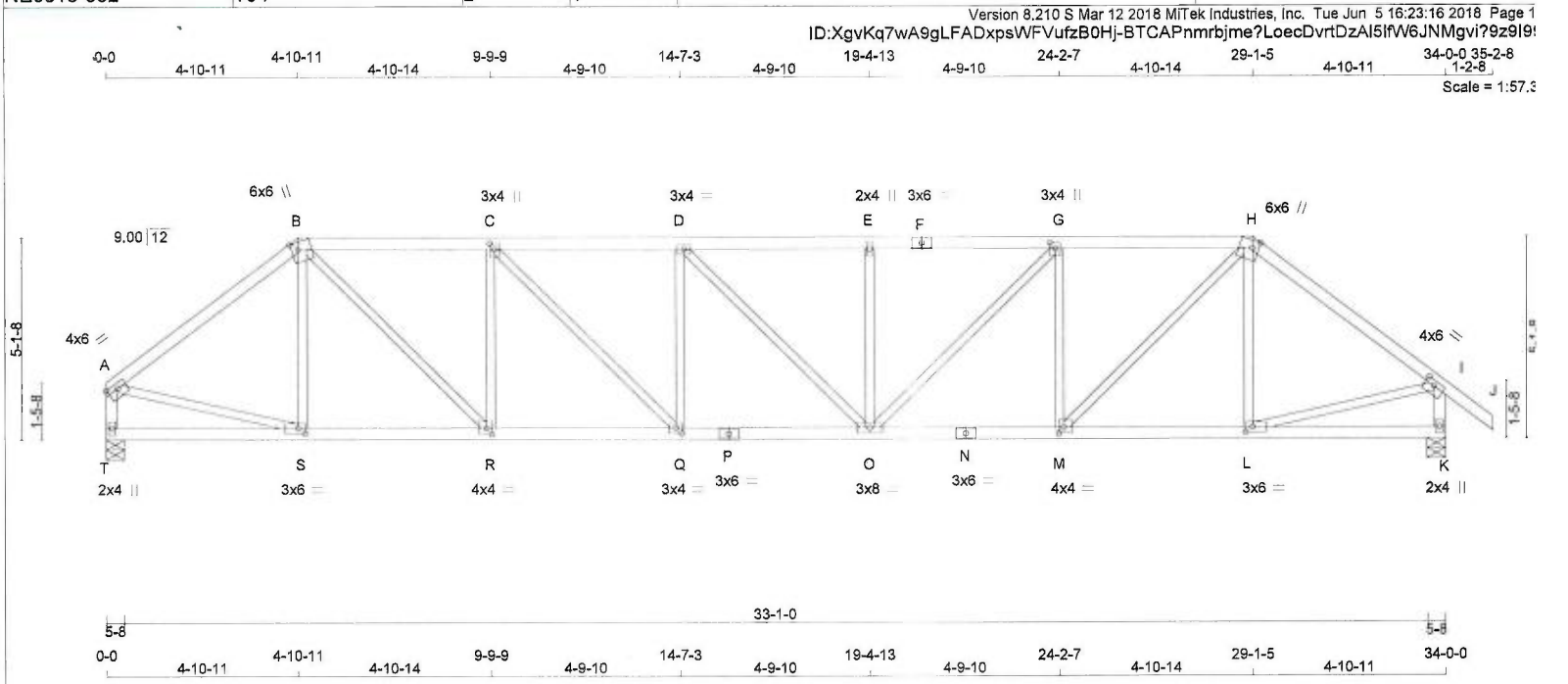




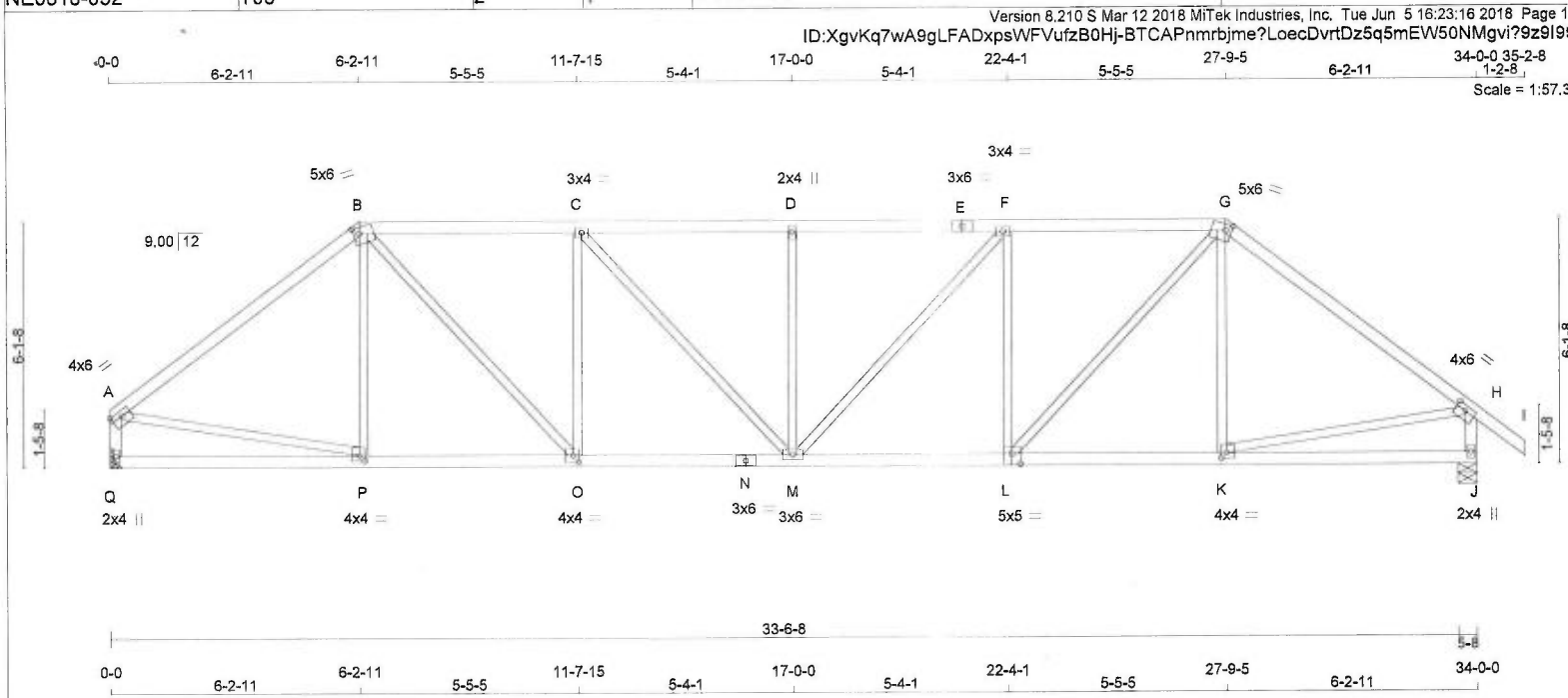
LUMBER				DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER				DESIGN CRITERIA			
N. L. G. A. RULES				BEARINGS				SPECIFIED LOADS:			
CHORDS	SIZE	LUMBER	DESCR.	FACTORED GROSS REACTION				TOP CH. LL = 23.3 PSF			
A - D	2x4	DRY	No.2	JT	VERT	HORZ	DOWN	DL = 3.0 PSF			
D - G	2x4	DRY	No.2	L	914	0	914	BOT CH. LL = 0.0 PSF			
L - B	2x4	DRY	No.2	H	914	0	914	DL = 7.0 PSF			
H - F	2x4	DRY	No.2	UNFACTORED REACTIONS				TOTAL LOAD = 33.3 PSF			
L - K	2x4	DRY	No.2	1ST LCASE				SPACING = 24.0 IN. C/C			
K - J	2x4	DRY	No.2	JT	COMBINED	SNOW	LIVE	THIS TRUSS IS DESIGNED FOR RESIDENTIAL			
J - I	2x4	DRY	No.2	L	640	460 / 0	0 / 0	OR SMALL BUILDING REQUIREMENTS OF			
I - H	2x4	DRY	No.2	H	640	460 / 0	0 / 0	PART 9, NBCC 2010			
ALL WEBS	2x3	DRY	No.2	MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY				THIS DESIGN COMPLIES WITH:			
EXCEPT				APPLIED.				- PART 9 OF OBC 2012, BCBC 2012, ABC 2014			
DRY: SEASONED LUMBER.				BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) L, H				- CSA 086-09			
				BRACING				- TPIC 2011			
				TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 6.25 FT.				(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			
				MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY				ROOF LIVE LOAD			
				ALL PITCH BREAKS AND PERIMETER CORNER JOINTS MUST BE Laterally RESTRAINED.				ALLOWABLE DEFL.(LL)= L/360 (0.57")			
				LOADING				CALCULATED VERT. DEFL.(LL) = L/999 (0.03")			
				TOTAL LOAD CASES: (4)				ALLOWABLE DEFL.(TL)= L/360 (0.57")			
				CHORDS				CALCULATED VERT. DEFL.(TL) = L/999 (0.05")			
				MEMB. MAX. FACTORED FORCE (LBS)				CSI: TC=0.23/1.00 (B-C:1), BC=0.15/1.00 (I-J:1),			
				VERT. LOAD LC1 MAX (PLF)				WB=0.17/1.00 (D-J:1), SSI=0.14/1.00 (B-C:1)			
				FROM TO				DOL LUMBER=1.00 NAIL=1.00 LS BEND=1.10			
				CS1 (LC)				COMP=1.10 SHEAR=1.10 TENS= 1.10			
				MAX. UNBRACED LENGTH				COMPANION LIVE LOAD FACTOR = 0.50			
				FR-TO				TRUSS PLATE MANUFACTURER IS NOT			
				J-D				RESPONSIBLE FOR QUALITY CONTROL IN			
				J-E				THE TRUSS MANUFACTURING PLANT.			
				I-E				NAIL VALUES			
				C-J				PLATE GRIP(DRY) SHEAR SECTION			
				K-C				(PSI) (PLI) (PLI)			
				B-K				MAX MIN MAX MIN MAX MIN			
				I-F				MT20 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= 0.24 (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.

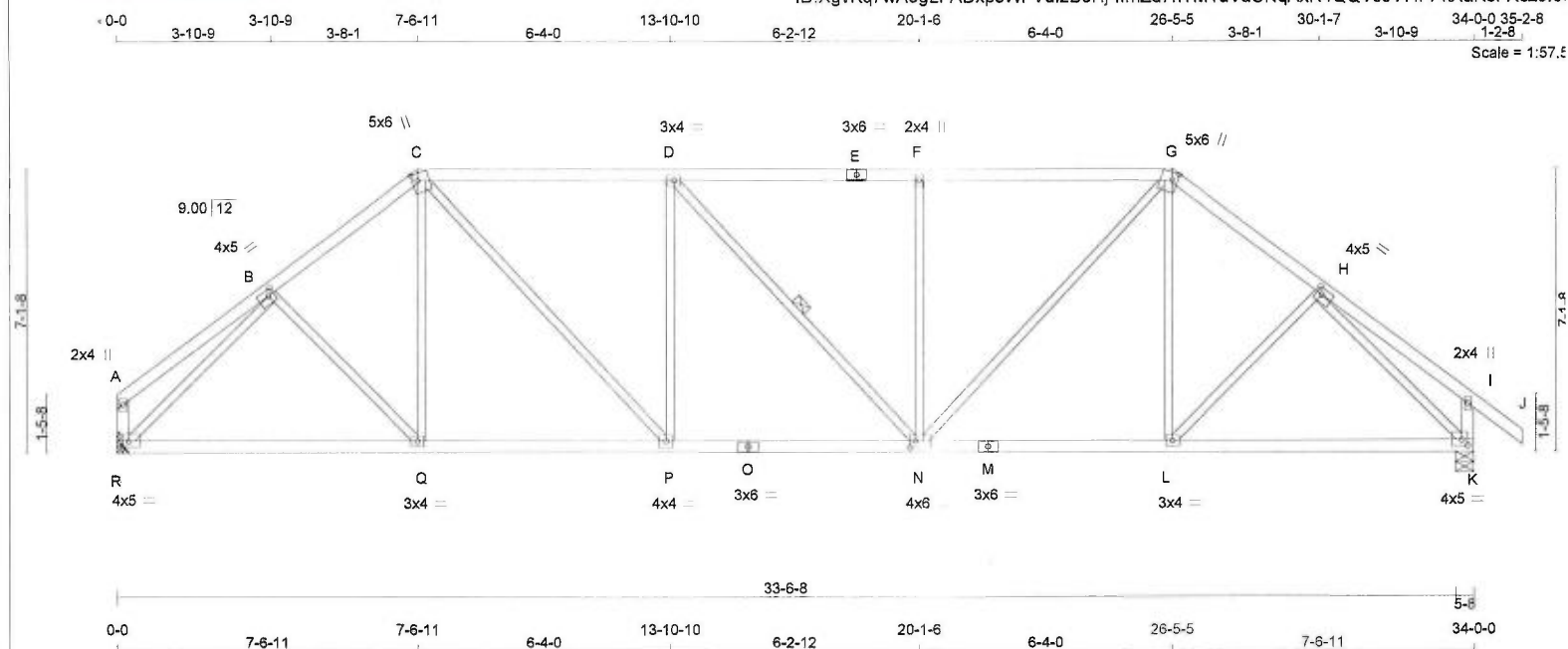




LUMBER N. L. G. A. RULES CHORDS SIZE LUMBER DESCR.			DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER										DESIGN CRITERIA		
A - B 2x4 DRY No.2 SPF			BEARINGS										SPECIFIED LOADS:		
B - F 2x4 DRY No.2 SPF			FACTORED MAXIMUM FACTORED INPUT REQD										TOP CH. LL = 23.3 PSF		
F - H 2x4 DRY No.2 SPF			GROSS REACTION GROSS REACTION BRG										DL = 3.0 PSF		
H - J 2x4 DRY No.2 SPF			JT VERT HORZ DOWN HORZ UPLIFT IN-SX IN-SX										BOT CH. LL = 0.0 PSF		
T - A 2x4 DRY No.2 SPF			T 1613 0 1613 0 0 5-8 5-8										DL = 7.0 PSF		
K - I 2x4 DRY No.2 SPF			K 1713 0 1713 0 0 5-8 5-8										TOTAL LOAD = 33.3 PSF		
T - P 2x4 DRY No.2 SPF			UNFACTORED REACTIONS										SPACING = 24.0 IN. C/C		
P - N 2x4 DRY No.2 SPF			1ST LCASE MAX./MIN. COMPONENT REACTIONS										LOADING IN FLAT SECTION BASED ON A		
N - K 2x4 DRY No.2 SPF			JT COMBINED SNOW LIVE PERM.LIVE WIND DEAD SOIL										SLOPE OF 2.00/12 MINIMUM		
ALL WEBS 2x3 DRY No.2 SPF			T 1132 792 / 0 0 / 0 0 / 0 0 / 0 340 / 0 0 / 0										THIS TRUSS IS DESIGNED FOR RESIDENTIAL		
EXCEPT			K 1200 852 / 0 0 / 0 0 / 0 0 / 0 348 / 0 0 / 0										OR SMALL BUILDING REQUIREMENTS OF		
DRY: SEASONED LUMBER.			BRACING										PART 9, NBCC 2010		
			TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.81 FT.										THIS DESIGN COMPLIES WITH:		
			MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR RIGID CEILING DIRECTLY APPLIED.										- PART 9 OF OBC 2012, BCBC 2012, ABC 2014		
			LOADING										- CSA 086-09		
			TOTAL LOAD CASES: (4)										- TPIC 2011		
			CHORDS										(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		
			MEMB. MAX. FACTORED FORCE (LBS) VERT. LOAD (PLF) CSI (LC) MAX. UNBRAC LENGTH FR-TO										ALLOWABLE DEFL.(LL)= L/360 (1.13")		
			FR-TO A-B -1774 / 0 -77.4 -77.4 0.42 (1) 4.58 S-B -222 / 13 0.09 (1)										CALCULATED VERT. DEFL.(LL)= L/ 999 (0.16")		
			B-C -2368 / 0 -77.4 -77.4 0.36 (1) 4.13 B-R 0 / 1340 0.30 (1)										ALLOWABLE DEFL.(TL)= L/360 (1.13")		
			C-D -2811 / 0 -77.4 -77.4 0.40 (1) 3.81 R-C -859 / 0 0.33 (1)										CALCULATED VERT. DEFL.(TL)= L/ 999 (0.29")		
			D-E -2810 / 0 -77.4 -77.4 0.32 (1) 3.90 C-Q 0 / 628 0.14 (1)										CSI: TC=0.42/1.00 (A-B:1), BC=0.49/1.00 (C-Q:1),		
			E-F -2810 / 0 -77.4 -77.4 0.40 (1) 3.81 Q-D -361 / 0 0.14 (1)										WB=0.33/1.00 (C-R:1), SS=0.18/1.00 (G-H:1)		
			F-G -2810 / 0 -77.4 -77.4 0.40 (1) 3.81 D-O -2 / 0 0.00 (1)										DOL LUMBER=1.00 NAIL=1.00 LS BEND=1.10		
			G-H -2368 / 0 -77.4 -77.4 0.36 (1) 4.13 O-E -360 / 0 0.14 (1)										COMP=1.10 SHEAR=1.10 TENS= 1.10		
			H-I -1774 / 0 -77.4 -77.4 0.42 (1) 4.58 O-G 0 / 626 0.14 (1)										COMPANION LIVE LOAD FACTOR = 0.50		
			I-J 0 / 30 -77.4 -77.4 0.09 (1) 10.00 M-G -859 / 0 0.33 (1)										TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT .		
			T-A -1577 / 0 0.0 0.0 0.16 (1) 6.57 M-H 0 / 1341 0.30 (1)										NAIL VALUES		
			K-I -1678 / 0 0.0 0.0 0.17 (1) 6.41 L-H -222 / 13 0.09 (1)										PLATE GRIP(DRY) SHEAR SECTION		
			T-S 0 / 0 -17.5 -17.5 0.10 (4) 10.00 L-I 0 / 1452 0.33 (1)										(PSI) (PLI) (PLI)		
			S-R 0 / 1412 -17.5 -17.5 0.28 (1) 10.00										MAX MIN MAX MIN MAX MIN		
			R-Q 0 / 2368 -17.5 -17.5 0.42 (1) 10.00										MT20 618 354 1667 822 2284 1656		
			Q-P 0 / 2811 -17.5 -17.5 0.49 (1) 10.00										PLATE PLACEMENT TOL. = 0.250 inches		
			P-O 0 / 2811 -17.5 -17.5 0.49 (1) 10.00										PLATE ROTATION TOL. = 5.0 Deg.		
			O-N 0 / 2369 -17.5 -17.5 0.42 (1) 10.00										JSI GRIP= 0.90 (Q) (INPUT = 0.90)		
			N-M 0 / 2369 -17.5 -17.5 0.42 (1) 10.00										JSI METAL= 0.73 (P) (INPUT = 1.00)		
			M-L 0 / 1412 -17.5 -17.5 0.28 (1) 10.00												
			L-K 0 / 0 -17.5 -17.5 0.10 (4) 10.00												



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 - B		2x4	DRY	No.2	GROSS REACTION		GROSS REACTION		BRG		BRG		DL = 3.0 PSF				
B - E		2x4	DRY	No.2	JT	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX	BOT CH.		LL = 0.0 PSF		
E - G		2x4	DRY	No.2	Q	1613	0	1613	0	0	MECHANICAL		DL = 7.0 PSF				
G - I		2x4	DRY	No.2	J	1713	0	1713	0	0	5-8		TOTAL LOAD = 33.3 PSF				
Q - A		2x4	DRY	No.2	A SUITABLE MECHANICAL CONNECTION IS REQUIRED AT JOINT Q TO RESIST THE MAX FACTORED REACTIONS.												
J - H		2x4	DRY	No.2													
Q - N		2x4	DRY	No.2													
N - L		2x4	DRY	No.2													
L - J		2x4	DRY	No.2													
ALL WEBS EXCEPT				2x3 DRY No.2 SPF													
DRY: SEASONED LUMBER.																	
UNFACTORED REACTIONS																	
1ST LCASE		SNOW		MAX./MIN. COMPONENT REACTIONS													
JT COMBINED		LIVE		PERM.LIVE		WIND		DEAD		SOIL							
Q		1132		792 / 0		0 / 0		0 / 0		0 / 0		340 / 0		0 / 0			
J		1200		852 / 0		0 / 0		0 / 0		0 / 0		348 / 0		0 / 0			
BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) J																	
BRACING																	
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.02 FT.																	
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.																	
ALL PITCH BREAKS AND PERIMETER CORNER JOINTS MUST BE Laterally RESTRAINED.																	
LOADING																	
TOTAL LOAD CASES: (4)																	
CHORDS				WEBS													
MAX. FACTORED		FACTORED		MAX. FACTORED		MAX. FACTORED		MAX. FACTORED		MAX. FACTORED		MAX. FACTORED		MAX. FACTORED			
MEMB. FORCE		VERT. LOAD		LC1 MAX		MAX. UNBRAC		MEMB. FORCE		MAX		MEMB. FORCE		MAX			
(LBS)		(PLF)		CSI (LC)		UNBRAC		(LBS)		CSI (LC)		(LBS)		CSI (LC)			
FR-TO				FROM TO				LENGTH FR-TO									
A-B		-1783 / 0		-77.4		-77.4		0.73 (1)		4.21		P-B		-136 / 57			
B-C		-2163 / 0		-77.4		-77.4		0.44 (1)		4.20		B-O		0 / 1085			
C-D		-2380 / 0		-77.4		-77.4		0.45 (1)		4.02		O-C		-706 / 0			
D-E		-2380 / 0		-77.4		-77.4		0.45 (1)		4.02		C-M		0 / 322			
E-F		-2380 / 0		-77.4		-77.4		0.45 (1)		4.02		M-D		-380 / 0			
F-G		-2163 / 0		-77.4		-77.4		0.44 (1)		4.20		M-F		0 / 322			
G-H		-1783 / 0		-77.4		-77.4		0.73 (1)		4.21		L-F		-706 / 0			
H-I		0 / 30		-77.4		-77.4		0.09 (1)		10.00		L-G		0 / 1085			
Q-A		-1567 / 0		0.0		0.0		0.16 (1)		6.58		K-G		-136 / 57			
J-H		-1668 / 0		0.0		0.0		0.17 (1)		6.42		A-P		0 / 1447			
												K-H		0 / 1447			
Q-P		0 / 0		-17.5		-17.5		0.16 (4)		10.00							
P-O		0 / 1422		-17.5		-17.5		0.31 (1)		10.00							
O-N		0 / 2163		-17.5		-17.5		0.39 (1)		10.00							
N-M		0 / 2163		-17.5		-17.5		0.39 (1)		10.00							
M-L		0 / 2163		-17.5		-17.5		0.39 (1)		10.00							
L-K		0 / 1422		-17.5		-17.5		0.31 (1)		10.00							
K-J		0 / 0		-17.5		-17.5		0.16 (4)		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.																	
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 = 24.0 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 (1.13")																	
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.13")																	
ALLOWABLE DEFL.(TL)= L/360 (1.13")																	
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.22")																	
CSI: TC=0.73/1.00 (A-B:1), BC=0.39/1.00 (M-O:1), WB=0.42/1.00 (C-O:1), SSI=0.20/1.00 (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)																	
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 (L) (INPUT = 0.90)																	
JSI METAL= 0.56 (N) (INPUT = 1.00)																	



TOTAL WEIGHT = 2 X 146 = 292 lb [M]

LUMBER				N. L. G. A. RULES	
CHORDS	SIZE	LUMBER	DESCR.	SPF	SPF
A - C	2x4	DRY	No.2	SPF	SPF
C - E	2x4	DRY	No.2	SPF	SPF
E - G	2x4	DRY	No.2	SPF	SPF
G - J	2x4	DRY	No.2	SPF	SPF
R - A	2x4	DRY	No.2	SPF	SPF
K - I	2x4	DRY	No.2	SPF	SPF
R - O	2x4	DRY	No.2	SPF	SPF
O - M	2x4	DRY	No.2	SPF	SPF
M - K	2x4	DRY	No.2	SPF	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	TMV+p	MT20	2.0	4.0	
B	TMWW-t	MT20	4.0	5.0	1.75 1.75
C	TTWW+m	MT20	5.0	6.0	2.25 1.50
D	TMWW-t	MT20	3.0	4.0	
E	TS-t	MT20	3.0	6.0	
F	TMWW+w	MT20	2.0	4.0	
G	TTWW+m	MT20	5.0	6.0	2.25 1.50
H	TMWW-t	MT20	4.0	5.0	1.75 1.75
I	TMV+p	MT20	2.0	4.0	
K	BMVW1-t	MT20	4.0	5.0	1.75 1.75
L	BMVW1-t	MT20	3.0	4.0	
M	BS-t	MT20	3.0	6.0	
N	BMVW1-t	MT20	4.0	6.0	2.00 1.50
O	BS-t	MT20	3.0	6.0	
P	BMVW1-t	MT20	4.0	4.0	
Q	BMVW1-t	MT20	3.0	4.0	
R	BMVW1-t	MT20	4.0	5.0	1.75 1.75

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

FACTORED		MAXIMUM FACTORED		INPUT		REQD	
GROSS REACTION		GROSS REACTION		BRG		BRG	
JT	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX
R	1613	0	1613	0	0	MECHANICAL	MECHANICAL
K	1713	0	1713	0	0	5-8	5-8

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

UNFACTORED REACTIONS

1ST LCASE		MAX./MIN.		COMPONENT REACTIONS			
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
R	1132	792 / 0	0 / 0	0 / 0	0 / 0	340 / 0	0 / 0
K	1200	852 / 0	0 / 0	0 / 0	0 / 0	348 / 0	0 / 0

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.21 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-N. DBS = 20-0-0. CBF = 0 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)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. FACTORED CSI (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. FACTORED CSI (LC)	
FR-TO		FROM TO		FR-TO			
A-B	0 / 19	-77.4 -77.4 0.16 (1)	10.00	B-Q	0 / 62	0.02 (4)	
B-C	-1777 / 0	-77.4 -77.4 0.21 (1)	4.82	Q-C	0 / 115	0.04 (4)	
C-D	-1989 / 0	-77.4 -77.4 0.56 (1)	4.21	C-P	0 / 858	0.19 (1)	
D-E	-1988 / 0	-77.4 -77.4 0.55 (1)	4.21	P-D	-526 / 0	0.46 (1)	
E-F	-1988 / 0	-77.4 -77.4 0.55 (1)	4.21	D-N	-2 / 0	0.00 (1)	
F-G	-1987 / 0	-77.4 -77.4 0.55 (1)	4.22	N-F	-526 / 0	0.46 (1)	
G-H	-1777 / 0	-77.4 -77.4 0.21 (1)	4.82	N-G	0 / 856	0.19 (1)	
H-I	0 / 19	-77.4 -77.4 0.16 (1)	10.00	L-G	0 / 115	0.04 (4)	
I-J	0 / 30	-77.4 -77.4 0.09 (1)	10.00	L-H	0 / 62	0.02 (4)	
R-A	-114 / 0	0.0 0.0 0.01 (1)	7.81	R-B	-1992 / 0	0.96 (1)	
K-I	-215 / 0	0.0 0.0 0.02 (1)	7.81	H-K	-1992 / 0	0.96 (1)	
R-Q	0 / 1374	-17.5 -17.5 0.35 (1)	10.00				
Q-P	0 / 1405	-17.5 -17.5 0.35 (1)	10.00				
P-O	0 / 1989	-17.5 -17.5 0.38 (1)	10.00				
O-N	0 / 1989	-17.5 -17.5 0.38 (1)	10.00				
N-M	0 / 1405	-17.5 -17.5 0.35 (1)	10.00				
M-L	0 / 1405	-17.5 -17.5 0.35 (1)	10.00				
L-K	0 / 1374	-17.5 -17.5 0.35 (1)	10.00				

DESIGN CRITERIA

SPECIFIED LOADS:
TOP CH. LL = 23.3 PSF
DL = 3.0 PSF
BOT CH. LL = 0.0 PSF
DL = 7.0 PSF
TOTAL LOAD = 33.3 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 (1.13")
CALCULATED VERT. DEFL.(LL)= L/999 (0.10")
ALLOWABLE DEFL.(TL)= L/360 (1.13")
CALCULATED VERT. DEFL.(TL)= L/999 (0.20")

CSI: TC=0.56/1.00 (C-D:1), BC=0.38/1.00 (N-P:1), WB=0.96/1.00 (H-K:1), SSI=0.23/1.00 (C-D:1)

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

COMPANION LIVE LOAD FACTOR = 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

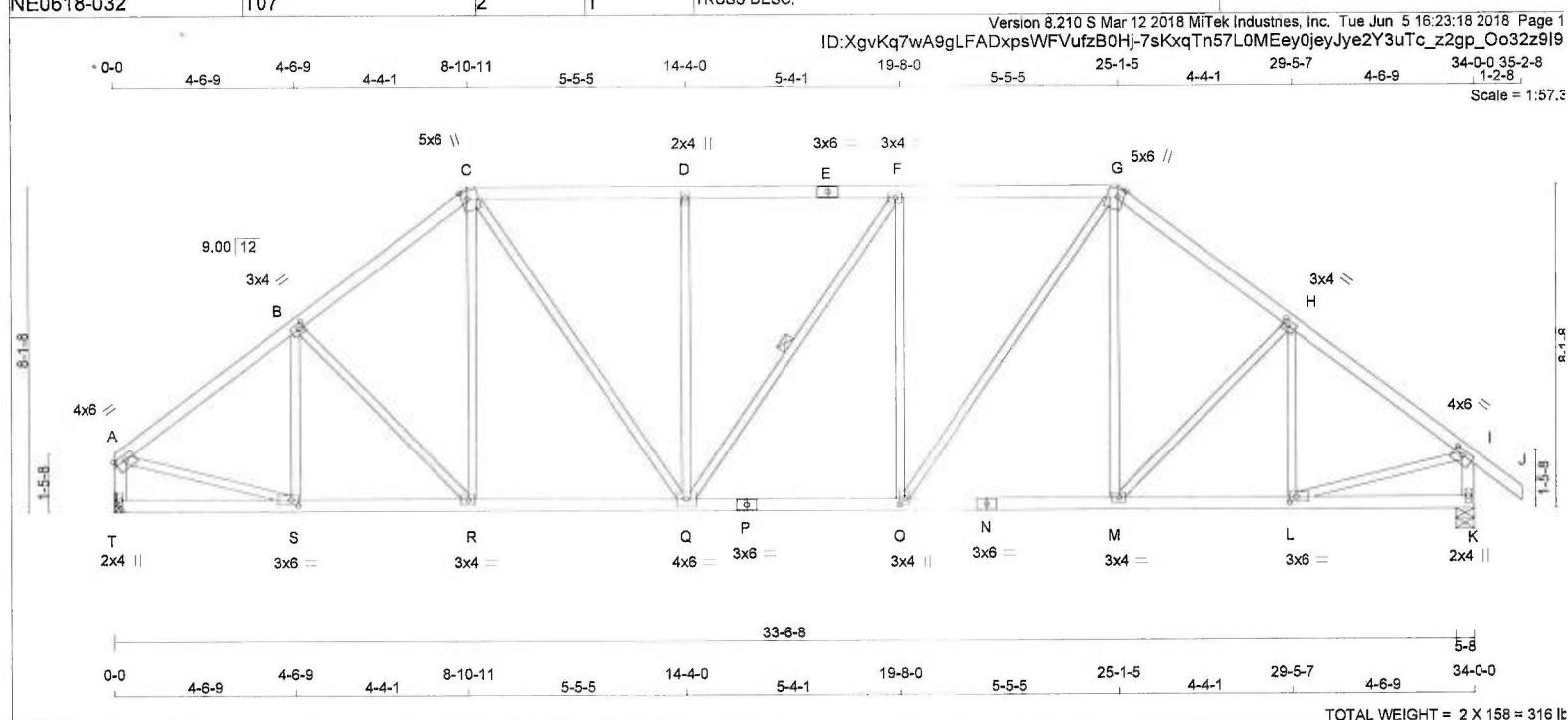
PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.89 (H) (INPUT = 0.90)
JSI METAL= 0.59 (H) (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.	SPF	
A - C	2x4	DRY	No.2	SPF		
C - E	2x4	DRY	No.2	SPF		
E - G	2x4	DRY	No.2	SPF		
G - J	2x4	DRY	No.2	SPF		
T - A	2x4	DRY	No.2	SPF		
K - I	2x4	DRY	No.2	SPF		
T - P	2x4	DRY	No.2	SPF		
P - N	2x4	DRY	No.2	SPF		
N - K	2x4	DRY	No.2	SPF		

ALL WEBS 2x3 DRY No.2 SPF
EXCEPT

DRY: SEASONED LUMBER.

PLATES (table is in inches)						
JT	TYPE	PLATES	W	LEN	Y	X
A	TMVW-t	MT20	4.0	6.0	1.50	Edge
B	TMVW-t	MT20	3.0	4.0	1.50	1.50
C	TTVW+m	MT20	5.0	6.0	2.25	1.75
D	TMVW-t	MT20	2.0	4.0		
E	TS-t	MT20	3.0	6.0		
F	TMVW-t	MT20	3.0	4.0		
G	TTVW+m	MT20	5.0	6.0	2.25	1.75
H	TMVW-t	MT20	3.0	4.0	1.50	1.50
I	TMVW-t	MT20	4.0	6.0	1.50	2.75
K	BMV1+p	MT20	2.0	4.0		
L	BMVW-t	MT20	3.0	6.0	1.50	2.00
M	BMVW-t	MT20	3.0	4.0		
N	BS-t	MT20	3.0	6.0		
O	BMVW-t	MT20	3.0	4.0	1.75	1.50
P	BS-t	MT20	3.0	6.0		
Q	BMVW-t	MT20	4.0	6.0		
R	BMVW-t	MT20	3.0	4.0		
S	BMVW-t	MT20	3.0	6.0	1.50	2.00
T	BMV1+p	MT20	2.0	4.0		

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

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
FACTORED GROSS REACTION
MAXIMUM FACTORED GROSS REACTION
INPUT BRG
REQRD BRG
JT VERT HORZ DOWN HORZ UPLIFT IN-SX IN-SX
T 1613 0 1613 0 0 0 MECHANICAL
K 1713 0 1713 0 0 5-8 MECHANICAL
A SUITABLE MECHANICAL CONNECTION IS REQUIRED AT JOINT T TO RESIST THE MAX FACTORED REACTIONS.

UNFACTORED REACTIONS							
JT	1ST CASE COMBINED	MAX. SNOW	MIN. LIVE	PERM. LIVE	WIND	DEAD	SOIL
T	1132	792 / 0	0 / 0	0 / 0	0 / 0	340 / 0	0 / 0
K	1200	852 / 0	0 / 0	0 / 0	0 / 0	348 / 0	0 / 0

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

BRACING
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.77 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 F-Q. DBS = 20-0-0, CBF = 0 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.

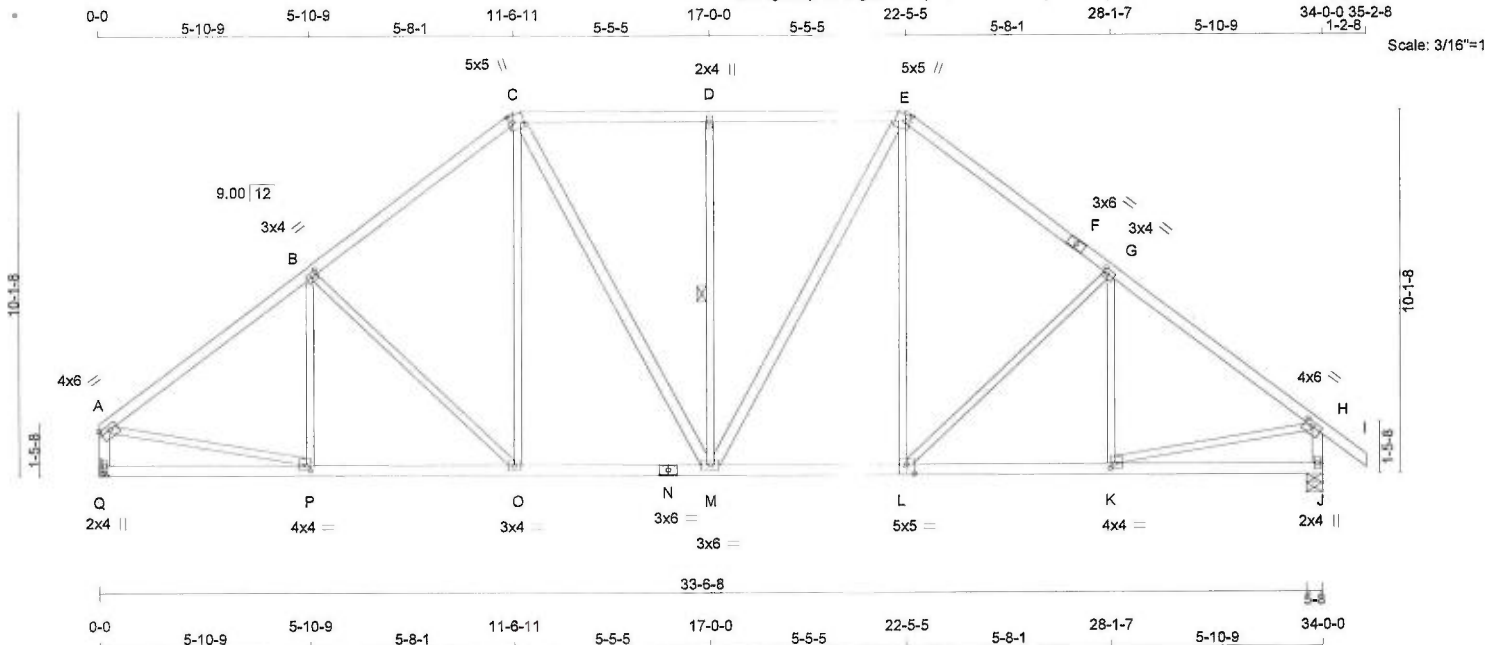
END VERTICAL(S) MUST BE SHEATHED OR HAVE BRACES AS INDICATED IN THE MAX. UNBRACED LENGTH COLUMN OF THE TABLE BELOW

CHORDS					WEBS				
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX LC1 (LC)	MAX UNBRAC LENGTH	MEMB.	MAX. FACTORED FORCE (LBS)	MAX LC1 (LC)	MAX UNBRAC LENGTH	
FR-TO		FROM	TO		FR-TO				
A-B	-1780 / 0	-77.4	-77.4	0.24 (1)	4.80	S-B	-279 / 0	0.10 (1)	
B-C	-1725 / 0	-77.4	-77.4	0.23 (1)	4.86	B-R	-121 / 0	0.09 (1)	
C-D	-1738 / 0	-77.4	-77.4	0.30 (1)	4.77	R-C	0 / 177	0.04 (4)	
D-E	-1738 / 0	-77.4	-77.4	0.28 (1)	4.80	C-Q	0 / 662	0.15 (1)	
E-F	-1738 / 0	-77.4	-77.4	0.28 (1)	4.80	Q-D	-450 / 0	0.57 (1)	
F-G	-1740 / 0	-77.4	-77.4	0.30 (1)	4.77	Q-F	-2 / 0	0.00 (1)	
G-H	-1725 / 0	-77.4	-77.4	0.23 (1)	4.86	O-F	-450 / 0	0.57 (1)	
H-I	-1780 / 0	-77.4	-77.4	0.24 (1)	4.80	O-G	0 / 665	0.15 (1)	
I-J	0 / 30	-77.4	-77.4	0.09 (1)	10.00	M-G	0 / 175	0.04 (4)	
T-A	-1577 / 0	0.0	0.0	0.16 (1)	6.57	M-H	-121 / 0	0.09 (1)	
K-I	-1677 / 0	0.0	0.0	0.17 (1)	6.41	L-H	-279 / 0	0.10 (1)	
						A-S	0 / 1486	0.33 (1)	
						L-I	0 / 1486	0.33 (1)	
T-S	0 / 0	-17.5	-17.5	0.07 (4)	10.00				
S-R	0 / 1442	-17.5	-17.5	0.28 (1)	10.00				
R-Q	0 / 1360	-17.5	-17.5	0.27 (1)	10.00				
Q-P	0 / 1740	-17.5	-17.5	0.33 (1)	10.00				
P-O	0 / 1740	-17.5	-17.5	0.33 (1)	10.00				
O-N	0 / 1380	-17.5	-17.5	0.27 (1)	10.00				
N-M	0 / 1360	-17.5	-17.5	0.27 (1)	10.00				
M-L	0 / 1443	-17.5	-17.5	0.28 (1)	10.00				
L-K	0 / 0	-17.5	-17.5	0.07 (4)	10.00				

DESIGN CRITERIA
SPECIFIED LOADS:
TOP CH. LL = 23.3 PSF
DL = 3.0 PSF
BOT CH. LL = 0.0 PSF
DL = 7.0 PSF
TOTAL LOAD = 33.3 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 (1.13")
CALCULATED VERT. DEFL.(LL) = L/999 (0.08")
ALLOWABLE DEFL.(TL)= L/360 (1.13")
CALCULATED VERT. DEFL.(TL) = L/999 (0.15")
CSI: TC=0.30/1.00 (F-G:1), BC=0.33/1.00 (O-Q:1), WB=0.57/1.00 (F-O:1), SSI=0.20/1.00 (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)
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 (K) (INPUT = 0.90)
JSI METAL= 0.49 (I) (INPUT = 1.00)

CONTINUED ON PAGE 2

Version 8.210 S Mar 12 2018 MiTek Industries, Inc. Tue Jun 5 16:23:19 2018 Page 1
ID:XgvKq7wA9gLFADxpsWfVufzB0Hj-b2uJ2pojue8DsoXDHMTYVrbhyIqFjShp2e7McUz919



TOTAL WEIGHT = 2 X 167 = 334 lb
[M][F]

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

DRY: SEASONED LUMBER.

PLATES (table is in inches)						
JT	TYPE	PLATES	W	LEN	Y	X
A	TMVW-t	MT20	4.0	6.0	1.50	Edge
B	TMVW-t	MT20	3.0	4.0	1.50	1.50
C	TTWW+m	MT20	5.0	5.0	2.25	1.50
D	TMVW-t	MT20	2.0	4.0		
E	TTWW+m	MT20	5.0	5.0	2.25	1.50
F	TS-t	MT20	3.0	6.0		
G	TMVW-t	MT20	3.0	4.0	1.50	1.50
H	TMVW-t	MT20	4.0	6.0	1.50	2.75
J	BMV1+p	MT20	2.0	4.0		
K	BMVW-t	MT20	4.0	4.0	1.50	1.50
L	BSVW-t	MT20	5.0	5.0	3.00	2.50
M	BMVW-t	MT20	3.0	6.0		
N	BS-t	MT20	3.0	6.0		
O	BMVW-t	MT20	3.0	4.0		
P	BMVW-t	MT20	4.0	4.0	1.50	1.50
Q	BMV1+p	MT20	2.0	4.0		

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

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

FACTORED		MAXIMUM FACTORED		INPUT		REQRD	
GROSS REACTION		GROSS REACTION		BRG		BRG	
JT	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX
Q	1613	0	1613	0	0	MECHANICAL	5-8
J	1713	0	1713	0	0	5-8	5-8

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

UNFACTORED REACTIONS

1ST CASE		MAX/MIN. COMPONENT REACTIONS					
JT	COMBINED	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
Q	1132	782 / 0	0 / 0	0 / 0	0 / 0	340 / 0	0 / 0
J	1200	852 / 0	0 / 0	0 / 0	0 / 0	348 / 0	0 / 0

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.57 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. DBS = 20-0-0. CBF = 64 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)

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	-1819 / 0	-77.4 -77.4	0.42 (1)	4.57	P-B	-172 / 46	0.09 (1)
B-C	-1604 / 0	-77.4 -77.4	0.39 (1)	4.82	B-O	-313 / 0	0.42 (1)
C-D	-1426 / 0	-77.4 -77.4	0.32 (1)	5.11	O-C	0 / 313	0.07 (1)
D-E	-1426 / 0	-77.4 -77.4	0.32 (1)	5.11	C-M	0 / 346	0.06 (1)
E-F	-1604 / 0	-77.4 -77.4	0.39 (1)	4.82	M-D	-513 / 0	0.36 (1)
F-G	-1604 / 0	-77.4 -77.4	0.39 (1)	4.82	M-E	0 / 346	0.06 (1)
G-H	-1819 / 0	-77.4 -77.4	0.42 (1)	4.57	L-E	0 / 313	0.07 (1)
H-I	0 / 30	-77.4 -77.4	0.09 (1)	10.00	L-G	-314 / 0	0.42 (1)
Q-A	-1570 / 0	0.0 0.0	0.16 (1)	6.58	K-G	-173 / 46	0.09 (1)
J-H	-1670 / 0	0.0 0.0	0.17 (1)	6.42	A-P	0 / 1508	0.34 (1)
					K-H	0 / 1508	0.34 (1)
Q-P	0 / 0	-17.5 -17.5	0.14 (4)	10.00			
P-O	0 / 1481	-17.5 -17.5	0.31 (1)	10.00			
O-N	0 / 1258	-17.5 -17.5	0.26 (1)	10.00			
N-M	0 / 1258	-17.5 -17.5	0.26 (1)	10.00			
M-L	0 / 1258	-17.5 -17.5	0.26 (1)	10.00			
L-K	0 / 1481	-17.5 -17.5	0.31 (1)	10.00			
K-J	0 / 0	-17.5 -17.5	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 = 7.0 PSF
TOTAL LOAD = 33.3 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 (1.13")
CALCULATED VERT. DEFL.(LL) = L/999 (0.07")
ALLOWABLE DEFL.(TL)= L/360 (1.13")
CALCULATED VERT. DEFL.(TL) = L/999 (0.13")

CSI: TC=0.42/1.00 (G-H:1) , BC=0.31/1.00 (O-P:1) , WB=0.42/1.00 (G-L:1) , SS=0.20/1.00 (C-D:1)

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

COMPANION LIVE LOAD FACTOR = 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

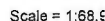
PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.89 (K) (INPUT = 0.90)
JSI METAL= 0.55 (K) (INPUT = 1.00)

CONTINUED ON PAGE 2





[MIF]

CONTINUED ON PAGE 2

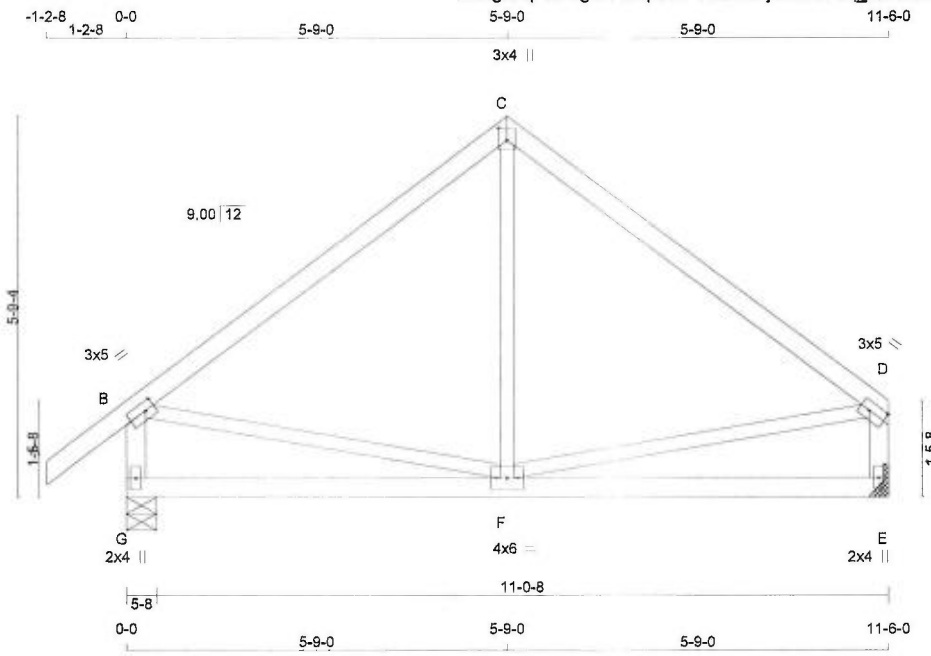
CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	LC1 MAX CSI (LC)	MAX. UNBRAC LENGTH	MEMB.	MAX. FACTORED FORCE (LBS)	MAX CSI (LC)
FR-TO		FROM TO			FR-TO		
A-B	-1865 / 0	-77.4	-77.4 0.54 (1)	4.37	R-B	-134 / 65	0.09 (1)
B-C	-1576 / 0	-77.4	-77.4 0.49 (1)	4.72	B-Q	-398 / 0	0.21 (1)
C-D	-1576 / 0	-77.4	-77.4 0.49 (1)	4.72	Q-D	0 / 367	0.06 (1)
D-E	-1324 / 0	-84.9	-84.9 0.20 (1)	2.00	D-O	0 / 253	0.04 (1)
E-F	-1324 / 0	-84.9	-84.9 0.20 (1)	2.00	O-E	-418 / 0	0.27 (1)
F-G	-1576 / 0	-77.4	-77.4 0.49 (1)	4.72	O-F	0 / 253	0.04 (1)
G-H	-1576 / 0	-77.4	-77.4 0.49 (1)	4.72	N-F	0 / 367	0.06 (1)
H-I	-1865 / 0	-77.4	-77.4 0.54 (1)	4.37	N-H	-398 / 0	0.21 (1)
I-J	0 / 30	-77.4	-77.4 0.09 (1)	10.00	L-H	-134 / 65	0.09 (1)
S-A	-1597 / 0	0.0	0.0 0.17 (1)	6.54	A-R	0 / 1544	0.35 (1)
K-I	-1697 / 0	0.0	0.0 0.18 (1)	6.38	L-I	0 / 1544	0.35 (1)
S-R	0 / 0	-17.5	-17.5 0.18 (4)	10.00			
R-Q	0 / 1521	-17.5	-17.5 0.34 (1)	10.00			
Q-P	0 / 1235	-17.5	-17.5 0.26 (1)	10.00			
P-O	0 / 1235	-17.5	-17.5 0.26 (1)	10.00			
O-N	0 / 1235	-17.5	-17.5 0.26 (1)	10.00			
N-M	0 / 1521	-17.5	-17.5 0.34 (1)	10.00			
M-L	0 / 1521	-17.5	-17.5 0.34 (1)	10.00			
L-K	0 / 0	-17.5	-17.5 0.18 (4)	10.00			



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

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 = 1:34.6

TOTAL WEIGHT = 4 X 47 = 188 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 SPF
EXCEPT

DRY: SEASONED LUMBER.

PLATES (table is in inches)						
JT TYPE	PLATES	W	LEN	Y	X	
B	TMVW-t	MT20	3.0	5.0	1.50	1.75
C	TTW+p	MT20	3.0	4.0	2.25	1.50
D	TMVW-t	MT20	3.0	5.0	1.50	Edge
E	BMV1+p	MT20	2.0	4.0		
F	BMVWW-t	MT20	4.0	6.0		
G	BMV1+p	MT20	2.0	4.0		

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

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

BEARINGS		FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG		REQRD BRG	
JT		VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX	
G		646	0	646	0	0	5-8	5-8	
E		545	0	545	0	0	MECHANICAL		

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

UNFACTORED REACTIONS

JT	1ST LCASE	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
G		451	328 / 0	0 / 0	0 / 0	0 / 0	123 / 0	0 / 0
E		383	268 / 0	0 / 0	0 / 0	0 / 0	115 / 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)	VERT. LOAD (PLF)	MAX LC1 (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX UNBRACED LENGTH (LC)	MAX LC1 (LC)
FR-TO		FROM TO		FR-TO			
A-B	0 / 30	-77.4	-77.4 0.09 (1)	10.00	F-C	0 / 101	0.03 (4)
B-C	-376 / 0	-77.4	-77.4 0.33 (1)	6.25	B-F	0 / 306	0.07 (1)
C-D	-376 / 0	-77.4	-77.4 0.33 (1)	6.25	F-D	0 / 306	0.07 (1)
G-B	-607 / 0	0.0	0.0 0.06 (1)	7.81			
E-D	-507 / 0	0.0	0.0 0.05 (1)	7.81			
G-F	0 / 0	-17.5	-17.5 0.17 (4)	10.00			
F-E	0 / 0	-17.5	-17.5 0.17 (4)	10.00			

DESIGN CRITERIA

SPECIFIED LOADS:
TOP CH. LL = 23.3 PSF
DL = 3.0 PSF
BOT CH. LL = 0.0 PSF
DL = 7.0 PSF
TOTAL LOAD = 33.3 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 (0.38")
CALCULATED VERT. DEFL.(LL) = L/999 (0.00")
ALLOWABLE DEFL.(TL)= L/360 (0.38")
CALCULATED VERT. DEFL.(TL) = L/999 (0.03")

CSI: TC=0.33/1.00 (B-C:1), BC=0.17/1.00 (E-F:4), WB=0.07/1.00 (B-F:1), SSI=0.14/1.00 (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
MT20	618	354	1667	822	2284 1656

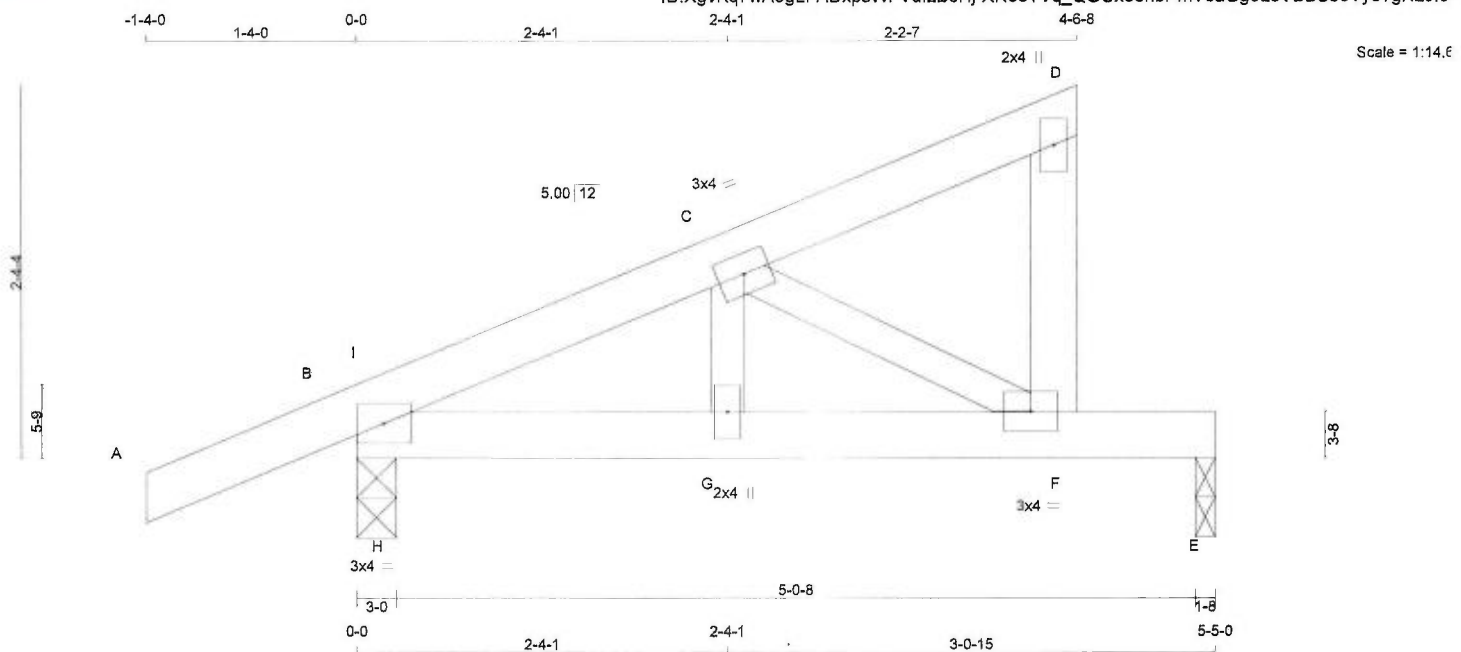
PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.51 (D) (INPUT = 0.90)
JSI METAL= 0.17 (D) (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 = $8 \times 18 = 143 \text{ lb}$

LUMBER

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

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

JT	FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION			INPUT BRG	REQRD BRG
	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX
B	359	0	359	0	0	3-0	3-0
E	195	0	195	0	0	1-8	1-8

UNFACTORED REACTIONS

JT	1ST LCASE COMBINED	MAX./MIN. COMPONENT REACTIONS					SOIL
		SNOW	LIVE	PERM.LIVE	WIND	DEAD	
B	250	188 / 0	0 / 0	0 / 0	0 / 0	62 / 0	0 / 0
E	138	89 / 0	0 / 0	0 / 0	0 / 0	49 / 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 = 6.25 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY
APPLIED.

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS					WEBS				
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	LC1 MAX CSI (LC)	MAX. UNBRAC LENGTH	MEMB.	MAX. FACTORED FORCE (LBS)	MAX CSI (LC)		
FR-TO		FROM TO			FR-TO				
A- B	0 / 16	-77.4	-77.4	0.10 (1)	10.00	G- C	0 / 144	0.03 (1)	
B- I	-399 / 0	-77.4	-77.4	0.04 (1)	6.25	C- F	-380 / 0	0.06 (1)	
I- C	-368 / 0	-77.4	-77.4	0.04 (1)	6.25	H- I	-8 / 26	0.00 (1)	
C- D	-4 / 0	-77.4	-77.4	0.05 (1)	10.00				
F- D	-76 / 0	0.0	0.0	0.01 (1)	7.81				
B- H	0 / 338	-17.5	-17.5	0.06 (1)	10.00				
H- G	0 / 338	-17.5	-17.5	0.10 (1)	10.00				
G- F	0 / 338	-17.5	-17.5	0.28 (1)	10.00				
F- E	0 / 0	-17.5	-17.5	0.22 (1)	10.00				

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH.	LL =	23.3	PSF
	DL =	3.0	PSF
BOT CH.	LL =	0.0	PSF
	DL =	7.0	PSF
TOTAL LOAD	=	33.3	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 (0.02")
ALLOWABLE DEFL.(TL)= L/360 (0.19")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.03")

CSI: TC=0.10/1.00 (A-B:1), BC=0.28/1.00 (F-G:1),
WB=0.06/1.00 (C-F:1), SS=0.15/1.00 (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)	
	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= 0.52 (F) (INPUT = 0.90)
JSI METAL= 0.13 (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.**



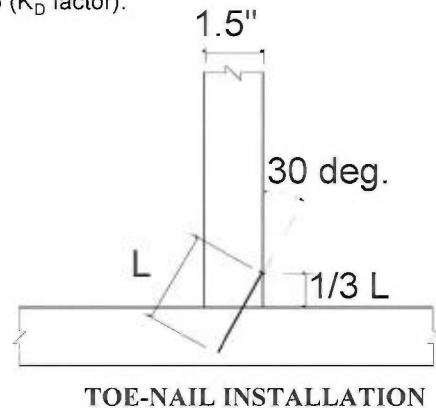
BEARING ANCHORAGE BY TOE-NAILS FOR LATERAL CAPACITY

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

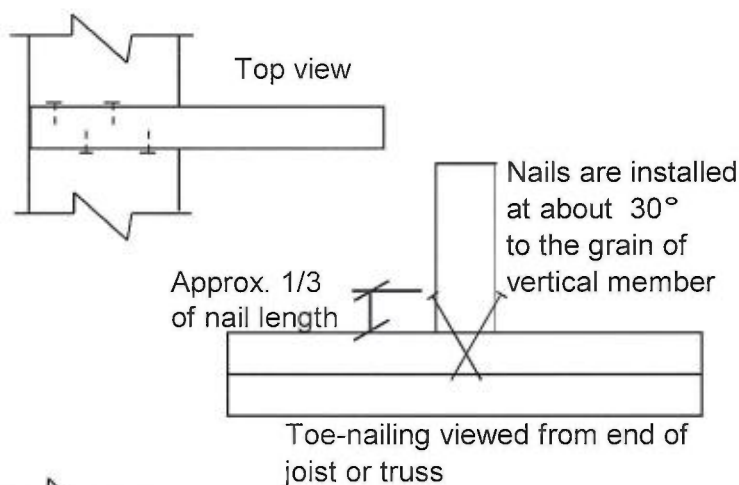
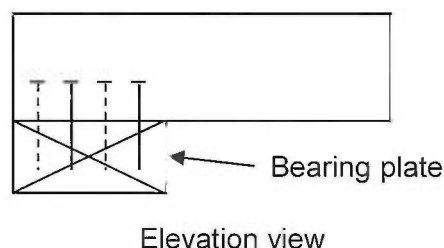
NAIL TYPE	LENGTH (IN)	DIAMETER (IN)	NAIL WITHDRAWAL CAPACITY (LB)	
			S-P-F	D. FIR
COMMON WIRE	3.00	0.144	30	42
	3.25	0.144	32	45
	3.50	0.160	38	52

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

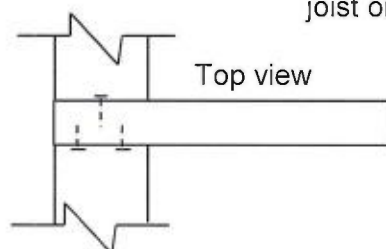
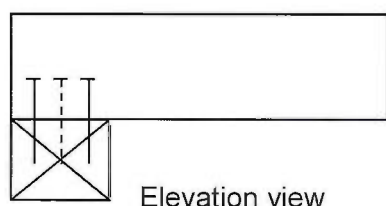
NOTES:

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

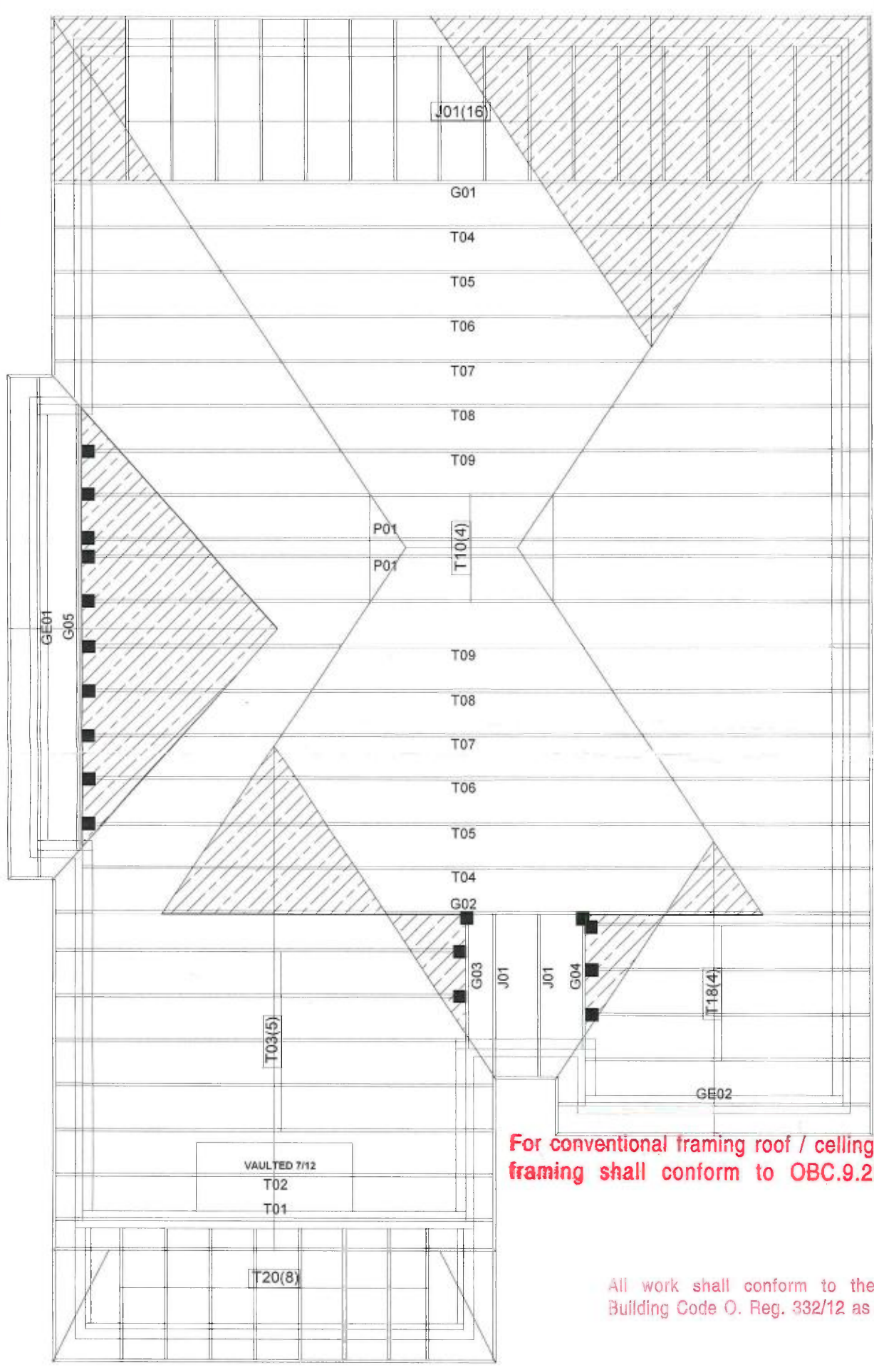
PEO
Certificate No. 10889485



April 26, 2017



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.



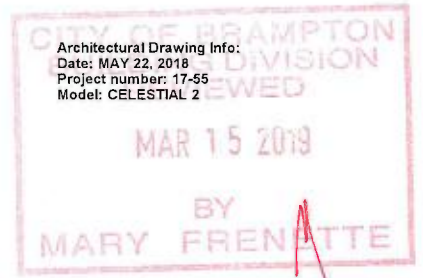
For conventional framing roof / ceilings framing shall conform to OBC.9.23

The components shown on this layout conform to our recommendations and are adequate to support the design loads required by the Ontario Building Code O.Reg 332/12 as amended and as shown on the engineering calculation page of each component.

The framing direction and girder locations shown on this layout conform to that shown on the architectural drawing.

Deflection: LL = L/360
1.33LL+DL=L/360

All work shall conform to the Ontario Building Code O. Reg. 332/12 as amended



CONVENTIONAL FRAMING BY OTHERS

ALL CONVENTIONAL FRAMING TO CONFORM WITH PART 9 OF THE O.B.C. ROOF RAFTERS THAT CROSS MEET OVER TRUSSES TO BE 2x4 S.P.F. @ 24" O/C WITH A 2x4 VERTICAL POST TO THE TRUSS UNDERNEATH EACH CROSS POINT. VERTICAL POST LONGER THAN 6' TO HAVE LATERAL BRACING SO THAT THE DISTANCE BETWEEN END POINT AND BETWEEN ROWS OF BRACING DOES NOT EXCEED 6'.

HANGER LEGEND:

▼ LUS24 ■ LJS26DS
● HGUS26 ✕ HGUS26-2

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

DESIGN CRITERIA

SPECIFIED LOADS:
TOP CH. LL = 23.3 PSF
DL = 3 PSF
BOT CH. LL = 0 PSF
DL = 7 PSF
TOTAL LOAD = 33.3 PSF

SPACING = 24" O/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

Model: **CELESTIAL 2 EL 1 4&5 BED**
Customer: **GREEN YORK HOMES**
Project: **GRANELLI HOMES**
Location: **BRAMPTON**
Date: 5/31/2018 Drawn by: BB