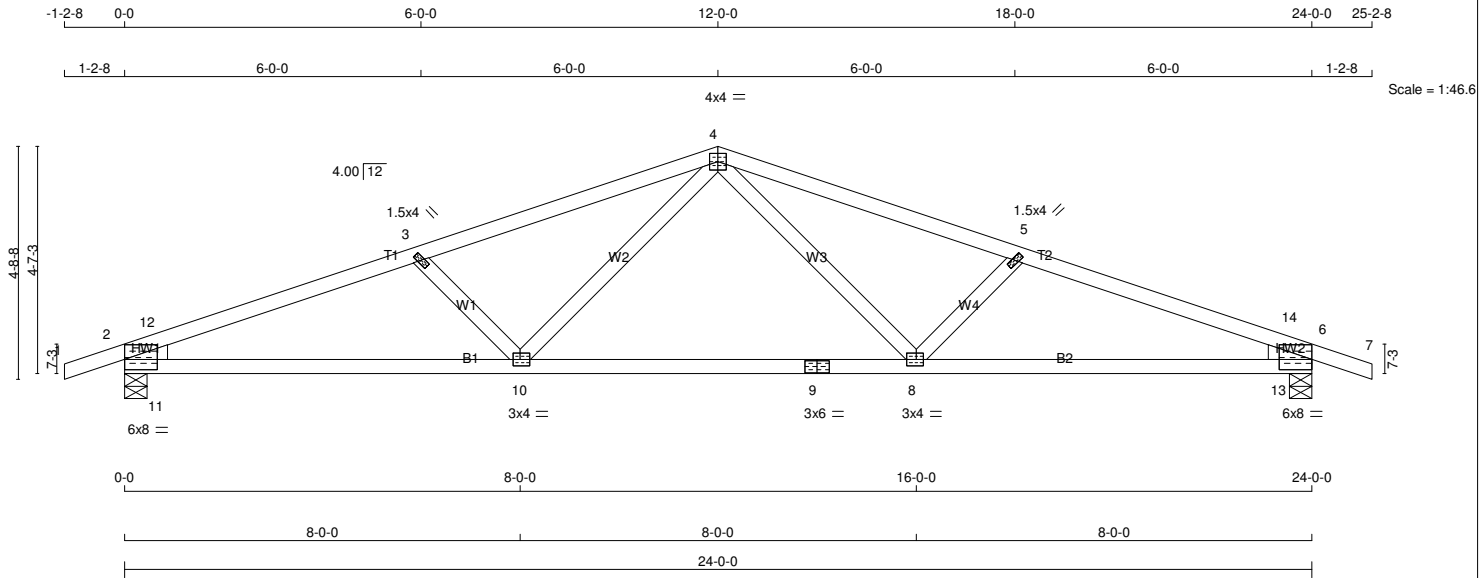


JOB NAME <b>J18-0884-B</b>	TRUSS NAME <b>A01</b>	QUANTITY <b>16</b>	PLY <b>1</b>	JOB DESC. TRUSS DESC.	DRWG NO.
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Structural Truss Systems, Fort Macleod, Brent Feyter

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TOTAL WEIGHT = 16 X 81 = 1294 lb

**LUMBER**

N. L. G. A. RULES

CHORDS	SIZE	DRY	LUMBER	DESCR.
1 - 4	2x4	DRY	No.2	SPF
4 - 7	2x4	DRY	No.2	SPF
2 - 9	2x4	DRY	No.2	SPF
9 - 6	2x4	DRY	No.2	SPF

ALL WEBS 2x4 DRY No.2 SPF  
 DRY: SEASONED LUMBER.

**PLATES (table is in inches)**

JT	TYPE	PLATES	W	LEN	Y	X
2	TMBMH1-I	MT20	6.0	8.0	2.50	
3	TMW+w	MT20	1.5	4.0		
4	TTWW-p	MT20	4.0	4.0		
5	TMW+w	MT20	1.5	4.0		
6	TMBMH1-I	MT20	6.0	8.0	2.50	
8	BMWW-t	MT20	3.0	4.0	1.50	1.75
9	BS-t	MT20	3.0	6.0		
10	BMWW-t	MT20	3.0	4.0	1.50	1.75

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

**BEARINGS**

JT	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	BRG	HEEL
2	1207	0	1207	0	0	5-8	5-8	2x4 L
6	1207	0	1207	0	0	5-8	5-8	2x4 R

**UNFACTORED REACTIONS**

JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
2	855	554 / 0	0 / 0	0 / 0	0 / 0	301 / 0	0 / 0
6	855	554 / 0	0 / 0	0 / 0	0 / 0	301 / 0	0 / 0

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) 2, 6

**BRACING**  
 TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.92 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)

C H O R D S				W E B S			
MEMB.	FORCE (LBS)	FACTORED VERT. LOAD (PLF)	FACTORED LC1 MAX (CSI (LC))	MEMB.	FORCE (LBS)	FACTORED MAX (CSI (LC))	UNBRAC LENGTH FR-TO
1-2	0 / 4	-75.2	-75.2 0.08 (1)	10.00	3-10	-455 / 0	0.07 (1)
2-12	-2607 / 0	-75.2	-75.2 0.37 (1)	3.92	10-4	0 / 621	0.10 (1)
12-3	-2384 / 0	-75.2	-75.2 0.39 (1)	4.10	4-8	0 / 621	0.10 (1)
3-4	-2068 / 0	-75.2	-75.2 0.43 (1)	4.29	8-5	-455 / 0	0.07 (1)
4-5	-2068 / 0	-75.2	-75.2 0.43 (1)	4.29	11-12	0 / 355	0.00 (1)
5-14	-2384 / 0	-75.2	-75.2 0.39 (1)	4.10	13-14	0 / 355	0.00 (1)
14-6	-2607 / 0	-75.2	-75.2 0.37 (1)	3.92			
6-7	0 / 4	-75.2	-75.2 0.08 (1)	10.00			
2-11	0 / 2256	-17.5	-17.5 0.60 (1)	10.00			
11-10	0 / 2256	-17.5	-17.5 0.60 (1)	10.00			
10-9	0 / 1530	-17.5	-17.5 0.38 (1)	10.00			
9-8	0 / 1530	-17.5	-17.5 0.38 (1)	10.00			
8-13	0 / 2256	-17.5	-17.5 0.60 (1)	10.00			
13-6	0 / 2256	-17.5	-17.5 0.60 (1)	10.00			

**DESIGN CRITERIA**

**SPECIFIED LOADS:**  
 TOP CH. LL = 20.9 PSF  
 DL = 5.0 PSF  
 BOT CH. LL = 0.0 PSF  
 DL = 7.0 PSF  
 TOTAL LOAD = 32.9 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 086-09  
 - TPIC 2011

(75 % OF 25.1 P.S.F. G.S.L. PLUS 2.1 P.S.F. RAIN LOAD)  
 EQUALS 20.9 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = L/360 (0.80")  
 CALCULATED VERT. DEFL.(LL) = L/999 (0.18")  
 ALLOWABLE DEFL.(TL) = L/360 (0.80")  
 CALCULATED VERT. DEFL.(TL) = L/796 (0.36")

CSI: TC=0.43/1.00 (3-4:1), BC=0.60/1.00 (2-11:1),  
 WB=0.10/1.00 (4-8:1), SSI=0.28/1.00 (2-12:1)

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)
MT20	618	354	1667
	822	2284	1656

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

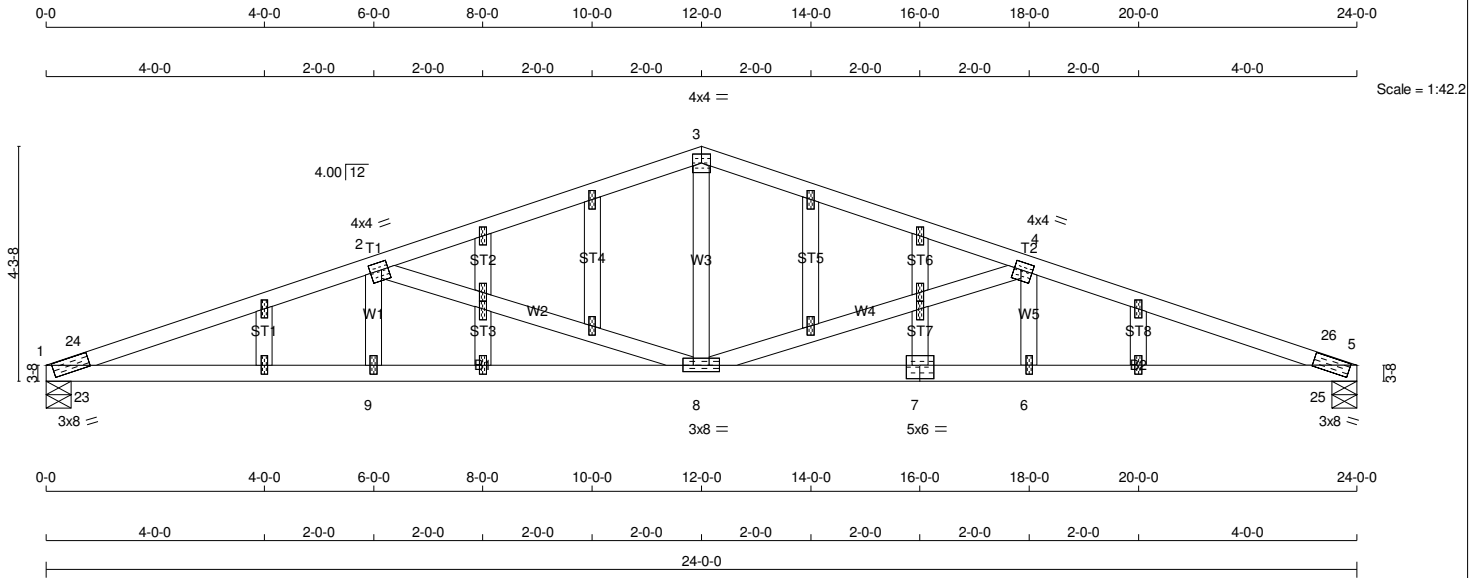
JSI GRIP= 0.88 (8) (INPUT = 0.90)  
 JSI METAL= 0.52 (9) (INPUT = 1.00)

JOB NAME <b>J18-0884-B</b>	TRUSS NAME <b>A02</b>	QUANTITY <b>1</b>	PLY <b>1</b>	JOB DESC. TRUSS DESC.	DRWG NO.
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Structural Truss Systems, Fort Macleod, Brent Feyter

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ID:v701iPCG4zT3V?AW3nU4nLz?i24-AF4r8bt1WaRp73KTMslwqqkKBwitca2dMUMHyruVl



TOTAL WEIGHT = 91 lb [M][F]

**LUMBER**

N. L. G. A. RULES

CHORDS	SIZE	LUMBER	DESCR.
1 - 3	2x4	DRY No.2	SPF
3 - 5	2x4	DRY No.2	SPF
1 - 7	2x4	DRY No.2	SPF
7 - 5	2x4	DRY No.2	SPF

ALL WEBS 2x4 DRY No.2 SPF

ALL GABLE WEBS 2x4 DRY No.2 SPF

DRY: SEASONED LUMBER.

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

**PLATES (table is in inches)**

JT	TYPE	PLATES	W	LEN	Y	X
1	TBM1-h	MT20	3.0	8.0		
2	TMWW-t	MT20	4.0	4.0	1.75	1.50
3	TTW-p	MT20	4.0	4.0		
4	TMWW-t	MT20	4.0	4.0	1.75	1.50
5	TBM1-h	MT20	3.0	8.0		
6	BMW-w	MT20	1.5	4.0		
7	BSW-l	MT20	5.0	6.0	3.00	3.00
8	BMWWW-t	MT20	3.0	8.0		
9	BMW+w	MT20	1.5	4.0		
10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22						
10	NP+w	MT20	1.5	4.0		
12	NP+w	MT20	1.5	4.0	1.75	0.75
20	NP+w	MT20	1.5	4.0	1.75	0.75

**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		
1	1112	0	1112	0	5-8	5-8
5	1112	0	1112	0	5-8	5-8

**UNFACTORED REACTIONS**

JT	1ST CASE		MAX/MIN COMPONENT REACTIONS		WIND	DEAD	SOIL
	COMBINED	SNOW	LIVE	PERM.LIVE			
1	790	502/0	0/0	0/0	0/0	288/0	0/0
5	790	502/0	0/0	0/0	0/0	288/0	0/0

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) 1, 5

**BRACING**  
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.81 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)

C H O R D S				W E B S			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	LC1 MAX (LO)	MAX. UNBRAC (LO)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. FACTORED CSI (LC)
FR-TO		FROM	TO	LENGTH	FR-TO		
1-24	-2817 / 0	-75.2	-75.2	0.11 (1)	4.08	9-2	0 / 127
24-2	-2794 / 0	-75.2	-75.2	0.41 (1)	3.81	8-3	0 / 762
2-3	-1791 / 0	-75.2	-75.2	0.37 (1)	4.63	6-4	0 / 127
3-4	-1791 / 0	-75.2	-75.2	0.37 (1)	4.63	2-8	-1035 / 0
4-26	-2794 / 0	-75.2	-75.2	0.41 (1)	3.81	8-4	-1035 / 0
26-5	-2817 / 0	-75.2	-75.2	0.11 (1)	4.08	23-24	-151 / 14
						25-26	-151 / 14
1-23	0 / 2667	-17.5	-17.5	0.59 (1)	10.00		
23-9	0 / 2667	-17.5	-17.5	0.60 (1)	10.00		
9-8	0 / 2667	-17.5	-17.5	0.50 (1)	10.00		
8-7	0 / 2668	-17.5	-17.5	0.50 (1)	10.00		
7-6	0 / 2668	-17.5	-17.5	0.50 (1)	10.00		
6-25	0 / 2668	-17.5	-17.5	0.60 (1)	10.00		
25-5	0 / 2668	-17.5	-17.5	0.59 (1)	10.00		

**DESIGN CRITERIA**

**SPECIFIED LOADS:**  
TOP CH. LL = 20.9 PSF  
DL = 5.0 PSF  
BOT CH. LL = 0.0 PSF  
DL = 7.0 PSF  
TOTAL LOAD = 32.9 PSF

**SPACING = 24.0 IN.CC**

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

(75% OF 25.1 P.S.F. G.S.L. PLUS 2.1 P.S.F. RAIN LOAD) EQUALS 20.9 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEF.(LL) = L/360 (0.80")  
CALCULATED VERT. DEF.(LL) = L/999 (0.14")  
ALLOWABLE DEF.(TL) = L/360 (0.80")  
CALCULATED VERT. DEF.(TL) = L/999 (0.28")

CSI: TC=0.41/1.00 (4-26:1), BC=0.60/1.00 (6-25:1), WB=0.52/1.00 (4-8:1), SSI=0.20/1.00 (2-3:1)

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.85 (7) (INPUT = 0.90)  
JSI METAL= 0.63 (1) (INPUT = 1.00)