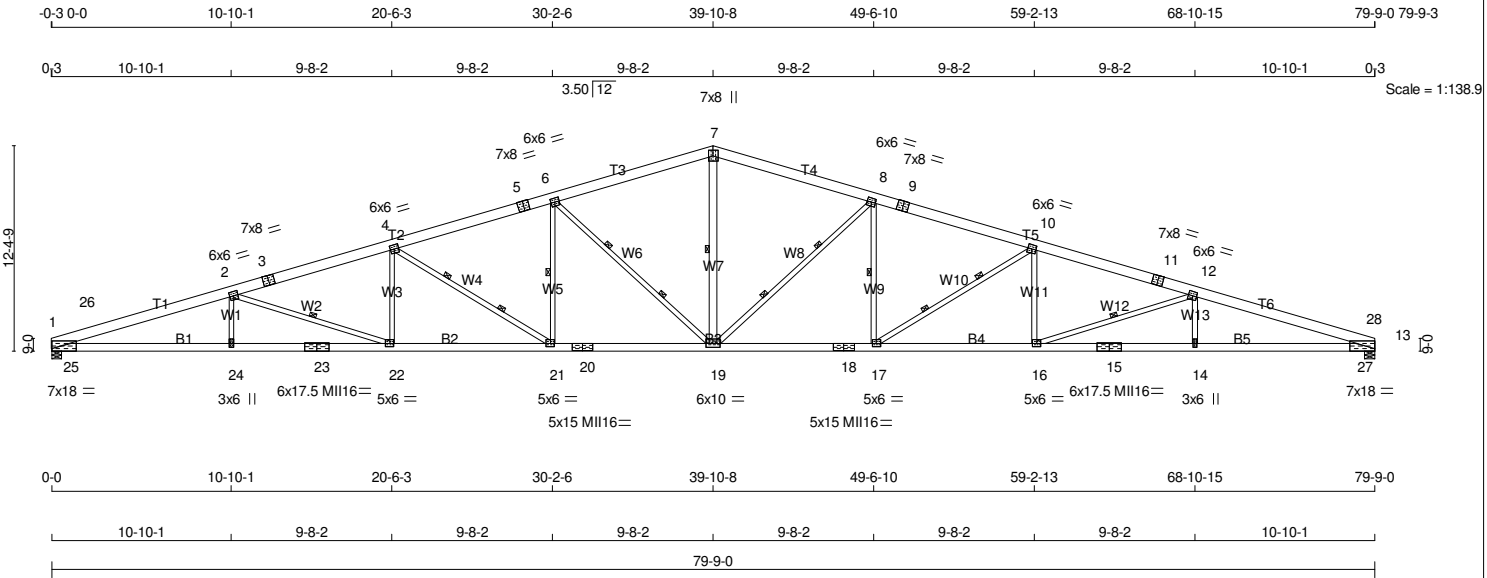


JOB NAME <b>J17-2804-A</b>	TRUSS NAME <b>C80</b>	QUANTITY <b>14</b>	PLY <b>2</b>	JOB DESC. TRUSS DESC.	DRWG NO.
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Structural Truss Systems, Fort Macleod, Brent Feyter

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TOTAL WEIGHT = 28 X 475 = 13310 lb

**LUMBER**

N. L. G. A. RULES

CHORDS	SIZE	LUMBER	DESCR.
1 - 3	2x8	DRY 1950F 1.7E	SPF
3 - 5	2x8	DRY 1950F 1.7E	SPF
5 - 7	2x8	DRY 1950F 1.7E	SPF
7 - 9	2x8	DRY 1950F 1.7E	SPF
9 - 11	2x8	DRY 1950F 1.7E	SPF
11 - 13	2x8	DRY 1950F 1.7E	SPF
1 - 2	2x6	DRY 2100F 1.8E	SPF
23 - 20	2x6	DRY 2100F 1.8E	SPF
20 - 18	2x6	DRY 2100F 1.8E	SPF
18 - 15	2x6	DRY 2100F 1.8E	SPF
15 - 13	2x6	DRY 2100F 1.8E	SPF

ALL WEBS EXCEPT

	SIZE	LUMBER	DESCR.
19 - 7	2x4	DRY No.2	SPF
6 - 19	2x4	DRY 2100F 1.8E	SPF
19 - 8	2x4	DRY 2100F 1.8E	SPF

DRY: SEASONED LUMBER.

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

CHORDS #ROWS	SURFACE SPACING (IN)	LOAD(PLF)
TOP CHORDS : (0.122"x3") SPIRAL NAILS		
1-3	2	12
3-5	2	12
5-7	2	12
7-9	2	12
9-11	2	12
11-13	2	12
BOTTOM CHORDS : (0.122"x3") SPIRAL NAILS		
1-23	2	12
23-20	2	12
20-18	2	12
18-15	2	12
15-13	2	12
WEBS : (0.122"x3") SPIRAL NAILS		
2x4	1	6
2x6	2	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 PLYS FOR THE LOAD TO BE TRANSFERRED TO EACH PLY.

**PLATES (table is in inches)**

JT TYPE	PLATES	W	LEN	Y	X
1	TMB1-I	MT20	7.0	18.0	Edge
2, 4, 6, 8, 10, 12					
2	TMMW-t	MT20	6.0	6.0	
3, 5, 9, 11					
3	TS-t	MT20	7.0	8.0	
7	TTW+p	MT20	7.0	8.0	
13	TMB1-I	MT20	7.0	18.0	Edge
14	BMW+w	MT20	3.0	6.0	
15	BS-t	MI16	6.0	17.5	
16, 17, 21, 22					
16	BMWW-t	MT20	5.0	6.0	
18	BS-t	MI16	5.0	15.0	
19	BMWW-t	MT20	6.0	10.0 2.75 5.00	
20	BS-t	MI16	5.0	15.0	
23	BS-t	MI16	6.0	17.5	
24	BMW+w	MT20	3.0	6.0	

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

**WARNING: THE UNUSUALLY LONG SPAN AND/OR CONFIGURATION OF THIS TRUSS REQUIRES THAT EXTREME CARE BE USED IN ITS APPLICATION. USE PROPER TRANSPORTATION, UNLOADING AND ERECTION METHODS. ASSURE THAT ALL REQUIRED WEB LATERAL BRACING IS COMMUNICATED TO THE BUILDING CONTRACTOR. ENSURE THAT OVERALL BUILDING BRACING IS DESIGNED BY A QUALIFIED ENGINEER, ARCHITECT OR BUILDING DESIGNER.**

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

**TRUSS ERECTION AND INSTALLATION MUST BE SUPERVISED BY A PROFESSIONAL ENGINEER OR OTHER QUALIFIED PERSON.**

**BEARINGS**

JT	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX
1	9686	0	9686	504	-2335	7-4	7-4
13	9686	0	9686	0	-2335	7-4	7-4

PROVIDE ANCHORAGE AT BEARING JOINT 1 FOR 2335 LBS. FACTORED UPLIFT

PROVIDE ANCHORAGE AT BEARING JOINT 13 FOR 2335 LBS. FACTORED UPLIFT

**NOTE: ANCHORAGE REQUIRED FOR LARGE UPLIFT FORCES. SHALL BE PROVIDED BY BLDG. DESIGNER.**

PROVIDE FOR 504 LBS. FACTORED HORIZONTAL REACTION AT JOINT 1

ALLOW FOR 0.5" OF HORIZONTAL MOVEMENT DUE TO TOTAL LOAD

**UNFACTORED REACTIONS**

JT	COMBINED	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
1	7840	4331 / 0	1595 / 0	0 / 0	0 / -2898	1914 / 0	0 / 0
13	7840	4331 / 0	1595 / 0	0 / 0	0 / -2898	1914 / 0	0 / 0

**HORIZONTAL REACTIONS**

1	---	0 / 0	0 / 0	0 / 0	360 / -360	0 / 0	0 / 0
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BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) 1, 13

**BRACING**

MAX. UNBRACED TOP CHORD LENGTH = 2.71 FT.

MAX. UNBRACED BOTTOM CHORD LENGTH = 5.57 FT OR RIGID CEILING DIRECTLY APPLIED.

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

- 1 LATERAL BRACE(S) AT 1/2 LENGTH OF 6-21, 7-19, 8-17, 2-22, 12-16.
- 2 LATERAL BRACE(S) AT 1/3 LENGTH OF 4-21, 6-19, 8-19, 10-17.

**LOADING**

TOTAL LOAD CASES: (18)

CHORDS				WEBS			
MEMB.	FORCE (LBS)	FACTORED VERT. LOAD (PLF)	LC1 MAX CSI (LC)	MAX. UNBRAC LENGTH	FR-TO	MEMB.	FORCE (LBS)
FR-TO							
1-26	-28679 / 6491	-187.9	-187.9 0.69 (1)	2.71	24-2	0 / 830	0.08 (17)
26-2	-27922 / 6656	-187.9	-187.9 0.87 (1)	2.77	22-4	-128 / 1683	0.15 (5)
2-3	-25102 / 5948	-187.9	-187.9 0.59 (1)	3.19	21-6	-516 / 3032	0.27 (2)
3-4	-25102 / 5948	-187.9	-187.9 0.59 (1)	3.19	19-7	-1660 / 8045	0.52 (1)
4-5	-21208 / 5023	-187.9	-187.9 0.46 (1)	3.53	17-8	-516 / 3032	0.27 (3)
5-6	-21208 / 5023	-187.9	-187.9 0.46 (1)	3.53	16-10	-130 / 1683	0.15 (6)
6-7	-17087 / 4039	-187.9	-187.9 0.37 (1)	3.93	14-12	0 / 830	0.08 (17)
7-8	-17087 / 4039	-187.9	-187.9 0.37 (1)	3.93	2-22	-3229 / 1056	0.88 (2)
8-9	-21208 / 5024	-187.9	-187.9 0.46 (1)	3.53	4-21	-4706 / 1430	0.74 (2)
9-10	-21208 / 5024	-187.9	-187.9 0.46 (1)	3.53	6-19	-5757 / 1816	0.75 (2)
10-11	-25102 / 5948	-187.9	-187.9 0.59 (1)	3.19	19-8	-5757 / 1817	0.75 (3)
11-12	-25102 / 5948	-187.9	-187.9 0.59 (1)	3.19	17-10	-4706 / 1429	0.74 (3)
12-28	-27922 / 6661	-187.9	-187.9 0.87 (1)	2.77	16-12	-3229 / 1063	0.88 (3)
28-13	-28679 / 6496	-187.9	-187.9 0.69 (1)	2.71	25-26	0 / 1991	0.00 (1)
					27-28	0 / 1991	0.00 (1)
1-25	-6555 / 26719	-55.0	-55.0 0.92 (1)	5.63			
25-24	-6555 / 26719	-55.0	-55.0 0.92 (1)	5.57			
24-23	-6555 / 26719	-55.0	-55.0 0.84 (1)	5.57			
23-22	-6555 / 26719	-55.0	-55.0 0.84 (1)	5.57			
22-21	-5579 / 24145	-55.0	-55.0 0.72 (1)	5.95			
21-20	-4377 / 20364	-55.0	-55.0 0.64 (1)	6.25			
20-19	-4377 / 20364	-55.0	-55.0 0.64 (1)	6.25			
19-18	-3987 / 20364	-55.0	-55.0 0.64 (1)	6.25			
18-17	-3987 / 20364	-55.0	-55.0 0.64 (1)	6.25			
17-16	-5189 / 24145	-55.0	-55.0 0.72 (1)	6.11			
16-15	-6170 / 26719	-55.0	-55.0 0.84 (1)	5.70			
15-14	-6170 / 26719	-55.0	-55.0 0.84 (1)	5.70			
14-27	-6170 / 26719	-55.0	-55.0 0.92 (1)	5.70			
27-13	-6170 / 26719	-55.0	-55.0 0.92 (1)	5.76			

TRUSS HAS BEEN CHECKED FOR UNBALANCED LOADING AS PER NBCC 4.1.6.2.(8)

WIND LOAD APPLIED IS DERIVED FROM REFERENCE VELOCITY PRESSURE OF { 7.3} PSF AT {40-0-0} FT-IN-SX REFERENCE HEIGHT ABOVE GRADE AND USING EXTERNAL PEAK COEFFICIENTS, CpG, BASED ON THE {MAIN WIND FORCE RESISTING SYSTEM}. INTERNAL WIND PRESSURE IS BASED ON DESIGN {CATEGORY 2}. BUILDING MAY BE LOCATED ON {OPEN TERRAIN}, AND TRUSS IS DESIGNED TO BE LOCATED AT LEAST {0-0} FT-IN-SX AWAY FROM EAVE.

**DESIGN CRITERIA**

SPECIFIED LOADS:

TOP CH. LL = 27.2 PSF  
DL = 5.0 PSF

BOT CH. LL = 10.0 PSF  
DL = 7.0 PSF

TOTAL LOAD = 49.2 PSF

SPACING = 48.0 IN.CC

THIS TRUSS IS DESIGNED FOR COMMERCIAL OR INDUSTRIAL BUILDING REQUIREMENTS OF PART 4, NBCC 2010

THIS DESIGN COMPLIES WITH:  
- PART 4 OF OBC 2012, BCBC 2012, ABC 2014  
- CSA 086-09  
- TPIC 2011

DESIGN ASSUMPTIONS  
- SLOPE REDUCTION FACTOR USED

(80% OF 31.3 P.S.F. G.S.L. PLUS 2.1 P.S.F. RAIN LOAD)  
TIMES IMPORTANCE FACTOR EQUALS 27.2 P.S.F.  
SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = L/360 (2.66")  
CALCULATED VERT. DEFL.(LL) = L/ 802 (1.19")  
ALLOWABLE DEFL.(TL) = L/180 (5.32")  
CALCULATED VERT. DEFL.(TL) = L/ 566 (1.69")

CSI: TC=0.87/1.00 (2-26:1), BC=0.92/1.00 (1-25:1),  
WB=0.88/1.00 (12-16:3), SSI=0.88/1.00 (1-26:1)

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

SNOW LOAD IMPORTANCE FACTOR = 1.00  
WIND LOAD IMPORTANCE FACTOR = 1.00  
LIVE LOAD IMPORTANCE FACTOR = 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  
MI16 473 276 2341 1245 4454 1656

PLATE PLACEMENT TOL = 0.250 inches

PLATE ROTATION TOL = 5.0 Deg.

JSI GRIP= 0.89 (21) (INPUT = 0.90)  
JSI METAL= 0.98 (1) (INPUT = 1.00)



JOB NAME <b>J17-2804-A</b>	TRUSS NAME <b>C80-GEA</b>	QUANTITY <b>2</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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Edge - INDICATES REFERENCE CORNER OF PLATE TOUCHES  
EDGE OF CHORD.

**WARNING: THE UNUSUALLY LONG SPAN AND/OR CONFIGURATION OF THIS TRUSS REQUIRES THAT EXTREME CARE BE USED IN ITS APPLICATION. USE PROPER TRANSPORTATION, UNLOADING AND ERECTION METHODS. ASSURE THAT ALL REQUIRED WEB LATERAL BRACING IS COMMUNICATED TO THE BUILDING CONTRACTOR. ENSURE THAT OVERALL BUILDING BRACING IS DESIGNED BY A QUALIFIED ENGINEER, ARCHITECT OR BUILDING DESIGNER.**

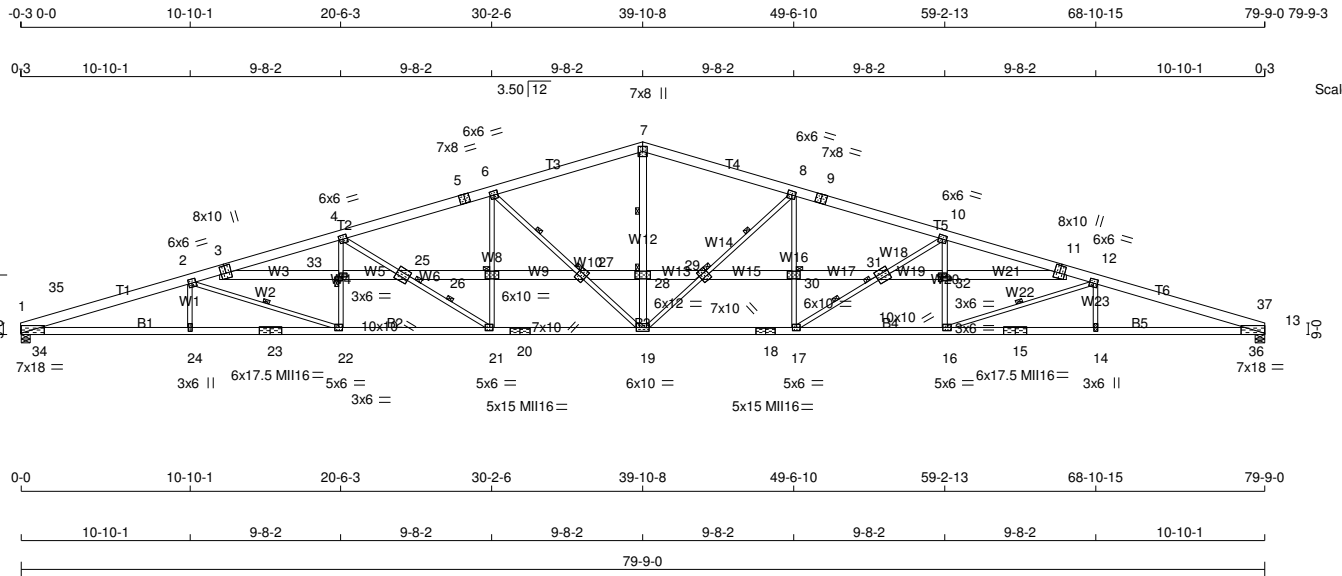
WIND LOAD APPLIED IS DERIVED FROM REFERENCE VELOCITY PRESSURE OF { 7.3} PSF AT {40-0-0} FT-IN-SX REFERENCE HEIGHT ABOVE GRADE AND USING EXTERNAL PEAK COEFFICIENTS,  $C_p C_q$ , BASED ON THE (MAIN WIND FORCE RESISTING SYSTEM). INTERNAL WIND PRESSURE IS BASED ON DESIGN (CATEGORY 2). BUILDING MAY BE LOCATED ON (OPEN TERRAIN), AND TRUSS IS DESIGNED TO BE LOCATED AT LEAST (0-0) FT-IN-SX AWAY FROM EAVE.

JOB NAME <b>J17-2804-A</b>	TRUSS NAME <b>C80-GEB</b>	QUANTITY <b>2</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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Scale = 1:147.7

TOTAL WEIGHT = 2 X 603 = 1206 lb

LUMBER			
N. L. G. A. RULES			
CHORDS	SIZE	LUMBER	DESCR.
1 - 3	2x8	DRY 1950F 1.7E	SPF
3 - 5	2x8	DRY 1950F 1.7E	SPF
5 - 7	2x8	DRY 1950F 1.7E	SPF
7 - 9	2x8	DRY 1950F 1.7E	SPF
9 - 11	2x8	DRY 1950F 1.7E	SPF
11 - 13	2x8	DRY 1950F 1.7E	SPF
1 - 23	2x6	DRY 2100F 1.8E	SPF
23 - 20	2x6	DRY 2100F 1.8E	SPF
20 - 18	2x6	DRY 2100F 1.8E	SPF
18 - 15	2x6	DRY 2100F 1.8E	SPF
15 - 13	2x6	DRY 2100F 1.8E	SPF
ALL WEBS EXCEPT			
19 - 7	2x4	DRY No.2	SPF
6 - 19	2x4	DRY 2100F 1.8E	SPF
19 - 8	2x4	DRY 2100F 1.8E	SPF
33 - 25	2x4	DRY 1950F 1.7E	SPF
25 - 26	2x4	DRY 1950F 1.7E	SPF
26 - 27	2x4	DRY 1950F 1.7E	SPF
27 - 28	2x4	DRY 1950F 1.7E	SPF
28 - 29	2x4	DRY 1950F 1.7E	SPF
29 - 30	2x4	DRY 1950F 1.7E	SPF
30 - 31	2x4	DRY 1950F 1.7E	SPF
31 - 32	2x4	DRY 1950F 1.7E	SPF

DRY: SEASONED LUMBER.

**PLATES (table is in inches)**

JT	TYPE	PLATES	W	LEN	Y	X
1	TMB1-I	MT20	7.0	18.0		Edge
2, 4, 6, 8, 10, 12						
2	TMWW-t	MT20	6.0	6.0		
3	TSW-t	MT20	8.0	10.0	6.00	4.00
5	TS-t	MT20	7.0	8.0		
7	TTW+p	MT20	7.0	8.0		
9	TS-t	MT20	7.0	8.0		
11	TSW-t	MT20	8.0	10.0	6.00	4.00
13	TMB1-I	MT20	7.0	18.0		Edge
14	BMW+w	MT20	3.0	6.0		
15	BS-t	MI116	6.0	17.5		
16	BMWW-t	MT20	5.0	6.0		
17	BMWW-t	MT20	5.0	6.0	2.50	2.75
18	BS-t	MI116	5.0	15.0		
19	BMWWW-t	MT20	6.0	10.0	2.75	5.00
20	BS-t	MI116	5.0	15.0		
21	BMWW-t	MT20	5.0	6.0	2.50	2.75
22	BMWW-t	MT20	5.0	6.0		
23	BS-t	MI116	6.0	17.5		
24	BMW+w	MT20	3.0	6.0		
25	WMWW-t	MT20	10.0	10.0		
26	WMWW+t	MT20	6.0	10.0		
27	WMWW+t	MT20	7.0	10.0		
28	WMWW+t	MT20	6.0	12.0		
29	WMWW+t	MT20	7.0	10.0		
30	WMWW+t	MT20	6.0	10.0		
31	WMWW-t	MT20	10.0	10.0		
32	NP-w	MT20	3.0	6.0	3.00	1.00
33	NP-w	MT20	3.0	6.0		
33	NP-w	MT20	3.0	6.0	3.00	1.00

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

**WARNING: THE UNUSUALLY LONG SPAN AND/OR CONFIGURATION OF THIS TRUSS REQUIRES THAT EXTREME CARE BE USED IN ITS APPLICATION. USE PROPER TRANSPORTATION, UNLOADING AND ERECTION METHODS. ASSURE THAT ALL REQUIRED WEB LATERAL BRACING IS COMMUNICATED TO THE BUILDING CONTRACTOR. ENSURE THAT OVERALL BUILDING BRACING IS DESIGNED BY A QUALIFIED ENGINEER, ARCHITECT OR BUILDING DESIGNER.**

**DIMENSIONS, SUPPORTS, AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER. TRUSS ERECTION AND INSTALLATION MUST BE SUPERVISED BY A PROFESSIONAL ENGINEER OR OTHER QUALIFIED PERSON.**

**BEARINGS**

JT	FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG		REQRD BRG	
	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX	IN-SX
1	4843	0	4843	252	-1168	7-4	7-4	
13	4843	0	4843	0	-1168	7-4	7-4	

PROVIDE ANCHORAGE AT BEARING JOINT 1 FOR 1168 LBS. FACTORED UPLIFT  
 PROVIDE ANCHORAGE AT BEARING JOINT 13 FOR 1168 LBS. FACTORED UPLIFT

**NOTE: ANCHORAGE REQUIRED FOR LARGE UPLIFT FORCES. SHALL BE PROVIDED BY BLDG. DESIGNER.**

PROVIDE FOR 252 LBS. FACTORED HORIZONTAL REACTION AT JOINT 1

ALLOW FOR 0.5" OF HORIZONTAL MOVEMENT DUE TO TOTAL LOAD

**UNFACTORED REACTIONS**

JT	COMBINED	1ST LCASE		MAX/MIN COMPONENT REACTIONS		WIND	DEAD	SOIL
		SNOW	LIVE	PERM. LIVE	WIND			
13	3920	2165 / 0	798 / 0	0 / 0	0 / -1449	957 / 0	0 / 0	0 / 0
13	3920	2165 / 0	798 / 0	0 / 0	0 / -1449	957 / 0	0 / 0	0 / 0

**HORIZONTAL REACTIONS**

1	---	0 / 0	0 / 0	0 / 0	180 / -180	0 / 0	0 / 0	0 / 0
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BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) 1, 13

**BRACING**

MAX. UNBRACED TOP CHORD LENGTH = 2.87 FT.  
 MAX. UNBRACED BOTTOM CHORD LENGTH = 5.60 FT. OR RIGID CEILING DIRECTLY APPLIED.  
 MAX. UNBRACED INTERIOR CHORD LENGTH = 4.39 FT

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

1 LATERAL BRACE(S) AT 1/2 LENGTH OF 7-28, 2-22, 21-25, 6-27, 8-29, 17-31, 12-16.

1 - 2X4 LATERAL BRACE REQUIRED AT JOINTS 25, 26, 27, 28, 29, 30, 31, 32, 33 TO PREVENT ROTATION.

**LOADING**

TOTAL LOAD CASES: (18)

FR-TO	C H O R D S		W E B S		
	MAX. FACTORED MEMB. FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. FACTORED VERT. LOAD (LO)	MAX. FACTORED MEMB. FORCE (LBS)	
1-35	-14342 / 3245	-94.0	-94.0	2.87	
35-2	-13961 / 3328	-94.0	-94.0	2.92	
2-3	-12551 / 2974	-94.0	-94.0	3.28	
3-4	-12551 / 2974	-94.0	-94.0	3.28	
4-5	-10633 / 2517	-94.0	-94.0	3.61	
5-6	-10633 / 2517	-94.0	-94.0	3.61	
6-7	-8578 / 2026	-94.0	-94.0	4.00	
7-8	-8578 / 2027	-94.0	-94.0	4.00	
8-9	-10633 / 2517	-94.0	-94.0	3.61	
9-10	-10633 / 2517	-94.0	-94.0	3.61	
10-11	-12551 / 2974	-94.0	-94.0	3.28	
11-12	-12551 / 2974	-94.0	-94.0	3.28	
12-37	-13961 / 3331	-94.0	-94.0	2.92	
37-13	-14342 / 3248	-94.0	-94.0	2.87	
1-34	-3278 / 13360	-27.5	-27.5	5.65	
34-24	-3278 / 13360	-27.5	-27.5	5.60	
24-23	-3278 / 13360	-27.5	-27.5	5.60	
23-22	-3278 / 13360	-27.5	-27.5	5.60	
22-21	-2790 / 12066	-27.5	-27.5	5.98	
21-20	-2180 / 10138	-27.5	-27.5	6.25	
20-19	-2180 / 10138	-27.5	-27.5	6.25	
19-18	-1986 / 10138	-27.5	-27.5	6.25	
18-17	-1986 / 10138	-27.5	-27.5	6.25	
17-16	-2595 / 12066	-27.5	-27.5	6.13	
16-15	-3085 / 13360	-27.5	-27.5	5.73	
15-14	-3085 / 13360	-27.5	-27.5	5.73	
14-36	-3085 / 13360	-27.5	-27.5	5.73	
36-13	-3085 / 13360	-27.5	-27.5	5.78	
				31-32	-6 / 25
				34-35	0 / 1001
				36-37	0 / 1001

TRUSS HAS BEEN CHECKED FOR UNBALANCED LOADING AS PER NBCC 4.1.6.2.(8).

**DESIGN CRITERIA**

SPECIFIED LOADS:  
 TOP CH. LL = 27.2 PSF  
 DL = 5.0 PSF  
 BOT CH. LL = 10.0 PSF  
 DL = 7.0 PSF  
 TOTAL LOAD = 49.2 PSF

SPACING = 24.0 IN.CC

THIS TRUSS IS DESIGNED FOR COMMERCIAL OR INDUSTRIAL BUILDING REQUIREMENTS OF PART 4, NBCC 2010

THIS DESIGN COMPLIES WITH:  
 - PART 4 OF OBC 2012, BCBC 2012, ABC 2014  
 - CSA 086-09  
 - TPIC 2011

DESIGN ASSUMPTIONS  
 - SLOPE REDUCTION FACTOR USED

(80% OF 31.3 P.S.F. G.S.L. PLUS 2.1 P.S.F. RAIN LOAD)  
 TIMES IMPORTANCE FACTOR = 1.00  
 SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL)= L/360 (2.66")  
 CALCULATED VERT. DEFL.(LL)= L/ 802 (1.19")  
 ALLOWABLE DEFL.(TL)= L/180 (5.32")  
 CALCULATED VERT. DEFL.(TL)= L/ 566 (1.69")

CSI: TC=0.76/1.00 (2-35:1), BC=0.83/1.00 (24-34:1),  
 WB=0.87/1.00 (12-16:3), SSI=0.80/1.00 (1-35:1)

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

SNOW LOAD IMPORTANCE FACTOR = 1.00  
 WIND LOAD IMPORTANCE FACTOR = 1.00  
 LIVE LOAD IMPORTANCE FACTOR = 1.00  
 COMPANION LIVE LOAD FACTOR = 0.50

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

PLATE	GRIP(DRY)	SHEAR	SECTION
(PSI)	(PLI)	(PLI)	(PLI)
	MAX	MIN	MAX
MT20	618	354	1667
MI116	473	276	2341
	1245	4454	1656

PLATE PLACEMENT TOL = 0.250 inches

PLATE ROTATION TOL = 5.0 Deg.

JSI GRIP= 0.89 (11) (INPUT = 0.90)  
 JSI METAL= 0.98 (11) (INPUT = 1.00)

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
J17-2804-A	C80-GEB	2	1	TRUSS DESC.	

Structural Truss Systems, Fort Macleod, Brent Feyter

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WIND LOAD APPLIED IS DERIVED FROM REFERENCE VELOCITY PRESSURE OF { 7.3} PSF AT {40-0-0} FT-IN-SX REFERENCE HEIGHT ABOVE GRADE AND USING EXTERNAL PEAK COEFFICIENTS, CpCq, BASED ON THE (MAIN WIND FORCE RESISTING SYSTEM). INTERNAL WIND PRESSURE IS BASED ON DESIGN (CATEGORY 2). BUILDING MAY BE LOCATED ON (OPEN TERRAIN), AND TRUSS IS DESIGNED TO BE LOCATED AT LEAST (0-0) FT-IN-SX AWAY FROM EAVE.