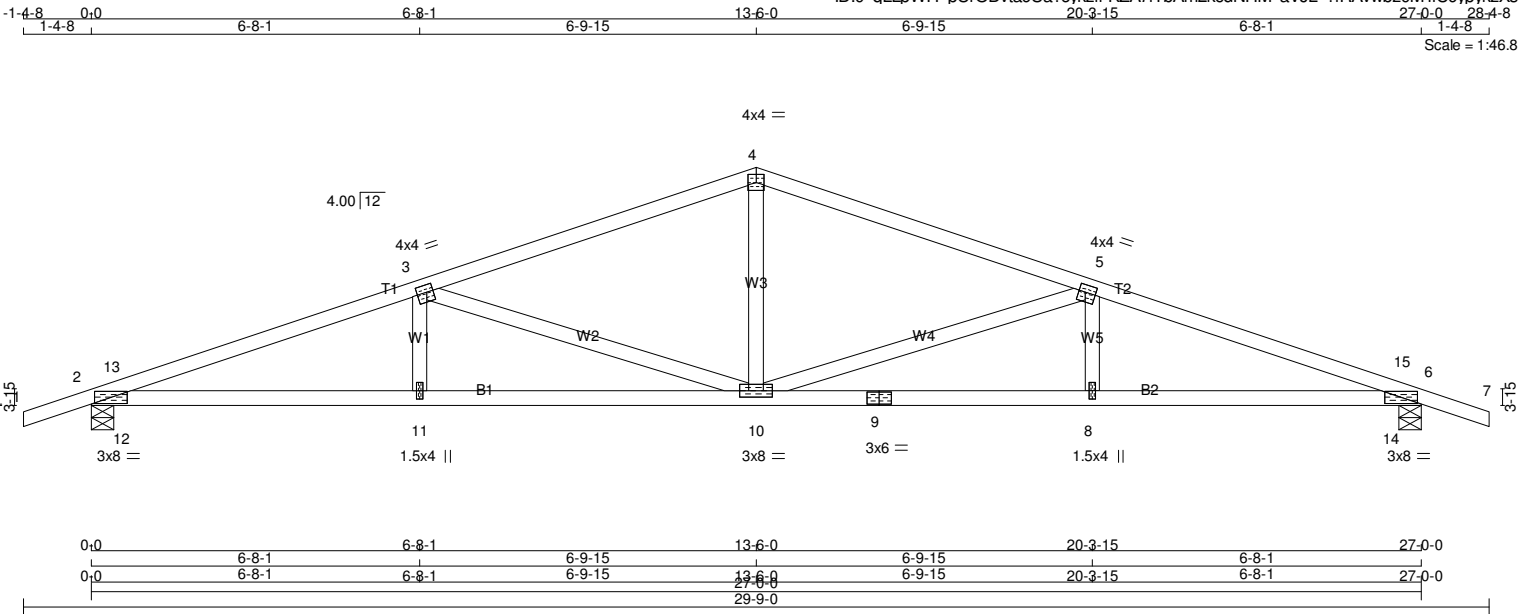


JOB NAME B22-3326-A	TRUSS NAME T27	QUANTITY 6	PLY 1	JOB DESC. TRUSS DESC.	DRWG NO.
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Structural Truss Systems, Fort Macleod, Derek Vandermaarel

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TOTAL WEIGHT = 6 X 92 = 550 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
DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
2	TMB1-l	MT20	3.0	8.0		
3	TMWW-t	MT20	4.0	4.0	1.75	1.50
4	TTW-p	MT20	4.0	4.0		
5	TMWW-t	MT20	4.0	4.0	1.75	1.50
6	TMB1-l	MT20	3.0	8.0		
8	BMW+w	MT20	1.5	4.0		
9	BS-t	MT20	3.0	6.0		
10	BMWW-t	MT20	3.0	8.0		
11	BMW+w	MT20	1.5	4.0		

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

BEARINGS

JT	VERT	HORZ	FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	REQRD BRG
2	1358	0	1358	0	5-8	5-8
6	1358	0	1358	0	5-8	5-8

UNFACTORED REACTIONS

JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
2	962	624 / 0	0 / 0	0 / 0	0 / 0	338 / 0	0 / 0
6	962	624 / 0	0 / 0	0 / 0	0 / 0	338 / 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 = 3.50 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	LC2 MAX	MEMB. UNBRAC	MAX. FACTORED FORCE (LBS)	MAX. FACTORED CSI (LC)
FR-TO		FROM TO			FR-TO		
1-2	0 / 16	-75.2 -75.2	0.11 (1)	10.00	10-4	0 / 842	0.14 (1)
2-13	-3156 / 0	-75.2 -75.2	0.13 (1)	3.86	10-5	-1141 / 0	0.80 (1)
13-3	-3109 / 0	-75.2 -75.2	0.55 (1)	3.50	8-5	0 / 136	0.03 (4)
3-4	-1999 / 0	-75.2 -75.2	0.50 (1)	4.27	3-10	-1141 / 0	0.80 (1)
4-5	-1999 / 0	-75.2 -75.2	0.50 (1)	4.27	11-3	0 / 136	0.03 (4)
5-15	-3109 / 0	-75.2 -75.2	0.55 (1)	3.50	12-13	-104 / 51	0.00 (1)
15-6	-3156 / 0	-75.2 -75.2	0.13 (1)	3.86	14-15	-104 / 51	0.00 (1)
6-7	0 / 16	-75.2 -75.2	0.11 (1)	10.00			
2-12	0 / 2965	-17.5 -17.5	0.59 (1)	10.00			
12-11	0 / 2965	-17.5 -17.5	0.63 (1)	10.00			
11-10	0 / 2965	-17.5 -17.5	0.58 (1)	10.00			
10-9	0 / 2965	-17.5 -17.5	0.58 (1)	10.00			
9-8	0 / 2965	-17.5 -17.5	0.58 (1)	10.00			
8-14	0 / 2965	-17.5 -17.5	0.63 (1)	10.00			
14-6	0 / 2965	-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.C.C
THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBCS 2015

THIS DESIGN COMPLIES WITH:
- PART 9 OF BCBC 2018, ABC 2019
- PART 9 OF OBC 2012 (2019 AMENDMENT)
- CSA 086-14
- TPIC 2014

(64% OF 29.3 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 (0.90")
CALCULATED VERT. DEFL.(LL) = L/999 (0.17")
ALLOWABLE DEFL.(TL) = L/360 (0.90")
CALCULATED VERT. DEFL.(TL) = L/922 (0.35")

CSI: TC=0.55/1.00 (5-15:1), BC=0.63/1.00 (11-12:1),
WB=0.80/1.00 (5-10:1), SSI=0.23/1.00 (4-5:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

NAIL VALUES

PLATE	GRIP(DRY)	SHEAR (PSI)	SECTION (PLI)
MT20	650	371	1747 788 1987 1873

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.83 (6) (INPUT = 0.90)
JSI METAL= 0.91 (9) (INPUT = 1.00)