

Robbins Engineering, Inc./Online Plus™

Online Plus -- Version 19.0.036  
RUN DATE: 11-22-06

CSI	SIZE	LUMBER	FB
TOP	0.21	4X 8 DFL-SS	2871
BEM	0.19	4X 8 DFL-SS	2871
WBS	0.02	4X 6 DFL-SS	3349

TREATMENT: UNTREATED  
SERVICE: DRY  
CONDITION AT MANUFACTURE: DRY  
SEASONED LUMBER: NO

LATERAL BRACING:  
TOP CHORD - 175 IN. OC  
BEM CHORD - 120 IN. OC  
ALL BRACES 2X4"  
TRUSS SPACING - 48.0 IN.

STANDARD LOADING  
LUMBER STRESS INCREASE: 0.04%  
PLATE STRESS INCREASE: 0.04%  
UNFACTORED LOADING:

	LIVE	DEAD	(PSF)
TOP CHD	30.9	5.0	
BEM CHD	0.0	7.0	
TOTAL	30.9	12.0	42.9
UNFACTORED REACTIONS			
JT REACT (LL)	REACT (DL)		
	LBS	LBS	
A	1330	418	
C	1330	418	

SUPPORT CRITERIA  
JT REACT WIDTH JT REACT WIDTH  
LBS IN-SX LBS IN-SX  
A 2517 5- 8 C 2517 5- 8

LOAD CASE #1 TPIC WIND LD 1  
LUMBER STRESS INCREASE: 33.34%  
PLATE STRESS INCREASE: 33.34%  
UNFACTORED LOADING:

	LIVE	DEAD	(PSF)
TOP CHD	30.9	5.0	
BEM CHD	0.0	7.0	
TOTAL	30.9	12.0	42.9
EXCEPTIONS:			
A-B	-19.2N	5.0	
B-C	-12.2N	5.0	
UNFACTORED REACTIONS			
JT REACT (LL)	REACT (DL)		
	LBS	LBS	
A	-769	418	
C	-581	418	

SUPPORT CRITERIA  
JT TYPE HORE VERT WIDTH  
LBS LBS IN-SX  
A PIN 152 -798 5- 8  
C HORE RLR 0 -516 5- 8

LOAD CASE #2 TPIC WIND LD 2  
LUMBER STRESS INCREASE: 33.34%  
PLATE STRESS INCREASE: 33.34%  
UNFACTORED LOADING:

	LIVE	DEAD	(PSF)
TOP CHD	30.9	5.0	
BEM CHD	0.0	7.0	
TOTAL	30.9	12.0	42.9
EXCEPTIONS:			
A-B	-12.2N	5.0	
B-C	-19.2N	5.0	
UNFACTORED REACTIONS			
JT REACT (LL)	REACT (DL)		
	LBS	LBS	
A	-581	418	
C	-769	418	

SUPPORT CRITERIA  
JT TYPE HORE VERT WIDTH  
LBS LBS IN-SX  
A PIN -152 -516 5- 8  
C HORE RLR 0 -798 5- 8

LOAD CASE #3 TPIC WIND LD 3  
LUMBER STRESS INCREASE: 33.34%  
PLATE STRESS INCREASE: 33.34%  
UNFACTORED LOADING:

	LIVE	DEAD	(PSF)
TOP CHD	30.9	5.0	
BEM CHD	0.0	7.0	
TOTAL	30.9	12.0	42.9
EXCEPTIONS:			
A-B	-22.1N	5.0	
B-C	-12.5N	5.0	
UNFACTORED REACTIONS			
JT REACT (LL)	REACT (DL)		
	LBS	LBS	
A	-872	418	
C	-615	418	

SUPPORT CRITERIA  
JT TYPE HORE VERT WIDTH  
LBS LBS IN-SX  
A PIN 209 -953 5- 8  
C HORE RLR 0 -567 5- 8

LOAD CASE #4 TPIC WIND LD 4  
LUMBER STRESS INCREASE: 33.34%  
PLATE STRESS INCREASE: 33.34%  
UNFACTORED LOADING:

	LIVE	DEAD	(PSF)
TOP CHD	30.9	5.0	
BEM CHD	0.0	7.0	
TOTAL	30.9	12.0	42.9
EXCEPTIONS:			
A-B	-12.5N	5.0	
B-C	-22.1N	5.0	
UNFACTORED REACTIONS			
JT REACT (LL)	REACT (DL)		
	LBS	LBS	
A	-615	418	
C	-872	418	

SUPPORT CRITERIA  
JT TYPE HORE VERT WIDTH  
LBS LBS IN-SX  
A PIN -209 -567 5- 8  
C HORE RLR 0 -953 5- 8

LOAD CASE #5 AUTO UNBAL LIVE  
LUMBER STRESS INCREASE: 0.04%

PLATE STRESS INCREASE: 0.04%  
UNFACTORED LOADING:

	LIVE	DEAD	(PSF)
TOP CHD	30.9	5.0	
BEM CHD	0.0	7.0	
TOTAL	30.9	12.0	42.9
EXCEPTIONS:			
A-B	35.5	5.0	
B-C	0.0	5.0	
UNFACTORED REACTIONS			
JT REACT (LL)	REACT (DL)		
	LBS	LBS	
A	1269	418	
C	257	418	

SUPPORT CRITERIA  
JT TYPE HORE VERT WIDTH  
LBS LBS IN-SX  
A PIN -3 2427 5- 8  
C HORE RLR 0 908 5- 8

LOAD CASE #6 AUTO UNBAL LIVE  
LUMBER STRESS INCREASE: 0.04%  
PLATE STRESS INCREASE: 0.04%  
UNFACTORED LOADING:

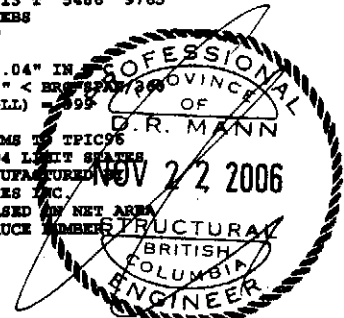
	LIVE	DEAD	(PSF)
TOP CHD	30.9	5.0	
BEM CHD	0.0	7.0	
TOTAL	30.9	12.0	42.9
EXCEPTIONS:			
A-B	0.0	5.0	
B-C	35.5	5.0	
UNFACTORED REACTIONS			
JT REACT (LL)	REACT (DL)		
	LBS	LBS	
A	257	418	
C	1269	418	

SUPPORT CRITERIA  
JT TYPE HORE VERT WIDTH  
LBS LBS IN-SX  
A PIN 3 908 5- 8  
C HORE RLR 0 2427 5- 8

LEFT RIGHT  
HEEL 0IN - 48X 0IN - 48X  
MEMBER CSI P(LBS) MØ1ST MØ2ND  
TOP CHORDS  
A-B 0.21 2970 C 307 0  
B-C 0.21 2970 C 0 -307  
BOTTOM CHORDS  
A-D 0.19 2813 T -9765 -5486  
D-C 0.19 2813 T 5486 9765  
WEBS  
D-B = 636 T

DL+LL DEFL = 0.04" IN  
LL DEFL = 0.02" < BRG SPAN/300  
SPAN/DEFL (DL+LL) = 295

PLATING CONFORMS TO TPIC96  
AND CSA086.1-94 LIMIT STATES  
PLATES ARE MANUFACTURED BY  
MITEK INDUSTRIES INC.  
GRIP VALUES BASED ON NET AREA  
METHOD FOR SPRUCE MEMBERS



Job <b>j06f029f</b>	Mark <b>TMB1</b>	Quan 1	Type KI	Span 140600	P1-H1 4	Left OH 3- 6- 0	Right OH 3- 6- 0	Engineering Cont.
CC Q06F029E Alan Jones Const. TAG: Block A								

PF-MITEKCA 03/04/05  
 PLATES - 20 GAUGE M-20  
 GRIPPING 564-342 PSI PER PAIR  
 INCLUDES 0.04 INCREASE  
 TENSION 1370- 995 PLI PER PAIR  
 SHEAR 1014- 487 PLI PER PAIR

JT TYPE	PLATE	SIZE	X	Y
A	2001	5.00 X 8.00	14.5	6.0
B	3001R	3.00 X 6.00	4.4	1.5
C	2001	5.00 X 8.00	14.5	6.0
D	1001	1.50 X 5.00	CTR	CTR

R = PLATE IS ROTATED BY 90 DEG

NOTES:

1. TRUSSES MANUFACTURED BY -  
Pacific Truss
2. ANALYSIS CONFORMS TO  
PART 4 OF NBCC-1995.
3. STANDARD FORMULA USED.
4. WIND LOADS - TPIC, 1996  
WIND PRESSURE: 9.6 PSF  
TRUSS LOCATION: AT END  
MEAN ROOF HEIGHT - 25'  
ENCLOSED BUILDING.  
TC DEAD LOAD = 5.0 PSF  
BC DEAD LOAD = 7.0 PSF
5. DESIGN ROOF SNOW LOAD USE:  
GROUND SNOW LOAD = 33.4 PSF  
RAIN LOAD = 4.2 PSF  
(BAL, UNBAL LD FAC=0.80, 0.94)
6. UNBALANCED LOADS CHECKED  
(UNBLM LD FAC = 1.15, 0.00).
7. PREVENT TRUSS ROTATION AT  
ALL BEARING LOCATIONS.
8. ANCHOR TRUSS FOR A TOTAL  
HORIZONTAL LOAD OF 209 LBS.
9. FASTEN TRUSS TO BRG A  
FOR 953 LBS OF UPLIFT,  
WHILE PERMITTING NO UPWARD  
MOVEMENT OF WALL OR BRG.
10. FASTEN TRUSS TO BRG C  
FOR 953 LBS OF UPLIFT,  
WHILE PERMITTING NO UPWARD  
MOVEMENT OF WALL OR BRG.