



FORCES IN MEMBERS (Cont.) [Kips]									
No	Tension	Compress.	REQUIRED MATERIAL		Slend.	Util.	Length	REQUIRED WELD	
			X	Y tied at mid-length				RT-Invert-Mid-Join	Remarks
2.6	40.86	0.00	do	do	z 61 0.93	do	do		
2.7	44.48	0.00	do	do	z 61 0.91	do	do		
2.8	45.77	0.00	do	do	z 61 0.93	do	do		
2.9	45.12	0.00	do	do	z 61 0.90	do	do		
2.10	44.02	0.00	do	do	z 61 0.85	do	do		
2.11	41.58	0.00	do	do	z 61 0.77	do	do		
2.12	38.00	0.00	do	do	z 61 0.68	do	do		
2.13	37.07	0.00	do	do	z 61 0.58	do	do		
2.14	27.40	0.00	do	do	z 61 0.48	2'-0"	do		
2.15	20.39	0.00	do	do	z 51 0.36	1'-8"	do		
2.16	12.23	0.00	1L 2 x .216	do	z 59 0.21	2'-0 1/2"	do		
2.17	0.00	0.00							
End Diagonal									
3.1	12.77	0.00	RD 3/4 (48)	do	z 110 0.96	2'-2 5/8"	200 - 1 1/2"		
3.2	12.09	0.00	RD 3/4 (48)	do	z 110 0.91	2'-2 5/8"	200 - 1 1/2"		
Diagonal Towards End									
4.1	8.19	0.00	RD 3/4 (48)	do	z 84 0.62	1'-8"	200 - 1"		
4.2	7.12	0.00	RD 13/16 (52)	do	z 77 0.46	do	208 - 0 7/8"		
4.3	6.86	0.00	RD 13/16 (52)	do	z 77 0.38	do	208 - 0 7/8"		
4.4	4.98	0.00	RD 11/16 (44)	do	z 91 0.35	do	193 - 0 3/4"		
4.5	3.88	0.00	do	do	z 91 0.23	do	do		
4.6	2.53	0.00	do	do	z 91 0.41	do	do		
4.7	0.00	-7.97	do	do	z 91 0.23	do	do		
4.8	2.53	0.00	do	do	z 91 0.30	do	do		
4.9	2.53	0.00	do	do	z 91 0.40	do	do		
4.10	3.38	0.00	do	do	z 77 0.46	do	193 - 0 3/4"		
4.11	5.45	0.00	RD 11/16 (44)	do	z 77 0.46	do	208 - 0 7/8"		
4.12	6.81	0.00	RD 13/16 (52)	do	z 77 0.43	do	208 - 0 7/8"		
4.13	6.61	0.00	do	do	z 84 0.58	1'-8"	200 - 0 7/8"		
4.14	7.68	0.00	RD 3/4 (48)	do					
Diagonal Towards Center									
5.2	0.00	-7.97	RD 3/4 (48)	do	z 75 0.81	1'-5 7/8"	200 - 1"		
5.3	0.00	-8.19	RD 13/16 (52)	do	z 77 0.81	1'-8"	208 - 1"		
5.4	0.00	-7.12	RD 13/16 (52)	do	z 77 0.70	do	208 - 0 7/8"		
5.5	0.00	-6.04	RD 11/16 (44)	do	z 91 0.98	do	193 - 0 3/4"		
5.6	0.00	-2.53	do	do	z 91 0.85	do	do		
5.7	0.00	-2.53	do	do	z 91 0.41	do	do		
5.8	2.53	0.00	do	do	z 91 0.23	do	do		
5.9	0.00	-2.53	do	do	z 91 0.41	do	do		
5.10	0.00	-2.53	do	do	z 91 0.55	do	do		
5.11	0.00	-3.38	do	do	z 91 0.72	do	do		
5.12	0.00	-4.45	do	do	z 91 0.90	do	193 - 0 3/4"		
5.13	0.00	-5.53	RD 11/16 (44)	do	z 91 0.90	do	208 - 0 7/8"		
5.14	0.00	-6.61	RD 13/16 (52)	do	z 77 0.98	1'-8"	208 - 0 7/8"		
5.15	0.00	-7.68	do	do	z 77 0.98	do	200 - 0 7/8"		
5.16	0.00	-7.52	RD 3/4 (48)	do	z 75 0.86	1'-5 7/8"	200 - 0 7/8"		
Secondary Web Member									
7.2	0.00	-0.62	RD 3/4 (48)	do	z 68 0.07	1'-4"	200 - 0 3/4"		
7.3	0.00	-0.61	RD 3/4 (48)	do	z 68 0.07	1'-4"	200 - 0 3/4"		
VIBRATION (ALLER-MURRAY)									
- Full height partition between floor = (.51 k a/g)									
- Removable partition on all the surface = (.84 k a/g)									
- Without partition = (1.26 k a/g)									