

1) COLUMN

	P	Y	x	M	Y	x	Q	Y
L	1.7		0	0.6		0	0.3	
E	2.2	0.2	3.7	1.4		2.5	1.2	
S	3.4	1.9	4.0	2.1		5.0	2.7	
	4.0	1.5	4.0	2.4		5.0	2.7	

$b \times D = 2.8 \times 2.8$ $sQ_A = 5.1$

	P/100	Y	x	M/100	Y	x	P*	Y	x	A*	Y	x	M	Y
L	2.2		0	3.4		-	0.14							
E	2.0	2.4	12.6	13.6		0.09	0.54		6.2			2-D22	2-D22	
S	4.0	1.9	22.5	13.6		0.09	0.54		7.4	4.2		2-D22	2-D22	

	P	Y	x	M	Y	x	Q	Y
L	1.9		0	0.9		0	0.4	
E	2.6	0.3	3.6	1.4		2.3	1.2	
S	2.8	2.2	4.5	2.5		5.6	2.3	
	4.0	1.6	4.5	2.5		5.6	2.3	

$b \times D = 2.9 \times 2.9$ $sQ = 5.1$

$\Delta Q = 5.6 - 5.1 = 0.5$
 $\frac{\Delta Q}{Q} = 0.9$
 $PW = 0.25$
 $DIO \approx 14.3 / 2.9 \approx 204$

	P/100	Y	x	M/100	Y	x	P*	Y	x	A*	Y	x	M	Y
L	2.4		0	4.0		-	0.13							
E	2.2	2.8	20.3	14.1		0.02	0.54		6.1			2-D27	2-D27	
S	4.0	2.0	25.4	14.1		1.03	0.54		8.0	4.2		3-D27	2-D27	

	P	Y	x	M	Y	x	Q	Y
L	1.0		0.1	4.2		0	1.5	
E	2.5	1.7	3.0	12.3		1.4	4.1	
S	1.5	16.0	4.5	16.5		3.3	9.7	
	4.0	1.3	4.5	16.5		3.3	9.7	

$b \times D = 7.5 \times 2.2$

$sQ_A = 12.6$
 $sQ_B = 15.4$

	P/100	Y	x	M/100	Y	x	P*	Y	x	A*	Y	x	M	Y
L	1.7		0.2	3.0		-								
E	2.0	2.0	9.6	10.5		0.30	0.33		6.3	6.9		3-D19	4-D19	
S	4.0	6.3	9.6	10.5		0.30	0.33		6.3	6.9		3-D19	4-D19	

x	P	Y	x	H	Y	x	G	Y
12.6			0	5.5		0	1.9	
14.8	0		4.0	2.7		1.5	0.4	
18.4	12.6		4.9	3.4		3.0	3.7	

$b \times D = 175 \times 2.8$

x	P	Y	x	H/bD^2	Y	x	P	Y	x	d	Y	x	n	Y
6.0			0	3.6		-	0.01							
14.8	6.0		10.4	5.4		0.24	0.12		4.8	2.5		2.019	2.019	

x	P	Y	x	H	Y	x	G	Y
12.6			0	5.5		0	2.0	
14.8	0		4.0	1.4		1.5	4.6	
18.4	12.6		4.9	1.6		3.0	11.2	

$b \times D = 175 \times 2.8$

x	P	Y	x	H/bD^2	Y	x	P	Y	x	d	Y	x	n	Y
6.0			0	3.6		-	0.06							
14.8	6.0		10.4	12.5		0.22	0.43		6.7	2.0		3.019	4.019	

x	P	Y	x	H	Y	x	G	Y
12.6			0.3	0.2		0.1	0.1	
14.8	0.6		3.5	5.3		1.3	2.0	
18.4	12.6		4.3	6.5		3.7	4.1	

$H/b = 5.90 / 2.8 = 2.11$
 $b = 1.31$

$b \times D = 60 \times 2.8$

x	P	Y	x	H/bD^2	Y	x	P	Y	x	d	Y	x	n	Y
15.3			1.0	0.3		-								
16.3	15.3		15.3	3.6		0.45	0.12		7.6	2.0		3.019	3.019	

x	P	Y	x^2	Y^2	xY	Y
100	0.1	0	10000	0	0	0
100	0.2	10	10000	100	1000	10
100	0.3	20	10000	400	2000	20
100	0.4	30	10000	900	3000	30
100	0.5	40	10000	1600	4000	40
100	0.6	50	10000	2500	5000	50
100	0.7	60	10000	3600	6000	60
100	0.8	70	10000	4900	7000	70
100	0.9	80	10000	6400	8000	80
100	1.0	90	10000	8100	9000	90

$b \times D = 40.5$

2.6×10.1

P	Y	x^2	Y^2	xY	Y
0.2	10	100	100	2000	10
0.3	20	100	400	6000	20
0.4	30	100	900	12000	30
0.5	40	100	1600	20000	40
0.6	50	100	2500	30000	50
0.7	60	100	3600	42000	60
0.8	70	100	4900	56000	70
0.9	80	100	6400	72000	80
1.0	90	100	8100	90000	90

$\Sigma Y = 12 - 0.13$

P	Y	x^2	Y^2	xY	Y
0.1	0	100	0	0	0
0.2	10	100	100	2000	10
0.3	20	100	400	6000	20
0.4	30	100	900	12000	30
0.5	40	100	1600	20000	40
0.6	50	100	2500	30000	50
0.7	60	100	3600	42000	60
0.8	70	100	4900	56000	70
0.9	80	100	6400	72000	80
1.0	90	100	8100	90000	90

$b \times D = 75 \times 2.4$

P	Y	x^2	Y^2	xY	Y
0.1	0	100	0	0	0
0.2	10	100	100	2000	10
0.3	20	100	400	6000	20
0.4	30	100	900	12000	30
0.5	40	100	1600	20000	40
0.6	50	100	2500	30000	50
0.7	60	100	3600	42000	60
0.8	70	100	4900	56000	70
0.9	80	100	6400	72000	80
1.0	90	100	8100	90000	90

$\Sigma Y = 10 - 2.19$

P	Y	x^2	Y^2	xY	Y
0.1	0	100	0	0	0
0.2	10	100	100	2000	10
0.3	20	100	400	6000	20
0.4	30	100	900	12000	30
0.5	40	100	1600	20000	40
0.6	50	100	2500	30000	50
0.7	60	100	3600	42000	60
0.8	70	100	4900	56000	70
0.9	80	100	6400	72000	80
1.0	90	100	8100	90000	90

$b \times D = 75 \times 2.2$

P	Y	x^2	Y^2	xY	Y
0.1	0	100	0	0	0
0.2	10	100	100	2000	10
0.3	20	100	400	6000	20
0.4	30	100	900	12000	30
0.5	40	100	1600	20000	40
0.6	50	100	2500	30000	50
0.7	60	100	3600	42000	60
0.8	70	100	4900	56000	70
0.9	80	100	6400	72000	80
1.0	90	100	8100	90000	90

$\Sigma Y = 10 - 2.19$

	P	Y	x	M	Y	x	Q	Y
			0	02		0	01	
101			0	02		0	01	
	0.7		26	30		14	15	
			32	36				
101	10.8		37	34		2.8	31	
	9.4							

$b \times D = 2.8 \times 3.7$

	P/bD	Y	x	M/bD	Y	x	P	Y	x	A	Y	x	M	Y
			0	1.7		-	-							
120	13.9		1.81	2.15		0.12	0.27		4.8	6.8		2.022	2.022	
	12.1													

	P	Y	x	M	Y	x	Q	Y
			0	02		06	01	
11.8			0	01				
19	11		30	32		31	1.6	
			40	34				
12.9	12.9		40	40		6.8	3.3	
9.9	10.7							

$b \times D = 2.8 \times 2.8$

	P/bD	Y	x	M/bD	Y	x	P	Y	x	A	Y	x	M	Y
			40	1.1		-	-							
17.6	16.6		22.6	22.6		0.99	0.99		2.0	1.6		2.022	2.022	
12.9	13.2													

	P	Y	x	M	Y	x	Q	Y
			0	02		0	01	
22.4			0	01				
0.3	0.6		28	32		1.4	1.6	
			34	34				
3.1	3.4		34	34		2.8	3.3	
3.5	3.2							

$b \times D = 2.8 \times 2.8$

	P/bD	Y	x	M/bD	Y	x	P	Y	x	A	Y	x	M	Y
			0	1.1		-	-							
4.2	4.2		19.2	19.2		0.84	0.90		7.0	9.6		2.022	2.022	
4.8	4.4			22.6		1.23						2.022	2.022	

	P Y	x M Y	x Q Y
2011	2.4	2.4	2.6
	0.1	0.2	0.0
2012	4.2	1.4	5.6
	13.3	12.0	5.9
2013	17.4	17.2	17.6
	17.4	17.2	17.6

$b \times D = 40 \times 40$

	$\frac{P}{b \times D} Y$	x $\frac{M}{b \times D} Y$	x $\frac{Q}{b \times D} Y$	x $\frac{A}{b \times D} Y$	x $\frac{N}{b \times D} Y$
2011	4.0	4.0	-	-	-
2012	22.6	22.1	1.22	0.49	16.3
2013	16.3	15.6	4-D26	4-D28	

	P Y	x M Y	x Q Y
2011	1.3	0.2	0.5
	0.7	0.1	0.1
2012	10.9	11.9	4.5
	13.3	14.5	6.0
2013	14.0	14.6	11.5
	14.0	14.6	12.1

$b \times D = 40 \times 40$

	$\frac{P}{b \times D} Y$	x $\frac{M}{b \times D} Y$	x $\frac{Q}{b \times D} Y$	x $\frac{A}{b \times D} Y$	x $\frac{N}{b \times D} Y$
2011	2.2	0.3	-	-	-
2012	23.4	24.4	1.1	1.15	17.6
2013	17.6	18.6	4-D26	4-D28	

	P Y	x M Y	x Q Y
2011	6.0	0	2.1
	3.0	0	0
2012	21.0	4.6	10.6
	25.1	5.6	2.3
2013	28.7	5.6	23.3
	28.7	5.6	4.6

$b \times D = 60 \times 24$

	$\frac{P}{b \times D} Y$	x $\frac{M}{b \times D} Y$	x $\frac{Q}{b \times D} Y$	x $\frac{A}{b \times D} Y$	x $\frac{N}{b \times D} Y$
2011	6.0	0	0.17	-	-
2012	28.5	14.6	1.44	0.41	24.2
2013	24.2	6.9	5-D26	2-D26	

1) THE PEARL

PEARL VIA DIAMOND 35 x 40 $\rho = 72.6$ $w = 0.76$

$\mu_{OE} = 32 + 0 = 32$

$\mu_{EE} = 16 + 0 = 16$

$l = 232$ $w' = 2.72 + 0.76 \times 11 = 10.76$

$C = 1.76 \times 232^2 / 12 = 0.6$

$\mu_0 = \dots / \dots = 0.9$

$\theta = 1.76 \times 232 / 2 = 1.6$

$\mu_{ZE} = 1.2C = 0.72$

$\Sigma \mu_{EE} = 1.6 + 0.7 = 2.3$

$\rho_{OE} = 32 / (2.72 + 3.0) = 1.5$ $Z-DIG$

$\rho_{EE} = 16 / \dots = 1.1$ $Z-DIG$

2) CIVIL ENGINEERING

$\mu_{OE} = 45 + 0 = 45$

$\mu_{EE} = 25 + 0 = 25$

$\Sigma \mu_{EE} = 2.5 + 0 = 2.5$

$\rho_{OE} = 45 / (2.72 + 3.0) = 2.1$ $Z-DIG$

$\rho_{EE} = 25 / \dots = 1.5$ $Z-DIG$

3) CIVIL ENGINEERING 35 x 60 $\rho = 86.2$ $w = 0.51$

$\mu_{OE} = 40$

$\mu_{EE} = 2.3$

$l = 232 \times 2 = 464$ $w' = 0.51$ $\rho = 19^T$

$C = 0.51 \times 464^2 / 12 + 1.9 \times 464 / 3 = 0.92 + 1.10 = 2.0$

$\mu_0 = \dots / \dots = 1.77 + 2.20 = 3.6$

$\theta = 0.51 \times 464 / 2 + 1.9 \times 464 = 1.18 + 2.915 = 4.1$

$\Sigma \mu_{EE} = 2.3 + 2.0 \times 1.2 = 4.7$

$$Q_{15} = 4.0 / 0.463 \times 1.3 = 2.9 \quad Z = 0.19$$

$$Q_{18} = 4.7 / \dots = 3.4 \quad Z = -0.19$$

$$Q_{21} = 3.6 / 0.55 \times 2.0 = 3.9 \quad Z = 0.19$$

ΣCPII = 1.9

$$M_{0E} = 3.4 + 0.2 = 3.6$$

$$M_{0E} = 1.7 + 0 = 1.7$$

$$L = 1.9 \quad w = 0.18 + 0.55 \times 2.1 = 1.90 \quad C = 1.9$$

$$C = 1.90 \times 4.64 / 1.2 = 3.4 \quad 1.90 \times 2.3^2 / 1.2 = 0.9$$

$$M_0 = \dots / 1.0 = 5.1 \quad \dots / 1.0 = 1.3$$

$$Q = 1.90 \times 4.64 / 1.2 = 4.4 \quad 1.90 \times 2.3^2 / 1.2 = 2.2$$

0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15
0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27
+3.0	-3.4	+3.6	-3.6	+3.4	-1.4	+1.4	-1.3
+0.3	+1.1	0	0	-0.7	-1.3	-0.1	0
0	0	+0.5	-0.2	0	0	-0.6	0
0	0	-0.1	-0.1	0	0	+0.4	+0.2



$$\Sigma CPII = 1.7 - 3.4$$

$$Q_{1E} = 3.6 / 0.55 \times 2.0 = 1.7 \quad Z = -0.19$$

$$Q_{1E} = 3.7 / 0.776 \times 2.0 = 2.5 \quad Z = 0.19$$

ΣCPII = 1.9

$$M_{0E} = 2.5 \times 1.7 + 2.0 = 2.4$$

$$M_{0E} = 1.7 \times 1.7 - 0.2 = 0.2$$

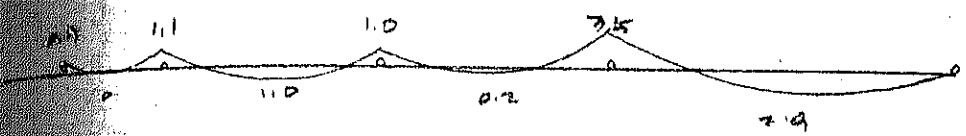
$$L = 6.06 \quad w' = 0.16$$

$$C = 0.16 \times 6.06^2 / 1.2 = 3.1$$

$$M_0 = \dots / 1.0 = 4.6$$

$$Q = 3.06 + 0.36 / 1.2 = 2.6$$

2.0	0	1.0	0	1.0	0	0.50
0.5	0.5	0.5	0.5	0.5	0.5	0.5
+1.2	-1.2	+1.2	-1.2	+1.2	-1.2	+1.2
0	0	0	0	0	0	0
+0.1	+1.0	-0.5	-0.6	0	0	0



$\Sigma M_{2E} = 3.2 + 3.5 = 11.7$

$M_{2E} = 2.0 / (0.726 \times 3.0) = 1.32 \quad \leftarrow \text{D22}$

$A_{2E} = 11.7 / \dots = 5.4 \quad \leftarrow \text{D22}$

For 1.0.3

$M_{2E} = 4.2 + 0.2 = 4.4$

$M_{2E} = 2.5 + 0 = 2.5$

$M_{2E} = 1.76 = 1.4 \times 1.2 = 1.7$

$\Sigma M_{2E} = 2.5 + 1.7 = 4.2$

$M_{2E} = 4.4 / (0.726 \times 3.0) = 2.0 \quad \leftarrow \text{D19}$

$A_{2E} = 4.2 / \dots = 1.9 \quad \leftarrow \text{D19}$

For 1.0.4

$M_{2E} = 2.1 + 0.4 = 2.5$

$2.1 + 0.3 = 2.4$

$M_{2E} = 7.5 + 0.6 = 8.1$

$6.4 + 0.5 = 6.9$

$M_{2E} = 1.2 + 0 = 1.2$

$3.3 + 0.1 = 3.4$

$M_{2E} = 10.4 + 1.4 = 12.3$

$9.0 + 1.3 = 11.3$

$l = 0.15 \quad w = 0.5$

$l = 7.96 \quad w = 0.76$

(7.96)

$C = 7.51 \times 0.15^3 / 12 = 2.4$

$0.76 \times 7.96^3 / 12 = 4.0$

19.4

$w = \dots / 1.2 = 4.2$

$\dots / 1.2 = 6.0$

29.1

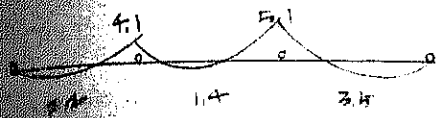
$0 = 0.51 \times 0.15 / 2 = 2.1$

$0.76 \times 7.96 / 2 = 3.0$

14.6

(3)

0.17	0.42	0.27	0.14
+42	-47	+40	-61
0	-0.2	+1.1	+0.9
+0.5	-0.1		
-0.1	-0.6	+0.1	



sol $b \times D = 30 \times 10 \quad j = 46.7$

$I_{top} = 21 + 0.2 + 4.1 = 6.5$

$a = 6.5 / (0.467 \times 3.0) = 4.7 \quad z = 0.19$

$I_{bot} = 35 \times 90 \quad j = 72.6$

$I_{top} = 6.5 + 4.1 = 12.4$

$I_{bot} = 12.4 + 5.1$

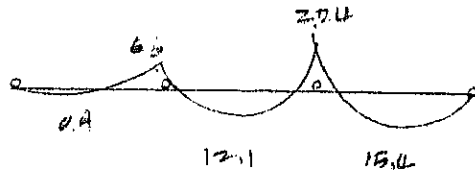
$a = 12.4 / (0.726 \times 3.0) = 5.7 \quad z = 0.19$

$b = 6.1 / (0.726 \times 3.0) = 2.8$

$c = 12.7 / (0.726 \times 3.0) = 5.6 \quad z = 0.19$

(1)

0.17	0.42	0.27	0.14
+42	-47	+40	-61
+2.1	+12.5	+5.5	+4.2
+2.1	+6.3		
-0.5	-2.2	-3.5	-2.7
	-1.7	-1.1	
+0.3	+1.4	+0.6	+0.5
+0.3	+0.7	+0.7	
-0.1	-0.2	-0.4	-0.3



$1.4 + 0.2 + 6.6 = 8.2$

$6.3 / (0.467 \times 3.0) = 9.7 \quad z = 0.19$

$L_{D1} = 12.7$

$6.9 + 6.6 = 13.5$

$2.4 + 27.4$

$13.5 / (0.726 \times 3.0) = 6.2 \quad z = 0.22$

$27.4 / (0.726 \times 3.0) = 12.9 \quad z = 0.22$

$11.7 / (0.726 \times 3.0) = 5.2 \quad z = 0.22$

$a_c = 15.4 / (0.726 \times 3.0) = 10.6 \quad z = 0.22$

$G = 14600 / (12.4 \times 10) = 20$

$\Delta \sigma = 1 + 6 + 27.4 / (14.6) - 12.7 = 5.3$

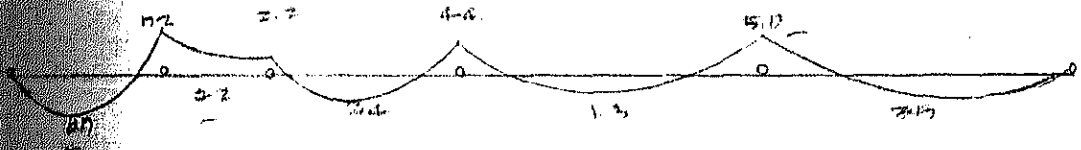
$\Delta \sigma / E = 2.09 \quad \rho_{10} = 0.41$

$D_{13} x = 25.4 / (35 \times 0.41) = 17.7 \rightarrow 15 \text{ (1)}$

111 A-E

	5.76	2.71	1.23	0.76	0.76
1	2.85	2.76	1.57	0.76	0.76
2	6.4	0.3	4.4	4.0	4.0
3	10.5	0.6	6.7	6.0	6.0
4	15.0	1.2	4.6	3.0	3.0

	1.11	0.343	1.37	1.0	0.75
0.11	0.16	0.11	0.29	0.52	0.42
+0.23	-0.3	+0.3	-0.1	+0.1	-0.0
-0.1	-0.6	+0.9	+1.2	-0.2	-0.2
-0.3	+1.0	-0.3	-0.1	+0.6	+0.5
-0.3	-1.1	+2.4	-1.1	-0.6	-0.16
-0.3	+1.4	-0.4	-0.3	+0.4	0
-0.3	-1.1	+0.3	+0.2	-0.3	-0.2
-0.1	+0.3	-0.2	-0.1		
-0.1	-0.2	+0.4	+0.2		



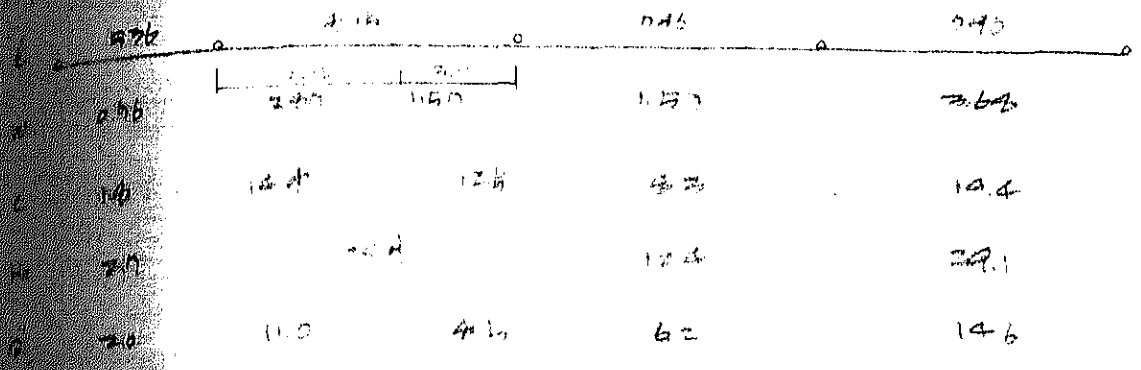
	1.2	0	2.1	0	2.1	0	0	0	1.9
2.4	1.2	2.7	2.2	1.1	2.2	1.5	1.2	1.7	10.4
1.6		2.1		1.0		1.2		1.7	4.6

	1.0	5.0	1.4	2.6	3.6	1.1	12.3
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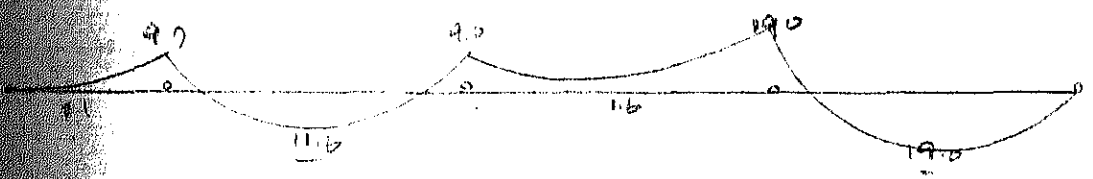
	4.6	2.3	6.2	11.5	2.4	3.4	2.3	15.6
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	2	2	2	2	2	2	2
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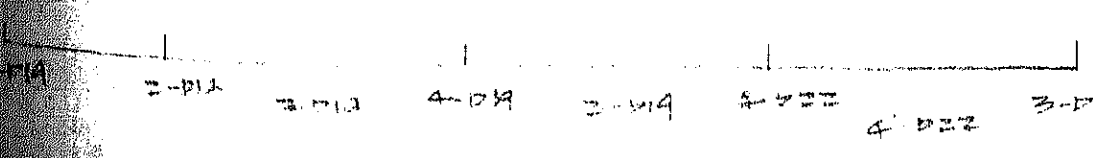
Handwritten title or label at the top left.



0.57	0.47	0.44	0.51	0.57	0.43
+2.7	-14.4	+12.6	-4.3	+4.3	-29.1
+6.4	+13.7	-2.1	-7.1	+11.5	+0.9
+0.8	+1.0	+2.4	+3.9	-1.0	+0.4
	+0.6	-0.1	-1.3	+0.6	+0.4
	-2.0	-0.2	+0.2	-2.1	
	+0.9	-0.2	-0.3	+0.2	+0.9
		+0.4	+0.6		
		-0.1	-0.1		



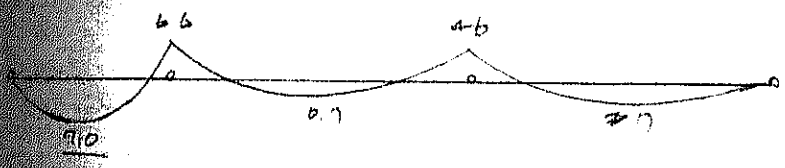
0.1	0	0.1	0.2	0.3	0.4	0.5
2.4	1.5	6.4	6.5	12.2	12.2	9.2



STANDARD

1	536	315	796
2	247	076	076
3	49	47	40
4	107	67	60
5	50	31	30

1.14	0	1.0	0	0.77
0.53	0.47	0.60	0.44	
+1.03	-4.2	+4.2	-6.0	
-3.2	-2.9	-1.0	+0.9	
	+2.5	-1.4		
-0.7	-0.2	-0.4	+0.6	
	+0.6	-0.1		
-0.2	-0.7	-0.7	0	



0.2	0.1	0	0	0.1	0.2
2.6	2.4	1.5	7.7	7.3	3.9

2.6	9.1	12.0	4.1
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4.4	4.2	5.5	1.4
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2	2	2	2	2	2
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STANDARD

$\Sigma F = 3.2 + 0.2 - 4.0$

$\Sigma M = 10.3$

$A_2 = 1.4 \quad 2 - 0.19$

$A_1 = 7.1 \quad 3 - 0.19$

FOOTINGS

$f_p 200g = 25 T$

$w = 0.9 \times 2.9 \times 10.76 \times 2.5 = 1.5$

$f_p' = 25 - 1.5 = 23.5$

		WALL	FG	IP	200' m	l x l'
	200		44	35.2	1	90 x 90
	173.0	0.91 x 1.02 0.83				
		2.91 x 2.06 10.96	11.50	33.3	3	90 x 2170
	152.6	0.91 x 2.04 1.65	66.4	20.4	2	90 x 180
	207.2	2.91 x 5.42 15.77	73.1	43.6	3	90 x 2170
	200.7		9.56	40.3	3	
		0.91 x 1.02 0.83				
	152.2	2.91 x 2.06 10.96	39.1	31.2	2	90 x 180
	150.9	0.91 x 2.04 1.65	47.2	22.3	2	"
		0.91 x 1.02 0.83				
	173	1.75 x 2.52 3.42	39.2	14.5	1	90 x 90
	150.7	0.91 x 2.04 1.65	11.76	11.1	1	"
		0.91 x 2.04 1.65				
	120	1.75 x 1.64 2.21	2.30	17.3	1	
	114					
	110	1.75 x 4.02 6.37	66.2	25.7	2	90 x 180
	212	1.75 x 6.20 6.41	30.5	40.0	3	90 x 2170
	201	1.75 x 4.56 6.16	77.7	40.0	3	"
	100		3.10	11.1	1	90 x 90
	200	0.91 x 2.06 4.01	24.6	35.7	3	90 x 2170
	200		7.48	46.0	3	"
	200		10.53	40.9	4	100 x 180
	200	0.91 x 5.36 2.62	7.11	35.6	3	90 x 2170
	200	2.91 x 2.06 10.96				
		0.91 x 1.02 0.83	6.62	44.2	4	1000 x 180
	100	0.91 x 2.04 1.65	4.02	16.7	1	90 x 90

F1 90×110 $D = 60$ $A = 463$
 $a = 15 - 0.16$

F2 90×110 $D = 60$
 $\sigma_p = 21.4 / 1.3 = 16.5$

$T_b = 12.200 / 3.14 \times 463 = 3.8 < 15.0$

$B = 15.000 / 463 \times 15 = 23$

$A = 16.500 \times 21.4 / 0.463 \times 23 = 7.8$ } $6-016$

F3 90×110

$\sigma_p = 463 / 28 = 16.5$

$B = 12.200 / 463 \times 15 = 22.0$

$A = 16.500 \times 21.4 / 0.463 \times 20 = 14.4$ } $6-019$

F4 100×100

$\sigma_p = 443 / 36 = 12.3$

$T_b = 12.200 / 3.14 \times 100 = 4.4 < 15.0$

$B = 26.000 / 443 \times 15 = 25.4$

$A = 12.300 \times 26.0 / 0.443 \times 20 = 12.0$ } $6-019$