


QUANTITIES

SKEW ANGLE DEGREE	FLARE ANGLE DEGREE	NOMINAL PIPE DIAMETER	TWIN PIPE						ADDITIONAL PIPE	
			TYPE 1 SLOPE AT 1.5:1		TYPE 2 SLOPE AT 2:1		TYPE 3 SLOPE AT 3:1		CONC. VOLUME (m <sup>3</sup> )	REINF. (m)
			CONC. VOLUME (m <sup>3</sup> )	REINF. (m)	CONC. VOLUME (m <sup>3</sup> )	REINF. (m)	CONC. VOLUME (m <sup>3</sup> )	REINF. (m)		
15	30	1350	7.69	85.1	8.97	88.2	11.55	94.5	2.03	38.0
		1500	9.32	92.9	10.91	96.3	14.09	103.4	2.47	41.6
		1650	11.18	101.0	13.13	104.8	17.01	112.8	2.95	45.4
		1800	13.26	109.1	15.60	113.3	20.29	122.1	3.45	49.1
		1950	15.71	117.5	18.59	122.1	24.34	131.8	3.92	52.5
		2100	18.43	125.7	21.91	130.8	28.89	141.4	4.43	55.8
30	30	1350	9.52	92.7	11.13	96.5	14.36	104.4	2.50	40.9
		1500	11.59	101.2	13.58	105.5	17.56	114.4	3.06	44.8
		1650	13.97	110.1	16.40	114.9	21.27	124.8	3.68	48.8
		1800	16.62	119.0	19.55	124.3	25.42	135.2	4.31	52.9
		1950	19.76	128.2	23.36	134.0	30.58	146.0	4.93	56.5
		2100	23.26	137.2	27.63	143.6	36.38	156.8	5.61	60.0
45	20	1350	11.30	98.7	13.17	103.2	16.92	112.4	2.42	39.3
		1500	15.36	116.2	17.67	121.3	22.29	131.6	4.54	51.6
		1650	18.97	128.5	21.80	134.1	27.45	145.7	5.92	58.2
		1800	22.17	136.8	25.58	143.0	32.39	155.7	6.54	61.0
		1950	26.40	147.3	30.59	154.1	38.97	168.2	7.57	65.2
		2100	31.11	157.7	36.19	165.1	46.35	180.5	8.69	69.3

NOTES :

1. REFER SD 1911 FOR CULVERT DETAILS.
2. ALL REINFORCEMENT BARS ARE 12 mm DIAMETER.
3. 10% ALLOWANCE HAS BEEN MADE FOR ON-SITE CUTTING AND SPLICING OF REINFORCEMENT

E				GENERAL NOTES / CROSS REFERENCES 1. THE QUANTITIES ARE PROVIDED AS A GUIDE ONLY. IT IS THE RESPONSIBILITY OF THE CONTRACTORS AND USERS OF THIS DRAWING TO CHECK AND ENSURE THAT THE QUANTITIES ARE ACCURATE BEFORE THEY ARE USED.	 PRINCIPAL ROAD DESIGN ENGINEER'S DEPARTMENT	STANDARD DRAWING MASS CONCRETE WINGWALL QUANTITIES SKEW MULTIPLE PIPE CULVERTS 1350 TO 2100 DIA. TYPES 1, 2 & 3				
D						APPROVED <i>J. Cunningham</i> DATE 12.95	SPEC. REF. No.	SHEET No.	DRAWING No.	AMENDMENT
C									SD 1912	
B										
A										
AMEND.	Appd.	Date		AMENDMENTS						