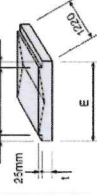
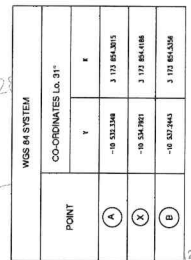
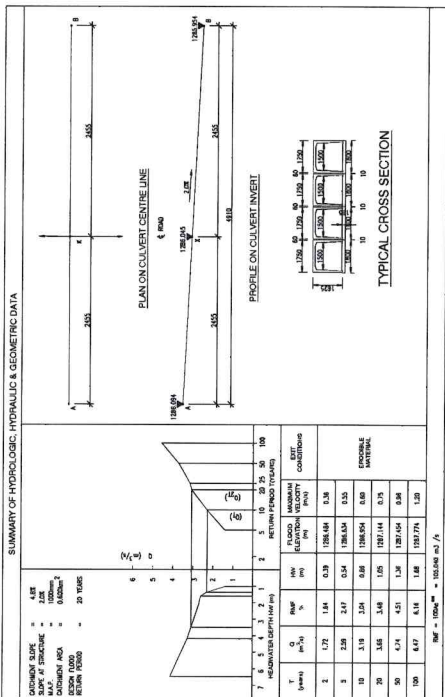
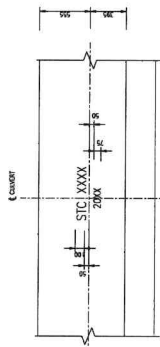
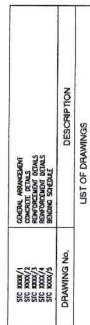
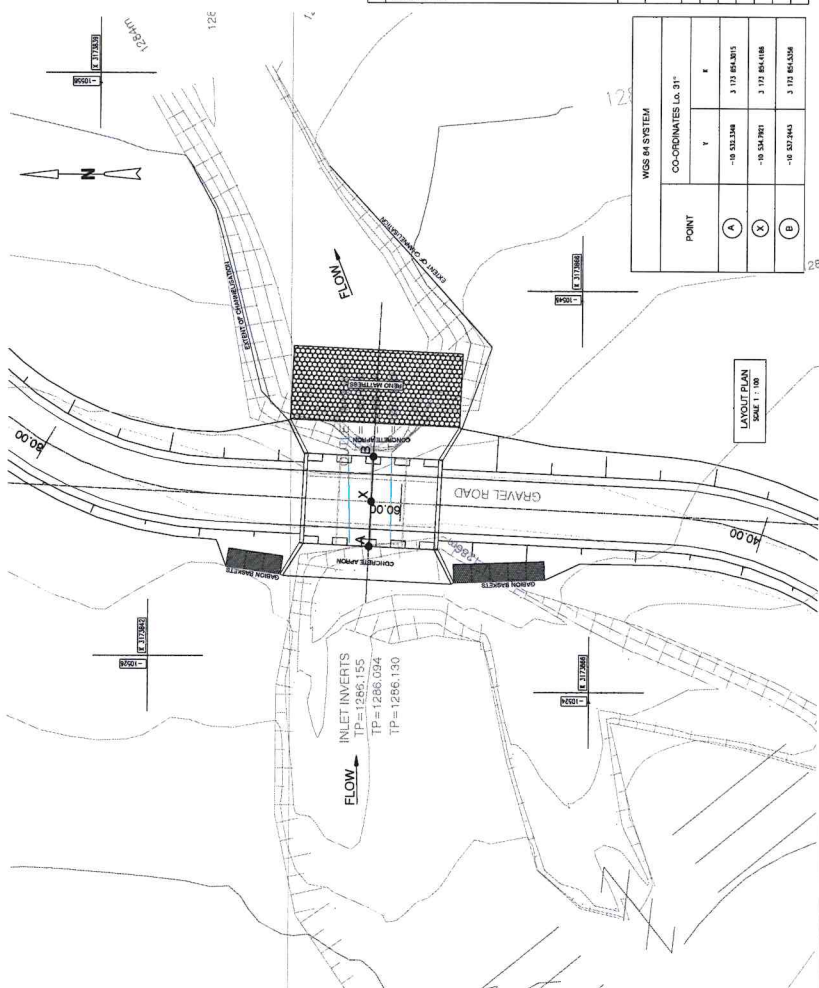
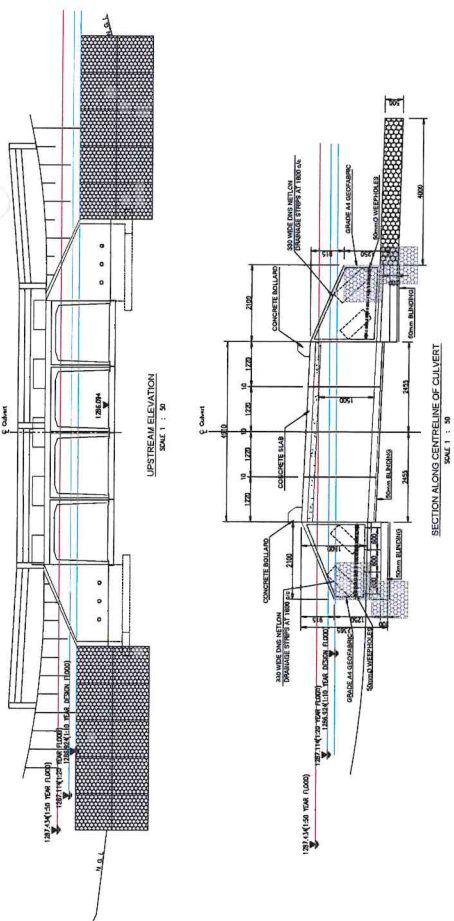


MEMBER	BAR MARK	TYPE AND SIZE	NO. OF BARS IN EACH	TOTAL NO.	LENGTH (mm)	SHAPE CODE	A (mm)	B (mm)	C (mm)	D (mm)	Mass (kg)
DOWELS	100	Y20	20	20	1000						
LEFT WINGWALL	300	Y16	7	7	2100	62	560	290			
	301	Y16	7	7	2025	62	500	90			
	302	Y16	1	1	1590	62	550	290			
	303	Y16	1	1	1175	62	500	90			
	304	Y16	1	1	1175	62	550	290			
	305	Y16	1	1	2025	62	500	90			
	306	Y16	1	1	1380	62	500	90			
	307	Y16	1	1	925	62	500	90			
	308	Y16	1	1	460	62	500	90			
	309	Y16	1	1	460	62	500	90			
	310	Y16	24	24	1650	37	140				
	311	Y16	61	61	1720	37	140				
RIGHT WINGWALL	310	Y16	7	7	2100	62	560	290			
	311	Y16	7	7	2025	62	500	90			
	312	Y16	1	1	1590	62	550	290			
	313	Y16	1	1	1175	62	500	90			
	314	Y16	1	1	680	62	550	290			
	315	Y16	1	1	680	62	500	90			
	316	Y16	1	1	1380	62	500	90			
	317	Y16	1	1	925	62	500	90			
	318	Y16	1	1	460	62	500	90			
	319	Y16	1	1	460	62	500	90			
	320	Y16	48	48	1450	37	140				
	321	Y16	24	24	1650	37	140				
	322	Y16	61	61	1720	37	140				
BOLLARDS	400	Y10	4	40	1180	35	350				
	401	Y10	4	40	750	20					

## SLABS FOR RECTANGULAR PORTAL CULVERT



Culvert Span	Max Slab Length	Dimensions								Approximate Mass Per
		S	L	A	B	C	D	E	F	
mm	mm	mm	mm	mm	mm	mm	mm	mm	kg/cu.m	
450	450	640	65	95	450	136	166			
600	600	800	85	95	600	215	262			
750	750	950	100	100	750	297	362			
900	900	1100	115	115	900	370	450			
1050	1050	1250	130	130	1050	450	540			
1200	1200	1400	145	145	1200	530	640			
1350	1350	1550	160	160	1350	610	740			
1500	1500	1700	175	175	1500	690	840			
1650	1650	1850	190	190	1650	770	940			
1800	1800	2000	205	205	1800	850	1040			
2000	2000	2200	225	225	2000	950	1140			
2200	2200	2400	245	245	2200	1050	1240			
2400	2400	2600	265	265	2400	1150	1340			
2600	2600	2800	285	285	2600	1250	1440			
2800	2800	3000	305	305	2800	1350	1540			
3000	3000	3200	325	325	3000	1450	1640			
3200	3200	3400	345	345	3200	1550	1740			
3400	3400	3600	365	365	3400	1650	1840			
3600	3600	3800	385	385	3600	1750	1940			
3800	3800	4000	405	405	3800	1850	2040			
4000	4000	4200	425	425	4000	1950	2140			
4200	4200	4400	445	445	4200	2050	2240			
4400	4400	4600	465	465	4400	2150	2340			
4600	4600	4800	485	485	4600	2250	2440			
4800	4800	5000	505	505	4800	2350	2540			
5000	5000	5200	525	525	5000	2450	2640			
5200	5200	5400	545	545	5200	2550	2740			
5400	5400	5600	565	565	5400	2650	2840			
5600	5600	5800	585	585	5600	2750	2940			
5800	5800	6000	605	605	5800	2850	3040			
6000	6000	6200	625	625	6000	2950	3140			
6200	6200	6400	645	645	6200	3050	3240			
6400	6400	6600	665	665	6400	3150	3340			
6600	6600	6800	685	685	6600	3250	3440			
6800	6800	7000	705	705	6800	3350	3540			
7000	7000	7200	725	725	7000	3450	3640			
7200	7200	7400	745	745	7200	3550	3740			
7400	7400	7600	765	765	7400	3650	3840			
7600	7600	7800	785	785	7600	3750	3940			
7800	7800	8000	805	805	7800	3850	4040			
8000	8000	8200	825	825	8000	3950	4140			
8200	8200	8400	845	845	8200	4050	4240			
8400	8400	8600	865	865	8400	4150	4340			
8600	8600	8800	885	885	8600	4250	4440			
8800	8800	9000	905	905	8800	4350	4540			
9000	9000	9200	925	925	9000	4450	4640			
9200	9200	9400	945	945	9200	4550	4740			
9400	9400	9600	965	965	9400	4650	4840			
9600	9600	9800	985	985	9600	4750	4940			
9800	9800	10000	1005	1005	9800	4850	5040			
10000	10000	10200	1025	1025	10000	4950	5140			
10200	10200	10400	1045	1045	10200	5050	5240			
10400	10400	10600	1065	1065	10400	5150	5340			
10600	10600	10800	1085	1085	10600	5250	5440			
10800	10800	11000	1105	1105	10800	5350	5540			
11000	11000	11200	1125	1125	11000	5450	5640			
11200	11200	11400	1145	1145	11200	5550	5740			
11400	11400	11600	1165	1165	11400	5650	5840			
11600	11600	11800	1185	1185	11600	5750	5940			
11800	11800	12000	1205	1205	11800	5850	6040			
12000	12000	12200	1225	1225	12000	5950	6140			
12200	12200	12400	1245	1245	12200	6050	6240			
12400	12400	12600	1265	1265	12400	6150	6340			
12600	12600	12800	1285	1285	12600	6250	6440			
12800	12800	13000	1305	1305	12800	6350	6540			
13000	13000	13200	1325	1325	13000	6450	6640			
13200	13200	13400	1345	1345	13200	6550	6740			
13400	13400	13600	1365	1365	13400	6650	6840			
13600	13600	13800	1385	1385	13600	6750	6940			
13800	13800	14000	1405	1405	13800	6850	7040			
14000	14000	14200	1425	1425	14000	6950	7140			
14200	14200	14400	1445	1445	14200	7050	7240			
14400	14400	14600	1465	1465	14400	7150	7340			
14600	14600	14800	1485	1485	14600	7250	7440			
14800	14800	15000	1505	1505	14800	7350	7540			
15000	15000	15200	1525	1525	15000	7450	7640			
15200	15200	15400	1545	1545	15200	7550	7740			
15400	15400	15600	1565	1565	15400	7650	7840			
15600	15600	15800	1585	1585	15600	7750	7940			
15800	15800	16000	1605	1605	15800	7850	8040			
16000	16000	16200	1625	1625	16000	7950	8140			
16200	16200	16400	1645	1645	16200	8050	8240			
16400	16400	16600	1665	1665	16400	8150	8340			
16600	16600	16800	1685	1685	16600	8250	8440			
16800	16800	17000	1705	1705	16800	8350	8540			
17000	17000	17200	1725	1725	17000	8450	8640			
17200	17200	17400	1745	1745	17200	8550	8740			
17400	17400	17600	1765	1765	17400	8650	8840			
17600	17600	17800	1785	1785	17600	8750	8940			
17800	17800	18000	1805	1805	17800	8850	9040			
18000	18000	18200	1825	1825	18000	8950	9140			
18200	18200	18400	1845	1845	18200	9050	9240			
18400	18400	18600	1865	1865	18400	9150	9340			
18600	18600	18800	1885	1885	18600	9250	9440			
18800	18800	19000	1905	1905	18800	9350	9540			
19000	19000	19200	1925	1925	19000	9450	9640			
19200	19200	19400	1945	1945	19200	9550	9740			
19400	19400	19600	1965	1965	19400	9650	9840			
19600	19600	19800	1985	1985	19600	9750	9940			
19800	19800	20000	2005	2005	19800	9850	10040			
20000	20000	20200	2025	2025	20000	9950	10140			
20200	20200	20400	2045	2045	20200	10050	10240			
20400	20400	20600	2065	2065	20400	10150	10340			
20600	20600	20800	2085	2085	20600	10250	10440			
20800	20800	21000	2105	2105	20800	10350	10540			
21000	21000	21200	2125	2125	21000	10450	10640			
21200	21200	21400	2145	2145	21200	10550	10740			
21400	21400	21600	2165	2165	21400	10650	10840			
21600	21600	21800	2185	2185	21600	10750	10940			
21800	21800	22000	2205	2205	21800	10850	11040			
22000	22000	22200	2225	2225	22000	10950	11140			
22200	22200	22400	2245	2245	22200	11050	11240			
22400	22400	22600	2265	2265	22400	11150	11340			
22600	22600	22800	2285	2285	22600	11250	11440			
22800	22800	23000	2305	2305	22800	11350	11540			
23000	23000	23200	2325	2325	23000	11450	11640			

[illegible]