

CULVERT SIZE DIAMETER (in.)	1 ½ : 1 Slope				2 : 1 Slope			
	EC-3 Type B	Depth (T) (18")	Depth (T) (24")	Depth (T) (36")	EC-3 Type B	Depth (T) (18")	Depth (T) (24")	Depth (T) (36")
	Sq. Yds.	Class A1 Cu. Yds.	Class I Cu. Yds.	Class II Cu. Yds.	Sq. Yds.	Class A1 Cu. Yds.	Class I Cu. Yds.	Class II Cu. Yds.
42	25.46	12.73	16.97	25.46	23.91	11.96	15.94	23.91
48	33.29	16.64	22.19	33.29	31.25	15.62	20.83	31.25
54	42.02	21.01	28.01	42.02	39.56	19.78	26.37	39.56
60	52.04	26.02	34.69	52.04	48.20	24.10	32.13	48.20
66	63.29	31.64	42.19	63.29	59.15	29.57	39.43	59.15
72	75.03	37.52	50.02	75.03	70.41	35.21	46.94	70.41
78	88.08	44.04	58.72	88.08	82.67	41.33	55.11	82.67
84	102.17	51.08	68.11	102.17	95.90	47.95	63.93	95.90

TABLE D-7 CULVERT OUTLET PROTECTION WITH ST'D. EW-2 ENDWALLS

CULVERT SIZE DIAMETER (in.)	Increments For Each Additional Pipe			
	EC-3 Type B	Depth (T) (18") Class A1	Depth (T) (24") Class I	Depth (T) (36") Class II
	Conc.	Conc.	Conc.	Conc.
	Sq. Yds.	Cu. Yds.	Cu. Yds.	Cu. Yds.
42	11.67	5.83	7.78	11.67
48	15.17	7.58	10.11	15.17
54	19.17	9.58	12.78	19.17
60	23.60	11.80	15.73	23.60
66	28.51	14.26	19.01	28.51
72	33.90	16.95	22.60	33.90
78	39.71	19.86	26.48	39.71
84	46.01	23.01	30.68	46.01

TABLE D-8 CULVERT OUTLET PROTECTION WITH ST'D. EW-7 ENDWALLS

Quantities To Be Used Only For Computations of Dry Rip Rap For Outlet Protection.*