Melinda L. McGrath
Deputy Executive Director/
Chief Engineer

Brenda Znachko
Deputy Executive Director/
Administration

MDOT
MISSISSIPPI DEPARTMENT OF TRANSPORTATION

Larry L. "Butch" Brown
Executive Director

Boteler
Steven K. Edwards
Director
Office of Intermodal Planning

Willie Huff
Director
Office of Enforcement

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Inter-Departmental Memorandum

Date: June 19, 2009

To: Design Team Leaders

From: Chet Reinike, PE JCR
Design Section Engineer

Subject: Type D Silt Basins

The quantities for rip rap and sediment control stone to be used in the construction of type D silt basins has been revised. Attached is a table reflecting the revised quantities.

For all projects that have not been let, the quantities for type D silt basins should be revised.

Attachments

pc: Roadway Design Division Engineer (Purvis)
Assistant Roadway Design Division Engineer (Reese)
Special Projects Engineer (Boteler)
Quality Control Engineer (Reeves)
Hydraulics Engineer (Holmes)
Roadway Design Section Engineers
District Construction Engineers
Active Consultants
FHWA

TYPE "D" SILT BASIN

6/19/2009

COORDINATE D.A. OF X-DR FOR LENGTH OF RIP-RAP DAM, THEN HEIGHT OF DAM TO PIPE SIZE AND/OR LAY OF LAND.

RIP RAP DAM LENGTH FEET	HEIGHT FEET	RIP RAP TONS	SED CTL STONE TONS	D. A. TRMT AC	EQUIV. PIPE SIZE INCHES
20	3	36.00	7.50	4.24	24
	4	57.60	11.25	5.36	24
	5	90.00	15.00	6.48	30
	6	129.60	18.75	7.6	30
25	3	45.00	9.38	5.68	30
	4	72.00	14.06	6.7	30
	5	112.50	18.75	8.1	30
	6	162.00	23.44	9.5	30
30	3	54.00	11.25	6.35	30
	4	86.40	16.88	8.04	30
	5	135.00	22.50	9.72	30
	6	194.40	28.13	11.4	36
40	3	72.00	15.00	8.47	30
	4	115.20	22.50	10.72	36
	5	180.00	30.00	12.96	36
	6	259.20	37.50	15.21	36
45	3	81.00	16.88	9.53	30
	4	129.60	25.31	12.06	36
	5	202.50	33.75	14.59	36
	6	291.60	42.19	17.11	42
50	3	90.00	18.75	10.58	36
	4	144.00	28.13	13.4	36
	5	225.00	37.50	16.2	42
	6	324.00	46.88	19	42

RIP RAP DAM LENGTH FEET	HEIGHT FEET	RIP RAP TONS	SED CTL STONE TONS	D. A. TRMT AC	EQUIV. PIPE SIZE INCHES
75	3	135.00	28.13	15.88	36
	4	216.00	42.19	20.1	42
	5	337.50	56.25	24.32	48
	6	486.00	70.31	28.52	48
100	3	180.00	37.50	21.17	42
	4	288.00	56.25	26.8	48
	5	450.00	75.00	32.42	48
	6	648.00	93.75	38.02	54
125	3	225.00	46.88	26.46	48
	4	360.00	70.31	33.5	48
	5	562.50	93.75	40.52	54
	6	810.00	117.19	47.54	54
150	3	270.00	56.25	31.76	48
	4	432.00	84.38	40.2	54
	5	675.00	112.50	48.64	54
	6	972.00	140.63	57.05	60
175	3	315.00	65.63	37.06	54
	4	504.00	98.44	46.91	54
	5	787.50	131.25	56.75	60
	6	1134.00	164.06	66.56	60
200	3	360.00	75.00	42.35	54
	4	576.00	112.50	53.61	60
	5	900.00	150.00	64.85	60
	6	1296.00	187.50	76.07	66