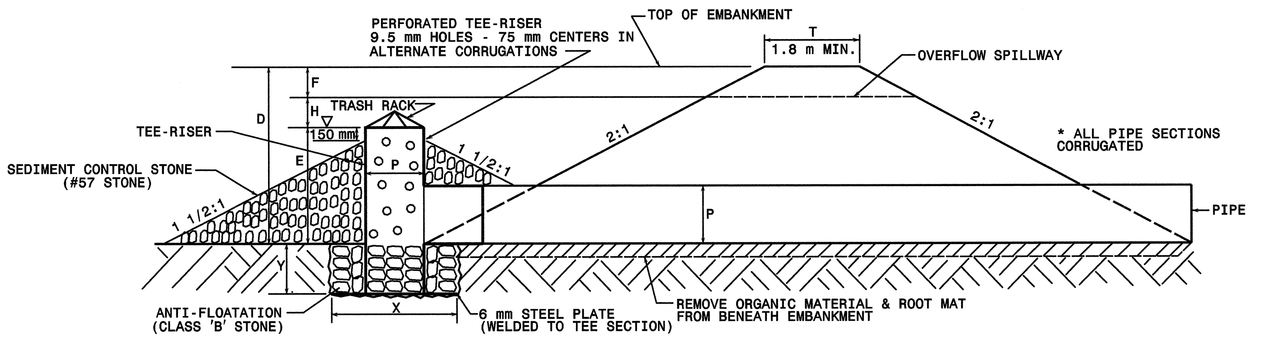
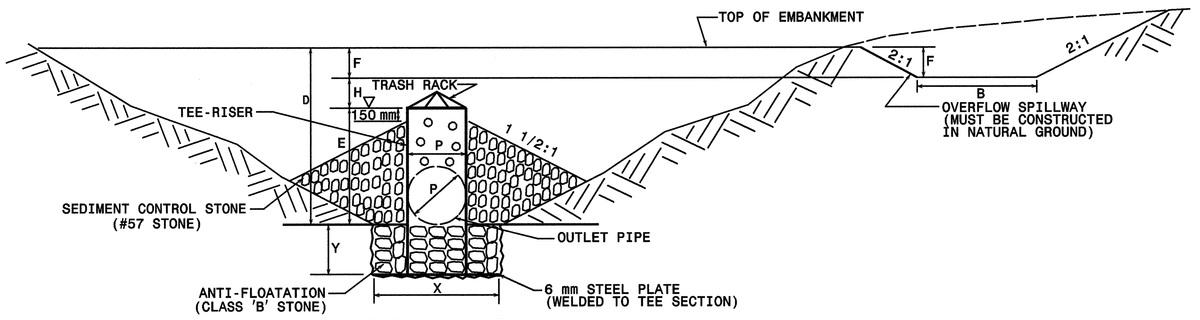
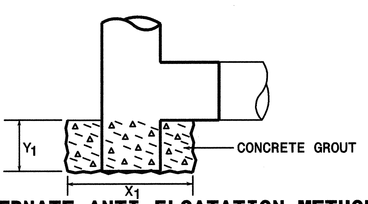


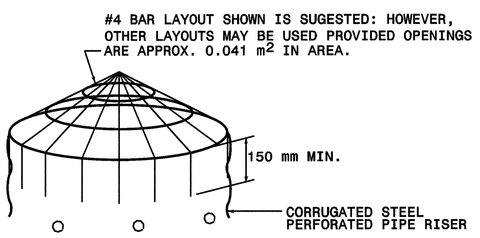
SECTIONAL VIEW



PROFILE VIEW



ALTERNATE ANTI-FLOATATION METHOD

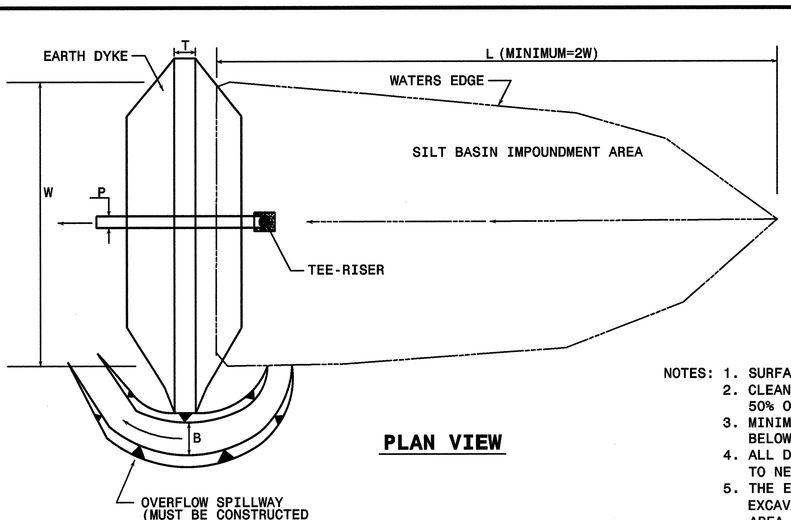


RISER DETAIL

SHEET 2 OF 2

SPECIAL DETAIL FOR TYPE "A" SILT BASIN

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS
RALEIGH, N.C.



PLAN VIEW

NOTES:
1. SURFACE AREA AND VOLUME ARE TO BE SITE SPECIFIC.
2. CLEAN OUT SEDIMENT WHEN STORAGE VOLUME REACHES 50% OF MIN. STORAGE VOLUME.
3. MINIMUM SURFACE AREA AND MINIMUM VOLUME ARE MEASURED BELOW THE TOP OF PRINCIPLE SPILLWAY (TOP OF RISER).
4. ALL DIMENSIONS OF BASIN WILL NOT REQUIRE CONSTRUCTION TO NEAT LINES.
5. THE EARTH DYKE MAY BE CONSTRUCTED ALONG ONE OR MORE SIDES. EXCAVATION MAY BE REQUIRED TO PROVIDE MINIMUM SURFACE AREA AND/OR MINIMUM STORAGE VOLUME.
6. THE DYKE SHALL BE CONSTRUCTED OF MATERIAL SUITABLE FOR AND MEETING ROADWAY EMBANKMENT SPECIFICATIONS.
7. TO FACILITATE DETERMINATION OF MAINTENANCE CLEANOUT REQUIREMENT A MARKER SHOULD BE PLACED IN THE BASIN INDICATING THE 50% VOLUME LEVEL.

BASIN #	APPROX. STA.	P	H	T (min)	D*	E	F	B (min)	X (min)	Y (min)	X_1 (min)	Y_1 (min)	SURFACE AREA (min)	STORAGE VOLUME (min)	SED. CONTROL STONE
		mm	m	m	m	m	m	m	m	m	m	m	m^2	m^3	m.ton
1	-LREV- LT 19+40	900	0.3	1.8	2.8	1.8	0.5	2.4	2.2	0.6	2.0	0.6	310	1095	30
2	-LREV- LT 30+70	800	0.3	1.8	3.6	1.85	0.45	2.44	1.6	0.6	1.8	0.6	241	720	30
3	-LREV- RT 43+20	450	0.3	1.8	3.6	1.67	0.3	2.4	1.4	0.3	1.2	0.3	300	91	17
4	-LREV- LT 50+50	600	0.3	1.8	2.8	1.2	0.5	2.1	1.7	0.3	1.5	0.3	300	660	7
5	-LREV- RT 72+20	900	0.3	1.8	3.6	1.8	0.5	2.4	2.2	0.6	2.0	0.6	322	642	27

* SHALL NOT EXCEED 3.7 m

HYDRAULICS ENGINEER

NORTH CAROLINA PROFESSIONAL SEAL 20737 ENGINEER JONATHAN KENMING SCARBOROUGH

12/10/04
P.E.
SIGNATURE

SHEET 1 OF 2

SPECIAL DETAIL FOR TYPE "A" SILT BASIN

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS
RALEIGH, N.C.

PROJ. REFERENCE NO.	SHEET NO.	TOTAL SHEETS
R-977A	2-0	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION