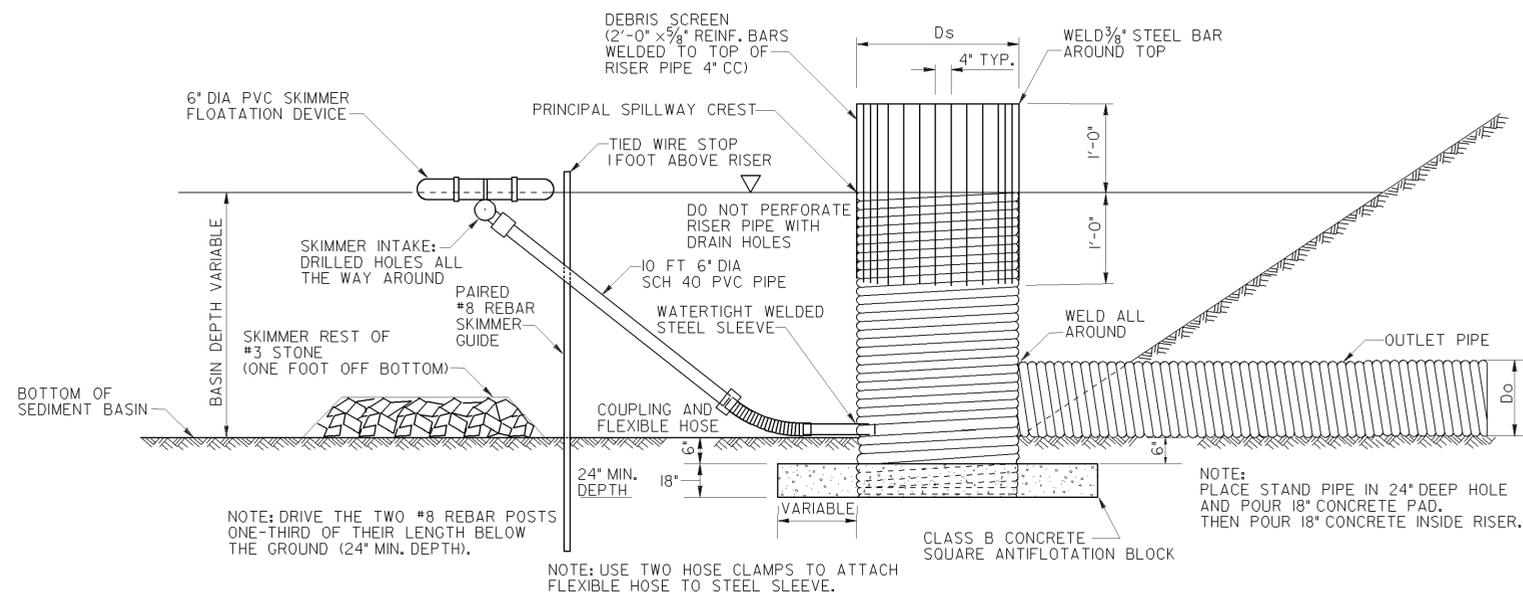
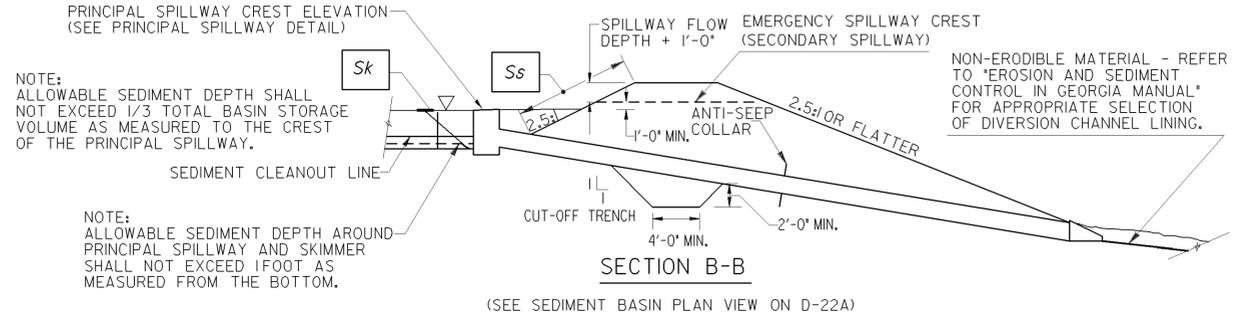


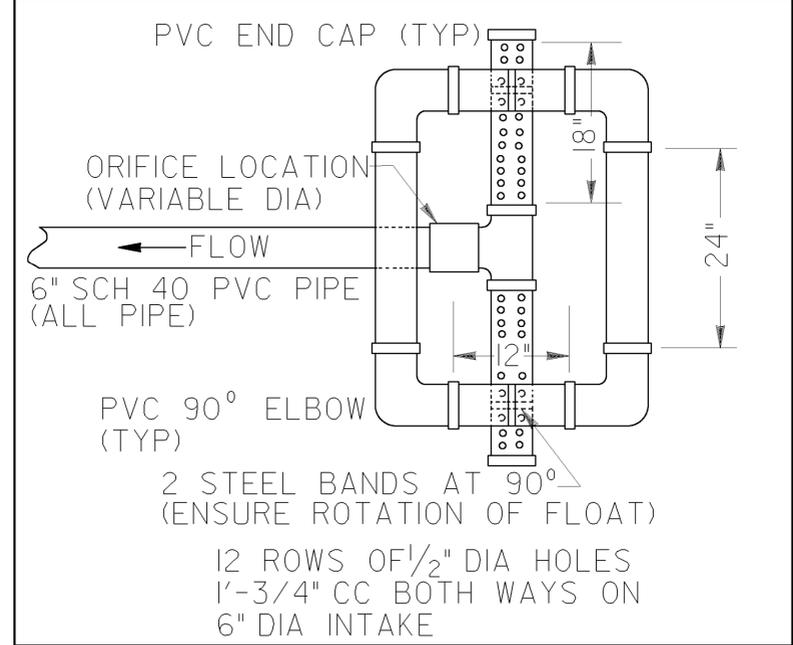
STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.			



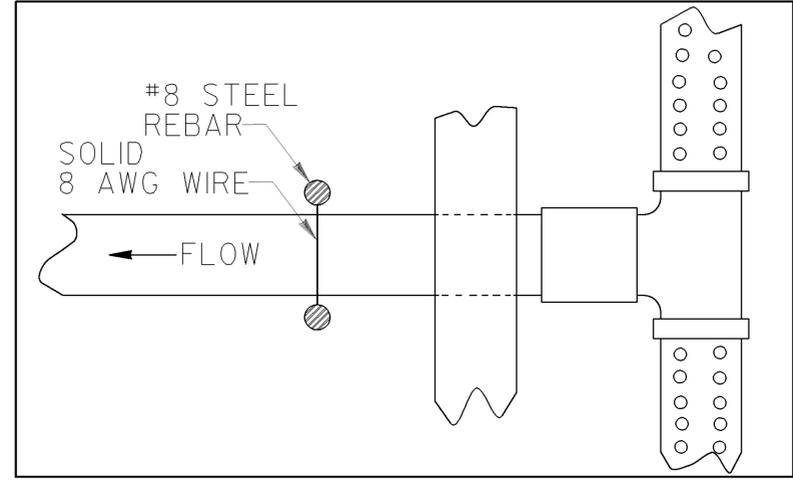
SKIMMER AND RISER PIPE PRINCIPAL SPILLWAY DETAIL



SKIMMER TOP VIEW DETAIL

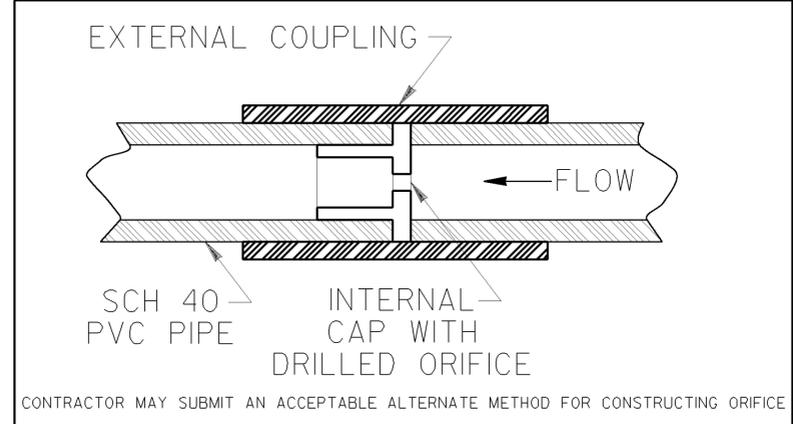


PAIRED #8 REBAR SKIMMER GUIDE TOP VIEW DETAIL



- GENERAL NOTES:
1. SEDIMENT BASINS ARE GENERALLY CONSTRUCTED AT THE TOE OF A SLOPE, EXCAVATED ON THE UPHILL SIDE, AND DAMMED ON THE DOWNHILL SIDE.
  2. SEDIMENT BASINS ARE DESIGNED TO HOLD A SEDIMENT LOAD OF 67 CUBIC YARDS OF VOLUME PER DRAINAGE ACRE.
  3. DESIGN THE SQUARE CONCRETE ANTI-FLOTATION BLOCK IN ACCORDANCE WITH THE GSWCC GREEN BOOK BUT WITHOUT REBAR.
  4. IF NECESSARY, ADD A SPECIAL CLEANOUT PENINSULA TO LARGE BASINS.
  5. SUFFICIENT EASEMENT IS NEEDED FOR BASINS AS WELL AS ACCESS FOR CLEANOUT VIA A ROUTE WITH A 3:1 SLOPE OR LESS.
  6. IN SECTION 54 OF THE ESPCP, SHOW THE FOOTPRINT OF EACH BASIN.
  7. REFER TO THE SEDIMENT BASIN TABLE IN THE ESPCP FOR BASIN-SPECIFIC DETAILS.
  8. OVERALL BASIN LENGTH TO WIDTH RATIO SHALL BE NO LESS THAN 2; IF NOT, USE BAFFLES TO INCREASE THE FLOW PATH LENGTH TO 2 TIMES THE BASIN WIDTH.
  9. DESIGN AND CONSTRUCT THE PRINCIPAL SPILLWAY TO CONVEY THE TOTAL 24-HOUR, 2-YEAR STORM; THE COMBINED PRINCIPAL AND EMERGENCY SPILLWAYS TO CONVEY THE TOTAL 25-YEAR STORM; AND THE SKIMMER ITSELF TO DRAIN THE BASIN WITHIN 24 TO 48 HOURS.
  10. EROSION CONTROL MATTING AND MATTING BLANKETS SHALL BE INSTALLED ON ALL INSIDE BASIN SLOPED AREAS FROM THE BASIN TOP EDGE TO THE BASIN BOTTOM EDGE.
  11. APPROVED EROSION CONTROL MATTING OR BLANKETS OR BONDED FIBER MATRIX SHALL BE APPLIED TO ALL 2.5:1 SLOPES OR GREATER SLOPES.
  12. ALL ITEMS SHOWN AND INCIDENTAL ITEMS NECESSARY FOR THE BASIN ARE TO BE INCLUDED IN THE OVERALL BID PRICE OF THE SEDIMENT BASIN (SECTION 163.5.C).
  13. CLEAN BASIN AROUND RISER AND SKIMMER WHEN SEDIMENT REACHES 1 FOOT OFF BOTTOM.
  14. CONTRACTOR MAY SUBMIT AN ACCEPTABLE ALTERNATE SKIMMER DESIGN FOR EACH CORRESPONDING SEDIMENT BASIN.

ORIFICE CONSTRUCTION DETAIL



ORIFICE DIAMETER IN INCHES

HYDRAULIC HEAD IN FEET	0.75	1	1.5	2	2.5	3	4	5	6
	DISCHARGE IN CUBIC FEET PER SECOND WITH 0.75 OF HEAD <sup>1</sup>								
	0.02	0.05	0.09	0.15	0.21	0.38	0.59	0.85	

<sup>1</sup>HEAD IS MEASURED FROM THE WATER SURFACE TO THE CENTROID OF THE ORIFICE AND THE DISCHARGE COEFFICIENT = 0.62

"GSWCC GREEN BOOK" REFERS TO THE MANUAL FOR EROSION AND SEDIMENTATION CONTROL IN GEORGIA.

DATE		DEPARTMENT OF TRANSPORTATION STATE OF GEORGIA	
REVISION		CONSTRUCTION DETAILS SKIMMER AND RISER PIPE PRINCIPAL SPILLWAY FOR TEMPORARY SEDIMENT BASIN	
NO SCALE		JUNE 2014	
BY		NUMBER D-22B (SHEET 2 OF 2)	