

GENERAL NOTES:

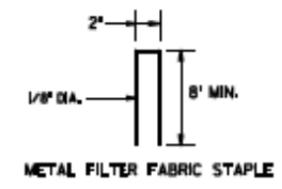
- A TEMPORARY SEDIMENT TRAP IS DESIGNED TO STORE A MINIMUM OF 67 CUBIC YARDS OF SEDIMENT PER UPSTREAM DRAINAGE ACRE. IT INCLUDES AN EMERGENCY SPILLWAY TO SAFELY CONVEY THE 10-YEAR STORM EVENT. THE MAXIMUM DRAINAGE AREA IS 5 ACRES.
A TEMPORARY SEDIMENT BASIN SHALL BE EVALUATED PRIOR TO CONSIDERING A TEMPORARY SEDIMENT TRAP.
- THE NATURAL TOPOGRAPHY SHOULD BE USED AS THE SEDIMENT STORAGE AREA. COMPACTED EARTHEN BERMS SHOULD BE CONSTRUCTED IN AREAS SHOWN IN THE EROSION, SEDIMENT AND POLLUTION CONTROL PLAN (ESPCP) TO PROVIDE THE REQUIRED SEDIMENT STORAGE NOTED IN THE SEDIMENT STORAGE TABLE OF THE ESPCP.
AN EXCAVATED AREA WITH A MINIMUM LENGTH TO WIDTH RATIO OF 2:1 AND MAXIMUM STORAGE DEPTH OF 4 FEET MAY BE CONSTRUCTED TO PROVIDE THE REQUIRED SEDIMENT STORAGE NOTED IN THE SEDIMENT STORAGE TABLE OF THE ESPCP. BAFFLES ARE REQUIRED WHEN THE LENGTH TO WIDTH RATIO IS LESS THAN 2:1 TO PROVIDE THE REQUIRED EFFECTIVE LENGTH. BAFFLES SHALL BE MADE OF EXTERIOR GRADE 1/2" THICK PLYWOOD MOUNTED ON 4"x4" HARDWOOD POSTS ADEQUATELY ANCHORED.
EARTHEN BERMS SHALL BE CONSTRUCTED AND COMPACTED IN 6 INCH MAXIMUM LAYERS TO A 5.50 FEET MAXIMUM HEIGHT MEASURED FROM THE DOWNSTREAM TOE OF SLOPE TO THE TOP OF THE BERM. CONSTRUCT EARTHEN BERMS WITH SOIL MATERIAL THAT CAN BE COMPACTED TO A UNIFORM DENSITY AS DIRECTED BY THE ENGINEER TO PREVENT SEEPAGE OR FAILURE OF THE EARTHEN BERM.
- SLOPES SHALL NOT EXCEED 2:1 FOR ANY EXCAVATIONS AND COMPACTED EARTHEN BERMS. AN AREA WITH A 3:1 MAXIMUM SLOPE SHOULD BE PROVIDED TO ALLOW EASY ACCESS FOR MAINTENANCE. APPROVED EROSION CONTROL MATTING SHALL BE INSTALLED ON EARTHEN SLOPES GREATER THAN 2:1.
- THE CLEANOUT VOLUME IS ONE-THIRD OF THE TOTAL STORAGE VOLUME. THE CLEANOUT VOLUME SHALL BE CALCULATED AND MARKED WITH A STAKE AT THE OUTLET.
- THE ROCK OUTLET AND EMERGENCY SPILLWAY SHALL BE MADE OF TYPE-3 RIPRAP FACED WITH #57 STONE ON THE UPSTREAM FACE. PLASTIC FILTER FABRIC IS REQUIRED UNDERNEATH RIPRAP. THE PLASTIC FILTER FABRIC SHOULD BE ENTRENCHED A MINIMUM OF 12" AT THE TOE OF THE UPSTREAM FACE AND EXTENDED 5' BEYOND DOWNSTREAM TOE OF SLOPE.
- THE DESIGNER SHALL PROVIDE THE LOCATION, LENGTH, WIDTH, Q_{50} , AND CLEANOUT ELEVATION FOR EACH TEMPORARY SEDIMENT TRAP IN THE ESPCP. THE DRAINAGE AREA AND SEDIMENT STORAGE VOLUME SHALL BE PROVIDED IN THE SEDIMENT STORAGE TABLE. REFER TO THE LATEST EDITION OF GSWCC'S 'MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA' FOR ADDITIONAL INFORMATION ON TEMPORARY SEDIMENT TRAPS.
- ALL ITEMS SHOWN AND INCIDENTAL ITEMS NECESSARY FOR THE CONSTRUCTION, REMOVAL, AND MAINTENANCE OF THE TEMPORARY SEDIMENT TRAP ARE TO BE INCLUDED IN THE RESPECTIVE OVERALL BID PRICE OF EACH TEMPORARY SEDIMENT TRAP.
- TEMPORARY SEDIMENT TRAPS SHALL NOT BE PLACED WITHIN FLOWING STREAMS OR IN A TIDAL AREA BELOW HIGH TIDE.

PAY ITEMS:

- 163-0535 CONSTRUCT AND REMOVE TEMPORARY SEDIMENT TRAP, STA NO- (EA)
- 165-0107 MAINTENANCE OF TEMPORARY SEDIMENT TRAP, STA NO- (EA)

**GROUND MAY BE EXCAVATED TO PROVIDE MAXIMUM STORAGE DEPTH OF 4 FEET.

Q_{50} (CFS)	EMERGENCY SPILLWAY WIDTH (ft)				
	≤ 20	$20 < \leq 24$	$25 < \leq 29$	$30 < \leq 33$	$34 < \leq 38$
W_s (FT)	8	10	12	14	16



DATE		DEPARTMENT OF TRANSPORTATION STATE OF GEORGIA	
REVISION		CONSTRUCTION DETAILS ROCK OUTLET TEMPORARY SEDIMENT TRAP	
NO SCALE		4-22-2016	
DESIGNED	FILE	NUMBER	
DRAWN	FILE	D-53	
TRACED	FILE		
CHECKED	FILE		



RELEASED FOR CONSTRUCTION 06/22/2016

NO.	DATE	REVISION

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE DELIVERY
**EROSION CONTROL
CONSTRUCTION DETAILS**
PROJECT: I-85 NORTH EXPRESS LANE EXTENSION
COUNTY: GWINNETT