

AS-BUILT PLANS 12/12/12

Georgia Department of Transportation ESPCP General Notes  
Updated: August 26, 2008

(Sheet 1 of 5)

**ESPCP GENERAL NOTES:**

The escape of sediment from the site shall be prevented by the installation of erosion and sediment control measures and practices prior to, or concurrent with, land disturbing activities.

Erosion control measures will be maintained at all times. If full implementation of the approved plan does not provide for effective erosion control, additional erosion and sediment control measures shall be implemented to control or treat the sediment source.

**PLAN ALTERATIONS**

The Erosion Sedimentation and Pollution Control Plan (ESPCP) is provided by the Department. It addresses the staged construction of the project based on common construction methods and techniques. If the Contractor elects to alter the stage construction from that shown in the plans or utilize construction techniques that render this plan ineffective, the Contractor shall revise the plans in accordance to Special Provision 161 of the contract.

The Contractor, the Certified Design Professional and the WECS shall carefully evaluate this plan prior to commencing land disturbing activities. A major modification or deletion of structural BMP's with a hydraulic component requires a formal revision of the ESPCP and the signature of a GSWCC level-II-certified design professional. Additional BMP's may be added per Special Provision 161 - Control of Soil Erosion and Sedimentation.

**TEMPORARY MULCHING**

EPD General Permit GAR 100002 states that "Any disturbed area left exposed for a period greater than 14 days shall be stabilized with mulch or temporary seeding." - However, the Department typically requires disturbed areas to be stabilized every 7 days. The construction documents, special provisions, or specifications may require mulching more often than 7 days.

**VEGETATION AND PLANTING SCHEDULE**

All temporary and permanent vegetative practices including plant species, planting dates, seeding fertilizer, lime and mulching rates for this project can be found in section 700 of the current edition of the Department's specifications and other applicable contract documents, special provisions, or landscaping plans.

**SEQUENCE OF MAJOR ACTIVITIES**

The Contractor is responsible for developing the construction schedule for the project. The construction schedule for this project shall be submitted with the NOI. A copy of the construction schedule shall be maintained at the project site.

The Initial BMP installation is shown in the initial phase and this includes all perimeter silt fence controls and retrofit BMP's for sediment basins 1 & 4. The silt fence and retrofits shall be installed concurrent with clearing and grubbing operations. Intermediate and final BMP's are shown throughout all stages of the intermediate phase. The BMP's to be installed during these stages are additional silt fence due to temporary pavement, filter rings, sediment inlet traps, ditch checks, slope mats, rip rap, construction exits, temporary grassing, mulching, permanent grassing, temporary pipe slope drains, and the remaining sediment basins 2A, 2B, 3, 5, 6, 7, & 8. These BMP's shall be installed concurrently with mass grading operations with the exception of ditch checks, inlet traps and filter rings which should be installed prior to mass grading operations. The contractor's grading plan shall be developed so that the sediment basins are constructed as early as possible during the mass grading operations. During mass grading operations, runoff from disturbed area must be directed to sediment control BMP's. Sediment basins are not utilized at all outfalls due to adverse impacts of constructing and removing the basin. Final BMP's included in this project are rip rap, grassing, and slope mats. These items are installed during mass grading operations, but are noted on the plans as permanent BMP's for final stabilization of that stage.

**PETROLEUM STORAGE, SPILLS AND LEAKS**

The plans provided herein do not anticipate the storage of petroleum products onsite. The Contractor shall at a minimum provide an action plan and keep the necessary materials on site for the capture and disposal of any petroleum product leaks or spills associated with the servicing, refueling or operation of any equipment utilized in the work. A copy of the action plan shall be submitted to the Project Engineer and maintained on the project site. All personnel operating or servicing equipment shall be familiar with this plan. The Contractor shall not park, refuel, or maintain equipment within stream buffers.

If the Contractor elects to store petroleum products on site, the Contractor shall prepare an ESPCP addendum that addresses the additional BMP's needed for onsite storage and spill prevention for petroleum products. This plan shall be prepared by a Certified Design Professional as required by GARI00002 for inclusion with these plans. The Contractor's attention is specifically directed to Standard Specification 107-Legal Regulations and Responsibility to the public for additional requirements.

**SOIL SERIES INFORMATION**

A project specific soil survey and geotechnical investigation was performed for this project and can be made available upon request. Soil characteristics have been given full consideration in the hydrologic analysis, the design of channels and linings, selection of temporary BMP's, design of energy dissipaters, and in the selection of permanent vegetation and fertilizers.

**POST-CONSTRUCTION BMP'S**

All permanent, post-construction BMP's are shown in the construction plans and in the ESPCP plan. The post-construction BMP's for this project consist of vegetation, permanent slope drains and/or flumes, rip-rap at pipe outlets for velocity dissipation and outlet stabilization, vegetated swales/ditches where practical, channel/ditch stabilization with Turf Reinforcing Mats, rip-rap and concrete ditch lining where necessary. The post-construction BMP's will provide permanent stabilization of the site and prevent accelerated transportation of sediment and pollutants into receiving waters.

**SILT FENCE INSTALLATIONS WITH J-HOOKS AND SPURS**

Silt fence should never be run continuously. The silt fence should turn back into the fill or slope to create small pockets that trap silt and force stormwater to flow through the silt fence. This technique, or configuration, is commonly referred to as J-hooks or spurs. The J-hooks shall be utilized on all silt fences that are located around the perimeter of the project and along the toe of embankments or slopes. The J-hooks shall be spaced in accordance with the Typical Location Details for silt fences/baled straw. Spacing for J-hooks shall not be less than 50 feet except as noted. Silt fences that are near the outlet of culverts, cross drains, and storm drains shall have a minimum of three (3) J-hooks on both sides of the structure at spacing not to exceed 30 feet. J-hooks shall be paid for as silt fence items per foot. All costs and other incidental items are included in cost of installing and maintaining the silt fence.

**MAINTENANCE AND STABILIZATION MEASURES**

See Special Provision 161 and 700 and other contract documents for maintenance and stabilization measures.

**WASTE DISPOSAL**

Where attainable, locate waste collection areas, dumpsters, trash cans and portable toilets at least 50 feet away from streets, gutters, watercourses and storm drains. Secondary containment shall be provided around liquid waste collection areas to minimize the likelihood of contaminated discharges. The Contractor shall comply with applicable state and local waste storage and disposal regulations and obtain all necessary permits. Solid materials, including building materials, shall not be discharged to waters of the State, unless authorized by a Section 404 Permit.

**INSPECTIONS**

All inspections shall be documented on the appropriate Department Inspection forms. See Special Provision 167 and other contract documents for inspection requirements. These inspections shall continue until the Notice of Termination (NOT) is submitted.

Failure to perform inspections as required by the contract documents and the NPDES permit shall result in the cessation of all construction activities with the exception of Traffic Control and Erosion Control. Continued failure to perform inspections shall result in non-refundable deductions as specified in the contract documents.

By agreement with Georgia EPD, the Department's Construction Project Engineer will be responsible for the seven day inspections required for new BMP installations.

In order to prevent runoff from bypassing inlet sediment traps, a temporary berm shall be installed on the downstream side of all inlet sediment traps that are not located in a low point or an excavated sump. Temporary berms, when necessary, shall be a minimum of 18" high and constructed in a manner that ensures stormwater does not bypass the inlet. The Contractor may submit alternate temporary containment berm designs to the Project Engineer for approval.

**MONITORING SAMPLING METHODS & PROCEDURES**

See Special Provision 167 and other contract documents for monitoring sampling methods and procedures.

**NON-STORM WATER DISCHARGES**

Non-storm water discharges defined in Part III.A.2 of the NPDES Permit will be identified after construction has commenced. These discharges shall be subject to the same requirements as storm water discharges required by the Georgia Erosion and Sedimentation Control Act, the NPDES Permit, the Clean Water Act, the Manual for Erosion and Sediment Control in Georgia, Department Standards, and contract documents.

**DE-WATERING ACTIVITIES AND USE OF PUMPS**

Any pumped discharge from an excavation or disturbed area shall be routed through an appropriately sized sediment basin, silt filter bag or shall be treated equivalently with suitable BMP's. The contractor shall ensure the post BMP treated discharge is sheet flowing. Failure to create sheet flow will obligate the contractor to perform water quality sampling of their pumped discharges. The contractor shall prepare sampling plans in accordance with the current GARI00002 NPDES permit utilizing a Certified Design Professional. No separate payment will be made for water quality sampling of pump discharges.

**OTHER CONTROLS**

The Contractor shall follow this ESPCP and ensure and demonstrate compliance with applicable State and/or local waste disposal, sanitary sewer or septic system regulations.

The Contractor shall control dust from the site in accordance with Section 161 of the current edition of the Department's Specifications.

**SEDIMENT STORAGE**

The following table summarizes the required and available sediment storage for every outfall on this project. The Contractor shall provide and maintain the storage volumes for the BMP's specified in this table.

Outfall ID	Total Drainage area (acres)	Disturbed area (acres)	Required Sediment storage Volume (yd3)	Total Storage volume provided (yd3)	Silt Fence with J-Hooks		Check Dam (6-80 yd3 each)		Inlet sediment Traps (5-25 yd3 each)		Sediment Basins ( yd3 each)	
					LF	Total Volume	* of Devices	Total Volume	* of Devices	Total Volume	* of Devices	Total Volume
STA.599+86 LT	1.13	1.13	76	128			8	128				
STA.606+60 LT	1.48	1.48	99	210			10	210				
STA.619+39 LT	2.24	2.24	150	187	2200	142			3	45		
STA.641+80 LT	3.20	3.20	214	303	520	43	5	250	1	10		
STA.649+45 LT	18.4	5.61	1233	1504	2500	142	10	412			3	950
STA.705+10 LT	1.00	0.65	67	110	265	22	1	78	1	10		
STA.713+44 LT	12.4	3.41	833	934	1350	113	42	551	7	70	2	200
STA.719+80 LT	1.25	0.98	84	85	950	85						
STA.219+57 RT	37.7	11.8	2526	2791	7200	421	75	945	27	270	2	1155
STA.426+82 RT	6.40	5.80	429	672	2850	143	30	519	1	10		
STA.601+85 LT	1.64	1.64	110	159	950	79			8	80		
STA.120+94 RT	1.27	1.27	85	87	560	47			4	40		

Where sediment basins are utilized they shall be constructed concurrently with clearing and grubbing operations. However, sediment basins are not utilized at all outfalls due to adverse impacts of constructing and removing the basin to the surrounding ESA's.



REVISION DATES		STATE OF GEORGIA DEPARTMENT OF TRANSPORTATION OFFICE: INNOVATIVE PROGRAM DELIVERY <b>ESPC GENERAL NOTES</b>	
		DRAWING No. <b>51-001</b>	