

ESPCP GENERAL NOTES

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

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

PLAN ALTERATIONS

The Erosion, Sedimentation, Pollution Control Plan (ESPCP) is provided by the Department. It addresses the staged construction of the project on the basis of common construction methods and techniques. If the Contractor elects to alter the staged construction from that shown in the plans or utilize construction techniques that render this plan ineffective, the Contractor shall revise the plans in accordance with 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 GARI00002 states, "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 every 7 days.

VEGETATION AND PLANTING SCHEDULE

All temporary and permanent vegetative practices including plant species, planting dates, seeding, fertilizing, liming and mulching for this project can be found in section 700 of the current edition of the Department's Standard Specifications (or Special Provisions) and other applicable contract documents, or landscaping plans.

SEQUENCE OF MAJOR ACTIVITIES

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

The project budget includes sufficient funds for the payment of construction exits. The Contractor is responsible for establishing at least one (1) construction exit per the specifications of the construction exit detail included in this ESPCP. To facilitate project logistics, the Contractor is also responsible for selecting the location(s) of the construction exits.

| PHASE/INFRASTRUCTURE | ESTIMATED ACTIVITY SCHEDULE | | | | | | | | | | | | |
|------------------------------------------------|-----------------------------|---|---|---|----|----|----|----|----|----|----|----|----|
| | 26 WEEK SCHEDULE | | | | | | | | | | | | |
| | 2 | 4 | 6 | 8 | 10 | 12 | 14 | 16 | 18 | 20 | 22 | 24 | 26 |
| INSTALL PERIMETER SILT FENCE | █ | | | | | | | | | | | | |
| CLEARING AND GRUBBING | | █ | █ | █ | █ | █ | █ | █ | █ | █ | █ | █ | █ |
| PRELIMINARY GRADING | | | | █ | █ | █ | █ | █ | █ | █ | █ | █ | █ |
| INSTALL EROSION CONTROL MEASURES | | | | | █ | █ | █ | █ | █ | █ | █ | █ | █ |
| MAINTAIN EROSION AND SEDIMENT CONTROL MEASURES | | | | | █ | █ | █ | █ | █ | █ | █ | █ | █ |
| RELOCATION OF UTILITY LINES | | | | | | | █ | █ | █ | █ | █ | █ | █ |
| INSTALLATION OF DRAINAGE STRUCTURES | | | | | | | | | | | | █ | █ |
| FINE GRADING | | | | | | | | | | | | | █ |
| REMOVE TEMPORARY EROSION CONTROL MEASURES | | | | | | | | | | | | | █ |

DESCRIPTION OF PROPOSED CONSTRUCTION ACTIVITY:

-Initial phase consists of the installation and maintenance of perimeter silt fencing, existing ditch check dams, existing drainage protection / inlet sediment traps, and temporary stabilization as depicted on the ES&PC (sheets 54-01 to 54-05). Construction activities shall include clearing and grubbing, and preliminary grading.

-Intermediate phase consist the installation of the additional erosion control measurements required for grading, utility relocation, roadway construction, storm drainage installation, and curb and gutter construction. Contractor shall maintain the existing erosion control measurements and provide temporary and final stabilization over the disturbed / graded areas. (Refer to sheets 54-06 to 54-10).

-Final phase consists of the construction of project site improvements such as sidewalks, driveway reconstruction, utility installation, etc. and shall include the fine grading, final disturbed area stabilization, and the removal of the temporary erosion control measurements. (Refer to sheets 54-11 to 54-15).

PETROLEUM STORAGE, SPILLS AND LEAKS

These plans expressly delegate the responsibility of on-site hazardous material management to the Contractor. The Contractor shall at a minimum provide an action plan and keep the necessary materials on site for the capture, clean up and disposal of any petroleum product, or other hazardous materials leak or spills associated with the servicing, refueling or operation of any equipment utilized at the site. 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 the action 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 BMPs 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

The following is a summary of the soils that are expected to be found on the project site:

SOIL SURVEY CHART

| Erosion Hazard (Road, Trip) - Summary by Map Unit - DeKalb County Georgia | | | | |
|---------------------------------------------------------------------------|----------------------------------------------------|-----------|--------------------------|--------------------------------|
| Map Unit Symbol | Map Unit Name | Rating | Component name (percent) | Rating Reasons (rating values) |
| CuC | Cecil-Urban land complex 2 to 10 percent slopes | Moderate | Cecil (65%) | Slope / Erodibility (0.50) |
| MdB | Madison sandy loam, 10 to 15 percent slopes | Moderate | Madison (100%) | Slope / Erodibility (0.50) |
| PuE | Pacolet-Urban land complex 10 to 25 percent slopes | Severe | Pacolet (65%) | Slope / Erodibility (0.95) |
| Ud | Urban Land | Not rated | Urban Land (100%) | |

POST-CONSTRUCTION BMP'S FOR STORMWATER MANAGEMENT

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, riprap at pipe outlets for dissipation and outlet stabilization, vegetated swales/ditches where practical, and channel/ditch stabilization with turf-reinforcing mats, riprap, and concrete ditch lining where necessary. The post-construction BMP's will provide permanent stabilization of the site and prevent abnormal transportation of sediment and pollutants into receiving waters.)

SILT FENCE INSTALLATION 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 is called using 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 placed in accordance with GDOT Construction Detail D-24C. The maximum J hook spacing is reached when the top of the J hook is at the same elevation as the bottom of the J hook immediately upgradient. J hooks shall be paid for as silt fence items per linear foot. All cost and other incidental items are included in the cost of installing and maintaining the silt fence.

SITE STABILIZATION AND BMP MAINTENANCE MEASURES

See the Department's Standard Specifications (or Special Provisions) 161, 163, 165, 700, 710 and other contract documents for stabilization and maintenance measures.

WASTE DISPOSAL

Waste disposal. Locate waste collection areas away from streets, gutters, watercourses and storm drains. Waste collection areas, such as dumpsters, are often best located near construction site entrances to minimize traffic on disturbed soils. The Plan should include secondary containment around liquid waste collection areas to further minimize the likelihood of contaminated discharges. Solid materials, including building materials, shall not be discharged to waters of the State, except as authorized by a Section 404 permit.

INSPECTIONS

By agreement with Georgia EPD, the design professional who prepared the ES&PC Plan is to inspect the installation of the initial sediment storage requirements and perimeter control BMPs within 7 days of installation. Additionally, the Department's Construction Project Engineer will be responsible for seven-day inspections for all new BMP installations.

All other inspections shall be documented on the appropriate Department inspection forms. See Standard Specification (or 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.

NONSTORM WATER DISCHARGES

Nonstorm 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 other contract documents.

DE-WATERING AND PUMPING ACTIVITIES

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 pumped discharges. The contractor shall prepare sampling plans in accordance with the current GARI00002 NPDES permit by utilizing by a Certified Design Professional. No separate payment will be made for water quality sampling of pump discharges.

OTHER CONTROLS

(1). Off-site vehicle tracking of dirt, soils, and sediments and the generation of dust shall be minimized or eliminated to the maximum extent practical. The Plan shall include the best management practice to be implemented at the site or construction activity.

(2). Nothing in this permit relieves a permittee from any obligations to comply with all applicable State and/or local regulations of waste disposal, sanitary sewer, septic and petroleum storage systems.

(3). The Plan shall include best management practices for the remediation of all petroleum spills and leaks as appropriate.

(4). The Plan shall include best management practices for concrete washdown of tools, concrete mixer chutes, hoppers and the rear of vehicles. Washout of the drum at the construction site is prohibited. Additional information about best management practices for concrete washout is available at www.epa.gov/npdes/pubs/concretewashout.pdf.

(5) All permittees are required to minimize the discharge of pollutants from dewatering trenches and excavations. Discharges are prohibited unless managed by appropriate controls.

RETENTION OF RECORDS

The Department will retain records in accordance with part IV.F of the General Permit GAR 100002.

SEDIMENT STORAGE

The site has a total disturbed area of 1.58 acres. 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.

| DESCRIPTION | LOCATION | TOTAL DRAINAGE AREA (acres) | DISTURBED AREA (acres) | REQUIRED SEDIMENT STORAGE VOLUME (acres) | TOTAL STORAGE VOLUME PROVIDED (acres) | CHECK DAM (6.67 yd3/ each) | | SILT FENCE (0.16 yd3/ LF) | | INLET SEDIMENT TRAP (0.45yd3/ each) | |
|-------------|-----------|-----------------------------|------------------------|------------------------------------------|---------------------------------------|----------------------------|--------------|---------------------------|--------------|-------------------------------------|--------------|
| | | | | | | * of devices | TOTAL VOLUME | LINEAR FEET | TOTAL VOLUME | * of devices | TOTAL VOLUME |
| AREA 1 | 105*91 LT | 0.55 | 0.06 | 36.9 | 40.5 | N/A | N/A | 253 | 40.5 | | |
| AREA 2 | 199*50 LT | 2.05 | 0.39 | 137.4 | 138 | N/A | N/A | 860 | 137.6 | 1 | 0.45 |
| AREA 3 | 112*84 RT | 1.19 | 0.28 | 79.7 | 80.5 | N/A | N/A | 500 | 80 | 1 | 0.45 |
| AREA 4 | 215*74 LT | 3.09 | 0.85 | 207 | 213 | N/A | N/A | 1300 | 208 | 11 | 4.95 |

In order to prevent runoff from bypassing inlet sediment traps, a temporary sump shall be installed around all inlet sediment traps that are not located in a low point or an excavated sump. Construct temporary sumps in accordance with Construction Detail D-24C Temporary sumps shall be installed 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.

All non-exempt activities shall not be conducted within the 25 or 50 foot undisturbed stream buffers as measured from the point of wrested vegetation without first acquiring the necessary variances and permits.

SEDIMENT BASINS

The disturbance activities consist of roadway construction, shoulder grading, installing curb and gutter, installing 5' sidewalk, utility relocation, and reconstruction of driveways. The majority of these areas will not be openly disturbed at the same time. BMP's as shown on the erosion control plans will be adequate to control sediment runoff at these locations. Land disturbance activities associated with constructing and removing a sediment basin at these location would cause additional adverse impacts.

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| REVISION DATES | | STATE OF GEORGIA DEPARTMENT OF TRANSPORTATION | |
|----------------|--|------------------------------------------------------------|--|
| 10/09/13 | | OFFICE: | |
| | | ESPC GENERAL NOTES | |
| | | INTERSECTION IMPROVEMENTS LAVISTA ROD. AT OAK GROVE RD. | |
| | | DRAWING No. 51-01 | |

USE ON CONSTRUCTION