

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 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 the ESPCP. To facilitate project logistics, the Contractor is also responsible for selecting the location(s) of the construction exit(s).

The Contractor shall install inlet sediment traps at all existing catch basins prior to grading and pavement widening. Perimeter silt fence will be installed prior to any construction activity. Silt fence will be required at the toe of all slopes prior to pavement widening through out the project as noted on the plans. Throughout the construction of proposed shoulder silt fence will be installed at the back of curb as noted on the plans. Inlet sediment traps will be installed to proposed inlets along curb line as well as in the median areas. Double row silt fence with a sediment barrier will be installed at locations where there is a stream buffer or environmentally sensitive areas as noted on the plans. Silt fence, and inlet sediment traps will remain in place throughout construction and be maintained as necessary.

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 material, leaks 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 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 GAR100002 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:
 Dekalb County:
 OJZ AuC (Appling-Urban Land), 4.0% CuC (Cecil-Urban Land), 1.0% CvF (Chestatee stony sandy loam), 0.8% PFC (Pacolet sandy loam), 1.5% PFE (Pacolet sandy loam), 3.4% PuE (Pacolet-Urban land), 1.6% Tf (Toccoa sandy loam), & 75.6% Ud (Urban land)
 Fulton County:
 1.4% CaA (Cartecay-Toccoa complex), 0.9% CpA (Congaree sandy loam), 8.5% Ub (Urban Land), 0.1% UgE (Urban land-Grover-Mountain Park), 0.2% UmC2 (Urban land-Madison-Bethlehem), & 0.8% W (Water).

The project site contains the following Erosion Hazard rating values:
 5.9% Severe, 5.0% Moderate, 3.9% Slight, and 85.3% Null or Not Rated.

Due to the size and scope of this project and the nature of soil series maps, it is not reasonably possible to delineate the precise locations of the above listed soils on the construction plans. The NRCS soil survey and soil series maps for the project site are also available online at <http://websol survey.nrcs.usda.gov/>.

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 permanent grassing, outlets for velocity dissipation and outlet stabilization. The post-construction BMP's will provide permanent stabilization of the site and prevent abnormal transportation of sediment and pollutants into receiving waters.

All temporary BMP's are shown in the ESPCP plan. The temporary BMP's for this project consist of temporary grassing, type C silt fence at the toe of fill slopes, near stream buffers & around culverts to reduce silt from storm water discharges. See Special Provision 700 subsection C for temporary grassing requirements.

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 Construction Detail D-24C. The maximum spacing of J hooks is reached when the top of the adjacent downgradient J hook is at the same elevation as the bottom of the adjacent upgradient J hook. 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.

NON-STORM WATER DISCHARGES

Non-storm water discharges defined in Part IIIA.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 GAR100002 NPDES permit utilizing by 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 site has a total disturbed area of 4.64 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.

| Location | Total Drainage Area (acres) | Disturbed area (acres) | Required Sediment Storage Volume (yd ³) | Total Storage Volume provided (yd ³) | Sediment Basins | | Check Dam yd ³ each | | Inlet sediment Traps (0.7 yd ³ each) | | Silt Fence yd ³ /ft ³ | |
|-------------------------------|-----------------------------|------------------------|---|--|-----------------|--------------|--------------------------------|--------------|---|---------------------------------|---|---------------------------------|
| | | | | | Pond * | Total Volume | * of Devices | Total Volume | * of Devices | Total Volume (yd ³) | * of Devices | Total Volume (yd ³) |
| Outfall 1 STA 13+00.00, Lt. | 1.37 | 0.11 | 91.79 | 68.29 | | | | | 5 | 0.83 | 1116 | 67.46 |
| Outfall 2 STA 15+91.25, Lt. | 1.44 | 0.27 | 96.48 | 68.76 | | | | | 3 | 0.50 | 1340 | 68.26 |
| Outfall 3 STA 22+21.01, Lt. | 1.50 | 0.26 | 100.50 | 39.25 | | | | | 6 | 1.00 | 835 | 38.25 |
| Outfall 4 STA 28+23.15, Lt. | 0.68 | 0.04 | 45.56 | 15.67 | | | | | 3 | 0.50 | 274 | 15.17 |
| Outfall 5 STA 35+73.40, Lt. | 0.63 | 0.14 | 42.21 | 27.44 | | | | | 3 | 0.50 | 449 | 26.94 |
| Outfall 6 STA 44+38.67, Lt. | 4.39 | 0.52 | 294.13 | 95.55 | | | | | 20 | 3.33 | 2110 | 92.22 |
| Outfall 7 STA 46+64.07, Lt. | 4.34 | 0.41 | 290.78 | 67.08 | | | | | 17 | 2.83 | 1207 | 64.25 |
| Outfall 8 STA 63+76.23, Lt. | 1.75 | 0.17 | 117.25 | 38.91 | | | | | 5 | 0.83 | 693 | 38.08 |
| Outfall 9 STA 68+00.00, Lt. | 2.04 | 0.35 | 136.68 | 58.86 | | | | | 11 | 1.83 | 1097 | 57.03 |
| Outfall 10 STA 73+25.11, Rt. | 6.10 | 0.72 | 408.70 | 127.46 | | | | | 31 | 5.17 | 2511 | 122.29 |
| Outfall 11 STA 87+66.80, Rt. | 0.68 | 0.12 | 45.56 | 39.25 | | | | | 5 | 0.83 | 595 | 38.42 |
| Outfall 12 STA 92+34.79, Rt. | 3.51 | 0.58 | 235.17 | 131.81 | | | | | 15 | 2.50 | 2158 | 129.31 |
| Outfall 13 STA 117+85.63, Lt. | 4.94 | 0.35 | 330.98 | 49.73 | | | | | 20 | 3.33 | 957 | 46.40 |
| Outfall 14 STA 131+04.01, Rt. | 3.20 | 0.40 | 214.40 | 81.00 | | | | | 14 | 2.33 | 1508 | 78.77 |
| Outfall 15 STA 134+71.90, Lt. | 1.08 | 0.08 | 72.36 | 13.91 | | | | | 3 | 0.50 | 362 | 13.41 |
| Outfall 16 STA 135+36.85, Rt. | 0.49 | 0.09 | 32.83 | 31.18 | | | | | 3 | 0.50 | 1375 | 71.50 |
| Total | 38.14 | 4.64 | 2555.38 | 954.25 | | | | | 161 | 27.33 | 18587 | 967.76 |

Sediment storage is only being provided through the usage of Type C silt fence on this project. The watershed entering and leaving the project is doing so in an unconcentrated form. As a result, normal BMP's have been increased and disturbed areas shall be stabilized as soon as possible.

The construction of sediment basins would cause unnecessary and unjustifiable disturbance considering the proximity of adjacent paved areas, the numerous utilities, and the general urban setting. 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.

Though little storage volume is provided, the proposed BMP's will provide sufficient erosion protection. Land disturbance activities associated with the removal of asphalt to install berms around the inlet sediment traps would cause adverse impacts to the adjacent traffic as well as cause additional sediment runoff due to the removal of a stabilized surface. No outfall receives a disturbed area of more than 0.91 acres. These small disturbed areas will be temporarily stabilized by the contractor using mulch within seven (7) days of disturbed activities.

No alternate or additional BMP's will be used on this project.

STREAM BUFFER ENCROACHMENT

Stream/Pond Buffers are not impacted by this project.

The Contractor is not authorized to enter into stream buffers.

USE ON CONSTRUCTION

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|---|--------|--------------------------------------|--|
|  GSWCC LEVEL II Certification #0000061032 | ATKINS | REVISION DATES 7/31/12 7/25/13 | STATE OF GEORGIA DEPARTMENT OF TRANSPORTATION OFFICE: PROGRAM DELIVERY ESPC GENERAL NOTES BUFORD HIGHWAY STREETSCAPES |
| | | | DRAWING No. 51-01 |