

REVISED AUGUST 24, 2011

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 BMPs with a hydraulic component requires a formal revision of the 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 exlts. 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 exit(s).

Stage 1A: Work in this stage includes clearing and grubbing. Maintain traffic on existing roadway.

- A. Initial BMPs: Install the following BMPs prior to construction
 1. Install perimeter silt fence, inlet sediment traps on existing structures, and baled straw as shown on the Stage 1A plans prior to clearing and grubbing operations.
- B. Intermediate BMPs: N/A
- C. Final BMPs: N/A

Stage 1: Construct temporary pavement on west side of SR 49. This will allow room to construct 2-10' lanes to start work on the east side of SR 49. Construct Phase I of Stage 1. Phase I work performed is on the outside of existing edge of pavement on west side of SR 49. Once Phase I is completed, shift traffic to the west on SR 49 and construct Phase 2

- A. Initial BMPs: N/A
- B. Intermediate BMPs: While earthwork is progressing do the following.
 1. Adjust perimeter silt fence as drainage structures are being installed.
 2. Construct and maintain inlet sediment traps and silt gates to drainage structures and pipe outlets where shown on the Stage 1 plans.
 3. Place storm drain outlet protection at pipe outfalls constructed in Stage 1 as shown on plans.
 4. Install mulch and temporary grassing as shown on the Stage 1 plans.
- C. Final BMPs: As soon as final grade has been established in any area of the project, install the following.
 1. Permanent grassing
 2. Channel lining

Stage 2: Traffic shifts to west side of SR 49 as shown on the plans. Construct east side of SR 49.

- A. Initial BMPs: N/A
- B. Intermediate BMPs: While earthwork is progressing do the following.
 1. Adjust perimeter silt fence as drainage structures are being installed.
 2. Construct and maintain inlet sediment traps and silt gates to drainage structures and pipe outlets where shown on the Stage 2 plans.
 3. Install mulch and temporary grassing as shown on the Stage 2 plans.
- C. Final BMPs: As soon as final grade has been established in any area of the project, install the following.
 1. Permanent grassing
 2. Channel lining

Stage 3: Traffic shifts to east side of SR 49 as shown on the plans. Construct west side of SR 49.

- A. Initial BMPs: N/A
- B. Intermediate BMPs: While earthwork is progressing do the following.
 1. Adjust perimeter silt fence as drainage structures are being installed.
 2. Construct and maintain inlet sediment traps and silt gates to drainage structures and pipe outlets where shown on the Stage 3 plans.
 3. Install mulch and temporary grassing as shown on the Stage 2 plans.
- C. Final BMPs: As soon as final grade has been established in any area of the project, install the following.
 1. Permanent grassing
 2. Channel lining

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 BMPs needed for onsite storage and spill prevention for petroleum products. This plan shall be prepared by a Certified Design Professional as required by GARIO0002 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:



Due to the size and scope of this project and the nature of soil series maps, it is not reasonably practical 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://websoilsurvey.nrcs.usda.gov/>.

Map Unit Symbol	Houston and Peach Counties, Georgia (GA 640)	Acres In AOI	Percent of AOI
FaA	Faceville fine sandy loam, 0 to 2 percent slopes	276.8	40.2%
FaB	Faceville fine sandy loam, 2 to 5 percent slopes	7.7	1.1%
FaB2	Faceville fine sandy loam, 2 to 5 percent slopes, eroded	7.3	1.1%
Gc1	Grady clay loam	8.1	1.2%
GpB3	Greenville clay loam, 2 to 5 percent slopes, severely eroded	11.0	1.6%
GpC3	Greenville clay loam, 5 to 8 percent slopes, severely eroded	6.8	1.0%
GsA	Greenville fine sandy loam, 0 to 2 percent slopes	293.6	42.7%
GsB2	Greenville fine sandy loam, 2 to 5 percent slopes, eroded	4.8	0.7%
GsC2	Greenville fine sandy loam, 5 to 8 percent slopes, eroded	53.0	7.7%
LcM	Local alluvial land	10.5	1.5%
OcD3	Orangeburg sandy loam, 8 to 12 percent slopes, severely eroded	7.7	1.1%
VOD2	Vaulcluse-Hoffman complex, 8 to 12 percent slopes, eroded	0.7	0.1%
Totals for Area of Interest		687.9	100.0%

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 may consist of permanent detention ponds, filter basins, 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 abnormal transportation of sediment and pollutants into receiving waters.

Construction Schedule

Month	1-3	3-6	6-9	9-12	12-15	15-18	18-24	24-26
Install Temporary Erosion Control Measures	■	■	■	■	■	■	■	■
Maintenance of Temporary Erosion Control Measures	■	■	■	■	■	■	■	■
Perform Construction Activities								
Establish Permanent Vegetation								
Remove Temporary Erosion Control Structures								

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.

DISCHARGES INTO, OR WITHIN ONE LINEAR MILE UPSTREAM OF AND WITHIN THE SAME WATERSHED AS, ANY PORTION OF A BIOTA IMPAIRED STREAM SEGMENT

The following is a summary of project outfalls within 1 mile and within the watershed of an identified impaired stream segment that has been listed for criteria violated, 'Blo F' (Impaired Fish Community) and/or 'Blo M' (Impaired Macro Invertebrate Community), within Category 4a, 4b or 5, and the potential cause is either "NP" (nonpoint source) or "UR" (urban runoff).

Outfall Location	Basin Name	Reach Name	Location of the impaired stream segment as indicated in the 305b/303d list	Criteria Violated (Blo F or Blo M)	Potential Cause (NP or UR)	Category (4a, 4b, or 5)	Numeric waste load allocation for sediment
I17-90 RT	Ocmulgee	Bay Creek/Headwaters to Beaver Creek	Peach County	Blo F	UR	4a	N/A

- d. Place a large sign (minimum 4 feet x 8 feet) on the site visible from the roadway identifying the construction site, the permittee(s), and the contact person(s) and telephone number(s).
- e. Use anionic polyacrylamide (PAM) and/or mulch to stabilize areas left disturbed for more than seven (7) calendar days in accordance with Part III.D.1 of this permit.
- f. Limit the amount of disturbed area at any one time to no greater than 25 acres or 50 % of the total planned site, whichever is less.
- g. Apply the appropriate Georgia Department of Transportation approved erosion control matting or blankets or bonded fiber matrix to all slopes steeper than 3:1.

REVISION DATES

NO.	DATE	DESCRIPTION

STATE OF GEORGIA
 DEPARTMENT OF TRANSPORTATION
 OFFICE: ROAD AND AIRPORT DESIGN
ESPC GENERAL NOTES

SR 49 DRAINAGE IMPROVEMENTS
 COUNTY: PEACH

DRAWING NO.
51-001

Heath & Lineback Engineers
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