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 after the project is awarded along 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 exit(s).

STAGE 0 - This work consists of clearing and grubbing and installation of initial BMPs.

Initial BMP Installation

1. Install construction exits.
2. Install perimeter silt fences prior to clearing and grubbing activities and prior to any mass grading activities. Silt fence is to remain in place until construction is complete and all slopes have been stabilized.

STAGE 1 - This work consists of installing the drainage system, widening of SR 16, Hollonville Rd, and Old 85 Conn, and construction of retaining wall on Hollonville Rd.

Initial BMP Installation

1. Maintain BMP's from previous stage unless current stage necessitates removal. If prior installed BMPs are removed, replacement BMPS are to be installed as soon as pratical.
2. Install inlet sediment traps and silt control gates as soon as new drainage structures are installed.

Intermediate BMP Installation

1. Construct ditches and install check dams as soon as possible.

Final BMP Installation

1. Install ditch lining as soon as ditches are graded.
2. Once ditch lining is installed, install slope matting on back slope of ditch beyond the depth of protection of the lining.
3. Install Permanent Grassing as soon as pratical

STAGE 2 - This work consists of the installation of the central island of the roundabout.

Initial BMP Installation

1. Maintain BMP's from previous stage.

STAGE 3 - This work consists of the overlay of SR 16, Hollonville Rd, and Old 85 Conn, construction of the splitter islands, and the construction of curb and gutter.

Initial BMP Installation

1. Maintain BMP's from previous stage unless current stage necessitates removal. If prior installed BMPs are removed, replacement BMPS are to be installed as soon as pratical.

Intermediate BMP Installation

1. Install inlet sediment traps and silt control gates as soon as new drainage structures are installed.

Final BMP Installation

1. Install Permanent Grassing as soon as pratical.

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.

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

Map unit Symbol	Map unit name	Rating	Component name (percent)
AmB2	Appling Sandy loam, 2 to 6 percent slopes, eroded	Slight	Appling (100%)
CYB2	Cecil sandy loam, 2 to 6 percent slopes, eroded	Slight	Cecil (100%)

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/.

Ditch Lining Details

DITCH NAME	ROADWAY	BEGIN STATION	END STATION	SIDE	DRAINAGE AREA (AC)	Q25 (CFS)	DITCH SLOPE %	BOTTOM WIDTH (FT)	FRONT SLOPE Z1	BACK SLOPE Z2	EROSION INDEX	VELOCITY (FT/S)	NORMAL DEPTH Dn (FT)	USCS SOIL CLASS	PLASTICITY INDEX	MIN REQUIRED LINING HEIGHT Dp (FT)	LINING TYPE
SYSTEM A - DITCH 1	SR 16	50+00 WB	55+00 WB	LT	7.59	30.77	2.96	4	4	2	6.5	4.5	0.98	SM	0	1.5	TRM TYPE 1
SYSTEM A - DITCH 2	HOLLONVILLE RD	26+00 SB	27+50 SB	LT	0.074	0.25	0.84	4	4	2	6.5	0.3	0.23	SM	0	1.0	TRM TYPE 1
AREA 1	OLD 85 CONN	63+00	64+00	RT	0.35	1.2	0.46	4	4	2	6.5	0.4	0.49	SM	0	1.0	TRM TYPE 1
AREA 2	OLD 85 CONN & SR 16	63+00	60+44 WB	RT/LT	3.55	11.95	3.24	4	4	2	6.5	3.2	0.62	SM	0	1.5	TRM TYPE 1
AREA 3	SR 16	58+50 WB	60+00 WB	RT	4.25	9.23	1.62	2	4	2	6.5	2.2	0.89	SM	0	1.5	TRM TYPE 1
AREA 4	HOLLONVILLE RD	25+50 SB	26+00 SB	LT	0.08	0.1	1.78	4	4	2	6.5	0.2	0.12	SM	0	1.0	TRM TYPE 1

ALL DITCHES ASSUME A MIXED GRASS TYPE WITH A GOOD DENSITY OF GRASS COVER AND A STEM HEIGHT OF 0.75 FEET.
ALL D75 ARE ASSUMED TO BE 3 INCHES.
ALL PLASTICITY INDEXES ASSUMED TO BE 0.

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

All outfalls are either located further than 1 linear mile upstream or outside of the watershed of an impaired stream segment that has been listed for criteria violated, "Bio F" (impaired fish Community) and/or "Bio M" (impaired macro invertebrate Community), within Category 4a, 4b or 5, and the potential cause is either "NP" (nonpoint source) or "UR" (urban runoff).

STREAM AND OPEN-WATER BUFFER ENCROACHMENTS

Stream Buffers, as defined by O.C.G.A. 12-7-1, are not impacted by this project.
The contractor is not authorized to enter into stream buffers.

READY MIX CHUTE WASHDOWN

The washing of ready-mix concrete drums and dump truck bodies used in the delivery of Portland cement concrete is prohibited on this site.

In accordance with Standard Specification 107: Legal Regulations and Responsibility to the Public, only the discharge chute utilized in the delivery of Portland cement concrete may be rinsed free of fresh concrete remains. The Contractor shall excavate a pit outside of State water buffers, at least 25 feet from any storm drain and outside of the travelled way, including shoulders, for a wash-down pit. The pit shall be large enough to store all wash-down water without overtopping. Immediately after the wash-down operations are completed and after the wash-down water has soaked into the ground, the pit shall be filled in, and the ground above it shall be graded to match the elevation of the surrounding areas. Alternate wash-down plans must be approved by the Project Engineer.

Wash-down plans describe procedures that prevent wash-down water from entering streams and rivers. Never dispose of wash-down water down a storm drain. Establish a wash-down pit that includes the following: (1) a location away from any storm drain, stream, or river, (2) access to the vehicle being used for wash down, (3) sufficient volume for wash-down water, and (4) permission to use the area for wash down.

On sites where permission or access to excavate a wash-down pit is unavailable, the Contractor may have to wash-down into a sealable 55-gallon drum or other suitable container and then transport the container to a proper disposal site. For additional information, refer to the Georgia Small Business Environmental Assistance Program's "A Guide for Ready Mix Chute/Hopper Wash-down".