

PROJECT	SHEET NUMBER

Project Description (Provide project specific information)

This project consists of the replacement of the Fort Pulaski Entrance Bridge (Structure No. 5420-001P). The work includes the placement of new riprap on embankment slopes and reconstruction of bridge approaches. Soil disturbing activities include roadway grading.

The total area for the project is XX.X acres and the total disturbed area is XX.X acres. The receiving water is the XX.

Approximately XX.X acres of new impervious surface will be created by the reconstructed roadway. Approximately, XX.X acres of existing pavement will be restored to wetland.

The Runoff Coefficient prior to construction is X.XX. and Runoff Coefficient after construction will be X.XX.

The necessary sediment storage is XX.X cubic yards.
(Provide justification for why sediment traps are not implemented, if applicable)

Anticipated Permits

(List anticipated permits and who will issue them)

Fill to the tidal wetlands/waters of the US is authorized under the Nationwide Permit 14 only as approved by the US Army Corps of Engineers

Prohibited Discharges

The following discharges are prohibited:
Wash-water from concrete, paint, curing compounds, and other construction materials
Fuels, oils, equipment-related compounds
Soaps, solvents used for vehicle washing
Waste, garbage, sanitary waste

Inspect and maintain on a regular basis, all mechanized equipment used in or near surface water to prevent contamination from fuels, lubricants, hydraulic fluids, or other toxic materials.

Solid waste generated from the project will consist of construction debris, garbage, and empty containers. Collect and store all waste in dumpsters, or in metal or plastic drums, as appropriate.

Hazardous waste will not be generated from normal construction activities. Equipment fueling and maintenance could generate spills, leaks, and hazardous wastes like motor oil, diesel, gasoline, and battery fluid. If feasible, conduct these activities in a covered area to avoid contact with storm water.

Store all hazardous waste materials in appropriate and clearly marked containers away from other non-waste materials. Do not dispose of hazardous waste materials into the on-site dumpsters. Dispose of material according to Federal, State, and local regulations.

Develop and implement a Spill Prevention Control and Countermeasures (SPCC) plan following the requirements under 40 CFR 112. Report spills large enough to discharge to surface waters to the National Response Center at 1-800-424-8802. Provide remediation of all petroleum spills and leaks.

General Guidelines

The Erosion & Sediment Control Narrative is meant as a guideline for preventing erosion and controlling sediment.

The work consists of applying measures throughout the life of the project to control erosion and to minimize the sedimentation of rivers, streams, and impoundments such as lakes, reservoirs, bays, and coastal waters. The measures consist of soil erosion control measures which are also defined and outlined in the Standard Specifications for Construction of Roads and Bridges on Federal Highway Projects, FP-14, and the Special Contract Requirements.

Do not modify the type, size, or location of any control or practice without prior approval from the Contracting Officer (CO).

No construction access will be permitted outside the limits of disturbance.

Do not allow construction vehicles to track sediment outside the project limits.

Do not allow any construction equipment to operate on or access the down-slope side of the perimeter control measures.

Direct storm water to vegetated buffer areas and do not discharge directly into surface waters.

All activities will be performed in a manner to minimize turbidity in the stream.

No oils or other pollutants will be released from the proposed activities which will reach the stream.

All work performed during construction will be done in a manner to prevent interference with any legitimate water uses.

Sequence of Construction (Provide project specific construction activities)

Phase I Establish Initial Controls (Provide project specific controls)

Prior to any roadway grading, pile driving or excavation, construct perimeter controls to ensure that disturbed sediment does not leave the project site. Perimeter controls include silt fence, floating turbidity curtain and other specified measures outside the construction limits.

Coordinate with wetland mitigation professional to complete Spartina alterniflora harvesting as shown on the Plans. See Special Contract Requirements for additional requirements.

Phase II Intermediate Controls

Apply intermediate controls during rough grading operations. Install silt fence in areas called out in the Erosion and Sediment Control plans and as directed by the CO. Install on-site concrete washout structure within the staging area.

Apply floating turbidity curtains before beginning of construction operations and during pile driving activities.

Only disturb areas that can be stabilized at the end of the day. Apply permanent turf establishment to the finished slopes according to Sections 624 and 625.

At the end of each day's grading operations, shape earthwork to minimize and control erosion from storm runoff.

Provide silt fence around all stockpiled excavated roadway material. Apply temporary turf establishment to stockpiles remaining in place longer than 14 days within 7 days of stockpiling.

Provide watering for dust control within the construction limits, on active haul roads, and in pits and staging areas.

Phase III Final Construction / Stabilization

After completion of roadway construction, do the following as directed by the CO:

Finish grading, place riprap, and apply permanent turf establishment to any remaining disturbed areas. Place oyster bags and rolled erosion control/coconut fiber blanket. Plant Spartina alterniflora harvesting as directed in the Plans and Special Contract Requirements.

Where necessary, replace eroded topsoil and re-apply permanent turf establishment to disturbed areas where vegetation has not established.

Inspect, clean, and repair all culvert outlet protection, riprap basins, and stabilized channels.

Remove all devices used for dewatering.

Remove on-site concrete washout and other excess material within staging area.

Remove silt fence only after all upslope areas are stabilized and vegetation is well established.

Remove all other perimeter controls when directed by the CO.

Maintenance and Inspection Procedures

Unless stated otherwise, construct and maintain all vegetated and structural erosion control practices according to Section 157, the details shown in the plans, and the individual permitting requirements.

Check and maintain erosion control measures once every 7 days and within 24 hours after a rain of 0.25 inches or more, and daily during wet weather. Repair or replace any damaged measures by the end of the day.

Silt fence - Inspect for buildup of excess sediment, undercutting, sags, and other failures. If the fabric becomes damaged, repair or replace as necessary. Remove sediment from behind the silt fence when it becomes 0.5 feet deep at the fence.

Record the inspection date and summary of findings within 24 hours of completing a site inspection.

Stabilized construction exit - Inspect every 7 calendar days and after a storm event of 1/2" or greater. If vehicles passing through stabilized exit continue to track sediment onto adjacent roadway, replenish stone or replace it completely. Immediately sweep any sediment on roadway.

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EROSION AND SEDIMENT CONTROL NARRATIVE
Sheet 1 of 7

PROJECT	SHEET NUMBER

**EROSION, SEDIMENTATION & POLLUTION CONTROL PLAN CHECKLIST
INFRASTRUCTURE CONSTRUCTION PROJECTS**

SWCD: _____

REPLACEMENT OF THE FORT PULASKI
ENTRANCE BRIDGE

Address: _____

Project Name: _____
City/County: CHATHAM COUNTY

Date on Plans: #####

Plan Page #	Included Y/N
M2, M3	Y

TO BE SHOWN ON ES&PC PLAN

M	Y
M4	Y
M4	Y
M1	Y
M4	Y
M2, M3, A1	Y
M1	Y
A1, A3	Y
M1	Y
	N
M4, SCR5	Y
M4	Y
	N

- The applicable Erosion, Sedimentation and Pollution Control Plan Checklist established by the Commission as of January 1 of the year in which the land-disturbing activity was permitted.
(The completed Checklist must be submitted with the ES&PC Plan or the Plan will not be reviewed)
- Level II certification number issued by the Commission, signature and seal of the certified design professional.
(Signature, seal and Level II number must be on each sheet pertaining to ES&PC Plan or the Plan will not be reviewed)
- The name and phone number of the 24-hour local contact responsible for erosion, sedimentation and pollution controls.
- Provide the name, address and phone number of primary permittee.
- Note total and disturbed acreage of the project or phase under construction.
- Provide the GPS locations of the beginning and end of the Infrastructure project. Give the Latitude and Longitude in decimal degrees.
- Initial date of the Plan and the dates of any revisions made to the Plan including the entity who requested the revisions.
- Description of the nature of construction activity.
- Provide vicinity map showing site's relation to surrounding areas. Include designation of specific phase, if necessary.
- Identify the project receiving waters and describe all sensitive adjacent areas including streams, lakes, residential areas, wetlands, etc. which may be affected.
- Design professional's certification statement and signature that the site was visited prior to development of the ES&PC Plan as stated on page 15 of the permit.
- Design professional's certification statement and signature that the permittee's ES&PC Plan provides for an appropriate and comprehensive system of BMPs and sampling to meet permit requirements as stated on page 15 of the permit.*
- Design professional certification statement and signature that the permittee's ES&PC Plan provides for representative sampling as stated on page 26 of permit as applicable.*
- Clearly note the statement that "The design professional who prepared the ES&PC Plan is to inspect the installation of the initial sediment storage requirements, perimeter control BMPs, and sediment basins in accordance with part IV.A.5. within 7 days after installation."
- Clearly note the statement that "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."
- Clearly note the statement that "Amendments/revisions to the ES&PC Plan which have a significant effect on BMPs with a hydraulic component must be certified by the design professional."
- Clearly note the statement that "Waste materials shall not be discharged to waters of the State, except as authorized by a section 404 permit."
- Clearly note statement that "The escape of sediment from the site shall be prevented by the installation of erosion and sediment control measures and practices prior to land disturbing activities."
- Clearly note statement that "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."
- Clearly note the statement "Any disturbed area left exposed for a period greater than 14 days shall be stabilized with mulch or temporary seeding."
- Any construction activity which discharges storm water into an Impaired Stream Segment, or within 1 linear mile upstream of and within the same watershed as, any portion of an Impaired Stream Segment must comply with Part III. C. of the Permit. Include the completed Appendix 1 listing all the BMPs that will be used for those areas of the site which discharge to the Impaired Stream Segment.*

Maintenance and Inspection Procedures - Cont.

Floating turbidity curtain - Inspect daily and repair if necessary. Remove any floating construction or natural debris, immediately to prevent damage. If necessary, remove sediment deposited behind the curtain by hand prior to removal. Remove curtain by carefully pulling it toward the construction site to minimize the release of attached sediment.

On-site concrete washout structure - Inspect for damage regularly. Immediately repair any damage to ensure that no materials leave the washout area. Remove concrete materials and dispose of them offsite.

Rolled Erosion Control Product - Inspect matting or blanket after every significant rainfall (0.5 inch or greater) event for damage and erosion beneath the matting or blanket. Replacement of matting or blanket may be necessary if damaged by equipment. Check staples and stakes to make sure they are secured in the ground.

Pollution Reduction Practices

Petroleum Based Products - Containers for products such as fuels, lubricants and tars daily for leaks and spills. This includes on-site vehicle and machinery daily inspections and regular preventative maintenance of such equipment. Equipment maintenance areas will be located away from state waters, natural drains and stormwater drainage inlets. In addition, temporary fueling tanks shall have a secondary containment liner to prevent/minimize site contamination. Discharge of oils, fuels and lubricants is prohibited. Proper disposal methods will include collection in a suitable container and disposal as required by local and State regulations.

Points/Finishes/Solvents - All products will be stored in tightly sealed original containers when not in use. Excess product will not be discharged to the storm water collection system. Excess product, materials used with these products and product containers will be disposed of according to manufacturer's specifications and recommendations.

Concrete Truck Washing - No concrete trucks will be allowed to wash out or discharge surplus concrete or drum wash water onsite.

Fertilizers/Herbicides - These products will be applied at rates that do not exceed the manufacturer's specifications or above the guidelines set forth in the crop establishment or the GSWCC Manual for Erosion and Sediment Control in Georgia. Any storage of these materials will be under roof in sealed containers.

Building materials - No building or construction materials will be buried or disposed of onsite. All such material will be disposed of in proper waste disposal procedures.

**** PROVIDE PROJECT SPECIFIC **
CHECKLIST**

**** DOWNLOAD CHECKLIST FROM **
<http://gaswcc.georgia.gov/es-2016-checklists> ****

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**EROSION AND SEDIMENT
CONTROL NARRATIVE**

**EROSION, SEDIMENTATION & POLLUTION CONTROL PLAN CHECKLIST
INFRASTRUCTURE CONSTRUCTION PROJECTS**

SWCD: _____

Project Name: REPLACEMENT OF THE FORT PULASKI
ENTRANCE BRIDGE Address: _____
City/County: CHATHAM COUNTY Date on Plans: #####

Plan Included
Page # Y/N

TO BE SHOWN ON ES&PC PLAN

- N 22 If a TMDL Implementation Plan for sediment has been finalized for the Impaired Stream Segment (identified in item 21 above) at least six months prior to submittal of NOI, the ES&PC Plan must address any site-specific conditions or requirements included in the TMDL Implementation Plan.*
- Y M4 23 BMPs for concrete washdown of tools, concrete mixer chutes, hoppers and the rear of the vehicles. Washout of the drum at the construction site is prohibited.*
- Y M1 24 Provide BMPs for the remediation of all petroleum spills and leaks.
- Y M1 25 Description of the measures that will be installed during the construction process to control pollutants in storm water that will occur after construction operations have been completed.*
- Y M1 26 Description of the practices that will be used to reduce the pollutants in storm water discharges.*
- Y M1, CPM 27 Description and chart or timeline of the intended sequence of major activities which disturb soils for the major portions of the site (i.e., initial perimeter and sediment storage BMPs, clearing and grubbing activities, excavation activities, utility activities, temporary and final stabilization).
- Y M4 28 Provide complete requirements of inspections and record keeping by the primary permittee.*
- Y M4 29 Provide complete requirements of sampling frequency and reporting of sampling results.*
- Y M4 30 Provide complete details for retention of records as per Part IV.F. of the permit.*
- Y M4 31 Description of analytical methods to be used to collect and analyze the samples from each location.*
- Y M4 32 Appendix B rationale for NTU values at all outfall sampling points where applicable.*
- Y M 33 Delineate all sampling locations, perennial and intermittent streams and other water bodies into which storm water is discharged also provide a summary chart of the justification and analysis for the representative sampling as applicable.*
- Y M 34 A description of appropriate controls and measures that will be implemented at the construction site including: (1) initial sediment storage requirements and perimeter control BMPs, (2) intermediate grading and drainage BMPs, and (3) final BMPs. For construction sites where there will be no mass grading and the initial perimeter control BMPs, intermediate grading and drainage BMPs, and final BMPs are the same, the plan may combine all of the BMPs into a single phase.*
- Y M 35 Graphic scale and North arrow.
- Y M 36 Existing and proposed contour lines with contour lines drawn at an interval in accordance with the following:

Existing Contours	USGS 1" : 2000' Topographical Sheets
Proposed Contours	1" : 400' Centerline Profile
- N 37 Use of alternative BMPs whose performance has been documented to be equivalent to or superior to conventional BMPs as certified by a Design Professional (unless disapproved by EPD or the Georgia Soil and Water Conservation Commission). Please refer to the Alternative BMP Guidance Document found at www.gaswcc.org.
- Y M06 38 Delineation of the applicable 25-foot or 50-foot undisturbed buffers adjacent to State waters and any additional buffers required by the Local Issuing Authority. Clearly note and delineate all areas of impact.
- Y M 39 Delineation of on-site wetlands and all State waters located on and within 200 feet of the project site.
- Y M13 40 Delineation and acreage of contributing drainage basins on the project site.
- Y M13 41 Delineate on-site drainage and off-site watersheds using USGS 1" : 2000' topographical sheets.
- Y M1 42 An estimate of the runoff coefficient or peak discharge flow of the site prior to and after construction activities are completed.
- N 43 Storm-drain pipe and weir velocities with appropriate outlet protection to accommodate discharges without erosion. Identify/Delineate all storm water discharge points.
- Y M 44 Soil series for the project site and their delineation.
- Y M 45 The limits of disturbance for each phase of construction.

**EROSION, SEDIMENTATION & POLLUTION CONTROL PLAN CHECKLIST
INFRASTRUCTURE CONSTRUCTION PROJECTS**

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TO BE SHOWN ON ES&PC PLAN

- N 46 Provide a minimum of 67 cubic yards of sediment storage per acre drained using a temporary sediment basin, retrofitted detention pond, and/or excavated inlet sediment traps for each common drainage location. Sediment storage volume must be in place prior to and during all land disturbance activities until final stabilization of the site has been achieved. A written justification explaining the decision to use equivalent controls when a sediment basin is not attainable must be included in the plan for each common drainage location in which a sediment basin is not provided. A written justification as to why 67 cubic yards of storage is not attainable must also be given. Worksheets from the Manual must be included for structural BMPs and all calculations used by the design professional to obtain the required sediment storage when using equivalent controls. When discharging from sediment basins and impoundments, permittees are required to utilize outlet structures that withdraw water from the surface, unless infeasible. If outlet structures that withdraw water from the surface are not feasible, a written justification explaining this decision must be included in the plan.
- Y M 47 Location of Best Management Practices that are consistent with and no less stringent than the Manual for Erosion and Sediment Control in Georgia. Use uniform coding symbols from the Manual, Chapter 6, with legend.
- Y S 48 Provide detailed drawings for all structural practices. Specifications must, at a minimum, meet the guidelines set forth in the Manual for Erosion and Sediment Control in Georgia.
- Y M,SCR 49 Provide vegetative plan, noting all temporary and permanent vegetative practices. Include species, planting dates and seeding, fertilizer, lime and mulching rates. Vegetative plan shall be site specific for appropriate time of year that seeding will take place and for the appropriate geographic region of Georgia.

*If using this checklist for a project that is less than 1 acre and not part of a common development but within 200 ft of a perennial stream the * checklist items would be N/A. **Effective January 1, 2015**

**** PROVIDE PROJECT SPECIFIC **
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**EROSION AND SEDIMENT
CONTROL NARRATIVE**

Sheet 3 of 7

PROJECT	SHEET NUMBER

24-hour Local Contact

(Provide project contact information.
Generally list the Construction Project Engineer)

Primary Permittee

Federal Highway Administration
Eastern Federal Lands Highway Division
21400 Ridgetop Circle
Sterling, Virginia 20166
571-434-1541

Erosion Control Certification

I certify under penalty of law that this Plan was prepared after a site visit to the locations described herein by myself, or my authorized agent, under my supervision.

I certify that the permittee's Erosion, Sedimentation, and Pollution Control Plan provides for an appropriate and comprehensive system of Best Management Practices required by the Georgia Water Quality Control Act and the document "Manual for Erosion and Sediment Control in Georgia" (Manual) published by the State Soil and Water Conservation Commission as of January 1 of the year which the land-disturbing activity was permitted, provides for the sampling of the receiving water(s) or the sampling of the storm water outfalls and that the designated system of the Best Management Practices and sampling methods is expected to meet the requirements contained in the General NPDES Permit No. GAR 100002.

Name	Signature	Date
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Notes:

- The design professional who prepared the ES&PC Plan is to inspect the installation of the initial storage requirements, perimeter control BMPs and sediment basins in accordance with the part IV.A.5. within 7 days of installation.
- Non-exempt activities shall not be conducted within the 25 or 50-foot undisturbed stream buffers as measured from the point of wreted vegetation without first acquiring the necessary variances and permits.
- Amendments/revisions to the ES&PC Plan which have significant effect on BMPs with a hydraulic component must be certified by the design professional.
- Waste materials shall not be discharged to waters of the State, except as authorized by the section 404 permit.
- The escape of sediment from the site shall be prevented by the installation of erosion and sediment control measures and practices prior to 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 shall be implemented to control or treat the sediment source.
- Any disturbed area left exposed for a period greater than 14 days shall be stabilized with mulch or temporary seeding.
- Any construction activity which discharges stormwater into an Impaired Stream Segment, or within 1 linear mile upstream of and within the same watershed as, any portion of the Biota Impaired Stream Segment must comply with Part III.C. of the Permit. Include the completed Appendix 1 listing all the BMPs that will be used for those areas of the site which discharge to the Impaired Stream Segment.
- Concrete washdown of tools, concrete mixer chutes, hoppers and rear of the vehicles at the construction site is prohibited. See Details for additional information.

Project GPS Coordinates: (Provide project specific coordinates)

Beginning: Latitude 32.0196262° Longitude -80.8994655°

End: Latitude 32.0252073° Longitude -80.8970727°

Stormwater Sampling

Sample Analysis

Analyze stormwater samples in accordance with methodology and test procedures established by 40 CFR Part 136 and the guidance document titled "NPDES Storm Water Sampling Guidance Document, EPA 833-B-92-001."

Sample stormwater for nephelometric turbidity units (NTU) at the outfall location. A discharge of stormwater runoff from disturbed areas where best management practices have not been properly designed, installed, and maintained shall constitute as a separate violation for each day on which such condition results in the turbidity of the discharge exceeding 750, the value that was selected from Appendix B in Permit No. GAR 100002. The NTU is based upon the disturbed acreage of 1.36 acres for the project site, the surface water drainage area of 10,577 square miles and receiving water which supports warm water fisheries.

Sample Type

Collect all sampling by "grab samples." Conduct analysis in accordance with methodology and test procedures established by 40 CFR Part 136 (unless other test procedures are approved); the guidance document titled "NPDES Storm Water Sampling Guidance Document, EPA 833-B-92-001" and guidance documents that may be prepared by EPD.

Per NPDES Permit GAR 100002, label sample containers prior to collecting the samples. Samples should be well mixed before transferring to a secondary container. Use large mouth, well cleaned and rinsed glass or plastic jars should be used for collecting samples. The jars should be cleansed thoroughly to avoid contamination. Manual, automatic, or rising stage sampling may be utilized.

Sampling points (Provide project specific sampling locations and SWM numbers)

There will be four stormwater sampling locations numbers SWM-1 through SWM-4. Sampling locations numbered SWM-1 through SWM-2 will be upstream sampling points. Sampling locations numbered SWM-3 and SWM-4 will be the downstream locations. Per NPDES Permit GAR 100002, for construction activities, the Primary Permittee must complete all sampling.

Appendix B was used to determine the NTU unit allowable. Perform upstream and downstream sampling for this project.

- Avoid stirring the bottom sediments in the receiving water(s) or in the outfall stormwater channel
- Hold sampling container so opening faces upstream
- Keep samples clean of floating debris
- Primary Permittee does not have to sample sheet flow onto undisturbed natural areas or areas stabilized by the project.

Sampling Frequency

Take stormwater samples for the following storm events:

- For each area of the site that discharges to a receiving stream, the first rain event that reaches or exceeds 0.5 inch and allows for monitoring during normal business hours (Monday through Friday, 8:00 am to 5:00pm and Saturday 8:00 am to 5:00pm when construction activity is being conducted by the Primary Permittee) that occurs after all clearing and grubbing operations have been completed in the drainage area of the location selected as the sampling location;
- In addition to (a) above, for each area of the site that discharges to a receiving stream, the first rain event that reaches or exceeds 0.5 inch and allows for monitoring during normal business hours that occurs either 90 days after the first sampling event or after all mass grading operations have been completed in the drainage area of the location selcted as the sampling location, whichever comes first;
- At the time of sampling performed pursuant to (a) and (b) above, if BMPs are found to be properly designed, installed, and maintained, no further action is required. If BMPs in any area of the site that discharge to a receiving stream are not properly designed, installed and maintained, define corrective action and implement within 2 business days and take turbidity samples from discharges from that area of the site for each subsequent rain event that reaches or exceeds 0.5 inch during normal business hours until the selected turbidity standard is attained or until post-storm event inspections determine that BMPs are properly designed, installed and maintained.

- The primary permittee must sample in accordance with the Plan at least once for each rainfall event described below. For a qualifying event, the permittee shall sample at the beginning of any storm water discharge to a monitored receiving water and/or from a monitored outfall location within forty-five (45) minutes or as soon as possible.
- However, where manual and automatic sampling are impossible (as defined in this permit), or are beyond the permittee's control, the permittee shall take samples as soon as possible, but in no case more than twelve (12) hours after the beginning of the storm water discharge.

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**EROSION AND SEDIMENT
CONTROL NARRATIVE**

PROJECT	SHEET NUMBER

Sampling Frequency (continued)

- (3). Sampling by the permittee shall occur for the following qualifying events:
- (a). For each area of the site that discharges to a receiving water or from an outfall, the first rain event that reaches or exceeds 0.5 inch with a storm water discharge that occurs during normal business hours as defined in this permit. after all clearing and grubbing operations have been completed, but prior to completion of mass grading operations, in the drainage area of the location selected as the representative sampling location;
 - (b). In addition to (a) above, for each area of the site that discharges to a receiving water or from an outfall, the first rain event that reaches or exceeds 0.5 inch with a storm water discharge that occurs during normal business hours as defined in this permit either 90 days after the first sampling event or after all mass grading operations have been completed, but prior to submittal of a NOT, in the drainage area of the location selected as the representative sampling location, whichever comes first;
 - (c). At the time of sampling performed pursuant to (a) and (b) above, if BMPs in any area of the site that discharges to a receiving water or from an outfall are not properly designed, installed and maintained, corrective action shall be defined and implemented within two (2) business days, and turbidity samples shall be taken from discharges from that area of the site for each subsequent rain event that reaches or exceeds 0.5 inch during normal business hours* until the selected turbidity standard is attained, or until post-storm event inspections determine that BMPs are properly designed, installed and maintained;
 - (d). Where sampling pursuant to (a), (b) or (c) above is required but not possible (or not required because there was no discharge), the permittee, in accordance with Part IV.D.4.a.(6), must include a written justification in the inspection report of why sampling was not performed. Providing this justification does not relieve the permittee of any subsequent sampling obligations under (a), (b) or (c) above; and
 - (e). Existing construction activities, i.e., those that are occurring on or before the effective date of this permit, that have met the sampling required by (a) above shall sample in accordance with (b). Those existing construction activities that have met the sampling required by (b) above shall not be required to conduct additional sampling other than as required by (c) above.

*Note that the Permittee may choose to meet the requirements of (a) and (b) above by collecting turbidity samples from any rain event that reaches or exceeds 0.5 inch and allows for sampling at any time of the day or week.

Inspections

a. Permittee requirements.

- (1). Each day when any type of construction activity has taken place at a primary permittee's site, certified personnel provided by the primary permittee shall inspect: (a) all areas at the primary permittee's site where petroleum products are stored, used, or handled for spills and leaks from vehicles and equipment and (b) all locations at the primary permittee's site where vehicles enter or exit the site for evidence of off-site sediment tracking. These inspections must be conducted until a Notice of Termination is submitted.
- (2). Measure rainfall once every 24 hours except any non-working Saturday, non- working Sunday and non-working Federal holiday until a Notice of Termination is submitted. Measurement of rainfall may be suspended if all areas of the site have undergone final stabilization or established a crop of annual vegetation and a seeding of target perennials appropriate for the region.
- (3). Certified personnel (provided by the primary permittee) shall inspect the following at least once every fourteen (14) calendar days and within 24 hours of the end of a storm that is 0.5 inches rainfall or greater (unless such storm ends after 5:00 PM on any Friday or on any non- working Saturday, non-working Sunday or any non-working Federal holiday in which case the inspection shall be completed by the end of the next business day and/or working day, whichever occurs first): (a) disturbed areas of the primary permittee's construction site ; (b) areas used by the primary permittee for storage of materials that are exposed to precipitation ; and (c) structural control measures. Erosion and sediment control measures identified in the Plan applicable to the primary permittee's site shall be observed to ensure that they are operating correctly. Where discharge locations or points are accessible, they shall be inspected to ascertain whether erosion control measures are effective in preventing significant impacts to receiving water(s). For areas of a site that have undergone final stabilization or established a crop of annual vegetation and a seeding of target perennials appropriate for the region, the permittee must comply with Part IV.D.4.a.(4). These inspections must be conducted until a Notice of Termination is submitted.
- (4). Certified personnel (provided by the primary permittee) shall inspect at least once per month during the term of this permit (i.e., until a Notice of Termination is submitted to EPD) the areas of the site that have undergone final stabilization or established a crop of annual vegetation and a seeding of target perennials appropriate for the region. These areas shall be inspected for evidence of, or the potential for, pollutants entering the drainage system and the receiving water(s). Erosion and sediment control measures identified in the Plan shall be observed to ensure that they are operating correctly. Where discharge locations or points are accessible, they shall be inspected to ascertain whether erosion control measures are effective in preventing significant impacts to receiving water(s).
- (5). Based on the results of each inspection, the site description and the pollution prevention and control measures identified in the Erosion, Sedimentation and Pollution Control Plan, the Plan shall be revised as appropriate not later than seven (7) calendar days following each inspection. Implementation of such changes shall be made as soon as practical but in no case later than seven (7) calendar days following each inspection.

- (6). A report of each inspection that includes the name(s) of certified personnel making each inspection, the date(s) of each inspection, construction phase (i.e., initial, intermediate or final), major observations relating to the implementation of the Erosion, Sedimentation and Pollution Control Plan, and actions taken in accordance with Part IV.D.4.a.(5). of the permit shall be made and retained at the site or be readily available at a designated alternate location until the entire site or that portion of a construction project that has been phased has undergone final stabilization and a Notice of Termination is submitted to EPD. Such reports shall be readily available by end of the second business day and/or working day and shall identify all incidents of best management practices that have not been properly installed and/or maintained as described in the Plan. Where the report does not identify any incidents, the inspection report shall contain a statement that the best management practices are in compliance with the Erosion, Sedimentation and Pollution Control Plan. The report shall be signed in accordance with Part V.G.2. of this permit.

Reporting

- 1. The applicable permittees are required to submit the sampling results to the EPD at the address shown in Part II.C. by the fifteenth day of the month following the reporting period. Reporting periods are months during which samples are taken in accordance with this permit. Sampling results shall be in a clearly legible format. Upon written notification, EPD may require the applicable permittee to submit the sampling results on a more frequent basis. Sampling and analysis of any storm water discharge(s) or the receiving water(s) beyond the minimum frequency stated in this permit must be reported in a similar manner to the EPD. The sampling reports must be signed in accordance with Part V.G.2. Sampling reports must be submitted to EPD until such time as a NOT is submitted in accordance with Part VI.
- 2. All sampling reports shall include the following information:
 - a. The rainfall amount, date, exact place and time of sampling or measurements;
 - b. The name(s) of the certified personnel who performed the sampling and measurements;
 - c. The date(s) analyses were performed;
 - d. The time(s) analyses were initiated;
 - e. The name(s) of the certified personnel who performed the analyses;
 - f. References and written procedures, when available, for the analytical techniques or methods used;
 - g. The results of such analyses, including the bench sheets, instrument readouts, computer disks or tapes, etc., used to determine these results;
 - h. Results which exceed 1000 NTU shall be reported as "exceeds 1000 NTU;" and
 - i. Certification statement that sampling was conducted as per the Plan.
- 3. All written correspondence required by this permit shall be submitted by return receipt certified mail (or similar service) to the appropriate District Office of the EPD according to the schedule in Appendix A of this permit. The permittee shall retain a copy of the proof of submittal at the construction site or the proof of submittal shall be readily available at a designated location from commencement of construction until such time as a NOT is submitted in accordance with Part VI. If an electronic submittal is provided by EPD then the written correspondence may be submitted electronically; if required, a paper copy must also be submitted by return receipt certified mail or similar service.

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NO.	DATE	BY	REVISIONS

U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION
OFFICE OF FEDERAL LANDS HIGHWAY

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**EROSION AND SEDIMENT
CONTROL NARRATIVE**

Sheet 5 of 7

PROJECT	SHEET NUMBER

Retention of Records

1. The primary permittee shall retain the following records at the construction site or the records shall be readily available at a designated alternate location from commencement of construction until such time as a NOT is submitted in accordance with Part VI:
 - a. A copy of all Notices of Intent submitted to EPD;
 - b. A copy of the Erosion, Sedimentation and Pollution Control Plan required by this permit;
 - c. The design professional's report of the results of the inspection conducted in accordance with Part IV.A.S. of this permit;
 - d. A copy of all sampling information, results, and reports required by this permit;
 - e. A copy of all inspection reports generated in accordance with Part IV.D.4.a. of this permit;
 - f. A copy of all violation summaries and violation summary reports generated in accordance with Part III.D.2. of this permit; and
 - g. Daily rainfall information collected in accordance with Part IV.D.4.a.(2). of this permit.
2. Copies of all Notices of Intent, Notices of Termination, inspection reports, sampling reports (including all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation), or other reports requested by the EPD, Erosion, Sedimentation and Pollution Control Plans, records of all data used to complete the Notice of Intent to be covered by this permit and all other records required by this permit shall be retained by the permittee who either produced or used it for a period of at least three years from the date that the NOT is submitted in accordance with Part VI of this permit. These records must be maintained at the permittee's primary place of business or at a designated alternative location once the construction activity has ceased at the permitted site. This period may be extended by request of the EPD at any time upon written notification to the permittee.

(Show Temporary and Permanent seed mixes in the Narrative and the Erosion & Sediment Control Plans)

(Provide project specific seed mixes)

<u>Name of Seed</u>	<u>November through March (pounds per acre)</u>
Millet	10
Cereal grass (oat)	30.5
Bermuda grass. Common (Cynodon dactylon)	11
Ryegrass, perennial (Lolium perenne)	13
Ryegrass, annual (Lolium multiflorum)	13
Total Seed	77.5
<u>Name of Seed</u>	<u>April through October (pounds per acre)</u>
Bermuda grass. Common (Cynodon dactylon)	11
Bermuda grass, hybrid (Cynodon spp)	11
Zoysia (Zoysia spp)	2
Carpetgrass (Axonopus affinis)	2
Total Seed	26

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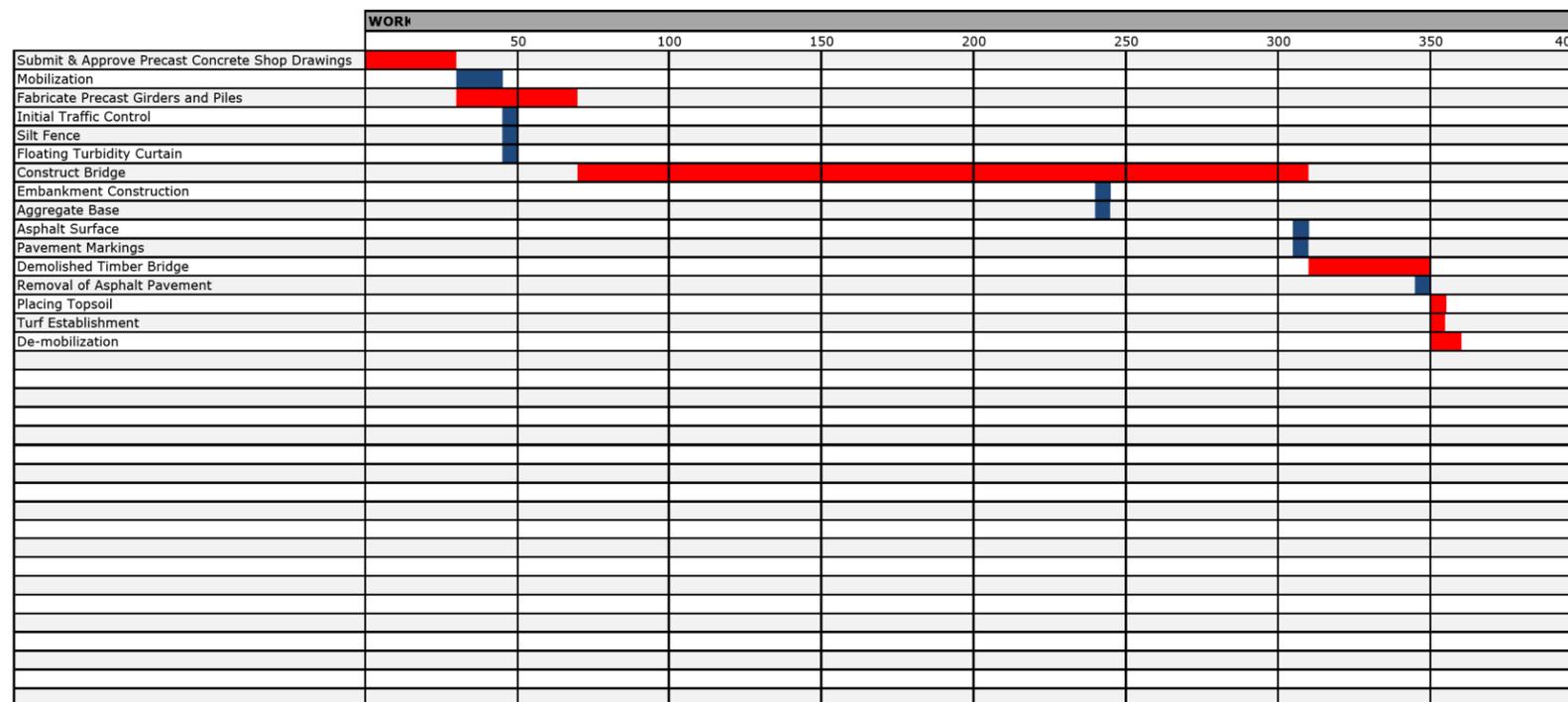
NO.	DATE	BY	REVISIONS

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**EROSION AND SEDIMENT
CONTROL NARRATIVE**

PROJECT	SHEET NUMBER

FTNP-FOPU 10(3) - 100%CPM



**** PROVIDE A SCHEDULE OF MAJOR PROJECT ACTIVITIES ****

GENERALLY ACCEPTABLE TO EDIT THE PROJECT CPM TO REMOVE THE CALENDAR DAYS AND SUBSTITUTE WITH MONTHS. ATTACH EDITED CPM TO THE NARRATIVE

**** DO NOT SHOW CALENDAR DAYS ****

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NO.	DATE	BY	REVISIONS

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EROSION AND SEDIMENT CONTROL NARRATIVE

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