

November 19, 2014

STATE OF RHODE ISLAND AND PROVIDENCE PLANTATION  
DEPARTMENT OF ADMINISTRATION

DIVISION OF PURCHASES BID NO. 2015028

RHODE ISLAND DEPARTMENT OF TRANSPORTATION

RHODE ISLAND CONTRACT NO.2015-CB-028

FEDERAL-AID PROJECT NO. FAP Nos: BHO-0483(001)

**Bridge Nos. 483-486 Pier Cap Replacement and Miscellaneous Bridge Repairs**

US Route 1 Bridge No. 483, 484, 485 and 486

CITY/TOWN OF South Kingstown

COUNTY OF WASHINGTON

NOTICE TO PROSPECTIVE BIDDERS

ADDENDUM NO. 1 Prospective bidders and all concerned are hereby notified of the following changes in the Plans, Specifications, Proposal and Distribution of Quantities for this contract. These changes shall be incorporated in the Plans, Specifications, Proposal and Distribution of Quantities, and shall become an integral part of the Contract Documents.

**A. Plans**

1. Sheet No. 9 Temporary Support Sections and Details Bridge No. 483  
Delete Sheet No. 9 in its entirety and replace with revised Sheet No. 9 (R-1) attached to this Addendum No. 1. Note 2 has been revised.
2. Sheet No. 12 Temporary Support System Details  
Delete Sheet No. 12 in its entirety and replace with revised Sheet No. 12 (R-1) attached to this Addendum No. 1. Suggested preliminary jacking loads and notes have been added.

**B. Contract Documents**

1. Bid-Opening Date  
Bid-Opening Date updated to "12/03/2014"
2. Substantial Completion Date  
Substantial Completion Date updated to "09/12/2016"

3. General Provisions – Contract Specific
  - a. Delete Page CS-i in its entirety and replace with revised Page CS-i (R-1) attached to this Addendum No. 1. The Soil Erosion and Sediment Control (SESC) Plan and Specialty Items have been added to the index and numbering has been revised.
  - b. Delete Page CS-4 in its entirety and replace with revised Page CS-4 (R-1) attached to this Addendum No. 1. Language specifying that the contractor is required to provide a submittal for the debris removal/containment systems for Bridge No.'s 483, 484, and 486 was added. Language specifying date by which work on Bridge No. 483 needs to commence was added.
  - c. Delete Page CS-5 in its entirety and replace with revised Page CS-5 (R-1) attached to this Addendum No. 1. Language specifying a modified winter shutdown for Bridge No. 483 has been added.
  - d. Delete Page CS-7 in its entirety and replace with revised Page CS-7 (R-1) attached to this Addendum No. 1. Language specifying galvanized bars instead of epoxy coated bars was revised and galvanized spirals were added to the shop drawing list.
  - e. Delete Page CS-8 in its entirety and replace with revised Page CS-8 (R-1) attached to this Addendum No. 1. The Soil Erosion and Sediment Control (SESC) Plan has been added
  - f. Insert new Page CS-9 attached to this Addendum No. 1. Specialty Items have been added.
  - g. Insert new Soil Erosion and Sediment Control (SESC) Plan attached to this Addendum No. 1 to Appendix C. The Soil Erosion and Sediment Control (SESC) Plan has been added.
4. Specification/Job Specific
  - a. Delete Index Page JS-i in its entirety and replace with revised Index Page JS-i (R-1) attached to this Addendum No. 1. Item Codes 817.9901 to 817.9904 have been revised to “Fiber Wrap Existing Concrete Columns and Pier Caps (Bridge No. \_\_\_\_).
  - b. Delete Page JS-3 in its entirety and replace with revised Page JS-3 (R-1) attached to this Addendum No. 1. Substantial Completion date has been revised.
  - c. Delete Pages JS-59 and JS-72 in their entirety and replace with revised Page JS-59 (R-1) and JS-72 (R-1) attached to this Addendum No. 1. Item Codes 817.9901 to 817.9904 have been revised to “Fiber Wrap Existing Concrete Columns and Pier Caps (Bridge No. \_\_\_\_)”.
  - d. Delete Page JS-73 in its entirety and replace with revised Page JS-73 (R-1) attached to this Addendum No. 1. Language under Item Code 818.9901 description has been revised.

**C. Distribution of Quantities**

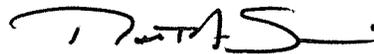
1. Index Page 1  
Delete Index Page 1 in its entirety and replace with revised Index Page 1 (R-1) attached to this Addendum No. 1. The index has been revised.
2. Page 14  
Delete Page 14 in its entirety and replace with revised Page 14 (R-1) attached to this Addendum No. 1. Item Code 817.9901 has been revised to “Fiber Wrap Existing Concrete Columns and Pier Caps (Bridge No. \_\_\_\_)” and has been made a specialty item.
3. Page 14a  
Insert new Page 14a attached to this Addendum No. 1. Item Code 817.9901 has been revised.

4. Page 15

Delete Page 15 in its entirety and replace with revised Page 15 (R-1) attached to this Addendum No. 1. Item Codes 817.9902 to 817.9904 have been revised to "Fiber Wrap Existing Concrete Columns and Pier Caps (Bridge No. \_\_\_\_)" and have been made specialty items.

5. Page 15a

Insert new Page 15a attached to this Addendum No. 1. Item Code 818.9901 has been repaginated.



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RI Department of Transportation  
Chief Engineer 





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Appendix A: Transportation Management Plan

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## 5. SEQUENCE OF CONSTRUCTION/MAINTENANCE AND MOVEMENT OF TRAFFIC:

### A. Action Required by Contractor:

Approval of the work sequence and time schedule is required before the start of all construction or other work associated with this contract. The proposed construction and time schedule must consider and address the safe vehicle passage through the project.

The Contractor must submit, for the Department review and acceptance, a detailed construction schedule that complies with the Specification 108.03. The required Schedule Level for this project is B. Per the specifications, the contractor is required to generate the Schedules in Primavera P6, Version 7 or 8.

The Contractor shall be responsible for coordinating with the Towns of South Kingstown and Narragansett.

During pavement removal operations, no over breakage into existing operational travel lanes will be allowed.

Temporary detours are restricted to overnight hours only, between 10:00 PM and 5:00 AM. The cost of the work zone lighting required for overnight operations shall be incidental to the contract in accordance with Section T.22 Lighting for Night Work Operations in the Standard Specifications. No separate payment will be made for lighting of the work zone during overnight operation.

Work on Bridge 483 should commence by March 15, 2015 in order to fulfill all TMP requirements.

Bridge 485 will require installing a debris removal/containment system prior to work commencing in order to protect the tidal waters beneath the bridge. The contractor is required to provide a submittal for the debris removal/containment and receive approval for this submittal prior to any work at Bridge 485. Bridge 483, 484, and 486 will also require installing a debris removal/containment system or temporary shielding system and the contractor is required to provide a submittal for approval.

Construction access to Bridge 485 will be via the municipal boat ramp off of Salt Pond Road. If for some reason the Contractor is unable to utilize the access area identified then a modification to the approved CMRC Assent Plans, along with supporting documentation and applicable CRMC Assent Modification form(s), for review by RIDOT. Documentation will discuss reasons for the modification and will identify any new/modified impacts to CRMC resource areas. Plans and documentation will be submitted to RIDOT which, upon concurrence with proposed modification, will forward plans, forms and documentation to the CRMC for review and processing.

All deviations from the requirements stated here or detailed in the plans, as well as all deviation from the approved construction sequence and time schedule, must be submitted to the Engineer in writing for approval as required in the R.I. Standard Specifications for Road and Bridge Construction.

Locations of surface features of utilities shown on the plans are approximate. The

Contractor shall check and verify the exact location of all existing utilities, both underground and overhead, with Dig Safe. The cost to repair all damages to utilities shall be the Contractor's responsibility.

All work shall be completed in accordance with the Traffic – Related Work Restrictions indicated in the Transportation Management Plan.

The Contractor shall restore complete operation on Route 1 and all other roadways by the appropriate time as stated in the TMP.

There will be a modified winter shutdown period for Bridge No. 483. The winter shutdown period will be from December 15<sup>th</sup> through March 1<sup>st</sup>.

The cost for the removal or relocation of temporary traffic barriers to access the work sites shall be considered incidental to the work under this contract. No additional payment shall be made.

#### **6. CONTRACTOR'S RESPONSIBILITY FOR DAMAGED STORM DRAINS**

The Contractor shall use care when working within or in the vicinity of existing drainage structures. All drainage structures, pipes or culverts damaged during the disposal of, cleaning of, installation of, or while making repairs to drainage structures, pipes or culverts, or carrying out all other work on this contract, shall be the Contractor's responsibility. All pipe/culvert damaged by the Contractor while carrying out this contract shall be replaced or repaired by the Contractor to the satisfaction of the Engineer at no additional charge to the State. Refer also to the requirements set forth in Part 22.

#### **7. STORAGE OF CONSTRUCTION MATERIAL AND/OR EQUIPMENT**

Storage of construction material and/or equipment shall be a minimum distance of 30 feet from the roadway. Under no circumstances shall the Contractor store construction equipment, materials, or signs on top of the root systems of trees along the project or within the resource areas such as wetlands. The Contractor shall identify and coordinate stockpile areas with the RIDOT Highway and Maintenance Section. Stockpiled materials shall be removed from the project in a timely fashion and all disturbed areas returned to pre-construction condition or better.

An area located within RIDOT's ROW between the Route 1 ramp on the south side adjacent to Pond Street has been identified for laydown areas for Bridge 485. The Laydown area will be located on the western side of Pond Street within the RIDOT ROW and will have erosion and sediment controls installed around them to protect downstream resources. The Contractor shall restore any disturbed land, curbing or fence at the completion of the work to existing conditions or better. The Laydown areas shall not be located within regulated wetland or buffer zone areas. The stockpile and Laydown areas for Bridge 485 are approved for use by CRMC. If for some reason the Contractor is unable to utilize the Laydown area identified on the plans or would like to utilize additional areas outside of this specified area then a modification to the CMRC will need to be submitted by the Contractor for review by RIDOT to analyze all potential impacts to resource areas that another location may result in.

#### **8. MAINTENANCE OF PUBLIC AREAS**

The Contractor shall provide a plan showing the elevations and locations of the existing pier caps and pedestals prior to demolition of the pier caps.

The Contractor shall provide, install, maintain and remove a floating turbidity barrier at Bridge No. 485. All work within or adjacent to Saugatuck River/Silver Spring Cove shall adhere to requirements of the Rhode Island CRMC Assent.

#### 14. SURVEY

The Contractor is responsible for providing all the survey required to complete work in this contract. This work shall be performed in accordance with Section 934 of the latest Compilation of Approved Specifications. The survey shall be done by a Professional Land Surveyor registered in the State of Rhode Island and the cost shall be considered incidental to the work under this project.

#### 15. SHOP DRAWINGS

Shop drawing submittals by the Contractor shall be distributed as follows:

- Two copies to Green International Affiliates, Inc. (239 Littleton Road, Suite 3, Westford, MA 01886 Phone: 978-923-0400 Attn: Shahvir Vimadalal, P.E.) by courier or overnight delivery
- Eight copies to the Resident Engineer
- List of required shop drawings:
  - o Concrete Substructure Class HP ¾” Piers, Col, Cap (Item No. 808.0601)
    - Mix Design
    - Cement Properties
    - Aggregate Properties
    - Slump Test
  - o Temporary Support System (Bridge No. \_\_\_\_ ) (Item Nos. 805.9901-805.9904)
    - Frame Design
    - Jack Literature
    - Jacking Procedure
    - Concrete Pavers
    - Neoprene Elastomeric Bearing Pad
    - Support of Excavation
  - o Asphaltic Expansion Joint System (Item No. 823.1750)
  - o Fixed Joints – Saw & Sealing Joints in Bituminous Concrete Pavement (Item No. 821.1690 )
  - o Elastomeric Bearings Laminated (Item No. 828.0303 )
  - o Galvanized Bar Reinforcement for Structures (Item No. 810.9901)
    - Reinforcing Schedule for Pier Caps
  - o Galvanized Spirals for Columns (Item No. 810.9902)
  - o Repair Details
    - Repairs to Structural Concrete Masonry (Pneumatic Mortar) (Item No. 817.2100)
    - Repairs to Structural Concrete Masonry (Patching Mortar) (Item No. 817.2110)
    - Repairs to Structural Concrete Beams (Patching Mortar) (Item No. 817.2110)

- Aluminum Bridge Rail 1 Bar Structural (Item No. 830.0111)
- Structural Concrete Crack Repair By Epoxy-Resin Base Adhesive Injection (Item No. 836.0100)
- Fiber Wrap Concrete Columns & Pier Caps (Bridge No. \_\_\_) (Item Nos. 817.9901-817.9904)
  - Fiber Wrap Material
- Demolition
  - Partial Removal and Disposal of Existing Concrete Masonry (Item No. 803.0300)
  - Full Depth Removal and Disposal of Bituminous Pavement from Concrete Bridge Decks (Item No. 839.0200)

## 16. TRANSPORTATION MANAGEMENT PLAN

Included as an Appendix to these Contract Specific General Provisions is the Transportation Management Plan (TMP) for this project. The TMP lays out the set of coordinated transportation management strategies that will be used to manage the work zone safety and mobility impacts of this project. In the event of a discrepancy between information in the TMP and information elsewhere in the Contract Documents, the former shall govern.

The Contractor's attention is called to **SECTION 103 – AWARD AND EXECUTION OF THE CONTRACT**, which describes the requirements for the Contractor's designation of a TMP Implementation Manager for the Contract.

The Contractor's attention is called to **SECTION 105 – CONTROL OF WORK**, which describes the requirements for the training of all Contractor and Subcontractor personnel involved in the work zone design, implementation, operation, inspection, management, and/or enforcement.

*The Department's latest Training Guidelines for Personnel Responsible for Work Zone Safety & Mobility are available under the "Training" section at <http://www.dot.ri.gov/humanresources/index.asp>.*

The TMP is included in Appendix A.

## 17. COASTAL RESOURCES MANAGEMENT COUNCIL ASSENT

The contractor shall perform all work in accordance with the Coastal Resources Management Council Assent included in Appendix B.

## 18. SOIL EROSION AND SEDIMENT CONTROL PLAN

The Soil Erosion and Sediment Control Plan is included in Appendix C.

**19. SPECIALTY ITEMS**

The following items are hereby designated as “Specialty Items”:

- Fiber Wrap Existing Concrete Columns and Pier Caps (Bridge No. 483)
- Fiber Wrap Existing Concrete Columns and Pier Caps (Bridge No. 484)
- Fiber Wrap Existing Concrete Columns and Pier Caps (Bridge No. 485)
- Fiber Wrap Existing Concrete Columns and Pier Caps (Bridge No. 486)

# Soil Erosion and Sediment Control Plan

**For:**

**Bridge No's 483-486 Pier Cap Replacement and Miscellaneous Bridge Repairs**

US Route 1

South Kingstown & Narragansett, RI

**Owner:**

RI DEPARTMENT OF TRANSPORTATION

Frank Corrao, III, P.E.

2 Capitol Hill

Providence, RI 02903

401-222-2468

Email Address

**Operator:**

*TO BE DETERMINED UPON  
CONTRACT AWARD*

TO BE DETERMINED - Company Name

Name

Address

City, State, Zip Code

Telephone Number

Email Address

**Estimated Project Dates:**

Start Date: Spring 2015

Completion Date: Summer 2016

**SESC Plan Prepared By:**

Green International Affiliates, Inc.

Ko Ishikura, P.E.

239 Littleton Rd, Suite 3

Westford, MA 01886

978-923-0400

ko@greenintl.com

**SESC Plan  
Preparation Date:**

November 2014



## OWNER CERTIFICATION

*I certify under penalty of law that this document and all attachments were prepared under the direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete.*

*I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. I am aware that it is the responsibility of the site owner and operator to implement and amend the Soil Erosion and Sediment Control Plan as appropriate in accordance with the requirements of the RIPDES Construction General Permit.*

---

Owner Signature:

Date

Owner Name: Frank Corrao, III, P.E.

Owner Title: Deputy Chief Engineer

Company Name: Rhode Island Department of Transportation

Address: 2 Capitol Hill, Providence, RI 02903

Phone Number: 401-222-2468

Email Address: Email

## OPERATOR CERTIFICATION

*I certify under penalty of law that this document and all attachments were prepared under the direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete.*

*I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. I am aware that it is the responsibility of the owner/operator to implement and amend the Soil Erosion and Sediment Control Plan as appropriate in accordance with the requirements of the RIPDES Construction General Permit.*

---

Operator Signature:

Date

Contractor Representative: Name

Contractor Title: Title

Contractor Company Name: Company Name (if applicable)

Address: Mailing Address

Phone Number: Phone Number

Email Address: Email

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## INTRODUCTION

This Construction Site Soil Erosion and Sediment Control Plan (SESC Plan) has been prepared for the State of Rhode Island Department of Transportation (RIDOT) for the construction work to bridges 483, 484, 485, and 486 in the towns of South Kingstown and Narragansett. In accordance with the RIDEM Rhode Island Pollutant Discharge Elimination System (RIPDES) General Permit for Stormwater Discharge Associated with Construction Activity (RIPDES Construction General Permit ("CGP")), projects that disturb one (1) or more acres require the preparation of a SESC Plan. This SESC Plan provides guidance for complying with the terms and conditions of the RIPDES Construction General Permit. However, this document does not negate or eliminate the need to understand and adhere to all applicable RIPDES regulations.

The purpose of erosion, runoff, and sedimentation control measures is to prevent pollutants from leaving the construction site and entering waterways or environmentally sensitive areas during and after construction. This SESC Plan has been prepared prior to the initiation of construction activities to address anticipated worksite conditions. The control measures depicted on the site plan and described in this narrative should be considered the minimum measures required to control erosion, sedimentation, and stormwater runoff at the site. Since construction is a dynamic process with changing site conditions, it is the operator's responsibility to manage the site during each construction phase so as to prevent pollutants from leaving the site. This may require the operator to revise and amend the SESC Plan during construction to address varying site and/or weather conditions, such as by adding or realigning erosion or sediment controls, to ensure the SESC Plan remains compliant with the RIPDES Construction General Permit. Records of these changes must be added to the amendment log attached to the SESC Plan, and to the site plans as "red-lined" drawings. *Please Note: **Even if practices are correctly installed on a site according to the approved plan, the site is only in compliance when erosion, runoff, and sedimentation are effectively controlled throughout the entire site.***

It is the responsibility of the site owner and the site operator to maintain the SESC Plan at the site, including all attachments, amendments and inspection records, and to make all records available for inspection by RIDEM during and after construction. (RIPDES CGP - Part III.G)

The site owner, the site operator, and the designated site inspector are required to review the SESC Plan and sign the Party Certification pages (Section 8). The primary contractor (if different) and all subcontractors (if applicable) involved in earthwork or exterior construction activities are also required to review the SESC Plan and sign the certification pages before construction begins.

Any questions regarding the SESC Plan, control measures, inspection requirements, or any other facet of this document may be addressed to the RIDEM Office of Water Resources, RIPDES Permitting Program at 401-222-4700.

## ADDITIONAL RESOURCES

Rhode Island Department of Environmental Management  
Office of Water Resources  
RIPDES Permitting Program  
235 Promenade Street  
Providence, RI 02908-5767  
phone: 401-222-4700  
email: [waterresources@dem.ri.gov](mailto:waterresources@dem.ri.gov)

RIDEM Office of Water Resources website  
<http://www.dem.state.ri.us/programs/benviron/water/index.htm>

RIDEM RIPDES website  
<http://www.dem.state.ri.us/programs/benviron/water/permits/ripdes/index.htm>

RIDEM Water Quality website (for 303(d) and TMDL listings)  
<http://www.dem.ri.gov/programs/benviron/water/quality/index.htm>

RIDEM Rhode Island Natural Heritage Program  
<http://www.dem.ri.gov/programs/bpoladm/plandev/heritage/index.htm>

RIDEM Geographic Data Viewer – Environmental Resource Map  
<http://www.dem.ri.gov/maps/index.htm>

RIDEM *RI Stormwater Design and Installation Standards Manual* (RISDISM) (as amended)  
<http://www.dem.state.ri.us/programs/benviron/water/permits/ripdes/stwater/t4guide/desman.htm>

RIDEM, USDA Soil Conservation Service, and RI State Conservation Committee *Soil Erosion and Sediment Control Handbook* (as amended)  
[http://www.dot.ri.gov/documents/enviro/stormwater/Soil\\_Erosion\\_Sediment\\_Control\\_Handbook.pdf](http://www.dot.ri.gov/documents/enviro/stormwater/Soil_Erosion_Sediment_Control_Handbook.pdf)

Rhode Island Department of Transportation *Standard Specifications for Road and Bridge Design and Other Specifications* and *Standard Details*  
<http://www.dot.ri.gov/engineering/standards/index.asp>

Natural Resources Conservation Service - Rhode Island Soil Survey Program  
<http://www.ri.nrcs.usda.gov/technical/soils.html>

EPA NPDES Stormwater Pollution Prevention Plan Guidance website  
<http://cfpub.epa.gov/npdes/stormwater/SWPPP.cfm#guide>

EPA National Menu of Stormwater Best Management Practices  
<http://cfpub.epa.gov/npdes/stormwater/menuofbmps>

## SECTION 1: SITE DESCRIPTION

### 1.1 Project/Site Information

Project/Site Name:

- 483-486 PIER CAP REPLACEMENT AND MISCELLANEOUS BRIDGE REPAIRS

A SESC was previously prepared for the roadway improvements program for Route 1 (Commodore Perry Highway) in South Kingstown and Narragansett. The highway work and bridge work (excluding the pier cap replacement) included in the original SESC has been completed. In the description of work provided with that SESC, it was reported that limited bridge repair work would occur at three (3) highway bridges in the easternmost area of the project, all in the Town of South Kingstown. These bridges are: RIDOT Bridge No. 484, which carries Route 1 over Salt Pond Road; Bridge No. 485, which carries Route 1 over the Saugatuck River and Silver Springs Cove outlet; and Bridge No. 486, which carries Route 1 over Pond Street. This SESC is being submitted to reflect a revised scope of work at these three bridges as well as the inclusion of work at RIDOT Bridge No. 483, which carries Route 1 over Woodruff Avenue in Narragansett, RI.

The work proposed for Bridge No. 485 includes: removing existing asphaltic plug joints and replacing them with new asphaltic plug joint system, replace pier cap, repair pier columns and install fiber wrap, repair abutments/wingwalls spalls and cracks, repair beam ends and repair missing rails. The work for Bridge No. 486 includes: repair of deteriorated columns with concrete patch and carbon fiber wrap; concrete repairs at abutments, repairs to prestressed concrete beam ends; and replacement of existing deck joints with asphaltic plug joints. Similar repairs were proposed for Bridge No. 484. These repairs were made in the spring of 2012.

Recent observations on the condition of the bridges' substructures have noted advanced deterioration of the aforementioned pier caps at all these bridges. This deterioration cannot be effectively addressed by repairs as originally envisioned; and the deterioration is severe enough at this time for RIDOT to post Bridge No. 484 as unsafe for typical truck traffic, and even for fully loaded school buses. If this deterioration is allowed to worsen with this group of bridges, eventually they all will need to be posted, which will impact traffic on local roads and streets, as heavy vehicles are forced to detour around these bridges.

RIDOT now intends that the pier caps for these bridges will be replaced. This work must also take place at RIDOT Bridge No. 483, which carries Woodruff Avenue over Route 1 in the Town of Narragansett, and is the next bridge one encounters as one drives north from Bridge No. 484. Consequently, temporary support structures for the four (4) superstructures will need to be installed to permit the safe removal and replacement of the existing pier caps.

Project Street/Location:

- Rhode Island Route 1 (Commodore Perry Highway), South Kingstown and Narragansett

The following are estimates of the construction site area:

- Total Project Area 4.8 acres
- Total Project Area to be disturbed 1.4 acres

Construction Site Soil Erosion and Sediment Control Plan  
Bridge No's 483-486 Pier Cap Replacement and Miscellaneous Bridge Repairs

**1.2 Nature and Duration of Construction Activity**

In order to replace the bridges' pier caps, temporary support structures for the superstructure will need to be installed to permit the safe removal and replacement of the existing pier caps, which will be done in segments from one edge of the bridge deck to the other. The temporary support structures are to be jacked upwards until they are bearing the full weight of their respective bridge superstructure. Once this weight is removed from the existing pier caps they can be removed and replaced with cast in place pier caps. Once new cast in place units are in place, the jacked temporary support structures can be lowered and removed, and work areas can be restored to pre-existing conditions.

For Bridge No. 485, over the Saugatuck River mouth into Point Judith Pond and the Silver Spring Cove outlet, the piers are located several feet landwards from the edge of the waterway. Its temporary support structures must utilize the top surface of the piers' footings as the stable base upon which jacks can be placed and operated. This will require excavation of slope protection around the piers down to the top of the bridge footings. Appropriate sediment and erosion control measures will be installed to protect waterways and resource areas from any impacts by the proposed activity. These measures may include compost filter tubes with siltation fence and floating turbidity barriers in the waterway. There may be minor/selective vegetation clearing within the limit of work to allow for access and maintenance. Within the limit of work for Bridge 485 there will be no dredging or work below the mean high water line. The following work shall be performed during water at mean low elevation (-1.50):

- Installation of support excavation
- Excavation above pile cap
- Rip-rap removal
- Temporary frame support over pile cap
- Replace rip-rap after temporary support system and pier replacement work is completed

No night work and/or in-water work of any kind for Bridge 485 will be permitted during March 1<sup>st</sup> to June 1<sup>st</sup> and September 15<sup>th</sup> to November 15<sup>th</sup>. At the other bridges, appropriate measures will be taken to protect nearby storm drain inlets from receiving any sediment-laden runoff. No stockpiling or material storage of materials will be allowed along Route 1.

RIDOT has considered multiple options for laydown areas and a construction entrance to the work area with regard to Bridge 485. The options noted in this SESC, is to utilize the municipal boat ramp off of Salt Pond Road for construction access. An area located within RIDOT's ROW between the Route 1 ramp on the south side adjacent to Pond Street has been identified for laydown area 1 (see Sheet 36 – Construction Entrance & Laydown Plan 1). A smaller area in the southeast quadrant of Route 1 and Woodruff Avenue has been identified for laydown area 2 (see Sheet 37 – Construction Entrance & Laydown Plan 2). Laydown area 1 will be located on the western side of Pond Street within the RIDOT ROW. Laydown area 2 will be located on the southern side of Route 1, east of Woodruff Avenue within the RIDOT ROW. Both laydown areas will have erosion and sediment controls installed around them to protect downstream resources. The contractor shall restore any disturbed land, curbing or fence at the completion of the work to existing conditions or better. The Laydown areas will not be located within regulated wetland or buffer zone areas. If for some reason the Contractor is unable to utilize the access and laydown area identified or would like to utilize additional areas outside of this specified area then the SESC will be modified to reflect any changes.

A generalized likely Sequence of Construction for the bridge improvements is presented below:

- Install Sediment and Erosion Controls
- Construct temporary support frame
- Jack existing beams
- Demolish existing pier caps

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- Repair existing columns and beam ends
- Construct new pier caps
- Construct Bearings
- Lower Beams
- Demolish temporary support frame
- Wrap columns and pier caps with fibers
- Remove erosion control and clean site

Estimated Project Start Date: Spring 2015  
Estimated Project Completion Date: Summer 2016  
Estimated Number of Months: 12

**1.3 Receiving Waters**

RIPDES CGP - Parts IV.A.7 & IV.A.8

List/description of receiving waters:

- Point Judith Pond
- Silver Spring Cove

List/description of separate storm sewer systems:

- Outfall 17: Paved waterway approximately 80 feet east of Pond Street on the northbound side of the highway that discharges to Point Judith Pond.
- Outfall 18: Paved waterway along Pond Street on the southbound side of the highway that discharges to Silver Spring Cove.
- Outfall 19: Paved waterway approximately 400 feet east of Pond Street in the median of the highway that discharges to Silver Spring Cove.
- Outfall 23: Paved waterway on the southbound side of the highway that discharges to Silver Spring Cove.
- Outfall 24: Closed pipe system along Salt Pond Road discharges to Point Judith Pond.
- Outfall 27: Paved waterway approximately 80 feet east of Salt Pond Road on the southbound side of the highway that discharges to Point Judith Pond.

List/provide description of 303(d)/TMDL waters and applicable TMDL requirements:

- Upper Point Judith Pond has an Integrated Report Category 4A 303(d), based off of the RI Environmental Resource Map website.

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- A TMDL has been established for Point Judith Pond Waters for Pathogen/Bacteria impairments based off the "TMDL Analysis for Point Judith Pond Waters," dated May 2008. The pollutant of concern is fecal coliform.

**1.4 Natural Heritage Area Information**

RIPDES CGP - Part III.H

Are there any Natural Heritage Areas being disturbed by the construction activity or will discharges be directed to the Natural Heritage Area as a result of the construction activity?

Yes  No

If yes, describe or refer to documentation which determines the likelihood of an impact on this area and the steps that will be taken to address any impacts.

- N/A

**1.5 Historic Preservation/Cultural Resources**

Are there any historic properties, historic cemeteries or cultural resources on or near the construction site?

Yes  No

Describe how this determination was made and summarize state or tribal review comments:

- Based on review of the National Register of Historic Places and Landmarks website at National Park Service ([www.nps.gov/nr/research](http://www.nps.gov/nr/research)) and based on information downloaded at RIGIS under cultural, society, and demography (historic districts, historic sites, and historical cemeteries).

If yes, describe or refer to documentation which determines the likelihood of an impact on this historic property, historic cemetery or cultural resource and the steps taken to address that impact including any conditions or mitigation measures that were approved by other parties.

- N/A

**1.6 Site Features and Sensitive Areas to be Protected**

RISDISM - Section 4.5.1

Sensitive areas and measures that must be implemented to protect them:

- Both Silver Spring Cove and Upper Judith Point Pond are considered waters of the state and need to be protected. The following measures will be implemented throughout construction:
  - Erosion and sedimentation controls will be employed to prevent the erosion and transport of sediment into downstream resource areas during the earthwork and construction phases of the project. Erosion and sedimentation control measures will be installed prior to site excavation or disturbance and will be maintained throughout the construction period. Primary erosion control BMPs include, but are not limited to erosion control blankets, compost filter socks installed within catch basins, and filter bags installed within catch basins.
  - The drainage systems in the project area will remain unchanged and will continue to collect stormwater from Route 1 and the surrounding roadway surfaces and convey it to the discharge points tributary to Silver Spring Cove and Upper Judith Point Pond. As

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crest and sag points along Route 1 will not be modified, and there will be no increase in impervious area, the drainage areas will remain consistent with existing conditions. Following construction of roadway, pedestrian and drainage improvements, the storm drainage system will be flushed and accumulated sediment will be removed from existing and proposed drainage structures.

## SECTION 2: EROSION, RUNOFF, AND SEDIMENT CONTROL

### RIPDES Construction General Permit – Part III.J.1

The purpose of erosion controls is to prevent sediment from being detached and moved by wind or the erosive action of raindrop, sheet, rill, gully, and channel erosion. Properly installed and maintained erosion controls are the primary defense against sediment pollution.

Runoff controls are used to slow the velocity of concentrated water flows. By intercepting and diverting stormwater runoff to a stabilized outlet or treatment practice, erosion and sedimentation are reduced.

Sedimentation controls are the last line of defense against moving sediment. The purpose is to prevent sediment from leaving the construction site and entering environmentally sensitive areas.

This section describes the set of measures that will be installed before and during the construction project to control pollutants in stormwater discharges that will occur at the site. Such measures may include: perimeter controls, stock pile covering, storm drain inlet protection, check dams, and temporary seeding.

Include any applicable references to design specifications and any applicable maintenance requirements.

#### **2.1 Minimize Disturbed Area and Protect Natural Features and Soil**

RISDISM - Minimum Standard 1

As far as is practicable, existing vegetation shall be protected and left in place, in accordance with the clearing limits shown on the approved plans. Prior to any land disturbance activities commencing on the site, the Contractor shall physically mark limits of disturbance (LOD) on the site and any areas to be protected within the site, so that workers can clearly identify the areas to be protected.

- Silver Spring Cove discharges to Upper Point Judith Pond under Bridge 485. A turbidity curtain will be installed within the waterway to protect siltation from entering the waterbodies.

#### **2.2 Phase Construction Activity**

RIPDES CGP - Part III.J.1.a

##### CONSTRUCTION SITE ESTIMATES

The following are estimates of each phase of the construction project:

Total Area	4.8 acres
Area to be disturbed	1.4 acres
Percentage impervious area before construction	40 %
Runoff coefficient before construction	0.69
Percentage impervious area after construction	40 %
Runoff coefficient after construction	0.69

Proper sequencing of construction activities is essential to maximize the effectiveness of erosion, runoff, and sediment control measures. Construction sequencing and timing of construction activities will include:

1. Installation of all erosion, runoff, and sediment controls and temporary pollution prevention measures that are required to be in place and functional before any earthwork begins. This shall be done in accordance with the *Rhode Island Soil Erosion and Sediment Control Handbook* (as amended) and/or the *RI Department of Transportation Standard Specifications for Road and Bridge Construction* (as amended). Upon acceptable completion of site

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preparation and installation of erosion, runoff, and sediment controls and temporary pollution prevention measures, site construction activities may commence.

2. Protection of planned infiltration sites and qualifying pervious areas from compaction.
  3. Upon commencement of site construction activities, the operator shall initiate appropriate stabilization practices on all disturbed areas as soon as possible, but not more than fourteen (14) days after the construction activity in that area has temporarily or permanently ceased.
  4. Routine inspection and maintenance and/or modification of erosion, runoff, and sediment controls and temporary pollution prevention measures while earthwork is ongoing is required.
  5. Final site stabilization of any disturbed areas after earthwork has been completed and removal of temporary erosion, runoff, and sediment controls and temporary pollution prevention measures.
- The limited nature of this project makes the development of phase construction activities impractical. Refer to Section 1.2 for an outline of the sequence of construction activities.

### **2.3 Monitoring Weather Conditions**

Care will be taken to avoid having unstabilized areas exposed during precipitation events. Weather forecasts will be routinely checked, and in the case of an expected precipitation event of over 0.25-inches over a 24-hour period, all control measures will be inspected, and maintained as necessary, prior to the weather event.

In the case of an extreme weather forecast (greater than one-inch of rain over a 24-hour period), additional erosion/sediment controls will be installed where appropriate.

The weather gauge station and website that will be utilized to monitor weather conditions on the construction site is as follows:

- Westerly State Airport, Westerly, RI

### **2.4 Control Stormwater Flowing Onto and Through the Project**

RIPDES CGP - Part III.J.1.b

Drainage Patterns:

- Existing: The existing drainage on Route 1 consists of a mixture of grass swales and paved swales along the edge of roadway, as well as closed pipe networks along the project roadway. Runoff generally flows either north or south towards Point Judith Pond or Silver Spring Cove.
- Proposed: Pre-construction drainage patterns will not change.

Structural control measures are used to divert flows from exposed soils, retain or detain flows, or otherwise limit runoff and the discharge of pollutants from exposed areas of the site.

Control measures shall be installed as depicted on the approved plan set and in accordance with the *Rhode Island Soil Erosion and Sediment Control Handbook* (as amended) or the *RI Department of Transportation Standard Specifications for Road and Bridge Construction*.

- Compost filter tubes with siltation fence will be installed around the perimeter of the laydown area for Bridge 485. Silt filter bag inserts and compost filter socks will be installed at each existing catch basin within the limit of work prior to construction commencing.

## 2.5 Stabilize Soils

RIPDES CGP - Part III.J.1.c

Upon completion and acceptance of site preparation and initial installation of erosion, runoff, and sediment controls and temporary pollution prevention measures, the operator shall initiate appropriate stabilization practices during all phases of construction on all disturbed areas as soon as possible, but not more than fourteen (14) days after the construction activity in that area has temporarily or permanently ceased.

Any disturbed areas that will not have active construction activity occurring within 14 days must be stabilized using the control measures depicted on the approved plan set and in accordance with applicable measures specified in the *Rhode Island Soil Erosion and Sediment Control Handbook* (as amended).

Only areas that can be reasonably expected to have active construction work being performed within 14 days of disturbance will be cleared/grubbed at any one time. It is NOT acceptable to clear and grub the entire construction site if portions will not be active within the 14-day time frame. Proper phasing of clearing and grubbing activities shall include temporary stabilization techniques for areas cleared and grubbed that will not be active within the 14-day time frame.

All disturbed soils exposed prior to October 15 of any calendar year shall be seeded or protected by that date. Any such areas that do not have adequate vegetative stabilization, as determined by the site operator or designated inspector, by November 15 of any calendar year, must be stabilized through the use of structural erosion control measures (examples included but are not limited to: erosion control matting or mulch, in accordance with specifications contained within the *RI Soil Erosion and Sediment Control Handbook* (as amended). If work continues within any of these areas during the period from October 15 through April 15, care must be taken to ensure that only the area required for that day's work is exposed, and all erodible soil must be restabilized within 5 working days.

Clearing/Grubbing shall not take place during a rain event if erosion is likely to occur; nor shall it occur if a rain event is forecasted and appropriate erosion controls cannot be installed prior to the storm.

After clearing, and by the end of each day's grubbing operation, the site operator shall install erosion control measures that are indicated on the Plans or as directed by the Engineer. Such erosion control measures shall be installed in strict accordance with the *RI Soil Erosion and Sediment Control Handbook* (as amended).

- The project areas of disturbance are located under bridges and are not exposed to areas of precipitation.

## 2.6 Protect Storm Drain Inlets

RIPDES CGP - Part III.J.1.d

Storm drain inlet protection measures prevent soil and debris from entering storm drain inlets. These measures are usually temporary and are implemented before a site is disturbed. ALL stormwater inlets &/or catch basins that are operational during construction and may receive sediment-laden stormwater flow from the construction site must be protected using control measures outlined in the *Rhode Island Soil Erosion and Sediment Control Handbook* (as amended).

Possible control measures that may be used include compost filter socks, fiber rolls, gravel bag berms, or catch basin inserts. **(Please note: Hay Bale/Silt Fence protection measures DO NOT work on paved roadways.)**

If stormwater discharges from the construction site have the potential to enter storm drain inlets that then discharge to a surface water, the site owner and operator must install inlet protection practices that remove sediment from the discharge prior to entry into the storm drain inlet, and clean, or remove and replace the protection practices as sediment accumulates, as the filter becomes clogged, and/or as

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performance is compromised. Accumulated sediment adjacent to the inlet protection measures should be removed by the end of the same work day in which it is found or by the end of the following work day if removal by the same work day is not feasible.

- Silt filter bag inserts will be installed at each existing catch basin within a paved area within the limit of work prior to construction commencing. In areas where existing catch basins are located within a vegetated area, a silt filter bag and compost filter sock will be installed. Upon completion, the filter bags and compost filter sock will be removed.

### **2.7 Protect Storm Drain Outlets**

RIPDES CGP - Part III.J.1.e

Outlet protection is necessary to prevent scour or severe erosion at discharge points. Outlets often have high velocity, high volume flows, and require strong materials that will withstand the forces of stormwater. The function of these control practices are to protect the soil surface, reduce velocity, and promote infiltration. Storm drain outlet control practices also offer a last line of protection against sediment entering environmentally sensitive areas.

All stormwater outlets that may discharge sediment-laden stormwater flow from the construction site must be protected using the control practices depicted on the approved plan set and in accordance with the *Rhode Island Soil Erosion and Sediment Control Handbook* (as amended).

- There are no storm drain outfalls within the limit of work.

### **2.8 Establish Perimeter Controls and Sediment Barriers**

RIPDES CGP - Part III.J.1.f

Perimeter controls and sediment barriers shall be installed as depicted on the approved Site Plans and in accordance with the *Rhode Island Soil Erosion and Sediment Control Handbook* (as amended).

Sediment barriers and perimeter controls must be installed along those perimeter areas of the site that will receive stormwater from earth disturbing activities.

Maintenance of perimeter controls must be completed in accordance with the maintenance requirements specified in the *Rhode Island Soil Erosion and Sediment Control Handbook* (as amended).

- Compost filter tubes will be installed around the perimeter of the laydown area for Bridge 485. No earth disturbing activities exposed to precipitation are anticipated with regard to the pier cap replacements for the four bridges. A turbidity curtain will be installed within the waterbody below Bridge 485.

### **2.9 Establish Temporary Controls for the Protection of Post-Construction Stormwater Practices**

RIPDES CGP - Part III.J.1.g

This section details the measures that will be installed to protect permanent or long term stormwater treatment practices as they are installed so that they will function properly when they are brought online at the end of the construction phase.

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Include any applicable specifications from the *Rhode Island Soil Erosion and Sediment Control Handbook* (as amended), the *RIDEM RI Stormwater Design and Installation Standards Manual* (RISDISM) (as amended), including any applicable control practice maintenance requirements.

Examples of temporary control measures that can be used to protect permanent stormwater control measures include: establishing temporary sediment barriers around infiltrating practices, ensuring proper material staging areas and equipment routing (i.e. do not allow construction equipment to compact areas where infiltrating practices will be installed), and by conducting final cleaning of structural long term practices after construction is completed.

- The project areas of disturbance are located under bridges and are not exposed to areas of precipitation. No change in impervious area is anticipated therefore no post-construction BMPs are proposed.

**2.10 Temporary Sediment Trapping and Temporary Stormwater Conveyance**

RIPDES CGP - Part III.J.1.h

Temporary sediment trapping, temporary sediment basins, and/or temporary stormwater conveyance practices shall be installed as necessary, and maintained as depicted on approved plans and in accordance with the *Rhode Island Soil Erosion and Sediment Control Handbook* (as amended) and if applicable, the *RI Department of Transportation Standard Specifications for Road and Bridge Construction* (as amended).

Sediment traps, basins, and barriers are used to retain sediment on the site to protect streams, lakes, drainage systems, and adjacent property. These devices are used at the outlets of channels, diversions, and other runoff conveyance measures to allow sediment-filled water to pool and sediment to settle. These measures are often used as the last line of defense to stop sediment from leaving the site.

**2.11 Utilize Surface Outlets – Not Applicable**

RIPDES CGP - Part III.J.1.i

**2.12 Properly Use Treatment Chemicals**

RIPDES CGP - Part III.J.1.j

Chemical stabilizers, polymers, and flocculants are readily available on the market and can be easily applied to construction sites for the purposes of enhancing the control of erosion, runoff, and sedimentation. The following guidelines should be adhered to for construction sites that plan to use treatment chemicals as part of their overall erosion, runoff, and sedimentation control strategy.

The U.S. Environmental Protection Agency has conducted research into the relative toxicity of chemicals commonly used for the treatment of construction stormwater discharges. The research conducted by the EPA focused on different formulations of chitosan, a cationic compound, and both cationic and anionic polyacrylamide (PAM). In summary, the studies found significant toxicity resulting from the use of chitosan and cationic PAM in laboratory conditions, and significantly less toxicity associated with using anionic PAM. EPA's research has led to the conclusion that the use of treatment chemicals for erosion, runoff, and sedimentation control requires proper operator training and appropriate usage to avoid risk to aquatic species. In the case of cationic treatment chemicals additional safeguards may be necessary.

**Application/Installation Minimum Requirements**

If a site operator plans to use polymers, flocculants, or other treatment chemicals during construction the SESC plan must address the following:

1. Treatment chemicals shall not be applied directly to or within 100 feet of any surface water body.

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2. Use conventional erosion, runoff, and sedimentation controls prior to and after the application of treatment chemicals. Use conventional erosion, runoff, and sedimentation controls prior to chemical addition to ensure effective treatment. Chemicals may only be applied where treated stormwater is directed to a sediment control (e.g. temporary sediment basin, perimeter control) prior to discharge.
3. Sites shall be stabilized as soon as possible using conventional measures to minimize the need to use chemical treatment.
4. Select appropriate treatment chemicals. Chemicals must be selected that are appropriately suited to the types of soils likely to be exposed during construction and to the expected turbidity, pH, and flow rate of stormwater flowing into the chemical treatment system or treatment area. **Soil testing is essential. Using the wrong form of chemical treatment will result in some form of performance failure.**
5. Minimize discharge risk from stored chemicals. Store all treatment chemicals in leak-proof containers that are kept under storm-resistant cover and surrounded by secondary containment structures (e.g., spill berms, decks, spill containment pallets), or provide equivalent measures, designed and maintained to minimize the potential discharge of treatment chemicals in stormwater or by any other means (e.g., storing chemicals in covered areas or having a spill kit available on site).
6. Use chemicals in accordance with good engineering practices and specifications of the chemical provider/supplier. You must also use treatment chemicals and chemical treatment systems in accordance with good engineering practices, and with dosing specifications and sediment removal design specifications provided by the supplier of the applicable chemicals, or document specific departures from these practices or specifications and how they reflect good engineering practice.

**Treatment Chemical Application Plan**

INSERT TEXT as described below:

1. List Manufacturer's name and product name for each treatment chemical proposed for use at the site.
2. Attach a copy of applicable Material Safety Data Sheets (MSDSs) or Safety Data Sheets (SDS) for each proposed treatment chemical.
3. Provide the results of third party toxicity testing of the materials proposed for use at the site.
4. Provide a certification from the site owner and operator that all proposed treatment chemicals are the same as those used in the toxicity tests and will not be altered in any way.
5. Provide an explanation as to why conventional erosion, runoff, and sediment control measures, alone or in combination, will not be sufficient to prevent turbidity impacts and sedimentation in downstream receptors.
6. Provide a plan prepared in consultation with the chemical treatment manufacturer(s) or authorized manufacturer's representative which includes the following:
  - a. Identification of the areas of the site where treatment chemicals will be applied and the name, location, and distance to all downstream receptors that have the potential to be impacted from the discharges from the treatment areas.
  - b. List the expected start and end dates or specific phases of the project during which each treatment chemical will be applied.
  - c. Provide test results for representative soils from the site, and any recommendations from the manufacturer based on the soil tests, indicating the type of treatment chemical and the recommended application rate.
  - d. List the frequency, method, and rates of application which are designed to ensure that treatment chemical concentrations will not exceed 50% of the IC25 or NOEC toxicity values, whichever is less, for each treatment chemical proposed.

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- e. Provide the frequency of inspection and maintenance of the treatment chemical application system.
- f. List the method proposed for the collection, removal, and disposal or stabilization of settled particles to prevent resuspension.
- g. Describe the training that will be provided to all persons who will handle and use treatment chemicals at the construction site. Training must include appropriate, product-specific training and proper dosing requirements for each product.

**Treatment Chemical SESC Plan Weekly Inspection Report Documentation Requirements**

- 1. Document the type and quantity of treatment chemicals applied.
- 2. List the date, duration of discharge, and estimated discharge rate.
- 3. Provide an estimate of the volume of water treated.
- 4. Provide an estimate of the concentration of treatment chemicals in the discharge, with supporting calculations.

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**2.13 Construction Site Erosion, Runoff, and Sediment Control Measure List**

It is expected that this table will be amended as needed throughout the construction project.

Location/Station	Control Measure Description/Reference	Maintenance Requirement	Phase
Inside Catch Basins and Inlets and Between Wetland Areas and Roadway	<b>Compost Filter Socks.</b> <b>206.9901</b>	Inspection should be made after each rainfall event and additional socks should be added either on top of or in front of existing sock if excessive ponding or accumulated sediments reach the top of the sock.	Throughout duration of construction
Inside Catch Basins and Inlets	<b>Inlet Protection for Catch Basins</b> <b>209.9901</b>	Sediment shall be removed and the filter fabric restored when the sediment has accumulated to half the design depth. Removed sediment shall be deposited in a suitable area and in such a manner that it will not erode.	Throughout duration of construction
Inside Swales With Steep Slopes/High Flows Along the Outside of the Roadway	<b>Erosion Control Blankets</b> <b>L05.0505</b>	Inspection should be made after every rainfall of at least 0.5 inches. If seams are pulled apart, the ends are pulled out, or the blanket is misplaced or sagging, reinstall and add more staples.	Throughout duration of construction

## SECTION 3: CONSTRUCTION ACTIVITY POLLUTION PREVENTION

### RIPDES Construction General Permit – Part III.J.2

The purpose of construction activity pollution prevention is to prevent day to day construction activities from causing pollution.

This section describes the key pollution prevention measures that must be implemented to avoid and reduce the discharge of pollutants in stormwater. Example control measures include the proper management of waste, material handling and storage, and equipment/vehicle fueling/washing/maintenance operations.

Where applicable, include *RI Soil Erosion and Sediment Control Handbook* (as amended) or the *RI Department of Transportation Standard Specifications for Road and Bridge Construction* (as amended) specifications.

#### 3.1 Existing Data of Known Discharges from Site

RIPDES CGP - Part III.I

Are there known discharges from the project area?

Yes       No

Describe how this determination was made:

- Plans showing closed storm drain systems were confirmed, and updated where necessary, by field investigations.

If yes, list discharges and locations:

Outfall No.	Location/Station	Type	Receiving Water Body
17	599+28R	Paved Waterway	Point Judith Pond
18	599+88L	Paved Waterway	Silver Spring Cove
19	603+00 CTR	Paved Waterway	Silver Spring Cove
23	608+65L	Paved Waterway	Silver Spring Cove
24	618+87R	Pipe	Point Judith Pond
27	621+10L	Paved Waterway	Point Judith Pond

Is there existing data on the quality of the known discharges?

Yes       No

If yes, provide data:

- N/A

#### 3.2 Prohibited Discharges

RIPDES CGP - Part III.J.2.a

The following discharges are prohibited at the construction site:

- Contaminated groundwater, unless specifically authorized by the DEM. These types of discharges may only be authorized under a separate DEM RIPDES permit.
- Wastewater from washout of concrete, unless the discharge is contained and managed by appropriate controls.

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- Wastewater from washout and cleanout of stucco, paint, form release oils, curing compounds, and other construction materials.
- Fuels, oils, or other pollutants used in vehicle and equipment operation and maintenance. Proper storage and spill prevention practices must be utilized at all construction sites.
- Soaps or solvents used in vehicle and equipment washing.
- Toxic or hazardous substances from a spill or other release.

**3.3 Potential Sources of Pollution**

RIPDES CGP - Parts III.J.2 & III.J.4.h

Check All Those That Apply	Operation/ Location	Stormwater Pollutants
<input checked="" type="checkbox"/>	Clearing, grading, excavating, and unstabilized areas	Sediment; Trash/Debris
<input checked="" type="checkbox"/>	Construction Entrance	Sediment
<input checked="" type="checkbox"/>	Soil Stockpiles	Sediment
<input checked="" type="checkbox"/>	Paving operations	Sediment; Trash/Debris
<input type="checkbox"/>	Concrete washout and waste	Heavy metals; pH; Trash/Debris
<input checked="" type="checkbox"/>	Structure construction/ painting/ cleaning	Nutrients; pH; Trash/Debris; Toxic chemicals
<input checked="" type="checkbox"/>	Demolition and debris disposal	Sediment; Trash/Debris
<input type="checkbox"/>	Dewatering operations	Sediment; Nutrients
<input type="checkbox"/>	Drilling and blasting operations	Sediment; pH; Trash/Debris
<input checked="" type="checkbox"/>	Material delivery and storage	Sediment; Nutrients; Heavy metals; pH; Pesticides/Herbicides; Oil/Grease; Trash/Debris; Toxic chemicals
<input type="checkbox"/>	Material use during building process	Nutrients; heavy metals; pH; pesticides/herbicides; oil/grease; trash/debris; toxic chemicals
<input checked="" type="checkbox"/>	Solid waste/ trash/ debris	trash/debris; toxic chemicals
<input type="checkbox"/>	Hazardous waste	heavy metals; pH; pesticides/herbicides; oil/grease; toxic chemicals
<input type="checkbox"/>	Contaminated spills	Nutrients; heavy metals; pH; pesticides/herbicides; oil/grease; toxic chemicals
<input checked="" type="checkbox"/>	Sanitary/septic waste	Nutrients; pH; Bacteria/Viruses; toxic chemicals
<input checked="" type="checkbox"/>	Vehicle/equipment fueling and maintenance	Oil/Grease; Toxic chemicals
<input checked="" type="checkbox"/>	Vehicle/equipment use and storage	Oil/Grease; Toxic chemicals
<input type="checkbox"/>	Landscaping operations	Sediment; Nutrients; Trash/Debris

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<input type="checkbox"/>	Other:	
<input type="checkbox"/>	Other:	

**3.4 Minimize Off-site Tracking of Sediments**

RIPDES CGP - Part III.J.2.b

Any construction site access point must employ the control measures on the approved SESC site plans and in accordance with the *Rhode Island Soil Erosion and Sediment Control Handbook* (as amended). Construction entrances shall be used in conjunction with the stabilization of construction roads to reduce the amount of mud picked up by construction vehicles. All construction access roads shall be constructed prior to any roadway accepting construction traffic.

The site owner and operator must:

1. Restrict vehicle use to properly designated exit points.
  2. Use properly designed and constructed construction entrances at all points that exit onto paved roads so that sediment removal occurs prior to vehicle exit.
  3. When and where necessary, use additional controls to remove sediment from vehicle tires prior to exit (i.e. wheel washing racks, rumble strips, and rattle plates).
  4. Where sediment has been tracked out from the construction site onto the surface of off-site streets, other paved areas, and sidewalks, the deposited sediment must be removed by the end of the same work day in which the trackout occurs. Track-out must be removed by sweeping, shoveling, or vacuuming these surfaces, or by using other similarly effective means of sediment removal.
- Vehicle access to disturbed areas under muddy conditions will be limited. When vehicles must exit onto pavements from muddy areas, tires will be cleaned prior to vehicle entry onto pavement surfaces. Any excess sediment remaining on adjacent pavements will be immediately swept up, removed from the site, and disposed of in accordance with all applicable Federal and State regulations.

**3.5 Proper Waste Disposal**

RIPDES CGP - Part III.J.2.c

Building materials and other construction site wastes must be properly managed and disposed of to prevent the discharge of solid materials from wind and precipitation. All types of waste generated at the site shall be disposed of in a manner consistent with State Law and/or regulations.

- A waste collection area shall be designated on the site that does not receive a substantial amount of runoff from upland areas and does not drain directly to a waterbody or storm drain.
- All waste containers shall be covered to avoid contact with wind and precipitation.
- Waste collection shall be scheduled frequently enough to prevent containers from overflowing.
- All construction site wastes shall be collected, removed, and disposed of in accordance with applicable regulatory requirements and only at authorized disposal sites.

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- Equipment and containers shall be checked for leaks, corrosion, support or foundation failure, or other signs of deterioration. Those that are found to be defective shall be immediately repaired or replaced.
  
- Contractor will establish location(s) of staging area(s) in coordination with the RIDOT Resident Engineer. The Contractor will coordinate with the RIDOT Resident Engineer on the number, size and type of waste containers to be provided at the site(s) agreed to. The Contractor shall assign the daily inspection of waste containers and facilities to an employee who will be responsible for assuring proper disposal of wastes and waste materials, and the soundness of disposal containers and facilities. The Contractor's assignee shall be responsible for maintaining a log of these inspections and shall submit copies of these logs to the RIDOT Resident Engineer on a weekly basis. Copies of these inspection logs shall be included in the bound reports to be submitted for the project each month to the RIDOT Natural Resources Unit.

**3.6 Spill Prevention and Control**

RIPDES CGP - Part III.J.2.d

All chemicals and/or hazardous waste material must be stored properly and legally in covered areas, with containment systems constructed in or around the storage areas. Areas must be designated for materials delivery and storage. All areas where potential spills can occur and their accompanying drainage points must be described. The owner and operator must establish spill prevention and control measures to reduce the chance of spills, stop the source of spills, contain and clean-up spills, and dispose of materials contaminated by spills. The operator must establish and make highly visible location(s) for the storage of spill prevention and control equipment and provide training for personnel responsible for spill prevention and control on the construction site.

- Contractor will establish location(s) of staging area(s) in coordination with the RIDOT Resident Engineer. The Contractor will further coordinate with the RIDOT Resident Engineer on areas suitable for storage of hazardous materials and liquids, on the appropriate measures to be incorporated into these hazardous waste storage facilities, and on the number, size and type of spill control and containment measures to be provided at the site(s) agreed upon. The Contractor shall assign the daily inspection of these sites and stored materials located therein to an employee who will be responsible for assuring the proper equipping and operation of these sites; for monitoring the sites for any spills or other problems; and for the soundness of material containers and protective measures. The Contractor's assignee shall be responsible for maintaining a log of these inspections and shall submit copies of these logs to the RIDOT Resident Engineer on a weekly basis. Copies of these inspection logs shall be included in the bound reports to be submitted for the project each month to the RIDOT Natural Resources Unit.

**3.7 Control of Allowable Non-Stormwater Discharges**

RIPDES CGP - Parts I.B.2 & III.J.2.e

Are there allowable non-Stormwater discharges on or near the project area?

Yes       No

List of allowable non-stormwater discharge(s) and the associated control measure(s):

- Water for dust control
- Lawn watering
- Irrigation drainage

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- Firefighting activities

Are there any known or contaminated discharges, including dewatering operations, on or near the project area?

Yes       No

If yes, list the discharges and the RIPDES individual permit number(s) or RIPDES Remediation General Permit Authorization number(s) associated with these discharges.

- RIPDES Individual Permit number :
- RIPDES Remediation General Permit Authorization number:

### **3.8 Control Dewatering Practices**

RIPDES CGP - Part III.J.2.f

Site owners and operators are prohibited from discharging groundwater or accumulated stormwater that is removed from excavations, trenches, foundations, vaults, or other similar points of accumulation, unless such waters are first effectively managed by appropriate control measures.

Examples of appropriate control measures include, but are not limited to, temporary sediment basins or sediment traps, sediment socks, dewatering tanks and bags, or filtration systems (e.g. bag or sand filters) that are designed to remove sediment. Uncontaminated, non-turbid dewatering water can be discharged without being routed to a control.

At a minimum the following discharge requirements must be met for dewatering activities:

1. Do not discharge visible floating solids or foam.
2. To the extent feasible, utilize vegetated, upland areas of the site to infiltrate dewatering water before discharge. In no case will surface waters be considered part of the treatment area.
3. At all points where dewatering water is discharged, utilize velocity dissipation devices.
4. With filter backwash water, either haul it away for disposal or return it to the beginning of the treatment process.
5. Replace and clean the filter media used in dewatering devices when the pressure differential equals or exceeds the manufacturer's specifications.
6. Dewatering practices must involve the implementation of appropriate control measures as applicable (i.e. containment areas for dewatering earth materials, portable sediment tanks and bags, pumping settling basins, and pump intake protection.)

### **3.9 Establish Proper Building Material Staging Areas**

RIPDES CGP - Part III.J.2.g

All chemicals and/or hazardous waste material must be stored properly and legally in covered areas, with containment systems constructed in or around the storage areas. Areas must be designated for materials delivery and storage. Designated areas shall be approved by the site owner/engineer.

- Contractor will establish location(s) of staging area(s) in coordination with the RIDOT Resident Engineer. Expected construction materials to be stockpiled on site include topsoil, guardrail sections, pipe, haybales, silt fence, signs, sign posts, catch basin grates, and curb. Topsoil will be covered with tarpaulins and will be encircled with a ring of haybales. Other materials will be

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stored in neat order but will otherwise require no special arrangements for exposure to precipitation.

**3.10 Control Discharges from Stockpiled Sediment or Soil**

RIPDES CGP - Part III.J.2.h

Stock pile management consists of procedures and practices designed to minimize or eliminate the discharge of stockpiled material (soil, topsoil, base material, rubble) from entering drainage systems or surface waters.

Stockpile management consists of procedures and practices designed to minimize or eliminate the discharge of stockpiled material (soil, topsoil, base material, rubble) from entering drainage systems or surface waters. For any stockpiles or land clearing debris composed, in whole or in part, of sediment or soil, you must comply with the following requirements:

1. Locate piles within the designated limits of disturbance.
2. Protect from contact with stormwater (including run-on) using a temporary perimeter sediment barrier.
3. Where practicable, provide cover or appropriate temporary vegetative or structural stabilization to avoid direct contact with precipitation or to minimize the discharge of sediments.
4. NEVER hose down or sweep soil or sediment accumulated on pavement or other impervious surfaces into any stormwater conveyance, storm drain inlet, or surface water.
5. To the maximum extent practicable, contain and securely protect from wind.

**3.11 Minimize Dust**

RIPDES CGP - Part III.J.2.i

Dust control procedures and practices shall be used to suppress dust on a construction site during the construction process, as applicable. Precipitation, temperature, humidity, wind velocity and direction will determine amount and frequency of applications. However, the best method of controlling dust is to prevent dust production. This can best be accomplished by limiting the amount of bare soil exposed at one time. Dust Control measures outlined in the *Rhode Island Soil Erosion and Sediment Control Handbook* (as amended) shall be followed.

Other Dust Control methods include surface roughening, wind barriers, walls, and covers.

- Dust control for this project will utilize water. Calcium chloride will be utilized only as directed by the resident engineer. Water and calcium chloride will be applied in conformance with the provisions of RIDOT Standard Specifications Section 907 – Dust Control. Calcium chloride will only be applied at rates/locations as directed by the RIDOT Resident Engineer and will only be used where water cannot effectively control the generation of dust.

**3.12 Designate Washout Areas**

RIPDES CGP - Part III.J.2.j

At no time shall any material (concrete, paint, chemicals) be washed into storm drains, open ditches, streets, streams, wetlands, or any environmentally sensitive area. The site operator must ensure that

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construction waste is properly disposed of, to avoid exposure to precipitation, at the end of each working day.

- Contractor will establish number, location(s), and type(s) (prefabricated or constructed on-site) of concrete washout facilities in coordination with the RIDOT Resident Engineer. The Contractor shall assign the daily inspection of these facilities to an employee who will be responsible for assuring the proper use and operation; for monitoring the sites for any improper concrete washout actions, or other problems; and for the overall soundness of the facilities. The Contractor's assignee shall be responsible for maintaining a log of these inspections and shall submit copies of these logs to the RIDOT Resident Engineer on a weekly basis. Copies of these inspection logs shall be included in the bound reports to be submitted for the project each month to the RIDOT Natural Resources Unit.

**3.13 Establish Proper Equipment/Vehicle Fueling and Maintenance Practices**

RIPDES CGP - Part III.J.2.k

Vehicle fueling shall not take place within regulated wetlands or buffer zone areas, or within 50-feet of the storm drain system. Designated areas shall be depicted on the Approved Plans, or shall be approved by the site owner.

Vehicle maintenance and washing shall occur off-site, or in designated areas depicted on the Approved Plans or approved of by the site owner. Maintenance or washing areas shall not be within regulated wetlands or buffer zone areas, or within 50-feet of the storm drain system. Maintenance areas shall be clearly designated, and barriers shall be used around the perimeter of the maintenance area to prevent stormwater contamination.

Construction vehicles shall be inspected frequently for leaks. Repairs shall take place immediately. Disposal of all used oil, antifreeze, solvents and other automotive-related chemicals shall be according to applicable regulations; at no time shall any material be washed down the storm drain or in to any environmentally sensitive area.

- Contractor shall ensure all major non-emergency vehicle repair and maintenance activities are performed off-site. Contractor will establish location(s), number, and type(s) of fuel storage/dispensing facilities in coordination with the RIDOT Resident Engineer. These sites will be provided with appropriate measures for the cleanup and containment of oil/gasoline/lubricant spills. The Contractor shall assign the daily inspection of these facilities to an employee who will be responsible for assuring their proper use and operation; for monitoring the sites for any spills, adequate inventories of spill cleanup and control measures, or other problems; and for the overall soundness of the facilities. The Contractor's assignee shall be responsible for maintaining a log of these inspections and shall submit copies of these logs to the RIDOT Resident Engineer on a weekly basis. Copies of these inspection logs shall be included in the bound reports to be submitted for the project each month to the RIDOT Natural Resources Unit.

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**3.14 Construction Activity Pollution Prevention Control Measure List**

It is expected that this table will be amended as needed throughout the construction project.

Location/Station	Control Measure Description/Reference	Maintenance Requirement	Phase
Adjacent Roads	Public roads adjacent to a construction site shall be clean at the end of each day. Section 211.01.1	Street sweep if construction site sediment is visible	Throughout the duration of construction
Site Wide	Pick up of construction trash and debris	All loose trash and debris must be disposed of properly at the end of each working day	Throughout the duration of construction
Site Wide	Materials stored on-site	An effort shall be made to store only enough product required to do the job. All materials stored on-site shall be stored in a neat, orderly manner in their appropriate containers and, if possible, under a roof or other enclosure. Products shall be kept in their original containers with the original manufacturer's label. Substances shall not be mixed with one another unless recommended by the manufacturer. Whenever possible, all of a product shall be used up before disposing of the container.	Throughout the duration of construction

## **SECTION 4: CONTROL PRACTICE INSTALLATION, INSPECTION and MAINTENANCE**

### **RIPDES Construction General Permit – Part III.J.3**

#### **4.1 Installation**

##### RIPDES CGP - Part III.J.3.a

All temporary erosion, runoff, and sediment control practices should be completely installed and functioning prior to any earth disturbing activities. All stormwater controls must be installed in accordance with good engineering practices, including applicable design specifications, which may be found in manufacturer specifications and/or the *RI Soil Erosion and Sediment Control Handbook* (as amended). Any departures from such specifications must be provided, justified, and demonstrated to reflect good engineering practices.

#### **4.2 Inspections**

##### RIPDES CGP - Part III.J.3.b

*Minimum Frequency* - Each of the following areas must be inspected by or under the supervision of the owner and operator at least once every seven (7) calendar days and within twenty-four (24) hours after any storm event, which generates at least 0.25 inches of rainfall per twenty-four (24) hour period and/or after a significant amount of runoff or snowmelt:

- a. All areas that have been cleared, graded, or excavated and that have not yet completed stabilization;
- b. All stormwater erosion, runoff, and sediment control measures (including pollution prevention practices) installed at the site to comply with this permit;
- c. Construction material, unstabilized soil stockpiles, waste, borrow, or equipment storage, and maintenance areas that are covered by this permit and are exposed to precipitation;
- d. All areas where stormwater typically flows within the site, including temporary drainage ways designed to divert, convey, and/or treat stormwater;
- e. All points of discharge from the site;
- f. All locations where temporary or permanent soil stabilization measures have been implemented;
- g. All locations where vehicles enter or exit the site.

*Qualified Personnel* – The site owner and operator are responsible for designating personnel to conduct inspections and for ensuring that the personnel who are responsible for conducting the inspections are “qualified” to do so. A “qualified person” is a person knowledgeable in the principles and practices of erosion, runoff, sediment, and pollution prevention controls, who possesses the skills to assess conditions at the construction site that could impact stormwater quality, and the skills to assess the effectiveness of any stormwater controls selected and installed to meet the requirements of the permit.

*Recordkeeping Requirements* - All records of inspections, including records of maintenance and corrective actions must be maintained with the SESC Plan. Inspection records must include the date and time of the inspection, and the inspector's name, signature, and contact information.

*Reductions in Inspection Frequency* - If earth disturbing activities are suspended due to frozen conditions, inspections may be reduced to a frequency of once per month. The owner and operator must document the beginning and ending dates of these periods in the SESC Plan.

##### *General Notes*

- A separate inspection report will be prepared for each inspection.

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- The Inspection Reference Number shall be a combination of the RIPDES Construction General Permit No - consecutively numbered inspections. ex/ Inspection reference number for the 4<sup>th</sup> inspection of a project would be:  
RIR10####-4
- Each report will be signed and dated by the Inspector and must be kept onsite as required by Part III.G of the RIPDES Construction General Permit.
- Each report will be signed and dated by the Site Operator and returned to the Inspector within 24 hours of receipt.
- It is the responsibility of the site operator to maintain a copy of the SESC Plan, copies of all completed inspection reports, and amendments as part of the SESC Plan documentation at the site during construction.

Failure to make and provide documentation of inspections under this part constitutes a violation of this permit and enforcement actions under 46-12 of R.I. General Laws may result.

#### **4.3 Maintenance**

RIPDES CGP - Parts III.J.3.c & V.N

Maintenance procedures for erosion and sedimentation controls and stormwater management structures/facilities are described on the plans and in the *Rhode Island Soil Erosion and Sediment Control Handbook* (as amended).

Construction shall not commence or continue until all specified erosion and pollution controls are in place and properly installed.

Site owners and operators must ensure that all erosion, runoff, sediment, and pollution prevention controls remain in effective operating condition and are protected from activities that would reduce their effectiveness. Erosion and pollution controls must be able to prevent, under normal weather conditions, both the movement of soil materials and the intrusion of sediment-laden discharges into environmentally sensitive areas.

Erosion and pollution controls will be cleaned and maintained when directed by the site operator; after a rainstorm; and/or whenever maintenance is required for any control measure as specified in the *Rhode Island Soil Erosion and Sediment Control Handbook* (as amended) or the *RI Department of Transportation Standard Specifications for Road and Bridge Construction* (as amended).

Erosion, runoff, sediment, and pollution prevention control measures shall remain in place until all disturbed earth has been securely stabilized and accepted by the site owner. Before final removal, all accumulated sediment on the upstream side shall be removed and legally disposed of. After removal of structures, disturbed areas shall be regraded and stabilized as necessary.

**Note: It is recommended that the site operator designates a full-time, on-site contact person responsible for working with the site owner to resolve SESC Plan-related issues.**

#### **4.4 Corrective Actions**

RIPDES CGP - Part III.J.3.c.iii

If, in the opinion of the designated site inspector, corrective action is required, the inspector shall note it on the inspection report and shall inform the site operator that corrective action is necessary. The site operator must make all necessary repairs whenever maintenance of any of the control measures instituted at the site is required.

In accordance with the RIPDES Construction General Permit, the site operator shall initiate work to fix the problem immediately after its discovery, and complete such work by the close of the next work day, if the

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problem does not require significant repair or replacement, or if the problem can be corrected through routine maintenance.

When installation of a new control or a significant repair is needed, site owners and operators must ensure that the new or modified control measure is installed and made operational by no later than seven (7) calendar days from the time of discovery where feasible. If it is infeasible to complete the installation or repair within seven (7) calendar days, the reasons why it is infeasible must be documented in the SESC Plan along with the schedule for installing the control measures and making it operational as soon as practicable after the 7-day timeframe. Such documentation of these maintenance procedures and timeframes should be described in the inspection report in which the issue was first documented. If these actions result in changes to any of the control measures outlined in the SESC Plan, site owners and operators must also modify the SESC Plan accordingly within seven (7) calendar days of completing this work.

The corrective action log contained in each inspection report must be completed, signed, and dated by the site operator once all necessary repairs have been completed.

## SECTION 5: SITE PLANS

### RIPDES Construction General Permit – Part III.J.4

#### 5.1 *SESC Plan Site Maps*

**The attached SESC Plan Site Maps contain the following elements:**

- Title and date of plan set(s)
- Map scale should have no less detail than 1" = 100'
- A minimum contour interval of 2' must be utilized.
- Total project area/area of development and area of soil disturbance
- Proposed limits of disturbance
- Construction site property lines
- Pre- and post-development drainage patterns
- Location and name of the receiving waters and/or separate storm sewer system and the ultimate receiving waters, including wetlands, that may be impacted during construction
- Locations where stormwater discharges to a surface water or wetland
- Location of environmentally sensitive features/areas that will be preserved and/or protected (e.g. endangered species habitats, historic sites, natural heritage areas, Qualified Pervious Areas (QPAs), etc.)
- Location and field verified boundaries of resource protection areas such as freshwater and coastal wetlands, lakes, ponds, coastal shoreline features and required setbacks (e.g. buffers, water supply wells, septic systems)
- Boundaries of existing predominant vegetation
- Location of all existing and proposed impervious surfaces/structures
- Direction(s) of stormwater flow
- Approximate slopes anticipated after the completion of major grading activities
- Location of existing and proposed conveyance systems such as grass channels and swales
- Locations of potential sources of pollution that may reasonably be expected to affect the quality of stormwater discharges from the site (i.e. exposed, unstabilized soil stockpiles and construction material and waste collection areas)
- Locations of all non-structural control measures, which will address all potential sources of pollution that may reasonably be expected to affect the quality of stormwater discharges from the site (i.e. fueling areas, material storage areas, equipment storage areas, designated concrete washout areas, solid and hazardous waste collection areas, soil stockpiles, etc.)
- Locations and timing of stabilization practices including passed clearing and grubbing based on scheduled activities
- Locations of construction staging and material stockpiling areas
- The location of all erosion, runoff, sediment, and pollution prevention control measures, including the location of temporary or permanent sediment basins, diversions, or other water quality, peak discharge, and volume control structures

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- Areas within the project limits, which are unsuitable for material storage, equipment storage, designated concrete washout collection, dumpsters, stockpiles, fueling locations, etc. (i.e. locations where these activities shall not occur, and recommendations of where they may occur)
- Locations of storm drain inlets and outfalls that need to be protected
- Locations of all graveled access entrance and exit drives and parking areas to reduce the tracking of sediment onto public and private roads
- The location of spill prevention and response equipment
- The location of all proposed post-construction best management practices, including locations of infiltrating practices and prohibited traffic areas

## SECTION 6: AMENDMENTS

### RIPDES Construction General Permit – Part III.F

This SESC Plan is intended to be a working document. It is expected that amendments will be required throughout the active construction phase of the project. **Even if practices are installed on a site according to the approved plan, the site is only in compliance when erosion, runoff, and sedimentation are effectively controlled throughout the entire site for the entire duration of the project.**

The SESC Plan shall be amended within seven (7) days whenever there is a change in design, construction, operation, maintenance or other procedure which has a significant effect on the potential for the discharge of pollutants, or if the SESC Plan proves to be ineffective in achieving its objectives (i.e. the selected control measures are not effective in controlling erosion or sedimentation).

In addition, the SESC Plan shall be amended to identify any new operator that will implement a component of the SESC Plan.

All revisions must be recorded in the Record of Amendments Log Sheet, which is contained in Attachment G of this SESC Plan, and dated red-lined drawings and/or a detailed written description must be appended to the SESC Plan. Inspection Forms must be revised to reflect all amendments. Update the Revision Date and the Version # in the footer of the Report to reflect amendments made.

All SESC Plan Amendments, except minor non-technical revisions, must be approved by the site owner and operator. Any amendments to control measures that involve the practice of engineering must be reviewed, signed, and stamped by a Professional Engineer registered in the State of RI.

The amended SESC plan must be kept on file at the site while construction is ongoing and any modifications must be documented.

Attach a copy of the Amendment Log.

- REFERENCE ATTACHMENT G

## **SECTION 7: RECORDKEEPING**

### **RIPDES Construction General Permit – Parts III.D, III.G, III.J.3.b.iii, & V.O**

It is the site owner and site operator's responsibility to have the following documents available at the construction site and immediately available for RIDEM review upon request:

- A copy of the fully signed and dated SESC Plan, which includes:
  - A copy of the General Location Map  
INCLUDED AS ATTACHMENT A
  - A copy of all SESC Plan Site Maps  
INCLUDED AS ATTACHMENT B
  - A copy of the RIPDES Construction General Permit  
INCLUDED AS ATTACHMENT C
  - A copy of any regulatory permits (RIDEM Freshwater Wetlands Permit, CRMC Assent, RIDEM Water Quality Certification, RIDEM Groundwater Discharge Permit, RIDEM RIPDES Construction General Permit authorization letter, etc.)  
INCLUDED AS ATTACHMENT D
  - The signed and certified NOI form or permit application form  
INCLUDED AS ATTACHMENT E
  - Completed Inspection Reports w/Completed Corrective Action Logs  
INCLUDED AS ATTACHMENT F
  - SESC Plan Amendment Log  
INCLUDED AS ATTACHMENT G

## SECTION 8: PARTY CERTIFICATIONS

### RIPDES Construction General Permit – Part V.G

All parties working at the project site are required to comply with the Soil Erosion and Sediment Control Plan (SESC Plan) for any work that is performed on-site. The site owner, site operator, contractors and sub-contractors are encouraged to advise all employees working on this project of the requirements of the SESC Plan. A copy of the SESC Plan is available for your review at the following location: \_\_\_\_\_, or may be obtained by contacting the site owner or site operator.

The site owner and site operator and each subcontractor engaged in activities at the construction site that could impact stormwater must be identified and sign the following certification statement.

***I acknowledge that I have read and understand the terms and conditions of the Soil Erosion and Sediment Control (SESC) Plan for the above designated project and agree to follow the control measures described in the SESC Plan.***

Site Owner:

Insert Company or Organization Name

Insert Name & Title

Insert Address

Insert City, State, Zip Code

Insert Telephone Number, Insert Fax/Email

\_\_\_\_\_  
signature/date

Site Operator:

Insert Company or Organization Name

Insert Name & Title

Insert Address

Insert City, State, Zip Code

Insert Telephone Number, Insert Fax/Email

\_\_\_\_\_  
signature/date

Designated Site Inspector:

Insert Company or Organization Name

Insert Name & Title

Insert Address

Insert City, State, Zip Code

Insert Telephone Number, Insert Fax/Email

\_\_\_\_\_  
signature/date

SubContractor/SESC Plan Contact:

Insert Company or Organization Name

Insert Name & Title

Insert Address

Insert City, State, Zip Code

Insert Telephone Number, Insert Fax/Email

\_\_\_\_\_  
signature/date

*Insert more contact/signature lines as necessary*

## **ATTACHMENTS**

**Attachment A - General Location Map**

**Attachment B - SESC Plan Site Maps**

**Attachment C - Copy of RIPDES Construction General Permit**

**Attachment D - Copy of Regulatory Permits**

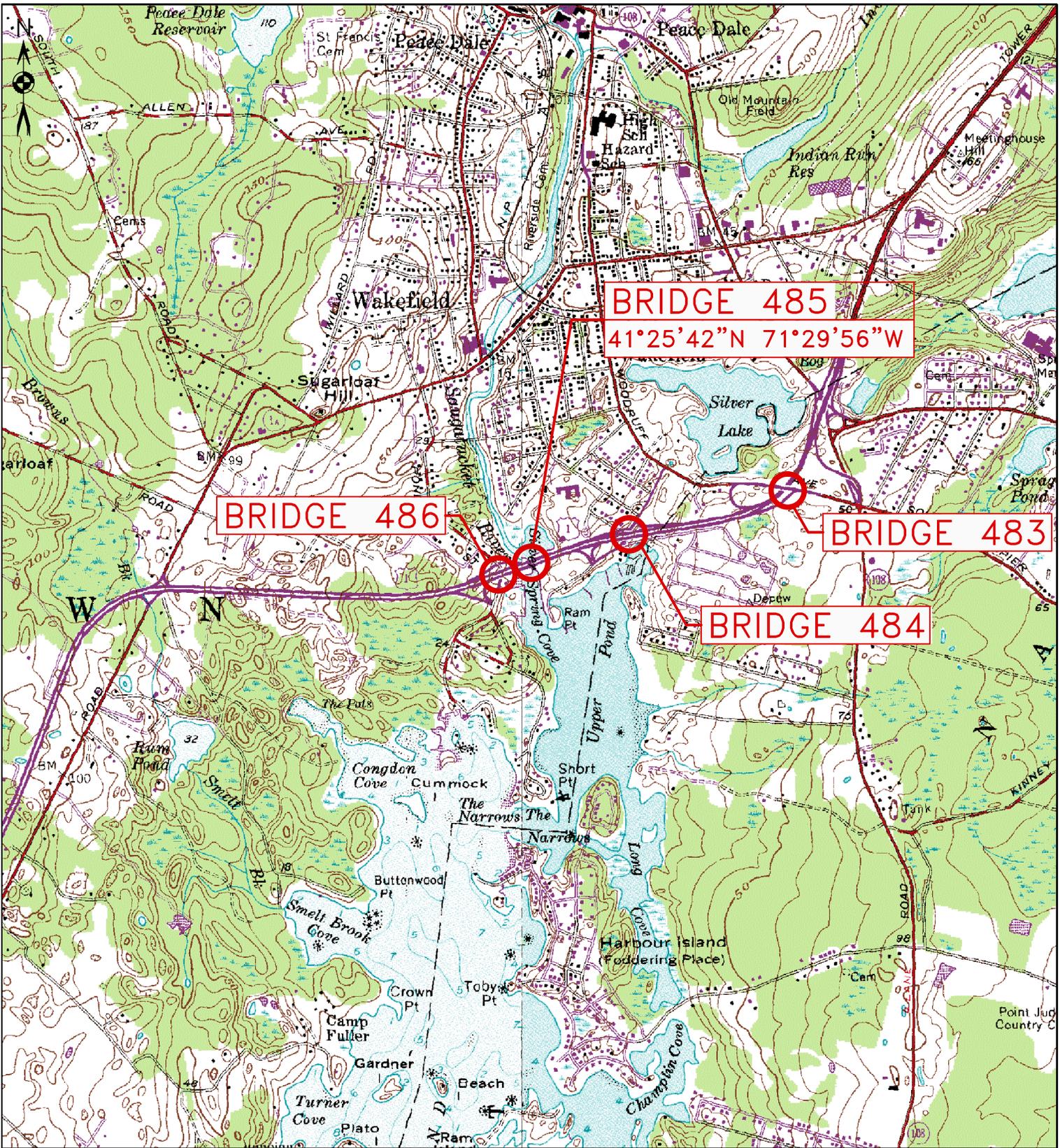
**Attachment E - Copy of RIPDES NOI**

**Attachment F - Inspection Reports and Corrective Action Log**

**Attachment G - Amendment Log**

**SESC APPENDIX A**  
GENERAL LOCATION MAP





F:\Projects\2005\2520\2520.032 - Br 483-486 Repairs\Environmental\Figure-01\_USGS.dwg

## USGS LOCUS MAP

BRIDGE NO's 483, 484, 485 AND 486 (US ROUTE 1)

SOUTH KINGSTOWN & NARRAGANSETT, RI

PREPARED BY:

**GREEN INTERNATIONAL AFFILIATES, INC.**  
 CIVIL AND STRUCTURAL ENGINEERS  
 239 LITTLETON RD, WESTFORD, MA (978) 923-0400

PREPARED FOR:

Rhode Island Department of **Transportation**

SCALE IN FEET



ELEVATIONS IN METERS

ADDENDUM NO. 1

NOTE: DATA TAKEN FROM RIGIS

SCALE: AS NOTED

PROJECT NO. 02520.032

DATE: 07/12/2013

DRAWN BY: DS

REVISED:

CHECKED BY: DS

**FIGURE**  
1



**SESC APPENDIX B**  
SESC PLAN SITE MAPS



**INDEX**

SHEET NO.	DESCRIPTION	SWPPP SHEET NO.
1	COVER SHEET	1
3	STANDARD NOTES - 1	2
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5	JOB SPECIFIC NOTES 1	4
6	JOB SPECIFIC 2 AND QUANTITIES	5
13	GENERAL PLAN - BRIDGE NO. 483	6
21	GENERAL PLAN - BRIDGE NO. 484	7
28	GENERAL PLAN - BRIDGE NO. 485	8
29	CHANNEL SECTIONS - BRIDGE NO. 485	9
38	GENERAL PLAN - BRIDGE NO. 486	10
36	POTENTIAL STOCKPILE & LAYDOWN AREA 1	11
37	POTENTIAL STOCKPILE & LAYDOWN AREA 2	12
46	MISCELLANEOUS DETAILS 3	13

STATE OF RHODE ISLAND

SESC SHEET 1 OF 13

FED. ROAD DIV. NO.	STATE	FEDERAL AID PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
1	RI	BHO-0483(001)	2015	1	60



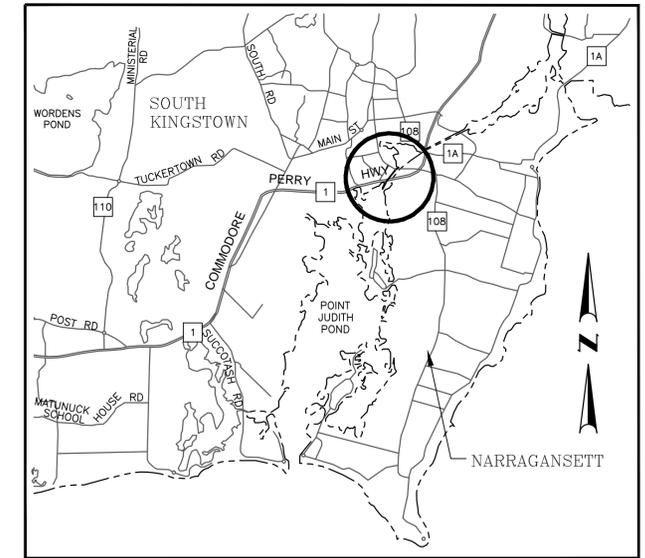
DEPARTMENT OF TRANSPORTATION

BRIDGE NOs. 483-486 PIER CAP REPLACEMENT AND MISCELLANEOUS BRIDGE REPAIRS

US ROUTE 1

SOUTH KINGSTOWN AND NARRAGANSETT  
COUNTY OF WASHINGTON

R.I. CONTRACT NO. 2015-CB-028 F.A. PROJECT NO. BHO-0483(001)



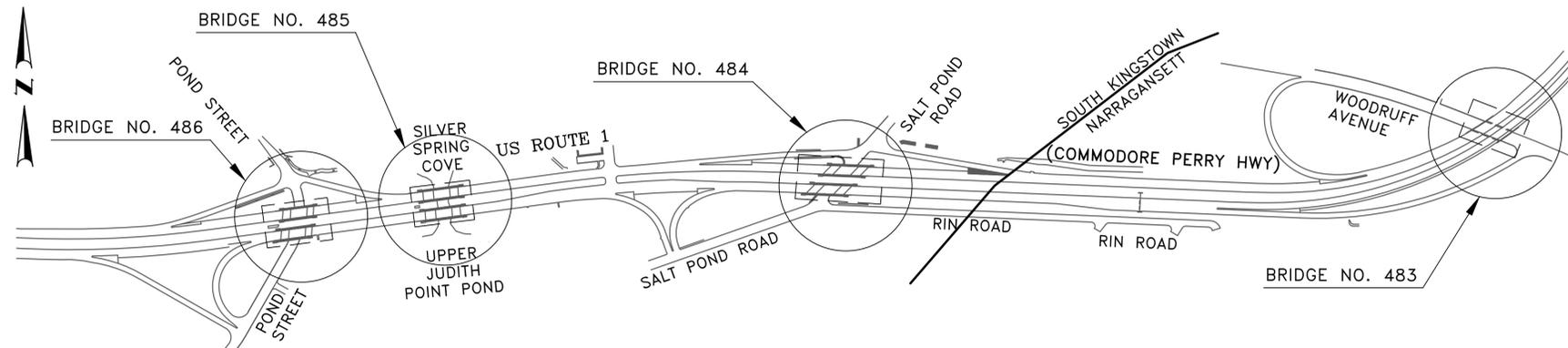
LOCATION MAP  
NOT TO SCALE

DESIGN DESIGNATION

AADT	16,500V.P.D.
D	51%
K	8%
T	2.4%
DDHV	689
DHV	1320
DESIGN SPEED	50 M.P.H.

HURRICANE EVACUATION ROUTE

This project includes work on a designated Hurricane Evacuation and Diversionsary Route as follows:  
RI Route 1 (Commodore Perry Highway)  
Refer to General Note 6, Sheet 5.



LAYOUT PLAN  
SCALE: 1"=300'

SCALES OF DRAWINGS

AS NOTED  
BASE OF LEVELS  
N/A

R.I. STANDARD SPECIFICATIONS AND STANDARD DETAILS  
SPECIFICATIONS TO GOVERN THIS PROJECT ARE THE R.I. STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, AMENDED AUGUST 2013, WITH ALL REVISIONS AND THE STATE AND FEDERAL SPECIAL PROVISIONS INCLUDED IN THE CONTRACT DOCUMENTS. STANDARD DETAILS FOR THIS PROJECT ARE R.I. STANDARD DETAILS, 1998 EDITION, WITH ALL REVISIONS.

R.I. DEPARTMENT OF TRANSPORTATION	
APPROVED	
DEPUTY CHIEF ENGINEER	DATE
APPROVED	
CHIEF ENGINEER	DATE
APPROVED	
DIRECTOR	DATE
DEPARTMENT OF TRANSPORTATION FEDERAL HIGHWAY ADMINISTRATION	
APPROVED	
DIVISION ADMINISTRATOR	DATE

Contract Number 2015-CB-028

Number of Sheet 1

Total Sheets 60





FED. ROAD DIV. NO.	STATE	FEDERAL AID PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEET
1	R.I.	BHO-0483(001)	2015	3	60

**GENERAL NOTES:**

- ANY DAMAGE TO EXISTING PAVEMENT, BRIDGES, CONDUIT, SIDEWALK, FENCES, ETC., CAUSED BY THE CONTRACTOR SHALL BE REPAIRED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE STATE.
- THE CONTRACTOR SHALL PLACE ALL EQUIPMENT AND MATERIAL AS FAR AWAY AS POSSIBLE FROM THE EDGE OF THE TRAVEL LANE SO AS NOT TO CAUSE A SAFETY HAZARD, IN ACCORDANCE WITH SECTION 106.06 OF THE R.I.D.O.T. STANDARD SPECIFICATION, LATEST EDITION.
- IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE THAT THE EXISTING CONDITIONS ARE NOT OBLITERATED BEFORE CONTROL POINTS ARE LOCATED AND CONSTRUCTION LAYOUT IS ESTABLISHED. THE CONSTRUCTION LAYOUT SHALL BE PROVIDED IN SUFFICIENT DETAIL, THEREBY ENABLING HIM TO CONSTRUCT THE PROJECT IN CONFORMITY WITH THE PLANS AND SPECIFICATIONS. SURVEY WILL BE PROVIDED BY THE CONTRACTOR. THE RESIDENT ENGINEER WILL NOT AUTHORIZE CONSTRUCTION ACTIVITIES TO BEGIN UNTIL HE IS SATISFIED THAT ALL GROUND CONTROL HAS BEEN ESTABLISHED, TIED DOWN, AND DULY RECORDED IN STANDARD FIELD BOOKS.
- ALL R.I. STD. 9.9.0 CONSTRUCTION ACCESS ROADS SHALL BE CONSTRUCTED PRIOR TO ANY ROADWAY ACCEPTING CONSTRUCTION TRAFFIC.
- THE FREQUENCY AND APPLICATION RATES FOR THE DUST CONTROL ITEMS WILL BE AS DIRECTED BY THE ENGINEER.
- ALL SIDEWALK AND DRIVEWAYS DESIGNATED FOR REPLACEMENT SHALL BE CUT AND MATCHED AT LOCATIONS SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER.
- ASPHALT EMULSION TACK COAT SHALL BE PLACED PRIOR TO PAVEMENT PLACEMENT ON THE CONCRETE BASE OR COLD PLANED PAVEMENT, AND ON ANY NEW COURSE WHICH HAS BEEN OPEN TO TRAFFIC, OR ANY NEW COURSE WHICH HAS BEEN EXPOSED FOR MORE THAN 3 DAYS, AND/OR AS DIRECTED BY THE ENGINEER. IT SHALL ALSO BE APPLIED TO VERTICAL PAVEMENT FACES BETWEEN ADJOINING PAVEMENT SECTIONS. ALL APPLICATIONS ON BOTH HORIZONTAL AND VERTICAL SURFACES SHALL BE PAID FOR UNDER THE CONTRACT UNIT BID PRICE FOR CODE 403.0300 "ASPHALT EMULSION TACK COAT."
- THE LIMITS OF CLEARING AND SURFACE DISTURBANCE MUST BE STRICTLY ADHERED TO IN ALL AREAS. IN ADDITION TO THOSE AREAS SPECIFICALLY DESIGNATED ON THE PLANS, THE CONTRACTOR WILL BE RESPONSIBLE FOR PROVIDING AND PLACING, AT HIS OWN EXPENSE, PLANTABLE SOIL AND SEED IN AREAS WHICH ARE OUTSIDE OF THE PROJECT'S AREAS OF DISTURBANCE AND WHICH ARE IMPACTED BY CONSTRUCTION OPERATIONS INCLUDING THOSE AREAS WHERE VEHICLES, EQUIPMENT AND MATERIALS ARE STORED WITH THE PERMISSION OF THE ENGINEER.
- UNDER NO CIRCUMSTANCE WILL THE CONTRACTOR BE ALLOWED TO STOCKPILE REMOVED PAVEMENT MATERIALS WITHIN THE PROJECT LIMITS.
- CLEANING AND SWEEPING OF PAVEMENT WILL INCLUDE REMOVAL OF ALL PAVEMENT DEBRIS PRIOR TO THE PLACEMENT OF EACH BITUMINOUS PAVEMENT LIFT. ALL CLEANING AND SWEEPING SHALL BE DONE TO THE SATISFACTION OF THE ENGINEER.
- PRIOR TO INSTALLATION, ALL SIGNS, MOUNTINGS AND LOCATIONS SHALL BE APPROVED OR MODIFIED BY THE ENGINEER.
- THE COORDINATE SYSTEM, IF SHOWN, IS THE RHODE ISLAND STATE PLANE COORDINATE SYSTEM.
- PAVEMENT OPERATIONS FOR CURBED SECTIONS: IN AREAS WHERE CURBING IS SET TO FINISH LINE AND GRADE, THE CONTRACTOR WILL NOT BE REQUIRED TO UTILIZE THE SENSOR AND SKY-TYPE DEVICE FOR AUTOMATIC GRADE CONTROL, BUT WILL BE ALLOWED TO MANUALLY ADJUST THE BITUMINOUS PAVER FOR CONTROLLING GRADE.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING ALL ROADWAYS FREE OF DEBRIS RESULTING FROM THEIR CONSTRUCTION OPERATIONS. ALL DEBRIS SHALL BE REMOVED TO THE SATISFACTION OF THE ENGINEER AT NO ADDITIONAL COST TO THE STATE.
- NO FUEL STORAGE, VEHICLE REFUELING, OR EQUIPMENT STORAGE SHALL TAKE PLACE IN DESIGNATED WETLANDS, NOR WITHIN 100' OF ANY WATER BODY. THIS REQUIREMENT SHALL NOT SUPERSEDE ANY FEDERAL, STATE OR LOCAL LAW, ORDINANCE, RULE OR REGULATION THAT APPLIES TO THE SAME, UNLESS THIS REQUIREMENT IS MORE STRINGENT THAN SAID LAW, ORDINANCE, RULE OR REGULATION.
- THE CONTRACTOR SHALL BE RESPONSIBLE TO ENSURE THAT AT THE END OF FINAL PAVING OPERATIONS, FLOW TO EXISTING DRAINAGE STRUCTURES HAS BEEN REESTABLISHED AND THAT NO ISOLATED DEPRESSIONS REMAIN. THERE SHALL BE NO SEPARATE PAYMENT FOR THIS PROVISION; IT SHALL BE CONSIDERED INCIDENTAL TO PAVING AND COLD PLANING OPERATIONS.
- ALL EMBANKMENTS SHALL BE PLACED IN HORIZONTAL LAYERS NOT EXCEEDING 12" (AFTER COMPACTION) AND SHALL BE COMPACTED AS SPECIFIED BEFORE THE NEXT LAYER IS PLACED. ALSO, EMBANKMENT CONSTRUCTION SHALL CONFORM TO SECTION 202.03.2 OF THE R.I.D.O.T. STANDARD SPECIFICATIONS, LATEST EDITION.
- IF THIS PROJECT IS ON A HURRICANE EVACUATION AND DIVERSIONARY ROUTE, AS DESIGNATED ON THE COVERSHEET, THE CONTRACTOR IS ADVISED THAT UPON 12 (TWELVE) HOURS NOTICE THE ROADWAY SHALL BE OPEN TO EVACUEES AND EMERGENCY PERSONNEL. ANY EXTRA WORK NECESSARY TO COMPLY WITH THIS REQUIREMENT WILL BE REIMBURSED UNDER FORCE ACCOUNT PROCEDURES.
- THE CONTRACTOR SHALL READ, BECOME FAMILIAR WITH, AND ADHERE TO ALL OF THE PROVISIONS, CONDITIONS, AND STIPULATIONS STATED IN THE ENVIRONMENTAL APPROVALS ISSUED FOR THE PROJECT FROM THE DEPARTMENT OF ENVIRONMENTAL MANAGEMENT (RIDEM), AND/OR THE ARMY CORPS OF ENGINEERS (ACOE), AND/OR THE COASTAL RESOURCES MANAGEMENT COUNCIL (CRMC). COPIES OF EACH OF THESE PERMITS ARE INCLUDED IN THE CS PAGES OF THE CONTRACT DOCUMENTS. ALL COSTS ASSOCIATED WITH THESE CONDITIONS SHALL BE CONSIDERED INCIDENTAL TO THE CONSTRUCTION AND INCLUDED WITH THE COST FOR THE ASSOCIATED BID ITEM(S).
- FOR ALL PROJECTS INVOLVING KNOWN SITE REMEDIATION ISSUES, THE CONTRACTOR SHALL READ, BECOME FAMILIAR WITH, AND ADHERE TO ALL OF THE CONSTRUCTION RELATED PROVISIONS, CONDITIONS, AND STIPULATIONS OF ANY REMEDIAL PLANS DEVELOPED FOR THE PROJECT. COPIES OF THESE DOCUMENTS ARE INCLUDED IN THE CS PAGES OF THE CONTRACT DOCUMENTS. ALL COSTS ASSOCIATED WITH COMPLIANCE WITH THESE DOCUMENTS SHALL BE CONSIDERED INCIDENTAL TO THE CONSTRUCTION AND INCLUDED WITH THE COST FOR THE ASSOCIATED BID ITEM(S).
- NO UNPROTECTED CONSTRUCTED FEATURE MAY PROJECT MORE THAN 4 INCHES ABOVE THE FINISHED GRADE OF A TRAVERSABLE SLOPE IN A CLEAR ZONE, e.g. HEADWALL, DRAINAGE INLET, ETC.
- THE REMAINING SECTION OR STUB OF A BREAKAWAY BASE MAY NOT PROJECT MORE THAN 4 INCHES ABOVE THE FINISHED GRADE OF A TRAVERSABLE SLOPE IN A CLEAR ZONE, e.g. SIGN POSTS, LIGHT POLES, FIRE HYDRANTS, ETC.

**DRAINAGE AND EROSION CONTROL NOTES:**

- FOR ALL PROJECTS WITH AT LEAST ONE(1) ACRE OF SOIL DISTURBANCE. R.I.D.O.T. IS REQUIRED TO DEVELOP AND ENFORCE A SITE SPECIFIC STORM WATER POLLUTION PREVENTION PLAN (SWPPP) IN ORDER TO REMAIN IN COMPLIANCE WITH THE RIDES GENERAL PERMIT FOR STORMWATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITIES. THE CONTRACTOR SHALL READ, BECOME FAMILIAR WITH, AND ADHERE TO ALL OF THE PROVISIONS, CONDITIONS, AND STIPULATIONS OF THE GENERAL PERMIT AND THE SITE SPECIFIC SWPPP FOR THIS PROJECT. COPIES OF THESE DOCUMENTS ARE INCLUDED IN THE CS PAGES OF THE CONTRACT DOCUMENTS. ALL COSTS ASSOCIATED WITH ADHERENCE TO THE SWPPP SHALL BE CONSIDERED INCIDENTAL TO THE CONSTRUCTION AND INCLUDED WITH THE COST FOR THE ASSOCIATED BID ITEM(S).
- NO UNDISTURBED AREAS SHALL BE CLEARED OF EXISTING VEGETATION AFTER OCTOBER 15 OF ANY CALENDAR YEAR OR DURING ANY PERIOD OF FULL OR LIMITED WINTER SHUTDOWN. ALL DISTURBED SOILS EXPOSED PRIOR TO OCTOBER 15 OF ANY CALENDAR YEAR SHALL BE SEEDED OR PROTECTED BY THAT DATE. ANY SUCH AREAS THAT DO NOT HAVE ADEQUATE VEGETATIVE STABILIZATION, AS DETERMINED BY THE RESIDENT ENGINEER OR ENVIRONMENTAL INSPECTOR, BY NOVEMBER 15 OF ANY CALENDAR YEAR, MUST BE STABILIZED THROUGH THE USE OF EROSION CONTROL MATTING OR HAY MULCH, IN ACCORDANCE WITH SPECIFICATIONS CONTAINED WITHIN THE R.I. SOIL EROSION AND SEDIMENT CONTROL HANDBOOK. IF WORK CONTINUES WITHIN ANY OF THESE AREAS DURING THE PERIOD FROM OCTOBER 15 THROUGH APRIL 15, CARE MUST BE TAKEN TO ENSURE THAT ONLY THE AREA REQUIRED FOR THAT DAY'S WORK IS EXPOSED, AND ALL ERODIBLE SOIL MUST BE RESTABILIZED WITHIN 5 WORKING DAYS. ANY WORK TO CORRECT PROBLEMS RESULTING FROM FAILURE TO COMPLY WITH THIS PROVISION SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. THERE WILL BE NO SEPARATE PAYMENT FOR THIS PROVISION, IT SHALL BE CONSIDERED INCIDENTAL TO CONSTRUCTION OPERATIONS. STABILIZATION OF ONE FORM OR ANOTHER AS DESCRIBED ABOVE SHALL BE ACHIEVED WITHIN 2 WEEKS OF FINAL GRADING.
- STOCKPILES OF MATERIAL SHALL NOT BE LOCATED WITHIN REGULATED WETLANDS OR BUFFER ZONE AREAS. THEY SHALL HAVE SIDE SLOPES NO GREATER THAN 30% AND STOCKPILES OF ERODABLE MATERIAL SHALL ALSO BE SEEDED AND RINGED WITH R.I. STD. 9.1.0 TO STABILIZE.
- IF THE PLANS INCLUDE SPECIFIC AREAS FOR PLACEMENT OF CONSTRUCTION DEWATERING BASINS AND/OR EQUIPMENT AND MATERIALS STORAGE AND STOCKPILING, AND IF THE CONTRACTOR ELECTS TO UTILIZE ANY OTHER AREAS FOR THESE PURPOSES, THIS SHALL BE APPROVED BY THE ENGINEER ONLY AFTER OBTAINING ANY NECESSARY PERMITS AND/OR PERMIT MODIFICATIONS FROM THE APPROPRIATE REGULATORY AUTHORITY(IES). ANY PERMITTING REQUIREMENTS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL BE ACCOMPLISHED AT NO COST TO THE STATE. THE ENGINEER WILL COORDINATE SUBMISSION OF ANY REQUIRED PERMIT APPLICATION MATERIALS WITH THE R.I.D.O.T. OFFICE OF ENVIRONMENTAL PROGRAMS.
- JUTE MESH SHALL BE USED TO STABILIZE PLANTABLE SOIL AND/OR LOAM IN ALL DITCHES, ON ALL SLOPES ADJACENT TO WETLANDS AND WETLAND PERIMETERS, AND ON ALL SLOPES WITHIN WATER QUALITY BASINS. JUTE MESH IN DITCHES SHALL EXTEND TO AN ELEVATION 2 FEET ABOVE THE BOTTOM OF THE DITCH.
- SEEDING ON ALL SLOPES 3 TO 1 OR STEEPER SHALL CONSIST OF THE FOLLOWING APPLICATIONS UNLESS CHANGED IN THE CONTRACT.
  - SEEDING TYPE I.
  - ADHESIVE MULCH STABILIZER
- UNVEGETATED SLOPES SHALL NOT BE UNATTENDED OR EXPOSED FOR PERIODS IN EXCESS OF 2 WEEKS OR THROUGH THE INACTIVE WINTER SEASON.
- PRIOR TO DRAINAGE AND UTILITY CONSTRUCTION, THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING THE LOCATION (HORIZONTAL AND VERTICAL) OF ALL EXISTING PIPES AND/OR STRUCTURES WHICH ARE TO BE CONNECTED. ANY VARIATION FOUND FROM THE PLANS MUST BE BROUGHT TO THE ENGINEER'S ATTENTION PRIOR TO DRAINAGE AND UTILITY CONSTRUCTION. WORK CAN COMMENCE ONLY UPON THE ENGINEER'S AUTHORIZATION.
- ALL DRAINAGE AND UTILITY STRUCTURES WITHIN THE PAVED ROADWAY SHALL BE ADJUSTED TO GRADE WITH THE SURROUNDING PAVEMENT PRIOR TO THE WINTER SHUTDOWN.
- DURING CONSTRUCTION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING DRAINAGE AND RUNOFF FLOW DURING STORMS AND PERIODS OF RAINFALL THROUGHOUT THE WORK AREA.
- CATCH BASIN RIM GRADES NOTED ON PLANS ARE DEPRESSED 0.1' LOWER THAN THE GUTTER GRADE. RIM ELEVATIONS SHOWN ARE FINAL GRADES. THE CONTRACTOR SHALL PLACE FRAMES AND GRATES 0.1' BELOW THE GRADE CONSTRUCTED IN THIS CONTRACT OR AS DIRECTED BY THE ENGINEER.
- PROVISIONS FOR CLEARING TO ACCESS OUTFALLS DURING THE CLEANING AND FLUSHING OF THE CLOSED DRAINAGE SYSTEM SHALL BE KEPT TO A MINIMUM.
  - ANY VEGETATIVE CLEARING SHALL BE LIMITED TO BRUSH AND TREES LESS THAN 3" DIAMETER.
  - NO HEAVY EQUIPMENT MAY ENCROACH UPON VEGETATED PERIMETER OR RIVERBANK WETLANDS AS WELL AS BIOLOGICAL WETLANDS.
- THE CONTRACTOR SHALL INSTALL ALL EROSION CONTROL DEVICES FOR OUTLET PROTECTION PRIOR TO CLEANING AND FLUSHING STORM WATER DRAINAGE. EROSION CONTROL DEVICES SHALL REMAIN IN PLACE UNTIL ALL FLUSHED SEDIMENTS ARE REMOVED. AT ALL OUTFALL LOCATIONS WHERE PIPES ARE TO BE CLEANED AND FLUSHED, OUTLET PROTECTION (R.I. STD. 9.1.0 OR 9.3.0) SHALL BE INSTALLED TO TRAP SEDIMENTS. THESE SEDIMENTS SHALL THEN BE REMOVED AND DISPOSED OF LEGALLY BEFORE THE OUTLET PROTECTION DEVICES ARE REMOVED. IF OUTLET PROTECTION AT THE OUTFALL IS NOT FEASIBLE, THEN THE OUTLET PIPE OF THE LAST DRAINAGE STRUCTURE TO BE CLEANED SHALL BE PLUGGED TO CAPTURE ALL MATERIALS FLUSHED FROM PIPES. AFTER THE MATERIALS ARE REMOVED FROM THE DRAINAGE STRUCTURE, THE OUTLET SHALL BE UNPLUGGED TO RESUME NORMAL FUNCTIONING.
- R.I. STD. 9.8.0 BALED HAY INLET PROTECTION SHALL BE INSTALLED AT ALL CATCH BASINS AND INLETS WHENEVER SUBBASE IS EXPOSED, AND SHALL REMAIN IN PLACE UNTIL THE ABUTTING GROUND SURFACES ARE STABILIZED.
- WHERE BALED HAY INLET PROTECTION AND SILT FENCES ARE USED AT CATCH BASINS, THEY SHALL BE REMOVED AT THE END OF THE PROJECT OR AS DIRECTED BY THE ENGINEER IN ORDER TO PREVENT CLOGGING OF THE INLET.

**DRAINAGE AND EROSION CONTROL NOTES (CONTINUED):**

- DETENTION AND RETENTION BASINS MAY BE ROUGH GRADED AND STABILIZED WITH VEGETATION AND/OR OTHER EROSION CONTROL MEASURES AS REQUIRED BY THE ENGINEER PRIOR TO USE AS TEMPORARY SEDIMENTATION BASINS DURING PROJECT CONSTRUCTION. FINAL BASIN CONSTRUCTION SHALL NOT COMMENCE UNTIL ALL SOURCES OF SEDIMENT HAVE BEEN ELIMINATED. FINAL ROADSIDE VEGETATION IS ESTABLISHED AND USE OF TEMPORARY BASINS IS NO LONGER REQUIRED AS DIRECTED BY THE ENGINEER. ANY ISSUES RELATING TO EROSION AND/OR SEDIMENT TRANSPORT INTO WETLAND AREAS RESULTING FROM SUCH USE OF SEDIMENTATION BASINS DURING CONSTRUCTION SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. ANY CORRECTIVE ACTION REQUIRED TO RESOLVE SUCH ISSUES SHALL BE COMPLETED BY THE CONTRACTOR.
- THE TOE OF ANY FILL SLOPE IS TO REMAIN AT LEAST 1' INSIDE OF ALL EROSION CONTROLS. UNDER NO CIRCUMSTANCES SHALL THE CONTRACTOR COVER ANY PORTION OF THE EROSION CONTROL MEASURES WITH MATERIAL. ANY MATERIAL THAT IS PLACED ON ANY EROSION CONTROLS BY THE CONTRACTOR, OR ANY AGENT OF THE CONTRACTOR, SHALL BE IMMEDIATELY REMOVED BY THE CONTRACTOR, AND ANY NECESSARY REPAIRS TO THE EROSION CONTROLS ACCOMPLISHED.
- PRIOR TO COMMENCING CONSTRUCTION ACTIVITIES, EROSION AND SEDIMENTATION CONTROLS SHALL BE INSTALLED AT THOSE AREAS INDICATED ON THE PLANS. CLEARING MAY OCCUR PRIOR TO INSTALLATION OF SUCH CONTROLS, HOWEVER NO GRUBBING, GRADING, FILLING, OR OTHER SOIL DISTURBANCE SHALL OCCUR PRIOR TO INSTALLATION. THE LIMITS OF CLEARING AND SURFACE DISTURBANCE MUST BE STRICTLY ADHERED TO IN ALL AREAS.
- ALL HAY BALES, SILT FENCE OR TEMPORARY PROTECTION SHALL REMAIN IN PLACE UNTIL AN ACCEPTABLE STAND OF GRASS IS ESTABLISHED. IF NEEDED, TEMPORARY SEEDING CAN HELP TO MINIMIZE EROSION. TEMPORARY SEED WILL CONFORM TO R.I.D.O.T. STANDARD TEMPORARY SEED MIX.
- THE CONTRACTOR MUST REPAIR AND/OR RESEED ANY AREAS THAT DO NOT DEVELOP WITHIN THE PERIOD OF ONE YEAR AND HE SHALL DO SO AT NO ADDITIONAL EXPENSE TO THE STATE.
- THE NORMAL ACCEPTABLE SEASONAL SEEDING DATES ARE SPECIFIED IN SUBSECTION L.02.03 OF THE R.I.D.O.T. STANDARD SPECIFICATIONS, LATEST EDITION.
- ADDITIONAL EROSION CONTROLS, SHALL BE INSTALLED AS DIRECTED BY THE RESIDENT ENGINEER. THESE ADDITIONAL ITEMS WILL BE PAID AT THE UNIT PRICE FOR THAT BID ITEM.

**UTILITY NOTES:**

- EXISTING UTILITIES HAVE BEEN SHOWN ON THE PLANS USING THE BEST AVAILABLE INFORMATION AND ARE APPROXIMATE. BUILDING SERVICE CONNECTIONS (ELECTRIC, GAS, TELEPHONE, WATER AND SANITARY) ARE NOT SHOWN. CONTRACTOR IS TO ASSUME SERVICES ARE PRESENT TO ALL BUILDINGS.
- THE CONTRACTOR SHALL VERIFY THE LOCATIONS OF ALL EXISTING DRAINAGE AND UTILITIES BOTH UNDERGROUND AND OVERHEAD BEFORE EXCAVATION BEGINS IN ACCORDANCE WITH CHAPTER 39-1.2 OF THE R.I. GENERAL LAWS ENTITLED "EXCAVATION NEAR UNDERGROUND UTILITY FACILITIES", WITH AMENDMENTS EFFECTIVE AS OF NOVEMBER 1, 2009 AND, WHEN NECESSARY, BY CONTACTING THE INDIVIDUAL UTILITY COMPANIES. EXCAVATION SHALL BE IN ACCORDANCE WITH ALL STATUTES, ORDINANCES, RULES AND REGULATIONS OF ANY APPLICABLE CITY, TOWN, STATE OR FEDERAL AGENCY. THE CONTRACTOR SHOULD UNDERSTAND THAT NOT ALL UTILITIES SUBSCRIBE TO THE DIG SAFE PROGRAM. IT IS THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY ALL UTILITY COMPANIES AND ENSURE THAT ALL UTILITIES HAVE BEEN MARKED PRIOR TO COMMENCING THEIR WORK. ANY DAMAGE TO EXISTING UTILITIES MARKED IN THE FIELD, OR AS A RESULT OF FAILING TO CONTACT THE APPROPRIATE UTILITY COMPANY, SHALL BE REPAIRED OR REPLACED AT NO ADDITIONAL COST TO THE STATE.
- ALL EXISTING UTILITIES TO BE ABANDONED SHALL BE CAPPED.
- EXISTING WATER SERVICES SHALL BE RECONNECTED TO THE NEW WATER MAINS.
- UTILITY SERVICE CONNECTIONS SHALL BE MAINTAINED TO ALL EXISTING FACILITIES TO REMAIN.
- FIRE HYDRANTS SHALL NOT BE REMOVED FROM SERVICE WITHOUT WRITTEN AUTHORIZATION FROM THE FIRE DEPARTMENT OR THE WATER AUTHORITY.
- ALL NEW WATER LINES SHALL BE DISINFECTED TO THE SATISFACTION OF THE WATER AUTHORITY IN ACCORDANCE WITH THE SPECIFICATIONS.
- ALL UTILITY POLE RELATED WORK SHALL BE BY OTHERS.

**THIS PLAN SHALL NOT BE ALTERED**

REVISIONS			RHODE ISLAND	
NO.	DATE	BY	DEPARTMENT OF TRANSPORTATION	
1	4/07	TRB	BRIDGE NOs. 483-486 PIER CAP REPLACEMENT AND MISCELLANEOUS BRIDGE REPAIRS SOUTH KINGSTOWN/NARRAGANSETT, RHODE ISLAND	
2	3/10	RBH		
3	4/14	MLP		
			STANDARD NOTES - 1	



CHECKED BY BK DATE SCALE AS NOTED

**LANDSCAPE NOTES:**

- ALL PLANT MATERIAL MUST BE TAGGED AT THE NURSERY (A RECOGNIZED GROWER OF PLANT MATERIAL) IN ACCORDANCE WITH THE R.I.D.O.T. STANDARD SPECIFICATIONS, LATEST EDITION. ALL PLANT MATERIAL MUST BE NURSERY GROWN; NO PLANTATION GROWN PLANT MATERIAL WILL BE ACCEPTED.
- ALL PLANT SUBSTITUTIONS AND/OR CHANGES IN PLANT LOCATION MUST BE APPROVED IN ACCORDANCE WITH THE R.I.D.O.T. STANDARD SPECIFICATIONS, LATEST EDITION.
- ALL PLANT MATERIAL IS TO BE FIELD LOCATED BY A REPRESENTATIVE FROM THE R.I.D.O.T. LANDSCAPE ARCHITECTURE UNIT.
- A R.I.D.O.T. LANDSCAPE REPRESENTATIVE MUST BE ON SITE TO APPROVE ALL TRIMMING AND CLEARING NECESSARY TO COMPLETE THE WORK AS SHOWN ON THE PLANS.
- ANY TOPSOIL USED AS PLANTABLE SOIL SHALL HAVE A SANDY LOAM TEXTURE RELATIVELY FREE OF SUBSOIL MATERIAL, STONES, ROOTS, LUMPS OF SOIL, TREE LIMBS, TRASH OR CONSTRUCTION DEBRIS, AND SHALL CONFORM TO SECTION M.18 OF THE R.I.D.O.T. STANDARD SPECIFICATIONS, LATEST EDITION.
- ALL TREES AND SHRUBS SHALL BE MULCHED WITH PINE BARK MULCH IN ACCORDANCE WITH THE R.I.D.O.T. STANDARD SPECIFICATIONS, LATEST EDITION.
- ALL TREES AND/OR SHRUBS THAT ARE PLANTED AS A BED SHALL BE MULCHED AS A BED.
- PROVIDE A MINIMUM 6'-8" BRANCHING STANDARD ON ALL TREES INSTALLED ADJACENT TO SIDEWALKS AND/OR PEDESTRIAN ACCESS AREAS.

**STRUCTURAL NOTES FOR HIGHWAY SIGNS, LUMINAIRES AND TRAFFIC SIGNALS:**

**GENERAL**

- ALL SUPPORT DESIGNS AND ASSOCIATED SHOP DRAWING REVIEWS SHALL BE IN CONFORMANCE WITH THE LATEST EDITION, OF THE AASHTO STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES AND TRAFFIC SIGNALS (THE "SPECIFICATIONS"), INCLUDING THE LATEST INTERIM SPECIFICATIONS, EXCEPT AS MODIFIED HEREIN.

**CONSTRUCTION DRAWINGS AND DETAILS**

- THE FOLLOWING NOTES SHALL BE INCLUDED ON ALL PLANS AND/OR SHOP DRAWINGS IN REFERENCE TO ANCHOR BOLTS:
  - "PRETENSIONING OF ALL ANCHOR NUTS IS REQUIRED, AND SHALL BE ACCOMPLISHED BY TIGHTENING TO 1/6TH TURN BEYOND THE SNUG-TIGHT POSITION."
  - "THE MAXIMUM CLEARANCE BETWEEN THE BOTTOM OF THE LEVELING NUTS AND THE TOP OF THE CONCRETE IS CRITICAL AND SHALL NOT EXCEED THE AMOUNT SPECIFIED ON THIS DRAWING."
- THE USE OF GROUT UNDER BASE PLATES SHALL GENERALLY NOT BE PERMITTED. IF SPECIFIC CONDITIONS WARRANT ITS USE, THE GROUT SHALL NOT BE CONSIDERED LOAD CARRYING; LOADS SHALL BE DIRECTLY SUPPORTED BY THE ANCHOR BOLTS. ADEQUATE DRAINAGE SHALL BE PROVIDED.
- THE DAMPENING EFFECTS OF VIBRATION MITIGATION DEVICES SHALL NOT BE CONSIDERED IN THE DESIGN OF STRUCTURAL SUPPORTS FOR SIGNS AND TRAFFIC SIGNALS. IF THE CONTRACTOR CHOOSES TO USE THESE DEVICES FOR WARRANTY PURPOSES, THE TYPE OF DEVICES PROPOSED SHALL BE APPROVED BY THE DEPARTMENT PRIOR TO FABRICATION OF SUPPORTS.

**TRAFFIC SIGNAL NOTES:**

- ALL SALVAGED TRAFFIC SIGNAL EQUIPMENT SHALL BE DELIVERED TO THE R.I.D.O.T. MAINTENANCE HEADQUARTERS, 360 LINCOLN AVENUE, WARWICK, RHODE ISLAND, 02888.
- BACK PLATES SHALL BE INSTALLED ON ALL TRAFFIC SIGNAL HEADS.
- THE CONTRACTOR SHALL SUPPLY AND INSTALL ON THE UPPER LEFT HAND CORNER OF THE BACK OF THE CONTROLLER CABINET DOOR A LAMINATED INTERSECTION GRAPHIC AND TABLE DEPICTING THE TRAFFIC DETECTOR RELAY CHANNEL ASSIGNMENTS. THE DIAGRAM SHALL BE A GRAPHIC OF THE INDIVIDUAL INTERSECTION ORIENTED SIMILAR TO THE PLANS SHOWING THE LOCATIONS OF EACH OF THE LOOP DETECTORS. THE DIAGRAM SHALL, AT A MINIMUM, INCLUDE DETECTOR NUMBERS, STREET NAME LABELS, NORTH ARROW, AND CONTROLLER CABINET LOCATION. THE ASSIGNMENT INFORMATION SHALL BE INCLUDED IN A TABLE WHICH SHALL INCLUDE, AT A MINIMUM, THE APPROACH NAME, DETECTOR NUMBER, TERMINAL NUMBER, DETECTOR RACK SLOT NUMBER, RELAY NUMBER, RELAY CHANNEL NUMBER, AND PHASE ASSOCIATED WITH EACH DETECTOR.
- TRAFFIC CONTROLLER CABINETS, UNLESS OTHERWISE NOTED, SHALL BE NEMA TS2 TYPE 1 CABINET SIZE 6 ("P" TYPE) WITH NOMINAL DIMENSIONS OF 52"Hx44"Wx24"D.
- ALL DELAY AND EXTENSION TIMES, AS CALLED FOR ON THE PLANS, FOR PROPOSED LOOP DETECTORS SHALL BE PROGRAMMED IN THE TRAFFIC SIGNAL CONTROLLER AND NOT THE DETECTOR RELAY.
- A BARE GROUND WIRE SHALL BE PLACED IN ALL PVC CONDUITS AND SHALL BE BONDED TO GROUND RODS IN ACCORDANCE WITH SECTION T.03 OF THE RHODE ISLAND DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.
- THE FINAL POSITION OF SIGNAL HEADS, PEDESTRIAN PUSHBUTTONS, DETECTORS, AND STOP LINE AND CROSSWALK PAVEMENT MARKINGS SHALL BE AS DIRECTED BY THE ENGINEER IN THE FIELD ACCORDING TO ACTUAL INTERSECTION CHARACTERISTICS.
- A 2' MINIMUM BUFFER SHALL BE PROVIDED BETWEEN THE CURB AND ALL LATERAL OBSTRUCTIONS (INCLUDING ALL SIGNAL POLES AND TRAFFIC/PEDESTRIAN SIGNAL HEADS) TO PROVIDE ADEQUATE CLEARANCE FOR TURNING VEHICLES.
- ALL FOUNDATIONS MUST HAVE CONES OR BARRELS BOLTED TO FOUNDATION BASES UNTIL ACTUAL POLE IS INSTALLED.
- WHEN PLACING TRAFFIC SIGNAL HANDHOLES OR CONDUIT IN EXISTING PORTLAND CEMENT CONCRETE SIDEWALKS, THE ENTIRE SIDEWALK SQUARE OF CONCRETE SHALL BE REPLACED IN ACCORDANCE WITH R.I. STD. 43.1.0. NO PATCHES WILL BE ALLOWED.
- ALL PEDESTRIAN PUSHBUTTONS SHALL BE COMPLIANT WITH "THE AMERICANS WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES FOR BUILDINGS AND FACILITIES" (ADAAG) AND SHALL INCLUDE A PRESSURE-ACTIVATED (NON-MOVING) BUTTON. SIGNS APPLICABLE TO PUSHBUTTON ACTUATION SHALL BE INSTALLED SUCH THAT THE CROSSING ASSIGNED TO EACH BUTTON IS CLEARLY INDICATED. IF SITE CONDITIONS DO NOT ALLOW PEDESTRIAN PUSHBUTTONS TO BE INSTALLED WHERE CALLED FOR ON THE PLANS, THE R.I.D.O.T. TRAFFIC ENGINEERING UNIT SHALL BE CONSULTED WITH THROUGH AN R.F.I. PRIOR TO INSTALLING THE PUSHBUTTONS. THE FINAL PLACEMENT OF ALL PEDESTRIAN PUSHBUTTONS SHALL BE IN ACCORDANCE WITH ADAAG AND THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, LATEST EDITION.
- ALL LOOP DETECTORS SHALL BE CENTERED WITHIN EACH LANE AS DELINEATED, UNLESS OTHERWISE DIMENSIONED ON PLANS.
- ALL LOOP DETECTORS SHALL BE CUT INTO THE FINAL PAVEMENT SURFACE COURSE.
- TRAFFIC SIGNAL CONTROLLERS SHALL BE WIRED SO THAT ANY FIRE PRE-EMPTION SHALL OVERRIDE MANUAL (PUSH BUTTON) OPERATION.
- THE CONTRACTOR SHALL WORK CONTINUOUSLY TO RESTORE TRAFFIC SIGNAL OPERATION TO ITS INTENDED PURPOSE WHEN REPLACING THE TRAFFIC SIGNAL EQUIPMENT. A POLICE DETAIL IS REQUIRED TO DIRECT TRAFFIC AT THE INTERSECTION AT ALL TIMES WHEN THE TRAFFIC SIGNAL IS INOPERATIVE. AT NO TIME SHALL THE CONTRACTOR LEAVE THE SITE BEFORE RESTORING FULL TRAFFIC OPERATIONS.

**SESC SHEET 3 OF 13**

FED. ROAD DIV. NO.	STATE	FEDERAL AID PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEET
1	R.I.	BHO-0483(001)	2015	4	60

**MAINTENANCE AND PROTECTION OF TRAFFIC NOTES:**

- ALL MAINTENANCE AND PROTECTION OF TRAFFIC CONTROL SETUPS, SIGNS, CHANNELIZING DEVICES, ETC., SHALL BE IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, LATEST EDITION.
- ALL SIGN MOUNTINGS FOR TEMPORARY AND CONSTRUCTION SIGNS SHALL BE IN ACCORDANCE WITH THE R.I.D.O.T. STANDARD SPECIFICATIONS, LATEST EDITION.
- THE CONTRACTOR SHALL COVER ALL EXISTING AND/OR TEMPORARY SIGNS THAT ARE NOT RELEVANT TO THE TRAFFIC CONTROL REQUIRED DURING ANY PARTICULAR STAGE OF THE CONTRACT.
- ADVANCE FLAGPERSON SIGNS (W20-7A) SHALL BE USED IN ADVANCE OF ANY POINT AT WHICH A FLAGPERSON OR A POLICE OFFICER HAS BEEN STATIONED TO CONTROL TRAFFIC. WHEN NEEDED, AN APPROPRIATE DISTANCE MESSAGE MAY BE DISPLAYED ON A SUPPLEMENTAL PLATE (24"x18") BELOW THE FLAGPERSON SYMBOL SIGN. THE SIGN SHALL BE PROMPTLY REMOVED OR COVERED WHENEVER THE FLAGPERSON IS NOT AT THE STATION.
- POLICE OFFICERS (AND NOT FLAGPERSONS) SHALL BE UTILIZED WHEN WORK WILL IMPACT SIGNALIZED INTERSECTIONS AND LIMITED ACCESS HIGHWAYS.
- POLYETHYLENE DRUMS SHALL BE UTILIZED AS A CHANNELIZING DEVICE WHEN A TRAFFIC CONTROL SET-UP IS TO REMAIN BEYOND WORKING HOURS WHEN NO WORKERS ARE PRESENT. CONES SHALL BE UTILIZED WHEN A TRAFFIC CONTROL SET-UP IS TO REMAIN ONLY DURING WORKING HOURS AND IS SUBSEQUENTLY BROKEN DOWN AT THE END OF THE WORKDAY.
- ARROW PANELS SHALL BE SET IN THE FLASHING FOUR CORNERS CAUTION MODE UNLESS UTILIZED FOR A MERGING TAPER. ARROW PANELS SET IN THE FLASHING ARROW MODE SHALL NOT BE UTILIZED FOR LANE SHIFTS.
- TEMPORARY CONSTRUCTION SIGNS AND OTHER WORKZONE TRAFFIC CONTROL DEVICES THAT ARE DAMAGED OR REQUIRE RELOCATION SHALL BE REPLACED AND / OR RELOCATED UNDER THE PAY ITEM FOR "MAINTENANCE AND MOVEMENT TRAFFIC PROTECTION."
- THE PRIVATE VEHICLES OF CONSTRUCTION WORKERS SHALL NOT BE PARKED ON THE TRAVEL LANES OR SHOULDERS. THEY MAY BE PARKED WITHIN THE STATE RIGHT-OF-WAY ONLY IN AREAS 30' BEYOND THE OUTSIDE EDGE OF THE TRAVEL LANES AND/OR IN AREAS APPROVED BY THE ENGINEER.
- TEMPORARY CONSTRUCTION SIGNS AND OTHER TEMPORARY TRAFFIC CONTROL DEVICES SHALL BE INSTALLED PRIOR TO THE START OF WORK IN ANY AREA OPEN TO TRAFFIC, AND SHALL BE REMOVED AS SOON AS PRACTICAL WHEN THEY ARE NO LONGER APPROPRIATE.
- THE INTENDED VEHICLE PATHS THROUGH EACH WORK ZONE SHALL BE CLEARLY MARKED AT ALL TIMES. WATERBORNE PAVEMENT MARKINGS SHALL BE INSTALLED BEFORE THE END OF THE WORK SHIFT ON ALL COLD-PLANED AND NEW ROADWAY SURFACES THAT WILL BE OPENED TO TRAFFIC AT THE END OF THE SHIFT.

**THIS PLAN SHALL NOT BE ALTERED**

REVISIONS			RHODE ISLAND	
NO.	DATE	BY	DEPARTMENT OF TRANSPORTATION	
1	4/07	TRB	BRIDGE NOs. 483-486 PIER CAP	
2	11/07	TRB	REPLACEMENT AND MISCELLANEOUS BRIDGE REPAIRS	
3	3/10	RHB	SOUTH KINGSTOWN/NARRAGANSETT, RHODE ISLAND	
			STANDARD NOTES - 2	
			CHECKED BY <u>  BK  </u> DATE <u>          </u> SCALE <u>AS NOTED</u>	

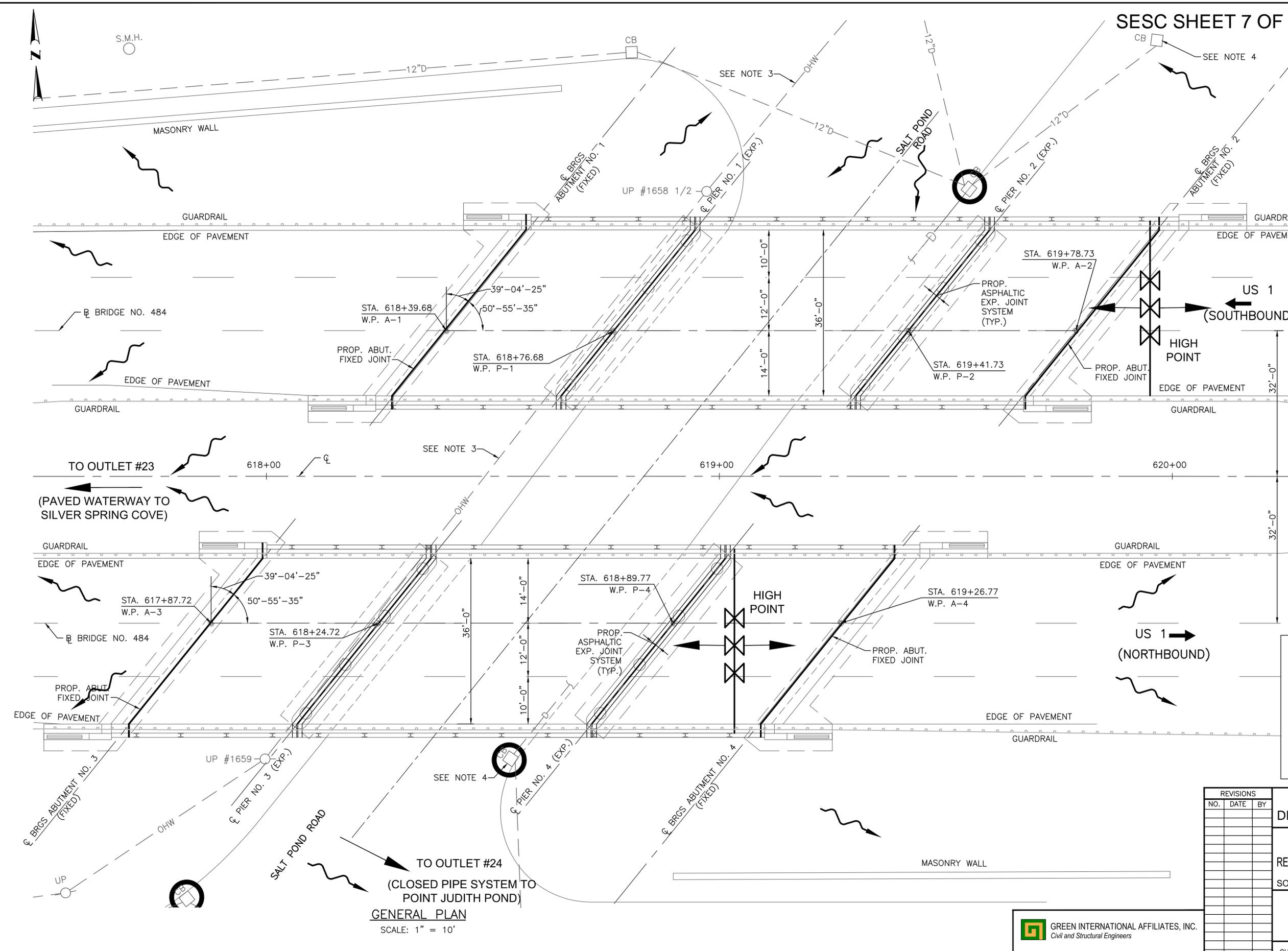








FED. ROAD DIV. NO.	STATE	FEDERAL AID PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEET
1	R.I.	BHO-0483(001)	2015	21	60



- NOTES:**
- FOR NOTES, SEE SHEETS 3 TO 6.
  - FOR MAINTENANCE AND PROTECTION OF TRAFFIC PLANS, SEE SHEETS 53 TO 57.
  - CONTRACTOR TO RELOCATE EXISTING UTILITIES PRIOR TO PIER CAP DEMOLITION. SEE SHEET 22, UTILITY RELOCATION PLAN - BRIDGE NO. 484.
  - ALL EXISTING CATCH BASINS WITHIN 25 FEET FROM EDGE OF BRIDGE DECK SHALL BE PROTECTED BY A FILTER BAG FOR CATCH BASIN. SEE SPECIAL PROVISIONS. FOR DETAIL SEE SHEET 46.

**LEGEND**

- FILTER BAG AT CATCH BASIN INLET PROTECTION
- COMPOST FILTER SOCK
- COMPOST FILTER SOCK AROUND CATCH BASIN
- FLOW PATH

REVISIONS		
NO.	DATE	BY

RHODE ISLAND  
DEPARTMENT OF TRANSPORTATION

**BRIDGE NOS. 483-486 PIER CAP**  
REPLACEMENT AND MISCELLANEOUS BRIDGE REPAIRS  
SOUTH KINGSTOWN/NARRAGANSETT, RHODE ISLAND

**SESC GENERAL PLAN**  
**BRIDGE NO. 484**  
ROUTE 1 OVER SALT POND ROAD

CHECKED BY   BK   DATE            SCALE AS NOTED



**GENERAL PLAN**  
SCALE: 1" = 10'



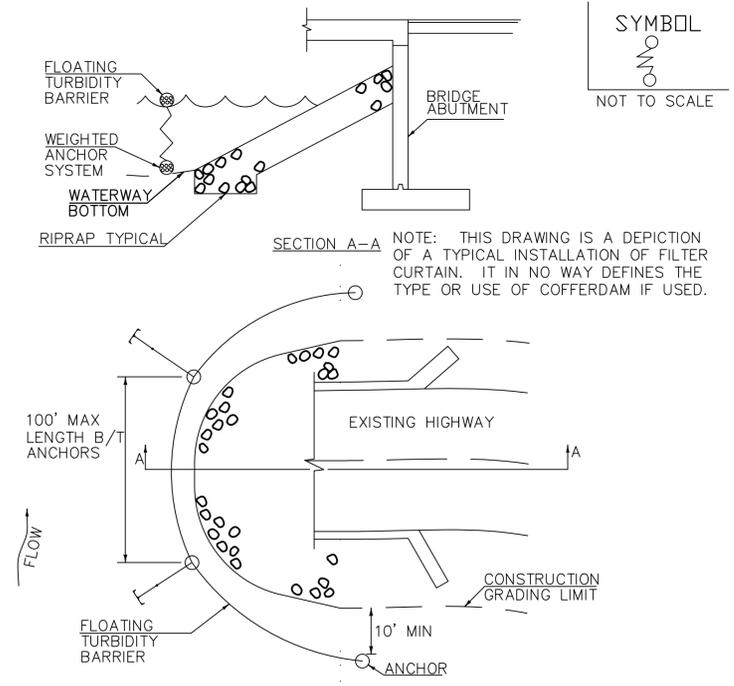






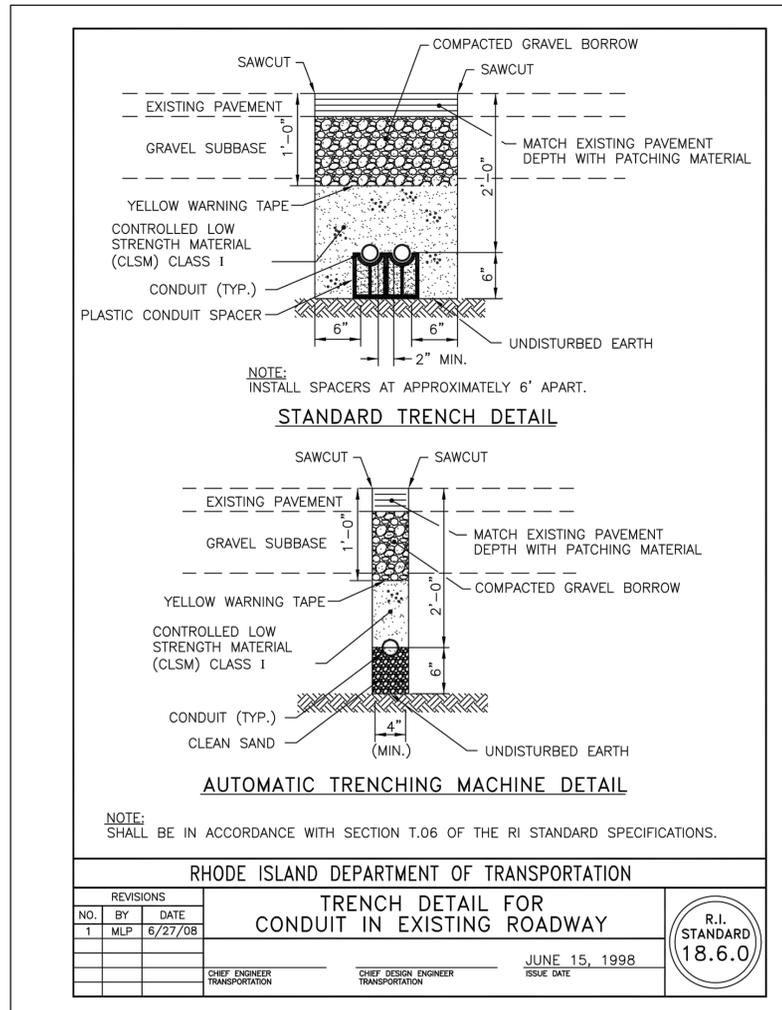
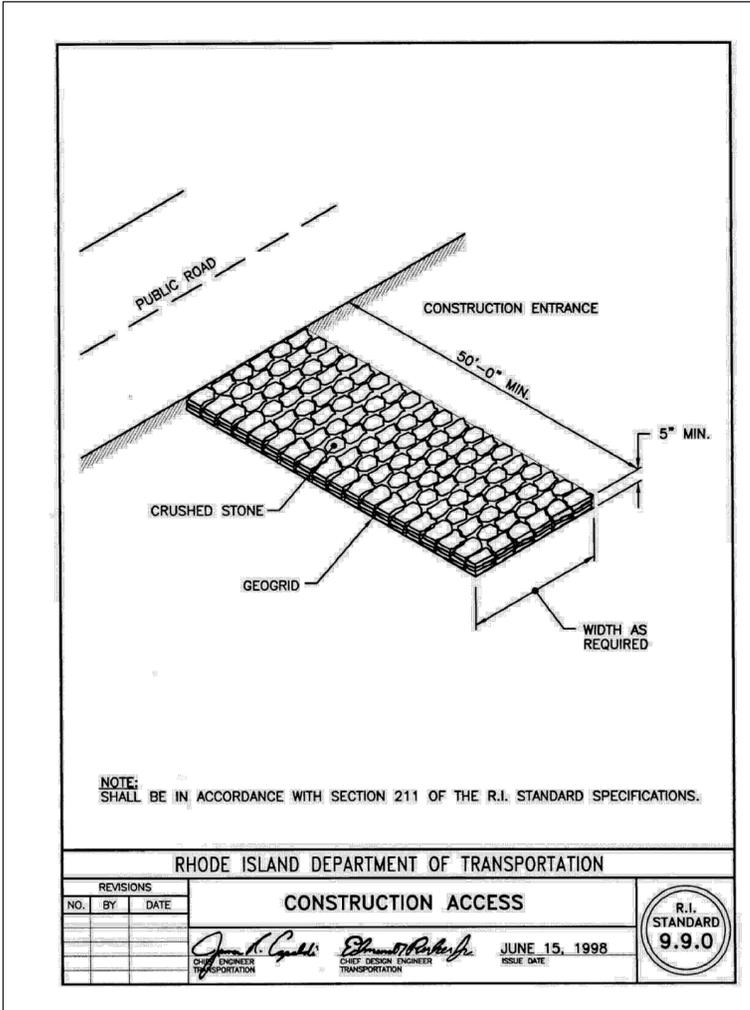


FED. ROAD DIV. NO.	STATE	FEDERAL AID PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEET
1	R.I.	BHO-0483(001)	2012	46	60

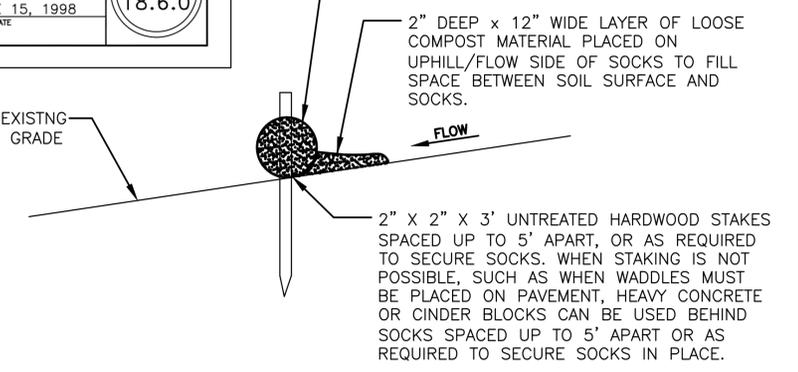


- CONSTRUCTION SPECIFICATIONS**
1. FLOATING TURBIDITY BARRIER SHALL NOT BE PLACED ACROSS A FLOWING WATERWAY.
  2. MAXIMUM 100' LENGTH BETWEEN ANCHORS.
  3. LAST SECTION SHALL TERMINATE A MINIMUM OF 10' BEYOND LIMIT OF DISTURBANCE.
  4. THE WEIGHTED ANCHOR SYSTEM SHALL BE A TYPE WHICH ALLOWS THE CURTAIN TO CONFORM TO THE BOTTOM OF THE WATERWAY.
  5. THE CURTAIN SHALL BE REMOVED BY SLOWLY PULLING TOWARD THE SHORE MINIMIZING THE ESCAPE OF SEDIMENTS INTO WATERWAY.

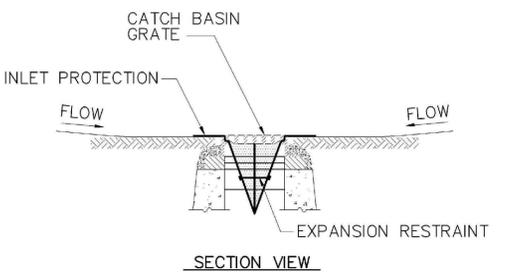
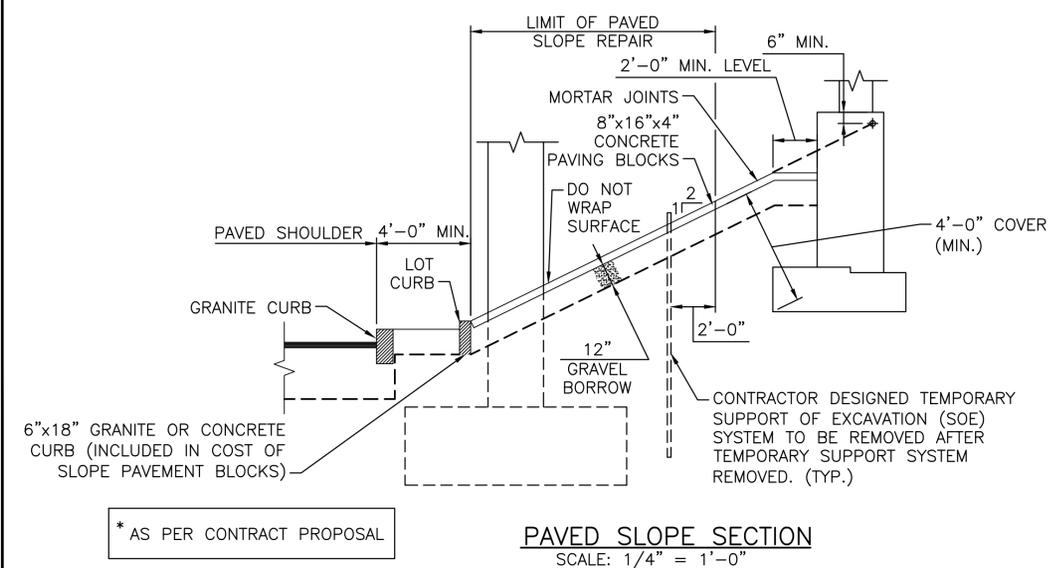
**TYPICAL FLOATING TURBIDITY BARRIER**  
NOT TO SCALE



COMPOST FILTER SOCK MINIMUM 18" IN DIAMETER WITH AN EFFECTIVE HEIGHT OF 9.5". SOCKS SHALL BE JUTE MESH OR APPROVED BIODEGRADABLE MATERIAL. ADDITIONAL SOCKS SHALL BE USED AT THE DIRECTION OF THE ENGINEER. TAMP COMPOST FILTER SOCKS IN PLACE TO ENSURE GOOD CONTACT WITH SOIL SURFACE. IT IS NOT NECESSARY TO TRENCH SOCKS INTO EXISTING GRADE.

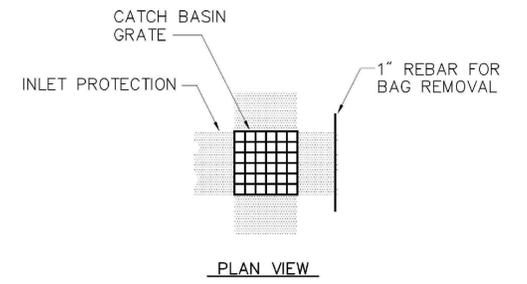


**TYPICAL COMPOST FILTER SOCK DETAIL**  
NOT TO SCALE



- NOTES:**
1. INSTALL INLET PROTECTION IN EXISTING CATCH BASINS, BEFORE COMMENCING WORK, AND IN NEW CATCH BASINS IMMEDIATELY AFTER INSTALLATION OF STRUCTURE. MAINTAIN UNTIL BINDER COURSE PAVING IS COMPLETE OR A PERMANENT STAND OF GRASS HAS BEEN ESTABLISHED.
  2. GRATE TO BE PLACED OVER INLET PROTECTION.
  3. INLET PROTECTION SHALL BE INSPECTED PERIODICALLY AND AFTER ALL STORM EVENTS AND CLEANING OR REPLACEMENT SHALL BE PERFORMED PROMPTLY AS NEEDED.
  4. SEE CONTRACT DOCUMENTS FOR JOB SPECIFIC SPECIFICATION CODE 209.9901 FOR ADDITIONAL INLET PROTECTION REQUIREMENTS.

**INLET PROTECTION - FILTER BAG FOR CATCH BASIN**  
NOT TO SCALE



REVISIONS			RHODE ISLAND DEPARTMENT OF TRANSPORTATION	
NO.	DATE	BY	BRIDGE NOS. 483-486 PIER CAP	
			REPLACEMENT AND MISCELLANEOUS BRIDGE REPAIRS	
			SOUTH KINGSTOWN/NARRAGANSETT, RHODE ISLAND	
			<b>MISCELLANEOUS DETAILS 3</b>	
			CHECKED BY BK	DATE _____ SCALE AS NOTED

**SESC APPENDIX C**  
RIPDES CONSTRUCTION GENERAL PERMIT



**AUTHORIZATION TO DISCHARGE UNDER THE  
RHODE ISLAND POLLUTANT DISCHARGE ELIMINATION SYSTEM**

**GENERAL PERMIT FOR STORMWATER DISCHARGE ASSOCIATED WITH  
CONSTRUCTION ACTIVITY**

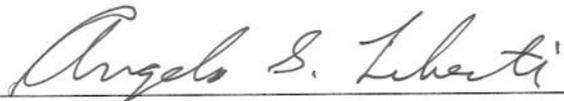
In compliance with the provisions of Chapter 46-12 of the Rhode Island general Laws, as amended, except as provided in Part I.B.3 of the permit, operators of stormwater discharges associated with construction activity located in the State of Rhode Island are authorized to discharge in accordance with the conditions and requirements set forth herein.

Operators of stormwater discharges associated with construction activity within Rhode Island who intend to be authorized by this general permit must meet the application requirements outlined in Part I.D.1 of the permit. Authorization to discharge shall be granted in accordance with Part I.D of this permit.

This general permit shall become effective on September 26, 2013.

The general permit and the authorization to discharge expire at midnight, five years from the effective date, or September 25, 2018.

Signed this *24<sup>th</sup>* day of September, 2013.



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Angelo S. Liberti, PE  
Chief of Surface Water Protection  
Office of Water Resources  
Rhode Island Department of Environmental Management  
Providence, Rhode Island



**General Permit  
Rhode Island Pollutant Discharge Elimination System  
Stormwater Discharge Associated with Construction Activity**

**Effective Date: September 26, 2013**



**Valid ONLY in accordance with Part I.D.**

Expiration Date: September 25, 2018

**Rhode Island Department of Environmental Management  
Office of Water Resources  
Permitting Section  
RIPDES Program**



**GENERAL PERMIT  
RHODE ISLAND POLLUTANT DISCHARGE ELIMINATION SYSTEM  
STORMWATER DISCHARGE ASSOCIATED WITH CONSTRUCTION ACTIVITY**

PLEASE READ THIS PERMIT CAREFULLY!

The RIPDES Program of the Office of Water Resources realizes that effective regulatory mechanisms to control erosion and sedimentation are currently required by the RIDEM Freshwater Wetland Program, the RIDEM Water Quality Certification Program, the RIDEM UIC/Ground Permit Program, the RI Coastal Resources Management Council (CRMC); and in those towns/cities which have a Qualifying Local Program (QLP) that has been formally approved by the Department (see RIPDES Rule 15.01(i) for the definition of Qualifying State, or Local Programs). **Regardless of the means of obtaining approval, the permittee is still responsible for complying with all terms and conditions of this permit and any other applicable State, local and/or federal regulations. The Department will be held harmless for any failure of the permittee to comply with this permit.**

I. GENERAL COVERAGE UNDER THIS PERMIT

A. Permit Area. This permit applies to all areas of the State of Rhode Island.

B. Eligibility

1. Allowable Stormwater Discharges. Subject to compliance with the terms and conditions of this permit, you are authorized to discharge the following:

a. All new and existing stormwater discharges associated with construction, including, but not limited to, clearing, grading, excavation, and filling, where total land disturbance is equal to or greater than one (1) acres including construction activities involving soil disturbance's of less than one (1) acre of disturbance if that construction is part of a larger common plan of development or sale that would disturb one (1) or more acre, and the discharge is composed entirely of stormwater. A discharge shall be considered composed entirely of stormwater if there is adequate access to sample the stormwater discharge covered under this permit prior to mixing with a discharge which is authorized and in compliance with an existing RIPDES permit or the discharge is listed in Part I.B.2. below.

b. Stormwater Discharges from support activities (e.g., concrete or asphalt batch plants, equipment staging areas, material storage areas, excavated material disposal areas, borrow areas ) provided:

i. The support activity is directly related to the construction site required to have a RIPDES permit coverage for discharges of stormwater associated with construction activity;

ii. The support activity is not a commercial operation serving multiple unrelated construction projects by different operators, and does not operate beyond the completion of the construction at the last construction project it supports; and

iii. Appropriate controls and measures are identified in a Soil Erosion

and Sediment Control Plan covering the discharges from the support activity areas; and

- c. Discharges composed of allowable discharges listed in Part I.B.2 of this permit commingled with a discharge authorized by a different RIPDES permit and/or discharge that does not require a RIPDES permit authorization.
2. Allowable Non-Stormwater Discharges. Allowable non-stormwater discharges under this permit are limited to discharges from the following:
- a. washing of vehicles provided chemicals, soaps, detergents, steam, or heated water are not used; cleaning is restricted to the outside of the vehicle (e.g., no engines, transmissions, undercarriages, or truckbeds); or washing is not used to remove accumulated industrial materials, paint residues, heavy metals or any other potentially hazardous materials from surfaces;
  - b. the use of water to control dust;
  - c. fire fighting activities;
  - d. fire hydrant flushings;
  - e. natural springs; uncontaminated groundwater;
  - f. lawn watering;
  - g. potable water sources including waterline flushings; irrigation drainage;
  - h. pavement wash waters where spills or leaks of toxic or hazardous materials have not occurred (unless all spilled materials have been removed) and where detergents are not used;
  - i. foundation or footing drains where flows are not contaminated with process materials such as solvents, or contaminated by contact with soils where spills or leaks of toxic or hazardous materials has occurred.

If any of these discharges may reasonably be expected to be present and to be mixed with stormwater discharges, they must be specifically identified in the site's Soil Erosion and Sediment Control Plan as described in Part III of this permit.

3. Limitations of Coverage. The following discharges associated with construction are not authorized by this permit.
- a. Stormwater discharges associated with construction that the Director of the Department of Environmental Management has found to be or may reasonably be expected to be contributing to a violation of water quality standards, or to be a significant contributor of pollutants;
  - b. Stormwater discharges associated with construction, allowable non-

stormwater discharges and discharge related activities that adversely affect a listed, or a proposed to be listed, endangered or threatened species or its critical habitat;

- c. Stormwater associated with construction discharging into any water for which a Total Maximum Daily Load (TMDL) has been either established or approved by the EPA or other water quality determination unless the Stormwater Management Plan incorporates measures or controls that meet the requirements of this permit and are consistent with the assumptions and requirements of the TMDL and Minimum Standard 3: Water Quality of the RIDISM or the project was authorized and has maintained coverage under the 2008 permit (e.g. timely re-application to RIPDES or a RIDEM Freshwater Wetlands Permit, RIDEM Water Quality Certification, RIDEM UIC/Ground Permit, CRMC Assent or QLP approval remains in effect). If the EPA approved or established TMDL or other water quality determination specifically prohibits the discharges, the discharges are not eligible for coverage under this permit.
- d. Stormwater associated with construction discharging into any Impaired water listed on the latest State of Rhode Island 303(d) List of Impaired Waters, unless the Stormwater Management Plan incorporates measures or controls that meet the requirements of this permit and address the pollutant(s) of concern as required by Standard 3: Water Quality of the RISDISM or if the project was authorized and has maintained coverage under the 2008 permit (e.g. timely re-application to RIPDES or a RIDEM Freshwater Wetlands Permit, RIDEM Water Quality Certification, RIDEM UIC/Ground Permit, CRMC Assent or QLP approval remains in effect).
- e. Post-construction discharges that originate from the site after construction activities have been completed and the site has achieved final stabilization, including any temporary support activity. Post-construction stormwater from industrial sites may need to be covered by a separate RIPDES individual permit or may need to obtain authorization to discharge under the RIPDES Multi-Sector General Permit for Stormwater Discharge Associated with Industrial Activity. Guidance for managing discharges from industrial sites can be found in Part II.C of this permit.

C. Definition of "Owner" & "Operator":

- 1. For the purposes of this permit, the "owner" of a property is the person, as defined by Rule 3 of the RIPDES Regulations, holding the title, deed, or legal document to the regulated property, facility, or activity, including a party working under an easement on the property.
- 2. The "operator" is defined as the person who has operational control over plans and specifications, or the person who has day-to-day supervision and control of activities occurring at the site. Further, for purposes of this permit, the operator is the owner if that person is performing all work related to complying with this permit.

Where a new operator is selected after the submittal of an NOI and that new

operator is directly responsible for performing the work necessary to comply with this permit, prior to performing any work at the site the new operator must sign and certify within the Soil Erosion and Sediment Control Plan document that they are the operator of the site as defined above.

D. Authorization. To be covered under this general permit, owners or operators of stormwater discharges associated with construction activities that disturb one (1) or more acres or less than one (1) acre if that construction is part of a larger common plan of development or sale that would disturb one (1) or more acre, must comply with the applicable sections below.

1. Application Requirements

a. Sites Previously Authorized under the 2008 Construction Activity General Permit– Only those owners/operators listed below are required to submit a complete NOI form.

i. Construction activities that disturb greater than one (1) acre that did not obtain a RIDEM Freshwater Wetlands Permit, RIDEM Water Quality Certification, RIDEM UIC/Ground Permit, CRMC Assent or QLP approval.

b. New Applications – Submittal of a NOI is only required for construction activities that disturb greater than one (1) acre that are not required to obtain a RIDEM Freshwater Wetlands Permit, RIDEM Water Quality Certification, RIDEM UIC/Ground Permit, CRMC Assent or QLP approval. Specific application requirements are as follows:

i. Construction activities that disturb an area equal to or greater than five (5) acres are required to submit a complete NOI form and supporting documentation required in Part IV of this permit.

ii. Construction activities that disturb an area equal to or greater than one (1) acre and less than five (5) acres are required to submit a complete NOI form, project narrative and site plan/map showing flow paths, discharges, and receiving waters.

2. Deadlines for Requesting Authorization

a. For stormwater discharges associated with construction activities which were authorized under the 2008 Construction Activity General Permit which are expected to continue beyond the effective date of this permit and the owner is required to reapply, an NOI must be submitted within sixty (60) days of the effective date of this permit to maintain permit coverage in accordance with Part I.D.3 of this permit.

b. For stormwater discharges associated with construction activities which commence after the effective date of this permit, and are required to submit an NOI in accordance with Part I.D.1.b of this permit, an NOI must be submitted at least thirty (30) days prior to the commencement of land disturbing activities.

3. Granting of Authorization

- a. Owners and operators previously authorized under the 2008 Construction Activity General Permit with an active RIDEM Freshwater Wetlands Permit, RIDEM Water Quality Certification, RIDEM UIC/Ground Permit, CRMC Assent or QLP approval will be authorized upon the effective date of this permit. Previously authorized projects must modify their existing Stormwater Management Plan to comply with Part II.B of this permit within sixty (60) days of the effective date in order to maintain permit coverage.
- b. Owners and operators previously authorized under the 2008 Construction Activity General Permit and required to resubmit a NOI under Part I.D.1.a.i will be authorized upon resubmittal of the NOI. Previously authorized projects must modify their existing Stormwater Management Plan to comply with Part II.B of this permit within sixty (60) days of the effective date in order to maintain permit coverage.
- c. Construction activities that disturb an area equal to or greater than one (1) acre that are required to obtain a RIDEM Freshwater Wetlands permit, RIDEM Water Quality Certification, RIDEM UIC/Ground Permit, CRMC Assent or QLP approval are authorized to discharge stormwater from construction activities under the terms and conditions of this permit upon receipt of all of the applicable permits listed here.
- d. For construction activities that disturb an area equal to or greater than five (5) acres and are not required to obtain one of the approvals listed above in Part I.D.3.c, authorization to discharge will only be granted upon notification from the Director after review of the NOI and Stormwater Management Plan.
- e. For construction activities that disturb an area equal to or greater than one (1) acre and less than five (5) acres and are not required to obtain one of the approvals listed in Part I.D.3.c automatic authorization to discharge will be granted upon receipt of the information required in Part I.D.1.b.ii unless notified to the contrary by the Director.

E. Termination of Coverage. Upon achieving final site stabilization, owners and operators of stormwater discharges associated with construction must submit to the DEM a completed Notice of Termination (NOT). At a minimum, the following information is required to terminate coverage under this permit:

1. The owner's name, mailing address, email address, and telephone number,
2. The operator's name, mailing address, email address, and telephone number
3. The name and location of the facility,
4. The RIPDES Construction General Permit authorization number,
5. A signed certification by the owner and operator that the stormwater discharge associated with construction activity no longer exists at the site.

Upon DEM receipt of the completed NOT coverage under this permit is terminated.

- F. Failure to Notify. Owners or operators who fail to notify the Director of their intent to be covered under a general permit, and discharge pollutants to the waters of the State or to a separate storm sewer system without a RIPDES permit, are in violation of Chapter 46-12 of Rhode Island General Laws and the Clean Water Act (CWA).

## II. PERMIT LIMITS AND CONDITIONS

If your project was previously authorized under the 2008 Construction General Permit your Stormwater Management Plan must only be revised as necessary to comply with Part II.B of this permit. The Stormwater Management Plan shall be modified to comply with Part II.B within sixty (60) days of the effective date of this permit. A Stormwater Pollution Prevention Plan (SWPPP) developed under the previous (2008) construction general permit may serve to satisfy Part III of this permit, provided it adequately addresses all new requirements.

To be covered under this permit you must develop a Stormwater Management Plan prior to submitting your NOI or your application for RIDEM Freshwater Wetlands Permit, RIDEM Water Quality Certification, RIDEM UIC/Ground Permit, CRMC Assent or QLP approval. In accordance with the *Rhode Island Stormwater Design and Installation Standards Manual* (RISDISM), the Stormwater Management Plan must include the following major elements, which serve to satisfy the eleven Minimum Standards outlined in the RISDISM, as well as comply with specific criteria for the site planning process, groundwater recharge, water quality, channel protection, and peak flow control requirements:

- A. **Stormwater Site Planning, Analysis, and Design** – This element of the Stormwater Management Plan must address the following Minimum Standards and include supporting documentation and calculations:

1. Minimum Standard 1: LID Site Planning and Design Strategies
2. Minimum Standard 2: Groundwater Recharge,
3. Minimum Standard 3: Water Quality,
4. Minimum Standard 4: Conveyance and Natural Channel Protection,
5. Minimum Standard 5: Overbank Flood Protection,
6. Minimum Standard 6: Redevelopment and Infill Projects.
7. Minimum Standard 8: Land Uses with Higher Potential Pollutant Loads (LUHPPLs)
8. Minimum Standard 9: Illicit Discharges

In addition, the following Appendices from the RISDISM provide additional guidance on how to comply with the above listed standards:

1. Appendix B: Vegetation Guidelines and Planting List
2. Appendix C: Guidance for Retrofitting Existing Development for Stormwater Management
3. Appendix F: Guidance on BMP Construction Specifications
4. Appendix I: Rhode Island River and Stream Order
5. Appendix K: Hydrologic and Hydraulic Modeling Guidance

- B. **Soil Erosion, Runoff, and Sediment Control** – In order to comply with this permit a component of the Stormwater Management Plan must address two sources of stormwater pollution: (1) pollution caused by soil erosion, runoff, and sedimentation during construction and (2) stormwater pollution generated as a direct result of the construction activity itself (i.e. stormwater contaminated by construction wastes and practices). The Stormwater

Management Plan must satisfy Part III of this permit and Minimum Standard 10 of the RISDISM – Construction Erosion and Sedimentation Control. In order to facilitate an expeditious DEM review and make it easier for the site owner and operator to comply with applicable soil erosion and sediment control requirements, it is recommended that a Soil Erosion and Sediment Control Plan be developed as a stand alone document.

- C. **Post Construction Operation and Maintenance** – The Stormwater Management Plan must address *Minimum Standard 11: Stormwater Management System Operation and Maintenance* of the RISDISM to ensure that the stormwater management system constructed will continue to function as designed. The Plan must address the O&M requirements for each stormwater management practice in Chapter 5 of the RISDISM. Additional guidance on developing O&M plans can be found in Appendix E of the RISDISM. In addition the Plan must address *Minimum Standard 7: Pollution Prevention* of the RISDISM by incorporating source control and pollution prevention measures to minimize the impact that the land use may have on stormwater runoff quality after the construction development activities have been completed and the site is fully stabilized. Additional guidance can be found in Appendix G of the RISDISM. In order to facilitate an expeditious DEM review and make it easier for the site owner(s) to comply with applicable Operation and Maintenance requirements, it is recommended that an Operation and Maintenance Plan be developed as a stand alone document.

The facility may be required to obtain authorization to discharge under the RIPDES Multi-Sector General Permit for Stormwater Discharge Associated with Industrial Activity depending on the Standard Industrial Classification that will be applicable to the site when construction is complete. In these cases the Stormwater Management Plan should address the requirements of the RIPDES Multi-Sector General Permit for Stormwater Discharge Associated with Industrial Activity.

### III. SOIL EROSION AND SEDIMENT CONTROL (SESC) PLAN REQUIREMENTS

- A. The Soil Erosion and Sediment Control (SESC) Plan shall describe and ensure the implementation of stormwater control measures which are to be used to reduce or eliminate pollutants in stormwater discharge(s) from the site and assure compliance with the terms and conditions of this permit. Control practice selection shall include an evaluation of the effectiveness of available practices and be made with proper references.
- B. Soil erosion, runoff, sediment, and pollution prevention control measures must be designed, implemented, and maintained in accordance with the requirements of this permit and in accordance with the design specifications and guidance contained in the *Rhode Island Soil Erosion and Sediment Control (RISESC) Handbook* (as amended) and the *Rhode Island Stormwater Design and Installation Standards Manual (RISDISM)* (as amended).
- C. The SESC Plan shall be stamped and signed by a Registered Professional Engineer, a Certified Professional in Erosion and Sediment Control (CPESC), a Certified Professional in Stormwater Quality (CPSWQ), or a Registered Landscape Architect certifying that the SESC Plan meets all requirements of this permit. SESC Plans which require the practice of engineering must be stamped and signed by a Registered Professional Engineer.
- D. If the SESC Plan is not required to be submitted along with the NOI (see Part I.D of this permit), then the owner, operator, or other designated person under the supervision of the

owner or operator shall make it available to the Department upon request.

- E. If the SESC Plan is requested and reviewed by the Director, he or she may notify the permittee at any time that it does not meet one or more of the minimum requirements of this permit. After such notification from the Director, the permittee shall amend the SESC Plan and shall submit to the Director, within seven (7) days of the notification, a written certification that the required changes have been made.
- F. The owner and operator shall amend the SESC Plan within seven (7) days whenever there is a change in design, construction, operation, maintenance or other procedure which has a significant effect on the potential for the discharge of pollutants, or if the SESC Plan proves to be ineffective in achieving its objectives. In addition, the SESC Plan shall be amended to identify any new operator that will implement a component of the SESC Plan. The amended SESC Plan must be kept on file at the construction site and any SESC Plan modifications must be documented. Any amendments to control measures which involved the practice of engineering, must first be reviewed, signed, and stamped by a Professional Engineer registered in the State of Rhode Island. The DEM reserves the right to review any SESC Plan amendments in the same manner as described in paragraph III.E (above).
- G. A copy of the SESC Plan including site plans, amendments to the SESC Plan and site plans, records of inspections, maintenance, and corrective actions, a copy of the NOI, and any regulatory permits granted must be kept on site at all times during the extent of coverage under this permit. The site operator as defined by Part I.C.2 of this permit must maintain a copy of the SESC Plan at a central location on-site for the use of all those identified as having responsibilities under the SESC Plan whenever they are on the construction site. If an on-site location is unavailable to store the SESC Plan and associated records when no personnel are present, notice of the SESC Plan's location must be posted near the main entrance of the construction site.
- H. Each project authorized under this permit must determine if the site is within or directly discharges to a Natural Heritage Area (NHA). DEM Natural Heritage Areas include known occurrences of state and federal rare, threatened and endangered species. Review DEM NHA maps to determine if there are natural heritage areas on or near the construction site.
- I. List and provide existing data (if available) on the quality of known discharges from the site. The SESC Plan must identify any stormwater discharge associated with industrial activity other than construction if applicable.
- J. Soil Erosion and Sediment Control Plans: Required Contents
  - 1. **Erosion, Runoff, and Sediment Control Requirements** – Owners and Operators must design, install, and maintain effective erosion, runoff, and sediment controls that address the nature of stormwater run-on and runoff at the site, including factors such as expected flow from impervious surfaces, slopes, and site drainage features. If stormwater flow will be channelized at the site, site owners and operators must design temporary stormwater controls that will control peak flow rates and total stormwater volume, to minimize channel and stream bank erosion in the immediate vicinity of discharge points. These controls must be designed to address the range of soil particle sizes expected to be present, site soils, slope, and the expected amount, frequency, intensity, and duration of precipitation. At a minimum the following must be addressed:

- a. Phase Construction Activity – describe the intended construction sequencing and timing of major activities, including grading activities, road and utility installation, and building phases. The estimated timetable and sequence of construction activities must address the following key activities:
  - i. Installation of erosion, runoff, and sediment controls and temporary pollution prevention measures.
  - ii. Protection of planned infiltration sites and qualifying pervious areas from compaction.
  - iii. Inspection and maintenance of erosion, runoff, sediment controls and other temporary pollution prevention measures.
  - iv. Final site stabilization and removal of temporary erosion, runoff, and sediment controls and temporary pollution prevention measures.
- b. Control Stormwater Flowing Onto and Through the Project – Describe controls that will be used to divert flows from exposed soils, retain or detain flows, or otherwise limit runoff and the discharge of pollutants from exposed areas of the site. A description of controls, including design specifications and details must be provided.
- c. Stabilize Soils – Describe controls that will be used to stabilize soils throughout the entire duration of the construction project, including phased clearing/grubbing, initiating stabilization practices, and maintaining stabilization practices. Soil stabilization of disturbed areas must, at a minimum be initiated immediately whenever any clearing, grading, excavating or other earth disturbance activities have permanently ceased on any portion of the site, or temporarily ceased on any portion of the site and will not resume for a period exceeding fourteen (14) calendar days. Stabilization must be completed using vegetative stabilization measures or using alternative measures whenever vegetative measures are deemed impracticable or during periods of drought.
- d. Protect Storm Drain Inlets – Describe controls, including design specifications and details, that will be used to prevent soil and debris from entering storm drain inlets. If stormwater discharges from the construction site have the potential to enter storm drain inlets that then discharge to a surface water, the site owner and operator must:
  - i. *Installation Requirements:* Install inlet protection practices that remove sediment from the discharge prior to entry into the storm drain inlet.
  - ii. *Maintenance Requirements:* Clean, or remove and replace, the protection practices as sediment accumulates, the filter becomes clogged, and/or performance is compromised.

Accumulated sediment adjacent to the inlet protection measures should be removed by the end of the same work day in which it is found or by the end of the following work day if removal by the same work day is not feasible.

- e. Protect Storm Drain Outlets - Describe controls, including design specifications and details, to be used to protect outlets discharging stormwater from the project. Outfall protection must be used to prevent scour or severe erosion at discharge points. The function of the specified controls must be to protect the soil surface, reduce velocity, and promote infiltration.
- f. Establish Perimeter Controls and Sediment Barriers – Describe controls, including selection criteria and details, to be used to prevent soil erosion, filter, and trap sediment before it leaves the construction site.
  - i. *Installation Requirements:* Sediment controls must be installed along those perimeter areas of the site that will receive stormwater from earth disturbing activities.
  - ii. *Maintenance Requirements:* Maintenance of perimeter controls and sediment barriers must be completed in accordance with the maintenance requirements specified in the RISESC Handbook (as amended).
- g. Establish Temporary Controls For The Protection of Post Construction Stormwater Practices – Identify the temporary practices that will be installed to protect permanent or long-term stormwater practices as they are installed and throughout the construction phase of the project so that they will function properly when they are brought online. Examples of long-term practices that may require protection include: infiltration basins, open vegetated swales and natural depressions, vegetated buffer strips, and permanent detention/retention structures. Examples of temporary control measures that can be used to protect permanent stormwater control measures include: establishing temporary sedimentation barriers around infiltrating practices, ensuring proper material staging areas and equipment routing (i.e. do not allow construction equipment to compact areas where infiltrating practices will be installed), and by conducting final cleaning of structural long term practices after construction is completed.
- h. Temporary Sediment Trapping and Temporary Stormwater Conveyance Practices – Describe the need for temporary sediment trapping and temporary stormwater conveyance practices, and if required include design specifications and details which demonstrate that they comply with Minimum Standard 10 of the RISDISM.
- i. Utilize Surface Outlets – To the maximum extent practicable, outlet structures must be utilized that withdraw water from the surface of temporary sedimentation basins, in order to minimize the discharge of pollutants. Exceptions may include periods of extended cold weather, where alternate outlets are required during frozen periods. If such a device

is infeasible for portions of or the entire construction period justification must be made in the SESC Plan.

- j. Properly Use Treatment Chemicals - If the owner and/or operator plans to utilize polymers, flocculants, or other treatment chemicals at the construction site (e.g. dewatering, temporary sediment traps, stormwater conveyance practices, soil stabilization), the use of such chemicals must be managed in accordance with current best management practices and in accordance with the requirements of the *Rhode Island Soil Erosion and Sediment Control (RISESC) Handbook* (as amended).

2. **Construction Activity Pollution Prevention Requirements** – The purpose of pollution prevention is to prevent daily construction activities from causing pollution. The owner and operator must design, install, implement, and maintain effective pollution prevention practices to minimize the discharge of pollutants. Pollution prevention practices must be described that will serve to control pollutants used at the site. At a minimum pollution prevention measures must address the following:

- a. Prohibited Discharges - The following discharges are prohibited at the construction site:
  - i. Contaminated groundwater, unless specifically authorized by the DEM. These types of discharges may only be authorized under a separate DEM RIPDES permit.
  - ii. Wastewater from washout of concrete, unless the discharge is contained and managed by appropriate controls.
  - iii. Wastewater from washout and cleanout of stucco, paint, form release oils, curing compounds, and other construction materials.
  - iv. Fuels, oils, or other pollutants used in vehicle and equipment operation and maintenance. Proper storage and spill prevention practices must be utilized at all construction sites.
  - v. Soaps or solvents used in vehicle and equipment washing.
  - vi. Toxic or hazardous substances from a spill or other release.
- b. Minimize Off-Site Tracking of Sediments – Describe the location(s) of vehicle entrance(s) and exit(s), and stabilization practices used to prevent sediment from being tracked off-site. Sediment track-out must be minimized onto off-site streets, other paved areas, and sidewalks from vehicles exiting the construction site. Site owners and operators must:
  - i. Restrict vehicle use to properly designated exit points.
  - ii. Use properly designed and constructed construction entrances at all points that exit onto paved roads so that sediment removal occurs prior to vehicle exit.

- iii. When and where necessary, use additional controls to remove sediment from vehicle tires prior to exit (i.e. wheel washing racks, rumble strips, and rattle plates).
  - iv. Where sediment has been tracked out from the construction site onto the surface of off-site streets, other paved areas, and sidewalks, the deposited sediment must be removed by the end of the same work day in which the trackout occurs. Track-out must be removed by sweeping, shoveling, or vacuuming these surfaces, or by using other similarly effective means of sediment removal. Operators are prohibited from hosing or sweeping tracked-out sediment into any stormwater conveyance, storm drain inlet, or surface water.
- c. Proper Waste Disposal – Identify potential building materials and other construction wastes and document how these wastes will be properly managed and disposed of at the construction site. All types of wastes generated at the site must be disposed of in a manner consistent with State Law and/or regulations.
  - d. Spill Prevention and Control – All chemicals and/or hazardous waste material must be stored properly and legally in covered areas, with containment systems constructed in or around the storage areas. Areas must be designated for materials delivery and storage. All areas where potential spills can occur, and their accompanying drainage points must be described. The owner and operator must establish spill prevention and control measures to reduce the chance of spills, stop the source of spills, contain and clean-up spills, and dispose of materials contaminated by spills. The operator must establish and make highly visible location(s) for the storage of spill prevention and control equipment and provide training for personnel responsible for spill prevention and control on the construction site.
  - e. Control of Allowable Non-Stormwater Discharges – Allowable non-stormwater discharges as established in Part I.B.2 of this permit should be kept separate from stormwater flow through the use of appropriate control measures. The owner and operator must identify all allowable non-stormwater discharges associated with construction activity and describe the controls and measures that will be implemented at those locations to minimize pollutant contamination where applicable.
  - f. Control Dewatering Practices – Describe dewatering practices that will be implemented if water must be removed from an area so that construction activity can continue. Site owners and operators are prohibited from discharging groundwater or accumulated stormwater that is removed from excavations, trenches, foundations, vaults, or other similar points of accumulation, unless such waters are first effectively managed by appropriated control measures. Examples of appropriate control measures include, but are not limited to, temporary sediment basins or sediment

traps, sediment socks, dewatering tanks and bags, or filtration systems (e.g. bag or sand filters) that are designed to remove sediment. Uncontaminated, non-turbid dewatering water can be discharged without being routed to a control. At a minimum the following discharge requirements must be met for dewatering activities:

- i. Do not discharge visible floating solids or foam.
  - ii. To the extent feasible, utilize vegetated, upland areas of the site to infiltrate dewatering water before discharge. In no case will surface waters be considered part of the treatment area.
  - iii. At all points where dewatering water is discharged utilize velocity dissipation devices.
  - iv. With filter backwash water, either haul it away for disposal or return it to the beginning of the treatment process.
  - v. Replace and clean the filter media used in dewatering devices when the pressure differential equals or exceeds the manufacturer's specifications.
  - vi. Dewatering practices must involve the implementation of appropriate control measures as applicable (i.e. containment areas for dewatering earth materials, portable sediment tanks and bags, pumping settling basins, and pump intake protection).
- g. Establish Proper Building Material Staging Areas - Describe construction materials expected to be stored on-site and procedures for storage of materials to minimize exposure of the materials to stormwater. Minimization of exposure is not required in cases where the exposure to precipitation and to stormwater will not result in a discharge of pollutants, or where exposure of a specific material or product poses little risk of stormwater contamination (such as final products and materials intended for outdoor use).
- h. Control Discharges from Stockpiled Sediment or Soil - Stockpile management consists of procedures and practices designed to minimize or eliminate the discharge of stockpiled material (soil, topsoil, base material, rubble) from entering drainage systems or surface waters. For any stockpiles or land clearing debris composed, in whole or in part, of sediment or soil, you must comply with the following requirements:
- i. Locate piles within the designated limits of disturbance.
  - ii. Protect from contact with stormwater (including run-on) using a temporary perimeter sediment barrier.
  - iii. Where practicable provide cover or appropriate temporary

vegetative or structural stabilization to avoid direct contact with precipitation or to minimize the discharge of sediments.

- iv. Do not hose down or sweep soil or sediment accumulated on pavement or other impervious surfaces into any stormwater conveyance, storm drain inlet, or surface water.
- v. To the maximum extent practicable, contain and securely protect from wind.
- i. Minimize Dust – describe dust control procedures and practices that will be used to suppress dust and limit its generation (i.e. applying water, limiting the amount of bare soil exposed at one time etc.).
- j. Designate Washout Areas – describe the controls that will be used to minimize the discharge of pollutants from equipment and vehicle washing, wheel wash water, washout areas for concrete mixers, paint, stucco, etc. The recommended location(s) of washout areas should be identified, or at a minimum the locations where these washout areas should not be sited should be called out.
- k. Establish Proper Equipment/Vehicle Fueling and Maintenance Practices – Describe equipment/vehicle fueling and maintenance practices that will be implemented to prevent pollutants from mixing with stormwater (e.g. secondary containment, drip pans, spill kits, etc.). Provide recommended location(s) of fueling/maintenance areas, or, at minimum, locations where fueling/maintenance should be avoided.

### 3. **Control Practice Installation, Inspection, and Maintenance Requirements**

- a. Installation Requirements - Complete the installation of temporary erosion, runoff, sediment, and pollution prevention control measures by the time each phase of earth-disturbance has begun. All stormwater controls must be installed in accordance with good engineering practices, including applicable design specifications. Design specifications may be found in manufacturer specifications and/or the *Rhode Island Soil Erosion and Sediment Control (RISESC) Handbook* (as amended). Any departures from such specifications must be provided and demonstrated to reflect good engineering practices.
- b. Inspection Requirements
  - i. *Minimum Frequency* - Each of the following areas must be inspected by or under the supervision of the owner and operator at least once every seven (7) calendar days and within twenty-four (24) hours after any storm event which generates at least 0.25 inches of rainfall per twenty-four (24) hour period and/or after a significant amount of runoff:
    - a. All areas that have been cleared, graded, or excavated and that have not yet completed

stabilization;

- b. All stormwater erosion, runoff, and sediment control measures (including pollution prevention practices) installed at the site to comply with this permit;
  - c. Construction material, unstabilized soil stockpiles, waste, borrow, or equipment storage, and maintenance areas that are covered by this permit and are exposed to precipitation;
  - d. All areas where stormwater typically flows within the site, including temporary drainage ways designed to divert, convey, and/or treat stormwater;
  - e. All points of discharge from the site;
  - f. All locations where temporary or permanent soil stabilization measures have been implemented.
  - g. All locations where vehicles enter or exit the site.
- ii. *Qualified Personnel* – The site owner and operator are responsible for designating personnel to conduct inspections and for ensuring that the personnel who are responsible for conducting the inspections are “qualified” to do so. A “qualified person” is a person knowledgeable in the principles and practices of erosion, runoff, sediment, and pollution prevention controls, who possesses the skills to assess conditions at the construction site that could impact stormwater quality, and the skills to assess the effectiveness of any stormwater controls selected and installed to meet the requirements of this permit.
- iii. *Recordkeeping Requirements* - All records of inspections, including records of maintenance and corrective actions must be maintained with the SESC Plan. Inspection records must include the date and time of the inspection, and the inspector’s name, signature, and contact information.
- iv. *Reductions in Inspection Frequency* - If earth disturbing activities are suspended due to frozen conditions, inspections may be reduced to a frequency of once per month. The owner and operator must document the beginning and ending dates of these periods in the SESC Plan.
- v. Failure to make and provide documentation of inspections under

this part constitutes a violation of this permit and enforcement actions under 46-12 of R.I. General Laws may result.

- c. **Maintenance Requirements** – Site owners and operators must ensure that all erosion, runoff, sediment, and pollution prevention controls remain in effective operating condition and are protected from activities that would reduce their effectiveness. Site owners and operators must ensure that all erosion, runoff, sediment, and pollution prevention controls are inspected at the frequency established in Part III.J.3.b of this permit. If the designated site inspector finds a problem (i.e. erosion, runoff, sediment or pollution prevention controls require replacement, repair, or maintenance), the owner and operator must ensure that the necessary repairs or modifications are made in accordance with the following:
  - i. Initiate work to fix the problem immediately after discovering the problem, and complete such work by the close of the next work day, if the problem does not require significant repair or replacement, or if the problem can be corrected through routine maintenance.
  - ii. When installation of a new control or a significant repair is needed, site owners and operators must ensure that the new or modified control practice is installed and made operational by no later than seven (7) calendar days from the time of discovery where feasible. If it is infeasible to complete the installation or repair within seven (7) calendar days, the reasons why it is infeasible must be documented in the SESC Plan along with the schedule for installing the stormwater control(s) and making it operational as soon as practicable after the 7-day timeframe. Where these actions result in changes to any of the stormwater control measures outlined in the SESC Plan, site owners and operators must modify the SESC Plan accordingly within seven (7) calendar days of completing this work in accordance with Part III.F.
  - iii. If corrective actions are required, the site owner and operator must ensure that all corrective actions are documented on the inspection report in which the problem was first discovered. These corrective actions must be documented, signed, and dated by the site operator once all necessary repairs have been completed.
4. **Site Plan Requirements** – Site Plans must depict all of the control measures required to meet the SESC Plan requirements of this permit. Depending on the complexity, the SESC Plan may reference the complete construction plan set prepared as part of the overall Stormwater Management Plan, and/or may have a specific SESC Plan Set developed. The SESC Plan should indicate the plan type (General, Drainage & Utility, SESC Plan, etc.) and sheet numbers where the following required information can be found:
  - a. Title & Date of Plan Set(s).

- b. Total Project Area, including all grading and/or excavation, and a defined Limit of Disturbance.
- c. Pre- and post-development drainage patterns.
- d. The location and name of the receiving waters and/or separate storm sewer system and the ultimate receiving waters that may be impacted during construction.
- e. Location of environmentally sensitive features and areas to be preserved and/or protected.
- f. Locations where stormwater discharges to a surface water or wetland.
- g. Location of all existing and proposed impervious surfaces/structures.
- h. Locations of potential sources of pollution that may reasonably be expected to affect the quality of stormwater discharges from the site (i.e. exposed, unstabilized soil stockpiles and construction material and waste collection areas).
- i. Locations and timing of stabilization practices including phased clearing and grubbing based on scheduled activities.
- j. The location of all erosion, runoff, sediment, and pollution prevention control measures, including the location of temporary sediment basins, diversions, or other water quality, peak discharge, and volume control structures
- k. Areas within the project limits which are unsuitable for material storage areas, equipment storage areas, designated concrete washout collection areas, dumpsters, stockpiles, fueling locations, etc. (i.e. locations where these activities shall not occur, and recommendations of where they may occur).
- l. The location of spill prevention and response equipment.
- m. The location of all proposed post-construction best management practices including locations of infiltrating practices and prohibited traffic areas.

#### IV. NOTICE OF INTENT REQUIREMENTS

##### A. Contents of the Notice of Intent:

- 1. The owner's name, mailing address, telephone number, email address, contact person, and billing address.

2. The operator's name, mailing address, telephone number, email address, and contact information.
3. Construction site information, including the street address, latitude and longitude, nearest utility pole number, and Assessors plat and lot.
4. Information for construction sites that are part of a larger common plan of development or sale, including the name of the larger common plan of development and total disturbed area of the larger common plan.
5. The projected or actual construction commencement date and the projected construction completion date.
6. The total area of the site and total disturbed acres.
7. The name of the receiving water(s), or if the discharge is through a separate storm sewer system, the name of the operator of the separate storm sewer system and the ultimate receiving water(s), including the water body ID number, and whether the water body is a cold or warm water fishery.
8. Indicate whether or not the water body is considered impaired, provide the list of impairments if applicable, indicate whether or not the water body is an SRPW or if a TMDL has been completed for the receiving water body.
9. Indicate whether or not the proposed project is associated with a DEM Office of Waste Management (OWM) site?
10. Indicate whether or not the proposed project is associated with a previously submitted permit application or DEM enforcement action.
11. Identify whether or not the project meets the criteria for a Land Use with Higher Potential Pollutant Loads (LUHPPL) as defined by the *Rhode Island Stormwater Design and Installation Standards Manual* (as amended).
12. Will the site require a separate permit for the proposed industrial activity under Rule 31(b)15 of the RIPDES Regulations? If yes, describe.
13. Is the site within or directly discharging to a Natural Heritage Area (NHA)?
14. A signed certification by the Owner and Operator that the NOI and all attachments were prepared under the direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. That the information submitted on the NOI and all attachments is true, accurate, and complete. In addition, the Owner and Operator indicate that a stormwater permit is contingent upon approval from the reviewing agency and that there are significant penalties for submitting false information including the possibility of fine and imprisonment for knowing violations. The Owner and Operator must also certify that they are aware that it is their responsibility to implement and amend the Soil Erosion and Sediment Control Plan as appropriate in accordance with the requirements of this permit.

15. A signed certification by a Registered Professional Engineer, a Certified Professional in Erosion and Sediment Control (CPESC), a Certified Professional in Stormwater Quality (CPSWQ), or a Registered Landscape Architect certifying that the construction activity is located completely outside of and does not discharge directly to a Natural Heritage Area found on RIDEM's web site [under Maps, Environmental Resource Map, Regulatory Overlays, Natural Heritage Area – Rare Species]. For projects that propose a stormwater or allowable non-stormwater discharge to a Natural Heritage Area, or has discharge related activities that potentially affect a listed or proposed to be listed endangered or threatened species or its critical habitat, the owner must submit a map showing the location of the construction site, including the street, nearest utility pole number, Assessors plat and lot, total area of the site, and the limits of disturbance.
16. A signed certification by a Registered Professional Engineer, a Certified Professional in Erosion and Sediment Control (CPESC), a Certified Professional in Stormwater Quality (CPSWQ), or a Registered Landscape Architect, that the SESC Plan has been developed in accordance to the requirements of this permit as well as all applicable guidelines of the *Rhode Island Soil Erosion and Sediment Control Handbook* (as amended) and the *Rhode Island Stormwater Design and Installation Standards Manual* (as amended). If the SESC Plan requires the practice of engineering, the NOI must be signed by a Registered Professional Engineer.
17. For construction activities that disturb an area greater than or equal to five (5) acres and are not required to obtain a RIDEM Freshwater Wetlands Permit, RIDEM Water Quality Certification, RIDEM UIC/Ground Permit, CRMC Assent or QLP, the NOI must include a completed Stormwater Management Checklist as provided in Appendix A of the *Rhode Island Stormwater Design and Installation Standards Manual* (as amended) and a copy of the Stormwater Management Plan.
18. After review of the NOI, additional information may be required by this office to determine whether or not to authorize the discharge under this permit.

B. Where to Submit. A completed and signed NOI must be submitted to:

R.I. Department of Environmental Management  
Office of Water Resources  
RIPDES Permitting Program  
235 Promenade Street  
Providence, RI 02908

C. Additional Notification. Construction sites discharging stormwater must submit a copy of the NOI to the applicable Town or City Department in which the construction activity and the point of discharge is located.

D. Deficient If the NOI does not meet one or more of the minimum requirements of this permit, then the applicant will be notified as such by a deficiency letter at any point during the review period. It is the responsibility of the applicant to make all required changes in the plan and resubmit the application. The review period will recommence upon the departmental receipt of the revised application.

## V. GENERAL REQUIREMENTS

- A. Duty to Comply. The permittee must comply with all conditions of this permit and any other applicable State, local and/or federal regulations. Any permit noncompliance constitutes a violation of Chapter 46-12 of the Rhode Island General Laws and the CWA and is grounds for enforcement action which may include, permit termination, revocation and reissuance, modification, or for the denial of a permit renewal application and the imposition of penalties.
1. The permittee shall comply with effluent standards or prohibitions established under Section 307(a) of the CWA for toxic pollutants within the time provided in the regulations that establish these standards or prohibitions, even if the permit has not yet been modified to incorporate this requirement.
  2. Section 309 of the CWA provides significant penalties for any person who violates a permit condition implementing Sections 301, 302, 306, 307, 308, 318, or 405 of the CWA or any permit condition or limitation implementing any such sections in a permit issued under Section 402 of the CWA. Any person who violates any condition of this permit is subject to a civil penalty of up to \$25,000 per day of such violation, as well as any other appropriate sanctions provided by Section 309 of the CWA. Section 309(c)(4) of the CWA provides that any person who knowingly makes any false material statement, representation, or certification in any record or other document submitted or required to be maintained under this permit, including reports of compliance or noncompliance shall, upon conviction, be punished by a fine of up to \$10,000 or by imprisonment of not more than two (2) years, or by both.
  3. Chapter 46-12 of the R.I. General Laws provides that any person who violates a permit condition is subject to a civil penalty of not more than \$25,000 per day of such violation. Any person who willfully or negligently violates a permit condition is subject to a criminal penalty of not more than \$25,000 per day of such violation and imprisonment for not more than five (5) years, or both. Any person who knowingly makes any false statement in connection with the permit is subject to a criminal penalty of not more than \$5,000 for each instance of violation or by imprisonment for not more than thirty (30) days, or both.
- B. Continuation of the Expired General Permit. Provided the permittee has reapplied in accordance with paragraph C. below, an expired general permit continues in force and effect until a new general permit is issued. Only those construction sites previously authorized to discharge under the expired permit are covered by the continued permit.
- C. Duty to Reapply. If the permittee wishes to continue an activity regulated by this permit after the expiration date of this permit, the permittee must apply for and obtain coverage under a new permit. The permittee shall submit a complete Notice of Intent at least thirty (30) days before the expiration date of the existing permit, unless permission for a later date has been granted by the Director.
- D. Need to Halt or Reduce Activity Not a Defense. It shall not be a defense for the permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit.
- E. Duty to Mitigate. The permittee shall take all reasonable steps to minimize or prevent any

discharge in violation of this permit, which has a reasonable likelihood of adversely affecting human health or the environment.

- F. Duty to Provide Information. The permittee shall furnish to the Department, within a reasonable time, any information which the Director may request to determine whether cause exists for modifying, revoking and reissuing, or terminating this permit, or to determine compliance with this permit. The permittee shall furnish to the Director any documents that are required to be kept as part of this permit.
- G. Signatory Requirements. All Notices of Intent, Stormwater Management Plans, Soil Erosion and Sediment Control Plans, inspection reports, certifications, or other information submitted to the Director, or that this permit requires be maintained by the permittee shall be signed and certified in accordance with Rule 12 of the RIPDES regulations. R.I. General Laws, Chapter 46-12 provides that any person who knowingly makes any false statements, representation, or certification in any record or other document submitted or required to be maintained under this permit, including monitoring reports or reports of compliance or noncompliance shall, upon conviction, be punished by a fine of not more than \$5,000 per violation, or by imprisonment for not more than thirty (30) days per violation, or by both.
- H. Oil and Hazardous Substance Liability. Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities, or penalties to which the permittee is or may be subject under Section 311 of the CWA.
- I. Release in Excess of Reportable Quantities. If a release in excess of a reportable quantity occurs, this office must be notified immediately. This permit does not relieve the permittee of the reporting requirements of 40 CFR 117 and 40 CFR 302. The discharge of hazardous substances in the stormwater discharge(s) from a facility shall be minimized in accordance with the applicable stormwater management plan for the facility, and in no case, during any twenty four (24) hour period, shall the discharge(s) contain a hazardous substance equal to or in excess of reportable quantities.
- J. Property Rights. The issuance of this permit does not convey any property rights of any sort, nor any exclusive privileges, nor does it authorize any injury to private property nor any invasion of personal rights, nor any infringement of Federal, State, or local laws or regulations.
- K. Severability. The provisions of this permit are severable, and if any provision of this permit, or the application of any provision of this permit to any circumstance, is held invalid, the application of such provision to other circumstances and the remainder of this permit shall not be affected thereby.
- L. Transfers. This permit is not transferable to any person except after notice to the Director. The Director may require the owner and operator to apply for and obtain an individual RIPDES permit as stated in Part V.T. of this permit.
- M. State Laws. Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities, or penalties established pursuant to any applicable State law.

N. Proper Operations and Maintenance. The permit shall at all times properly operate and maintain all facilities and systems of treatment and control (and related appurtenances) which are installed or used by the permittee to achieve compliance with the requirements of this permit.

O. Record Keeping

1. The permittee shall retain records of all inspections and reports required by this permit, and records of all data used to complete the application for this permit, for a period of at least five (5) years from the date of the report or application. The records must be kept at the construction site at all times. If an on-site location is deemed impractical, notice of the location of the required records must be posted near the main entrance to the construction site. Once the construction project is complete and the permit has been terminated, records must be kept at either the completed project location or the records must be maintained by the owner of record at the time that the construction project was active. This period may be extended by request of the Director at any time.

P. Bypass of Stormwater Control

1. *Anticipated Bypass.* If the permittee knows in advance of the need for a bypass, he or she shall notify this Department in writing at least ten (10) days prior to the date of the bypass. Such notice shall include the anticipated quantity and the anticipated effect of the bypass.
2. *Unanticipated Bypass.* The permittee shall submit notice of an unanticipated bypass. Any information regarding the unanticipated bypass shall be provided orally within twenty four (24) hours from the time the permittee became aware of the circumstances. A written submission shall also be provided within five (5) days of the time the permittee became aware of the bypass. The written submission shall contain a description of the bypass and its cause; the period of the bypass; including exact dates and times, and if the bypass has not been corrected, the anticipated time it is expected to continue; and steps taken or planned to reduce, eliminate and prevent reoccurrence of the bypass.
3. *Prohibition of Bypass.*
  - a. Bypass is prohibited and enforcement action against the permittee may be taken for the bypass unless:
    - i. The bypass was unavoidable to prevent loss of life, personal injury or severe property damage;
    - ii. The permittee submitted notices as required in paragraphs P.1. and P.2. above.
  - b. The Director may approve an unanticipated bypass after considering its adverse effects, if the Director determines that it will meet the two conditions in paragraph P.3.a. above.

Q. Upset Conditions

1. An upset constitutes an affirmative defense to an action brought for non-compliance with technology based permit limitations if the requirements of paragraph 2 below are met. No determination made during administrative review of claims that noncompliance was caused by upset, and before an action for noncompliance, is final administrative action subject to judicial review.
  2. A permittee who wishes to establish an affirmative defense of an upset shall demonstrate, through properly signed, contemporaneous operating logs, or other relevant evidence, that:
    - a. An upset occurred and the permittee can identify the specific causes(s) of the upset;
    - b. The permittee facility was at the time being properly operated;
    - c. The permittee submitted notice of the upset as required in Rule 14.08 of the RIPDES Regulations; and
    - d. The permittee complied with any remedial measures required under Rule 14.05 of the RIPDES Regulations.
  3. In any enforcement proceeding the permittee seeking to establish the occurrence of an upset has the burden of proof.
- R. Inspection and Entry. The permittee shall allow the Director, upon the presentation of credentials and other documents as may be required by law, to:
1. Enter upon the permittee's premises where a regulated activity is conducted, or where records must be kept under the conditions of this permit;
  2. Have access to and copy, at reasonable times, any records that must be kept under the conditions of this permit;
  3. Inspect at reasonable times any equipment, practices, or operations regulated or required under this permit; and
  4. Sample or monitor any substances or parameters at any location, at reasonable times, for the purposes of assuring permit compliance or as otherwise authorized by the CWA or R.I. law.
- S. Permit Actions. This permit may be modified, revoked and reissued, or terminated for cause, including but not limited to: violation of any terms or conditions of this permit; obtaining this permit by misrepresentation or failure to disclose all relevant facts; or a change in any condition that requires either a temporary or permanent reduction or elimination of the authorized discharge. The filing of a request by the permittee for a permit modification, revocation and reissuance, or termination, or a notification of planned changes or anticipated noncompliance does not stay any permit condition.
- T. Requiring an Individual Permit or an Alternative General Permit
1. The Director of the Department of Environmental Management (DEM) may require any owner or operator authorized to discharge stormwater under this permit to apply for and obtain either an individual or an alternative RIPDES general permit. Any interested person may petition the Director to take action under this paragraph. The Director may determine at his or her own discretion that an individual or an alternative general permit is required (see RIPDES Rule 32 for reasons why an

alternative permit may be required).

2. Any owner or operator authorized to discharge stormwater by this permit may request to be excluded from coverage of this permit by applying for coverage under an individual permit or an alternative general permit. The request shall be granted by the issuance of an individual permit only if the reasons cited by the owner or operator are adequate to support the request. The Director shall notify the permittee within a timely fashion as to whether or not the request has been granted.
3. If a facility requests or is required to obtain coverage under an individual or an alternative general permit, then authorization to discharge stormwater under this permit shall automatically be terminated on the date of issuance of the individual or the alternative general permit. Until such time as an alternative permit is issued, the existing general permit remains fully in force.

U. Reopener Clause

1. If there is evidence indicating potential or realized impacts on water quality due to any stormwater discharge associated with construction covered by this permit, the owner or operator of such discharge may be required to obtain an individual permit or alternative general permit in accordance with Part V.T. of this permit or the permit may be modified to include different limitations and/or requirements.
2. Permit modification or revocation will be conducted in accordance with 40 CFR 122.62, 122.63, 122.64 and 124.5.

V. Availability of Reports. Except for data determined to be confidential under Part W.1. below, all reports prepared in accordance with the terms of this permit shall be available for public inspection at the DEM at 235 Promenade Street, Providence, Rhode Island. As required by the CWA, effluent data shall not be considered confidential. Knowingly making any false statement on any such report may result in the imposition of criminal penalties as provided for in Section 309 of the CWA and under Chapter 46-12-14 of the Rhode Island General Laws.

W. Confidentiality of Information

1. Any information submitted to DEM pursuant to these regulations may be claimed as confidential by the submitter, consistent with Rhode Island General Law 38-2-2. Any such claim must be asserted at the time of the submission in the manner prescribed on the application form or instructions or, in the case of other submissions, by stamping the words "confidential business information" on each page containing such information. If no claim is made at the time of submission, DEM may make the information available to the public without further notice.
2. Claims of confidentiality for the following information will be denied:
  - a. The name and address of any permit application or permittee;
  - b. Permit applications, permits and any attachments thereto; and
  - c. RIPDES effluent data.

- X. Right to Appeal. Within thirty (30) days of receipt of notice of final authorization, the permittee or any interested person may submit a request to the Director for an adjudicatory hearing to reconsider or contest that decision. The request for a hearing must conform to the requirements of Rule 49 of the RIPDES Regulations.

## **SUMMARY OF SIGNIFICANT CHANGES TO THE RIPDES CONSTRUCTION GENERAL PERMIT**

Several significant changes from the previous (2008) General Permit for Construction Activities have been incorporated into the draft 2013 Permit. The Permit has been amended to be consistent with the 2010 *Rhode Island Stormwater Design and Installation Standards Manual* (RISDISM), to incorporate the 2009 EPA Federal effluent limitation guidelines (ELGs) and new source performance standards (NSPS) for the Construction and Development Point Source Category, and to streamline the permit application and authorization process. This document is not a comprehensive list of all edits and changes that have been made to the 2008 permit in the 2013 permit. Please carefully review the actual documents for this level of detail. The most significant changes are listed below:

1. Part I.B.1.a the following language was deleted If a construction site is within the jurisdiction of a Qualifying Local Program (QLP), and the operator of the construction activity is not required to obtain a RIDEM Freshwater Wetlands Permit, Coastal Resources Management Council (CRMC) permit, or a RIDEM Water Quality Certification, the operator must apply for QLP approval unless the operator is a Federal or State agency that has obtained RIPDES permit authorization from the Department. For sites requiring QLP approval, all conditions of this permit apply, with the exception of Parts V.L. and V.T. This permit does not pre-empt or supersede or expand the authority of local agencies to prohibit, restrict, or control discharges of storm-water to storm drains or other water courses within their jurisdiction;
2. Part I.B.2 Allowable non-stormwater discharges was amended to be consistent with allowable non-stormwater discharges in the RIPDES MSGP and MS4 permits.
3. Part I.B.3.c Limitations on Coverage has been modified and Part 1.B.3.d was added to reflect the requirements applicable to discharges to impaired waterbodies with or without a TMDL as specified in RISDISM Minimum Standard 3: Water Quality.
4. Part I.C. was amended to add a definition of owner/operator.
5. In order to align the permit requirements with the 2010 RISDISM which became effective in December 2010:
  - a. Part I.D. *Authorization* was amended to reflect application and permit streamlining in the Office of Water Resources and CRMC permitting programs since the issuance of the RISDISM.

The revised permit reduces the need for multiple applications to State Agencies by adding the Underground Injection Control (UIC) and Ground Permit to the list of permits that also serve as RIPDES permits and eliminates the requirement for activities in CRMC and WQC jurisdiction to submit an application to RIPDES.

This section was also re-organized to have separate sections for application requirements, deadlines to request authorization and a clear description of how and when projects will obtain authorization.

Owners and operators of construction activities that disturb greater than one (1) acre whose projects were previously authorized under the 2008 Construction Activity General Permit that obtained a RIDEM Freshwater Wetlands Permit, RIDEM Water Quality Certification, RIDEM UIC/Ground Permit, RI CRMC Assent or QLP approval are not required to re-apply in order to continue to be authorized under this permit. Owners and operators of construction activities that disturb greater than one (1) acre whose projects were previously authorized under the 2008 Construction Activity General Permit that did not obtain one of the above-mentioned permits are required to submit a NOI to continue to be authorized.

If your project was previously authorized under the 2008 Construction General Permit your Stormwater Management Plan must only be revised as necessary to comply with Part II.B of this permit. The Stormwater Management Plan shall be modified to comply with Part II.B within sixty (60) days of the effective date of this permit. A Stormwater Pollution Prevention Plan (SWPPP) developed under the previous (2008) construction general permit may serve to satisfy Part III of this permit, provided it adequately addresses all new requirements.

For new applications, submittal of a NOI is only required for construction activities that disturb greater than one (1) acre that are not required to obtain a RIDEM Freshwater Wetlands Permit, RIDEM Water Quality Certification, RIDEM UIC/Ground Permit, CRMC Assent or QLP approval.

Application requirements for Construction activities that disturb an area equal to or greater than one (1) acre and less than five (5) acres were amended to include a project narrative and site plan/map showing flow paths, discharges, and receiving waters with the a complete NOI form.

- b. Part II. *Permit Limits and Conditions*, Part A. was amended to clarify that a Stormwater Management Plan consistent with the RISDISM must be developed for each construction project seeking coverage under this permit and provides an outline of the three (3) elements of a Stormwater Management Plan: 1) Stormwater Site Planning, Analysis, and Design, 2) Soil Erosion, Runoff, and Sediment Control, and 3) Post Construction Operation and

Maintenance. In cases where a project was previously authorized under the 2008 Construction General Permit the Stormwater Management Plan only has to be revised as necessary to comply with Part II.B (Soil Erosion, Runoff, and Sediment Control) within 60 days of the effective date of this permit. A Stormwater Pollution Prevention Plan (SWPPP) developed under the previous (2008) construction general permit may serve to satisfy Part III (Soil Erosion and Sediment Control Plan Requirements) of this permit, provided it adequately addresses all new requirements.

- c. Part II *Permit Limit and Conditions* has also been amended to refer to Minimum Standard 10 – Construction Erosion and Sedimentation Control and Minimum Standard 11: Operation and Maintenance and Minimum Standard 7: Pollution Prevention of the RISDISM.
  - d. Part III. *SOIL EROSION AND SEDIMENT CONTROL (SESC) PLAN REQUIREMENTS* has been amended to change the name of the plan required to address pollution associated with construction activity from a Stormwater Pollution Prevention Plan to a Soil Erosion and Sediment Control Plan. This name change has been made to better align the permit with the requirements of the RISDISM. Part III B requires measures to be designed, implemented and maintained in accordance with the RI Soil Erosion and Sediment Control (RISESC) Handbook in order to be consistent with Standard 10 of the RISDISM which also contains this requirement.
6. The Soil Erosion and Sediment Control Plan (SESC Plan) (formerly known as a Stormwater Pollution Prevention Plan) has undergone some minor enhancements to be consistent with the RISDISM and the RISESC Handbook. The SESC Plan as required by Part III of the general permit must address :
- a. The required elements of SESC Plans are specifically listed in Part III.J of the permit and additional guidance has been included to better clarify the intent of these required elements.
  - b. More prescriptive installation and maintenance requirements have been established for storm drain inlets and perimeter controls and sediment barriers (see Part III.J.1.d and f, respectively).
  - c. Clearer maintenance requirements have been established in the draft permit to ensure that work is initiated to fix a problem immediately after it is discovered, and that the owner/operator complete such work by the close of the next work day, if the control practice problem does not require significant repair or replacement, or if the problem can be corrected through routine maintenance.
  - d. The requirements for pollution prevention and good housekeeping have been re-organized in Part III.J.2 of the permit entitled “Construction Activity Pollution Prevention Requirements”.

7. On December 1, 2009, EPA published in the Federal Register (74 FR 62995) effluent limitation guidelines (ELGs) and new source performance standards (NSPS) for the Construction and Development Point Source category. These requirements are referred to as “the C&D rule”. The required narrative standards contained in the C&D rule have been incorporated into this draft permit either directly as specific permit requirements or by reference to relevant design and guidance documents already in existence. Rule 15 of the RI Water Quality Regulations addresses procedures for the review of applications, and states that in consideration of an application the Department may use but is not limited to, a variety of design documents including: the *Rhode Island Soil Erosion and Sediment Control (RISESC) Handbook* (as amended) and the *Rhode Island Stormwater Design and Installation Standards Manual (RISDISM)* (as amended). In addition, a specific permit requirement has been added which requires control measures to be designed, implemented, and maintained in accordance with these two design documents. Listed below in *italics* are each of the C&D rule narrative requirements and a description of how these requirements have been addressed in the draft permit:

- a. *Erosion and Sediment Controls. Design, install and maintain effective erosion controls and sediment controls to minimize the discharge of pollutants. At a minimum, such controls must be designed, installed and maintained to:*
  - i. *Control stormwater volume and velocity within the site to minimize soil erosion in order to minimize pollutant discharges.* This narrative requirement is addressed through required compliance with in RISDISM Minimum Standard 10 – Construction Erosion and Sedimentation Control.
  - ii. *Control stormwater discharges, including both peak flowrates and total stormwater volume, to minimize channel and streambank erosion in the immediate vicinity of discharge points.* This narrative requirement is addressed through required compliance with RISDISM Minimum Standard 10 – Construction Erosion and Sedimentation Control.
  - iii. *Minimize the amount of soil exposed during construction activity.* This narrative requirement is addressed through required compliance with RISDISM Minimum Standard 1, Low Impact Development Site Planning and Design Strategies, Section 3.3.1.3, Appendix A Checklist 1.D. Locating Sites in Less Sensitive Areas, and Section 4.5.1 that require that land disturbance be minimized.
  - iv. *Minimize the disturbance of steep slopes.* This narrative requirement is addressed through required compliance with RISDISM Minimum Standard 1, Low Impact Development Site Planning and Design Strategies, Section 3.3.1.3 and Appendix A Checklist 1.D Locating Sites

in Less Sensitive Areas, and Section 4.5.1 Avoid the Impacts which requires that development on steep slopes be avoided to the maximum extent practicable.

- v. *Minimize sediment discharges from the site. The design, installation, and maintenance of erosion and sediment controls must address factors such as the amount, frequency, intensity and duration of precipitation, the nature of resulting stormwater runoff, and soil characteristics, including the range of soil particle sizes expected to be present on the site.* This narrative requirement is addressed through required compliance with RISDISM Minimum Standard 10 – Construction Erosion and Sedimentation Control.
  
- vi. *Provide and maintain natural buffers around waters of the United States, direct stormwater to vegetated areas and maximize stormwater infiltration to reduce pollutant discharges, unless infeasible.* This narrative requirement is addressed through the DEM Freshwater Wetlands regulations and Coastal Resources Management Council regulations for inland and coastal buffers. These Regulations also require compliance with RISDISM Minimum Standard 1, Low Impact Development (LID) Site Planning and Design Strategies and Section 4.5 LID Site Planning and Design Criteria which requires applicants to maximize the protection of natural drainage areas, streams, surface waters, and jurisdictional wetland buffers. Section 4.5.1 Avoid the Impacts, also requires the preservation of buffers and floodplains by delineating and preserving naturally vegetated riparian buffers and floodplains and implementing measures to ensure that buffers and native vegetation are protected throughout planning, design, construction, and occupancy.
  
- vii. *Minimize soil compaction. Minimizing soil compaction is not required where the intended function of a specific area of the site dictates that it can be compacted. Unless infeasible, preserve topsoil. Preserving topsoil is not required where the intended function of a specific area of the site dictates that the topsoil be disturbed or removed.* These narrative requirements are addressed through required compliance with RISDISM Minimum Standard 1, LID Site Planning and Design Strategies. Section 3.3.1 LID Site Planning and Design Criteria requires the minimization of soil compaction and restoration of soils compacted as a result of construction activities or prior development. In addition, Appendix B of the RISDISM, General Planting Guidance for LID Practices specifically requires that whenever possible, topsoil should be spread to a depth of four inches (two inch minimum) over the entire area to be planted.

b. Soil Stabilization. *Stabilization of disturbed areas must, at a minimum, be*

*initiated immediately whenever any clearing, grading, excavating, or other earth disturbing activities have permanently ceased on any portion of the site, or temporarily ceased on any portion of the site and will not resume for a period exceeding 14 calendar days. In arid, semiarid, and drought-stricken areas where initiating vegetative stabilization measures immediately is infeasible, alternative stabilization measures must be employed as specified by the permitting authority. Stabilization must be completed within a period of time determined by the permitting authority. In limited circumstances, stabilization may not be required if the intended function of a specific area of the site necessitates that it remain disturbed. This narrative requirement is addressed directly by a specific permit requirement in Part III.J.1.c.*

- c. Dewatering. Discharges from dewatering activities, including discharges from dewatering of trenches and excavations, are prohibited unless managed by appropriate controls. This narrative requirement is addressed directly by a specific permit requirement in Part III.J.2.f of the Soil Erosion and Sediment Control Plan requirements.*
  
- d. Pollution Prevention Measures. Design, install, implement, and maintain effective pollution prevention measures to minimize the discharge of pollutants. At a minimum, such measures must be designed, installed, implemented and maintained to:*
  - i. Minimize the discharge of pollutants from equipment and vehicle washing, wheel wash water, and other wash waters. Wash waters must be treated in a sediment basin or alternative control that provide equivalent or better treatment prior to discharge;*
  
  - ii. Minimize the exposure of building materials, building products, construction wastes, trash, landscape materials, fertilizers, pesticides, herbicides, detergents, sanitary waste and other materials present on the site to precipitation and stormwater. Minimization of exposure is not required in cases where the exposure to precipitation and to stormwater will not result in a discharge of pollutants, or where exposure of a specific material or product poses little risk of stormwater contamination (such as final products and materials intended for outdoor use).*
  
  - iii. Minimize the discharge of pollutants from spills and leaks and implement chemical spill and leak prevention and response procedures.*

These narrative requirements are addressed directly by specific permit requirements in Part III.J.2.c & d of the Soil Erosion and Sediment Control Plan requirements entitled: Construction Activity Pollution Prevention Requirements, Proper Waste Disposal and Spill Prevention and Control, respectively.

e. Prohibited Discharges. *The following discharges are prohibited:*

- iv. *Wastewater from washout of concrete, unless managed by an appropriate control;*
- v. *Wastewater from washout and cleanout of stucco, paint, form release oils, curing compounds and other construction materials;*
- vi. *Fuels, oils, or other pollutants used in vehicle and equipment operation and maintenance; and*
- vii. *Soaps or solvents used in vehicle and equipment washing*

These narrative requirements are addressed directly by specific permit requirements in Part III.J.2.a of the Soil Erosion and Sediment Control Plan requirements, Prohibited Discharges.

f. Surface Outlets. *When discharging from basins and impoundments, utilize outlet structures that withdraw water from the surface, unless infeasible.* This narrative requirement is addressed directly by specific permit requirements in Part III.J.1.i of the Soil Erosion and Sediment Control Plan requirements.

**FACT SHEET**  
**RHODE ISLAND POLLUTANT DISCHARGE ELIMINATION SYSTEM**  
**STORMWATER DISCHARGE ASSOCIATED WITH CONSTRUCTION ACTIVITY**  
**(Revised September 2013)**

**BACKGROUND**

In 1987, amendments to the CWA added Section 402(p), which set up the framework to regulate stormwater under the National Pollutant Discharge Elimination System (NPDES) program. In 1990, EPA issued final regulations that established application requirements for stormwater permits. These regulations require owners or operators of specific categories of industrial activities (see 40 CFR 122.26(b)(14)), which discharge stormwater directly to the waters of the United States, or indirectly through a separate storm sewer system, via a point source conveyance to obtain a NPDES stormwater permit. Construction activities that disturb at least five acres of land and have point source discharges to waters of the United States are included as an "industrial activity (see 40 CFR 122.26(b)(14)(x)). On December 8, 1999, EPA issued the Phase II final regulations, which require permit applications for point source stormwater discharges from small construction activities resulting from land disturbances greater than or equal to one acre and less than five acres (small construction activity is defined in 40 CFR 122.26(b)(15)(i)).

As an EPA delegated state, Rhode Island is authorized to issue individual or general permits under the Rhode Island Pollutant Discharge Elimination System (RIPDES) to cover discharges of industrial stormwater and small construction activity. In 1993, RIDEM's Office of Water Resources (OWR) developed a state wide General Permit to cover stormwater discharges from construction sites, which disturb five acres or more of land. The Department reissued this general permit on September 9, 2003, with changes to authorize stormwater discharges from construction sites which disturb one or more acres of land. Again in September 2008 the Department reissued this general permit in order to continue to be able to issue authorizations to discharge stormwater from construction sites which disturb one or more acres of land.

At this time the Department is proposing to reissue a draft General Permit to continue authorization of stormwater discharges from construction sites which disturb one or more acres of land. The requirements set forth in this permit are from the State's Water Quality Regulations and the State's Regulations for the Rhode Island Pollutant Discharge Elimination System, both filed pursuant to RIGL Chapter 46-12, as amended. The Office has determined that all permit limitations are consistent with the Rhode Island Antidegradation policy. The final effluent limitations, permit conditions, monitoring and reporting requirements may be found in the permit. The general and specific conditions of the permit are based on the RIPDES regulations as well as 40 CFR Parts 122 through 125 and consist primarily of management requirements common to all permits.

On December 1, 2009, EPA published in the Federal Register (74 FR 62995) effluent limitation guidelines (ELGs) and new source performance standards (NSPS) for the Construction and Development Point Source category. These requirements are referred to as "the C&D rule".

States, including Rhode Island, are required to incorporate requirements consistent with the new EPA C&D rule requirements, or narrative standards, into any reissued NPDES construction stormwater permits. The required narrative standards contained in the C&D rule have been incorporated into this draft permit either directly as specific permit requirements or by reference to relevant design and guidance documents already in existence. Rule 15 of the RI Water Quality Regulations addresses procedures for the review of applications, and states that in consideration of an application the Department may use but is not limited to, a variety of design documents including: the *Rhode Island Soil Erosion and Sediment Control (RISESC) Handbook* (as amended) and the *Rhode Island Stormwater Design and Installation Standards Manual (RISDISM)* (as amended). In addition, a specific permit requirement has been added which requires control measures to be designed, implemented, and maintained in accordance with these two design documents.

The draft permit proposed will be effective for a five year period, the maximum allowable under Federal NPDES Rules

For all construction activities required to submit a Notice of Intent (NOI) to RIPDES (see Part I.D of the Permit), the owner and/or operator must fill out and submit a standardized NOI form to:

RI Department of Environmental Management  
Office of Water Resources – RIPDES Permitting Program  
235 Promenade Street  
Providence, RI 02908

To terminate coverage under this Permit at the end of a project, an owner and/or operator must submit a completed standardized Notice of Termination (NOT) form to the same address in accordance with Part I.E of the permit. Upon DEM receipt of the completed NOT, coverage under this general permit is terminated.

#### **AUTHORIZATION (Part I.D.)**

For Construction Activities that were authorized under the 2008 General Permit that are expected to continue beyond the expiration date of the 2008 permit, only activities that did not obtain a RIDEM Freshwater Wetlands Permit, RIDEM Water Quality Certification, RIDEM UIC/Ground Permit, CRMC Assent or QLP approval must submit an NOI within sixty (60) days of the effective date of this Permit to continue coverage and will be authorized upon re-submittal of the NOI.

Construction Activities previously authorized under the 2008 Construction Activity General Permit that are expected to continue beyond the expiration date of the 2008 permit that have an active RIDEM Freshwater Wetlands Permit, RIDEM Water Quality Certification, RIDEM UIC/Ground Permit, CRMC Assent or QLP approval are not required to re-submit a NOI and will be authorized upon the effective date of the permit.

All previously authorized projects must modify their existing Stormwater Management Plan to comply with Part II.B *Soil Erosion, Runoff, and Sediment Control* of this permit within sixty (60)

days of the effective date in order to maintain permit coverage.

All previously authorized projects that discharge to impaired waters with or without an approved TMDL or other water quality determination and have maintained coverage under the 2008 permit (e.g. timely re-application to RIPDES or a RIDEM Freshwater Wetlands Permit, RIDEM Water Quality Certification, RIDEM UIC/Ground Permit, CRMC Assent or QLP approval that remains in effect), are eligible for coverage and are not required to modify their existing Stormwater Management Plan except as mentioned above.

For construction activities that commence after the effective date of this Permit and are required to submit an NOI to RIPDES (see Part I.D of the Permit), the NOI must be submitted at least thirty (30) days prior to the commencement of land disturbing activities. Authorization will be granted in accordance with Part I.D.3.

Regardless of the means of obtaining approval, the permittee is still responsible for complying with all terms and conditions of this permit and any other applicable State, local and/or federal regulations. The Department will be held harmless for any failure of the permittee to comply with this Permit. Regardless of whether or not the NOI is reviewed by this Office, the permittee is responsible for complying with all terms and conditions of this permit and any other applicable State or federal regulations.

## **PERMIT LIMITS AND CONDITIONS (Part II)**

### Water Quality Based Effluent Limits:

Part I.B.3.c. and d. of the Permit requires that in order to be eligible for authorization, activities that discharge Stormwater associated with construction to impaired waters identified in the latest State of Rhode Island 303(d) List of Impaired Waters, must implement a Stormwater Management Plan in accordance with the RISWDISM that addresses the Stormwater Management Standards applicable to new and redevelopment and the pollutant(s) of concern. If the site will discharge into any water for which there is an EPA approved or established Total Maximum Daily Load (TMDL) or other water quality determination, the Stormwater Management Plan must incorporate measures or controls that are consistent with the assumptions and requirements of the TMDL.

### 2009 effluent limitation guidelines (ELGs) and new source performance standards (NSPS):

The Permit has been amended to incorporate the 2009 EPA Federal effluent limitation guidelines (ELGs) and new source performance standards (NSPS) for the Construction and Development Point Source Category.

Listed below in *italics* are each of the C&D rule narrative requirements and a description of how these requirements have been addressed in the draft permit:

- a. *Erosion and Sediment Controls. Design, install and maintain effective erosion controls and sediment controls to minimize the discharge of pollutants. At a minimum, such controls must be designed, installed and maintained to:*
- i. *Control stormwater volume and velocity within the site to minimize soil erosion in order to minimize pollutant discharges.* This narrative requirement is addressed through compliance with RISDISM Minimum Standard 10 – Construction Erosion and Sedimentation Control.
  - ii. *Control stormwater discharges, including both peak flowrates and total stormwater volume, to minimize channel and streambank erosion in the immediate vicinity of discharge points.* This narrative requirement is addressed through compliance with RISDISM Minimum Standard 10 – Construction Erosion and Sedimentation Control.
  - iii. *Minimize the amount of soil exposed during construction activity.* This narrative requirement is addressed through compliance with RISDISM Minimum Standard 1, Low Impact Development Site Planning and Design Strategies, Section 3.3.1.3., Appendix A Checklist 1.D. Locating Sites in Less Sensitive Areas and Section 4.5.1 that require that land disturbance be minimized.
  - iv. *Minimize the disturbance of steep slopes.* This narrative requirement is addressed through compliance with RISDISM Minimum Standard 1, Low Impact Development Site Planning and Design Strategies, Section 3.3.1.3 and Appendix A Checklist 1.D. Locating Sites in Less Sensitive Areas, and Section 4.5.1 Avoid the Impacts that require that Development on Steep Slopes avoided to the maximum extent practicable.
  - v. *Minimize sediment discharges from the site. The design, installation, and maintenance of erosion and sediment controls must address factors such as the amount, frequency, intensity and duration of precipitation, the nature of resulting stormwater runoff, and soil characteristics, including the range of soil particle sizes expected to be present on the site.* This narrative requirement is addressed through compliance with RISDISM Minimum Standard 10 – Construction Erosion and Sedimentation Control.
  - vi. *Provide and maintain natural buffers around waters of the United States, direct stormwater to vegetated areas and maximize stormwater infiltration to reduce pollutant discharges, unless infeasible.* This narrative requirement is addressed through the DEM Freshwater Wetlands regulations and Coastal Resources Management Council regulations for inland and coastal buffers. These Regulations also require compliance with RISDISM Minimum Standard 1, Low Impact Development (LID) Site Planning and Design Strategies and Section 4.5 LID Site Planning and Design Criteria which requires applicants to maximize the protection of natural drainage areas, streams, surface waters,

and jurisdictional wetland buffers. Section 4.5.1 Avoid the Impacts, also requires the preservation of buffers and floodplains by delineating and preserving naturally vegetated riparian buffers and floodplains and implementing measures to ensure that buffers and native vegetation are protected throughout planning, design, construction, and occupancy.

- vii. *Minimize soil compaction. Minimizing soil compaction is not required where the intended function of a specific area of the site dictates that it can be compacted. Unless infeasible, preserve topsoil. Preserving topsoil is not required where the intended function of a specific area of the site dictates that the topsoil be disturbed or removed.* These narrative requirements are addressed through compliance with RISDISM. Minimum Standard 1, LID Site Planning and Design Strategies, Section 3.3.1.4 LID Site Planning and Design Criteria that requires the minimization of soil compaction and restoration of soils compacted as a result of construction activities or prior development. In addition, Appendix B of the RISDISM, General Planting Guidance for LID Practices specifically requires that whenever possible, topsoil should be spread to a depth of four inches (two inch minimum) over the entire area to be planted.
  
- b. *Soil Stabilization. Stabilization of disturbed areas must, at a minimum, be initiated immediately whenever any clearing, grading, excavating, or other earth disturbing activities have permanently ceased on any portion of the site, or temporarily ceased on any portion of the site and will not resume for a period exceeding 14 calendar days. In arid, semiarid, and drought-stricken areas where initiating vegetative stabilization measures immediately is infeasible, alternative stabilization measures must be employed as specified by the permitting authority. Stabilization must be completed within a period of time determined by the permitting authority. In limited circumstances, stabilization may not be required if the intended function of a specific area of the site necessitates that it remain disturbed.* This narrative requirement is addressed directly by a specific permit requirement in Part III.J.1.c.
  
- c. *Dewatering. Discharges from dewatering activities, including discharges from dewatering of trenches and excavations, are prohibited unless managed by appropriate controls.* This narrative requirement is addressed directly by a specific permit requirement in Part III.J.2.f of the Soil Erosion and Sediment Control Plan requirements.
  
- d. *Pollution Prevention Measures. Design, install, implement, and maintain effective pollution prevention measures to minimize the discharge of pollutants. At a minimum, such measures must be designed, installed, implemented and maintained to:*
  - i. *Minimize the discharge of pollutants from equipment and vehicle washing, wheel wash water, and other wash waters. Wash waters must be treated in a sediment basin or alternative control that provide equivalent or better treatment prior to discharge;*

- ii. *Minimize the exposure of building materials, building products, construction wastes, trash, landscape materials, fertilizers, pesticides, herbicides, detergents, sanitary waste and other materials present on the site to precipitation and stormwater. Minimization of exposure is not required in cases where the exposure to precipitation and to stormwater will not result in a discharge of pollutants, or where exposure of a specific material or product poses little risk of stormwater contamination (such as final products and materials intended for outdoor use).*
- iii. *Minimize the discharge of pollutants from spills and leaks and implement chemical spill and leak prevention and response procedures.*

These narrative requirements are addressed directly by specific permit requirements in Part III.J.2.c&d of the Soil Erosion and Sediment Control Plan requirements entitled: Construction Activity Pollution Prevention Requirements, Proper Waste Disposal and Spill Prevention and Control respectively.

- e. Prohibited Discharges. *The following discharges are prohibited:*
  - iv. *Wastewater from washout of concrete, unless managed by an appropriate control;*
  - v. *Wastewater from washout and cleanout of stucco, paint, form release oils, curing compounds and other construction materials;*
  - vi. *Fuels, oils, or other pollutants used in vehicle and equipment operation and maintenance; and*
  - vii. *Soaps or solvents used in vehicle and equipment washing*

These narrative requirements are addressed directly by specific permit requirements in Part III.J.2.a of the Soil Erosion and Sediment Control Plan requirements, Prohibited Discharges.

- f. Surface Outlets. *When discharging from basins and impoundments, utilize outlet structures that withdraw water from the surface, unless infeasible.* This narrative requirement is addressed directly by specific permit requirements in Part III.J.1.i of the Soil Erosion and Sediment Control Plan requirements.

## **SOIL EROSION AND SEDIMENT CONTROL (SESC) PLAN REQUIREMENTS (Part III)**

The Soil Erosion and Sediment Control (SESC) Plan shall describe and ensure the implementation of stormwater control measures which are to be used to reduce or eliminate pollutants in stormwater discharge(s) from the site and assure compliance with the terms and conditions of this permit. Control practice selection shall include an evaluation of the effectiveness of available practices and be made with proper references.

Soil erosion, runoff, sediment, and pollution prevention control measures must be designed, implemented, and maintained in accordance with the requirements of this permit and in accordance with the design specifications and guidance contained in the *Rhode Island Soil Erosion and Sediment Control (RISESC) Handbook* (as amended) and the *Rhode Island Stormwater Design and Installation Standards Manual (RISDISM)* (as amended).

Part III. J. 1. contains the following Erosion, Runoff, and Sediment Control Requirements:

- 1) Phase Construction Activity
- 2) Control Stormwater Flowing Onto and Through the Project
- 3) Stabilize Soils
- 4) Protect Storm Drain Inlets
- 5) Protect Storm Drain Outlets
- 6) Establish Perimeter Controls and Sediment Barriers
- 7) Establish Temporary Controls For The Protection of Post Construction Stormwater Practices
- 8) Temporary Sediment Trapping and Temporary Stormwater Conveyance Practices
- 9) Utilize Surface Outlets
- 10) Properly Use Treatment Chemicals

Part III. J. 2. contains the following Construction Activity Pollution Prevention Requirements:

- 1) Prohibited Discharges
- 2) Minimize Off-Site Tracking of Sediments
- 3) Proper Waste Disposal
- 4) Spill Prevention and Control
- 5) Control of Allowable Non-Stormwater Discharges
- 6) Control Dewatering Practices
- 7) Establish Proper Building Material Staging Areas
- 8) Control Discharges from Stockpiled Sediment or Soil
- 9) Minimize Dust
- 10) Designate Washout Areas
- 11) Establish Proper Equipment/Vehicle Fueling and Maintenance Practices

Part III.J.3 contains the following Control Practice Installation, Inspection, and Maintenance Requirements:

- 1) Installation Requirements - Complete the installation of temporary erosion, runoff, sediment, and pollution prevention control measures by the time each phase of earth-disturbance has begun. All stormwater controls must be installed in accordance with good engineering practices, including applicable design specifications. Design specifications may be found in manufacturer specifications and/or the *Rhode Island Soil Erosion and Sediment Control (RISESC) Handbook* (as amended).
- 2) Inspection Requirements : Sites must be inspected by or under the supervision of

the owner and operator at least once every seven (7) calendar days and within twenty-four (24) hours after any storm event which generates at least 0.25 inches of rainfall per twenty-four (24) hour period and/or after a significant amount of runoff.

- 3) Maintenance Requirements – Site owners and operators must ensure that all erosion, runoff, sediment, and pollution prevention controls remain in effective operating condition and are protected from activities that would reduce their effectiveness.

Part III.J.4 outlines the contents of Site Plan Requirements

Part IV. outlines the Notice of Intent Requirements

### CHANGES IN THIS PERMIT

The Permit has been amended to be consistent with the 2010 *Rhode Island Stormwater Design and Installation Standards Manual* (RISDISM), to incorporate the 2009 EPA effluent limitation guidelines (ELGs) and new source performance standards (NSPS), and to streamline the Application and Authorization process. A detailed summary of changes can be found on RIDEM's website at <http://www.dem.ri.gov/programs/benviron/water/permits/ripdes/index.htm>

### COMMENT PERIOD, HEARING REQUESTS, AND PROCEDURES FOR FINAL DECISIONS

All persons, including applicants, who believe any condition of the draft permit is inappropriate must raise all issues and submit all available arguments and all supporting material for their arguments in full by the close of the public comment period no later than 4:00 pm on September 13, 2013, to the Rhode Island Department of Environmental Management, Office of Water Resources, 235 Promenade Street, Providence, Rhode Island, 02908-5767.

Commenters may request a longer comment period if necessary to provide a reasonable opportunity to comply with these requirements. Comments should be directed to Rhode Island Department of Environmental Management, RIPDES Program Permitting Section - Office of Water Resources, 235 Promenade Street, Providence, RI 02908-5767. In reaching a final decision on the draft permit the Director will respond to all significant comments and make these responses available to the public at DEM's Providence Office.

Pursuant to Chapter 42-17.4 of the Rhode Island General Laws a public hearing has been scheduled to consider these permits **if requested**. Requests for a Public Hearing must be submitted in writing to the attention of Brian D. Lafaille at the address indicated above. Notice should be taken that **if DEM receives a request** from twenty-five (25) people, a governmental agency or subdivision, or an association having no less than twenty-five (25) members on or before 4:00 p.m., September 9, 2013, a public hearing will be held at the following time and place:

September 12, 2013 at 5:00 p.m.  
Room 280

235 Promenade Street  
Providence, Rhode Island 02908

Interested persons should contact DEM to confirm if a hearing will be held at the time and location noted above.

Following the close of the comment period, and after a public hearing, **if such hearing is held**, the Director will issue a final permit decision and forward a copy of the final decision to the applicant and each person who has submitted written comments or requested notice. Within thirty (30) days following the notice of the final permit decision any interested person may submit a request for a formal hearing to reconsider or contest the final decision. Requests for formal hearings must satisfy the requirements of Rule 49 of the Regulations for the Rhode Island Pollutant Discharge Elimination System.

### DEM CONTACTS

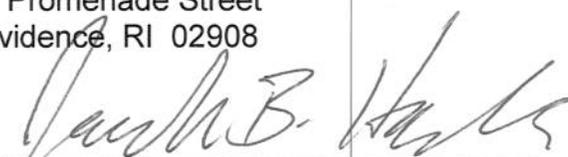
Additional information concerning the General Permit may be obtained by contacting Brian Lafaille, PE Senior Sanitary Engineer via email at [brian.lafaille@dem.ri.gov](mailto:brian.lafaille@dem.ri.gov) or by telephone at (401) 222-4700 ext. 7731, between the hours of 8:30 a.m. and 4:00 p.m., Monday through Friday, excluding holidays, or by writing to the Office at:

RI Department of Environmental Management  
Office of Water Resources – RIPDES Permitting Program  
235 Promenade Street  
Providence, RI 02908

Date

9/24/13

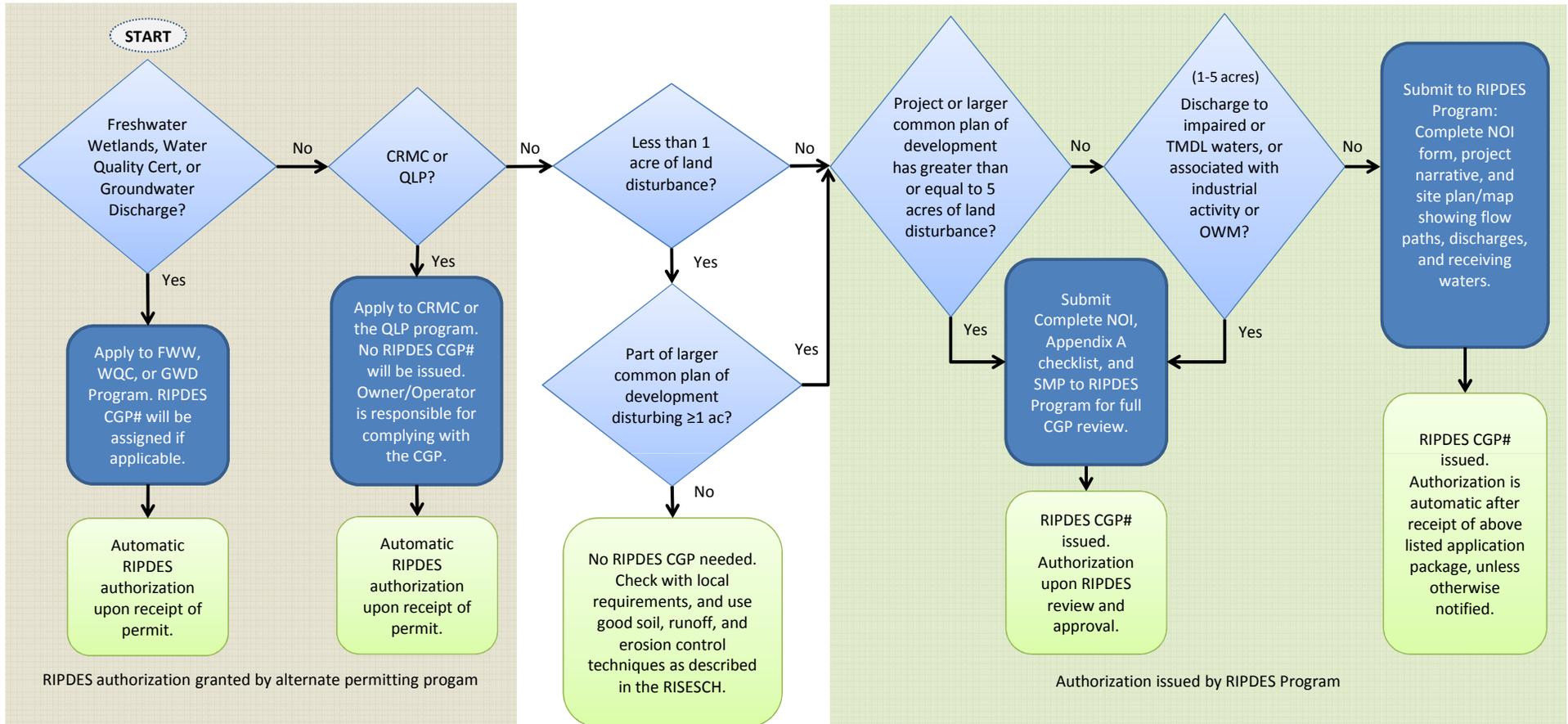
for

  
Eric A. Beck, PE  
Supervising Sanitary Engineer  
Permitting Section  
Office of Water Resources  
Department of Environmental Management



## Rhode Island Pollutant Discharge Elimination System (RIPDES) 2013 Construction General Permit (CGP) APPLICATION GUIDANCE

To whom and what to submit to obtain authorization from RIPDES to discharge stormwater associated with construction activity.



### ACRONYMS AND ABBREVIATIONS:

CGP - Construction General Permit (RIPDES)  
 CRMC - Coastal Resources Management Council  
 FWW - Freshwater Wetlands Program  
 GWD - Groundwater Discharge Program (includes UIC)  
 NOI - Notice of Intent (RIPDES permit application form)  
 NOT - Notice of Termination (RIPDES permit termination form)  
 OWM - Office of Waste Management (RIDEM)  
 QLP - Qualified Local Program

RIDEM - Rhode Island Department of Environmental Management  
 RIPDES - Rhode Island Pollutant Discharge Elimination System  
 RISDISM - Rhode Island Stormwater Design and Installation Standards Manual  
 RISESCH - Rhode Island Soil Erosion and Sediment Control Handbook  
 SMP - Stormwater Management Plan  
 TMDL - Total Maximum Daily Load  
 UIC - Underground Injection Control  
 WQC - Water Quality Certification Program

Permit applications to the RIPDES Program must be submitted at least **thirty (30) days prior** to the commencement of land disturbing activities, per Part I.D.2.b of the CGP entitled "Deadlines for Requesting Authorization."

Regardless of the permit issuing program, owners/operators must submit a **Notice of Termination (NOT)** form to the RIPDES Program upon completion of construction and final stabilization of all permitted project sites.



RHODE ISLAND  
DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

235 Promenade Street, Providence, RI 02908-5767

TDD 401-222-4462

Dear Applicant:

Section 46-12-15(b) of the Rhode Island General laws of 1956, Title 46, Chapter 12 entitled Water Pollution, as amended, prohibits the discharge of pollutants into waters of the State. The only exceptions are discharges in compliance with the terms and conditions of a Rhode Island Pollutant Discharge Elimination System (RIPDES) Permit issued in accordance with State Regulations.

Rule 31 of the RIPDES Regulations, requires permit coverage for construction sites disturbing equal to and greater than one acre, as well as sites less than one acre of total land area that are part of a larger common plan of development or sale if the larger common plan will ultimately disturb equal to or greater than one acre.

To request authorization under the General Permit for Stormwater Discharge Associated with Construction Activity, which was reissued and became effective on September 26, 2013, applicants must follow the submission requirements under Part I.D of the permit. Enclosed with this letter is a copy of the Construction General Permit Notice of Intent (NOI) Application Form. Provided all the required information is submitted and it is determined that a general permit is appropriate for the proposed site, authorization will be granted in accordance with Part I.D. of this permit. The 2013 Construction General Permit expires at midnight September 25, 2018.

A non-refundable application fee is due at the time the NOI is submitted to this office in the form of a check or money order, payable to the General Treasurer of the State of Rhode Island (**note: no fee if only an NOI is required to be submitted, \$400 fee if a NOI and a Stormwater Management Plan is required to be submitted**). The review for completeness of the application will not be made until the fee is paid. The check of money order and the attached Application(s) Fee Form must be submitted to:

Department of Environmental Management  
Office of Management Services  
235 Promenade Street  
Providence, RI 02908

Return the completed NOI form to:

Department of Environmental Management  
Office of Water Resources  
RIPDES Program  
235 Promenade Street  
Providence, RI 02908

Any questions about the General Permit or the NOI Form should be directed to the RIPDES Program Staff, Permitting Section at (401) 222-4700.

Sincerely,

Eric A. Beck, P.E.  
Supervising Sanitary Engineer



RHODE ISLAND POLLUTANT DISCHARGE  
ELIMINATION SYSTEM (RIPDES)  
**NOTICE OF INTENT (NOI)**  
STORMWATER GENERAL PERMIT FOR  
CONSTRUCTION ACTIVITY  
(Revised September 2013)

**DEM USE ONLY**

Date NOI Received \_\_\_\_\_  
Date Fee Received \_\_\_\_\_  
RIPDES#      RIR \_\_\_\_\_

<b>CHECK ONLY ONE ITEM</b>	<input type="checkbox"/> New Request for Permit Authorization
	<input type="checkbox"/> Re-Application for RIPDES Authorization No. RIR _____, which expires on September 25, 2013.
	<input type="checkbox"/> Amendment to RIPDES Authorization No. RIR _____.

**I. OWNER**

Name:			
Mailing Address:			
City:	State:	Zip:	Phone: (    )
Contact Person:	Title:		
Email Address of Contact Person:			
Billing Address (if different than above):			
City:	State:	Zip:	

**II. OPERATOR (if different from Owner)**

Name:			
Local Mailing Address:			
City:	State:	Zip:	Phone: (    )
Contact Person:	Title:		
Email Address of Contact Person:			

**III. CONSTRUCTION SITE INFORMATION**

Site's Official or Legal Name:			
Street Address:			
City:	State:	Zip:	Phone:
Latitude (to nearest 15 sec.) ____ Deg. ____ Min. ____ Sec.		Longitude (to nearest 15 sec.) ____ Deg. ____ Min. ____ Sec.	
Nearest Utility Pole Number:	Assessors Plat:	Lot:	

Is the construction site part of a larger common plan of development or sale?  YES  NO

List Name of Larger Common Plan: \_\_\_\_\_ Total Disturbed Acres of Common Plan \_\_\_\_\_ Acres

Projected or Actual Construction Commencement Date \_\_\_\_\_  
MM/DD/YY

Projected Construction Completion Date \_\_\_\_\_  
MM/DD/YY

---

Area of Site: Total Acres: \_\_\_\_\_ Proposed Area of Disturbance in Acres: \_\_\_\_\_

**IV. DISCHARGE LOCATION INFORMATION**

Note: If stormwater from the site discharges to a Combined Sewer Overflow a RIPDES authorization for the construction activity is not necessary, please confirm that the discharge will enter a combined sewer system with the appropriate sewer authority.

Separate Storm Sewer System (MS4) Name: \_\_\_\_\_

Unnamed stream or wetlands connected to named receiving water body. Name: \_\_\_\_\_

Ultimate Receiving Water Body Name: \_\_\_\_\_ Water Body ID#: \_\_\_\_\_

Is the receiving water body classified as a Cold or Warm Water Fishery?  Cold Water  Warm Water  Unassessed

Is the receiving water body on the most recent State of RI 303(d) List of Impaired Waters?

YES  NO

If yes, list any applicable impairments:

Is the Receiving Water(s) designated as a Special Resource Protection Water (SRPW)?  YES  NO

Has a TMDL been completed for the receiving water body?  YES  NO

If yes, list any applicable impairments:

Is the project associated with a DEM Office of Waste Management (OWM) site?  YES  NO ;

If yes, please describe and provide a DEM OWM contact:

\_\_\_\_\_

Is the proposed project associated with a previous permit application or enforcement action?  YES  NO ;

If yes, please describe: \_\_\_\_\_

---

Does the project meet the criteria for a Land Use with Higher Potential Pollutant Loads (LUHPPL) as defined by the RI Stormwater Design & Installation Standards Manual (as amended)?

YES  NO If yes, describe:

\_\_\_\_\_

---

Will the site require a separate permit for the proposed industrial activity under Rule 31(b)15 of the RIPDES Regulations?  YES  NO

If yes, describe:

\_\_\_\_\_

---

Is the site within or directly discharging to a Natural Heritage Area (NHA)?

YES  NO

**V. OWNER/OPERATOR CERTIFICATION**

I certify under penalty of law that this document and all attachments were prepared under the direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that if review of the Stormwater Management Plan is performed by the DEM RIPDES Permitting Program, Freshwater Wetlands Section, Water Quality Certification Program, the UIC/Ground Permit Program, Coastal Resources Management Council, or by a city/town which has adopted a DEM approved Soil Erosion and Sediment Control Ordinance, then a Stormwater Permit from this office is contingent upon approval from the reviewing agency. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. I am aware that it is the responsibility of the owner/operator to implement and amend the Soil Erosion and Sediment Control Plan as appropriate in accordance with the requirements of the General Permit.

Print Owner Name & Company \_\_\_\_\_

Print Owner Title \_\_\_\_\_

Signature \_\_\_\_\_ Date \_\_\_\_\_

Print Operator Name & Company \_\_\_\_\_

Print Operator Title \_\_\_\_\_

Signature \_\_\_\_\_ Date \_\_\_\_\_

**VI. PROFESSIONAL CERTIFICATION - NATURAL HERITAGE AREAS**

I certify under penalty of law that the Natural Heritage Area Information under Section IV of this NOI was prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete at the time this application is made. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Print Name of Professional & Company \_\_\_\_\_

Print Professionals Title\* \_\_\_\_\_

Registration or License Number \_\_\_\_\_

Signature \_\_\_\_\_ Date \_\_\_\_\_

\*Must be signed by a Registered Professional Engineer, a Certified Professional in Erosion and Sediment Control (CPESC), a Certified Professional in Storm Water Quality (CPSWQ), or a Registered Landscape Architect.

**VII. PROFESSIONAL CERTIFICATION - SOIL EROSION AND SEDIMENT CONTROL PLAN DEVELOPMENT**

Note: The purpose of this certification is to document that a site specific Soil Erosion and Sediment Control Plan was prepared consistent with the requirements of the General Permit. This certification by a professional does not alleviate or in any way limit the liability and sole responsibility of the Owner and Operator to properly implement the Soil Erosion and Sediment Control Plan and to amend the Soil Erosion and Sediment Control Plan as site conditions may require, so as to effectively control stormwater discharges leaving the site during the construction period.

I certify under penalty of law that a site specific Soil Erosion and Sediment Control Plan was prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for developing the Soil Erosion and Sediment Control Plan, the Soil Erosion and Sediment Control Plan is, to the best of my knowledge and belief, true, accurate, and complete at the time this certification is made and has been developed in accordance to the requirements of the Permit as well as all applicable guidelines in the *Rhode Island Soil Erosion and Sediment Control (RISESC) Handbook* (as amended) and the *Rhode Island Stormwater Design and Installation Standards Manual* (as amended). I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Print Name of Professional & Company \_\_\_\_\_

Print Professionals Title\* \_\_\_\_\_

Registration or License Number \_\_\_\_\_

Signature \_\_\_\_\_ Date \_\_\_\_\_

\*Must be signed by a Registered Professional Engineer, a Certified Professional in Erosion and Sediment Control (CPESC), a Certified Professional in Stormwater Quality (CPSWQ), or a Registered Landscape Architect. If the Stormwater Management Plan requires the practice of engineering, this must be signed by a Registered Professional Engineer.

Note: Upon completion of the permitted project, the DEM must be notified via the submittal of a completed Notice of Termination. In accordance with Construction Activity General Permit Part V.L., this permit is not transferable to any person or group except after due notice to the Director. If no such notice is given, the named owner will be held liable for all fees and expenses levied to this permit.



**RHODE DEPARTMENT OF ENVIRONMENTAL MANAGEMENT**  
Office of Water Resources



**APPLICATION FEE FORM**

Please complete the information below and **submit this completed form and your check (payable to "R.I. General Treasurer") for the appropriate fee directly to:**

R.I. Department of Environmental Management  
Office of Management Services  
235 Promenade Street  
Providence, RI 02908

**\*\*\* FEES ARE NOT REFUNDABLE \*\*\***

**OWNER**

Name:			
Mailing Address:			
City:	State:	Zip:	Phone: ( )
Contact Person:	Title:		
Email Address of Contact Person:			
Billing Address (if different than above):			
City:	State:	Zip:	

**CONSTRUCTION SITE INFORMATION**

Site's Official or Legal Name:			
Street Address:			
City:	State:	Zip:	Phone:
Latitude (to nearest 15 sec.) ____ Deg. ____ Min. ____ Sec.	Longitude (to nearest 15 sec.) ____ Deg. ____ Min. ____ Sec.		
Nearest Utility Pole Number:	Assessors Plat:	Lot:	

APPLICATION TYPE:   **RIPDES Construction General Permit**  

**NOTE:** The application and all accompanying documents should be submitted to the appropriate section of the Office of Water Resources, 235 Promenade Street, Providence, RI 02908-5767. Application review will be initiated only upon receipt of the complete application fee.

**FOR OFFICE USE ONLY**

OMS Receipt Date: \_\_\_\_\_

Fee Amount Received: \_\_\_\_\_

Processor Initials: \_\_\_\_\_



**RHODE ISLAND DEPARTMENT OF ENVIRONMENTAL MANAGEMENT**  
Office of Water Resources



INSTRUCTIONS FOR THE RI POLLUTANT DISCHARGE ELIMINATION SYSTEM (RIPDES)  
**NOTICE OF INTENT (NOI) - STORMWATER GENERAL PERMIT FOR CONSTRUCTION ACTIVITY**

**Who Must File A Notice of Intent (NOI) Form**

Discharges of stormwater associated with construction activity to a water body of the State of Rhode Island are prohibited without a Rhode Island Pollutant Discharge Elimination System (RIPDES) permit. The operator of a construction activity that has such a stormwater discharge must obtain coverage under the RIPDES Stormwater General Permit. If you have questions about whether you need a permit under the RIPDES Stormwater program contact the Rhode Island Department of Environmental Management (RIDEM), Office of Water Resources, Permitting Section at (401) 222-4700.

If required to be submitted per Part I.D.1 of the permit, the original NOI form must be sent to:

RIDEM  
Office of Water Resources  
RIPDES Program  
Permitting Section  
235 Promenade Street  
Providence, RI 02908

Please be sure to keep a copy for your files.

**Completing the Form**

You must type or print in the appropriate areas only. Abbreviate if necessary to save space.

**Section I - Owner Information**

Give the legal name of the person, firm, public (municipal) organization, or any other entity that owns the site described in this application (RIPDES Rules 3 & 12). The name of the owner may or may not be the same as the name of the site. Do not use a colloquial name. Enter the complete address and telephone number of the owner. Provide the name and email address of person to be contacted to answer questions on the construction project.

**Section II - Operator Information**

If the operator is the same as the owner do not complete this section. If the operator is different from the owner, provide the legal name of the person, firm, public (municipal) organization, or any other entity that has legal responsibility for the day-to-day operations of the site described in this application (RIPDES Rules 3 & 12). Enter the complete name, address, telephone number, and email address of the operator.

**Section III - Construction Site Information**

Enter the site's official or legal name and complete street address and telephone number, if available. Enter the latitude and longitude of the site (see next section,

Section IV for a link to the RIDEM ArcGIS map server tutorial which provides instructions on how to quickly obtain this information). Enter the number of the utility pole closest to the site and the assessor's plat and lot numbers of the site. Indicate if the site is part of a larger development by checking yes or no. If yes, please enter the name of the development and total area of disturbance of the larger common plan. Indicate the projected or actual construction commencement date and the projected construction completion date using the 2-digit code format for month/day/year (e.g. 01/31/09 for January 31, 2009). Enter the total area of the site (acres), and the area of disturbed land (acres).

**Section IV - Discharge Location Information**

An ArcGIS map server has been developed for use by the public to assist in obtaining pertinent regulatory and environmental information. The ArcGIS Environmental Resource Map can be found at the following web address:

<http://www.dem.ri.gov/maps/index.htm>

In addition, a tutorial with step by step instructions has been developed by the RIPDES Permitting Program to assist in completing this NOI by using the information available at the ArcGIS website. For access to this tutorial please refer to the following website: <http://www.dem.ri.gov/programs/benviron/water/permits/rripdes/index.htm>

If the stormwater from your site has the potential to discharge to a separate storm sewer system check the box and enter the name of the operator of the storm sewer system and enter the name of the ultimate surface water.

If the site discharges stormwater directly to a surface water body check the box and enter the name of the receiving water. Provide the ultimate receiving water body name and water body ID if different from the one already provided. Determine the water body ID number, if the receiving water body is a cold water or warm water fishery, if it is impaired, and if it is classified as an SRPW, or if is subject to a TMDL.

Identify if the project is associated with a DEM Office of Waste Management site, if yes provide a description and a DEM Office of Waste Management contact person.

If the project is associated with a previously submitted permit application or it is related to a DEM enforcement action please indicate.

Does the project meet the criteria for a Land Use with Higher Potential Pollutant Loads (LUHPPL) as defined by the RI Stormwater Design and Installation Standards Manual (as amended)?

<http://www.dem.ri.gov/programs/benviron/water/permits/ripdes/stwater/t4guide/desman.htm>

If yes, describe.

Identify whether or not the site will require a separate permit for the proposed industrial activity under Rule 31(b)15 of the RIPDES Regulations by going to the following website:

<http://www.dem.ri.gov/pubs/regs/regs/water/ripdes03.pdf>

Or by referring to the RIPDES Multi-Sector General Permit for Stormwater Discharge Associated with Industrial Activity which can be found at the following website:

<http://www.dem.ri.gov/programs/benviron/water/permits/ripdes/index.htm>

Determine if your site is within or directly discharging to a NHA. After obtaining this information from the ArcGIS webpage, check the appropriate box to indicate whether or not your site is within or directly discharging to an NHA.

### **Certification**

State and federal statutes provide for severe penalties for submitting false information on this application form. State and federal regulations require this application to be signed as follows and in accordance with RIPDES Rule 12;

### **Section V - Owner/Operator Certification**

#### Owner:

*For a corporation:* by a responsible corporate officer, which means: (i) president, secretary, treasurer, or vice-president of the corporation in charge of a principal business function, or any other person who performs similar policy or decision making functions, or (ii) the manager of one or more manufacturing, production, or operating facilities employing more than 250 persons or having gross annual sales or expenditures exceeding \$25 million (in second quarter 1980 dollars), if authority to sign documents has been assigned or delegated to the manager in accordance with corporate procedures;

*For a partnership or sole proprietorship:* by a general partner or the proprietor;

*For a Municipality, State, Federal or other public site:* by either a principal executive officer or ranking elected official.

#### Operator:

This part needs to be filled out by the entity or the individuals that will have an ongoing role in the management and operation of the site during construction.

### **Section VI – Professional Certification - Natural Heritage Areas**

This section must be signed/certified by a Registered Professional Engineer, a Certified Professional in Soil Erosion and Sediment Control (CPESC), or a Certified Professional in Stormwater Quality (CPSWQ), or a Registered Landscape Architect.

### **Section VII – Professional Certification - Soil Erosion and Sediment Control Plan Development**

This section must be signed/certified by a Registered Professional Engineer, a Certified Professional in Soil Erosion and Sediment Control (CPESC), or a Certified Professional in Stormwater Quality (CPSWQ), or a Registered Landscape Architect. The purpose of this certification is to document that a site specific Soil Erosion and Sediment Control Plan was prepared consistent with the requirements of the General Permit prior to filing the NOI. This certification by a professional does not alleviate or in any way limit the liability and sole responsibility of the Owner/Operator to properly implement the Soil Erosion and Sediment Control Plan and to amend the Soil Erosion and Sediment Control Plan as site conditions may require, so as to effectively control stormwater discharges leaving the site during the construction period.

### **Paperwork Reduction Act Notice**

Public burden for this application is estimated to average 0.5 hours per application, including time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. EPA determined this time estimate for the Federal NOI form and although the Rhode Island form requires additional information, it is considered minor and therefore this time estimate is believed to be valid for the State NOI form. Send comments regarding the burden estimate any other aspect of the collection of information, or suggestions for improving this form, including any suggestions which may increase or reduce this burden to: Chief, Information Policy Branch, PM-223, U.S. Environmental Protection Agency, 401 M Street SW, Washington, DC 20460, or Director, Office of Information and Regulatory Affairs, Office of Management and Budget, Washington, DC 20503.



**NOTICE OF TERMINATION (NOT)**

STORMWATER GENERAL PERMIT  
FOR CONSTRUCTION ACTIVITY  
(Revised – September 2013)

RIPDES Permit Authorization to be terminated: No. RIR _____
---

**I. OWNER**

Name:	Email:		
Mailing Address:			
City:	State:	Zip:	Phone: ( )
Contact Person:	Title:		

**II. OPERATOR (if different from Owner)**

Name:	Email:		
Mailing Address:			
City:	State:	Zip:	Phone: ( )
Contact Person:	Title:		

**III. CONSTRUCTION SITE INFORMATION**

Street Address:			
City:	State:	Zip:	Phone:
Nearest Utility Pole Number:	Assessor's Plat:	Lot:	
Date land disturbing activities ceased:			
Date final site stabilization was achieved:			

**IV. OWNER & OPERATOR CERTIFICATION**

I certify under penalty of law that all disturbed soils at the construction site have been stabilized and temporary erosion and sediment control measures have been removed and all stormwater discharges associated with construction activity from the construction site that are authorized by the General Permit have been eliminated. The burden of operating in compliance with applicable RIPDES Regulations is my responsibility. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Print Owner Name \_\_\_\_\_

Print Owner Title \_\_\_\_\_

Owner Signature \_\_\_\_\_ Date \_\_\_\_\_

Print Operator Name \_\_\_\_\_

Print Operator Title \_\_\_\_\_

Operator Signature \_\_\_\_\_ Date \_\_\_\_\_



**SESC APPENDIX D**  
COPY OF REGULATORY PERMITS



# **SESC APPENDIX E**

## **RIPDES NOI**





**RHODE ISLAND POLLUTANT DISCHARGE  
ELIMINATION SYSTEM (RIPDES)  
NOTICE OF INTENT (NOI)  
STORMWATER GENERAL PERMIT FOR  
CONSTRUCTION ACTIVITY  
(Revised September 2013)**

<b>DEM USE ONLY</b>	
Date NOI Received	_____
Date Fee Received	_____
RIPDES#	RIR _____

<b>CHECK ONLY ONE ITEM</b>	<input checked="" type="checkbox"/> New Request for Permit Authorization
	<input type="checkbox"/> Re-Application for RIPDES Authorization No. RIR _____, which expires on September 25, 2013.
	<input type="checkbox"/> Amendment to RIPDES Authorization No. RIR _____.

**I. OWNER**

Name: Rhode Island Department of Transportation			
Mailing Address: 2 Capitol Hill			
City: Providence	State: RI	Zip: 02903	Phone: ( 401)222-2023
Contact Person: Frank Corrao III, P.E.		Title: Deputy Chief Engineer	
Email Address of Contact Person:			
Billing Address (if different than above):			
City:	State:	Zip:	

**II. OPERATOR (if different from Owner)**

Name:			
Local Mailing Address:			
City:	State:	Zip:	Phone: ( )
Contact Person:		Title:	
Email Address of Contact Person:			

**III. CONSTRUCTION SITE INFORMATION**

Site's Official or Legal Name: Bridge No's 483-486 Pier Cap Replacement and Miscellaneous Bridge Repairs			
Street Address: Commodore Perry Highway			
City: South Kingstown	State: RI	Zip: 02883	Phone:
Latitude (to nearest 15 sec.) _41_ Deg. _25_ Min. _42_ Sec.		Longitude (to nearest 15 sec.) _-71_ Deg. _29_ Min. _56_ Sec.	
Nearest Utility Pole Number:		Assessors Plat: N/A	Lot: N/A

Is the construction site part of a larger common plan of development or sale?  YES  NO

List Name of Larger Common Plan: \_\_\_\_\_ Total Disturbed Acres of Common Plan \_\_\_\_\_ Acres

Projected or Actual Construction Commencement Date Spring 2015  
MM/DD/YY

Projected Construction Completion Date Summer 2016  
MM/DD/YY

---

Area of Site: Total Acres: 4.8 Proposed Area of Disturbance in Acres: 1.4

**IV. DISCHARGE LOCATION INFORMATION**

Note: If stormwater from the site discharges to a Combined Sewer Overflow a RIPDES authorization for the construction activity is not necessary, please confirm that the discharge will enter a combined sewer system with the appropriate sewer authority.

Separate Storm Sewer System (MS4) Name: \_\_\_\_\_

Unnamed stream or wetlands connected to named receiving water body. Name: \_\_\_\_\_

Ultimate Receiving Water Body Name: Point Judith Pond Water Body ID#: RI0010043E-06B

Is the receiving water body classified as a Cold or Warm Water Fishery?  Cold Water  Warm Water  Unassessed

Is the receiving water body on the most recent State of RI 303(d) List of Impaired Waters?

YES  NO

If yes, list any applicable impairments: Integrated Report Category of 4A

Is the Receiving Water(s) designated as a Special Resource Protection Water (SRPW)?  YES  NO

Has a TMDL been completed for the receiving water body?  YES  NO

If yes, list any applicable impairments: Fecal Coliform

Is the project associated with a DEM Office of Waste Management (OWM) site?  YES  NO ;

If yes, please describe and provide a DEM OWM contact:  
\_\_\_\_\_

Is the proposed project associated with a previous permit application or enforcement action?  YES  NO ;

If yes, please describe: \_\_\_\_\_

---

Does the project meet the criteria for a Land Use with Higher Potential Pollutant Loads (LUHPPL) as defined by the RI Stormwater Design & Installation Standards Manual (as amended)?

YES  NO If yes, describe:

---

Will the site require a separate permit for the proposed industrial activity under Rule 31(b)15 of the RIPDES Regulations?  YES  NO

If yes, describe:

---

Is the site within or directly discharging to a Natural Heritage Area (NHA)?

YES  NO

**V. OWNER/OPERATOR CERTIFICATION**

I certify under penalty of law that this document and all attachments were prepared under the direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that if review of the Stormwater Management Plan is performed by the DEM RIPDES Permitting Program, Freshwater Wetlands Section, Water Quality Certification Program, the UIC/Ground Permit Program, Coastal Resources Management Council, or by a city/town which has adopted a DEM approved Soil Erosion and Sediment Control Ordinance, then a Stormwater Permit from this office is contingent upon approval from the reviewing agency. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. I am aware that it is the responsibility of the owner/operator to implement and amend the Soil Erosion and Sediment Control Plan as appropriate in accordance with the requirements of the General Permit.

Print Owner Name & Company Frank Corrao III, P.E.

Print Owner Title Deputy Chief Engineer

Signature \_\_\_\_\_ Date \_\_\_\_\_

Print Operator Name & Company \_\_\_\_\_

Print Operator Title \_\_\_\_\_

Signature \_\_\_\_\_ Date \_\_\_\_\_

**VI. PROFESSIONAL CERTIFICATION - NATURAL HERITAGE AREAS**

I certify under penalty of law that the Natural Heritage Area Information under Section IV of this NOI was prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete at the time this application is made. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Print Name of Professional & Company Ko Ishikura

Print Professionals Title\* President

Registration or License Number \_\_\_\_\_

Signature \_\_\_\_\_ Date \_\_\_\_\_

\*Must be signed by a Registered Professional Engineer, a Certified Professional in Erosion and Sediment Control (CPESC), a Certified Professional in Storm Water Quality (CPSWQ), or a Registered Landscape Architect.

**VII. PROFESSIONAL CERTIFICATION - SOIL EROSION AND SEDIMENT CONTROL PLAN DEVELOPMENT**

Note: The purpose of this certification is to document that a site specific Soil Erosion and Sediment Control Plan was prepared consistent with the requirements of the General Permit. This certification by a professional does not alleviate or in any way limit the liability and sole responsibility of the Owner and Operator to properly implement the Soil Erosion and Sediment Control Plan and to amend the Soil Erosion and Sediment Control Plan as site conditions may require, so as to effectively control stormwater discharges leaving the site during the construction period.

I certify under penalty of law that a site specific Soil Erosion and Sediment Control Plan was prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for developing the Soil Erosion and Sediment Control Plan, the Soil Erosion and Sediment Control Plan is, to the best of my knowledge and belief, true, accurate, and complete at the time this certification is made and has been developed in accordance to the requirements of the Permit as well as all applicable guidelines in the *Rhode Island Soil Erosion and Sediment Control (RISESC) Handbook* (as amended) and the *Rhode Island Stormwater Design and Installation Standards Manual* (as amended). I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Print Name of Professional & Company Ko Ishikura

Print Professionals Title\* President

Registration or License Number \_\_\_\_\_

Signature \_\_\_\_\_ Date \_\_\_\_\_

\*Must be signed by a Registered Professional Engineer, a Certified Professional in Erosion and Sediment Control (CPESC), a Certified Professional in Stormwater Quality (CPSWQ), or a Registered Landscape Architect. If the Stormwater Management Plan requires the practice of engineering, this must be signed by a Registered Professional Engineer.

Note: Upon completion of the permitted project, the DEM must be notified via the submittal of a completed Notice of Termination. In accordance with Construction Activity General Permit Part V.L., this permit is not transferable to any person or group except after due notice to the Director. If no such notice is given, the named owner will be held liable for all fees and expenses levied to this permit.

**SESC APPENDIX F**  
**INSPECTION REPORTS & CORRECTIVE ACTION LOG**





# SESC Plan Inspection Report Instructions

For all projects with at least one (1) acre of soil disturbance, the site owner and operator are required to develop and comply with a site specific Soil Erosion and Sediment Control Plan (SESC Plan) in order to remain in compliance with the Rhode Island Pollutant Discharge Elimination System (RIPDES) General Permit for Stormwater Discharges Associated with Construction Activity (RIPDES Construction General Permit).

This inspection report template has been provided by RIDEM for use by the site operator and designated inspector to document the erosion, runoff, and sediment control conditions at the construction site. It should be customized to meet the requirements in the RIPDES Construction General Permit and the site specific SESC Plan.

## ***Using the Inspection Report***

This inspection report is designed to be customized according to the control measures and conditions at the site. On a copy of the site plan, number all stormwater control measures and areas of the site that will be inspected. Include both structural (basins, outlet protection, swales, etc.) and non-structural (construction entrances, perimeter barriers, trash areas, etc.) control measures and areas that will be inspected. Also, identify all point source discharges/outfalls, areas of highly erosive soils, and the priority natural resource areas (i.e. streams, wetlands, mature trees, etc). List each control measure or area to be inspected separately in the site-specific control measure section of the inspection report.

Complete any items that will remain constant, such as the project information and control measure locations and descriptions. Then, print out multiple copies of this customized inspection report to use during the inspections.

When conducting the inspection, walk the site by following the site map and numbered control measure locations for inspection. Also note whether the overall site issues have been addressed. Customize this list according to the conditions at the site.

## ***Minimum Monitoring and Reporting Requirements***

All stormwater control measures, disturbed areas, areas used for the storage of materials that are exposed to precipitation (including unstabilized soil stockpiles), discharge locations, and locations where vehicles enter or exit the site must be inspected at least once every seven (7) calendar days and within twenty-four (24) hours after any storm event, which generates at least 0.25-inches of precipitation per twenty four (24) hour period and/or after a significant amount of runoff or snowmelt. An appropriate rain gauge (as may be found on [www.wunderground.com](http://www.wunderground.com) or [www.nws.noaa.gov](http://www.nws.noaa.gov) (or similar sites)) must be identified and utilized for the determination of the storm events.

## **General Notes**

- A separate inspection report will be prepared for each inspection.
- The Inspection Reference Number shall be a combination of the **RIPDES Permit Authorization Number** - **consecutively numbered inspections**.  
ex/ Inspection reference number for the 4<sup>th</sup> inspection of a project would be:  
**RIR10####-4**
- Each report will be signed and dated by the inspector and forwarded to the site operator within 24 hours of the inspection.
- Each report will be signed and dated by the site operator and returned to the inspector within 24 hours of receipt.
- It is the responsibility of the site operator to maintain a copy of the SESC Plan, copies of all completed inspection reports, and amendments as part of the SESC Plan documentation at the site during construction.

## **Corrective Actions**

If the SESC Plan Inspection determines that corrective actions are necessary to install or repair control measures, the resultant actions taken must be documented by the site operator. The actions must be recorded in the Corrective Action Log attached to each SESC Plan inspection form. If the site operator disagrees with the corrective action recommendations, it must be documented, with justifiable reasons, in the Corrective Action Log, as well.

## **Amendments**

All SESC Plan Amendments, except minor non-technical revisions, must be approved by the site owner and site operator. The revision must be recorded in the Record of Amendments Log Sheet within the SESC Plan, and dated red-line drawings and/or a detailed written description of the revision must be appended to the SESC Plan. Inspection forms must be revised to reflect all amendments. Update the *Revision Date* and the *Version #* in the footer of the report to reflect amendments made.

The SESC Plan shall be amended whenever there is a change in design, construction, operation, maintenance or other procedure, which has a significant effect on the potential for the discharge of pollutants, or if the SESC Plan proves to be ineffective in achieving its objectives.

**\*\*\*Remember that the regulations are performance-oriented.  
Even if best management practices are installed on a site according  
to the approved plan, the site is only in compliance when  
erosion, runoff, sedimentation, and pollution  
are effectively controlled.\*\*\***

## SESC Plan Inspection Report

Project Information			
Name			
Location			
DEM Permit No.			
Site Owner	Name	Phone	Email
Site Operator	Name	Phone	Email
Inspection Information			
Inspector Name	Name	Phone	Email
Inspection Date		Start/End Time	
Inspection Type <input type="checkbox"/> Weekly <input type="checkbox"/> Pre-storm event <input type="checkbox"/> During storm event <input type="checkbox"/> Post-storm event <input type="checkbox"/> Other			
Weather Information			
Last Rain Event Date:                      Duration (hrs):                      Approximate Rainfall (in):			
Rain Gauge Location & Source:			
Weather at time of this inspection:			

**Check statement that applies then sign and date below:**

I, as the designated Inspector, certify that this site has been inspected and is in compliance with the site SESC Plan and the RIPDES Construction General Permit.

I, as the designated Inspector, certify that this site has been inspected and I have made the determination that the site requires corrective actions before it will be compliant with the site SESC Plan and the RIPDES Construction General Permit. The required corrective actions are noted within this inspection report.

<b>Inspector:</b>	Print Name	Signature	Date
<p>The Site Operator (identified in the permit application) acknowledges the receipt of this SESC Plan inspection report, and understands the requirements set forth in the RIPDES Construction General Permit regarding the implementation and maintenance of erosion, runoff, and sedimentation controls and pollution prevention measures.</p>			
<b>Operator:</b>	Print Name	Signature	Date

**PROJECT:**

**INSPECTION DATE:**

**Site-specific Control Measures**

Number the structural and non-structural stormwater control measures identified in the SESC Plan on the site map and list them below (add as necessary). Bring a copy of this inspection form and numbered site map with you during your inspections. This list will help ensure that you are inspecting all required control measures at your site.

**FILL THIS TABLE USING THE SESC PLAN TABLES 2.13 & 3.14.**

	<b>Location/Station</b>	<b>Control Measure Description</b>	<b>Installed &amp; Operating Properly?</b>	<b>Assoc. Photo/ Figure #</b>	<b>Corrective Action Needed (Yes or No; if 'Yes', please detail action required)</b>
1			<input type="checkbox"/> Yes <input type="checkbox"/> No		
2			<input type="checkbox"/> Yes <input type="checkbox"/> No		
3			<input type="checkbox"/> Yes <input type="checkbox"/> No		
4			<input type="checkbox"/> Yes <input type="checkbox"/> No		
5			<input type="checkbox"/> Yes <input type="checkbox"/> No		
6			<input type="checkbox"/> Yes <input type="checkbox"/> No		
7			<input type="checkbox"/> Yes <input type="checkbox"/> No		
8			<input type="checkbox"/> Yes <input type="checkbox"/> No		
9			<input type="checkbox"/> Yes <input type="checkbox"/> No		
10			<input type="checkbox"/> Yes <input type="checkbox"/> No		
11			<input type="checkbox"/> Yes <input type="checkbox"/> No		
12			<input type="checkbox"/> Yes <input type="checkbox"/> No		
13			<input type="checkbox"/> Yes <input type="checkbox"/> No		
14			<input type="checkbox"/> Yes <input type="checkbox"/> No		
15			<input type="checkbox"/> Yes <input type="checkbox"/> No		

**PROJECT:**

**INSPECTION DATE:**

	<b>Location/Station</b>	<b>Control Measure Description</b>	<b>Installed &amp; Operating Properly?</b>	<b>Assoc. Photo/ Figure #</b>	<b>Corrective Action Needed (Yes or No; if 'Yes', please detail action required)</b>
16			<input type="checkbox"/> Yes <input type="checkbox"/> No		
17			<input type="checkbox"/> Yes <input type="checkbox"/> No		
18			<input type="checkbox"/> Yes <input type="checkbox"/> No		
19			<input type="checkbox"/> Yes <input type="checkbox"/> No		
20			<input type="checkbox"/> Yes <input type="checkbox"/> No		
21			<input type="checkbox"/> Yes <input type="checkbox"/> No		
22			<input type="checkbox"/> Yes <input type="checkbox"/> No		
23			<input type="checkbox"/> Yes <input type="checkbox"/> No		
24			<input type="checkbox"/> Yes <input type="checkbox"/> No		
25			<input type="checkbox"/> Yes <input type="checkbox"/> No		
26			<input type="checkbox"/> Yes <input type="checkbox"/> No		
27			<input type="checkbox"/> Yes <input type="checkbox"/> No		
28			<input type="checkbox"/> Yes <input type="checkbox"/> No		
29			<input type="checkbox"/> Yes <input type="checkbox"/> No		
30			<input type="checkbox"/> Yes <input type="checkbox"/> No		

(add more as necessary)

**Overall Site Issues**

*Below are some general site issues that should be assessed during inspections. Please customize this list as needed for conditions at the site. If item is not applicable, please note why.*

	<b>Location/Station</b>		<b>Assoc. Photo/ Figure #</b>	<b>Corrective Action Needed (If 'Yes', please detail action required and include location/station)</b>
1	Have Limits of Disturbance been properly marked and maintained?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A		
2	Have perimeter controls and sediment barriers been adequately installed and maintained?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A		
3	Are storm drain inlets properly protected?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A		
4	Are natural resource areas (e.g., streams, wetlands, trees, etc.) protected with barriers or similar best management practices (BMPs)?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A		
5	Have graveled access entrance and exit drives and parking areas been installed and maintained?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A		
6	Have sediment controls been installed on all steep side slopes and down slopes that are disturbed, especially those adjacent to property lines, drainage conveyances/inlets or water bodies?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A		
7	Are all steep slopes and disturbed areas not actively being worked properly stabilized?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A		
8	Have soils been stabilized where final grading is complete and land disturbance activities have permanently ceased?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A		
9	Have soils been stabilized where land disturbance activities have been halted temporarily and are not planned to resume within the next fourteen (14) days?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A		
10	Have soil/gravel stockpiles been stabilized or isolated?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A		
11	Are building materials which possess an elevated pollution potential stored inside or under cover?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A		
12	Are stockpiles of construction wastes properly covered or disposed of to reduce exposure?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A		
13	Are washout facilities (e.g. paint, concrete) available, clearly marked, and maintained?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A		

	Location/Station		Assoc. Photo/ Figure #	Corrective Action Needed (If 'Yes', please detail action required and include location/station)
14	Are vehicle and equipment fueling, cleaning, and maintenance areas free of spills, leaks, or any other deleterious material?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A		
15	Are hazardous materials spill kits in place and are there enough materials as prescribed in the SESC Plan to adequately prevent spills from entering any stormwater drainage systems?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A		
16	Have provisions been made for wind erosion and dust control?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A		
17	Have areas of obvious erosion/channelization been repaired?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A		
18	Are receiving conveyance systems and receiving waters at discharge points free of sediment deposition?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A		
19	Is there evidence of sediment being tracked into the street or off-site?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A		
20	Are non-stormwater discharges (e.g., wash water, dewatering) properly controlled?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A		
21	Are post-construction stormwater practices protected from sedimentation prior to final stabilization and bringing them online?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A		
22	Are infiltrating stormwater practices and qualifying pervious areas protected during construction activities to avoid compacting soil?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A		
23	(Other)	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A		

(add more as necessary)

**PROJECT:**

**INSPECTION DATE:**

---

**General Field Comments:**

**PROJECT:**

**INSPECTION DATE:**

**Photos:**

(Associated photos – each photo should be dated and have a unique identification # and written description indicating where it is located within the project area. If a close up photo is required, it should be preceded with a photo including both the detail area and some type of visible fixed reference point. Photos should be annotated with Station numbers and other identifying information where needed.)

<b>Photo #:</b> (insert Photo here)	<b>Station:</b>
	<b>Description:</b>

<b>Photo #:</b> (insert Photo here)	<b>Station:</b>
	<b>Description:</b>

<b>Photo #:</b> (insert Photo here)	<b>Station:</b>
	<b>Description:</b>

<b>Photo #:</b> (insert Photo here)	<b>Station:</b>
	<b>Description:</b>

<b>Photo #:</b> (insert Photo here)	<b>Station:</b>
	<b>Description:</b>

<b>Photo #:</b> (insert Photo here)	<b>Station:</b>
	<b>Description:</b>

(add more as necessary)



**SESC APPENDIX G**  
AMENDMENT LOG



**PROJECT:**

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## Amendment Log

---

### TO BE FILLED OUT BY SITE OPERATOR

*Describe amendment(s) to be made to the SESC Plan, the date, and the person/title making the amendment. ALL amendments must be approved by the Site Owner.*

#	Date	Description of Amendment	Amended by: Person/Title	Site Owner Must Initial
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				

Add more lines/pages as necessary

**INDEX**  
**SPECIFICATIONS - JOB SPECIFIC**

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108.03	Prosecution and Progress	JS-2
108.1000	Prosecution and Progress and Substantial Completion Date	JS-3
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206.9901	Floating Turbidity Barrier	JS-10
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714.9901	Utility Relocation (Bridge No. 484)	JS-50
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**JOB SPECIFIC**  
**R.I. CONTRACT NO. 2015-CB-028**

**CODE 108.1000**

**PROSECUTION AND PROGRESS AND SUBSTANTIAL COMPLETION DATES**

In accordance with Section 108.08, Failure to Complete on Time, Para. a., Phased Completion, Interim Completion and Substantial Completion the following defines the Interim and Substantial Completion Dates and Associated Liquidated Damages:

Substantial Completion: See Table Below

All Contract work shall be completed, as defined by Section 101.71, by the date listed below, based on the actual Award Date.

<b>Award Date</b>	<b>Substantial Completion</b>
On or before Feb. 21, 2015	12-Sep-16

Liquidated Damages: \$1,750.00 per calendar day.

**JOB SPECIFIC  
R.I. CONTRACT NO. 2015-CB-028**

**CODES 817.9901, 817.9902, 817.9903, 817.9904  
FIBER WRAP EXISTING CONCRETE COLUMNS AND PIER CAPS  
(BRIDGE NO. 483)  
FIBER WRAP EXISTING CONCRETE COLUMNS AND PIER CAPS  
(BRIDGE NO. 485)  
FIBER WRAP EXISTING CONCRETE COLUMNS AND PIER CAPS  
(BRIDGE NO. 484)  
FIBER WRAP EXISTING CONCRETE COLUMNS AND PIER CAPS  
(BRIDGE NO. 486)**

**DESCRIPTION:** This specification is intended for use in defining the requirements of structural strengthening using a fiber reinforced polymer (FRP) composite system. The work shall consist of furnishing and placing layer(s) of (FRP) wrap material around existing concrete columns and proposed pier caps, as shown on plans. The Contractor shall furnish engineering services, material, tools, equipment, transportation, necessary storage, access, labor and supervision inspection and testing for the proper application of the composite system.

All Work shall be in accordance with the applicable provisions of the Rhode Island Department of Transportation Standard Specifications for Road and Bridge Construction, 2004 Edition, with latest addenda, except as modified herein.

**QUALIFIED SUPPLIER/INSTALLER:** Contractor is limited to sourcing the FRP from one of the suppliers/installers below. **Only those FRP system listed below shall be considered for use on this project.**

Carbon Wrap Solutions, LLC  
3843 N. Oracle Rd.  
Tucson, AZ 85705  
Telephone: 520-292-3109

Edge Structural Composites  
21881 8<sup>th</sup> St. East  
Sonoma, CA 95476  
707-940-1506

Fyfe Co. LLC  
8380 Miralani Dr., Suite A  
San Diego, CA 92126  
858-642-0694

Fibrwrap Construction  
14700-C Flint Lee Road  
Chantilly, VA 20166  
703-263-9161

All work under this specification shall be performed by one of the qualified suppliers/installers as listed above.

Small entrapped air pocket and voids naturally occur in mixed resin systems and do not require repair or treatment. Defect repair shall be provided by the manufacturer and be submitted to the Engineer for approval.

Repair of Protective Coating. Defects in protective coating shall be of three types: small hairline cracks, blistering, and peeling. In all cases moisture content of the substrate should be below 0.05% before applying a new coating. Prior to any repair of protective coating, the FRP system shall be examined visually or otherwise to ensure that no defect exists within or on the surface of the FRP. Defects in FRP, if found, shall be repaired as stated above. If protective coating appears to show small areas with cracks, the local surface shall be lightly sanded with a grit and a new coating with appropriate primer time shall be applied according to the manufacturer's recommendations. At the minimum, the coating shall be applied over an area extending 1 in. on either side of the defect. If the protective coating shows signs of blistering, the entire area of blisters as well as the surrounding area to a distance of at least 12 in. shall be carefully scraped clean. In no case should a blistered surface be recoated without complete removal of the existing coating. The area shall be wiped clean and then dried thoroughly. Once dry, the area can be recoated after application of the primer coat if required by the manufacturer. If the surface shows signs of excessive peeling, the entire coating shall be scraped off and the surface lightly sanded, wiped cleaned, and thoroughly dried before applying a new coat according to the manufacturer's recommendations.

#### **Site Considerations:**

For continuous uninterrupted FRP installation, the Contractor shall provide necessary pathways, scaffoldings, and other means of access to the general project site and to the specific repair area for the personnel, equipment, and material.

**METHOD OF MEASUREMENT:** This item will not be measured for payment.

**BASIS OF PAYMENT:** Item CODES 817.9901 to 817.9904 "FIBER WRAP EXISTING CONCRETE COLUMNS AND PIER CAPS (BRIDGE NO.\_\_\_\_)" will be paid for at the contract "Lump Sum" price for each bridge as listed in the Proposal. The price so stated shall constitute full compensation for furnishing, labor, materials, tools, testing, technical representative, design services, equipment, staging, preparing the concrete surface, installing the FRP composite system, test sample preparation, transmittal of samples to the laboratory and any laboratory charges, remedial measures, and cleaning and painting the finished composite surface, and all other incidentals required to finish the work, as described above and elsewhere in the Contract Documents, complete in place and accepted by the Engineer.

**JOB SPECIFIC  
R.I. CONTRACT NO. 2015-CB-028**

**CODE 818.9901**

**RAPID SETTING CONCRETE BRIDGE DECK REPAIR (FULL DEPTH REMOVAL)**

**DESCRIPTION:** This work consists of removing concrete from bridge deck surfaces, erecting form-work and the placement of new rapid setting concrete, all as indicated on the contract drawings and in accordance with Section 818 of the Rhode Island Standard Specification for Road and Bridge Construction, 2004 Edition and all revisions, supplemented and amended as follows.

**Full Depth Removal.** The limits of full depth concrete removal shall be those areas that require end of deck removal as shown on the plans, or as directed by the Engineer.

**MATERIALS.** The material shall conform to the following requirements:

**Rapid Setting Concrete** shall be air-entrained concrete composed of Portland cement, fine and coarse aggregate, admixtures and water. The air-entraining feature may be obtained by the use of either air-entraining Portland cement or an approved air-entraining admixture. The entrained air content shall be not less than 4 percent or more than 7 percent.

The Contractor shall design and submit to the Engineer a concrete mix which shall attain an 8-hour strength (f'c) of 4,000 psi. The contractor shall further provide a certificate stating that the mix submitted shall meet the requirements.

Water reducing, set controlling admixtures conforming to the requirements of AASHTO M194 may be used with the permission of the Engineer.

**Epoxy Adhesive** shall be an all-purpose, high-strength, moisture-insensitive, rigid epoxy adhesive. Such adhesive shall be listed on the Department's approved materials list. The Contractor shall ensure that the material used is compatible with the surfaces to be bonded.

**Reinforcement** shall conform to the requirements for ASTM 615 Grade 60 Reinforcing Steel as set forth in Section 810 of the Specifications.

**818.03 CONSTRUCTION METHODS.**

**Removal of Deteriorated Concrete.** Removal of concrete shall be performed in a workmanlike manner to prevent damage to the bridge deck that is to remain. Any damage to remaining portions of the bridge deck or to the structural girders caused by the Contractor's operations shall be repaired or replaced by the Contractor, at his own expense and to the satisfaction of the Engineer.

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R.I. Contract No. - 2015-CB-028

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206.9901	FLOATING TURBIDITY BARRIER	1
206.9902	18" COMPOST FILTER SOCK	1
209.9901	INLET PROTECTION	2
211.0100	CONSTRUCTION ACCESSES STANDARD 9.9.0	2
212.2000	CLEANING AND MAINTENANCE OF EROSION CONTROLS	2
401.9901	HOT MIX ASPHALT- CLASS 12.5	2
403.0300	ASPHALT EMULSION TACK COAT	3
702.0517	FRAME AND GRATE, STANDARD 6.3.2	3
707.1000	ADJUST SANITARY MANHOLE	3
707.1900	ADJUST FRAME & COVER TO GRADE	3
707.2000	ADJUST FRAME AND GRATE TO GRADE	3
708.9040	CLEANING AND FLUSHING PIPE ALL SIZES	4
708.9041	CLEANING CATCH BASINS ALL TYPES AND SIZES	4
713.8269	ADJUST WATER GATE BOXES TO GRADE	4
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805.9904	TEMPORARY SUPPORT SYSTEM (BRIDGE NO. 486)	6
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**Distribution of Quantities**

Project Name - Bridge Nos. 483-486 Pier Cap Replacement and Miscellaneous Bridge Repairs

Estimate Name - Addendum 1

R.I. Contract No. - 2015-CB-028

FAP Nos: BHO-0483(001)

Item No.	Item Code	Description	UM	Qty.	Pay Code	Seq. No.
033	817.2110 Cont.	BEAM, SPAN 3-4		20.00	0014	01
		BEAM, SPAN 4		15.00	0014	01
		PIER 3		19.00	0014	01
		PIER 3, SPAN 3		24.00	0014	01
		PIER 3, SPAN 3-4		15.00	0014	01
		PIER 4		21.00	0014	01
		PIER 4, SPAN 3-4		15.00	0014	01
		PIER 4, SPAN 4		24.00	0014	01
		BRIDGE NO. 485 SB				
		BEAM, SPAN 1		15.00	0014	01
		BEAM, SPAN 1-2		20.00	0014	01
		BEAM, SPAN 2		15.00	0014	01
		PIER 1, SPAN 1		24.00	0014	01
		PIER 1, SPAN 1-2		15.00	0014	01
		PIER 2		9.00	0014	01
		PIER 2, SPAN 1-2		15.00	0014	01
		PIER 2, SPAN 2		24.00	0014	01
		BRIDGE NO. 486 NB				
		PIER 3, SPAN 3		20.00	0014	01
		PIER 3, SPAN 3-4		15.00	0014	01
		PIER 4, SPAN 3-4		15.00	0014	01
		PIER 4, SPAN 4		20.00	0014	01
		BRIDGE NO. 486 SB				
		PIER 1, SPAN 1		20.00	0014	01
		PIER 1, SPAN 1-2		15.00	0014	01
		PIER 2, SPAN 1-2		15.00	0014	01
		PIER 2, SPAN 2		20.00	0014	01
<b>Item 817.2110 Total:</b>				<b>920.00</b>		

034	817.9901	FIBER WRAP EXISTING CONCRETE	LS			
		COLUMNS AND PIER CAPS (BRIDGE NO. 483)				
		BRIDGE NO. 483				

**Distribution of Quantities**

Project Name - Bridge Nos. 483-486 Pier Cap Replacement and Miscellaneous Bridge  
Repairs

Estimate Name - Addendum 1

R.I. Contract No. - 2015-CB-028

FAP Nos: BHO-0483(001)

<b>Item No.</b>	<b>Item Code</b>	<b>Description</b>	<b>UM</b>	<b>Qty.</b>	<b>Pay Code</b>	<b>Seq. No.</b>
034	817.9901 Cont.	BRIDGE 483		1.00	0014	01

**Distribution of Quantities**

Project Name - Bridge Nos. 483-486 Pier Cap Replacement and Miscellaneous Bridge Repairs

Estimate Name - Addendum 1

R.I. Contract No. - 2015-CB-028

FAP Nos: BHO-0483(001)

Item No.	Item Code	Description	UM	Qty.	Pay Code	Seq. No.
034	817.9901 Cont.	<b>Item 817.9901 Total:</b>		<b>1.00</b>		
035	817.9902	<b>FIBER WRAP EXISTING CONCRETE</b>	<b>LS</b>			
		<b>COLUMNS AND PIER CAPS (BRIDGE NO. 485)</b>				
		BRIDGE NO. 485				
		BRIDGE 485		1.00	0014	01
		<b>Item 817.9902 Total:</b>		<b>1.00</b>		
036	817.9903	<b>FIBER WRAP EXISTING CONCRETE</b>	<b>LS</b>			
		<b>COLUMNS AND PIER CAPS (BRIDGE NO. 484)</b>				
		BRIDGE NO. 484				
		BRIDGE NO. 484		1.00	0014	01
		<b>Item 817.9903 Total:</b>		<b>1.00</b>		
037	817.9904	<b>FIBER WRAP EXISTING CONCRETE</b>	<b>LS</b>			
		<b>COLUMNS AND PIER CAPS (BRIDGE NO. 486)</b>				
		BRIDGE NO. 486				
		BRIDGE NO. 486		1.00	0014	01
		<b>Item 817.9904 Total:</b>		<b>1.00</b>		
038	818.9901	<b>RAPID SETTING CONCRETE BRIDGE DECK REPAIR (FULL DEPTH REMOVAL)</b>	<b>SF</b>			
		BRIDGE NO. 483				
		JOINT OVER PIER 1		115.00	0014	01
		JOINT OVER PIER 2		115.00	0014	01
		JOINT OVER PIER 3		115.00	0014	01
		BRIDGE NO. 485 NB				
		JOIN OVER PIER 4		75.00	0014	01
		JOINT OVER PIER 3		75.00	0014	01
		BRIDGE NO. 485 SB				

**Distribution of Quantities**

Project Name - Bridge Nos. 483-486 Pier Cap Replacement and Miscellaneous Bridge  
Repairs

Estimate Name - Addendum 1

R.I. Contract No. - 2015-CB-028

FAP Nos: BHO-0483(001)

<b>Item No.</b>	<b>Item Code</b>	<b>Description</b>	<b>UM</b>	<b>Qty.</b>	<b>Pay Code</b>	<b>Seq. No.</b>
038	818.9901 Cont.	JOINT OVER PIER 1		75.00	0014	01
		JOINT OVER PIER 2		75.00	0014	01
<b>Item 818.9901 Total:</b>				<b>645.00</b>		