

February 21, 2013

STATE OF RHODE ISLAND AND PROVIDENCE PLANTATION
DEPARTMENT OF TRANSPORTATION
RHODE ISLAND CONTRACT NO.2013-CB-032
FEDERAL-AID PROJECT NO. FAP Nos: STP-FRIP(260)

Wellington Ave Br Mitigation Phase II (FRIP C-2B)

FRIP 270+83 TO 423+55.32
CITY/TOWN OF Warwick and Cranston
COUNTY OF KENT AND PROVIDENCE

NOTICE TO PROSPECTIVE BIDDERS

ADDENDUM NO. 3 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. Contract Documents

1. Contract Specific Specifications

Pages CS-4 through CS-7

Remove pages CS-4 through CS-7 in their entirety and replace with CS-4 (R-2) through CS-7 (R-2) attached to this Addendum No 3. Additional item was added to the Contractor Submittal List (CSL). Amtrak contact for submittals was added to Item B. Additional reference to stockpiling was added to Item C. Item E was deleted. Item H regarding As-Built drawings was added. Suggested Sequence of Construction was revised.

Pages CS-9 through CS-12

Remove pages CS-9 through CS-12 in their entirety and replace with CS-9 (R-1) through CS-12 (R-1) and CS-12a through CS-12b attached to this Addendum No 3. The TMP is being replaced with a revised and signed version.

2. Job-Specific - Specifications

Pages JS-4, 5 and 6

Code 202.9901

Remove pages JS-4 through JS-6 in their entirety and replace with pages JS-4 (R-1) through JS-6 (R-1). Delete this specification in its entirety.

Pages JS-7 through JS-13

Code 202.9902-07

Remove pages JS-7 through JS-13 in their entirety and replace with pages JS-7 (R-1) through JS-13 (R-1). Delete references to stockpiling hazardous or contaminated soil.

Pages JS-30 through JS-32

Code L02.9901

Remove pages JS-30 through JS-32 in their entirety and replace with pages JS-30 (R-1) through JS-32 (R-1). Added spring and fall wetland seed dates.

Pages JS-61 through JS-64

Code L15.9901

Remove pages JS-61 through JS-64 in their entirety and replace with pages JS-61 (R-1) through JS-64 (R-1). Revised speed specification reference and plant and seed watering references.

3. Special Notice - Proposal

Remove page P-1, P-3 and P-4 in their entirety and replace with pages P-1 (R-1), P-3 (R-1) and P-4 (R-1). These 3 pages are being revised as follows:

Code 212.2000 - Cleaning and Maintenance of Erosion Controls - Update minimum acceptable bid price to \$4,000.00.

Code 914.5010 - Flagpersons - Update minimum acceptable bid price to \$41.10.

Code 914.5020 - Flagpersons - Overtime - Update minimum acceptable bid price to \$51.38.

Code 202.9906 - Disposal of Contaminated Soil, Type 2 - Only Acceptable Bid Price of "\$25.00" Added.

Code 202.9904 - Disposal of Contaminated Soil, Type 1B - Only Acceptable Bid Price of "\$15.00" Added.

Code 202.9907 - Load, Haul and Dispose Contaminated Soil, Type 3 - Only Acceptable Bid Price of \$50,000.00 Added.

Remove page P-12 in its entirety and replace it with page P-12 (R-1). The following revisions were made to the dates on this page:

Completion Dates – add Interim completion date, Complete all work for Spans 1 through 15 and Span 16 April 30, 2014.

Substantial Completion Date - Revise Substantial Completion Date to October 15, 2014.



RI Department of Transportation
Chief Engineer

Minimal Use of Foreign Steel. Section 635.410(b)(4) of Title 23 CFR permits a minimal amount of foreign steel to be incorporated into a Federal-aid project. This amount is defined as one-tenth of one percent (0.1 percent) of the total contract cost or \$2,500, whichever is greater. The cost of the foreign steel is defined as its value delivered to the project.

6. SPECIALTY ITEMS

No specialty items are anticipated

7. NOTICE TO CONTRACTORS

A. Contract Submittal List (CSL)

The following submittals have been designated as critical submittals and thus shall be submitted within 30 calendar days from the Notice to Proceed.

- a. Amtrak Site Specific Work Plan
- b. 824.0421 AASHTO M270 Grade 50 Steel Furnish Fab. & Erect Rolled Simple Spans
- c. 824.9901 Walkway Grating
- d. 825.8041 Painting Structural Steel
- e. 903.9901 Chain Link Fence 4' Standard 31.1.0 Modified
- f. 999.9901 Temporary Access Road
- g. L06.9920 Invasive Plant Species Information

B. Plans and Shop Drawings

The Contractor shall note specification "12.105.02 Plans and Shop Drawings". The Contractor shall submit duplicate Shop Drawings (two copies per submittal) directly to the attention of the Consulting Engineer (AECOM, 10 Orms St., Suite 405, Providence RI 02904, Attn: Robert Wright, P.E.) simultaneously with each of his official submittals to the State. The Contractor shall submit duplicate Shop Drawings (two copies per submittal) of submittals a. through e. directly to the attention of the Amtrak (Amtrak, 165 Royal Little Drive, Providence RI 02904, Attn: Joseph Fitzsimmons, Area Construction Engineer) simultaneously with each of his official submittals to the State.

- C. Contractor should be aware that RIDOT will be pre-characterizing the soil to allow the contractor to excavate, load and remove the soil from the site eliminating the need for stockpiles. All references to stockpiling contaminated or hazardous materials shall be disregarded.
- D. Contractor shall coordinate with the Resident Engineer who will then contact the Environmental Compliance Monitor, hired by RIDOT, prior to any activities related to the wetland mitigation or any changes in schedule.
- E. Contractor is required to conduct an invasive species survey in accordance with L06.9920 Invasive Plant Species Information.
- F. Contractor must construct Temporary Access Road in accordance with 999.9901.

- G. Contractor is required to produce As-Built plans at 1' contours for the Wetland Restoration, Habitat Enhancement and Haul Road Areas including the area defined by the Haul Road Baseline from Sta 2+00 to Sta 4+80 and from the existing chain link fence to the railroad retaining wall. The plans shall meet the requirements of the RIDEM Freshwater Wetlands Program Site Plan Requirement Checklist.

8. SUGGESTED SEQUENCE OF CONSTRUCTION

PHASE 1 - Work Associated with Wetland Restoration and Habitat Enhancement Areas

1. Upon establishment of the final surface grades and obtaining RIDOT approval, the wetland portions of the site will be hand seeded with a wetland seed mix in accordance with L02.9901 Wetland Seed Mix and as shown on the plans. All disturbed areas will be hand seeded with a wetland seed mix as appropriate to provide additional soil stabilization. All areas hand seeded with wetland seed mix shall be stabilized with a layer of straw mulch.

INTERIM COMPLETION DATE 9-15-2013

2. Upland portions of the site will be seeded with a soil stabilization mix to provide cover and erosion control in accordance with L02 Seeding. All disturbed areas will be seeded with an upland seed mix to provide additional soil stabilization. All areas seeded with upland seed mix shall be stabilized with a layer of straw mulch or through the use of tackifier mulch.

3. Allow the seeding to stabilize during the RIDOT defined winter shutdown period, prior to the planting of shrubs & trees, which are part of the Phase 3 work.

PHASE 2 – Work Associated with Walkway and Fencing

INTERIM COMPLETION DATE 4-30-2014

1. Complete all work required for spans 1 thru 15 and span 16.

PHASE 3 – Planting in the Wetland Restoration and Habitat Enhancement Areas

1. On or after April 15, 2014, initiate the planting of the wetland restoration and habitat enhancement areas in accordance with the plans. All planting will be coordinated with the RIDOT, Natural Resources Unit, and the Landscape Architecture Unit. The Contractor/Engineer will notify them at least eight (8) working days prior to planting. All work must be completed by **June 30, 2014**.

PHASE 4 – Haul Road Removal

SUBSTANTIAL COMPLETION DATE 10-15-2014

1. Remove the entire haul road and temporary access road and complete the stream channel restoration. This work includes but may not be limited to rip rap slope protection, fill removal, grading, placement of soil material, seeding, planting, mulching, and survey as required to confirm the restored grades. Equipment will not be allowed to operate in these areas after completing the stream channel restoration.

Note:

2. All of the work associated with spans 17 thru 22 may be completed at any time provided all Contract Work is complete by the Substantial Completion Date of **October 15, 2014**.

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9. TRANSPORTATION MANAGEMENT PLAN

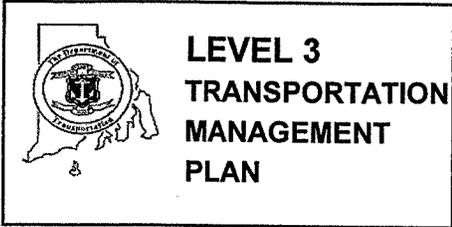
See Appendix A – Transportation Management Plan (TMP)

10. ENVIRONMENTAL PERMITS

See Appendix B – Remedial Approval Letter (RAL) and Remedial Action Work Plan (RAWP)

11. STORMWATER POLLUTION PREVENTION PLAN

See Appendix C – Stormwater Pollution Prevention Plan (SWPPP)



Project Name: WELLINGTON AVENUE RR BRIDGE MITIGATION PHASE II (FRIP C-2B)
 RI Design Contract No(s): 2013-CB-032
 RI Construction Contract No(s): STP-FRIP(260)
 Submission: FINAL Date: 2/18/2013

PROJECT INFORMATION

Brief Project Description: The work on this project includes removal of the haul road on the west side of the railroad south trestle, restoration of the adjacent wetlands and construction of a proposed safety walkway for the Wellington Avenue Railroad Bridge. Trucks, Backhoes and Cranes will be used to complete this work.

General Work Limits: Traffic restrictions are expected on Wellington Avenue for work on the Wellington Avenue Railroad Bridge. A lane closure is expected to be used to set up a crane for work on the railroad bridge above and over the Pawtuxet River.

WORK ZONE LOCATIONS

ROADWAY NAME or INTERSECTION	FROM	TO	APPROX. LENGTH
Wellington Avenue	600 ft N/W of RR Bridge	600 ft S/E of RR Bridge	1,200 ft

General Project Schedule*: Construction is expected to begin in April 2013 and substantial completion is expected for October 2014. The recommended sequence is to first construct the access road to the haul road, then complete the bridge walkway work and then remove the haul road and restore the wetlands when the bridge work is completed.

*The information in this section is not intended to and shall not supersede the approved schedule and milestone/completion dates for the project.

TRAFFIC-RELATED WORK RESTRICTIONS

General Restrictions: General restrictions are presented in Attachment A.

Holiday Restrictions: Holiday restrictions are presented in Attachment B.

PERFORMANCE MONITORING, CHANGES TO TMP, & CONTINGENCIES

The Contractor's TMP Implementation Manager (if identified below) is responsible for keeping the portion of the project being used by public traffic in a condition that (1) safely and adequately accommodates such traffic and (2) is in accordance with the Traffic-Related Work Restrictions, the Temporary Traffic Control Plans, and where appropriate, the other transportation management strategies identified above. The RIDOT TMP Implementation Manager or his/her responsible designee should (1) inspect the project work zones at initial setup, at the start of each subsequent work day, and just prior to extended breaks in the work (e.g., weekends) for conformance with the Temporary Traffic Control Plans, the ATSSA Quality Guidelines for Temporary Traffic Control Devices and Features, and where applicable, the other transportation management strategies identified above and (2) document all work zone-related feedback and complaints that are received from the public.

If at any time (1) a significant deviation from any of the strategies included in the TMP (e.g., the use of an alternate construction sequence) is desired by one or more members of the project implementation team, (2) field observations and/or data suggest that impacts to road users are or will be unacceptable, or (3) one or more performance requirements established in the TMP are not being met in the field, the RIDOT TMP Implementation Manager shall report the situation to his/her supervisor or Division/Section/Unit manager. The supervisor / manager will coordinate with the State Traffic Engineer, Deputy Chief Engineer, the TMP Implementation Manager(s), the Chief Engineer, and/or other interested parties as appropriate and/or necessary to consider and determine whether revised and/or alternate strategies should be implemented in an effort to lessen the adverse safety and/or mobility impacts of the project. If the supervisor / manager deems that strategy changes should be implemented, the changes shall be documented in a revised version of the TMP and the Deputy Chief Engineer, the State Traffic Engineer, and the Chief Engineer must approve of the revised TMP prior to their implementation.

If a significant deviation from any of the strategies included in the TMP is requested by the Contractor, unless directed otherwise by the RIDOT the Contractor is responsible for preparing and submitting to the RIDOT TMP Implementation Manager appropriate documentation (e.g., design calculations, analysis reports, Temporary Traffic Control Plans, etc.) showing that the requested change(s) are (1) feasible and (2) expected to result in safety and mobility impacts that are no more adverse than the impacts resulting from the strategies already included in the latest approved TMP. The RIDOT will review and consider the submittal(s) as described in the preceding paragraph and will determine whether the changes should be implemented. If the requested changes are approved by the RIDOT, unless otherwise directed by the RIDOT the Contractor shall prepare and submit to the RIDOT TMP Implementation Manager a revised version of the latest approved TMP in both printed and electronic (Microsoft® Excel) format that documents all of the approved changes. Work to implement the changes shall not begin until the Deputy Chief Engineer, the State Traffic Engineer, and the Chief Engineer have approved of the revised TMP.

When unexpected events (e.g., crashes, inclement weather, unforeseen traffic demands, etc.) occur in a project work zone where one or more lanes are closed, the RIDOT TMP Implementation Manager or his/her responsible designee should (1) determine whether or not the lane closure(s) can/should be removed in order to improve traffic operations and/or minimize delays and (2) if deemed appropriate, take action to remove the lane closure(s).

Other Requirements:

TMP APPROVALS

All approvals must be obtained prior to start of work

DEPUTY CHIEF ENGINEER		
Signature:		
	Frank Corrao, P.E.	
Date:	2/20/13	

STATE TRAFFIC ENGINEER		
Signature:		
	Robert Rocchio, P.E.	
Date:	2/20/13	

CHIEF ENGINEER		
Signature:		
	Kazem Farhoumand, P.E.	
Date:	2/20/13	

Revision #	Initials	Date

Revision #	Initials	Date

Revision #	Initials	Date

TMP IMPLEMENTATION MANAGERS

Project managers with the primary responsibility & authority for implementation of this TMP

RIDOT
Name: _____
Title: _____
Unit: _____
Office Phone: _____
Mobile Phone: _____
E-Mail: _____

CONTRACTOR (if contract work)
Name: _____
Title: _____
Company/Unit: _____
Office Phone: _____
Mobile Phone: _____
E-Mail: _____

MINIMUM NUMBER OF LANES & SHOULDERS TO REMAIN OPEN TO TRAFFIC ^{1,2,3,4}											
Location	Time of Day		Day of Week								
	From	To	SUN	MON	TUES	WED	THURS	FRI	SAT		
Wellington Avenue Cranston, RI	0:00	7:00	ALL	ALL	ALL	ALL	ALL	ALL	ALL	ALL	
	7:00	12:00	ALL	1 L	1 L	1 L	1 L	1 L	1 L	ALL	
	12:00	16:00	ALL	1 L	1 L	1 L	1 L	1 L	1 L	ALL	
	16:00	24:00	ALL	ALL	ALL	ALL	ALL	ALL	ALL	ALL	

LEGEND

ALL

All travel lanes and shoulders shall remain open to traffic.

1 L

A minimum of one 11-foot wide travel lane in each direction shall remain open to traffic.

NOTES

- 1 The set-up and break-down of temporary traffic control devices within a traveled way shall be construed as a closure of that traveled way.
- 2 The provisions noted herein shall not free the Contractor from his responsibility to conduct all work in such a manner that assures the least possible obstruction to traffic.
- 3 At locations with a sidewalk(s), a minimum of one sidewalk on one side of the roadway shall remain open to pedestrians at all times.
- 4 Access to and egress from all side streets, driveways, buildings, and other pedestrian pathways intersecting the Project work zones shall be maintained at all times unless otherwise noted or shown on the plans.

Attachment B

To Transportation Management Plan (TMP) for:

Project Title: **Wellington Ave RR Bridge Mitigation (FRIP C-2B)**
RIC No.: **2013-CB-032**

Holiday Restrictions

NOTE: IN CASE OF DISCREPANCY BETWEEN THESE HOLIDAY RESTRICTIONS AND THE GENERAL RESTRICTIONS (ATTACHMENT A), THESE HOLIDAY RESTRICTIONS SHALL GOVERN.

No lane and/or shoulder closures allowed after 13:00 on the Friday preceding a holiday weekend.

EASTER SUNDAY

No lane and/or shoulder closures allowed on Saturday.

No lane and/or shoulder closures allowed on Sunday until 22:00 (after 22:00, General Restrictions shall apply).

NEW YEAR'S DAY, INDEPENDENCE DAY, & CHRISTMAS DAY

No lane and/or shoulder closures allowed after 13:00 on the day before the holiday.

No lane and/or shoulder closures allowed on the holiday.

VETERANS DAY

No lane and/or shoulder closures allowed after 13:00 on the day before the holiday.

No lane and/or shoulder closures allowed on Veterans Day until 22:00 (after 22:00, General Restrictions shall apply).

DR. MARTIN LUTHER KING JR. DAY, VICTORY DAY, & COLUMBUS DAY

No lane and/or shoulder closures allowed on Saturday and/or Sunday.

No lane and/or shoulder closures allowed on Monday until 22:00 (after 22:00, General Restrictions shall apply).

MEMORIAL DAY & LABOR DAY

No lane and/or shoulder closures allowed on Saturday, Sunday, and/or Monday.

THANKSGIVING DAY

No lane and/or shoulder closures allowed after 13:00 on the Wednesday preceding Thanksgiving Day.

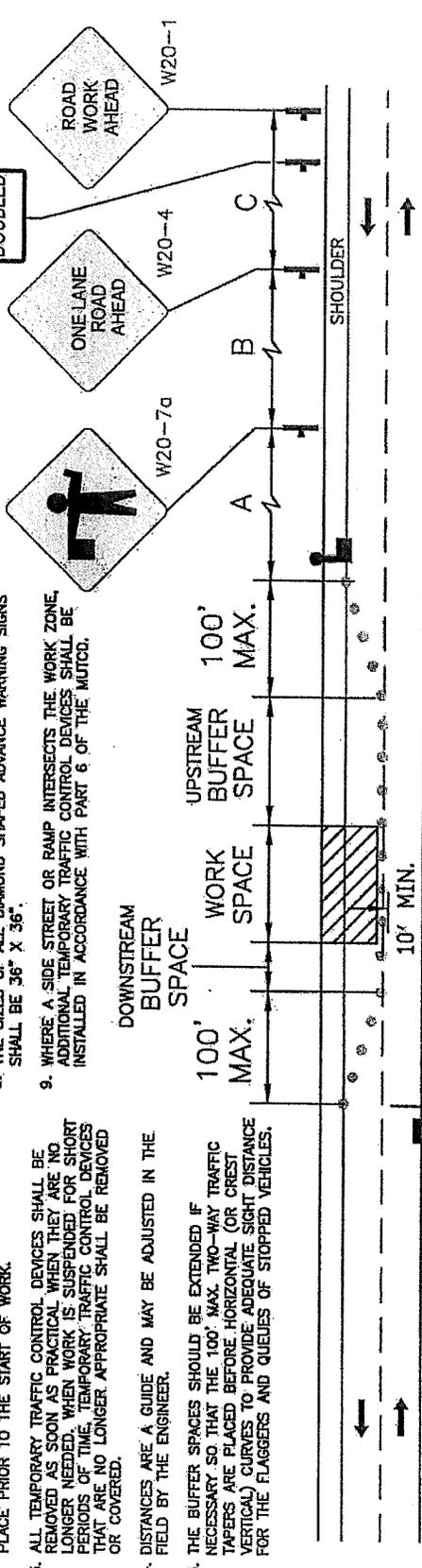
No lane and/or shoulder closures allowed on Thanksgiving Day, Friday, Saturday, and/or Sunday.

NOTES:

1. ALL TEMPORARY TRAFFIC CONTROL SET-UPS AND DEVICES AND THEIR INSTALLATION, MAINTENANCE, AND REMOVAL SHALL CONFORM TO THE LATEST EDITION OF THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" (MUTCD) WITH ALL REVISIONS, AND THE LATEST EDITION OF THE "RIDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" WITH ALL REVISIONS.
2. ALL TEMPORARY TRAFFIC CONTROL DEVICES SHALL BE IN PLACE PRIOR TO THE START OF WORK.
3. ALL TEMPORARY TRAFFIC CONTROL DEVICES SHALL BE REMOVED AS SOON AS PRACTICAL WHEN THEY ARE NO LONGER NEEDED. WHEN WORK IS SUSPENDED FOR SHORT PERIODS OF TIME, TEMPORARY TRAFFIC CONTROL DEVICES THAT ARE NO LONGER APPROPRIATE SHALL BE REMOVED OR COVERED.
4. DISTANCES ARE A GUIDE AND MAY BE ADJUSTED IN THE FIELD BY THE ENGINEER.
5. THE BUFFER SPACES SHOULD BE EXTENDED IF NECESSARY SO THAT THE 100' MAX. TWO-WAY TRAFFIC TAPERS ARE PLACED BEFORE HORIZONTAL (OR CREST VERTICAL) CURVES TO PROVIDE ADEQUATE SIGHT DISTANCE FOR THE FLAGGERS AND QUEUES OF STOPPED VEHICLES.

6. MAXIMUM SPACING OF CHANNELIZATION DEVICES IN THE 100' MAX. TWO-WAY TRAFFIC TAPERS IS 25 FEET. MAXIMUM SPACING OF CHANNELIZATION DEVICES IN A TANGENT SECTION IS EQUAL IN FEET TO TWO TIMES THE SPEED LIMIT IN MPH.
7. MINIMUM LANE WIDTH IS TO BE 10 FEET UNLESS OTHERWISE SHOWN. MINIMUM LANE WIDTH TO BE MEASURED FROM THE EDGE OF CHANNELIZATION DEVICES OR TEMPORARY BARRIER.
8. THE SIZES OF ALL DIAMOND SHAPED ADVANCE WARNING SIGNS SHALL BE 36" X 36".
9. WHERE A SIDE STREET OR RAMP INTERSECTS THE WORK ZONE, ADDITIONAL TEMPORARY TRAFFIC CONTROL DEVICES SHALL BE INSTALLED IN ACCORDANCE WITH PART 6 OF THE MUTCD.

R.I. Std. 27.1.1
(SEE STD. FOR SIZES AND INSTALL. LOCATION)



BUFFER LENGTHS

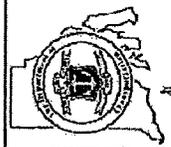
Speed Limit	Upstream Buffer Space* (feet)
25 MPH	55
30 MPH	85
35 MPH	120
40 MPH	170
45 MPH	220
50 MPH	280

* Suggested

MINIMUM ADVANCE WARNING SIGN SPACING

Posted Speed Limit & Location	Distance Between Signs (feet)		
	A	B	C
30 MPH OR LESS in URBAN OR RURAL AREA	100	100	100
35 MPH OR GREATER in URBAN AREA	350	350	350
35 MPH OR GREATER in RURAL AREA	500	500	500

R.I. Std. 27.1.1



RHODE ISLAND
DEPARTMENT OF TRANSPORTATION
TEMPORARY
TRAFFIC CONTROL PLAN

**TYPICAL LANE CLOSURE
ON
TWO-LANE ROADWAY**

NOT TO SCALE

DATE: 12-23-08

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CODE 202.9902 LOAD, HAUL AND DISPOSE SOIL, TYPE 1A
CODE 202.9903 LOAD AND HAUL CONTAMINATED SOIL, TYPE 1B
CODE 202.9904 DISPOSAL OF CONTAMINATED SOIL, TYPE 1B
CODE 202.9905 LOAD AND HAUL CONTAMINATED SOIL, TYPE 2
CODE 202.9906 DISPOSAL OF CONTAMINATED SOIL, TYPE 2
CODE 202.9907 LOAD, HAUL AND DISPOSE CONTAMINATED SOIL, TYPE 3

DESCRIPTION

This item of work includes all special handling, loading and hauling of contaminated or hazardous soil from the site and its on-site reuse as common borrow, off-site reuse or disposal at an off-site Industrial/Commercial property, recycling or disposal facility in accordance with RIDEM regulations for recycling/disposal of these materials and as directed by the Engineer. RIDOT's representative will pre-characterize the soil and provide the Contractor (post bid) with a plan identifying the limits of material type for disposal.

During the course of the project construction, contaminated soil shall be excavated. Soil in areas of the site has been documented to be contaminated. Available analytical data is shown in the Environmental Site Investigation Report (SIR) for this project and is included as an Appendix to the Remedial Action Work Plan (RAWP) which is included in the General Provisions – Contract Specific Appendix B. Appendix B also contains the RIDEM Remedial Approval Letter (RAL) dated January 13, 2013.

HEALTH AND SAFETY PLAN

The Contractor shall produce and maintain a site specific Health and Safety Plan (HASP) in compliance with the Occupational Safety and Health Administration (OSHA) Standards defined in 29 CFR 1910.120. The project HASP shall be implemented as part of this work.

The Contractor's employees and Subcontractor's employees who will be potentially exposed to the subsurface soils in the Remedial Action Work Plan (RAWP) are required to have OSHA 40-hour health and safety training and the 8 hour refresher training, if applicable. The Contractor shall provide training certificates to the Engineer for the persons that will be performing the work.

If visible dust is generated, the level of dermal and respiratory protection shall be determined based upon periodic air monitoring to be performed by the Contractor and the requirements of the Site-specific HASP. The Engineer may conduct duplicate air monitoring for quality assurance purposes. Level D protection shall be the minimum personal protective level for all on-site personnel.

APPLICABLE LAWS AND REGULATIONS

The excavation, removal, and transportation of contaminated soil shall be conducted in accordance with the Environmental Protection Agency (EPA) and the Rhode Island Department of Environmental Management (RIDEM) regulations, the RIDEM approved RAWP, and in compliance with all applicable permits.

The Contractor shall ensure that compliance with applicable regulations is maintained during all earthwork operations. The Contractor shall be required to maintain an operations log during the earthwork activities to include, but not be limited to, dates of earthwork activities, dates and times of field sampling, soil management observations, as well as paperwork documenting lawful off-site disposition. In addition to the above, the Contractor is responsible for erosion and pollution controls in accordance with local, State and Federal regulations

as well as what is included in the Contract Documents. The Contractor shall submit a summary report to the Engineer on a daily basis to document the operations associated with earthwork activities.

SUBMITTALS

The Contractor shall maintain copies of the soil excavation plan and operational log. The operational log shall be submitted to the Engineer daily.

Hauling Slips: The Contractor shall prepare slips to document the transportation of the soil from the project to the final disposal site. The slips shall, as a minimum, list the following information: date, truck identification, truck driver's name, approximate quantity of soil hauled, weight, disposal location, and the Engineer's representative's signature. These slips will be prepared in duplicate. The Contractor shall retain one copy, and the second copy will be given to the Engineer at the end of each day in which soil is hauled.

EQUIPMENT/MATERIALS

The Contractor shall supply and utilize all required equipment to adequately complete the contaminated soil excavation. During soil excavation, compost filter socks must be installed around the excavation and to minimize the effects of erosion and surface run-off

The Contractor is required to have the necessary personal protective equipment available as specified in the Contractor's site specific HASP and shall have access to an inventory of personal protection equipment in the event that the level of personal protection equipment needs to be upgraded.

During excavation, the Contractor shall minimize odors by methods including the use of odor suppressant shell material where necessary.

CONTAMINATED SOIL EXCAVATION

The Contractor may choose and implement any effective and lawful method for handling contaminated soil encountered in the work area provided they perform the required excavation subject to the approval of the Engineer. The Contractor shall assume all responsibility for the adequacy of the methods, materials, documentation, and equipment employed.

During excavation of contaminated soil the Contractor shall be required to control dust and sedimentation erosion.

While engaged in contamination/hazardous materials removal, the Contractor shall be subject to on-site inspection by the RIDOT Inspector. If the work is in violation of the requirements of this specification, RIDOT will issue a stop work order to be in effect immediately and until the violation is resolved. Standby time and expenses required to resolve the violation shall be at the Contractor's expense.

The Contractor shall be responsible for obtaining all necessary permits, manifests, and bill of lading documentation in conjunction with contaminated/hazardous material removal, hauling and disposition; and he shall provide timely notification of such actions as may be required by applicable federal, state regional, and/or local authorities. RIDEM shall be notified within 24 hours if an unexpected change of conditions is encountered related to the presence of hazardous wastes or material encountered at the site.

All contaminated soil shall be disposed of at an off-site recycling or disposal facility in accordance with RIDEM regulations for recycling/disposal of these materials. Soil will be identified by Soil Type, based on analytical data in the SIR and Pre-Characterization. All handling and disposal of these materials shall conform to the applicable

RIDEM requirements for handling, storage, transporting, and disposal of contaminated /hazardous waste material. Where specifications, requirements, and reference documents vary, the more stringent requirements shall apply.

Disposal of material shall not be allowed at any facility that currently maintains a listing as a State or Federal waste site.

Contaminated soil classifications under this Contract shall be as follows:

Type 1A Excess project soil that satisfy RIDOT common borrow requirements and are below the Rhode Island Department of Environmental Management (RIDEM) Residential Direct Exposure Criteria (RDEC) through testing for TPH, VOCs, PAHs, and/or RCRA 8 metals, will be reused as backfill. If the soil does not meet either of these requirements and cannot be reused as backfill, the Contractor will remove them from the project site.

Type 1B Excess project soil in which levels of TPH, VOCs, PAHs, and RCRA 8 metals are found to be above the RIDEM RDEC, but within the limits of the I/CDEC, during the process of disposing excess “waste” soil from the project. This soil shall be disposed at a licensed facility. Concentrations are within disposal parameter limits allowed by the Rhode Island Resource Recovery Corporation for materials disposition at the Central Landfill as landfill cover.

Type 2 Project soil in which levels of TPH, VOCs, PAHs, and RCRA 8 metals have been observed above the RIDEM I/CDEC but are within parameters such that the material can be accepted for out-of-state landfill cover or landfilling without pretreatment or that are suitable for asphalt batching.

Type 3 Concentrations exceed the EPA and/or RIDEM hazardous waste characteristics (see Type 3 Soil Criteria attachment) necessitating disposal as hazardous waste.

METHOD OF MEASUREMENT:

Item 202.9902 “LOAD, HAUL AND DISPOSE SOIL, TYPE 1A” will be measured for payment by the “Cubic Yard” for the excess soil that is actually loaded, hauled and disposed in accordance with the Contract Documents and/or as directed by the Engineer.

Item 202.9903 “LOAD, AND HAUL CONTAMINATED SOIL, TYPE 1B” and Item 202.9904 “DISPOSE CONTAMINATED SOIL, TYPE 1B” will be measured for payment by the “Ton” actually loaded and hauled or disposed in accordance with the Contract Documents and/or as directed by the Engineer. The number of tons will be determined from weight slips generated by the receiving disposal facility or other Contractor provided scale approved by the Engineer.

Item 202.9905 “LOAD, AND HAUL CONTAMINATED SOIL, TYPE 2” and Item 202.9906 “DISPOSE CONTAMINATED SOIL, TYPE 2” ” will be measured for payment by the “Ton” actually loaded and hauled or disposed in accordance with the Contract Documents and/or as directed by the Engineer. The number of tons will be determined from weight slips generated by the receiving disposal facility or other Contractor provided scale approved by the Engineer.

Item 202.9907 “LOAD, HAUL AND DISPOSE CONTAMINATED SOIL, TYPE 3” will be measured for payment by the actual cost, verified by the force account records for the facility profiling, loading, transporting and disposing, and invoices from the disposal facility per soil type referenced herein.

BASIS OF PAYMENT:

The accepted quantity of item 202.9902 “LOAD, HAUL AND DISPOSE SOIL, TYPE 1A” will be paid for at its respective contract unit price per “Cubic Yard” for excess soil as listed in the Proposal. The price so stated shall constitute full and complete compensation for all labor, materials, tools, and equipment and all other incidentals required to complete the work as described in these Special Provisions and elsewhere in the Contract Documents, complete in place and accepted by the Engineer.

The accepted quantity of item 202.9903 “LOAD, AND HAUL CONTAMINATED SOIL TYPE 1B” will be paid for at its respective contract unit price per “Ton” as listed in the Proposal. The price so stated shall constitute full and complete compensation for all labor, materials, tools, and equipment and all other incidentals required to complete the work as described in these Special Provisions and elsewhere in the Contract Documents, complete in place and accepted by the Engineer.

The accepted quantity of item 202.9904 “DISPOSE CONTAMINATED SOIL, TYPE 1B” will be paid for at its respective contract unit price per “Ton” as listed in the Proposal. The price so stated shall constitute full and complete compensation for all labor, materials, tools, and equipment and all other incidentals required to complete the work as described in these Special Provisions and elsewhere in the Contract Documents, complete in place and accepted by the Engineer. The only acceptable bid price for item 202.9904 shall be \$15.00 (fifteen dollars) per ton. If the cost of disposing this material charged by the receiving facility is different (higher or lower) than \$15.00/Ton, then the price paid per ton for this item will be adjusted (higher or lower) by that difference in Dollars/Ton.

The accepted quantity of item 202.9905 “LOAD, AND HAUL CONTAMINATED SOIL TYPE 2” will be paid for at its respective contract unit price per “Ton” as listed in the Proposal. The price so stated shall constitute full and complete compensation for all labor, materials, tools, and equipment and all other incidentals required to complete the work as described in these Special Provisions and elsewhere in the Contract Documents, complete in place and accepted by the Engineer.

The accepted quantity of item 202.9906 “DISPOSE CONTAMINATED SOIL, TYPE 2” will be paid for at its respective contract unit price per “Ton” as listed in the Proposal. The price so stated shall constitute full and complete compensation for all labor, materials, tools, and equipment and all other incidentals required to complete the work as described in these Special Provisions and elsewhere in the Contract Documents, complete in place and accepted by the Engineer. The only acceptable bid price for item 202.9906 shall be \$25.00 (twenty five dollars) per ton. If the cost of disposing this material charged by the disposal facility is different (higher or lower) than \$25.00/Ton, then the price paid per ton for this item will be adjusted (higher or lower) by that difference in Dollars/Ton.

The accepted quantity of item 202.9907 “LOAD, HAUL AND DISPOSE CONTAMINATED SOIL, TYPE 3” will be paid for at the actual amount expended to handle, load, transport and dispose of the type of soil. The price so stated shall constitute full and complete compensation for all labor, materials, tools, and equipment and all other incidentals required to complete the work as described in these Special Provisions and elsewhere in the Contract Documents, complete in place and accepted by the Engineer. The estimated dollar figure for this item of work is established by the Department at \$50,000.00 and is inserted in the proposal as an authorized Lump Sum amount from which payments will be drawn.

TYPE 1B AND TYPE 2 SOIL CRITERIA ATTACHMENT

- ^a Estimated quantitation limits
^b Direct exposure criteria for PCBs consistent with the Toxic Substance Control Act (TSCA)
^c Background Levels of Priority Pollutant Metals in Rhode Island Soils, T. O' Connor, RIDEM
^d Direct exposure criteria for Lead consistent with the Rhode Island Department of Health Rules and Regulations for Lead Poisoning Prevention [R23-24.6PB], as amended

Substance	Industrial/Commercial (mg/kg)	Substance	Industrial/Commercial (mg/kg)
Volatile Organics			
Acetone	10,000	Ethylene dibromide (EDB)	0.07
Benzene	200	Isopropyl benzene	10,000
Bromodichloromethane	92	Methyl ethyl ketone	10,000
Bromoform	720	Methyl isobutyl ketone	10,000
Bromomethane	2,900	Methyl-tert-butyl-ether (MTBE)	10,000
Carbon tetrachloride	44	Methylene chloride	760
Chlorobenzene	10,000	Styrene	190
Chloroform	940	Tetrachloroethane,1,1,1,2	220
Dibromochloromethane	68	Tetrachloroethane,1,1,2,2	29
Dibromochloropropane (DBCP)	4.1	Tetrachloroethylene	110
Dichloroethane (1,1-)	10,000	Toluene	10,000
Dichloroethane (1,2-)	63	Trichloroethane,1,1,1-	10,000
Dichloroethene (1,1-)	9.5	Trichloroethane,1,1,2-	100
Dichloroethene (cis-1,2-)	10,000	Trichloroethylene	520
Dichloroethene (trans-1,2-)	10,000	Vinyl chloride	3.0
Dichloropropane (1,2)	84	Xylenes (Total)	10,000
Ethyl benzene	10,000		
Semivolatiles			
Acenaphthene	10,000	Diethyl phthalate	10,000
Acenaphthylene	10,000	Dimethyl phenol, 2,4-	10,000
Anthracene	10,000	Dimethyl phthalate	10,000
Benzo(a)anthracene	7.8	Dinitrophenol, 2,4-	4,100
Benzo(a)pyrene ^a	0.8	Dinitrotoluene, 2,4-	8.4
Benzo(b)fluoranthene	7.8	Fluoranthene	10,000
Benzo(g,h,i)perylene	10,000	Fluorene	10,000
Benzo(k)fluoranthene	78	Hexachlorobenzene	3.6
Biphenyl, 1,1-	10,000	Hexachlorobutadiene	73
Bis(2-ethylhexyl)phthalate	410	Hexachloroethane	410
Bis(2-chloroethyl)ether	5.2	Indeno(1,2,3-cd)pyrene	7.8
Bis(2-chloroisopropyl)ether	82	Methyl naphthalene, 2-	10,000
Chloroaniline, 4- (p-)	8,200	Naphthalene	10,000
Chlorophenol, 2-	10,000	Pentachlorophenol	48
Chrysene	780	Phenanthrene	10,000
Dibenzo(a,h)anthracene ^a	0.8	Phenol	10,000
Dichlorobenzene, 1,2- (o-DCB)	10,000	Pyrene	10,000
Dichlorobenzene, 1,3- (m-DCB)	10,000	Trichlorobenzene, 1,2,4-	10,000
Dichlorobenzene, 1,4- (p-DCB)	240	Trichlorophenol, 2,4,5-	10,000
Dichlorobenzidine, 3,3-	13	Trichlorophenol, 2,4,6-	520
Dichlorophenol, 2,4-	6,100		
Pesticides/PCBs			
Chlordane	4.4	Polychlorinated biphenyls (PCBs) ^b	10
Dieldrin	0.4		
Inorganics			
Antimony	820	Lead ^d	500
Arsenic ^c	7	Manganese	10,000
Barium	10,000	Mercury	610
Beryllium ^c	1.3	Nickel	10,000
Cadmium	1,000	Selenium	10,000
Chromium III (Trivalent)	10,000	Silver	10,000
Chromium VI (Hexavalent)	10,000	Thallium	140
Copper	10,000	Vanadium	10,000
Cyanide	10,000	Zinc	10,000

TYPE 3 SOIL CRITERIA ATTACHMENT

MAXIMUM CONCENTRATION OF CONTAMINANTS FOR THE TOXICITY CHARACTERISTIC BY TCLP

Contaminant	Regulatory Level (mg/L)	Contaminant	Regulatory Level (mg/L)
Arsenic	5.0	Hexachlorobutadien	0.5
Barium	100.0	Haxachloroethane	3.0
Benzene	0.5	Lead	5.0
Cadmium	1.0	Lindane	0.4
Carbon tetrachloride	0.5	Mercury	0.2
Chlordane	0.03	Methoxychlor	10.0
Chlorobenzene	100.0	Methyl ethyl ketone	200.0
Chloroform	6.0	Nitrobenzene	2.0
Chromium	5.0	Pentachlorophenol	100.0
o-Cresol	200.0 ¹	Pyridine	5.0 ²
m-Cresol	200.0 ¹	Selenium	1.0
p-Cresol	200.0 ¹	Silver	5.0
Cresol	200.0 ¹	Tetrachloroethylene	0.7
2,4—D	10.0	Toxaphene	0.5
1,4-Dichlorobenzene	7.5	Trichloroethylene	0.5
1,2-Dichloroethane	0.5	2,4,5-Trichlorophenol	400.0
1,1-Dichloroethylene	0.7	2,4,6-Trichlorophenol	2.0
2,4-Dinitrotoluene	0.13 ²	2,4,5-TP (Silvex)	1.0
Endrin	0.02	Vinyl chloride	0.2
Heptachlor (and its epoxide)	0.008		
Hexachlorobenzene	0.13 ²		

Analyses

Test Methods for the Evaluation of Solid Waste, Physical/Chemical Methods, EPA Publication SW-846, is the source of analytical methods used in the identification and quantification of hazardous wastes for compliance with Subtitle C rules. Outlined below are the SW-846 test methods and corresponding regulatory levels set forth in 40 CFR 261, Subpart C, for characteristic wastes. Analyses are not performed for the identification of the other three categories of wastes.

1. Ignitability:
 - Liquids – a flash point of less than 60° C by test methods including American Society for Testing and Materials (ASTM) Standard D-93-79, D-93-80, or D-3278-78.
 - Non-liquids capable of causing fire at standard temperature and pressure, and burn hazardously when ignited.
 - Compressed gas – ignitable by test methods outlined in 49 CFR 173.300.
 - Oxidizers – test methods outlined in 49 CFR 173.151.
2. Corrosivity:
 - Aqueous solutions with a pH value of less than or equal to 2, or greater than or equal to 12.5 by Method 5.2 in SW-846.
 - Liquids that corrode steel by National Association of Corrosion Engineers Standard TM-01-69.
3. Reactivity: a waste exhibiting any one of the eight properties outlined in Section 261.23 (a).
4. Toxicity: extraction procedure by Method 1311 or total sample analysis. Refer to *Table 7 – Maximum Concentration of Contaminants for the Toxicity Characteristic by TCLP* for analytes and respective regulatory levels.

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CODE L02.9901

FURNISH AND INSTALL WETLAND SEED MIX

DESCRIPTION: The work under this item will consist of furnishing and installing wetland seed mix on prepared wetland soils, and associated mitigation areas at the Wetland Mitigation Area as identified on the Contract Plans.

MATERIALS: The material furnished shall consist of seeds described below. The seeds shall be delivered to the project in labeled and sealed containers. Official seed tags and shipment invoices from the seed suppliers shall be furnished to the Engineer. Seed may be sampled and tested by the State to verify the seed tag information.

The weight of the pure live seed (PLS) is computed by the labeled purity percent times the labeled germination percent times the weight. For example:

Required: 20 pounds of pure live seed of a specified variety.
 Seed Tag data: The variety is 99.41% pure and with 92% germination
 Conversion: 21.9 pounds multiplied by the product of .9941 and .92 equals 20 pounds, which meets the 20 pounds PLS requirement.

The Engineer will inspect each shipment for acceptability, upon delivery to the project.

The seed quality and mixtures are based on pure live seed and shall conform to the following:

Botanical Name	Common Name	Pure Live Seed (PLS) Pounds/Acre
<i>Scirpus atrovirens</i>	Green Bulrush	3.3
<i>Scirpus cyperinus</i>	Wooly Sedge	2.2
<i>Carex vulpinoidea</i>	Fox Sedge	2.2
<i>Glyceria Canadensis</i>	Canada Mannagrass	2.2
<i>Carex lurida</i>	Lurid Sedge	2.2
<i>Eupatoriadelphis maculates</i>	Joe-pye Weed	1.1
<i>Polygonum pennsylvanicum</i>	Pennsylvania Smartweed	1.1
<i>Agrostis stolonifera</i>	Creeping Bentgrass	7.6
	Total lbs/acre	21.9

Unavailability of the specified seed types or mix shall be verified in writing to the Engineer. The substitution of the specified seed requires approval from both DEM and ACOE; Substitutions may not be permitted without written approval from RIDOT's Natural Resources Unit and Landscaping Unit, and the Engineer's approval.

The seed labels and/or containers must indicate the seed was collected from plants grown in New England, and preferably Rhode Island. Seed which has become wet, moldy, or otherwise damaged shall not be used.

CONSTRUCTION METHODS: All areas to be seeded shall be graded and prepared as a friable seed bed. No seeding is to occur in areas of standing water.

Seeding Dates: Seed shall be sown prior to the September 15th fall seeding deadline as stated in Specification L.15.9901, Creation of Wetland Mitigation Area. Permission to extend the planting dates must be requested from the Engineer in writing at least five days before the proposed off-season planting.

Fall seeding dates **August 15th to September 15th**
Spring seeding dates **May 1st to June 15th**

Seeding Method: Seeding shall be done by hand or hydraulic method. The selected mechanical seeder and applicator shall be those which can assure an accurate and uniform seed distribution. All seeding equipment shall be approved by the Engineer.

Seed mixtures shall be sown at the specified seeding rate. Inert carriers may be approved to assure proper distribution.

The seed shall be applied so as to make firm contact with the seedbed which may require hand raking and hand rolling as directed by the Engineer.

Straw mulch shall be applied to each seeded area as soon as possible after seed application. Straw shall be evenly spread at a minimum rate of 2 tons per acre. The applied straw shall be protected from blowing away by use of an approved tackifier or other approved method. No straw is to be applied in areas of standing water. (2 straw bales = approximately 90/lbs/1,000 sq ft)

Immediately after straw mulching operations, water shall be applied with a gentle spray to safeguard against erosion or movement of the crop seed.

Fertilization shall not be used.

Establishment Maintenance: Seeded areas shall be kept reasonably moist with weekly watering through the first 8 weeks unless otherwise specified by the Engineer. Thereafter, adequate watering shall be required in dry periods to prevent wilting of the seedlings. The method of watering shall be such that assures a gentle watering without soil erosion and approved by the Engineer.

The Contactor shall perform any needed work in order to develop and maintain a healthy vegetation cover throughout the duration of the contract. Regularly, scheduled monitoring and follow-up maintenance work, including watering and reseedling as necessary shall be the Contractor's responsibility.

Liability: The Contractor shall be responsible for developing and maintaining an acceptable density of vegetation cover. To be acceptable, a vegetation cover shall show a reasonably thick, uniform stand, free from sizeable areas of thin or bare spots, with a uniform count of at least 10 plants of specified species per square foot.

See specification Code L.06.1000, for "Failure to Perform One-Year Establishment Period."

METHOD OF MEASUREMENT: "Furnish and Install Wetland Seed Mix" will be measured by the square yard, complete in place.

BASIS OF PAYMENT: “Furnish and Install Wetland Seed Mix” The accepted quantity of wetland seed mix will be paid for at the contract unit price per square yard, complete in place. Watering and labor associated with this item is subsidiary. No additional compensation will be made for approved seed distributions. Straw mulch will be paid for under its respective contract item.

If seeding is done at the time other than the specified seeding date, even if an extension of the dates is approved, the entire payment for seeding will be withheld until a uniform acceptable stand of growth is established, as required in any and all environmental approvals, and as determined by the Engineer.

CODE L.15.9901

CREATION OF WETLAND MITIGATION AREA

DESCRIPTION: The work under this item will consist of the creation of a Wetland Mitigation Area at the site identified on the Wetland Mitigation Plan(s).

MATERIALS: N/A

CONSTRUCTION METHODS: The Contractor will notify the Engineer at least ten (10) working days prior to commencement of the work. The Engineer will notify the RIDOT Natural Resources Unit at least eight (8) working days prior to commencement of work to ensure an Environmental Scientist is available to visit the site during work operations.

The Contractor will ensure that all aspects of construction activities outlined in this Specification are included on the Project's required Sequence of Construction, which must be submitted to the Department prior to the Pre-Construction conference. **The Contractor must schedule the creation activities to allow at least one full winter shutdown period (Department's definition) between grading and seeding of the Wetland Mitigation Area and planting of proposed vegetation in the area.** All work required prior to the overwintering period must be performed during a single construction season with no scheduled inactive period of more than five (5) work days. The final grading must be completed in the fall season, and the seeding of the site with the appropriate wetland seed mixture(s) must be completed within that same fall seeding season (fall deadline seeding date-September 15th).

- a) Notify the RIDEM of anticipated date of commencement of work.
- b) Notify US Army Corps of Engineers two weeks before mitigation work begins using the Mitigation Work-Start Notification Form.
- c) Prior to commencement of site alterations, Contractor shall erect or post a sign resistant to the weather and at least twelve (12) inches wide and eighteen (18) inches long, which boldly identifies the initials "DEM" and the application number of the permit. This sign must be maintained at the site in a conspicuous location until such time that the project is complete or the RIDEM issues a Notice of Completion for the project.
- d) An Environmental Compliance Monitor (ECM) hired by RIDOT experienced in wetland restoration and measures necessary to protect sensitive aquatic environments or sensitive ecosystems must be employed prior to the commencement of site alterations to monitor this project and to ensure compliance with the terms and conditions of all permits. The ECM will submit monthly progress reports regarding compliance with any permits until such time that the project is complete.
- e) Delineate and stake out the limits of restoration and mitigation work.
- f) The Environmental Monitor will notify the RIDOT Natural Resources Unit upon completion of staking to ensure compliance with RIDEM's approved plan. This construction sequence assumes that a site inspection will be held by RIDOT for review of staking.

- g) Install temporary erosion and sedimentation controls prior to commencement of any site alterations as shown on the plans. Clearing as needed to access the areas for installation of erosion and sedimentation, may occur concurrent with the installation, provided that no disturbed areas are left unprotected at the end of the work day.
- h) Identify and stake the clearing and grubbing stockpile location(s), as shown on the plans.
- i) Identify construction equipment staging area.
- j) Clear and grub work areas.
- k) Prior to the removal of fill materials, erosion controls will be established.
- l) Any remaining silt fence and stakes at the site from the previous work shall be removed.
- m) Stockpile excavated soils, fill material, and rip-rap, etc. in designated stockpile areas shown on the plans to be transported off-site. Excavation and stockpiling shall be executed in accordance with the Remedial Action Work Plan (RAWP).
- n) Remove all portions of identified invasive plant species including roots, tubers, etc. from within the Wetland Mitigation Areas identified on the site plans. All portions of the invasive plant species must be removed immediately from the project site and disposed of in a legal manner.
- o) Establish subgrade by excavating Wetland Mitigation Areas to a depth of 1 foot below final grade, as shown on the plans. Subgrade must be verified as correct by a Rhode Island registered land surveyor prior to proceeding. Acceptance of the subgrade is dependent on survey verification and environmental laboratory analysis to verify that contaminants have been removed from the site in accordance with the RAWP. Over-excavation may be required to satisfy the requirements of the RAWP. Interim surveys may be required as directed by the Engineer.
- p) Place tested and approved Wetland Topsoil over approved subgrade to the final grade(s) shown on the Wetland Mitigation Plan(s). Approved Wetland Topsoil will be placed according to Specification L01.9901 Furnish and Install Wetland Topsoil, and special care will be taken to ensure Construction Methods are followed to provide microtopography.
- q) An irregular ground surface is to be constructed per direction of the Engineer as shown on the detail sheet. No raking of the mitigation area is to occur.
- r) Place four inches of Plantable Soil over all side slopes above the elevation specified on the plans.
- s) Written certification must be provided by the Contractor for submission to the RIDEM by a Rhode Island registered land surveyor that excavation and grading associated with all restoration activities have been accomplished as permitted. Such certification shall be submitted to the RIDOT NRU for forwarding to RIDEM within twenty (20) days of the completion of the required excavation and grading.
- t) Once the surface grades have been reestablished to meet existing conditions, the wetland portions of the site will be seeded with a wetland seed mix in accordance with L02.9901

Wetland Seed Mix and as shown on the plans. All disturbed areas will be seeded with a wetland seed mix as appropriate to provide additional soil stabilization.

- u) Upland portions of the site will be seeded with a soil stabilization mix to provide cover and erosion control in accordance with L.02 Seeding. All disturbed areas will be seeded with an upland seed mix to provide additional soil stabilization.
- v) Allow overwintering (RIDOT defined winter shutdown period) after the seeding for the areas to stabilize prior to planting the following spring.
- w) If the hydrology of the constructed area does not appear to meet the goals of the mitigation (i.e., too dry, too wet, etc.) as determined by the Environmental Monitor then the Contractor may be required to undertake adaptive management actions determined in consultation with the RIDOT and RIDEM/ACOE as soon as possible.
- x) Following verification of proper hydrology, initiate and complete the planting during the spring, in accordance with the plans. All planting will be coordinated with the RIDOT Natural Resources Unit and the Landscape Architecture Unit. The Contractor/Engineer will notify them at least eight (8) working days prior to planting.
- y) The outlines of planting zones shown on plans will be staked out on the ground by the Contractor and approved by RIDOT Environmental Scientist and Landscape Architect.
- z) Notify the RIDEM in writing upon completion of the required plantings for compliance inspection by a RIDEM program representative.
- aa) Haul and distribute the woody debris and boulders randomly throughout the Wetland Mitigation Areas. This material will be placed to cover at least 1%, but not more than 5% of the Wetland Mitigation Areas below elevation specified on the Plans.
- bb) Water new plantings, as required, during the plant establishment period in accordance with L.06.03.7 Planting. New seeding should be watered in accordance with L.02.03.7 Seeding.
- cc) Upon soil stabilization, remove the temporary sedimentation and erosion control measures in accordance with Section 206 Perimeter Erosion Controls.
- dd) Demobilize. Remove all stockpiled materials off-site.

METHOD OF MEASUREMENT: "CREATION OF WETLAND MITIGATION AREA" will be measured by the unit lump sum "LS".

BASIS OF PAYMENT: "CREATION OF WETLAND MITIGATION AREA" will be paid for at the contract unit price of lump sum, "LS". The work will include full compensation for hauling and distributing the woody debris and boulders from the Clearing and Grubbing stockpile, removal and disposal of invasive plant species including but not limited to the complete removal of all portions of the plant, including seeds, roots/tubers, and fragments, overwintering period, a report which lists all documented species listed on site, and for all other labor, tools, materials, equipment, and incidentals necessary to complete the work. The work will include survey to establish grades and obtain RIDOT NRU and RIDEM approval prior to seeding and/or planting. The disposal of the invasive species shall be at a licensed landfill or composting facility, with appropriate documentation.

The cost for Stockpiling the Clearing and Grubbing Material (including the delineation and staking) will be paid for under its respective contract item.

The cost for Furnishing and Installing Wetland Topsoil will be paid for under its respective contract item.

The cost for Plantable Soil will be paid for under its respective contract item.

The cost of Installing, Maintaining and Removing Sedimentation and Erosion Controls, including Sedimentation Control Systems, shall be paid for under their respective contract items.

The cost for all Excavation from below stripped topsoil down to subgrade will be paid for under the contract item "Earth Excavation".

All Plantings will be paid for under their respective contract items.

Seeding within the Wetland Mitigation Area will be paid for under their respective contract items.

SPECIAL NOTICE

PROPOSAL

Project Name - Wellington Ave Br Mitigation Phase II (FRIP C-2B)

Estimate Name - FINAL ESTIMATE

R.I. Contract No. - 2013-CB-032

FAP Nos - STP-FRIP(260)

All items in the Proposal must have a unit bid price in words and figures. All unit bid prices must be extended. Bids will not be accepted if they contain no unit price for an item or if they contain zero in words and figures as the unit price bid.

The minimum acceptable bid price for:

Code 212.2000, CLEANING AND MAINTENANCE OF EROSION CONTROLS is Four Thousand Dollars And No Cents (\$4,000.00) per LS

Code 907.0100, WATER FOR DUST CONTROL is Fourteen Dollars And Fifty Cents (\$14.50) per MGAL

Code 914.5010, FLAGPERSONS is Forty One Dollars And Ten Cents (\$41.10) per MHRS

Code 914.5020, FLAGPERSONS - OVERTIME is Fifty One Dollars And Thirty Eight Cents (\$51.38) per MHRS

Code 937.0200, MAINTENANCE AND MOVEMENT TRAFFIC PROTECTION is Ten Thousand Dollars And No Cents (\$10,000.00) per LS

Code 943.0200, TRAINEE MAN-HOURS is Six Dollars And No Cents (\$6.00) per MHRS

The only acceptable bid price for:

Code 202.9904, DISPOSAL OF CONTAMINATED SOIL, TYPE 1B is Fifteen Dollars And No Cents (\$15.00) per TON

Code 202.9906, DISPOSAL OF CONTAMINATED SOIL, TYPE 2 is Twenty Five Dollars And No Cents (\$25.00) per TON

Code 202.9907, LOAD, HAUL AND DISPOSE CONTAMINATED SOIL, TYPE 3 is Fifty Thousand Dollars And No Cents (\$50,000.00) per LS

Items preceded with the letter "S" in the proposal are Specialty Items.

Proposal Items

Project Name - Wellington Ave Br Mitigation Phase II (FRIP C-2B)

Estimate Name - FINAL ESTIMATE

R.I. Contract No. - 2013-CB-032

FAP Nos - STP-FRIP(260)

 Note: The UNIT PRICE for each Item must be written in words and figures.

No.	Item Code	Quantity	Description	Unit	Unit Bid Price \$0.00	Amount (PxQ) \$0.00
008	202.0700	1,359.00	COMMON BORROW			
AT				CY		
009	202.9901	1.00	HANDLING, HAULING, AND STOCKPILE MANAGEMENT OF CONTAMINATED MATERIALS			
AT				LS		
010	202.9902	5,972.00	LOAD, HAUL AND DISPOSE SOIL, TYPE 1A			
AT				CY		
011	202.9903	11,856.00	LOAD AND HAUL CONTAMINATED SOIL, TYPE 1B			
AT				TON		
012	202.9904	11,856.00	DISPOSAL OF CONTAMINATED SOIL, TYPE 1B			
AT	Fifteen Dollars And No Cents			TON	\$15.00	\$177,840.00
013	202.9905	2,024.00	LOAD AND HAUL CONTAMINATED SOIL, TYPE 2			
AT				TON		
014	202.9906	2,024.00	DISPOSAL OF CONTAMINATED SOIL, TYPE 2			
AT	Twenty Five Dollars And No Cents			TON	\$25.00	\$50,600.00

Proposal Items

Project Name - Wellington Ave Br Mitigation Phase II (FRIP C-2B)

Estimate Name - FINAL ESTIMATE

R.I. Contract No. - 2013-CB-032

FAP Nos - STP-FRIP(260)

 Note: The UNIT PRICE for each Item must be written in words and figures.

No.	Item Code	Quantity	Description	Unit	Unit Bid Price \$0.00	Amount (PxQ) \$0.00
015	202.9907	1.00	LOAD, HAUL AND DISPOSE CONTAMINATED SOIL, TYPE 3			
AT	Fifty Thousand Dollars And No Cents			LS	\$50,000.00	\$50,000.00
016	204.0100	12,601.00	TRIMMING AND FINE GRADING			
AT				SY		
017	206.9901	4,128.00	18" COMPOST FILTER SOCK			
AT				LF		
018	212.2000	1.00	CLEANING AND MAINTENANCE OF EROSION CONTROLS			
AT				LS		
019	824.0421	67,300.00	AASHTO M270 GRADE 50 STEEL FURNISH FAB. & ERECT ROLLED SIMPLE SPANS			
AT				LBS		
020	824.9901	3,400.00	WALKWAY GRATING			
AT				SF		
021	825.8041	1.00	PAINTING EXISTING STRUCTURAL STEEL			
AT				LS		

Revised: 2/19/2002

Total or gross sum of bid for Rhode Island Contract Number: 2013-CB-032

Federal-Aid Project Number(s): STP-FRIP(260)

WRITTEN IN WORDS:

The undersigned bidder declares that this Proposal is made without connection with any other person or persons making proposals for the same work, and is in all respects fair and without collusion or fraud. The undersigned bidder submits herewith, a proposal guarantee in the form of a bid bond in favor of the State of Rhode Island in the amount of 5% of the total or gross sum of the bid and agrees and consents that the proposal guarantee shall be forfeited to the State as liquidated damages if the required contract agreement and contract bond are not executed within ten(10) days of the notice of award. All surety companies must be listed with The Department of the Treasury, Fiscal Services, Circular 570, (Latest Revision published by The Federal Register). The State reserves the right to retain the surety of all bidders until the successful bidder enters into the Contract or until such time as the award or cancellation of the Contract is announced at which point Sureties will be returned to all bidders by the State of Rhode Island, Office of Purchases. The undersigned bidder further agrees, if awarded the contract on this proposal, to begin work within ten (10) calendar days after the date of execution of the contract unless otherwise specified under special provisions or permitted by the Engineer, and further agrees to complete the work on or before the dates outlined in the Contract Documents.

COMPLETION DATE(S)

DESCRIPTION	DATE
Bid-Opening Date	February 27, 2013
Phase 1 (Item 1) Interim Completion Date	September 15, 2013
Phase 2 Interim Completion Date	April 30, 2014
Substantial Completion Date	October 15, 2014

THE BIDDER ACKNOWLEDGES RECEIPT OF THE FOLLOWING:

ADDENDA	DATE POSTED	DOCUMENT(S)	PAGE
NO.1	February 14, 2013	1. Status Certification for: Debarment, Eligibility, Indictments, Convictions or Civil Judgements	1
NO.2	February 18, 2013	2. Anti-Collusion Certificate	2
NO.3	February 21, 2013	3. Disclosure of Lobbying Activities	3