Stormwater Pollution Prevention Plan

For Stormwater Discharges Associated with Construction Activity Under the RIPDES Construction General Permit

For:

Rhode Island Recycled Metals, Inc.
Assessors Plot 47 Lot 601
434 Allens Avenue
Providence, RI 02903

Owner:

ACR Realty, LLC
15 Branch Pike
Smithfield, RI 02917
(401) 232-2040

Operator(s):

Rhode Island Recycled Metals
Edward Sciaba, Jr.
434 Allens Avenue
Providence, RI 02903
617-293-8700

SWPPP Contact(s):

CONECO
Engineers, Scientists & Surveyors

4 First Street • Bridgewater, Massachusetts 02324

Phone: (508) 697-3191 • Fax: (508) 697-5996
E-mail: mailto:SOates@coneco.com

8/24/12

DAVID A. HARRINGTON
STATE OF RHODE ISLAND
No. 9214
HOPE
REGISTERED PROFESSIONAL ENGINEER (CIVIL)

SWPPP Preparation Date:

08/31/2011 by Garofalo and Associates, Inc.
Revised 08/23/2012 by Coneco Engineers & Scientists, Inc.

DISCLAIMER

The report body contained herein is based on the RI Model SWPPP Template, made available by the State of Rhode Island Department of Environmental Management Office of Water Resources.

Site-specific data contained herein is based on the Stormwater Pollution Prevention Plan for Rhode Island Recycled Metals, Inc., produced by Garofalo & Associates, Inc., originally dated June 21, 2011 and amended through August 31, 2011. These materials are on file and may be reviewed at:

Rhode Island Department of Environmental Management
Office of Water Resources
RIPDES Permitting
235 Promenade Street
Providence, RI 02908-5767

OWNER CERTIFICATION

I certify under penalty of law that this document and all attachments were 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.

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 SWPPP as appropriate in accordance with the requirements of the RIPDES Construction General Permit.

Owner Signature: Date

Owner Name: Antonio Ramos

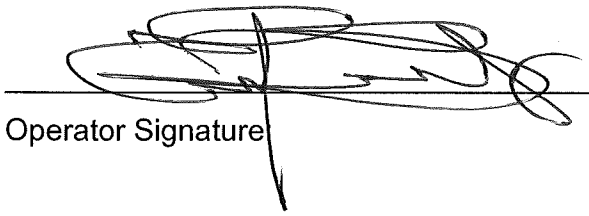
Owner Title: Sole Member

Company Name: ACR Realty, LLC.

OPERATOR CERTIFICATION

I certify under penalty of law that this document and all attachments were 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.

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 SWPPP as appropriate in accordance with the requirements of the RIPDES Construction General Permit.



Operator Signature

8/24/12

Date

Operator Representative: Edward Sciaba, Jr.

Title: Applicant/Operator

Company Name: Rhode Island Recycled Metals

Table of Contents

INTRODUCTION

This Construction Site Stormwater Pollution Prevention Plan (SWPPP) has been prepared for ACR Realty, LLC for the Rhode Island Recycled Metals (RIRM) site improvements project. 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), projects that disturb one (1) or more acres require the preparation of a SWPPP. This SWPPP 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 and sedimentation best management practices (BMPs) is to prevent pollutants from leaving the construction site and entering waterways or environmentally sensitive areas during and after construction. This SWPPP has been prepared prior to the initiation of construction activities to address anticipated worksite conditions. The best management practices (BMPs) 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 SWPPP during construction to address varying site and/or weather conditions, such as by adding or realigning erosion or sediment controls, to ensure the SWPPP remains compliant with the RIPDES Construction General Permit. Records of these changes must be added to the amendment log attached to the SWPPP, 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 and sedimentation are effectively controlled throughout the entire site.**

It is the responsibility of the site owner and the site operator to maintain the SWPPP, including all attachments, amendments and inspection records, at the site and to make all records available for inspection by RIDEM during and after construction. (RIPDES Construction General Permit – Section II.A.)

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

Any questions regarding the SWPPP, BMPs, 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

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* (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

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 SWPPP 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

RIPDES Construction General Permit – Section IV.E.1

1.1 Project/Site Information

Project/Site Name:

- Rhode Island Recycled Metals (RIRM)
- The facility located at 434 Allens Avenue (see the General Location Maps in Appendix A) operates as a scrap facility which processes and recycles ferrous and non-ferrous metals, specializing in used boats and marine scrap recycling. The 5.80-acre parcel, located on the western bank of the Providence River, consists mainly of hard packed gravel areas with several scattered concrete pads, site buildings and trailers for disassembly of equipment to be recycled. There is currently no stormwater management system located on-site. Stormwater runoff is contained on site or flows overland southeasterly, discharging into the Providence River.

Project Street/Location:

- 434 Allens Avenue, Providence RI 02903
- Refer to Appendix A for the General Location Maps

1.2 Nature and Sequence of Construction Activity

- The proposed site work consists of the construction of a concrete pad, which will be sloped to direct stormwater runoff to a proposed stormwater management system consisting of catch basins and trench drains, routed through pipes to a Stormceptor water quality unit, stored in subsurface detention pipes, treated by a StormwateRx pressurized recirculating sand filter and ultimately being discharged to a flared end section with stone protection onto the bank of the Providence River.

  Due to equipment delivery schedule constraints, construction will begin at the shredder building area with the drilling and installation of support piles and structure foundation. The shredder building will then be constructed and prepared for arrival of the Ing. Bonfiglioli 'Drake' mill/shredder. Next, the gravity-dependent drainage BMP's and piping will be installed, followed by the StormwateRx 'Retenu' sand filter unit and armored flared end/plunge pool outlet. The concrete containment pad will be formed and poured, and will be allowed to cure while new weight scales, control building, and vehicle decommission building are being constructed. Extension of the existing railway will be completed, followed by the wider front entrance, front landscaping, decorative retaining walls and fence. Following appropriate as-built surveying and inspections by local and state offices, the project will be completed 3 ½ (THREE AND ONE-HALF) MONTHS from initial construction start-up.

  Refer to the construction schedule table below, as well as the Construction Sequencing and Erosion Control Plan within Appendix B, for further details.

Estimated Project Start Date:	August 29, 2012
Estimated Project Completion Date:	December 14, 2012
Estimated Number of Months:	3 ½

Construction Milestone	Estimated Start Date	Estimated Completion Date
Phase 1, 2, 3 – Shredder Area		
Layout	August 29, 2012	August 30, 2012
Construction Entrance Installation	August 29, 2012	August 30, 2012
Clearing/Excavation	August 30, 2012	August 31, 2012
Support Pile Installation	September 4, 2012	September 11, 2012
Form & Pour Foundation	September 12, 2012	September 14, 2012
Construction of Shredder Enclosure	September 17, 2012	October 5, 2012
Delivery, Installation, & Operation of Bonfiglioli Shredder	October 9, 2012	October 12, 2012
Phase 4 – Gravity-Fed Drainage Components		
Clearing	September 17, 2012	September 17, 2012
Layout	September 17, 2012	September 18, 2012
Demolition/Excavation	September 19, 2012	September 24, 2012
Catch Basins/Drain Pipe Installation	September 21, 2012	September 26, 2012
Backfill and Repair of Cap (if Necessary)	September 27, 2012	October 1, 2012
Phase 5 – Pumped Drainage Components and Outlet		
Clearing	October 1, 2012	October 1, 2012
Layout	October 2, 2012	October 2, 2012
Form and Pour Pad for Unit	October 3, 2012	October 4, 2012
Installation and Calibration of Retenu Unit and Piping	October 9, 2012	October 11, 2012

Construction Milestone	Estimated Start Date	Estimated Completion Date
Installation of Flared End Section and Armored Plunge Pool	October 11, 2012	October 12, 2012
Phase 6 –Concrete Containment Pad		
Clearing	October 15, 2012	October 16, 2012
Perimeter Layout	October 16, 2012	October 17, 2012
Grading and Excavation	October 17, 2012	October 19, 2012
Form & Pour Concrete Pad	October 23, 2012	October 25, 2012
Casting Adjust	October 26, 2012	October 26, 2012
Phase 7 – Weight Scales and Control House		
Layout	October 29, 2012	October 29, 2012
Regrading and Excavation	October 30, 2012	October 31, 2012
Installation of Weight Scales and Wiring	November 1, 2012	November 5, 2012
Control House Construction and Wiring	November 6, 2012	November 8, 2012
Form and Pour Concrete Pad for Vehicle Decommission Building	November 8, 2012	November 9, 2012
Decommission Building Construction and Wiring	November 12, 2012	November 15, 2012
Phase 8 – Railway Extension		
Layout	November 19, 2012	November 20, 2012
Surface Preparation and Fine Grading	November 21, 2012	November 26, 2012
Laying Rail and Ties	November 27, 2012	November 30, 2012
Phase 9 – Front Area Improvements		
Clearing Existing Fence and Frontage Area	November 29, 2012	November 30, 2012
Layout	December 3, 2012	December 3, 2012
Demolition/Excavation/Grading at Existing Entrance	December 3, 2012	December 4, 2012

Construction Milestone	Estimated Start Date	Estimated Completion Date
Lay New Pavement/Reset Curb	December 5, 2012	December 6, 2012
Install Retaining Wall and Permanent Fence	December 7, 2012	December 10, 2012
Install Landscaping and Signage	December 10, 2012	December 11, 2012
General		
Cleanup	December 11, 2012	December 12, 2012
Remove Haybales	December 12, 2012	December 12, 2012
Loam & Seed	December 13, 2012	December 13, 2012
Demobilization	December 14, 2012	December 14, 2012

1.3 Existing and Proposed Soils, Slopes, Vegetation, and Drainage Patterns

Soil type(s):

- The majority of the property's upland soil area is listed as Udorthents – Urban Land Complex. Along the southeastern border on the bank of the Providence River is a strip of Matunuck Mucky Peat. Neither of these soils have a listed erodibility hazard as listed in the Natural Resources Conservation Service Rhode Island Soil Survey Program (IV.E.1.e).

Slopes:

- Existing: The existing grade of the site slopes southeasterly from Allens Avenue toward the Providence River at grades of 2% or less.
- Proposed: The grading of the majority of the site will remain the same as the existing conditions. The proposed concrete slab will be graded to direct stormwater runoff towards the proposed catch basins and trench drain, at slopes of 2% or less.

Vegetation/Impervious Area:

- Existing: The majority of the site is packed gravel and unvegetated. Very sparse brush exists on the banks of the river, outside the facility's area of activity. Several small areas of cracked pavement and concrete currently exist around the site.
- Proposed: Approximately 116,000 square feet of the existing packed gravel area will be replaced with the proposed 8-inch thick concrete pad. The compacted gravel entrance area will remain, as well as the existing buildings and concrete pad along the south property line. The small area between the edge of the proposed concrete pad and the haybale erosion control line shall be replaced with loam and seed. Landscaping shall also be added to the front of the site along Allens Avenue.

Drainage Patterns:

- Existing: Since there is no existing stormwater management system, runoff generally flows overland easterly and southeasterly from Allens Avenue into the Providence River. Much of the stormwater runoff from the gravel areas is infiltrated.

- Proposed: Runoff on the proposed concrete pad will be directed to the proposed catch basins and trench drain where it will be routed through the proposed stormwater management system before discharging on the southeasterly bank of the site into the Providence River. The area toward the front of the site that is to remain gravel will partially flow onto the pad and into the drainage system, and partially infiltrate as in the existing condition.

1.4 Construction Site Estimates

The following are estimates of the construction site:

Total Project Area	5.80 acres (land) 5.65 acres (water)
Construction Site Area to be disturbed	2.67 acres
Percentage impervious area before construction	16.7 %
Runoff coefficient before construction	81
Percentage impervious area after construction	61.9 %
Runoff coefficient after construction	95

1.5 Receiving Waters

List/description of receiving waters:

- All rainfall leaving the site will enter the Providence River which discharges to the Narragansett Bay.

List/description of separate storm sewer systems:

- No runoff from the site enters any separate storm sewer or drainage systems in the area.

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

- Site runoff discharges to the Providence River (RI0007020E-01B), an impaired water as listed in the State of Rhode Island 2010 303(d) List of Impaired Waters. Identified impairments are total nitrogen, dissolved oxygen, and fecal coliform.

1.6 Allowable Non-Stormwater Discharges

Discharges not comprised of stormwater are allowed under the RIPDES Construction General Permit but are limited to the following: discharges which result from the washdown of vehicles where no detergents are used; external building washdown where no detergents are used; the use of water to control dust; firefighting activities; fire hydrant flushings; natural springs; uncontaminated groundwater; lawn watering; potable water sources including waterline flushings; irrigation drainage; pavement washwaters 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; and 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 listed here. (IV.E.1.g)

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

☒ Yes ☐ No

If yes, list the sources of allowable non-Stormwater discharge (be sure to include all dewatering activity discharges). If applicable, control measures must be documented in Section 2.12 &/or Section 3.4.

List of allowable non-stormwater discharges:

- The use of water to control dust
- Dewatering associated with construction activity
- Lawn watering

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 : N/A
- RIPDES Remediation General Permit Authorization number: N/A

1.7 Existing Data of Known Discharges from Site

Are there known discharges from the project area?

☐ Yes ☒ No

Describe how this determination was made:

- Review of RI DEM Environmental Resource Map RIPDES Discharge Outfalls data layer as well as a site visit to verify that there are no outfalls/ discharges.

If yes, list discharges and locations:

- N/A

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

☐ Yes ☐ No

If yes, provide data:

- N/A

1.8 Natural Heritage Area Information

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.

- The site is not within and doesn't directly discharge to a Natural Heritage Area as shown on the RIDEM NHA maps.

1.9 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:

- There are no historic properties, cemeteries or cultural resources on or near the site as shown on the RIDEM Environmental Resource Map.

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

1.10 Site Features and Sensitive Areas to be Protected

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

- All proposed work to the site will occur in previously disturbed areas. A haybale erosion control barrier shall be installed at the limits of work to protect undisturbed and sensitive areas.

1.11 Potential Sources of Pollution

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

1.12 SWPPP Site Maps

Two General Location Maps may be found in Appendix A. The first is a wide-view Locus map of the site and surrounding Providence Harbor area. This map is at a scale of 1 inch:2,000 feet, with the site itself highlighted in red at the center. The second is an aerial photograph recently taken of the site, set at a scale of 1 inch:150 feet. The site boundary is again highlighted in red.

Appendix B contains the 8-sheet Construction Period SWPPP Site Plans. This plan set was based off of the previously-submitted Materials Layout Plan by Garofalo and Associates, Inc. of Providence, R.I., dated February 2, 2012. The predominant amendment to these original plans is the redesign of the proposed stormwater treatment system. The level of detail was also raised, and the revised plans now contain a dedicated existing condition, proposed site layout, proposed grading and drainage, construction sequencing and erosion control, and multiple construction detail sheets.

The appended SWPPP Site Maps contain the following elements:

- ☒ SWPPP plan set scale should have no less detail than 1" = 100'
- ☒ A minimum contour interval of 2' must be utilized.
- ☐ Total area of development and area of soil disturbance
- ☐ Pre- and post-development drainage patterns
- ☐ Approximate slopes anticipated after the completion of major grading activities
- ☐ The location and name of the receiving waters or separate storm sewer system and the ultimate receiving waters, including wetlands
- ☐ Direction(s) of stormwater flow
- ☐ 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)
- ☐ Location of environmentally sensitive features/areas that will not be disturbed (i.e. endangered species habitats, historic sites, natural heritage areas, Qualified Pervious Areas (QPAs))
- ☐ Boundaries of existing predominant vegetation
- ☐ Proposed limits of disturbance.
- ☒ Construction site property lines.
- ☒ Location of existing and proposed roads, buildings, and other structures.
- ☒ The location of all impervious structures
- ☐ Location of existing and proposed conveyance systems such as grass channels and swales
- ☐ Locations and timing of stabilization measures
- ☐ Locations of construction staging and material stockpiling areas
- ☒ The location of all erosion and sedimentation stormwater control structures and BMPs, including the location of any temporary or permanent retention or detention basins or other water quality control structures
- ☐ Locations of all non-structural BMPs 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 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 any necessary spill prevention and response equipment

SECTION 2: EROSION & SEDIMENTATION CONTROLS

RIPDES Construction General Permit – Section IV.E.2.a

The purpose of erosion controls is to prevent sediment from moving onto, around, or off of the construction site. Properly installed and maintained erosion controls are the primary defense against sediment pollution.

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

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

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.

Please note: The operator should initiate appropriate vegetative 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, unless the activity is to resume within twenty one (21) days. See Section IV.E.2.a.i of the RIPDES Construction General Permit.

2.1 Minimize Disturbed Area and Protect Natural Features and Soil

As far as is practicable, existing vegetation shall be protected and left in place, in accordance with the extent of work 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.

2.2 Phase Construction Activity

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

1. Installation of all erosion and sediment controls 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) or the RI Department of Transportation Standard Specifications for Road and Bridge Construction (as amended). Upon acceptable completion of site preparation and installation of erosion and sediment controls, site construction activities may commence. Routine inspection and maintenance and/or modification of erosion and sediment controls while earthwork is being done are required.

2. 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, unless the activity is to resume within twenty one (21) days.
3. Final stabilization of any disturbed areas after earthwork has been completed.

2.3 Phased Clearing/Grubbing

Only areas that can be reasonably expected to have active construction work being performed within 21-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 21-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 21 day time frame.

No undisturbed areas shall be cleared of existing vegetation after October 15th 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 site operator or designated 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 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).

2.4 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 BMPs 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:

- College Hill, Providence

2.5 Initiating Stabilization Practices

As per RIPDES Construction General Permit Section IV.E.2.a: Upon completion and acceptance of site preparation and initial installation of erosion and sediment controls 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, unless the activity is to resume within twenty one (21) days.

2.6 Control Stormwater Flowing Onto and Through the Project

Structural BMPs 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.

BMPs 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.

2.7 Stabilize Soils

Any disturbed areas that will not have active construction activity occurring within twenty one (21) days must be stabilized using the BMPs 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) or the RI Department of Transportation Standard Specifications for Road and Bridge Construction (as amended).

- All disturbed areas not being replaced with crushed stone or concrete shall be loamed and seeded.

2.8 Protect Slopes

Slopes that will have concentrated stormwater flow must be protected using the BMPs depicted on the approved plan set and in accordance with the specifications outlined 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).

If the slope stabilization BMPs fail and erosion occurs, then alternative control measures may be used, upon approval of the site owner, which may include compost filter socks, fiber rolls, gravel bag berms, erosion control mats/blankets, and temporary vegetative cover.

2.9 Protect Storm Drain Inlets

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 catchbasins that are operational during construction and may receive sediment-laden stormwater flow from the construction site must be protected using any of the BMPs outlined 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).

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

- Siltsack catch basin inserts shall be used to protect storm drain inlets and remain in-place and maintained until construction is complete and site is stabilized. Refer to plans for details.

2.10 Protect Storm Drain Outfalls

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

All stormwater outfalls that may discharge sediment-laden stormwater flow from the construction site must be protected using the BMPs 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 (as amended).

Possible temporary control measures that may be used include hay bale & silt fence protection, compost filter socks or fiber rolls.

- The proposed flared end section shall have riprap stone protection to capture any sediment and debris from flowing into the Providence River.

2.11 Establish Perimeter Controls and Sediment Barriers

Perimeter controls shall be installed, and maintained, 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 (as amended).

If the Baled Hay &/or Silt Fence erosion checks fail to contain the sediment on-site, then alternative control measures may be substituted with approval of the site owner. Such measures may include (but are not limited to) compost filter socks or straw wattles (fiber rolls).

- Perimeter controls consisting of haybales are to be utilized for the project. Refer to plan set for location.

2.12 Retain Sediment On-Site and Control Dewatering Practices

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.

A sediment trap or basin shall be installed, and maintained, 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 (as amended).

The dewatering of non-contaminated non-stormwater (i.e. groundwater) or accumulated precipitation discharge of sediment-laden water into storm drains, streams, lakes or wetlands prior to sediment removal is prohibited. A sediment trap or basin shall be installed, and maintained, 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 (as amended).

The dewatering of contaminated non-stormwater cannot be discharged without obtaining a Rhode Island Department of Environmental Management RIPDES discharge permit to do so. If dewatering of contaminated water is anticipated at the site, appropriate permits must be obtained in advance.

2.13 Construction Site Erosion and Sediment Control BMPs

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

Location/Station	BMP Description/ Reference	Maintenance Requirement	Phase Installed
Perimeter	**Straw/Hay Bales. Chapter Five, Section F, RI Soil Erosion and Sediment Control Handbook.**	Inspection should be made after each storm event and repair or replacement should be made promptly as needed. Cleanout of accumulated sediment behind the bales is necessary if ½ of the original height of the bales becomes filled in with sediment.	Existing, VI, VIII, IX
Catch Basin and Trench Drain Inlets	**Haybale/Siltsacks**	Inspection should be made after each storm event for rips/tears and replacement should be made promptly as needed. Cleanout of accumulated sediment in siltsack is necessary if sediment depth exceeds 6".	Phase IV

SECTION 3: GOOD HOUSEKEEPING BMPS

RIPDES Construction General Permit – Section IV.E.2.c

The purpose of good housekeeping is to prevent daily construction activities from causing pollution.

This section describes the key good housekeeping and pollution prevention measures that will be implemented to control pollutants in stormwater. Example BMPs 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 Off-site Tracking of Sediments

Each site shall have graveled access entrance and exit drives and parking areas to reduce the tracking of sediment onto public or private roads. IV.E.2.c.i

Any construction site access point must employ the BMPs 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 (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.

If a Construction Entrance BMP is not designated on the plans, it is still the responsibility of the Operator to ensure that no sediment is tracked off of the construction site by any vehicles leaving the site. Additional control measures that may be used, upon approval of the site owner, include a vehicle washing station and/or daily street sweeping.

The Operator shall remain responsible for the clean-up of any mud or dirt that is tracked onto streets or paved areas, even with the installation of gravel construction entrances. Inspect access for excessive sediment build up. Remove sediment and rebuild the exit as necessary to retain effectiveness and prevent off-site tracking. Additional street cleaning may be required if unable to retain sediment on site.

- Construction exit is located at the site entrance to capture sediment from being tracked off-site. See plan set for detail of construction exit.

3.2 Waste Disposal

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. IV.E.2.c.ii

- 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 water body 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 overfilling.

- All construction site wastes shall be collected, removed, and disposed of in accordance with applicable regulatory requirements and only at authorized disposal sites.

- 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.

3.3 Spill Prevention and Control Plan

Spills and leaks shall be avoided through frequent inspection of equipment and material storage areas. Heavy equipment and other vehicles shall be routinely inspected for leaks and repaired as necessary. Material storage areas shall be routinely inspected for leaky containers, open containers, or improper storage techniques that may lead to spills or leaks. Appropriate cleanup procedures and supplies shall be available on-site and should be clearly marked so that all personnel can locate and access these supplies quickly. IV.E.2.c.iii

Spills shall be cleaned up immediately and following proper response procedures and in accordance with any applicable regulatory requirements. At no time shall spills be cleaned and flushed down storm drains or in to any environmentally sensitive area (i.e. stream, pond, wetland).

Equipment/vehicle fueling and repair/maintenance operations or hazardous material storage shall not take place within regulated wetlands or buffer zone areas. Designated areas shall be approved by the site owner.

- Refer to the Standard Operating Procedure: Oil & Hazardous Material Spill Response, located on site and on file with RI DEM for a complete description of spill response practices.

3.4 Control of Allowable Non-Stormwater Discharges

For the allowable non-stormwater discharge(s) associated with construction activity identified in Section 1.6, describe controls and measures that will be implemented at those sites to minimize pollutant contamination. IV.E.2.c.iv

For contaminated non-stormwater discharge(s), the requirements and regulations of the associated RIPDES individual permit or RIPDES Remediation General Permit must be adhered to at all times.

- Water to be used as dust control shall be completely captured on-site within the temporary haybale/silt fence perimeter during construction. Post-construction water for dust control shall drain to the proposed stormwater treatment train.
- Dewatering efforts during construction shall discharge back onsite into approved temporary dewatering basins.
- The watering of lawn areas shall take place within the site haybale/silt fence perimeter to minimize any off-site runoff.

3.5 Establish Proper Building Material Staging Areas

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 water courses.

Stockpiles of any material shall not be located within regulated wetlands or buffer zone areas. They shall have side slopes no greater than 30% and stockpiles of erodible material shall be seeded and ringed with berms, dikes, fiber rolls, compost socks, sandbag, gravel bags or any other equivalent perimeter control 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).

If soil stockpiles are not stabilized with vegetation, then they must be securely covered at the end of each workday.

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.

3.6 Designate Washout Areas

Concrete mixer trucks and chutes will be washed in a designated area or concrete wastes will be properly disposed of off-site. Washout areas for concrete, shall be designated on the Approved Plans, or approved of by the site owner. Any concrete washout area shall not be within regulated wetlands or buffer zone areas, or within 50-feet of the storm drain system.

Temporary concrete washout areas must be constructed and maintained to contain all water and concrete waste generated by washout operations. A sign should be placed at the washout site to inform concrete equipment operators of the facility location. Facilities must be cleaned or replaced when they reach 75% capacity.

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

- Temporary concrete washout areas shall be located in upland areas on-site within the site perimeter haybale/silt fence line at all times. Washout areas shall be constructed of staked haybales and filter fabric, and approved by a designated Site Inspector.

3.7 Establish Proper Equipment/Vehicle Fueling and Maintenance Practices

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 berms, sandbags, or other 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.

- Construction equipment/vehicle washing will take place off-site at a nearby vehicle washing facility.

3.8 Dust Control

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) or the RI Department of Transportation Standard Specifications for Road and Bridge Construction (as amended) shall be followed.

Other techniques for controlling dust may be utilized upon approval by the site owner. Other Dust Control methods include surface roughening, wind barriers, walls, and covers.

3.9 Sweeping

Sweeping of streets, roads, highways and parking lots that have accumulated significant amounts of pollutants (construction site sediment, trash, debris) shall be done as necessary, or as directed by the site owner. When construction exits are not keeping construction site sediment from the roadway, sweeping shall be done on a daily basis. Disposal of collected sweeping material shall be done in a manner consistent with State Law and/or regulations.

3.10 Additional BMPs

3.11 Construction Site Good Housekeeping BMPs

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

Location/Station	BMP Description/ Reference	Maintenance Requirement	Phase
Construction Site Entrance/Exit	**Stone Stabilization Pad. Chapter Five, Section D – Construction Entrances, RI Soil Erosion and Sediment Control Handbook.**	The entrance shall be maintained in a condition which will prevent tracking or flowing of sediment onto public right-of-ways. This will require periodic top dressing with additional stone or additional length as conditions demand and repair and/or cleanout of any measures used to trap sediment. All sediment spilled, dropped, washed or tracked onto public right-of-ways must be removed immediately.	Phase I
Adjacent Roads	Public roads adjacent to a construction site shall be clean at the end of each day	Street Sweep if construction site sediment is visible	All Phases
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	All Phases

SECTION 4: PROTECTION OF POST-CONSTRUCTION BMPs

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

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 (as amended), or the RI Department of Transportation Standard Specifications for Road and Bridge Construction (as amended) including any applicable BMP maintenance requirements.

4.1 Post-Construction BMPs

- Refer to the Stormwater Pollution Prevention Plan for Stormwater Discharges Associated with Industrial Activity under the RIPDES Multi-Sector General Permit for the proposed project, dated August 29, 2012 located on site and on file with RI DEM for a complete outline of post-construction measures and BMP's to ensure the protection of the surrounding waterways from contaminated stormwater runoff and pollution.

SECTION 5: MAINTENANCE and INSPECTIONS

RIPDES Construction General Permit – Section IV.E.2.d

5.1 Maintenance

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.

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

Erosion and pollution controls shall be maintained by the site operator to the satisfaction of the site owner. 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 when directed by the site operator; after a rainstorm; and/or whenever maintenance is required for any BMP 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 control structures 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 SWPPP-related issues.

5.2 Inspections

RIPDES Construction General Permit – Section II.B & Section II.D

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 is identified in Section 2.4 of this SWPPP.

General Notes

- A separate inspection report will be prepared for each inspection.
- The Inspection Reference Number shall be a combination of the RIPDES Construction General Permit No - consecutively numbered inspections.
  ex/ Inspection reference number for the **4th** inspection of a project would be:
  RIR100###-**4**
- Each report will be signed and dated by the Inspector and must be kept onsite as required by Part II.D 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 SWPPP, copies of all completed inspection reports, and amendments as part of the SWPPP documentation at the site during construction.

5.3 Corrective Actions

RIPDES Construction General Permit – Section II.C

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 the erosion and pollution controls is required.

In accordance with the RIPDES Construction General Permit and the SWPPP, non-compliance issues shall be addressed no later than seven (7) calendar days from the date of inspection.

In accordance with the SWPPP the site operator shall commence with the requisite cleaning and maintenance measures no later than the next consecutive calendar day after receiving notification from the designated site inspector, and shall aggressively and expeditiously perform such cleaning and maintenance work until the original problem is remedied.

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 6: Amendments

RIPDES Construction General Permit – Section IV.D

This SWPPP 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 and sedimentation are effectively controlled throughout the entire site for the entire duration of the project.**

The SWPPP 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 SWPPP proves to be ineffective in achieving its objectives (i.e. the selected BMPs are not effective in controlling erosion or sedimentation).

All revisions must be recorded in the Construction SWPPP Amendment Log which is contained in Appendix G of this SWPPP, and dated red-line drawings and/or a detailed written description must be appended to the SWPPP. 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 SWPPP Amendments, except minor non-technical revisions, must be approved by the site owner and operator.

Attach a copy of the Amendment log

- Please see Appendix G – Construction SWPPP Amendment Log

SECTION 7: Recordkeeping

RIPDES Construction General Permit – Section II.A & Section II.D

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 SWPPP, which includes:
  - A copy of the General Location Maps
    INCLUDED AS APPENDIX A
  - A copy of all Construction SWPPP Site Maps
    INCLUDED AS APPENDIX B
  - A copy of the RIPDES Construction General Permit
    INCLUDED AS APPENDIX C
  - A copy of the signed and certified Construction NOI form
    INCLUDED AS APPENDIX D
  - A copy of any regulatory permits (RIDEM Freshwater Wetlands Permit, CRMC, RIDEM Water Quality, etc.)
    INCLUDED AS APPENDIX E
  - Completed Inspection Reports w/Completed Corrective Action Logs
    INCLUDED AS APPENDIX F
  - Construction SWPPP Amendment Log
    INCLUDED AS APPENDIX G

SECTION 8: Party Certifications

RIPDES Construction General Permit – Section V.G

All parties working at the project site are required to comply with the Stormwater Pollution Prevention Plan (SWPPP) 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 SWPPP. A copy of the SWPPP is available for your review at the following location: _____, or may be obtained by contacting the site owner or site operator.

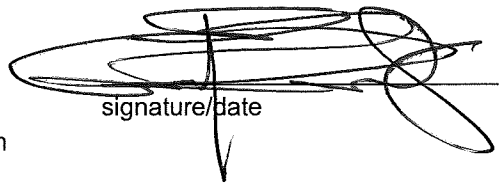
The site owner and site operator and each subcontractor engaged in activities at the construction site that could impact stormwater must be identified and sign the following certification statement.

I acknowledge that I have read and understand the terms and conditions of the SWPPP for the above designated project and agree to follow the BMPs and practices described in the SWPPP.

Site Owner:
ACR Realty LLC
Antonio Ramos, Sole Member
15 Branch Pike
Smithfield, RI 02917
(401) 232-2040

_____
signature/date

Site Operator:
Rhode Island Recycled Metals (RIRM)
Edward Sciaba, Jr.
P.O. Box 73265
Providence, RI 02903
(617) 293-8700, e.sciaba@rirecycledmetals.com


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

All inspector information to be determined at a later date

_____
signature/date

Subcontractor SWPPP Contact:
Coneco Engineers & Scientists
Shane M. Oates, Senior Project Manager
4 First Street
Bridgewater, MA 02324
(508) 697-3191, soates@coneco.com

Shane Oates (DUG)
signature/date

APPENDICES

Appendix A – General Location Maps
- Site Locus Map
- Site Aerial Photo

Appendix B – Construction SWPPP Site Plans

Appendix C – RIPDES Construction General Permit

Appendix D – Copy of RIPDES Notice of Intent

Appendix E – Copy of Regulatory Permits
- OWR Water Quality Certification
- CRMC Application for State Assent
- OAR Application to Install Air Pollution Control Equipment

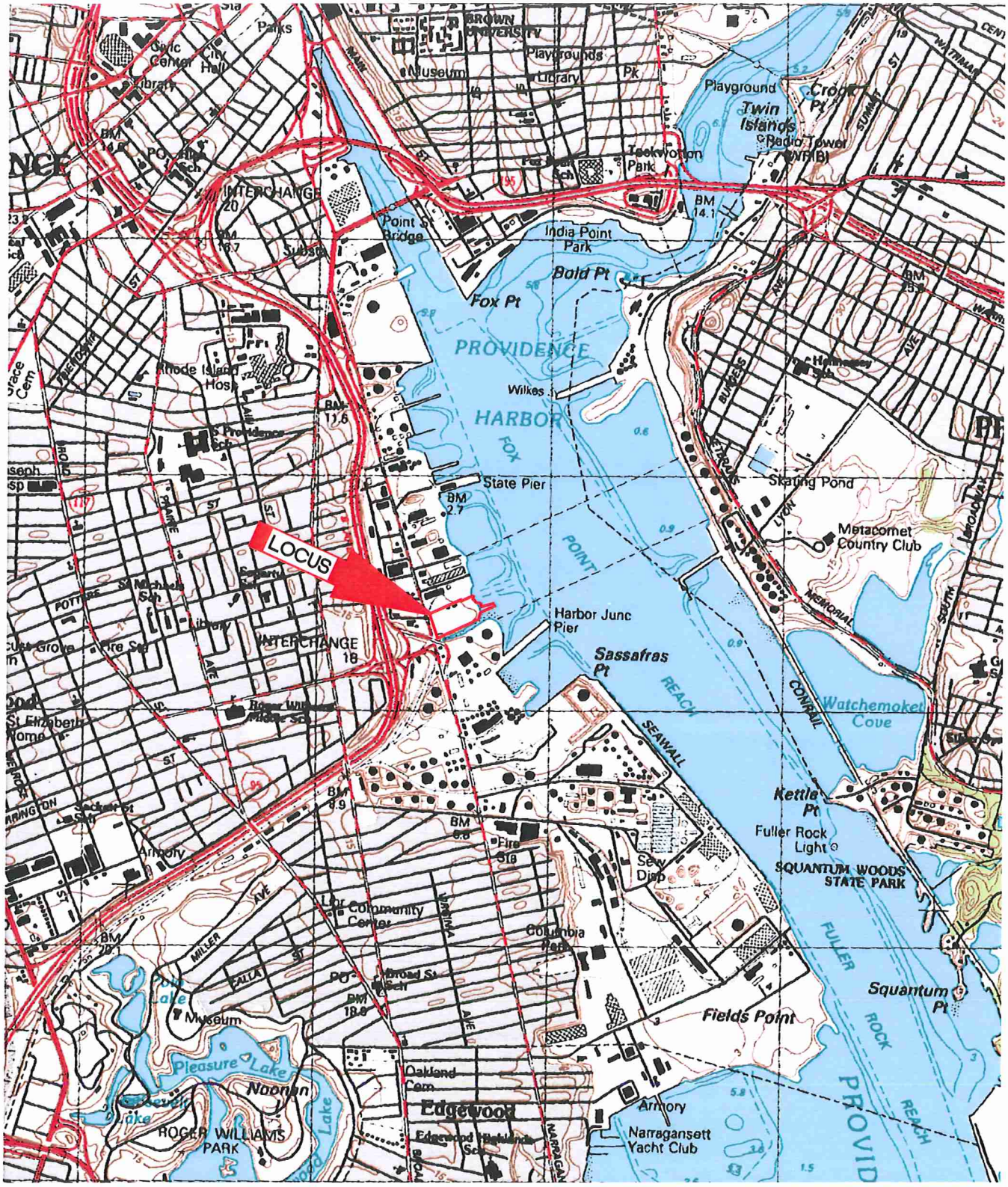
Appendix F – Inspection Reports and Corrective Action Log

Appendix G – SWPPP Amendment Log

Appendix H – Facility Standard Operating Procedures
- Oil & Hazardous Materials Spill Response
- Previously Submitted Soil Management Plan

APPENDIX A
GENERAL LOCATION MAPS

- Site Locus Map
- Site Aerial Photo



GENERAL LOCATION MAPS

CONECO
Engineers, Scientists & Surveyors
4 FIRST STREET, BRIDGEWATER, MASSACHUSETTS 02324
PHONE 508-697-3191 • 800-548-3355 • FAX 508-697-5096
EMAIL: Admin@coneco.com • WEB SITE: http://www.coneco.com

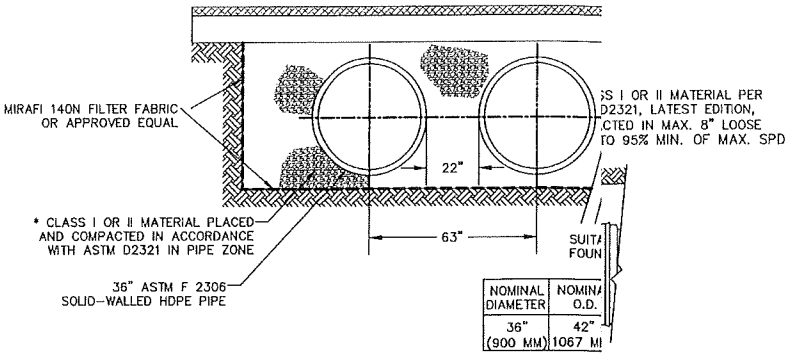
PREPARED FOR:		PLAN SET:	
RHODE ISLAND RECYCLED METALS, INC.		CONSTRUCTION SWPPP	
SCALE	DATE	PROJECT NO.	TITLE:
1"=2000'	08/22/2012	7400.0	RIRM SITE LOCUS

GENERAL LOCATION MAPS

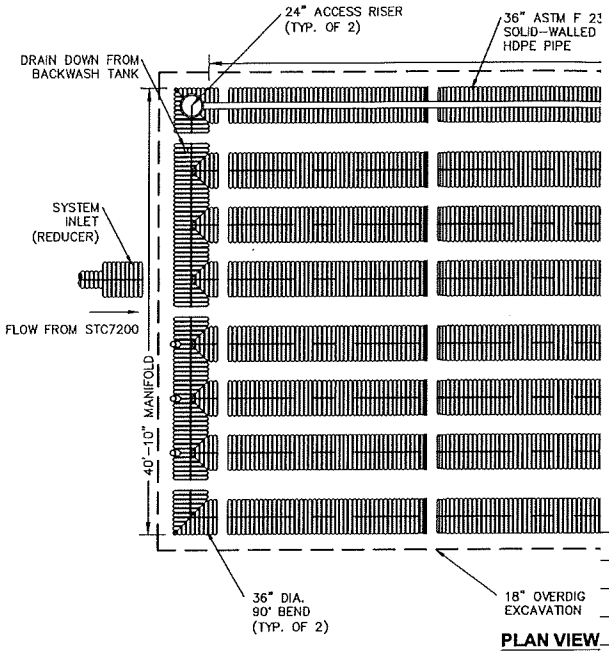
CONECO
Engineers, Scientists & Surveyors
4 FIRST STREET, BRIDGEWATER, MASSACHUSETTS 02324
PHONE 508-697-3191 • 800-548-3355 • FAX 508-697-5096
EMAIL: Admin@coneco.com • WEB SITE: http://www.coneco.com

PREPARED FOR:		PLAN SET:
RHODE ISLAND RECYCLED METALS, INC.		INDUSTRIAL SWPPP
SCALE	DATE	PROJECT NO.	TITLE:
1"=150'	08/22/2012	7400.0	RIRM SITE AERIAL (2011)

APPENDIX B
CONSTRUCTION SWPPP SITE PLANS



ELEVATION VI



PLAN VIEW

R
9"
11"
12"
14"
15"
20"
22"
22"
24'
24"

NOTES:

1. ALL REFERENCES TO CLASS I OR II MATERIAL ARE PER ASTM D2321 " INSTALLATION OF THERMOPLASTIC PIPE FOR SEWERS AND OTHER GRAVITY

2. ALL RETENTION AND DETENTION SYSTEMS SHALL BE INSTALLED IN ACC THE MANUFACTURER'S PUBLISHED INSTALLATION GUIDELINES.

3. MEASURES SHOULD BE TAKEN TO PREVENT THE MIGRATION OF NATIVE REQUIRED. SEE ASTM D2321.

4. FILTER FABRIC: MIRAFI 140N FILTER FABRIC, OR AN APPROVED EQUA FINES FROM THE NATIVE SOIL INTO THE SELECT BACKFILL MATERIAL.

5. FOUNDATION: WHERE THE TRENCH BOTTOM IS UNSTABLE, THE CONTR THE ENGINEER AND REPLACE WITH SUITABLE MATERIAL AS SPECIFIED BY DISCRETION OF THE DESIGN ENGINEER, THE TRENCH BOTTOM MAY BE STAI

6. BEDDING: SUITABLE MATERIAL SHALL BE CLASS I OR II. THE CONTRA MATERIAL SPECIFICATION TO ENGINEER. UNLESS OTHERWISE NOTED BY THE 6" (150mm) FOR 30"-60" (750mm-900mm) DIAMETER PIPE.

7. INITIAL BACKFILL: SUITABLE MATERIAL SHALL BE CLASS I OR II IN TH CROWN OF PIPE. THE CONTRACTOR SHALL PROVIDE DOCUMENTATION FOR SHALL BE INSTALLED AS REQUIRED IN ASTM D2321, LATEST EDITION.

8. MINIMUM COVER: MINIMUM COVER OVER ALL RETENTION/DETENTION S LANDSCAPE AREAS) IS 12" FROM TOP OF PIPE TO GROUND SURFACE. ADI FLOATATION. FOR TRAFFIC APPLICATIONS, MINIMUM COVER IS 12" UP TO 3 SHALL 60" DIAMETER PIPE, MEASURED FROM TOP OF PIPE TO BOTTOM OF FLEXIE OINTS.

9. DETAIL PROVIDED BY ADS INC., 3300 RIVERSIDE DRIVE, COLUMBUS OH M AS BY THE

ADS SUBSURFACE DET

DAVID A. HARRINGTON
No. 9214
REGISTERED PROFESSIONAL ENGINEER (CIVIL)
8/15/12

REVISIONS

NO.	DATE	DESCRIPTION	DR/CK
1	8/23/12	OWR COMMENTS, REVISED DRAINAGE	DMG/SMO
2	12/28/12	DETENTION INLET/OUTLET EDITS	DMG/SMO

PREPARED FOR: ACR REALTY, LLC.
15 BRANCH PIKE
SMITHFIELD, RHODE ISLAND 02917

DRAWING: DETAIL SHEET

PROJECT: RHODE ISLAND RECYCLED METALS
CONSTRUCTION PERIOD SWPPP
434 ALLENS AVENUE
PROVIDENCE, RHODE ISLAND 02903

PLAN TITLE: CONSTRUCTION PERIOD
SWPPP SITE PLANS

CONECO
Engineers, Scientists & Surveyors
4 FIRST STREET, BRIDGEWATER, MASSACHUSETTS 02324
PHONE 508-697-3191 • 800-548-3335 • FAX 508-697-5996
EMAIL Admin@conecco.com • WEB SITE http://www.conecco.com

DATE:	08/15/2012
DRAWN/ CHECK:	DMG/SMO
SCALE:	AS NOTED
PROJECT #:	7400.0
SHEET NO.	8 OF 08

APPENDIX C
RIPDES CONSTRUCTION GENERAL PERMIT

General Permit
Rhode Island Pollutant Discharge Elimination System
Storm Water Discharge Associated
with Construction Activity

September 26, 2008

Valid ONLY in accordance with Part I.C.

Expiration Date: September 25, 2013

Rhode Island Department of Environmental Management
Office of Water Resources
Permitting Section

RIPDES Program

GENERAL PERMIT
RHODE ISLAND POLLUTANT DISCHARGE ELIMINATION SYSTEM
STORM WATER DISCHARGE ASSOCIATED WITH CONSTRUCTION ACTIVITY

PLEASE READ THIS PERMIT CAREFULLY!

Construction activities which disturb one (1) or more acres of land and where storm water runoff is directed, via a point source (see RIPDES Rule 3 for the definition of point source), into a separate storm sewer system or into the waters of the State, are required to seek coverage under a RIPDES storm water permit. 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 Wetlands and Water Quality Certification Programs; the Coastal Resources Management Council (CRMC); and in those towns/cities which have a Qualifying Local Program that has been formally approved by the Department (see RIPDES Rule 15.01(i) for the definition of Qualifying State, or Local Programs). In order to reduce duplication of effort, construction activities that require a CRMC permit, RIDEM Water Quality Certification approval and/or QLP approval will be automatically granted authorization from RIPDES upon departmental receipt of the CRMC permit or the QLP approval and the RIDEM Water Quality Certification (if applicable) and a complete and certified NOI for activities that disturb five (5) or greater acres. For activities that disturb equal to or greater than one (1) acre and less than five (5) acres, approval will be automatically granted authorization from RIPDES upon applicant receipt of the CRMC permit or the QLP approval and the RIDEM Water Quality Certification (if applicable). For all construction activities equal to or greater that one (1) acre and require a RIDEM Freshwater Wetlands permit, authorization from RIPDES will be automatically granted upon applicants receipt of the Freshwater Wetlands permit. For all other construction activities that disturb five (5) or greater acres, authorization will only be granted upon notification from the Director after RIPDES review of the NOI and Storm Water Pollution Prevention Plan. For all other construction activities that disturb equal to or greater than one (1) acre and less than five (5) acres, authorization will be granted automatically upon departmental receipt of a complete and certified NOI if the project does not propose a storm water or allowable storm water discharge to or discharge related activities within a Natural Heritage Area that may affect, a listed or proposed to be listed endangered or threatened species or its critical habitat. If the project does propose a storm water or non-storm water discharge to or discharge related activities within a Natural Heritage Area, authorization will be automatically granted within thirty (30) days after departmental receipt of NOI unless notified to the contrary by the Director, or automatically granted with a prior approval from the DEM Natural Heritage Program finding no adverse impact. 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 Storm Water Discharges. Subject to compliance with the terms and conditions of this permit, you are authorized to discharge pollutants in:

a. All new and existing storm water discharges associated with construction activity, 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 disturbances of less than one (1) acre of disturbance if that construction activity 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 storm water. A discharge

shall be considered composed entirely of storm water if there is adequate access to sample the storm water 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. 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;

b. Storm Water Discharges from support activities (e.g., concrete or asphalt batch plants, equipment staging areas yards, 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 storm water 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 activity at the last construction project it supports; and

   iii. Appropriate controls and measures are identified in a Storm Water Pollution Prevention Plan (SWPPP) covering the discharges from the support activity areas; and

c. Discharges composed of allowable discharges listed in Part I.B.1 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-storm water discharges. Other discharges not comprised of storm water are allowed under this permit but are limited to the following: discharges which result from the washdown of vehicles where no detergents are used; external building washdown where no detergents are used; the use of water to control dust; fire fighting activities; fire hydrant flushings; natural springs; uncontaminated groundwater; lawn watering; potable water sources including waterline flushings; irrigation drainage; pavement washwaters 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; and 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 storm water discharges, they must be specifically

identified in the site's Storm Water Pollution Prevention Plan as described in Part IV. of this permit.

3. Limitations of Coverage. The following discharges associated with construction activity are not authorized by this permit.

   a. Storm water discharges associated with construction activity 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. Storm water discharges associated with construction activity, allowable non-storm water discharges and discharge related activities that adversely effect a listed, or a proposed to be listed, endangered or threatened species or its critical habitat;

   c. Storm water associated with construction activity 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 SWPPP incorporates measures or controls that are consistent with the assumptions and requirement of the TMDL.

      i. If the TMDL or other water quality determination establishes specific requirements that would apply to the discharges from the site, the requirements must be incorporated into the SWPPP and the necessary steps to be consistent with the TMDL must be implemented.

      ii. If the TMDL or other water quality determination establishes general requirements applicable to construction storm water discharges, but does not establish specific requirements for the discharges from the site, the owner/operator must consult with the Department TMDL authority to confirm that adherence to a SWPPP that meets the requirements of the Construction General Permit will be consistent with the TMDL.

      iii. If an EPA approved or established TMDL or other water quality determination has not specified requirements applicable to construction storm water discharges, but has not specifically excluded these discharges, adherence to a SWPPP that meets the requirements of the Construction General Permit, will generally be assumed to be consistent with the approved TMDL.

      iv. If the EPA approved or established TMDL or other water quality determination specifically precludes the discharges, the discharges are not eligible for coverage under this permit; and

   d. 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 storm water from industrial sites may need to be covered by a separate RIPDES permit.

C. Authorization. To be covered under this general permit, owners or operators of storm water discharges associated with construction activities that disturb one (1) or more acres or less than one (1) acre if that construction activity 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. *Deadlines for Requesting Authorization*

a. For storm water discharges associated with construction activity of five (5) acres or more, which was authorized under the 2003 General Permit and is expected to continue beyond the effective date of this permit, an NOI must be submitted within thirty (30) days of the effective date of this permit to maintain permit coverage in accordance with Part I.C.2 of this permit.

b. For storm water 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.C.2 of this permit, an NOI must be submitted at least thirty (30) days prior to the commencement of the land disturbing activities.

2. *Granting of Authorization.*

CRMC / QLP a. For all construction activities that are required to obtain a CRMC permit, or QLP approval, and a RIDEM Water Quality Certification (if applicable):

CRMC or QLP
> 5 acres

i. Construction activities that disturb an area equal to or greater than five (5) acres, authorization to discharge under this permit will be automatically granted upon departmental receipt of the CRMC permit or QLP approval, RIDEM Water Quality Certification (if applicable), and a complete and certified NOI (in accordance with Part III.A.9), unless notified to the contrary by the Director. The issuance of the CRMC permit or the QLP approval and RIDEM Water Quality Certification (if applicable) will serve as authorization of RIPDES approval.

CRMC or QLP
1-5 acres

ii. Construction activities that disturb an area equal to or greater than one (1) acre and less than five (5) acres, authorization to discharge under this permit will be automatically granted upon applicant receipt of the CRMC permit or QLP approval and RIDEM Water Quality Certification (if applicable). The issuance of the CRMC permit or the QLP approval and RIDEM Water Quality Certification (if applicable) will serve as authorization of RIPDES approval.

Note: All construction activities regulated by RIPDES which are also under CRMC review are required to file an application for a Water Quality Certification.

Wetlands
>1 acre

b. For all construction activities that disturb an area equal to or greater than one (1) acre and are required to obtain a RIDEM Freshwater Wetlands permit, authorization to discharge under this permit will be automatically

granted upon applicants receipt of the Freshwater Wetlands permit. The issuance of RIDEM Freshwater Wetlands permit will serve as authorization of RIPDES approval.

All Other
> 5 acres

c. For all other construction activities that disturb an area equal to or greater than five (5) acres, authorization to discharge will only be granted upon notification from the Director after review of the NOI and Storm Water Pollution Prevention Plan.

All Other
1-5 acres

d. For all other construction activities that disturb an area equal to or greater than one (1) acre and less than five (5) acres, authorization to discharge will be granted as follows, unless notified to the contrary by the Director:

(i) If 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, DEM Heritage Program Data, authorization will be granted automatically upon receipt of a complete certified NOI (in accordance with Part III.A.9 & 10).

(ii) If the construction activity is located within or discharges directly to a Natural Heritage Area found on RIDEM's web site under Maps, DEM Heritage Program Data, authorization will be automatically granted upon departmental receipt of a complete certified NOI (in accordance with Part III.A.9) and an approval from the DEM Fish and Wildlife finding no adverse impact, or

(iii) If the construction activity is within or discharges directly to a Natural Heritage Area found on RIDEM's web site under Maps, DEM Heritage Program Data, authorization will be automatically granted within thirty (30) days after departmental receipt of a complete certified NOI (in accordance with Part III.A.9).

D. Termination of Coverage. Owners and/or operators of storm water discharges associated with construction activity must notify the Director in writing upon completion of land disturbing activities. At that point, coverage under this permit is terminated. At a minimum, the following information is required to terminate coverage under this permit:

1. The owner's name, mailing address, and telephone number,
2. The operator's name, mailing address, and telephone number,
3. The name and location of the facility,
4. The RIPDES Storm Water permit number, and
5. Certification that the storm water discharge associated with construction activity no longer takes place at the site.

E. 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 CONDITIONS

A. Development of a Storm Water Pollution Prevention Plan (SWPPP), as described in Part IV of this permit, is required prior to submitting an NOI. The SWPPP developed under the previous (2003) general permit may satisfy this requirement, provided it adequately addresses all requirements of this permit. Compliance with the SWPPP is required upon the date of authorization to discharge under this permit. A copy of the SWPPP must be kept on site at all times during the extent of coverage under this permit.

B. All storm water 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, as outlined in Part IV of this permit, must be inspected by or under the supervision of the permittee 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. Such areas shall be inspected for evidence of, or the potential for, pollutants entering the waters of the State or a separate storm sewer system. All BMPs shall be maintained to prevent uncontrolled releases of measurable amounts of sediment or sediment laden water from traveling beyond the limits of disturbance. If an inspection reveals a discharge of sediments to the waters of the State or a separate storm sewer system, the permittee must notify this office of the nature of the discharge, the measures taken to clean up the discharge, and the measures taken to prevent future releases.

C. Based on the results of the inspections (as required in paragraph B. above), the site description identified in the SWPPP in accordance with Part IV.E.1. of this permit and pollution prevention measures identified in the SWPPP in accordance with Part IV.E.2. of this permit must be revised as appropriate, but in no case later than seven (7) calendar days following the inspection. Such modifications must provide for implementation of any changes to the SWPPP within seven (7) calendar days following the inspection.

D. A report summarizing the scope of the inspection, name(s), and titles of personnel making the inspection, the date(s) of the inspection, major observations relating to the implementation of the SWPPP, and actions taken in accordance with paragraph B. and C. above must be made and retained as part of the SWPPP for at least five (5) years from the date that the site has undergone final stabilization. Such reports must identify any incidents of noncompliance. Where a report does not identify any incidents of noncompliance, the report must contain a certification that the site is in compliance with the SWPPP and this permit. The report must be signed in accordance with Part V.G. of this permit.

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

III. NOTICE OF INTENT REQUIREMENTS

A. <u>Contents of the Notice of Intent:</u>

1. The owner's name, mailing address, telephone number, ownership status, contact person, billing address, and status as a Federal, State, private, public, or other entity.

2. The operator's name, mailing address, telephone number, and contact person.

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 all the names 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, the total area of impervious surface for both the pre-construction and post-construction conditions, and the runoff coefficient for both the pre-construction and post construction site conditions.

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).

8. Location and impact of the construction site relative to Natural Heritage Areas.

9. The type of construction at the site (i.e. the ultimate intended use of the project), the types of any materials handled and/or stored at the site, and the types of any storm water management controls proposed to be used at the site.

10. Applicants with construction activity disturbing greater than five (5) acres who are not required to obtain a permit addressing erosion and sediment controls from CRMC, a QLP, RIDEM Freshwater Wetlands Program or a RIDEM Water Quality Certification, are required to submit a copy of the SWPPP as part of the NOI for review. Applicants previously authorized to discharge under the 2003 general permit are only required to submit the SWPPP to obtain authorization in accordance with Part IV.D of this permit.

11. For all construction activities that disturb an area equal to or greater than five (5) acres and are required to obtain a CRMC permit and/or QLP approval, or disturb an area equal to or greater than one (1) acres and less than five (5) acres and do not require a permit or approval from the CRMC, the RIDEM Freshwater Wetlands Program, or a QLP, submission of a complete NOI is required and must contain a signed certification 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, that the SWPPP has been developed in accordance to the requirements of this permit as well as all applicable guidelines of the Soil Erosion and Sediment Control Handbook and the Storm Water Design and Installation Standards Manual (see Part IV.A. for references). If the SWPPP requires the practice of engineering, the NOI must be signed by a Registered Professional Engineer.

12. For all construction projects that are required to submit an NOI to the Department in accordance with Part I.C.2.c & d of this permit, the NOI must contain a signed certification 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 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. For projects that propose a storm water or allowable non-storm water 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, must submit a map showing the location of the construction site, including the street, nearest utility pole number, and Assessors plat and lot, total area of the site, and the limits of disturbance.

13. 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.

14. Where a new operator is selected after the submittal of an NOI, a new NOI must be submitted by the new operator in accordance with the requirements of this part.

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

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

C. Additional Notification. Construction sites discharging storm water which are operating under an approved local Soil Erosion and Sediment Control Ordinance must, in addition to the requirements in paragraph B. above, submit a copy of the NOI to the Town or City Department which approves such plans.

D. Deficient NOI. If any portion of the NOI does not meet one or more of the minimum requirements of this part, 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.

IV. STORM WATER POLLUTION PREVENTION PLAN REQUIREMENTS

A. A Storm Water Pollution Prevention Plan (SWPPP) shall be developed for each construction site covered by this permit. The SWPPP shall be designed to address two components of storm water pollution: (1) pollution caused by soil erosion and sedimentation during and after construction; and (2) storm water pollution caused by use of the site after construction is completed, including, but not limited to, parking lots, roadways, impervious surfaces, and the maintenance of grassed areas. The SWPPP shall be stamped and 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 certifying that the SWPPP meets all requirements of this permit, and be developed as part of the NOI application process. However, SWPPPs which require the practice of engineering must be stamped and signed by a Registered Professional Engineer. The SWPPP shall identify potential sources of

pollutants which may reasonably be expected to affect the quality of storm water discharges associated with the construction activity. The SWPPP shall identify potential sources of pollutants associated with post construction activity and comply with all local or QLP post construction requirements. In addition, the SWPPP shall describe and ensure the implementation of Best Management Practices (BMPs) which are to be used to reduce or eliminate the pollutants in the storm water discharge(s) at the site and assure compliance with the terms and conditions of this permit. BMP selection shall include an evaluation of the effectiveness of available practices and be made with proper references. Available guidance documents include, but are not limited to, the following:

1. RIDEM, USDA Soil Conservation Service, and Rhode Island State Conservation Committee. **Soil Erosion and Sediment Control Handbook.** 1989.

2. RIDEM. **Storm Water Design and Installation Standards Manual.** (as amended)

3. RIDEM - Office of Environmental Coordination. **Artificial Wetland for Storm Water Treatment: Processes and Design.** 1989.

4. EPA - Office of Water. **Storm Water Management for Construction Activities.** September, 1992.

B. If the SWPPP is not required to be submitted along with the NOI (see Part III.A.8. 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.

C. If the SWPPP 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 part. After such notification from the Director, the permittee shall amend the SWPPP and shall submit to the Director, within seven (7) days of the notification, a written certification that the required changes have been made.

D. The permittee shall amend the SWPPP 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 SWPPP proves to be ineffective in achieving its objectives. In addition, the SWPPP shall be amended to identify any new operator that will implement a component of the SWPPP. All amendments made to the SWPPP must be submitted to the applicable agency which conducted the initial review. Amendments to the SWPPP that will be reviewed by the Department will be reviewed in the same manner as described in paragraph C. above.

E. The SWPPP shall, at a minimum, include the following:

1. <u>Site Description</u>

   a. A site plan (map) which includes the following:

      i. total area of development;
      ii. total area of soil disturbance;
      iii. pre- and post-development drainage patterns;
      iv. approximate slopes anticipated after the completion of major

grading activities;

v. the location of all erosion and sedimentation storm water control structures, including the location of any temporary or permanent retention or detention basins or other water quality control structures;

vi. the location of all impervious structures; and

vii. the location and name of the receiving waters or separate storm sewer system and the ultimate receiving waters.

b. A narrative describing the nature and estimated timetable for the construction activities, including a sequence of major activities of the project, and the ultimate intended use of the project (e.g. shopping mall, residential subdivision, etc.).

c. Estimates of the total area of the site and the total area of the site that is expected to undergo soil disturbance.

d. The calculated pre-construction and post-construction runoff coefficients for the site.

e. A description of the soils at the site and of each soils' erodibility hazard as listed in the Soil Survey of Rhode Island.

f. A description of potential sources of pollution that may reasonably be expected to effect the quality of storm water discharges from the site, such as exposed, unstabilized soil stockpiles.

g. A list of sources of allowable non-storm water discharges, as described in Part I.B.2. of this permit (except flows from fire fighting activities)

h. Existing data on the quality of any known discharges from the site, if available.

2. Controls. The SWPPP shall include a description of controls, including construction details appropriate for the site, and implement such controls. The description of controls shall address the following minimum components:

a. *Erosion and Sedimentation Controls (E&S)*

i. Vegetative Practices. A description of the vegetative BMPs designed to preserve existing vegetation where attainable and revegetate open areas as soon as practicable after grading or construction. Such practices may include: temporary and permanent seeding, mulching, sod stabilization, vegetative buffer strips and tree protection. The operator should initiate appropriate vegetative 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, unless the activity is to resume within twenty one (21) days.

ii. Structural Practices. A description of structural BMPs to divert flows

from exposed soils, filter runoff, store flows, or otherwise limit runoff from coming into contact with exposed, unvegetated areas of the site and to prevent sediments and/or other pollutants from leaving the site. Such practices may include: staked hay bales, silt fence, earthen dikes, drainage swales, check dams, subsurface drains, pipe slope drains, level spreaders, storm drain inlet protection, rip-rap outlet protection, sediment traps and sediment basins.

b. *Post Construction Storm Water Management.* A description of measures that will be installed during the construction project to control pollutants in storm water discharges that will occur at the site after the construction operations have been completed. Such measures may include: infiltration of runoff on-site, flow attenuation by use of open vegetated swales and natural depressions, vegetated buffer strips, and the use of detention/ retention structures. Where controls are needed to prevent or minimize erosion, velocity dissipation devices shall be placed at all outfall locations and along the length of any outfall channel as necessary to provide a non-erosive velocity flow from the structure to the receiving waters. Justification shall be provided by the permittee for each practice selected based on site conditions. In addition, the SWPPP shall include a description of maintenance activities in accordance with paragraph d. below.

c. *Other Controls.*

i. Off-site Vehicle Tracking of Sediments. Each site shall have graveled access entrance and exit drives and parking areas to reduce the tracking of sediment onto public or private roads.

ii. Waste Disposal. All types of waste generated at the site shall be disposed of in a manner consistent with State Law and/or regulations.

iii. Spill Prevention and Response Procedure. Areas where potential spills can occur, and their accompanying drainage points, shall be identified clearly in the SWPPP. The potential for spills to enter the storm water drainage system shall be eliminated wherever feasible. Where appropriate, specific material handling procedures, storage requirements, and procedures for cleaning up spills shall be identified in the SWPPP and made available to the appropriate personnel. The necessary equipment to implement a clean up must also be made available to personnel.

iv. Control of Allowable Non-Storm Water Discharges. If allowable non-storm water discharges are occurring at the site, then such discharges shall be visually observed and recorded in accordance with Part II of this permit.

v. Good Housekeeping. Each site shall provide for the minimization of exposure of construction debris (including, but not limited to, insulation, wiring, paints and paint cans, solvents, wall board, etc.) to precipitation. The SWPPP shall ensure that such construction

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

d. *Maintenance.* A description of procedures to maintain, in good and effective operating condition, vegetation, storm water control measures, and other protective measures, identified in the site plan, must be included as part of the SWPPP. Procedures in the SWPPP shall provide that all erosion controls on the site are inspected at least once every seven (7) calendar days and within twenty four (24) hours after an event which generates 0.25 inches of rain in a twenty four (24) hour period.

e. No condition of this permit shall release the permittee from any responsibility or requirements under other environmental statutes or regulations.

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 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 one hundred eighty (180) 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, Storm Water Pollution Prevention Plans, 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 storm water discharge(s) from a facility shall be minimized in accordance with the applicable storm water pollution prevention 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 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 the storm water pollution prevention plans.

O. Monitoring and Records.

1. Samples and measurements taken for the purpose of monitoring shall be representative of the volume and nature of the discharge over the sampling and reporting period.

2. The permittee shall retain records of all monitoring including all calibration and maintenance records and all original strip chart recordings from continuous monitoring instrumentation, copies of all 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 sample, measurement, report or application. This period may be extended by request of the Director at any time.

3. Records of monitoring information shall include:

   a. The date, exact place, and time of sampling or measurements;
   b. The individual(s) who performed the sampling or measurements;
   c. The date(s) analyses were performed;
   d. The individual(s) who performed the analyses;
   e. The analytical techniques or methods used; and
   f. The results of such analyses.

4. Monitoring must be conducted according to test procedures approved under 40 CFR 136 and applicable Rhode Island regulations, unless other test procedures have been specified in this permit.

5. The CWA provides that any person who falsifies, tampers with, or knowingly renders inaccurate, any monitoring device or method required to be maintained under this permit shall upon conviction, be punished by a fine of up to $10,000 per violation or by imprisonment for not more than six (6) months per violation, or by both. Chapter 46-12 of the Rhode Island General Laws also provides that such

acts are subject to a fine of up to $5,000 per violation, or by imprisonment for not more than thirty (30) days per violation, or by both.

6. Monitoring results must be reported on a Discharge Monitoring Report (DMR).

7. If the permittee monitors any pollutants more frequently than required by this permit, using test procedures approved under 40 CFR 136, applicable State regulations, or as specified in this permit, the results of this monitoring shall be included in the calculation and reporting of the data submitted in the DMR.

P. Bypass of Storm Water 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 storm water 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 storm water 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 storm water 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 storm water discharge associated with a construction activity 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.

APPENDIX D
COPY OF RIPDES NOTICE OF INTENT

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 Regulation, 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 Storm Water Discharge Associated with Construction Activity, which was reissued and became effective on September 26, 2008, applicants must follow the submission requirements under Part I.C of the permit. For additional information, you may obtain the fact sheet titled "Frequently Asked Questions (FAQ's) on RIPDES Permit Requirements for Storm Water Discharges Associated with Construction Activity" by visiting the website at: http://www.dem.ri.gov/programs/benviron/water/permits/ripdes/stwater/t4guide/consfact.htm. Enclosed with this letter is a copy of the Construction General Permit NOI Application Form. Provided all the required information is submitted and it is determined that a general permit is appropriate for a site, authorization will be granted in accordance with Part 1.C. of this permit. The 2008 Construction General Permit expires at midnight September 25, 2013.

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 SWPPP 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)

STORM WATER GENERAL PERMIT FOR CONSTRUCTION ACTIVITY

(Revised 8/08)

DEM USE ONLY

Date NOI Received _____

Date Fee Received _____

RIPDES# RIR_____

MARK ONLY ONE ITEM	☐ Re-Application ☐ Amendment Previous RIPDES Authorization No. RIR_____	☒ New Authorization	

I. OWNER

Name: ACR Realty, LLC			
Mailing Address: 15 Branch Pike			
City: Smithfield	State: RI	Zip: 02917	Phone: (401) 232-2040
Contact Person: Antonio Ramos	Title: Sole Member		
Billing Address (if different than above):			
City:	State:	Zip:	

Ownership (please circle one):
(PRI - Private) PUB - Public BPP - Public/Private STA - State FED - Federal
Other (please specify):

II. OPERATOR (if different from Owner)

Name: Rhode Island Recycled Metals (RIRM)			
Local Mailing Address: 434 Allens Avenue			
City: Providence	State: RI	Zip: 02903	Phone: (617) 293-8700
Contact Person: Edward Sciaba, Jr.	Title: Operator		

III. CONSTRUCTION SITE INFORMATION

Site's Official or Legal Name: Rhode Island Recycled Metals			
Street Address: 434 Allens Avenue			
City: Providence	State: RI	Zip: 02903	Phone: (617)293-8700
Latitude (to nearest 15 sec.) 41 Deg. 48 Min. 08 Sec.	Longitude (to nearest 15 sec.) 71 Deg. 24 Min. 01 Sec.		
Nearest Utility Pole Number: #9053	Assessors Plat: 47	Lot: 601	

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

If YES, you must include the following information:

All Names of Development:_____

Projected **Total Disturbed Area of larger common plan:**_____ **Acres**

If the construction project is part of a larger common plan and the total disturbed area of the larger common plan is 5 acres or more then submission of the Storm Water Pollution Prevention Plan and Full Set of Plans is required.

Projected or Actual Construction Commencement 1/14/13 Projected Construction Completion 4/10/13 MO/DY/YR MO/DY/YR		
Area of Site: Total 5.80 Acres Disturbed 2.67 Acres	Total area of Impervious Surface: Pre-Construction 0.97 Acres Post-Construction 3.60 Acres	Runoff Coefficient or Curve Number: Pre-Construction 81 Post-Construction 95

IV. RECEIVING WATER INFORMATION (For an NOI to be considered complete the name of the receiving surface water must be included)

NOTE: If Storm Water from the site discharges to a Combined Sewer Overflow a RIPDES authorization for the construction activity is not necessary, please confirm with the appropriate sewer authority.

☐ Separate Storm Sewer System (MS4) Name:_____

☒ Receiving Surface Water Name: Providence River Water Body ID#: RI0007020E-01B

☐ Unnamed stream or wetlands connected to named surface water. Name:_____

☐ Unnamed stream or wetlands not connected to named surface water.

Is the Receiving Surface Water an Impaired Water Body? ☒ YES ☐ NO

Watershed Code: 7 Name of Watershed: Narragansett

V. NATURAL HERITAGE AREA (NHA) INFORMATION

Is the site within or directly discharging to a Natural Heritage Area (NHA)?
☐ YES ☒ NO

If the site is within or directly discharging to a NHA, do you have previous approval from DEM Fish and Wildlife?
☐ YES ☐ NO If yes, include a copy of the approval letter

Projects that propose a storm water or allowable non-storm water discharge to a NHA, or has discharge related activities that potentially affect a listed or proposed to be listed endangered or threatened species or its critical habitat, must submit a map showing the location of the construction sites, including the street, nearest utility pole number, and Assessor's plat and lot, total area of the site, and the limits of disturbance.

VI. CONSTRUCTION TYPE (check all that apply)

Type of Construction:
☐ New Development ☒ Redevelopment
☐ Residential ☐ Commercial ☒ Industrial ☐ Restoration (i.e. wetlands)
☐ MS4 Capital Improvements, specify (municipal, State, private institutional):_____
☐ Utility ☐ Other (please list):_____

Types of Materials Handled and/or Stored Outdoors:
☐ Solvents ☐ Paints ☐ Petroleum Products ☒ Metal
☐ Plated Products ☐ Asphal t/Concrete ☐ Hazardous Substances ☐ Wood Treated Products
☐ Other (please list):_____

Types of Storm Water Management Controls:
☒ Oil/Water Separator ☒ Erosion Controls ☒ Sedimentation Controls ☒ Overhead Coverage
☒ Detention/Desiltation Pond ☐ Chemical Treatment ☒ Other (please specify): Roughing Sand Filter

VII. REGULATORY INFORMATION (if applicable, please attach plan or approval documentation)

Is the site subject to Coastal Resources Management Council (CRMC) review and approval?
☒ YES ☐ NO Application Number: _____
Water Quality Certification Application Number: _____

If Yes, for construction activities that disturb an area of five (5) or more acres, authorization to discharge under this permit will be automatically granted upon departmental receipt of the CRMC approval, RIDEM Water Quality Certification (if applicable), and a complete and certified NOI.

Note: all construction activities regulated by the RIPDES Program, which are also under CRMC review, are required to file an application for a Water Quality Certification.

Is the site subject to Qualifying Local Program (QLP) review and approval?
☐ YES ☒ NO Name: _____
Water Quality Certification Application Number (if applicable): _____

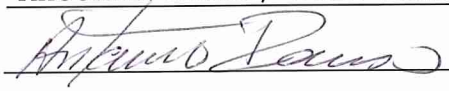
If Yes, for construction activities that disturb an area of five (5) or more acres, authorization to discharge under this permit will be automatically granted upon departmental receipt of the QLP approval, RIDEM Water Quality Certification (if applicable), and a complete and certified NOI.

VIII. 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 Storm Water Pollution Prevention Plan is performed by the Permitting Program, Wetlands Section, Coastal Resources Management Council, or by a city/town which has adopted a DEM approved Soil Erosion and Sediment Control Ordinance, then a Storm Water 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 SWPPP as appropriate in accordance with the requirements of the General Permit.

Print Owner Name ACR Realty, LLC

Print Owner Title Antonio Ramos, Sole Member

Signature  Date _____

Print Operator Name* Rhode Island Recycled Metals

Print Operator Title Edward Sciaba, Jr.

Signature _____ Date _____

*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 system during construction.

IX. PROFESSIONAL CERTIFICATION - NATURAL HERITAGE AREAS

I certify under penalty of law that the Natural Heritage Area Information under Section V of this document 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: David A. Harrington, P.E.

Print Professionals Title*: Senior Civil Engineer

Registration or License Number: 9214

Signature: _____ Date: 12/28/12

*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.

X. PROFESSIONAL CERTIFICATION - SWPPP DEVELOPMENT

Note: This section needs to be filled out for construction activities that are not required to submit a SWPPP to the RIPDES Program (refer to Part III.A.9 of the General Permit). The purpose of this certification is to document that a site specific SWPPP 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 SWPPP and to amend the SWPPP as site conditions may require, so as to effectively control storm water discharges leaving the site during the construction period.

I certify under penalty of law that a site specific SWPPP 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 SWPPP, the SWPPP 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 of the Soil Erosion and Sediment Control Handbook and the Storm Water Design and Installation Standards Manual. 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: David A. Harrington, P.E.

Print Professionals Title*: Senior Civil Engineer

Registration or License Number: 9214

Signature: _____ Date: 12/28/12

*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. If the SWPPP 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 a Notice of Termination (NOT) form. 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 *****

APPLICANT'S NAME: Rhode Island Recycled Metals

OWNER'S NAME: ACR Realty, LLC

SITE LOCATION: 434 Allens Avenue, Providence, RI 02903

APPLICATION TYPE (Permit, Order of Approval): **RIPDES 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) - STORM WATER GENERAL PERMIT FOR CONSTRUCTION ACTIVITY

Who Must File A Notice of Intent (NOI) Form

Discharges of storm water 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 storm water discharge must submit a Notice of Intent (NOI) to obtain coverage under the RIPDES Storm Water General Permit. If you have questions about whether you need a permit under the RIPDES Storm Water program contact the Rhode Island Department of Environmental Management (RIDEM), Office of Water Resources, Permitting Section at (401) 222-4700.

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 of person to be contacted to answer questions on the construction project. Circle the appropriate choice to indicate the legal status of the owner of the site.

Section II - Operator Information

If the operator is the same as the owner do not complete this section. Give 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 and telephone number 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. 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 actual or projected construction commencement 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), the area of disturbed land (acres), and the total area of the impervious surface for both pre-construction and post-construction (acres). You must also supply the runoff coefficient or curve number for both pre-construction and post-construction.

Section IV - Receiving Water Information

If the storm water discharges 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 storm water directly to a surface water body check the box and enter the name of the receiving water. If the receiving water is an unnamed stream or wetlands that is either connected to a named surface water check the box and enter the name of surface water; or if the receiving water is an unnamed stream or wetlands not connected to named surface water check the box. Determine the water body ID number and if the receiving water body is impaired:

- Step 1: Go to:
http://www.dem.ri.gov/maps/index.htm

- Step 2: Select Environmental Resource Map.

- Step 3: Open the "DEM Water Quality and Impairments" Folder listed under the LAYERS heading.

- Step 4: Select "Integrated Assessment FW Stream", "Integrated Assessment FW Pond" or "Integrated Assessment FW Estuarine" as applicable for your discharge, by checking the square box and clicking on the "Refresh Map" button.

- Step 5: Activate the appropriate layer by selecting the circle next to the applicable "Integrated assessment" water body type (stream, pond, estuarine).

- Step 6: Click on left hand legend the "Togle between Legend and Layers List" icon (top left icon), legend with water quality categories pops-up on the right. Water classes 5 and 4A, indicate impaired water bodies scheduled for a TMDL and impaired water bodies with EPA approved TMDLs respectively.

- Step 7: Select the Zoom from icons listed on the left hand legend and zoom in to the area in the vicinity of your construction project and receiving water body.

- Step 8: Open the "Transportation" folder listed under the LAYERS heading and select "Primary Roads" or "All Roads" then click on refresh button.

- Step 8: Select the information feature (**i** icon in red circle) on the left hand legend, and click on the receiving water body on the vicinity of the ultimate discharging point. Information regarding the receiving water body will be shown on the bottom of the screen, such as the name of the water body, water body ID number, and Integrated Report Category (IRCat), water classes 5 and 4A, indicate impaired water bodies scheduled for a TMDL and impaired water bodies with EPA approved TMDLs respectively.

Enter the name and code of the watershed that receives the storm water runoff. Available at: http://www.dem.ri.gov/programs/benviron/water/permits/ripdes/stwater/graphics/watersh.jpg (RI Watersheds)).

Section V – Natural Heritage Area (NHA) Information
Determine if your site is within or directly discharging to a NHA:

- Step 1: Go to http://www.dem.ri.gov/maps/index.htm

- Step 2: Open the "Regulatory Overlays" Group / Folder listed under the LAYERS heading.

- Step 3: Select Natural Heritage Area – Rare Species as a visible layer from menu and press the "Refresh Map" button (*Note: Menu may not list all layers if scale factor is too large. If this is the case, then use the "zoom in" feature until all layers are listed in menu).

- Step 4: Select any other layer that may be useful in determining the location of the construction activity relative to the Natural Heritage Area (such as roads).

Upon careful review of the above maps, check the appropriate box to indicate whether or not your site is within or directly discharging to an NHA. If Yes and you have pre-approval to discharge please include documentation of such. If No, please provide a map showing location of site, street, nearest utility pole number, assessor's plat and lot, and include the total area of the site and limits of disturbance.

Section VI - Construction Type
Check the appropriate box(es) to indicate the Type of Construction, Types of Materials Handled and/or Stored Outdoors, and the Types of Storm Water Management Controls at the site. List additional information for each section in the appropriate spaces provided. If necessary, attach additional sheets.

Section VII - Regulatory Information
Indicate Coastal Resources Management Council (CRMC) or Qualified Local Program (QLP) regulatory approvals obtained for the site by checking Yes or No and list the application number as applicable. All construction activities regulated by RIPDES which are also under CRMC review are required to file an application for a Water Quality Certification. For additional guidance on submission requirements and authorization, visit the RIPDES Storm Water Home Page at: http://www.dem.ri.gov/programs/benviron/water/permits/ripdes/stwater and click on the Guidance tab.

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 (RIPDES Rule 12);

Section VIII - 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 system during construction.

Section IX – Professional Certification - Natural Heritage Program
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 Storm Water Quality (CPSWQ), or a Registered Landscape Architect.

Section X – Professional Certification - SWPPP 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 Storm Water Quality (CPSWQ), or a Registered Landscape Architect. This section needs to be filled out for construction activities that are not required to submit a SWPPP to the RIPDES Program (refer to Part III.A.9 of the General Permit). The purpose of this certification is to document that a site specific SWPPP 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 SWPPP and to amend the SWPPP as site conditions may require, so as to effectively control storm water 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.

RHODE ISLAND DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
Office of Water Resources

NOTICE OF TERMINATION (NOT)

STORM WATER GENERAL PERMIT
FOR CONSTRUCTION ACTIVITY
(Revised – 7/03)

RIPDES Permit Authorization to be terminated: No. RIR_____

I. OWNER

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

II. OPERATOR (if different from Owner)

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

III. CONSTRUCTION SITE INFORMATION

Street Address:			
City:	State:	Zip:	Phone:
Nearest Utility Pole Number:	Assessors Plat:	Lot:	

IV. OWNER CERTIFICATION

I certify under penalty of law that all disturbed soils at the construction site have been finally stabilized and temporary erosion and sediment control measures have been removed or will be removed at an appropriate time, or all storm water discharges associated with construction activity from the construction site that are authorized by the General Permit have otherwise 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 _____

Signature _____ Date _____

APPENDIX E
COPY OF REGULATORY PERMITS

- OWR Water Quality Certification Application
- CRMC Application for State Assent
- OAR Application to Install Air Pollution Control Equipment

RHODE ISLAND DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
Office Of Water Resources
235 Promenade Street, Providence, RI 02908-5767
Telephone: 401-222-6820, Telecommunication Device for the Deaf: 401-831-5508, FAX: 401-222-6177

WATER QUALITY CERTIFICATION PROGRAM APPLICATION

This form is to be completed for all applications to the Department of Environmental Management (DEM), Office of Water Resources, for Water Quality Certification as specified in Rule 13 of the DEM "Water Quality Regulations." Reference the "Rules and Regulations Governing the Establishment of Various Fees" for fees listed below. Attach a non-refundable check payable to "General Treasurer, State of RI."

FOR DEM USE ONLY Date Received
Amount Paid: _____ Check #: _____ File #: _____

PURPOSE OF APPLICATION (Check only one) AND FEES:

☒ Application for Water Quality Certification:

Submit required documentation for Estimated Construction Costs (See **Note 1**)

Fee: ☐ $200. for estimated construction costs < $250,000.

☒ $400. for estimated construction costs ≥ $250,000.

☐ Request Renewal of Water Quality Certification: File # _____

Fee: No fee

☐ Request Modification of Water Quality Certification: File # _____

Fee: One-half of original fee noted above

(A.) PROJECT NAME AND LOCATION:

Rhode Island Recycled Metals — (Project Name)
Plot 47, Lot 601 — (Tax Assessor's Plat(s) and Lot No.(s))

434 Allens Avenue — (Project Location) (Street Address)
Providence — (City/Town)
02903 — (ZIP)

(B.) APPLICANT: (**Note:** Applicant must be the owner of the property on which the activity is proposed.)

Antonio Ramos — (Name)
15 Branch Pike — (Mailing Address)
Smithfield RI — (City/Town) (State)
02917 — (ZIP)

ACR Realty, LLC. — (Company/Organization)
(401) 232-2040 — (Area Code & Telephone Number)

(C.) CONTACT TO ANSWER QUESTIONS REGARDING APPLICATION (If different than Section B):

Edward Sciaba, Jr. — (Name)
434 Allens Avenue — (Mailing Address)
Providence RI — (City/Town) (State)
02903 — (ZIP)

Rhode Island Recycled Metals — (Company/Organization)
Operator — (Title)
(617) 293-8700 — (Area Code & Telephone Number)

(D.) PROJECT TYPE/ACTIVITY (Check All That Apply):

- ☐ Filling of Waters of the State
- ☐ Any project ≥ five (5) acres disturbance
- ☒ Commercial, Industrial, State or Municipal Development
- ☐ Flow Alterations
- ☐ Harbor Management Plan
- ☐ Marinas – New construction or expansion
- ☐ Residential Development: six (6) or more dwellings
- ☒ Site Disturbances
- ☐ Other _____

(E.) GENERAL INFORMATION: Check program and list number(s) of other applications associated with this project.

- ☒ Coastal Resources Management Council _____
- ☐ US Army Corps of Engineers _____
- ☒ Other RIPDES Construction NOI, RIPDES Industrial MSGP NOI, OAR Application to Install Air Pollution Control Equipment

(F.) CERTIFICATION OF APPLICANT:

I hereby certify that I have requested and authorized the investigation, compilation, and submission of all the information, in whatever form, contained in this Application; that I have personally examined and am familiar with the information submitted herein; and that such information is true, accurate and complete to the best of my knowledge.

Signature of Applicant: _____ Date: _____

Print Name: _____

Please return completed form to:

Rhode Island Department of Environmental Management
Office of Water Resources, Water Quality Certification Program
235 Promenade Street, Suite 260
Providence, RI 02908-5767

Office Use Only:

Suitable for Public Notice Date: _____

Certification Determination:
Date: _____

- ☐ Approved
- ☐ Denied
- ☐ Withdrawn
- ☐ Closed

_____ Project Reviewer:

Note 1: Documentation of Estimated Construction Costs (ECC) will be required unless the ECC is ≥ $250,000. ECCs include all costs of construction activities such as materials, labor, and equipment. ECC shall not include the cost of land acquisition and consultant fees for planning, design, and construction supervision. The ECC for proposed projects must be documented and prepared by an appraiser, general contractor, engineer, land surveyor, architect, landscape architect, or another appropriate qualified professional. Such documentation must be submitted by the applicant with the application. All ECCs are subject to the review and acceptance by the Department.

STATE OF RHODE ISLAND AND PROVIDENCE PLANTATIONS
COASTAL RESOURCES MANAGEMENT COUNCIL
4808 TOWER HILL ROAD; Suite 3, WAKEFIELD, RI 02879
(401) 783-3370

Application for State Assent to perform work regulated by the provisions of Chapter 279 of the Public Laws of 1971 Amended.

	File No.
Location No. 434 Street Allens Avenue City/Town Providence	
Owner's Name ACR Realty, LLC. Plat No. 47	Lot No. 601
Mailing Address 15 Branch Pike City/Town Smithfield State RI Zip Code 02917	Res. Tel. # Bus. Tel. #
Contractor RI Lic. # Address	Tel. No.
Designer: Coneco Engineers & Scientists, Inc. Address: 4 First Street Bridgewater, MA 02324	Tel. No. (508) 697-3191
Name of Waterway Providence River, Narragansett Bay Est. Project Cost $ 300,000.00	Fee/Costs $ 1,750.00

Have you or any previous owner filed an application for and/or received an assent for any activity on this property? (If so please provide the file and/or assent numbers). 1996-02-072; 2005-05-005; 2009-05-015; 2009-08-050; 2010-11-048

IS THIS APPLICATION BEING SUBMITTED IN RESPONSE TO A COASTAL VIOLATION?
YES _____ NO
IF YES, YOU MUST INDICATE NOV OR C&D NUMBER_____

Name and Addresses of adjacent property owners whose property adjoins the project site. (Accurate addresses will insure proper notification. Improper addresses will result in an increase in review time.)
Cumberland Farms, Inc., 100 Crossing Boulevard, Framingham MA 01702; Motiva Enterprises, LLC., 700 Milam Street, Houston TX 77002

Describe accurately the work proposed. (Use additional sheets of paper if necessary and attach this form.)

Stockpiling/processing area of existng scrap yard to be paved with reinforced concrete, which will drain to a proposed stormwater treatment system for the purposes of mitigating contaminated runoff from the site.

Owner's Signature

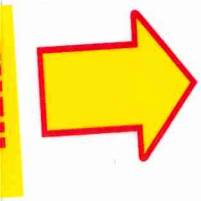
NOTE: The applicant acknowledges by evidence of their signature that they have reviewed the Rhode Island Coastal Resources Management Program, and have, where possible, adhered to the policies and standards of the program. Where variances or special exceptions are requested by the applicant, the applicant will be prepared to meet and present testimony on the criteria and burdens of proof for each of these relief provisions. The applicant also acknowledges by evidence of their signature that to the best of their knowledge the information contained in the application is true and valid. If the information provided to the CRMC for this review is inaccurate or did not reveal all necessary information or data, then the permit granted under this application may be found to be null and void. Applicant requires that as a condition to the granting of this assent, members of the CRMC or its staff shall have access to the applicants property to make on-site inspections to insure compliance with the assent. This application is made under oath and subject to the penalties of perjury. 08/04

PLEASE REVIEW REVERSE SIDE OF APPLICATION FORM

STATEMENT OF DISCLOSURE AND APPLICANT AGREEMENT AS TO FEES

The fees which must be submitted to the Coastal Resources Management Council are based upon representations made to the Coastal Resources Management Council by the applicant. If after submission of this fee the Coastal Resources Management Council determines that an error has been made either in the applicant's submission or in determining the fee to be paid, the applicant understands that additional fees may be assessed by the Coastal Resources Management Council. These fees must be paid prior to the issuance of any assent by the Coastal Resources Management Council.

The applicant understands the above conditions and agrees to comply with them.



_____ _____

Signature Date

_____

Print Name and Mailing Address

NOTICE TO APPLICANTS

The Coastal Resources Management Council regulations require that the following must accompany every application otherwise these applicants will be deemed incomplete and returned.

1. **Four copies** of completed application form including plans, are required. If the project requires a type "B" or involves work in the waterway, plans must be 8 1/2" x 11". If the project is type "P" or Prohibited, a Special Exception form will be required, staff will provide you with the necessary forms.

   For Formal Applications (Category B): **Site Plans must also be submitted in PDF format and if possible, application materials as well in PDF format.**

2. **Application fee – Please have a currently dated check. Checks older than 2 weeks will not be accepted. (see attached CRMC Fee Schedule for Application fee amount).**

3. **Proof of Ownership**. The CRMC requires a letter from the local tax assessor stating ownership of the property.

4. A copy of the **local building permit** or a **letter from the local building official** stating that a building permit will be issued upon receipt of a CRMC permit, with the exception of recreational boating facilities.

5. Supply **photos of coastal feature construction site**.

In addition, where these additional items are applicable, they are also required:

a. Affirmation that the proposed structure will be serviced by municipal sewers. (For large projects, local community approval and construction details of the tie-in are required).
b. An approved Individual Sewage Disposal System (ISDS) permit from DEM/ISDS, 291 Promenade Street, Providence, RI, 02908; phone (401) 222-2306.
c. An approved "Change of Use" permit from DEM/ISDS is required in un-sewered areas when an increase in the number of bedrooms, an increase in "flow units", or a change from season to year-round use is proposed.

Your application receives a thorough review by our staff biologists and engineers during which they may require additional information to complete their review. If this becomes necessary you will receive a separate information request form.

You are urged during this process to be as complete as you can in fulfilling all informational requirements. In addition, you are also urged to adhere as closely as you can to all the Coastal Resources Program requirements. Failure to do so could cause delays in processing your application.

We thank you for your cooperation in this matter and look forward to working with you in protecting our coastal environment.

CRMC'S FEE SCHEDULE
(*current dated check or money order only*)

Project Description	Description/Comments	Fee
Residential Boating Facility	New Facility	$1,500.00
New Structural Shoreline Protection Facility	First 100 linear feet Each additional linear foot	$1,500.00 $15.00/ft
Residential Development Project (condominiums, subdivisions, paper subdivisions, etc.)	First 6 units/lots Each additional unit/lot Infrastructure (roads, drainage, etc.)	$3,500.00 $400.00 (.005 X EPC)
Review of units/lots within a Council approved Subdivision	Submitted in accordance with all Council conditions/stipulations	1/2 of the All Others fee
Buffer Zone Alterations and Management Plans	For areas less than or equal to 1 acre For areas between 1 and 5 acres For areas greater than 5 acres	$100.00 $250.00 $500.00
Onsite Sewage Disposal Systems	New Systems	All Others fee
All others (include Section 320 reviews)	Based on Estimated Project Cost: EPC is less than or equal to $1,000 EPC Between $1,000.01 - $2,500 $2,500.01 - $5,000 $5,000.01 - $10,000 $10,000.01 - $25,000 $25,000.01 - $50,000 $50,000.01 - $100,000 $100,000.01 - $150,000 $150,000.01 - $200,000 $200,000.01 - $250,000 $250,000.01 - $300,000 $300,000.01 - $350,000 $350,000.01 - $400,000 $400,000.01 - $450,000 $450,000.01 - $500,000 $500,000.01 - $20,000,000 EPC greater than $20,000,000	 $50.00 $100.00 $150.00 $200.00 $250.00 $500.00 $750.00 $1,000.00 $1,250.00 $1,500.00 $1,750.00 $2,000.00 $2,250.00 $2,500.00 $2,750.00 ($2,750.00 + .005 X EPC beyond $500,000.00) ($100,250.00 + .0025 X EPC beyond $20,000,000)

EPC = Estimated Project Cost. The EPC shall include all costs associated with site preparation (e.g., earthwork, landscaping, etc.) sewage treatment (e.g., cost of ISDS, sewer tie-ins, etc.) and construct costs (e.g., materials, labor, and installation of all items necessary to obtain a certification of occupancy).

Preliminary Determinations	Fee
Individual residential homeowner/potential homeowner	$150.00
All other projects (e.g., subdivisions, commercial, industrial, etc.)	$1,000.00
Jurisdictional determinations	$100.00

Other Fees	Fee
Single Family Residence Assent Renewal/Extension	$75.00
All Other Assent Renewal/Extension	$250.00
Modification-Single Family Residence w/no public hearing	$100.00
Modification of under 50% of a recreational boating facility	$250.00
All other Modification Requests	All Other fee or $250.00 whichever is greater
Lightering Permits	$250.00
Beach Vehicle Permits: Rhode Island registration Out-of-State registration	$100.00 $200.00
Declaratory Rulings	$1,000.00
Petitions for regulation changes	$1,000.00
Contested cases with sub-committee hearings	Applicant pays all costs of hearing process
Temporary Dock Application	$100.00
Dock Registration	$20.00

Administrative Fees for Activities which have occurred without a valid CRMC Approval

1. Administrative Reviews

   All such activities will be assessed an application fee based on above plus:

   a) Illegally constructed structures and unauthorized activities located in tidal waters and/or on adjacent coastal or shoreline features (See RICRMP Section 200 and Section 210) shall be assessed **$500.00** administrative fee;

   b) Illegal activities excluding those classified as maintenance activities under the RICRMP shall be assessed a **$250.00** administrative fee; and,

   c) Unauthorized maintenance activities shall be assessed a **$100.00** administrative fee.

2. Applications before the Council
    a) In accordance with Council regulations, all activities or alterations which have already occurred, or have been constructed or partially constructed without a Council Assent shall be subject to the fee schedule contained in Section 4.3.2. In addition, the Council shall assess an appropriate administrative fee based on a recommendation by the Executive Director. The recommended administrative fee shall take into account the impact on coastal resources, additional demand on Council resources, and hardship on an applicant (see RICRMP Section 160).

Hardships

Where an applicant can demonstrate that the fee schedule described herein presents an undue hardship, the Council may adjust the application fee, administrative fee, and/or contested case fees.

* *NOTE: All fees are Summative. In addition, all fees are filing fees and non-refundable.*

***NOTE: Applicants should consult Section 4.3 of the CRMC's Management Procedures for a more detailed description of the CRMC's fee schedule.*

Print Date: 8/15/2012

Tax Year: 2012

City of Providence

Duplicate Bill

ACR Realty LLC
15 Branch Pike
Esmond, RI 02917

ACCOUNT NO: 9206145001
LENDER:

2012 TAX DUE:	$39,783.72
2012 INTEREST DUE:	
PRIOR YEARS TAXES DUE:	
PRIOR YEARS INTEREST DUE:	$0.00
TOTAL AMOUNT DUE:	**$39,783.72**

DESCRIPTION

REAL ESTATE

YR	PLAT/LOT	PROPERTY LOC.	TOTAL A.	ORIG. DUE	ADJ/AB.	CHARGES	INT	REVERS.	REFUND	PAYMENTS	TOT. DUE
2012	047-0601-0000	434 Allens Ave	$1,443,400.00	$53,044.96		$0.00	$0.00			$13,261.24	39,783.72
										Interest as of date:	$0.00
		REAL ESTATE TOTAL:		$53,044.96		$0.00	$0.00			$13,261.24	39,783.72

	PRIOR YEARS	CURRENT YEAR	QTR1	QTR2	QTR3	QTR4
REAL ESTATE TAX:		$39,783.72		$13,261.24	$13,261.24	$13,261.24
TANGIBLE TAX:						
EXCISE TAX:						
TOTAL AMOUNT DUE :		$39,783.72		$13,261.24	$13,261.24	$13,261.24

9.5.1

\\Webserver\Govern\Reports\pro_billbc.rpt

Department of Inspection and Standards

Angel Taveras, Mayor
Jeffrey L. Lykins, RA, Director
Tony Carvalho,C.B.O.

R.I. Recycled Metals, LLC.
434 Allens Ave.
Providence, R.I. 02905

Tony Carvalho
Building Official
City of Providence
444 Westminster St. 1st floor
Providence, R.I. 02903

08/09/2012

Re: CRMC Permit required prior to Building permit issuance
To whom it may concern:
Please provide a copy of your CRMC permit with your plan submittal for building permit review. As part of the review process for a building permit, in this case, a building permit can only be issued after a CRMC permit is included in the construction documents upon submittal, with the exception of recreational boating facilities.

Tony Carvalho, C.B.O.

AERIAL PHOTO OF PROPOSED CONSTRUCTION SITE

CONECO
Engineers, Scientists & Surveyors
4 FIRST STREET, BRIDGEWATER, MASSACHUSETTS 02324
PHONE 508-697-3191 • 800-548-3355 • FAX 508-697-5996
EMAIL: Admin@coneco.com • WEB SITE: http://www.coneco.com

PREPARED FOR:			PLAN SET:
RHODE ISLAND RECYCLED METALS, INC.			CRMC APPLICATION FOR STATE ASSENT
SCALE	DATE	PROJECT NO.	TITLE:
1"=150'	12/28/2012	7400.0	RHODE ISLAND RECYCLED METALS

RHODE ISLAND DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR RESOURCES

APPLICATION FOR APPROVAL OF PLANS TO CONSTRUCT, INSTALL, OR MODIFY AIR POLLUTION CONTROL EQUIPMENT

Return to: RHODE ISLAND DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR RESOURCES
235 PROMENADE STREET
PROVIDENCE, RI 02908

Section A

1. FULL BUSINESS NAME Rhode Island Recycled Metals PHONE 617-293-8700
2. ADDRESS OF EQUIPMENT LOCATION 434 Allens Avenue, Providence RI 02903
   SIC CODE 5093 # EMPLOYEES 30
3. LOCATION ON PREMISES (BLDG., DEPT., AREA, ETC.) Shredder building, next to maintenance shed
4. NATURE OF BUSINESS Buys, processes and recycles ferrous/non-ferrous metals

Section B

1. APPROVAL REQUESTED FOR: ☑ CONSTRUCTION ☐ MODIFICATION
2. TYPE OF EQUIPMENT: ☐ BAGHOUSE ☑ SCRUBBER ☐ AFTERBURNER
   ☐ SCR ☐ CARBON ADSORBER ☑ OTHER (SPECIFY) Cyclone separator
3. MAKE AND MODEL NO.: Dust Collection System CV-SB150-1L by Centroventilazione
4. ESTIMATED STARTING DATE: 11/09/2012 ESTIMATED COMPLETION DATE: 11/31/2012

Section C

1. GENERAL DESCRIPTION OF PROCESS FROM WHICH POLLUTANTS ARISE Crushed and decommissioned vehicles, metal from building demolition, and home appliances are loaded into a mill/shredder unit, operating inside a 3-walled structure, for processing and separation.
2. PROCESS EQUIPMENT USED IN OPERATION 950-Bhp 16-ram 'Drake' model metal scrap mill by Ing. Bonfiglioli S.p.A., Bologna, Italy
3. OPERATING PROCEDURE: ☑ CONTINUOUS 16 HRS/DAY 6 DAYS/WEEK 50 WEEKS/YEAR
   ☐ BATCH ____ HRS/BATCH ____ BATCHES/WEEK ____ WEEKS/YEAR
4. LIST THE TYPE AND QUANTITY OF RAW MATERIALS USED PER HOUR OR PER BATCH ON AN ATTACHED SHEET.

Section D

EMISSIONS INFORMATION:

POLLUTANT	EMISSIONS BEFORE CONTROL EQUIPMENT	AFTER
Dust	1,600 mg/m3	20 mg/m3

INDICATE METHOD USED TO DETERMINE EMISSIONS a Dust Particle Analyzer at sample ports

AP-CE

Section E

EMISSION STREAM CHARACTERISTICS

1. MAXIMUM FLOW RATE (SCFM) 35,903 scfm
2. TEMPERATURE (^{o}F) Ambient
3. MOISTURE CONTENT Ambient %
4. HALOGENATED ORGANICS: ☐ YES ☑ NO
5. HEAT CONTENT (IF APPLICABLE) N/A BTU/SCF

Section F

SCRUBBER

1. WET:SCRUBBING LIQUID
   (A) COMPOSITION Water
   (B) FLOW RATE (GAL/MIN) 634
   (C) INJECTION RATE (PSI) 73.48
   (D) MAKE-UP RATE IF RE-CIRCULATED (GAL/MIN) 634
   PACKING-IF APPLICABLE
   (A) TYPE N/A
   (B) DEPTH OF BED _____ (FEET)
   (C) PACKING SURFACE _____ (FT^2)
2. DRY:SCRUBBING REAGENT: N/A USAGE _____ LB/HR.
   INJECTION RATIO: _____ ( )
   MIXING METHOD _____
3. PRESSURE DROP ACROSS CONTROL UNIT: 3.51 - 5.91 INCHES WATER

BAGHOUSE/FABRIC FILTER

1. BAG/FILTER MATERIAL N/A 2. NUMBER OF BAGS _____
3. AIR/CLOTH RATIO _____ FEET/MINUTE
4. METHOD OF CLEANING: (A) ☐ SHAKER ☐ PULSE ☐ REVERSE AIR ☐ OTHER-SPECIFY
   (B) FREQUENCY OF CLEANING _____
   (C) IS CLEANING AUTOMATIC OR MANUAL _____

CARBON ADSORBER

1. VOLUME OF EACH CARBON BED N/A (FT^3)
2. NUMBER OF BEDS _____
3. DIAMETER OF EACH BED _____ (FT)
4. DEPTH OF EACH BED _____ (FT)
5. ADSORBTION CAPACITY OF CARBON (LB/100 LB CARBON) _____
6. ADSORBTION CYCLE TIME _____ (HR)
7. REGENERATION CYCLE TIME _____ (HR)
8. STEAM RATIO (LB STEAM/LB CARBON) _____
9. STEAM SOURCE _____
10. REMOVAL EFFICIENCY (%) _____

INCINERATION

1. THERMAL AFTERBURNER
   A. VOLUME OF COMBUSTION CHAMBER N/A (FT^3)
   B. MINIMUM OPERATING TEMPERATURE _____ (^{o}F)
   C. RESIDENCE TIME _____ (SECONDS)
   D. EXCESS AIR _____ %
2. CATALYTIC INCINERATION
   A. TYPE OF CATALYST N/A
   B. VOLUME OF CATALYST _____ (FT^3)
   C. SPACE VELOCITY _____ (HR^{-1})
   D. CATALYST OPERATING TEMPERATURE _____ (^{o}F)

INCINERATION (CONT.)

3. BURNER MAKE AND MODEL NO. _____
   CAPACITY (BTU/HR) _____
4. HEAT RECOVERY: ☐ YES ☐ NO
   TYPE: _____ EFFICIENCY: _____ %
4. DESTRUCTION EFFICIENCY: _____ %

Section G — OPERATING CONDITIONS

1. GAS VOLUME THROUGH CONTROL SYSTEM: NORMAL 35903 ACFM @ Ambient °F
   MAXIMUM 35903 ACFM @ Ambient °F
2. GAS TEMPERATURE: INLET Ambient °F OUTLET Ambient °F
3. STACK INFORMATION: (A) I.D. 47 INCHES OR _____ INCHES X _____ INCHES
   (B) STACK HEIGHT ABOVE GROUND 29.5 FEET
   (C) CFM EXHAUSTED 61,000 max
   (D) IS STACK EQUIPPED WITH RAIN HAT? ☐ YES ☑ NO
5. DISTANCE FROM DISCHARGE TO NEAREST PROPERTY LINE 140 FEET.

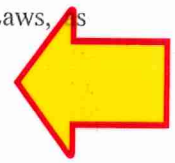
Section H — COLLECTION DATA

1. DESCRIPTION OF COLLECTED MATERIAL Airborne particulate (dust) created by the adjoining scrap metal mill
2. AMOUNT COLLECTED (LBS/DAY; GAL/DAY; ETC.) 1,720 LB/DAY
3. ULTIMATE DISPOSITION OF COLLECTED MATERIAL Following proper testing, material will be disposed of at a municipal landfill, or treated and disposed of by Cyn Environmental Services of Johnston, RI.

Section I — IN ADDITION TO THE ABOVE INFORMATION, THE FOLLOWING INFORMATION IS REQUIRED:

1. FLOW DIAGRAM SHOWING RELATIVE LOCATION OF EQUIPMENT ATTACHED TO THIS CONTROL SYSTEM.
2. MANUFACTURER'S LITERATURE FOR THE CONTROL EQUIPMENT.
3. ENGINEERING DRAWINGS FOR THE CONTROL EQUIPMENT WITH PHYSICAL DIMENSIONS.
4. PARTICULATE COLLECTION EQUIPMENT SHOULD HAVE SIZE EFFICIENCY CURVES. ABSORPTION AND ADSORPTION EQUIPMENT SHOULD HAVE SIZING CALCULATIONS, GRAPHS, EQUILIBRIUM DATA, ETC.

This application is submitted in accordance with the provisions of Chapter 23-23 of the General Laws, as amended, Regulation 9, and to the best of my knowledge and belief is true and correct.



_____ Signature

Operator, Rhode Island Recycled Metals
Title

_____ Printed Name

_____ Date

RHODE ISLAND DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR RESOURCES

AIR POLLUTION CONTROL PERMIT FEES

The Department's rules and regulations require the payment of fees for air pollution permits. All application fees must be submitted to:

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

THE APPLICATION FORM AND ANY ACCOMPANYING DOCUMENTS SHOULD BE SUBMITTED TO THE OFFICE OF AIR RESOURCES AT THE ADDRESS SHOWN ON THE APPLICATION FORM.

Please complete this form, attach it to the check or money order and submit it to the Office of Management Services. Payment should be made payable to General Treasurer, State of Rhode Island. The information requested below must be provided to coordinate the filing of your fee with your application(s). This fee is a filing fee and therefore it must be paid before we can begin review of your application(s).

APPLICANT'S NAME: Edward Sciaba, Jr., Rhode Island Recycled Metals

GENERAL DESCRIPTION OF PROCESS FROM WHICH POLLUTANTS ARISE:

Crushed and decommissioned vehicles, metal from building demolition, and home appliances are loaded into a mill/shredder unit, operating inside a 3-walled structure, for processing and separation

FEE SUBMITTED:

Major Source or Major Modification @ $25,410 each	
Complex Minor source or Modification @ $4,620.00 each	
Minor source or Modification @ $ 1,271.00 each	1,271.00
TOTAL	1,271.00

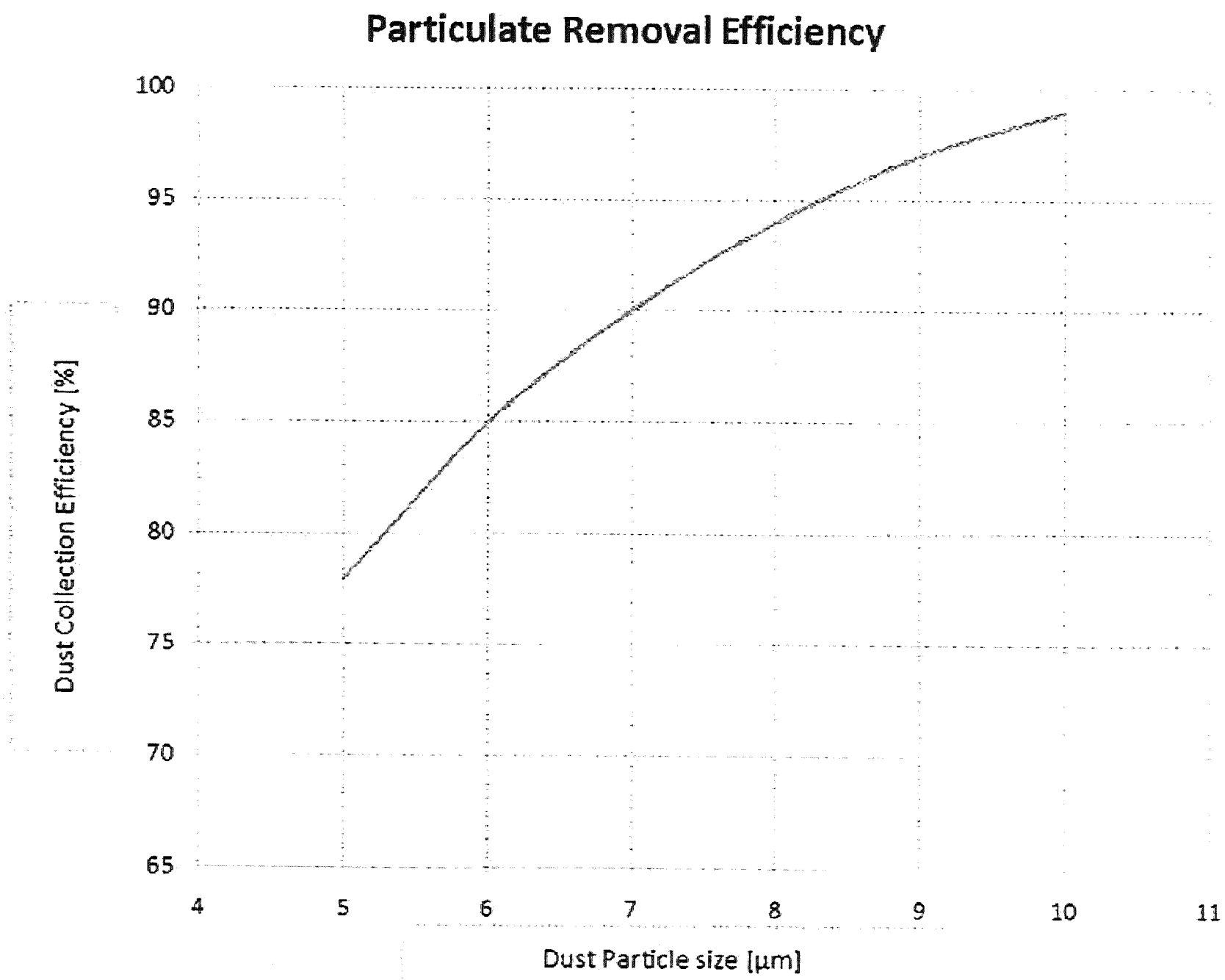
FOR OFFICE USE ONLY:
Fee Amount Received: $ _____
Date Received: _____
Received By: _____
For Deposit into Account 1752-80600

TYPE AND QUANTITY OF RAW MATERIALS USED PER HOUR

(Sect. C Item 4)

- Input quantity: 25 tons/hour total material

- Input materials: ±65% decommissioned vehicles (ferrous metals, non-ferrous metals, plastics, ASR), ±35% white goods/appliances (white iron)


Particulate Removal Efficiency
100
95
90
85
80
75
70
65
Dust Collection Efficiency [%]
4
5
6
7
8
9
10
11
Dust Particle size [µm]

APPENDIX F
INSPECTION REPORTS AND CORRECTIVE ACTION LOG

SWPPP 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
❑ Weekly ❑ Pre-storm event ❑ During storm event ❑ Post-storm event ❑ 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 SWPPP 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 SWPPP and the RIPDES Construction General Permit. The required corrective actions are noted within this inspection report.

	Print Name	Signature	Date
Inspector:			

The Site Operator (identified in the permit application) acknowledges the receipt of this SWPPP inspection report, and understands the requirements set forth in the RIPDES Construction General Permit regarding the implementation and maintenance of erosion and sedimentation controls and pollution prevention measures.

	Print Name	Signature	Date
Operator:			

Site-specific BMPs

FILL THIS TABLE USING THE SWPPP TABLES 2.13 & 3.11.

	Location/Station	BMP Description	Installed & Operating Properly?	Assoc. Photo/ Figure #	Corrective Action Needed (Yes or No; if 'Yes', please detail action required)
1			❑Yes ❑No		
2			❑Yes ❑No		
3			❑Yes ❑No		
4			❑Yes ❑No		
5			❑Yes ❑No		
6			❑Yes ❑No		
7			❑Yes ❑No		
8			❑Yes ❑No		
9			❑Yes ❑No		
10			❑Yes ❑No		
11			❑Yes ❑No		
12			❑Yes ❑No		
13			❑Yes ❑No		
14			❑Yes ❑No		
15			❑Yes ❑No		

	Location/Station	BMP Description	Installed & Operating Properly?	Assoc. Photo/ Figure #	Corrective Action Needed (Yes or No; if 'Yes', please detail action required)
16			❑Yes ❑No		
17			❑Yes ❑No		
18			❑Yes ❑No		
19			❑Yes ❑No		
20			❑Yes ❑No		
21			❑Yes ❑No		
22			❑Yes ❑No		
23			❑Yes ❑No		
24			❑Yes ❑No		
25			❑Yes ❑No		
26			❑Yes ❑No		
27			❑Yes ❑No		
28			❑Yes ❑No		
29			❑Yes ❑No		
30			❑Yes ❑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.

	Location/Station		Assoc. Photo/ Figure #	Corrective Action Needed (If 'Yes', please detail action required and include location/station)
1	Have Limits of Disturbance been properly marked and maintained?	❑Yes ❑No ❑ N/A		
2	Have perimeter controls and sediment barriers been adequately installed and maintained?	❑Yes ❑No ❑ N/A		
3	Are storm drain inlets properly protected?	❑Yes ❑No ❑ N/A		
4	Are natural resource areas (e.g., streams, wetlands, trees, etc.) protected with barriers or similar BMPs?	❑Yes ❑No ❑ N/A		
5	Have graveled access entrance and exit drives and parking areas been installed and maintained?	❑Yes ❑No ❑ 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?	❑Yes ❑No ❑ N/A		
7	Are all steep slopes and disturbed areas not actively being worked properly stabilized?	❑Yes ❑No ❑ N/A		
8	Have soils been stabilized where final grading is complete and land disturbance activities have permanently ceased?	❑Yes ❑No ❑ 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?	❑Yes ❑No ❑ N/A		
10	Have soil/gravel stockpiles been stabilized or isolated?	❑Yes ❑No ❑ N/A		
11	Are building materials which possess an elevated pollution potential stored inside or under cover?	❑Yes ❑No ❑ N/A		
12	Are stockpiles of construction wastes properly covered or disposed of to reduce exposure?	❑Yes ❑No ❑ N/A		
13	Are washout facilities (e.g. paint, concrete) available, clearly marked, and maintained?	❑Yes ❑No ❑ 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?	❑Yes ❑No ❑ N/A		
15	Are hazardous materials spill kits in place and are there enough materials as prescribed in the SWPPP to adequately prevent spills from entering any storm water drainage systems?	❑Yes ❑No ❑ N/A		
16	Have provisions been made for wind erosion and dust control?	❑Yes ❑No ❑ N/A		
17	Have areas of obvious erosion/channelization been repaired?	❑Yes ❑No ❑ N/A		
18	Are receiving conveyance systems and receiving waters at discharge points free of sediment deposition?	❑Yes ❑No ❑ N/A		
19	Is there evidence of sediment being tracked into the street or off-site?	❑Yes ❑No ❑ N/A		
20	Are non-stormwater discharges (e.g., wash water, dewatering) properly controlled?	❑Yes ❑No ❑ N/A		
21	Are post-construction BMPs protected from sedimentation prior to final stabilization and bringing them online?	❑Yes ❑No ❑ N/A		
22	Are infiltrating stormwater practices and qualifying pervious areas protected during construction activities to avoid compacting soil?	❑Yes ❑No ❑ N/A		
23	(Other)	❑Yes ❑No ❑ N/A		

(add more as necessary)

General Field Comments:

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.)

Photo #:	Station:
(insert Photo here)	Description:

Photo #:	Station:
(insert Photo here)	Description:

Photo #:	Station:
(insert Photo here)	Description:

Photo #:	Station:
(insert Photo here)	Description:

Photo #:	Station:
(insert Photo here)	Description:

Photo #:	Station:
(insert Photo here)	Description:

(add more as necessary)

Corrective Action Log

TO BE FILLED OUT BY SITE OPERATOR

Describe repair, replacement, and maintenance of BMPs, actions taken, date completed, and note the person that completed the work.

	Location/Station	Corrective Action	Date Completed	Person Responsible
Operator Signature:			**Date:**	

APPENDIX G
CONSTRUCTION SWPPP AMENDMENT LOG

Amendment Log

TO BE FILLED OUT BY SITE OPERATOR

Describe amendment to be made to SWPPP, 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	12/28/2012	Updated MSGP SWPPP per RIDEM comments	Shane Oates, Project Mgr.	
2				
3				
4				
5				
6				
7				
8				
9				
10				

Add more lines/pages as necessary

APPENDIX H
FACILITY STANDARD OPERATING PROCEDURES

- Oil & Hazardous Materials Spill Response

  Produced by Lake Shore Environmental, Inc., Cumberland RI 02864

- Previously Submitted Soil Management Plan

STANDARD OPERATING PROCEDURE
RI Recycled Metals, Inc.
434 Allens Avenue
Providence, RI

Oil & Hazardous Material Spill Response

Objective:

The objective of this Standard Operating Procedure (SOP) is to provide RIRM employees with guidelines for properly responding to spills and releases of automotive fluids wherever they may occur at the MMI facility. Responses to such releases will involve containment, notification, and proper disposal of any spilled liquids. Proper response and cleanup of spilled material will protect soil, groundwater and the Narragansett Bay from adverse impacts from these sometimes toxic materials.

Affected Areas:

This SOP applies to all areas of the facility. Most spills occur when automotive fluids are drained from large equipment in the yard that doesn't fit within the Enviro/SEDA Rack enclosure. Other spills may occur at the car crusher, Enviro/SEDA Rack enclosure, non-ferrous processing area, equipment maintenance areas, or the marine salvage areas along the shoreline.

Spilled Materials:

These automotive fluids include waste motor oil, gas (good & bad), diesel, hydraulic oil, transmission oil, axel oil, antifreeze and break fluid. A release (spill) of any of these materials requires an immediate response.

Required Materials:

In order to have the proper materials on hand to respond to a spill of oil or hazardous materials, some basic materials should always be kept on hand at sufficient quantities. These include speedi-dry (10 bags min.), oil adsorbent containment booms (75 feet), and oil adsorbent pads (a.k.a. diapers). These spill response materials will be stored within the auto-processing tent. A designated stockpile of clean fill that is of low permeability would be good to have on hand. This could be a 10 yard pile of sandy silt (typically referred to as "washings" from a sand and gravel plant such as Material Sand & Stone).

Spill Response/Notification:

Small Spills: Any spill of any of the above described materials that causes a stain on the ground surface must be cleaned up immediately. Small spills can be collected manually with shovel and transferred with a 5 gallon bucket or similar container to the designated drum storage area

located at the car processing tent. Any spill caused or observed that is greater than 1 foot diameter and/or is greater than ½-gallon in volume must be reported immediately to Ken Hanley. Contaminated soil resulting from a spill or release of any automotive fluid that results in filling more than half of a 55-gallon drum must be reported to the Rhode Island Department of Environmental Management (RIDEM). Larger spills can be cleaned up under Ken's supervision using the facilities' bobcat or similar heavy equipment.

Large Spills: Spills that result in large standing puddles of automotive fluid present additional threats to surface water and groundwater. Large spills will also likely require more extensive cleanup than can be accomplished with a bobcat & shovel. In these cases, in conjunction with immediately notifying Ken Hanley & the RIDEM, the person that first discovers the spill must assess the potential for the spilled liquid to reach open waters of the Bay or adjoining waterways. **Immediate Action is Vital!!!!** If the fluid is continuing to move or if the release is uncontained, an oil adsorbent boom and mounds of low-permeability soil should be positioned to contain the release and prohibit it from entering the nearby waterways. Speedi-dry should also be used to contain and/or adsorb the spilled liquid.

Contact Information:

RIRM Office: 401-461-9700
Edward Sciaba (Cell): 617-293-8700
Ken Hanley (Cell): 401-450-9514

David Hazebrouck (cell)
Lake Shore Environ. 401-338-3286

RIDEM Emergency Response Program: (401) 222-1360 (normal business hours)

RIDEM Environ Police: (401) 222-3070 (24-hour hotline)

Coastline Consulting & Development, LLC
Waterfront Planning, Permitting, and Development

October 20, 2010

Ross A. Singer, Engineer
Rhode Island Department of Environmental Management
Office of Waste Management
235 Promenade Street
Providence, RI 02908

RE: Request for Soil Disturbance Approval - Revised
434 Allens Avenue, Providence

Dear Mr. Singer:

Per your request, I have enclosed a revised Soil Management Plan and Project Narrative. As requested, the documents now specifically discuss the installation of the infiltration trench. The Soil Management Plan also details the plan to have all disturbed areas covered with two feet of clean material, and to ensure clean material within the infiltration trench to its juncture with the groundwater elevation.

Feel free to contact me if you have any questions or comments at 203/245.8138 or david@coastlineconsulting-ct.com. We appreciate your assistance and look forward to hearing from you.

Sincerely,

David R. Provencher
Coastline Consulting & Development, LLC

Enclosures:
Soil Management Plan (Revised)
Project Narrative (Revised)

cc:
Dan Goulet, CRMC
Ronald Gagnon, RIDEM
Eddie Serpa

Stonington, CT
(860) 535-9393

5-B Old Post Road, Madison, CT 06443
Phone: (203) 245-8138 Fax: (203) 245-4214
www.coastlineconsulting-ct.com

Greenwich, CT
(203) 861-1990

SOIL MANAGEMENT PLAN

434/444 Allens Avenue (Plat 47, Lot 601; Plat 55, Lot 10), Providence, RI

This Soil Management Plan (SMP) has been prepared to establish procedures that will be followed during the bulkhead installation at 434 & 444 Allens Avenue in Providence, Rhode Island. This proposed project requires the need to manage soils excavated from the subsurface. The plan serves to supplement, and will be initiated by, the RIDEM notification requirement established by the Environmental Land Use Restriction (ELUR) for the property.

Background

The property is located at 434 & 444 Allens Avenue in Providence. According to the U.S. EPA, Region 1 – New England, the site was formerly "...owned by various parties including U.S. Lumber Company and Putnam Lumber Company. From 1972 to 1979, the property was owned by Texaco, Inc. Refine Met International (Refine Met) acquired the property in 1979 and reportedly used the property as a resource recovery facility where scrap metal, computer parts, circuit boards, capacitors, radios, and selected electronic components were shredded. Capacitors manufactured prior to the 1970s frequently contained dielectric fluid composed of polychlorinated biphenyls (PCBs). On-site activities conducted while Refine Met occupied the property are unknown. Belliden purchased the property from Refine Met in 1983 and operated the site as a resource recovery facility engaged in the reclamation of precious metals and minerals from 1983 to 1989. Scrap metals were received in bulk form, shredded, sampled, categorized, and accumulated for shipment to smelters overseas. The property is currently inactive."

The property was found to contain PCBs during a site investigation performed at the property. More recently, the site has been remediated and been found in compliance with RIDEM's Rules and Regulations for the Investigation and Remediation of Hazardous Material Releases and has remained undeveloped since this time. The Department approved remedy apparently included the excavation of contaminated soils and filling with clean material. The regulated site soils are covered with Department approved engineered controls, consisting of clean soil and vegetation in order to prevent direct exposure to regulated soils and/or infiltration through soils which exceed the Department's Method 1 (GA or GB) Leachability Criteria.

Project Purpose

The purpose of this plan is to provide precautions and measures to be taken during and after construction to minimize soil erosion and sedimentation. The activity along the waterfront consists of the installation of a commercial/industrial shoreline protection structure and improvement dredging to create deep-water access and berthing. All structural components, save the three tie-off piles, will be located landward of the mean high water line. The proposed bulkhead and tie-off piles, in conjunction with the dredging, will allow derelict vessels to temporarily berth in a perpendicular fashion directly along the property's shoreline. The redeveloped waterfront will serve to facilitate the dismantling of derelict vessels. The scrap metal produced during the dismantling process will then be transferred to the upland and transported off-site to an appropriate upland recycling facility. The proposed upland activities involve the

installation of the bulkhead deadman anchor & tie-rod system with associated infiltration trench, and installation of a low-profile concrete work pad. The proposed structures involve negligible change in grade landward of the bulkhead location and no construction of above-ground structures. As a result, the proposed project will maintain existing upland topography.

Applicable Area

This SMP and affiliated ELUR, which restricts the property to Industrial/Commercial use, pertain to the entire property.

Project Details

The proposed activities include installation of a steel sheetpile bulkhead with a deadman anchor and tie-rod system with associated infiltration trench and installation of a low profile concrete work pad. All components will be constructed landward of the mean high water line. The proposed activities involve negligible change in grade landward of the bulkhead location with no above-ground structures. As a result, the proposed project will maintain existing upland topography. The anticipated construction methodology and project sequencing is outlined in the following section. At this time, it is projected that a total of approximately 2,146 cubic yards of material will be temporarily excavated for the bulkhead tie-back system and infiltration trench in multiple stages. The limit of this temporary excavation is shown on the application drawings. Any excess soil will be analyzed to confirm that it is below RIDEM direct exposure criteria. If the excess material meets RIDEM requirements, it will be redeposited on-site. Any material not meeting minimum RIDEM requirements will be properly disposed of at a RIDEM approved facility. In addition, it is projected that a total of approximately 300 cubic yards of material will be excavated waterward of the bulkhead down to the MHW elevation of +4.4' MLW. The limit of this excavation is shown on the application drawings. Any excavated soil will also be tested and either redeposited on-site or transported off-site per RIDEM instruction and approval. The project is anticipated to take approximately 90 working days to complete.

Construction Methodology & Project Sequencing

The installation of the above noted components will be conducted in multiple stages as outlined below.

1. The first phase of the project will consist of installing the steel sheeting. The bulkhead location will be properly staked with survey equipment prior to the initiation of construction activities. The installation of the sheeting will be conducted from a land based crane using a vibratory hammer. No excavation is planned with this phase, as the contractor will install the sheeting by ground penetration. The contractor will start at the northerly end of the property and work in a southerly direction, installing all sheeting in its entirety prior to installation of the deadman system.

2. Next, the contractor will begin installation of the tie-back system and infiltration trench by excavating the soil on the landward side of the new steel sheeting. The work will be conducted from the upland, landward of the mean high water line, and will not impact coastal resources. This work will be accomplished by use of a

backhoe stationed on the upland. The contractor will temporarily stockpile the backfill material on an upland portion of the site. A silt fence will be installed around the perimeter of all stockpiled material.

3. Next, the contractor will begin installing the upland concrete deadmen. Temporary timber framing will be constructed to form the concrete deadman. The deadman will be then poured by machinery stationed from the upland. Once the concrete has cured, the timber forms will be removed.

4. Next, the Contractor will begin installing the waiers and tie-rods. Twelve-inch waiers will be installed on the landward face of the new steel sheeting. Tie-rods will then be connected from the deadman system to the whalers on the backside of the new steel sheeting.

5. Once the steel tie-rods are connected, the infiltration trench will be lined with geotextile fabric and backfilled with clean crushed stone obtained from an approved offsite location. The trench will be covered with a layer of geotextile fabric and topped with clean soil. A backhoe and skid steer will return the ground to existing grade.

6. The contractor will then excavate the area waterward of the new steel bulkhead down to the MHW elevation of +4.4' M.L.W. Excavation will be conducted using an upland based excavator. This material will be disposed of on the project site landward of the proposed bulkhead or transported off site to an appropriate upland facility per RIDEM instruction and approval.

7. As the final step before the dredging project, the contractor will then install the low profile concrete work pad. The pad will be located within the area already disturbed by the installation of the deadman system.

Soil Management

The direct exposure pathway is the primary concern at the site. Individuals engaged in activities at the site may be exposed through incidental ingestion, dermal contact, or inhalation of vapors or entrained soil particles if proper precautions are not taken. Therefore, the following procedures will be followed to minimize the potential of exposure.

1. All standards and specifications set forth in the most recent RI Soil Erosion and Sediment Control Handbook (RISESCH) will be strictly adhered to. Control measures will follow the specifications depicted in the attached R.I. Standards drawings from the Rhode Island Department of Transportation.

2. Hay bales will be toed in to a depth of 3 to 4 inches and maintained by replacing bales where necessary until permanent re-vegetation of the site is completed.

3. Where natural or manmade slopes are or have become susceptible to erosion, the slopes will be graded to a suitable slope and re-vegetated with thick rooting brush vegetation. Mulch will be applied as necessary to provide protection against erosion until the vegetation is established.

4. Construction will be timed to accommodate runoff flow and to allow flows over exposed, un-stabilized soils, or into or through the area of temporary excavation.

5. During site work, the appropriate precautions will be taken to restrict unauthorized access to the property.

6. During all site/earth work, dust suppression (i.e. watering, etc) techniques must be employed at all times. If it is anticipated due to the nature of the contaminants of concern that odors may be generated during site activities, air monitoring and means to control odors will be utilized, as appropriate (i.e. odor-suppressing foam, etc).

7. In the event that an unexpected observation or situation arises during site work, such activities will immediately stop. Workers will not attempt to handle the situation themselves but will contact the appropriate authority for further direction.

8. In the event that certain soils on site were not previously characterized, these soils are presumed to be regulated until such time that it is demonstrated to the Department, through sampling and laboratory analysis that they are not regulated. (For example, presumptive remedies or locations of previously inaccessible soil.)

9. The excess soil generated/excavated from the property will remain on-site for analytical testing, to be performed by an environmental professional, in order to determine the appropriate disposal and/or management options. The soil will be placed on and covered with polyethylene/plastic sheeting during the entire duration of its staging and secured with appropriate controls to limit the loss of the cover and protect against storm-water and / or wind erosion (i.e. hay bales, silt fencing, rocks, etc).

10. Excavated soils will be staged and temporarily stored in a designated area of the property. Within reason, the storage location will be selected to limit the unauthorized access to the materials (i.e., away from public roadways/walkways).

11. In the event that stockpiled soils pose a risk or threat of leaching hazardous materials, a proper leak-proof container (i.e. drum or lined roll-off) or secondary containment will be utilized.

12. Soils excavated from the site will not be re-used as fill on residential property. Temporarily excavated fill material will be backfilled or redeposited on-site following completion of earthwork activities.

13. Although it is not anticipated at this time, site soils that are to be disposed of off-site will be done so at a licensed facility in accordance with all local, state, and federal laws. Copies of the material shipping records associated with the disposal of the material will be maintained by the site owner and included in the annual inspection report for the site.

14. Best soil management practices will be employed at all times and regulated soils will be segregated into separate piles (or cells or containers) as appropriate based upon the results of any necessary analytical testing for reuse on-site.

15. All non-disposable equipment used during the soil disturbance activities will be properly decontaminated as appropriate prior to removal from the site. All disposable equipment used during the soil disturbance activities will be properly containerized and disposed of following completion of the work. All vehicles utilized during the work shall be properly decontaminated as appropriate prior to leaving the site.

16. At the completion of site work, all exposed soils will be recapped with Department approved engineered controls (2 ft of clean fill or 1 foot of clean fill underlain with a geotextile liner) consistent or better than the site surface conditions prior to the work that took place. These measures will be consistent with the Department approved ELUR recorded on the land records. The clean fill material brought on site will meet the Department's Method 1 Residential Direct Exposure Criteria or be designated by an Environmental Professional as Non-Jurisdictional under the Remediation Regulations. The Annual Inspection Report for the site, or Closure Report if applicable, will either include analytical sampling results from the fill demonstrating compliance or alternatively include written certification by an Environmental Professional that the fill is not jurisdictional.

Groundwater Management

In accordance with the ELUR, groundwater under the property will not be used for potable purposes. The temporary excavation necessary to install the bulkhead tie-back system, infiltration trench, and low profile concrete work pad will not affect groundwater. However, any unanticipated pumping of groundwater, which may be necessary for de-watering, will be discharged into sediment traps consisting of a minimum of staked hay bale rings enclosing crushed stone or trap rock of a size sufficient to disperse inflow velocity. Hay bales encircling these traps will be recessed 4 to 6 inches into the soil and maintained.

In order to ensure that water passing through the infiltration trench contacts only clean materials, the infiltration trench will extend to the juncture with groundwater. The trench will be lined with a geotextile fabric and filled using clean crushed stone.

Worker Health and Safety

To ensure the health and safety of on-site workers, persons involved in the excavation and handling of the material on site will wear a minimum of Level D personal protection equipment, including gloves, work boots and eye protection. Workers will also be required to wash their hands with soap and water prior to eating, drinking, smoking, or leaving the site.

PROJECT INFORMATION

Proposed Filling Category

The activity along the waterfront consists of the installation of a commercial/industrial shoreline protection structure and improvement dredging to create a deep water berthing area. As a result, this proposed project should qualify for the RI Coastal Resources Management Program Category B Assent Application Section 300.1

Proposed Project Description & Scope of Authorization

The applicant proposes to install a new steel bulkhead along the property's waterfront and to conduct improvement dredging waterward of the new bulkhead. The complete proposed Scope of Authorization is outlined below and is shown on application Figures 1-14.

1. Install a new ***steel bulkhead*** landward of the MHW line that measures 355 linear feet and is comprised of steel sheeting. The steel sheeting will have two (2) 12" x 12" whalers installed on the landward side.

2. Install a ***deadman and tie-back system***, consisting of 355 linear feet of 4' x 4' concrete anchor with steel rod tie-backs installed approximately every 9 feet.

3. Install an ***infiltration trench*** along the landward face of the proposed bulkhead measuring 10 feet deep, 5 feet wide and 355 feet in linear length, resulting in 17,750 cubic feet of trenching.

4. Remove the ***derelict timber structures*** located along the waterside area.

5. Remove an area of ***riprap*** measuring 244' long, 31' at its widest point, covering 4,602 square feet, and consists of approximately 512 cubic yards of material.

6. Consolidate an area of ***riprap*** measuring 115' long, 21' wide, covering 1,788 square feet, and consists of approximately 198 cubic yards of material. Remove any foreign objects which have become lodged within the riprap.

7. ***Excavate*** 500 cubic yards of sediment from an area that is irregular in shape and measures approximately 33' at its widest point, 244' in length, and covers 3,813 square feet. This material will be excavated down to the MHW elevation of +4.4' MLW.

8. Install an upland ***concrete work/storage pad*** measuring 80' wide, 120' long, and 10" deep.

9. Conduct ***improvement dredging*** of 48,000 cubic yards of sediment from an area that is roughly rectangular in shape and measures approximately 350' at its widest point, 670' in length, and covers 212,775 square feet. Dredging within this footprint is proposed to a control depth of -14.0' MLW (+ 1.0' overdredge), dredged in a box-cut fashion with an inadvertent 3:1 side slope.

10. Install three new ***timber dolphin pile clusters*** consisting of seven (7) piles each.

Construction Methodology & Project Sequencing

The proposed project will be conducted in multiple stages as outlined below.

1. The first phase of the project will consist of installing the steel sheeting. The bulkhead location will be properly staked with survey equipment prior to the initiation of construction activities. The installation of the sheeting will be conducted from a land-based crane or waterside barge using a vibratory hammer. If conducted from a barge, all work will take place during periods of high water. At no time will the barge rest on the harbor substrate. No excavation is planned with this phase, as the contractor will install the sheeting by ground penetration. The contractor will start at the northerly end of the property and work in a southerly direction, installing all sheeting in its entirety prior to installation of the deadman system.

2. Next, the contractor will begin installation of the tie-back system with associated infiltration trench by excavating the soil on the landward side of the new steel sheeting. The work will be conducted from the upland, landward of the mean high water line, and will not impact coastal resources. This work will be accomplished by use of a backhoe stationed on the upland. The contractor will temporarily stockpile the backfill material on an upland portion of the site. Erosion and sedimentation controls will be installed around the perimeter of all stockpiled material.

3. Next, the contractor will begin installing the upland concrete deadman anchor. Temporary timber framing will be constructed to form the concrete deadman. The deadman will be then poured by machinery stationed from the upland. Once the concrete has cured, the timber forms will be removed.

4. Next, the contractor will begin installing the walers and tie-rods. Twelve-inch walers will be installed on the landward face of the new steel sheeting. Tie-rods will then be connected from the deadman system to the whalers on the backside of the sheeting.

5. Once the steel tie-rods are connected, the infiltration trench will be lined with geotextile fabric and backfilled with clean crushed stone obtained from an approved offsite location. The trench will be covered with a layer of geotextile fabric and topped with clean soil. A backhoe and skid steer will return the ground to existing grade.

6. Once the bulkhead is in place the contractor will begin removing the derelict timber structures located along the waterside area. Working from a either a land-based or waterside mounted crane, the contractor will lift the structures from the substrate and place them into trucks waiting just landward of the newly constructed bulkhead. The material will be properly disposed of at an appropriate upland facility. At no time will the barge rest on the harbor substrate.

7. Next, the contractor will work on removal of the riprap. Working from a either a land-based or waterside mounted crane, the contractor will extract the riprap stones and lift them into trucks waiting along the waterside. The material will be properly disposed of at an appropriate upland facility.

8. Next, the contractor will work on consolidating the area of riprap which is to remain. First, the contractor will remove any foreign material which has become lodged in the riprap. The material will be removed by hand or using a land-base/barge mounted crane as appropriate. All material will be properly disposed of at an appropriate upland facility. The contractor will then proceed by strategically stacking and interlocking appropriately sized stones within the existing riprap until the dislodged stones have been completely relocated. All of these activities will be conducted during periods of low water from a land-base/barge mounted crane as appropriate. No new stone material is proposed for this activity.

9. The contractor will then excavate the area waterward of the new steel bulkhead down to the MHW elevation of +4.4' M.L.W. Excavation will be conducted using an upland based excavator. This material will be analyzed, and if below RIDEM direct exposure criteria, will be disposed of on the project site landward of the proposed bulkhead. If the material does not meet minimum requirements, it will be transported off site to an appropriate upland facility per RIDEM instruction and approved.

10. Next, the contractor will install the upland concrete work/storage pad. The area will be temporarily excavated with a small skid steer and hand tools as appropriate. Temporary timber forms will then be secured to form the shape of the pad. Reinforcing rebar will then be tied in place on the interior of the forms. Concrete will then be fed into the form. Once the concrete has cured, the temporary timber forms will be removed and clean soil will be backfilled against the sides of the pad.

11. Next, the contractor will work on the dredging portion of the project. Dredging and disposal operations are proposed to be conducted using the mechanical clam-shell and/or barge based excavator method. A dredge window of October 1 through January 1 is being proposed, as per Dan Goulet in a phone conversation on January 27, 2010. A thorough disposal alternatives analysis will be performed following the completion of the sediment sampling investigation to evaluate the potential uses and/or methods of disposal. However, it is anticipated that dredge spoils will be disposed of at the Confined Aquatic Disposal (CAD) cells located in the upper reaches of the Providence River. Dredging will be conducted in phases, based upon funding at the time. Given the lack of dredging in the immediate area, accretion rates cannot be determined, and therefore maintenance dredging will be performed as needed.

12. Lastly, the contractor will install the dolphin pile clusters. Pile driving will be conducted using a barge mounted crane and pneumatic/vibratory hammer. For each dolphin cluster, the king pile will be driven first, and the battered piles will then be installed around it. Once the final battered pile is installed, the battered piles will be affixed to the king pile using steel cable.

SECTION 300.1 – CATEGORY B REQUIREMENTS

Need For Proposed Activity

The applicant wishes to develop this vacant lot into a scrap metal transfer facility. This operation will require the installation of a new steel bulkhead along the property shoreline, removal of various shoreline structures, improvement dredging to create deep-water access and berthing, and installation of dolphin pile clusters. The property is located at 434 & 444 Allens Avenue, Providence, Rhode Island on the shore of Providence Harbor near the mouth of the Thurbers Avenue Creek. The property has historically been used for industrial purposes, but has remained largely undeveloped for many years. The inactivity of the property is evident as the site is comprised of derelict bulkheads, a derelict timber pier, and riprap stabilization along the shoreline.

The proposed project involves the installation of a steel sheetpile bulkhead with a concrete deadman anchor and steel tie-rod system, removal of various shoreline structures, improvement dredging to create deep-water access and berthing, and installation of dolphin pile clusters. All components of the bulkhead will be located landward of the mean high water line. The proposed bulkhead, in conjunction with the structure removal and dredging, will allow commercial vessels to temporarily berth in a perpendicular fashion directly along the property's new deepwater shoreline. The dolphin pile clusters will allow the applicant to temporarily tie up derelict vessels which will be salvaged for scrap metal. The redeveloped waterfront will serve to facilitate acceptance of scrap metal from the dismantling of derelict vessels marked for salvage. The scrap metal produced from this operation will be transported off-site to an appropriate upland recycling facility. As such, the application intends to return the property to its historical use as an operational industrial facility.

Local Ordinances, Codes, Standards, and Requirements

The proposed activities will conform to all applicable local ordinances. The following is a summary of local regulatory consultations and associated site/operation details.

The City of Providence Tax Assessor has provided us with the "Summary Record Cards" as proof that ACR Realty, LLC is the owner of the property (see Project Correspondences).

A formal correspondence (see Project Correspondences) has been obtained from Mr. Kerry Anderson, Building Official, City of Providence, Department of Inspections and Standards, outlining his comments on the project. In addition, the City of Providence, Department of Inspections and Standards, completed and returned the CRMC Building Code & Zoning Ordinance review form (see Project Correspondences). This completed form confirms that the project conforms with all elements of the zoning ordinance.

The proposed activities will not involve any new parking areas – facility employees will utilize existing parking areas. The proposed activities will not involve any new sanitary systems – facility employees will use temporary portable toilets until the restrooms in the "Existing Wood Frame Building" can be repaired.

Boundaries of Coastal Waters and Land Area

The proposed project site is a vacant lot located at 434 & 444 Allens Avenue, Providence. The northerly abutting property consists of a property owned by the City of East Providence which serves as an upland lot for the waterline crossing Providence Harbor. The direct southerly abutting property is a small paper lot known as Thurbers Avenue which is owned by the City of Providence. The next southerly developed property consists of an oil terminal owned by Motiva Enterprises, LLC. A recent site review by Coastline Consulting & Development, LLC shows that the project site consists of a large undeveloped parcel of land with derelict buildings and railroad tracks. Along the water there is a derelict bulkhead, a derelict timber pier, and riprap stabilization. The derelict structures have not been maintained for many years, are no longer serviceable, and will be removed as a component of this project. The riprap stabilization is described in greater detail below:

> ***Riprap Stabilization*** - Riprap stabilization contours the complete length of the property shoreline from the northerly abutting property to Thurbers Avenue Creek. The riprap measures 380' in linear length, is approximately 10' – 20' wide, 1' – 3' deep, and contains approximately 400 cubic yards of stone and broken concrete slabs.

Erosion and Deposition Analysis

The purpose of the proposed project is to provide a necessary berthing face with adjacent deep-water access and berthing directly along the property's shoreline. Shoreline erosion and deposition is not anticipated as no solid fill structures are proposed. Minimal natural siltation is anticipated once dredging is complete.

Plant & Animal life Analysis

Coastline Consulting & Development, LLC evaluated potential impacts to the abundance and diversity of plant and animal life. An assessment of each is provided below.

> *Plant life*
>
> The project has been specifically located in an area so as not to affect the tidal wetlands on the project site. The bulkhead is located over an area that has historically been used for shoreline stabilization as found evident by the derelict structures and riprap & stone rubble. Also, there is no SAV within the dredge footprint. Therefore, no impacts are anticipated to plant life.

> *Animal life*
>
> No impacts are anticipated to animal life as the proposed project has been properly designed according to specific site characteristics. The bulkhead has been located landward of the MHW line and outside of coastal resources. Furthermore, bulkheads are common structures along this stretch of Providence Harbor including a bulkhead immediately to the south. Dredging is being proposed within a window which has been determined to minimize impacts to animal life. Therefore, no impacts are anticipated to animal life.

Public Access Evaluation

With regard to public use of the public trust lands and waters waterward of the MHW line, little to no adverse impacts are anticipated as the proposed project is located in an area defined as Type VI waters. These waters are defined by the Rhode Island CRMC as Industrial Waterfront and the intended use of these waters are for servicing water dependent facilities. As previously discussed, this project intends to return this site to historical use as an operational industrial facility. As a result, there will be no new adverse impacts to the public trust.

Water Circulation Analysis

The project will not involve any activity within the waterway that would cause adverse impacts to circulation or flushing. Following completion of the dredging activities, the wave energy breaking along the bulkhead face will largely disperse before reaching the mud line, and therefore will not likely re-suspend small particulates. As such, turbidity will not be significantly impacted. The hydrography in the area does not indicate that significant sedimentation is occurring at the site, and as such no significant impacts are anticipated to sedimentation. Finally, the three proposed dolphin piles will be spaced 50 feet apart, thus eliminating any localized adverse impacts to water circulation.

Water Quality Analysis

The proposed project will include the installation of an infiltration trench to manage stormwater runoff from the site. The trench has been designed as per the Stormwater Design and Installation Standards Manual. As such, no adverse impacts are anticipated from the proposed project.

Historic and Archaeological Significance

Coastline Consulting & Development, LLC conducted a phone interview on November 5, 2009 with Jason Martin of the City of Providence, Historic District Commission. Mr. Martin stated that this project site is not located in an area of historic and archaeological significance.

Water Dependent Uses

During the initial planning stages, Coastline Consulting & Development, LLC carefully evaluated the potential impacts to water dependent uses. In order to avoid potential impacts, it was important to evaluate specific site characteristics so that appropriate design measures could be implemented. Based upon our review, it is our opinion that there will be no adverse impacts to local navigation due to the following factors:

1. The applicant's property is located along a stretch of Providence Harbor where large vessels and barges transit regularly. The infrequent vessel traffic that will result from the dismantling of derelict vessels will create no new navigation impacts.

2. The bulkhead has been designed to allow large vessels to berth directly up to and alongside the property's shoreline. The bulkhead is located away from the federal navigation channel and is centrally located along the property. Therefore, when the vessels are berthed up to the bulkhead, there will be no obstructions to navigation within the channel.

3. The proposed dredging will allow vessels to access the bulkhead directly through their upstream areas and will therefore not impact neighboring facilities.

Scenic Impact Evaluation

During the preliminary planning stages of this project, Coastline Consulting & Development, LLC carefully evaluated the potential scenic impacts to the surrounding area. Based upon our review, the project site is located in an industrialized portion of Providence Harbor. The water dependent facilities serve to support the large vessels that transit this area, and this project is consistent with all neighboring activities. It is therefore evident that this project will not impose any new adverse scenic impacts.

ADDITIONAL CATEGORY B REQUIREMENTS

Section 300.2 Filling, Removing, or Grading of Shoreline Features

Coastline Consulting & Development, LLC reviewed and evaluated Section 300.2 to determine the applicable requirements as it pertains to the proposed project. In addition, it was also necessary to determine the appropriate steps to meet the requirements of the property's Environmental Land Use Restriction (ELUR). In accordance with the ELUR, a formal request for soil disturbance has been made to the RI DEM (see attached). This request to the DEM includes a project specific Soil Management Plan. In an e-mail correspondence from Mr. Dan Goulet on November 24, 2009, Mr. Goulet stated that CRMC would accept the DEM Plan in place of a separate Erosion & Sedimentation Control Plan.

Section 300.3 Residential, Commercial, Industrial, and Recreational Structures

Coastline Consulting & Development, LLC reviewed and evaluated Section 300.3 to determine the applicable requirements as it pertains to the proposed project. The results of our evaluation are outlined in the following sections.

Public Access Plan – The applicant is requesting a variance to remove the requirement of a Public Access Plan for the site. An analysis of the six criteria outlined under Section 120 - Variances follows below.

1 *Conformance to Applicable Goals and Policies*
The two applicable Standards for *Part Two* are 200.6 - Type 6 Industrial Waterfronts and Commercial Navigation Channels and 210.6 - Manmade Shorelines.

Standard 200.6 states the following: "Highest priority uses of Type 6 waters and adjacent lands under Council jurisdiction are: (a) berthing, loading and unloading, and servicing of commercial vessels; (b) construction and maintenance of port facilities, navigation channels, and berths; and (c) construction and maintenance of facilities required for the support of commercial shipping and fishing activities."

Since the purpose of the project is to create a berthing area for a commercial operation, this project conforms to the goals and policies of Standard 200.6.

Standard 210.6 states the following: "The Council's goals are: (a) to encourage the maintenance of structures that effectively mitigate erosion and/or sustain landforms adjacent to the water; and (b) prevent the accumulation of debris along the shore where such structures are ineffective or no longer in active use."

The proposed bulkhead will mitigate erosion along the waterfront. The bulkhead will also mitigate the current problem of debris accumulating along the dilapidated shore structures. As such, this project conforms to the goals of Section 210.6.

The project will also conform to the applicable Standards listed under ***Part Three***, as outlined in the following sections (300.4 – 300.18).

2. *Environmental Impacts & Use Conflicts*
The proposed project will conform to all applicable environmental guidelines, and therefore is not anticipated to cause any significant adverse environmental impacts. The project location is currently an undeveloped lot with a dilapidated riprap shoreline. The current conditions of the waterfront area are such that passage below the mean high water line is unsafe. As such, the project is not anticipated to have any significant adverse impacts to use.

3. *Site Conditions*
The purpose of the project is to facilitate the berthing of derelict vessels for decommissioning and dismantling. The dismantling and scrap material transfer process would pose potential hazards to pedestrians attempting to traverse the bulkhead. As such, conditions at the site would prevent the applicable Standard from being met.

4. *Minimum Variance*
The only portion of the Standard for which a variance is being sought is the need for public access. All other aspects of the Standard are being adhered to and will be met.

5. *Prior Action of the Applicant or Predecessors in Title*
The requested variance is not due to any prior action of the applicant or the applicant's predecessors in title.

6. *Undue Hardship*
The purpose of the project is to facilitate the dismantling of derelict vessels. The scrap material transfer process would pose potential hazards to pedestrians attempting to traverse the bulkhead. As such, conditions at the site would prevent the applicable Standard from being met.

Conformance with Local Zoning Ordinance - The City of Providence, Department of Inspections and Standards, completed and returned the CRMC Building Code & Zoning Ordinance review form (see attached) confirming that the plans conform with all elements of the zoning ordinance.

Conformance with the Rhode Island State Building Code - A formal correspondence (see attached) has been obtained from Mr. Kerry Anderson, Building Official, City of Providence, Department of Inspections and Standards, stating his review comments on the bulkhead portion of the project. In addition, the City of Providence, Department of Inspections and Standards, completed and returned the CRMC Building Code & Zoning Ordinance review form (see attached).

Conformance with State Safety/Fire Codes and Environmental Requirements – The activity along the waterfront consists of the installation of a commercial/industrial shoreline protection structure and improvement dredging to create deep-water access and berthing. All structural components will be located landward of the mean high water line. In conjunction with the dredging, the proposed structure will serve to facilitate the dismantling of derelict vessels. The results of an evaluation of applicable codes is outlined in the following sections.

Safety Codes
There are no habitable or other traditional enclosed structures proposed as part of this application. The applicant will install all safety items (i.e., fence along bulkhead, gates, warning signs, etc.) as required by applicable codes.

Fire Codes
There are no habitable structures, enclosed structures, electrical components, or flammable materials included as part of this application. As such, the project should be in conformance with applicable fire codes.

Environmental Requirements
With regard to the site's Brownfield history, the property has a Certificate of Completion from the US EPA, a Letter of Compliance from the RI DEM, and an Environmental Land Use Restriction document on file with the City land records. A formal correspondence and Soil Management Plan (see attached) has been submitted to Ms. Margaret Bradley, Project Manager, Rhode Island Department of Environmental Management, requesting disturbance of site soils.

In addition, the aforementioned formal correspondence received from Mr. Kerry Anderson, Building Official, City of Providence Department of Inspections and Standards, includes a checklist of "Minimum Requirements to Apply for Commercial and Mixed Use" which lists the project specific submittal requirements.

Section 300.4 Recreational Boating Facilities
The activity along the waterfront consists of the installation of a commercial/industrial shoreline protection structure and improvement dredging to create deep-water access and berthing. All structural components, save the three tie-off piles, will be located landward of the mean high water line. The proposed bulkhead and tie-off piles, in conjunction with the dredging, will allow derelict vessels to temporarily berth in a perpendicular fashion directly along the property's shoreline. The redeveloped waterfront will serve to facilitate the dismantling of derelict vessels. The scrap metal produced from dismantling will then be transferred to the upland and transported off-site to an appropriate upland recycling facility. As such, the proposed project does not involve structures or activities that are part of a recreational boating facility.

Section 300.5 Mooring and Anchoring of Houseboats & Floating Businesses

The activity along the waterfront consists of the installation of a commercial/industrial shoreline protection structure and improvement dredging to create deep-water access and berthing. All structural components, save the three tie-off piles, will be located landward of the mean high water line. The proposed bulkhead and tie-off piles, in conjunction with the dredging, will allow derelict vessels to temporarily berth in a perpendicular fashion directly along the property's shoreline. The redeveloped waterfront will serve to facilitate the dismantling of derelict vessels. The scrap metal produced from dismantling will then be transferred to the upland and transported off-site to an appropriate upland recycling facility. As such, the proposed project does not involve structures or activities that are part of the mooring/anchoring of houseboats and floating businesses.

Section 300.6 Treatment of Sewage and Stormwater

The proposed activities do not meet the definition of Large Projects as outlined in Section 300.6.A.7. The proposed activities have therefore been designed in accordance with stormwater management requirements for Small Projects as defined in Section 300.6.A.8. The project's Stormwater Management Plan is attached in the back section of this application report.

Section 300.7 Construction of Shoreline Protection Facilities

The activity along the waterfront consists of the installation of a commercial/industrial shoreline protection structure and improvement dredging to create deep-water access and berthing. All structural components are proposed to be located landward of the mean high water line. As the existing shoreline is currently well stabilized with a proper slope and riprap, the purpose of the proposed bulkhead is not to control erosion. As stated earlier, the purpose of the project is to retain upland material in order to create a deepwater berthing location directly along the property's shoreline.

An analysis of the applicable Standards as outlined under Section 300.7.F follows below.

1. All applicable standards for earthwork have been outlined in the attached Soil Management Plan. The base of the proposed bulkhead has been located immediately landward of mean high water line and away from coastal wetlands.

2. As there are no adjacent structures, the ends of the proposed bulkhead have been shown to gradually return to the slope of the upland. These proposed bulkhead returns will minimize opportunities for erosion around the back of the primary bulkhead face.

3. The proposed sheetpiles will be vibrated into place, through consolidated sediments, to an approximate base depth of -50.5' M.L.W.

4. To promote good drainage behind seawalls and bulkheads, to minimize the flow of sediment into the adjacent waterway, and to avoid loss of backfill, all proposed backfill material will contain less than 10% silt. In addition, a filtering layer of 1 ½" crushed stone and geotextile fabric will be installed directly landward of the bulkhead. Finally, to maximize post

construction drainage, weep holes will be installed along the waterward face of the bulkhead.

5. The area landward of the bulkhead will be level for a distance equivalent to the height of the structure (approximately 15').

6. No revetments are proposed as part of this application.

7. No revetments are proposed as part of this application.

8. The proposed bulkhead has been designed and stamped by a registered professional engineer (see Application Drawings).

9. No concrete is proposed as part of the primary bulkhead construction.

10. The proposed bulkhead has been intentionally located landward of the mean high water line. The method of the installation is by vibratory hammer. All associated excavation activities will be temporary, minimized to the greatest extent possible, and conducted in stages. As a result, it is evident that the construction activities will minimize disturbance of shoreline sediments thereby avoiding adverse impact to water quality.

In addition to the bulkhead portion of the project, a small area of riprap will be consolidated. An analysis of the Maintenance and Repair as outlined under Section 300.7.G follows below.

1. The riprap consolidation will not result in the seaward expansion of structural shoreline protection facilities.

2. The riprap consolidation has been minimized to the greatest extent possible. No new stone material is proposed for this activity.

3. The riprap consolidation has been minimized to the greatest extent possible so as to minimize adverse impacts to water quality.

4. All applicable standards for Section 300.2 shall be met, as noted above.

5. The proposed project has been designed and stamped by a registered professional engineer (see Application Drawings).

Section 300.8 Energy-Related Activities and Structures

The activity along the waterfront consists of the installation of a commercial/industrial shoreline protection structure and improvement dredging to create deep-water access and berthing. All structural components, save the three tie-off piles, will be located landward of the mean high water line. The proposed bulkhead and tie-off piles, in conjunction with the dredging, will allow derelict vessels to temporarily berth in a perpendicular fashion directly along the property's shoreline. The redeveloped waterfront will serve to

facilitate the dismantling of derelict vessels. The scrap metal produced from dismantling will then be transferred to the upland and transported off-site to an appropriate upland recycling facility. As such, the proposed project does not involve an energy-related activity and/or structure.

Section 300.9 Dredging and Dredged Materials Disposal

The activity along the waterfront consists of the installation of a commercial/industrial shoreline protection structure and improvement dredging to create deep-water access and berthing. The dredging portion of the project has been specifically designed to conform to the Standards as outlined in Section 300.9, as outlined below:

1. ***For Dredging:***

   a. The proposed dredging plan has been designed with inadvertent side slopes to maximize tidal flushing.

   b. Bottom slopes at the edges of dredged areas will have a slope of 33 percent.

   c. The project has been designed to avoid impacts to the proposed bulkhead. There are no other adjacent shoreline protection structures in the vicinity of the proposed dredge footprint.

   d. No shellfish dredged from the project will be used for human consumption or bait.

   e. The proposed project will not occur at a marina facility and therefore this section does not apply.

2. ***For Dredged Materials Disposal in Open Water***

   a. It is anticipated that the dredge spoils will be disposed of at the Confined Aquatic Disposal (CAD) cells located in the upper reaches of the Providence River. Therefore, the material will not be disposed of in an area determined by the CRMC to be prime fishing grounds.

   b. The dredge will come to a stop at the specific CAD cell disposal coordinates identified by the regulatory agencies. Material will be point dumped at this location.

   c. It is anticipated that the dredge spoils will be disposed of at the Confined Aquatic Disposal (CAD) cells located in the upper reaches of the Providence River. As such, the hydrographic conditions at the site will be such that the disposed dredged materials will remain within the disposal area and re-suspension of bottom sediments will be minimal.

   d. If a regulatory review of lab data determines that the material is contaminated, a Cap Plan will be prepared at that time.

c. It is anticipated that the dredge spoils will be disposed of at the Confined Aquatic Disposal (CAD) cells located in the upper reaches of the Providence River. As such, monitoring of the disposal site is not required.

3. It is anticipated that the dredge spoils will be disposed of at the Confined Aquatic Disposal (CAD) cells located in the upper reaches of the Providence River, and will not involve the creation of wetlands, aquatic habitat, or islands. As such, this section does not apply to this project.

4. It is anticipated that the dredge spoils will be disposed of at the Confined Aquatic Disposal (CAD) cells located in the upper reaches of the Providence River, and will not include any upland disposal. As such, this section does not apply to this project.

5. It is anticipated that the dredge spoils will be disposed of at the Confined Aquatic Disposal (CAD) cells located in the upper reaches of the Providence River and will not involve beach nourishment. As such, this section does not apply to this project.

Section 300.10 Filling in Tidal Waters

The activity along the waterfront consists of the installation of a commercial/industrial shoreline protection structure and improvement dredging to create deep-water access and berthing. All structural components will be located landward of the mean high water line. Therefore, the proposed project does not involve the filling in of tidal waters.

Section 300.11 Aquaculture

The activity along the waterfront consists of the installation of a commercial/industrial shoreline protection structure and improvement dredging to create deep-water access and berthing. All structural components, save the three tie-off piles, will be located landward of the mean high water line. The proposed bulkhead and tie-off piles, in conjunction with the dredging, will allow derelict vessels to temporarily berth in a perpendicular fashion directly along the property's shoreline. The redeveloped waterfront will serve to facilitate the dismantling of derelict vessels. The scrap metal produced from dismantling will then be transferred to the upland and transported off-site to an appropriate upland recycling facility. As such, the proposed project does not involve structures or activities that are part of a marine aquaculture operation.

Section 300.12 Coastal Wetland Mitigation

The activity along the waterfront consists of the installation of a commercial/industrial shoreline protection structure and improvement dredging to create deep-water access and berthing. All structural components, save the tie-off piles, will be located landward of the mean high water line. Coastline Consulting & Development, LLC conducted a site evaluation in order to determine the presence of tidal wetland vegetation in the proximity of the proposed project. According to this review, the shoreline at the project site is stabilized with riprap stabilization and therefore has no tidal vegetation in the immediate project footprint.

However, tidal vegetation is located in close proximity to the project area. The banks of Thurbers Avenue Creek are lined with the vegetative species *Spartina alterniflora* and there are isolated patches of these wetlands along the southerly portion of the property. During the initial planning stages, Coastline Consulting & Development, LLC carefully evaluated the potential impacts to these tidal wetlands. Based upon our review, it is our opinion that there will be no adverse impact on coastal wetlands due to the following site characteristics and design measures:

1. The tidal wetlands in the area were located and are identified on the attached Existing Conditions Drawing.

2. The bulkhead and dredging has been specifically designed in an area absent of coastal wetlands.

3. The construction activities will not adversely impact the coastal wetlands as all staging and construction areas are located landward of the mean high water line and therefore outside the growing range of coastal plant species.

Section 300.13 Public Roadways, Bridges, Parking Lots, Railroad Lines & Airports
The activity along the waterfront consists of the installation of a commercial/industrial shoreline protection structure and improvement dredging to create deep-water access and berthing. All structural components, save the three tie-off piles, will be located landward of the mean high water line. The proposed bulkhead and tie-off piles, in conjunction with the dredging, will allow derelict vessels to temporarily berth in a perpendicular fashion directly along the property's shoreline. The redeveloped waterfront will serve to facilitate the dismantling of derelict vessels. The scrap metal produced from dismantling will then be transferred to the upland and transported off-site to an appropriate upland recycling facility. As such, the proposed project does not involve the construction of any new roadways, highways, bridges, parking lots, railroads lines, and airports.

Section 300.14 Maintenance of Structures
The activity along the waterfront consists of the installation of a commercial/industrial shoreline protection structure and improvement dredging to create deep-water access and berthing. The majority of existing waterside structures are derelict and are proposed for removal. As noted above in Section 300.7, a small area of riprap is being retained and reconsolidated – no new stone material is proposed.

Section 300.15 Municipal Harbor Regulations
The applicant of the proposed project is a private organization. As such, the proposed project does not involve the exercising of rules, regulations, programs or management functions by a municipality.

Section 300.16 Boat Lift and Float Lift Systems
The activity along the waterfront consists of the installation of a commercial/industrial shoreline protection structure and improvement dredging to create deep-water access and berthing. As such, the proposed project does not involve the installation of a boat/float lift system.

Section 300.17 Wetland Walkover Structures
The activity along the waterfront consists of the installation of a commercial/industrial shoreline protection structure and improvement dredging to create deep-water access and berthing. All structural components, save the tie-off piles, will be located landward of the mean high water line. An assessment of the project site revealed that there are no coastal wetlands along the immediate area of the proposed activities. As such, the proposed project does not involve the installation of a wetland walkover structure.

Section 300.18 SAV & Aquatic Habitats of Particular Concern
The activity along the waterfront consists of the installation of a commercial/industrial shoreline protection structure and improvement dredging to create deep-water access and berthing in Type 6 waters. All structural components, save the tie-off piles, will be located landward of the mean high water line. An August 2009 site assessment and waterside survey of the project site revealed that there are apparently no communities of SAV in the surrounding waters. As such, the proposed project will completely avoid adverse impacts to SAV.

Coastline Consulting & Development, LLC

Waterfront Planning, Permitting, and Development

NEW BULKHEAD & IMPROVEMENT DREDGING PROJECT

434 & 444 Allens Avenue, Providence, Rhode Island

PROPERTY OWNER
ACR REALTY, LLC

CONTRACT PURCHASER & PROPERTY DEVELOPER
RHODE ISLAND RECYCLED METALS

COASTAL RESOURCES MANAGEMENT COUNCIL
ASSENT APPLICATION

February 10, 2010

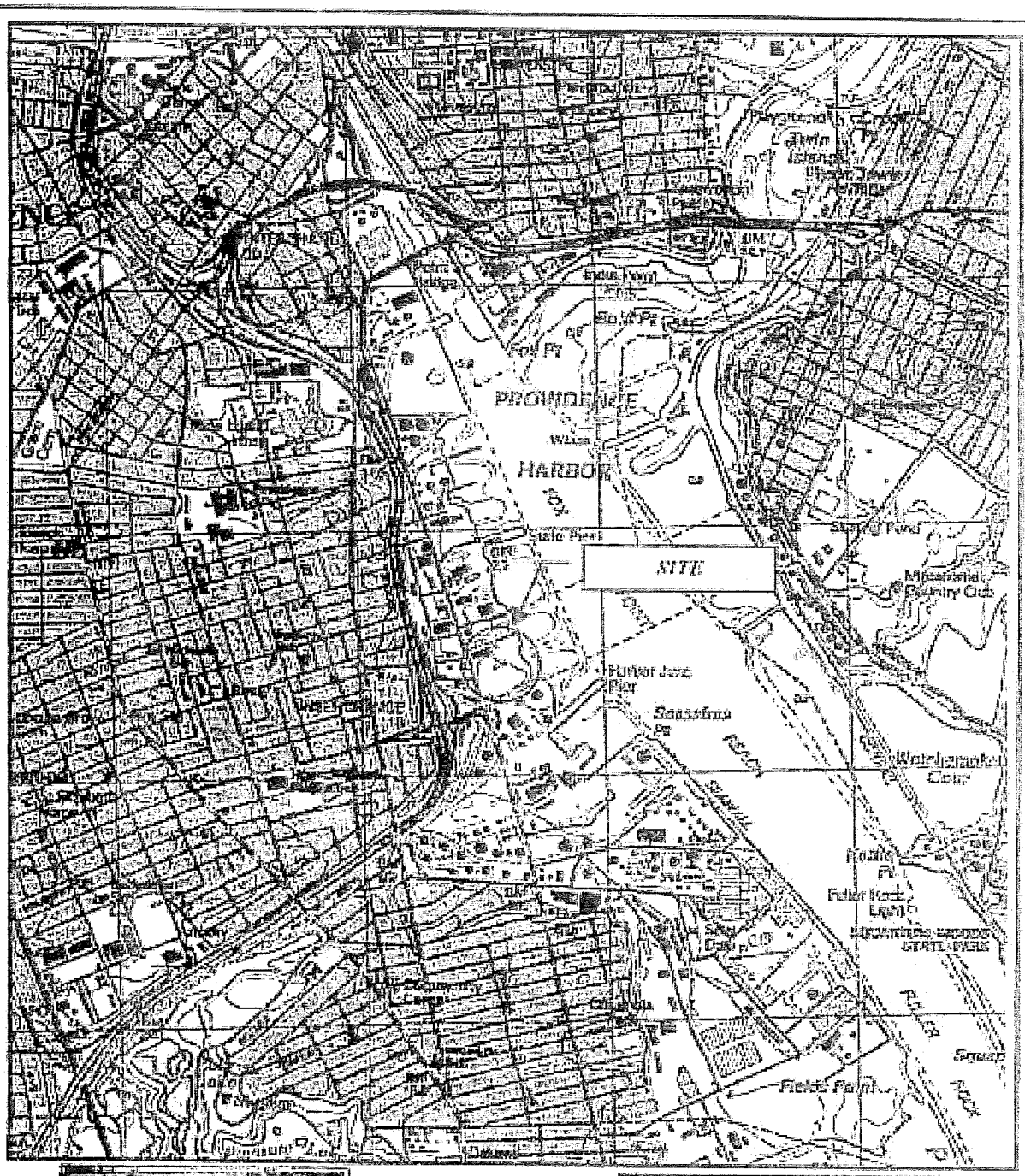
Prepared For:
Eddie Scinto
RI Recycled Metals
P.O. Box 75265
Providence, RI 02907

Prepared By:
Coastline Consulting & Development, LLC
5-B Old Post Road
Madison, CT 06443

Stonington, CT
(860) 535-9393

5-B Old Post Road, Madison, CT 06443
Phone: (203) 245-8138 Fax: (203) 245-4214
www.coastlineconsulting-ct.com

Greenwich, CT
(203) 861-1990



NICOLANGELO CUOCO

No. 0037

REGISTERED
PROFESSIONAL ENGINEER

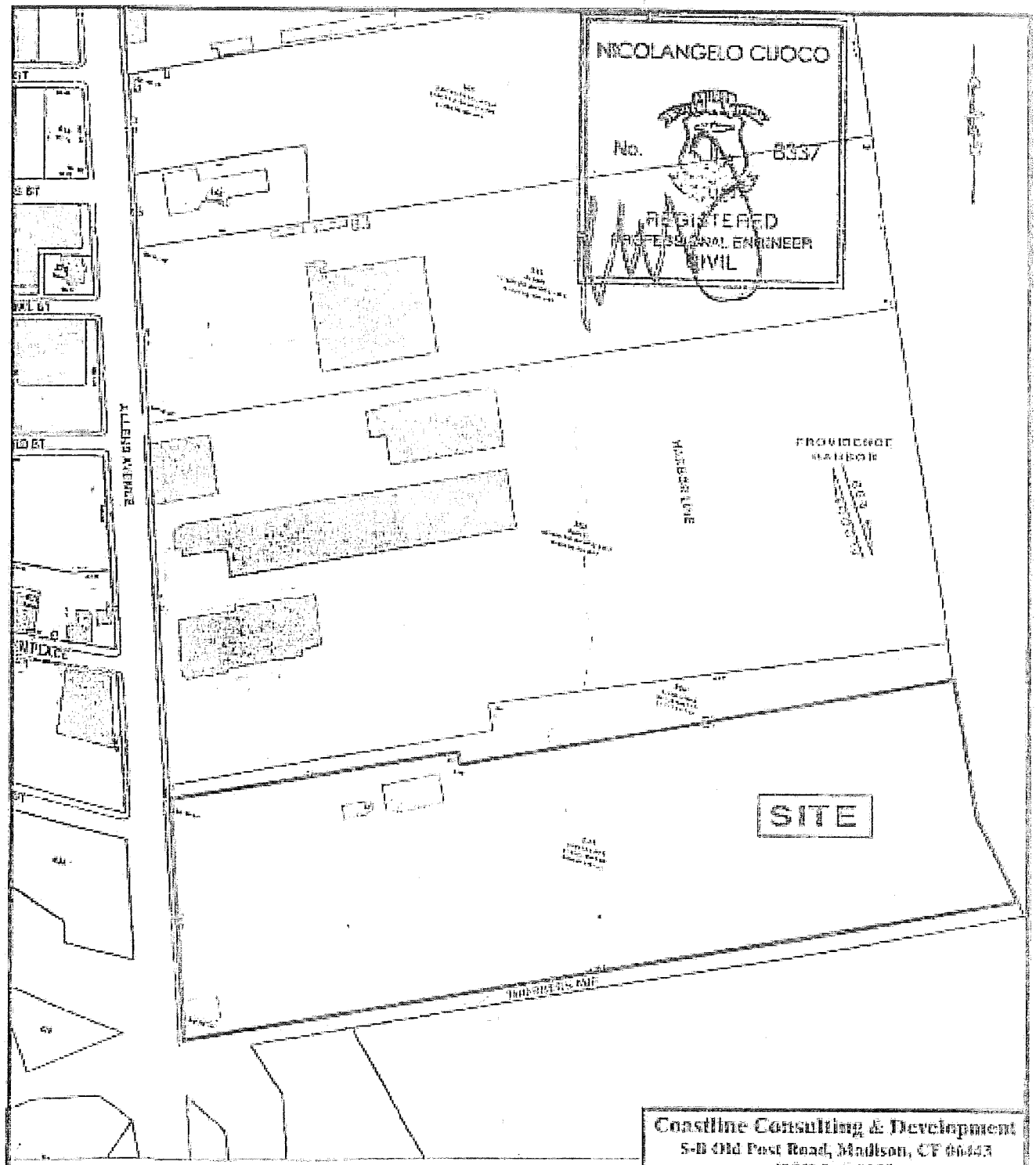
NOTE: MAP TAKEN FROM 7.5 MINUTE USGS TOPOGRAPHIC MAPS OF THE PROVIDENCE, RHODE ISLAND QUADRANGLE, 1969 (PHOTOINSPECTED 1976, PHOTOREVISED 1984)

Coastline Consulting & Development
5-B Old Post Road, Madison CT 06443
(203) 245-6138

FIGURE 1 OF 14
SITE LOCATION MAP

ACR REALTY, LLC
RHODE ISLAND RECYCLED METALS
434 & 444 ALLENS AVE
PROVIDENCE, RHODE ISLAND

FEBRUARY 10, 2010 | SCALE: 1" = 12,000'

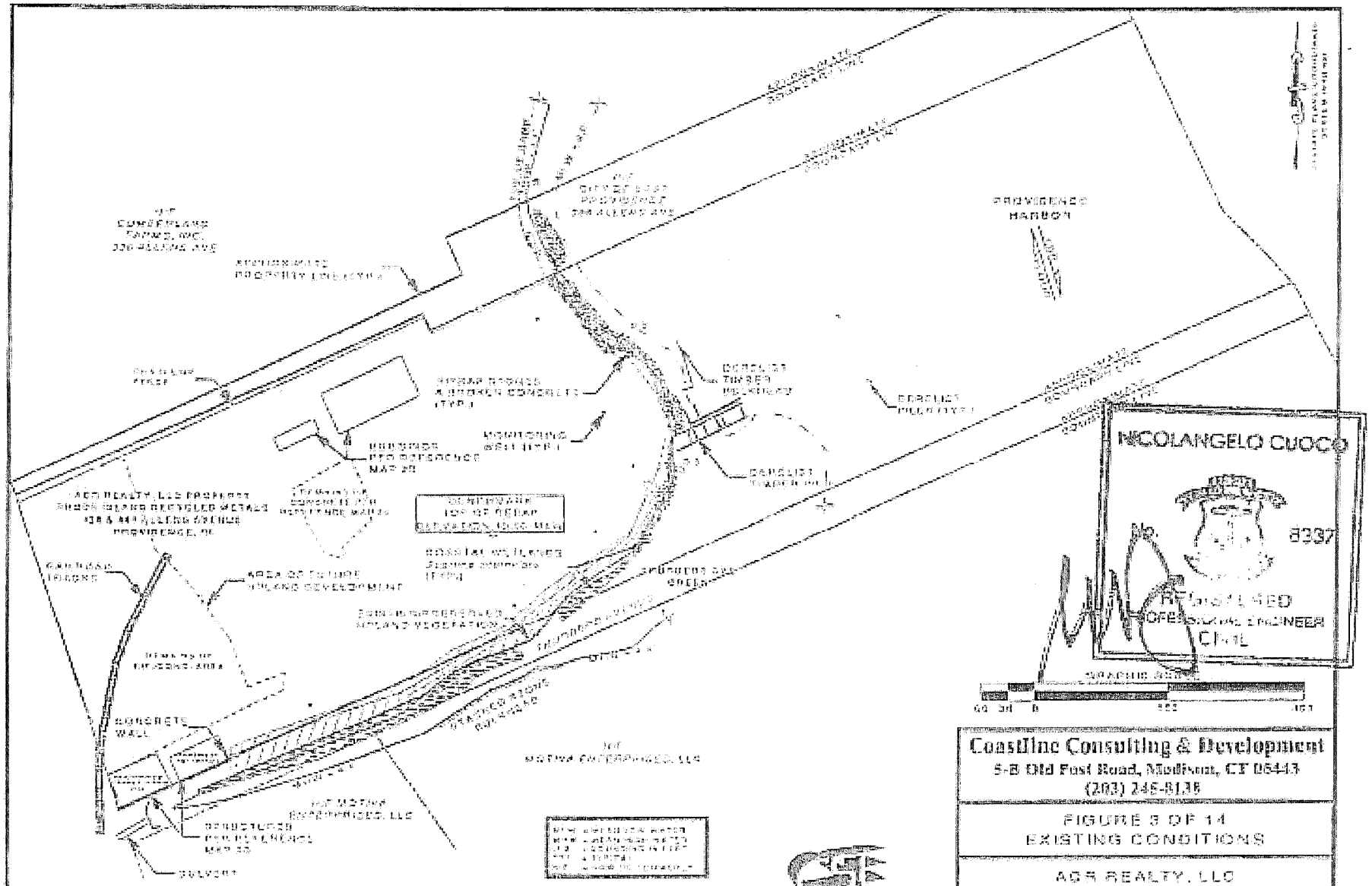


Coastline Consulting & Development
5-B Old Post Road, Madison, CT 06443
(203) 245-8138

FIGURE 2 OF 14
SITE PLAN VIEW

AGR REALTY, LLC
RHODE ISLAND RECYCLED METALS
434 & 444 ALLENS AVENUE
PROVIDENCE, RHODE ISLAND

FEBRUARY 15, 2010 | SCALE: 1" = 200'

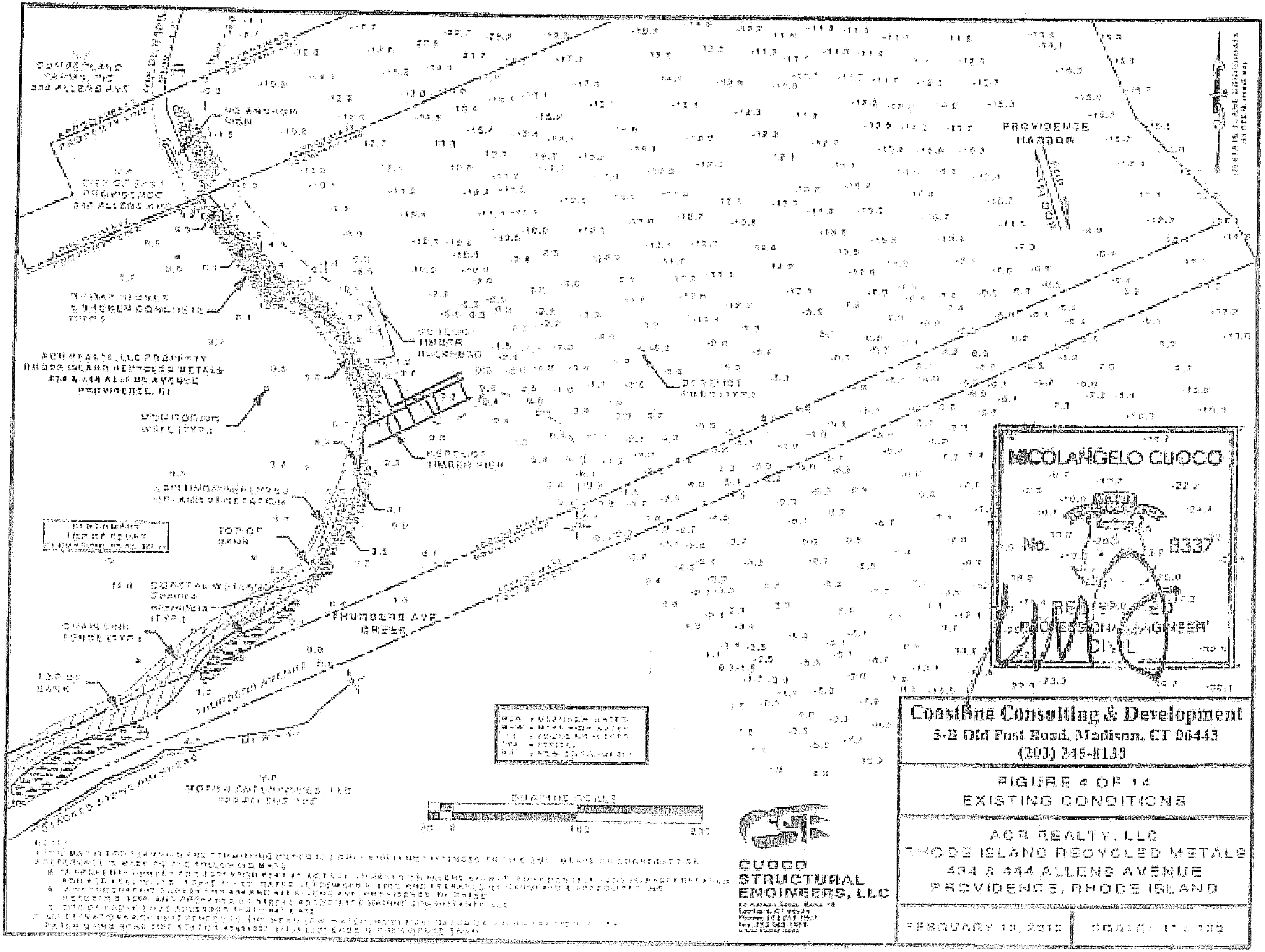


Coastline Consulting & Development
5-B Old Post Road, Madison, CT 06443
(203) 245-8136

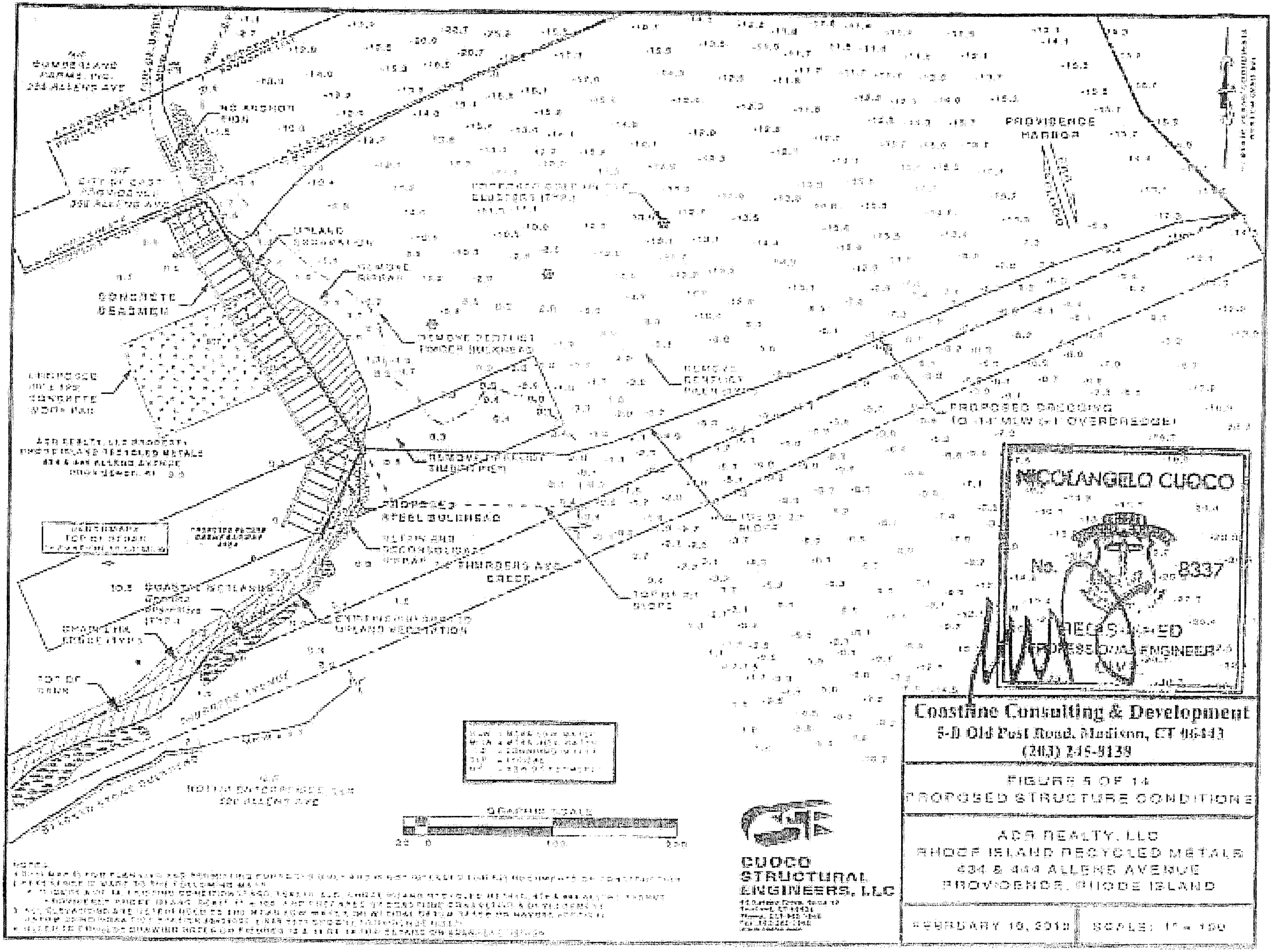
FIGURE 5 OF 14
EXISTING CONDITIONS

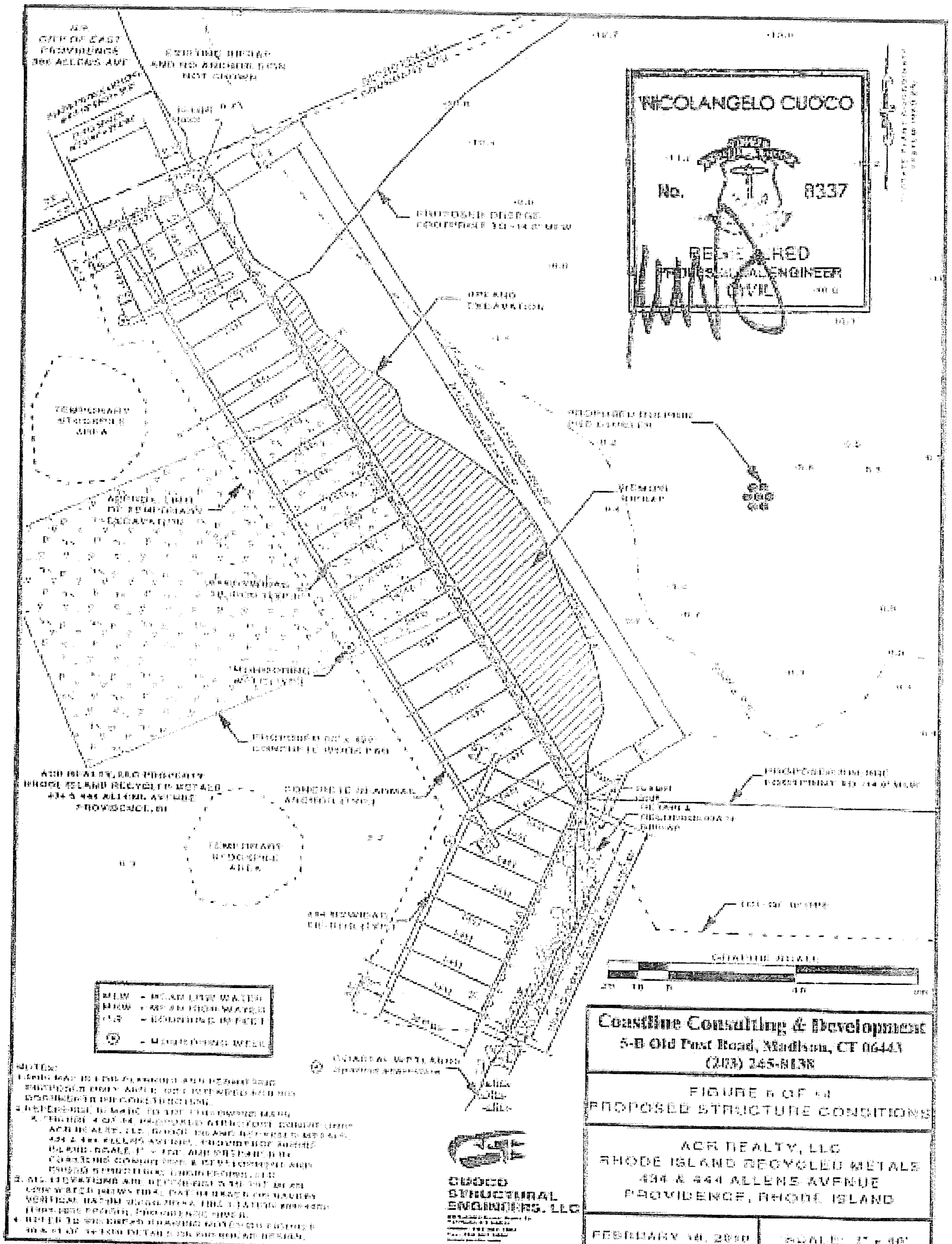
ADR REALTY, LLC
RHODE ISLAND RECYCLED METALS
834 & 444 ALLENS AVENUE
PROVIDENCE, RHODE ISLAND

FEBRUARY 16, 2018 | SCALE: 1" = 150'



PROVIDENCE HARBOR
NICOLANGELO CUOCO
No. 8337
REGISTERED PROFESSIONAL ENGINEER
CIVIL
THURBERS AVE
THURBERS AVENUE
TOP OF BANK
CHAIN LINK FENCE (TYP.)
COASTAL WETLAND
DERELICT TIMBER PIER
MONITORING WELL (TYP.)
GRAPHIC SCALE
Coastline Consulting & Development
5-B Old Post Road, Madison, CT 06443
(203) 245-8139
FIGURE 4 OF 14
EXISTING CONDITIONS
ACR REALTY, LLC
RHODE ISLAND RECYCLED METALS
434 & 444 ALLENS AVENUE
PROVIDENCE, RHODE ISLAND
FEBRUARY 10, 2010
SCALE: 1" = 100'
CUOCO STRUCTURAL ENGINEERS, LLC


PROVIDENCE HARBOR
CONCRETE DEADMEN
PROPOSED STEEL BULKHEAD
UPLAND
ADS REALTY, LLC PROPERTY
Coastline Consulting & Development
5-D Old Post Road, Madison, CT 06443
(203) 245-9139
FIGURE 5 OF 14
PROPOSED STRUCTURE CONDITIONS
ADS REALTY, LLC
RHODE ISLAND RECYCLED METALS
434 & 444 ALLENS AVENUE
PROVIDENCE, RHODE ISLAND
FEBRUARY 10, 2010
SCALE: 1" = 100'
CUOCO STRUCTURAL ENGINEERS, LLC
MICHANGELO CUOCO
No. 8337
LICENSED
PROFESSIONAL ENGINEER

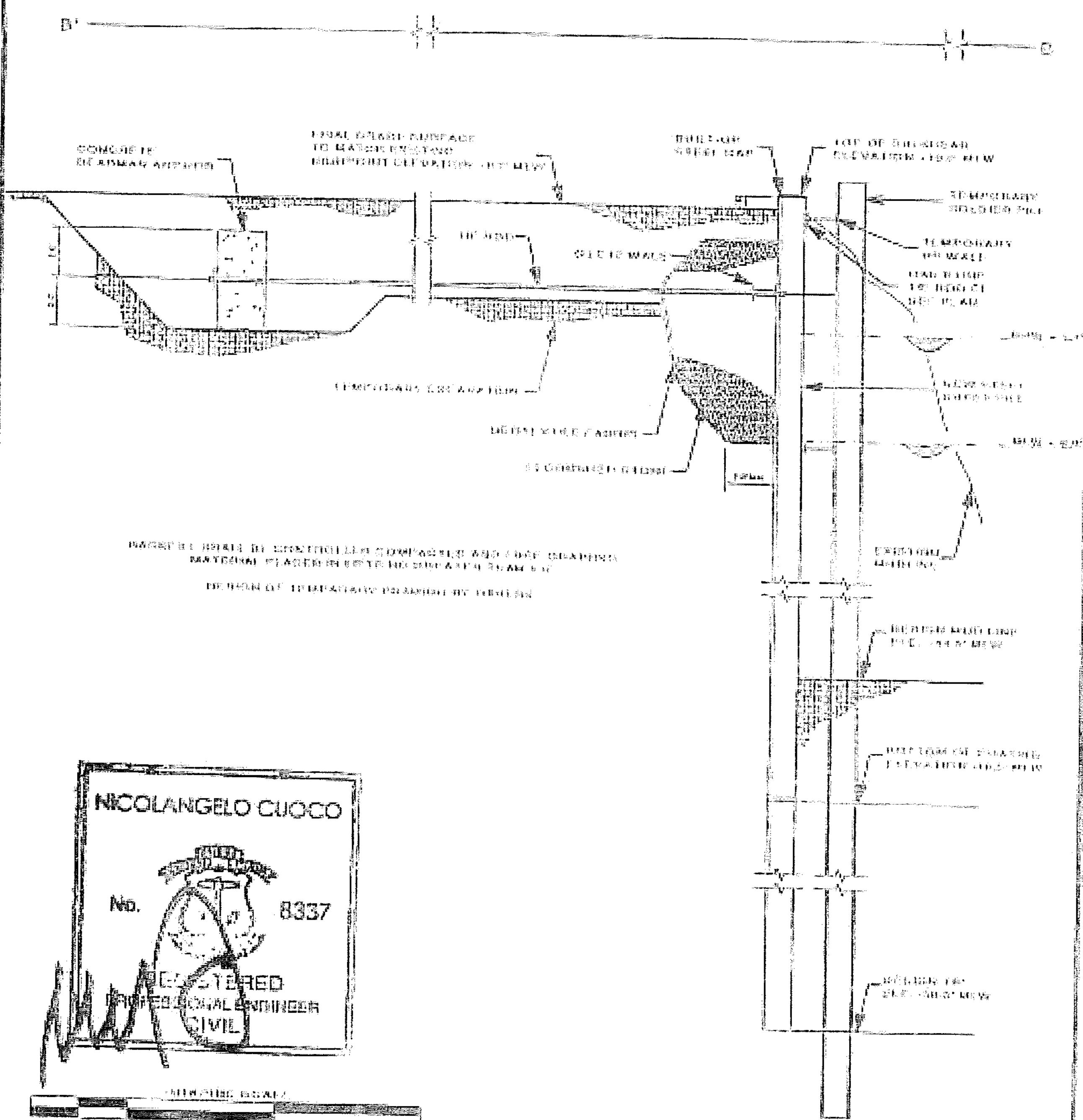


Coastline Consulting & Development
5-B Old Post Road, Madison, CT 06443
(203) 245-8138

FIGURE 6 OF 14
PROPOSED STRUCTURE CONDITIONS

ACR REALTY, LLC
RHODE ISLAND RECYCLED METALS
434 & 444 ALLENS AVENUE
PROVIDENCE, RHODE ISLAND

FEBRUARY [illegible]	SCALE: 1" = 40'



NOTES:

1. THIS APPLICATION DRAWING IS FOR PLANNING AND PERMITTING PURPOSES ONLY AND IS NOT INTENDED FOR [illegible] CONSTRUCTION
2. REFERENCE IS MADE TO THE FOLLOWING MAPS [illegible] AGR REALTY, LLC, RHODE ISLAND RECYCLED METALS, 434 & 444 ALLENS AVENUE, PROVIDENCE RHODE ISLAND, SCALE 1" = 40', AND PREPARED BY COASTLINE CONSULTING & DEVELOPMENT AND CUOCO STRUCTURAL ENGINEERING, LLC
3. ALL ELEVATIONS ARE REFERENCED TO THE MEAN LOW WATER [illegible]
4. REFER TO [illegible]

CUOCO STRUCTURAL ENGINEERS, LLC

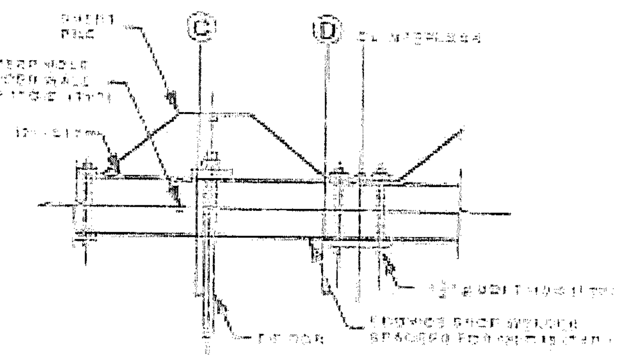
Coastline Consulting & Development
5-B Old Post Road, Madison, CT 06443
(203) 245-8138

FIGURE 7 OF 14
PROPOSED BULKHEAD
CROSS-SECTION DETAIL 1

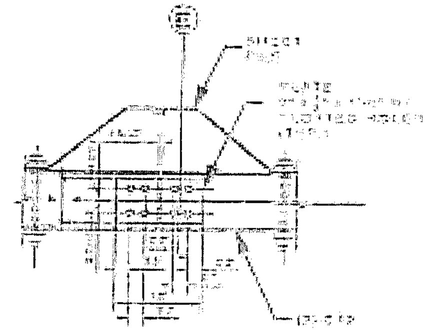
AGR REALTY, LLC
RHODE ISLAND RECYCLED METALS
434 & 444 ALLENS AVENUE
PROVIDENCE, RHODE ISLAND

FEBRUARY 10, 2010 | SCALE [illegible]

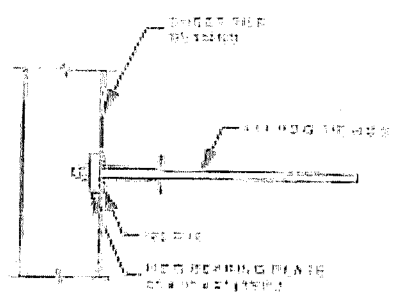
WALE CONNECTION DETAIL



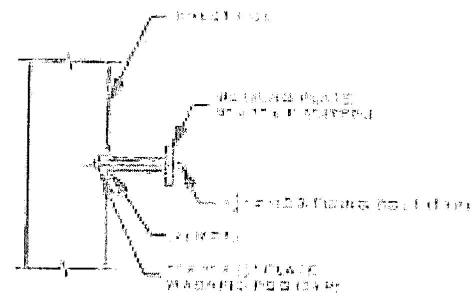
WALE SPLICE DETAIL



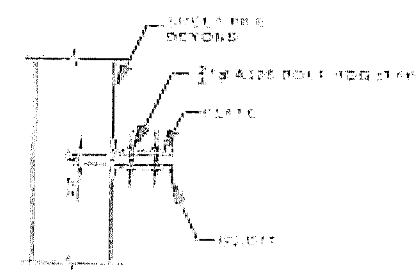
NICOLANGELO CUOCO
No. 8337
REGISTERED PROFESSIONAL ENGINEER
CIVIL



SECTION C



SECTION D



SECTION E

1. HOLES FOR SHEET PILE SHALL BE FIELD DRILLED
2. COAT DRILLED SURFACE PRIOR TO BOLT INSTALLATION

NOTES:

1. THIS APPLICATION DRAWING IS FOR PLANNING AND PERMITTING PURPOSES ONLY AND IS NOT INTENDED FOR BID DOCUMENTS OR CONSTRUCTION.
2. REFERENCE IS MADE TO THE FOLLOWING MAPS: [illegible] FIGURE 8 OF 14, PROPOSED STRUCTURAL [illegible] ACR REALTY, LLC, RHODE ISLAND RECYCLED METALS, 434 & 444 ALLENS AVENUE, PROVIDENCE, RHODE ISLAND [illegible] COASTLINE CONSULTING & DEVELOPMENT AND CUOCO STRUCTURAL ENGINEERING LLC.
3. ALL ELEVATIONS ARE REFERENCED TO THE MEAN LOW WATER [illegible]
4. REFER TO [illegible]

CUOCO STRUCTURAL ENGINEERS, LLC

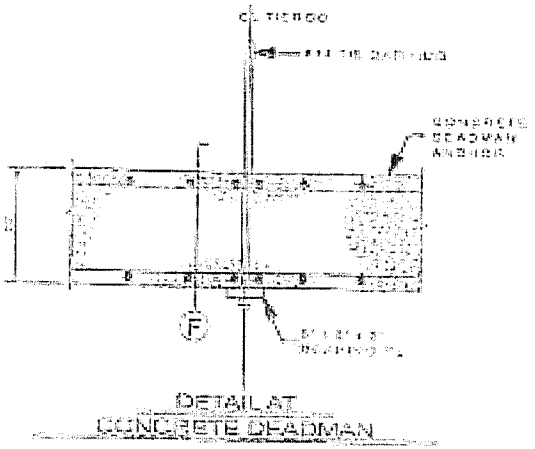
GRAPHIC SCALE

Coastline Consulting & Development
5-B Old Post Road, Madison, CT 06443
(203) 245-6138

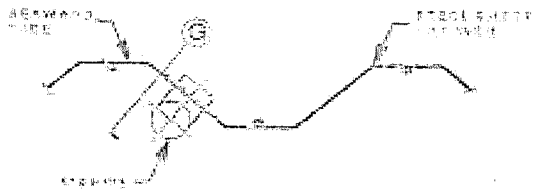
FIGURE 8 OF 14
PROPOSED BULKHEAD
CROSS-SECTION DETAIL 2

ACR REALTY, LLC
RHODE ISLAND RECYCLED METALS
434 & 444 ALLENS AVENUE
PROVIDENCE, RHODE ISLAND

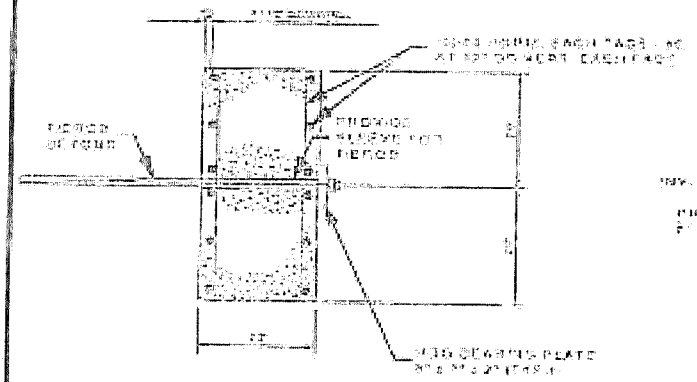
FEBRUARY 10, 2010 | SCALE: 1" = 3'



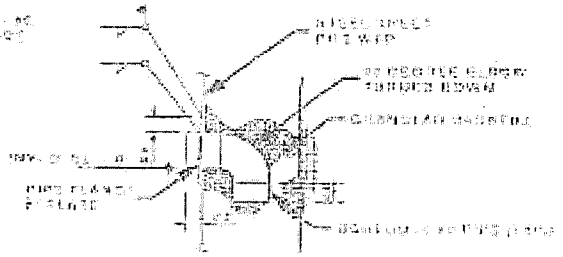
DETAIL AT CONCRETE DEADMAN



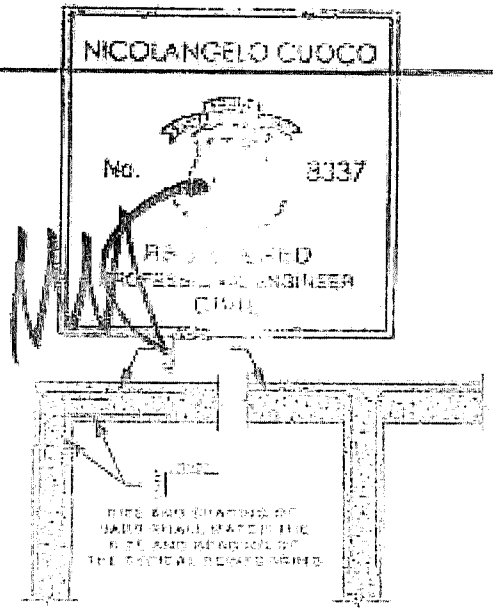
PLAN AT WEEPHOLE



SECTION F



SECTION G



CONCRETE REINFORCING DETAIL

GRAPHIC SCALE

0 1 2 3 4

Coastline Consulting & Development
5-B Old Post Road, Madison, CT 06443
(203) 245-8136

FIGURE 9 OF 14
PROPOSED BULKHEAD
CROSS-SECTION DETAIL 3

ACR REALTY, LLC
RHODE ISLAND RECYCLED METALS
434 & 444 ALLENS AVENUE
PROVIDENCE, RHODE ISLAND

FEBRUARY 18, 2016 | SCALE: 1" = 5'

CUOCO STRUCTURAL ENGINEERS, LLC

BULKHEAD DRAWING NOTES

GENERAL NOTES:

1. THE COMPLETED STRUCTURE HAS BEEN DESIGNED TO WITHSTAND THE FOLLOWING DESIGN LIVE LOADS APPLIED IN CONJUNCTION WITH DESIGN DREDGE/MUDLINE ELEVATIONS INDICATED ON THE CONTRACT DRAWINGS.
2. ALL WORK SHALL BE IN ACCORDANCE WITH THE RHODE ISLAND STATE BUILDING CODE, NINTH EDITION WITH AN EFFECTIVE DATE OF AUGUST 1, 2007.
3. LIVE LOADS: 250 PSF UNIFORM LOAD
   5,000 LB CONCENTRATED LOAD
4. SITE INFORMATION TAKEN FROM "PROPERTY SURVEY FOR ASSESSOR PLAT 47, LOT 601" PREPARED BY GAROFALO & ASSOCIATES, INC. DATED SEPTEMBER 9, 2009.
5. SUBSURFACE SOIL INFORMATION TAKEN FROM SOIL TEST BORING LOGS PREPARED BY NEW ENGLAND BORING CONTRACTORS OF CT, INC., GLASTONBURY, CT.
6. ELEVATIONS REFERENCE LOCAL MEAN LOW WATER, UNLESS NOTED OTHERWISE.
7. THE PARCEL IS LOCATED IN FEMA FLOOD ZONES VE (EL 18) AND AE (EL 16) BASED ON FLOOD INSURANCE RATE MAP FOR THE CITY OF PROVIDENCE, RHODE ISLAND, PROVIDENCE COUNTY, COMMUNITY PANEL NUMBER 44007C0317 G, MAP NUMBER 44007C0317G WITH AN EFFECTIVE DATE OF MARCH 2, 2010.
8. ALL DETAILS SHALL BE CONSIDERED TYPICAL AND SHALL APPLY AT SAME AND SIMILAR CONDITIONS.
9. PILES SHALL BE DRIVEN STRAIGHT AND TRUE AT INDICATED LOCATIONS, WITH DEVIATION FROM THE LONGITUDINAL AXIS OF NOT MORE THAN 1/4 INCH PER FOOT. LOCATE THE PILES WITHIN 3 INCHES OF THE POSITIONS INDICATED ON THE DRAWINGS.
10. DO NOT DETERMINE ACCURATE DIMENSIONS, DO NOT SCALE DRAWINGS. DIMENSIONS SHALL BE READ OR CALCULATED.
11. THE CONTRACTOR SHALL VERIFY THE LOCATION OF ALL UNDERGROUND UTILITY LINES, SEWERS, AND FUEL STORAGE TANKS TO AVOID ANY DAMAGE TO THESE. CONTRACTOR SHALL CONTACT "CALL BEFORE YOU DIG" PRIOR TO ANY EXCAVATION.

SELECTIVE DEMOLITION AND DISPOSAL:

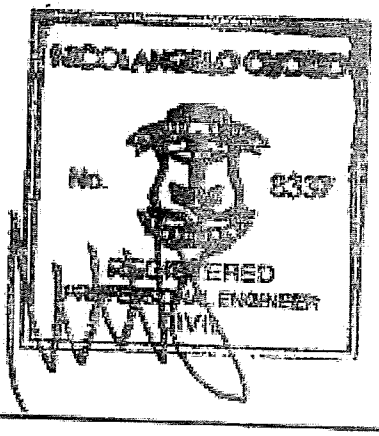
1. SELECTIVE DEMOLITION AND DISPOSAL SHALL BE PERFORMED IN ACCORDANCE WITH FEDERAL, STATE, AND LOCAL PERMIT AND BUILDING CODE REQUIREMENTS.
2. THE CONTRACTOR SHALL REMOVE AND DISPOSE THOSE STRUCTURES AND DERELICT COMPONENTS REQUIRED TO PERFORM THE WORK. THIS WORK INCLUDES BUT IS NOT LIMITED TO THE EXISTING BULKHEAD, PIER, AND PILES.
3. SELECTIVE DEMOLITION INCLUDES BUT IS NOT LIMITED TO REMOVAL OF EXISTING MATERIALS, UTILITIES, AND OTHER COMPONENTS ESSENTIAL FOR A COMPLETE PROJECT.
4. THE CONTRACTOR SHALL TAKE REASONABLE CARE IN REMOVING ELEMENTS SUBJECTED TO BE DEMOLISHED.
5. PRIOR TO COMMENCEMENT OF DEMOLITION, THE CONTRACTOR SHALL CLEARLY MARK THE LIMITS OF THE DEMOLITION.
6. COMPLETELY REMOVE ITEMS DESIGNATED LEAVING SURFACES CLEAN, SOUND, AND READY TO RECEIVE NEW MATERIALS.
7. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR THE STABILITY OF THE STRUCTURE DURING THE COURSE OF DEMOLITION.

EROSION AND SEDIMENTATION CONTROLS:

1. EROSION AND SEDIMENTATION CONTROLS SHALL BE INSTALLED AND MAINTAINED AS PER REGULATORY AUTHORIZATIONS.
2. DURING EXECUTION OF THE WORK, THE CONTRACTOR IS REQUIRED TO INSTALL AND MAINTAIN REQUIRED SEDIMENTATION AND EROSION CONTROL MEASURES TO PROTECT ADJACENT WATERWAYS, STREETS, AND PROPERTIES. MEASURES INCLUDE BUT ARE NOT LIMITED TO TEMPORARY DEBRIS, HAY BALES, SILT FENCES, CONTAINMENT BOOMS, AND TURBIDITY CURTAINS.
3. EROSION AND SEDIMENTATION CONTROL DEVICES AND PROVISIONS SHALL BE MAINTAINED IN OPERATIONAL CONDITION BY THE CONTRACTOR AND SHALL BE REMOVED AND LEGALLY DISPOSED AT THE COMPLETION OF THE PROJECT.

PILE DRIVING:

1. DRIVE THE PILES STRAIGHT AND TRUE AT INDICATED LOCATIONS, WITH DEVIATION FROM THE LONGITUDINAL AXIS OF NOT MORE THAN 1/4 INCH PER FOOT.
2. LOCATE THE PILES WITHIN 3 INCHES OF THE POSITIONS INDICATED ON THE DRAWINGS.
3. CONTINUOUSLY DRIVE EACH PILE TO REACH THE CAPACITY AND/OR FULL EMBEDMENT LENGTH CALLED FOR ON THE DRAWINGS.
4. WITHDRAW PILES THAT ENCOUNTER UNDERGROUND OBSTRUCTIONS SUFFICIENT TO IMPEDE PILE DRIVING. REDRIVE AS CLOSE AS POSSIBLE TO ORIGINAL POSITION, SUBJECT TO REVIEW OF THE OWNER. REMOVE PILES WHICH SPLIT, BROOM, SHEAR, OR DRIVE OUT OF LINE. DRIVE ANOTHER PILE IN ITS PLACE. PROVIDE AND MAINTAIN NECESSARY LIGHTING AND BARRIERS TO ADEQUATELY ASSURE PUBLIC SAFETY. PROVIDE ADEQUATE SAFEGUARDS TO PROTECT FROM DAMAGE IMPROVEMENTS ON THE WORK SITE AND ON ADJACENT PROPERTIES.



CUOCO STRUCTURAL ENGINEERS, LLC

Coastline Consulting & Development
5-B Old Post Road, Madison CT 06443
(203) 245-8138

FIGURE 10 OF 14
BULKHEAD DRAWING NOTES 1 OF 2

ACR REALTY, LLC
RHODE ISLAND RECYCLED METALS
434 & 444 ALLENS AVENUE
PROVIDENCE, RHODE ISLAND

FEBRUARY 10, 2010	FILE NO.: 09-039

BULKHEAD DRAWING NOTES CONTINUED

STRUCTURAL STEEL:

1. THE DESIGN COMPLIES WITH THE AISC, "MANUAL OF STEEL CONSTRUCTION - ALLOWABLE STRESS DESIGN", NINTH EDITION.
2. STEEL WORK SHALL BE IN ACCORDANCE WITH AISC "SPECIFICATION FOR THE DESIGN, FABRICATION, AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS."
3. WELDING SHALL CONFORM TO THE "STRUCTURAL WELDING CODE - STEEL", AS ADOPTED BY THE AMERICAN WELDING SOCIETY (AWS D1.1). A WELDER CERTIFIED IN ACCORDANCE WITH AWS STANDARDS SHALL PERFORM WELDING.
4. WELDING ELECTRODES SHALL BE E70XX-X AND COMPLY WITH AWS A5.1 AND AWS A5.5.
5. STRUCTURAL STEEL WIDE-FLANGE SHAPES SHALL CONFORM TO ASTM A992 OR ASTM A572, GRADE 50. OTHER STRUCTURAL STEEL SHAPES AND MISCELLANEOUS STEEL SHALL CONFORM TO ASTM A36, UNLESS OTHERWISE NOTED. STEEL TUBES SHALL CONFORM TO ASTM A500, GRADE B. STEEL PIPES SHALL CONFORM TO ASTM A53, GRADE B OR ASTM A500, GRADE B. STEEL PLATES SHALL CONFORM TO ASTM A588 FY = 50 KSI.
6. STEEL SHEET PILE SHALL BE ARBED AZ19-700 ASTM A328 MATERIAL AND COATED WITH TWO COATS OF BAR-RUST 235 FOR A TOTAL DRY FILM THICKNESS OF 15 MILS. COATING SHALL BE APPLIED TO BOTH SIDE OF THE STEEL AND TO THE LIMITS AS SHOWN ON THE DRAWINGS.

STEEL HARDWARE PIPE:	ASTM A53 GRADE B, SCHEDULE 40
ANCHOR BOLTS:	ASTM F1554
CARRIAGE BOLTS:	ASTM A307
HIGH STRENGTH	
STRUCTURAL BOLTS:	ASTM A325, W/ HEXAGONAL HEADS
NUTS:	ASTM A563
WASHERS:	ASTM F436

7. STEEL HARDWARE LISTED ABOVE SHALL BE HOT DIPPED GALVANIZED.
8. TIE ROD ASSEMBLIES CONSISTING OF TIE ROD, STEEL COUPLERS, AND NUTS, SHALL BE DYWIDAG THREADBAR REINFORCING SYSTEM AS MANUFACTURED BY DYWIDAG SYSTEMS INTERNATIONAL, USA, INC. THREADBAR SHALL BE GRADE 75 CONFORMING TO ASTM A615 (EXCEPT FOR MARKINGS). TIE ROD ASSEMBLIES SHALL BE HOT DIPPED GALVANIZED.

CAST-IN-PLACE CONCRETE:

1. CONCRETE WORK SHALL CONFORM TO THE REQUIREMENTS OF ACI-318-LATEST EDITION "BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE" AS ADOPTED BY THE AMERICAN CONCRETE INSTITUTE.
2. DETAILING, FABRICATION, AND ERECTION OF REINFORCING STEEL SHALL CONFORM TO THE REQUIREMENTS OF ACI-318 AND ACI-315-LATEST EDITION "DETAILS AND DETAILING OF CONCRETE REINFORCEMENT".
3. CONCRETE SHALL BE NORMAL WEIGHT WITH A MINIMUM COMPRESSIVE STRENGTH OF 4000 PSI AT 28 DAYS. PORTLAND CEMENT SHALL BE TYPE II. CONCRETE SHALL CONTAIN 4% TO 6% ENTRAINED AIR AND HAVE A MAXIMUM WATER TO CEMENT RATIO OF 0.45.
4. REINFORCING STEEL SHALL CONFORM TO THE REQUIREMENTS OF ASTM A615 GRADE 60.

NICOLANGELO CUOCO
No. 8337
REGISTERED PROFESSIONAL ENGINEER

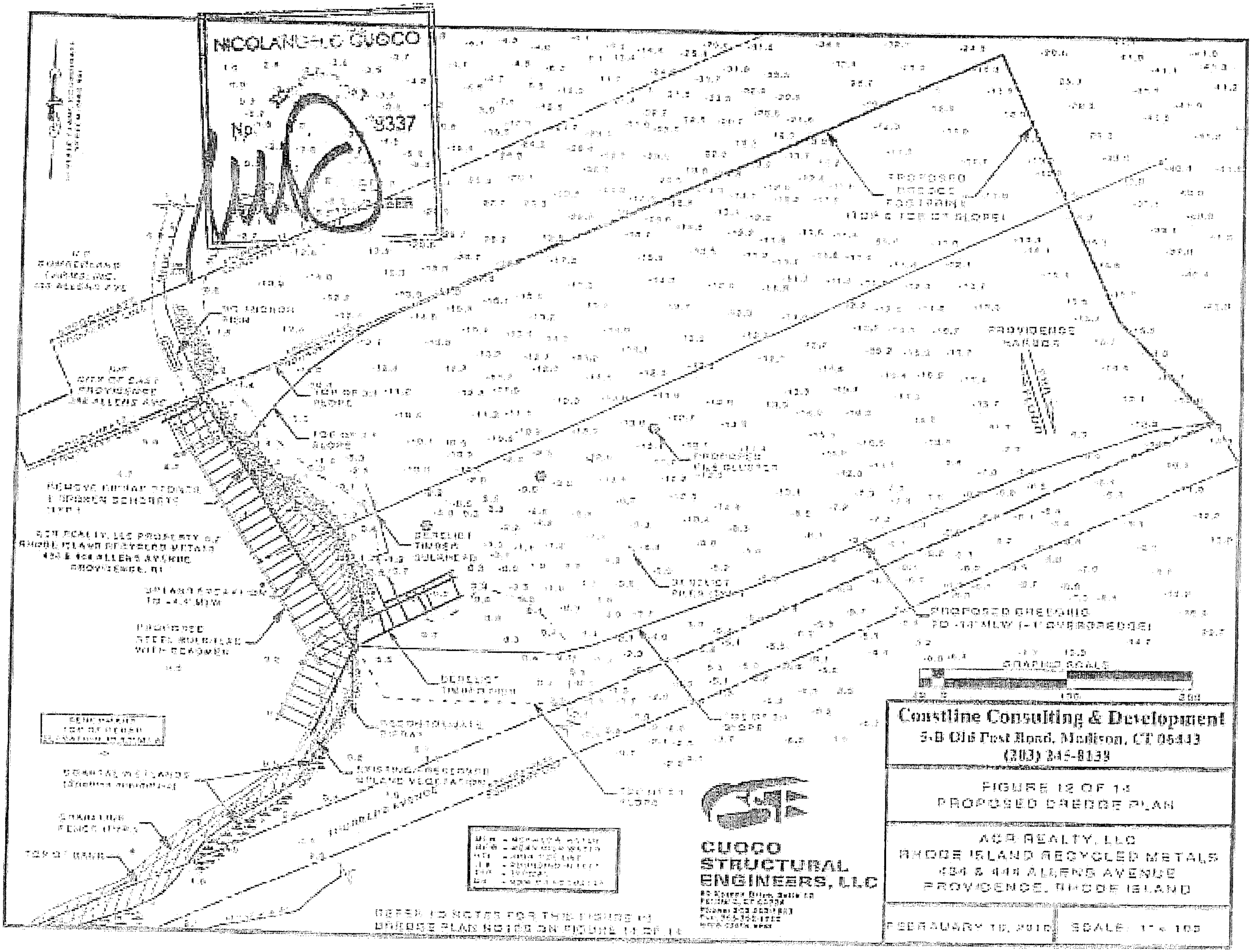
CUOCO STRUCTURAL ENGINEERS, LLC

Coastline Consulting & Development
5-B Old Post Road, Madison CT 06443
(203) 245-8138

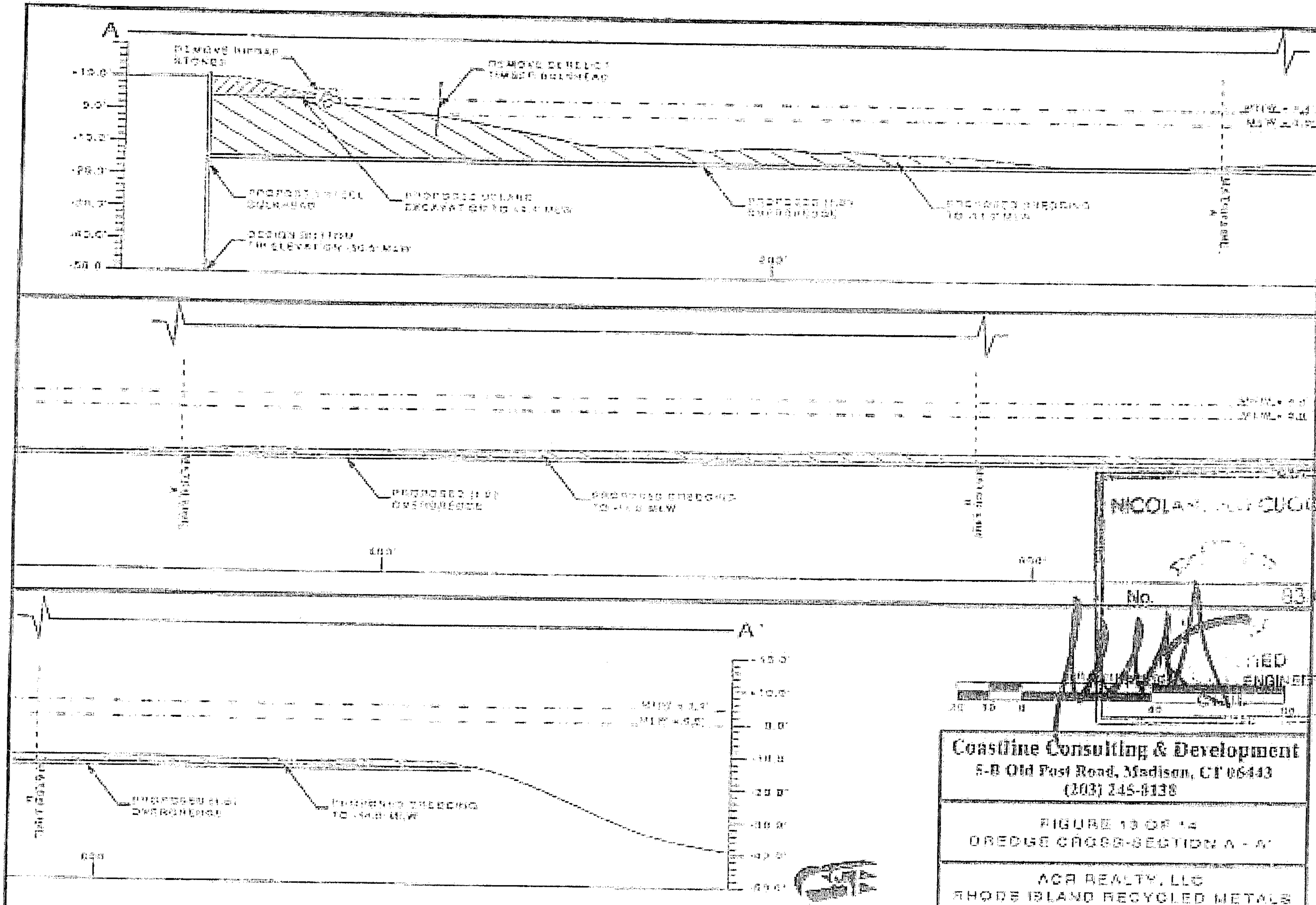
FIGURE 11 OF 14
BULKHEAD DRAWING NOTES 2 OF 2

ACR REALTY, LLC
RHODE ISLAND RECYCLED METALS
434 & 444 ALLENS AVENUE
PROVIDENCE, RHODE ISLAND

FEBRUARY 10, 2010 | FILE NO.: 09-059



NICOLANGELO CUOCO
No. 9337
PROPOSED DREDGE FOOTPRINT (TOP & TOE OF SLOPE)
PROVIDENCE HARBOR
PROPOSED DREDGING TO -14' MLW (-1' OVERDREDGE)
GRAPHIC SCALE
Coastline Consulting & Development
5-B Old Post Road, Madison, CT 06443
(203) 345-8139
FIGURE 12 OF 14
PROPOSED DREDGE PLAN
ACS REALTY, LLC
RHODE ISLAND RECYCLED METALS
434 & 444 ALLENS AVENUE
PROVIDENCE, RHODE ISLAND
FEBRUARY 16, 2010
CUOCO STRUCTURAL ENGINEERS, LLC



REFER TO NOTES FOR THIS FIGURE IN
DREDGE PLAN NOTES ON FIGURE 14 OF 14.

CUOCO STRUCTURAL ENGINEERS, LLC

NICOLA ... CUOCO
No. ...
... ENGINEER

Coastline Consulting & Development
5-B Old Post Road, Madison, CT 06443
(203) 245-8138

FIGURE 13 OF 14
DREDGE CROSS-SECTION A - A'

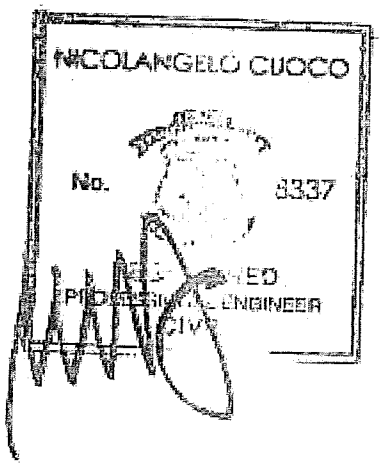
ACR REALTY, LLC
RHODE ISLAND RECYCLED METALS
434 & 444 ALLENS AVENUE
PROVIDENCE, RHODE ISLAND

FEBRUARY 10, 2011 | SCALE: 1" = 40'

DREDGE PLAN NOTES

FIGURES 12 & 13 OF 14
PROPOSED DREDGE PLAN & DREDGE CROSS-SECTION

1. THESE APPLICATION DRAWINGS WERE PREPARED FROM RECORDED RESEARCH, OTHER MAPS, LIMITED FIELD MEASUREMENTS COLLECTED ON AUGUST 26, 2009, AND OTHER SOURCES. THEY ARE NOT TO BE CONSTRUED AS PROPERTY/BOUNDARY OR LIMITED PROPERTY/BOUNDARY SURVEYS.
2. REFERENCE IS MADE TO:
    a. "FIGURE 4 OF 14, EXISTING CONDITIONS, ACR REALTY, LLC, RHODE ISLAND RECYCLED METALS, 434 & 444 ALLENS AVENUE, PROVIDENCE, RHODE ISLAND" PREPARED BY COASTLINE CONSULTING & DEVELOPMENT, LLC.
    b. "FIGURE 12 OF 14, PROPOSED DREDGE PLAN, ACR REALTY, LLC, RHODE ISLAND RECYCLED METALS, 434 & 444 ALLENS AVENUE, PROVIDENCE, RHODE ISLAND" PREPARED BY COASTLINE CONSULTING & DEVELOPMENT, LLC.
3. SOUNDINGS AND UPLAND ELEVATIONS ARE IN FEET AND REFERENCED TO THE MEAN LOW WATER (MLW) TIDAL DATUM BASED ON NAVD88.
4. THESE APPLICATION DRAWINGS ARE FOR PLANNING & PERMITTING PURPOSES ONLY AND ARE NOT INTENDED FOR BID DOCUMENTS, STRUCTURAL DESIGN, OR CONSTRUCTION. NOT ALL IMPROVEMENTS AND FEATURES HAVE BEEN DEPICTED.
5. ANY UNDERGROUND AND/OR UNDERWATER UTILITY, STRUCTURE, AND FACILITY LOCATIONS DEPICTED AND/OR NOTED HEREON MAY HAVE BEEN COMPILED, IN PART, FROM RECORD MAPPING SUPPLIED BY THE RESPECTIVE UTILITY COMPANIES OR GOVERNMENTAL AGENCIES, FROM PAROLE TESTIMONY AND FROM OTHER SOURCES. THESE LOCATIONS MUST BE CONSIDERED AS APPROXIMATE IN NATURE. ADDITIONALLY, OTHER SUCH FEATURES MAY EXIST ON THE SITE, THE LOCATIONS OF WHICH ARE UNKNOWN TO COASTLINE CONSULTING AND DEVELOPMENT, LLC. THE SIZE, LOCATION AND EXISTENCE OF ALL SUCH FEATURES MUST BE FIELD DETERMINED AND VERIFIED BY THE APPROPRIATE AUTHORITIES PRIOR TO ANY CONSTRUCTION. CALL BEFORE YOU DIG: 1-800-922-4455.



CUOCO STRUCTURAL ENGINEERS, LLC

Coastline Consulting & Development
5-B Old Post Road, Madison CT 06443
(203) 245-8138

FIGURE 14 OF 14
DREDGE PLAN NOTES

ACR REALTY, LLC
RHODE ISLAND RECYCLED METALS
434 & 444 ALLENS AVENUE
PROVIDENCE, RHODE ISLAND

FEBRUARY 10, 2010 | FILE NO.: 09-059

SOIL MANAGEMENT PLAN

434/444 Allens Avenue (Plat 47, Lot 601; Plat 55, Lot 10), Providence, RI

This Soil Management Plan (SMP) has been prepared to establish procedures that will be followed during the bulkhead installation at 434 & 444 Allens Avenue in Providence, Rhode Island. This proposed project requires the need to manage soils excavated from the subsurface. The plan serves to supplement, and will be initiated by, the RIDEM notification requirement established by the Environmental Land Use Restriction (ELUR) for the property.

Background

The property is located at 434 & 444 Allens Avenue in Providence. According to the U.S. EPA, Region I – New England, the site was formerly "...owned by various parties including U.S. Lumber Company and Putnam Lumber Company. From 1972 to 1979, the property was owned by Texaco, Inc. Refine Met International (Refine Met) acquired the property in 1979 and reportedly used the property as a resource recovery facility where scrap metal, computer parts, circuit boards, capacitors, radios, and selected electronic components were shredded. Capacitors manufactured prior to the 1970s frequently contained dielectric fluid composed of polychlorinated biphenyls (PCBs). On-site activities conducted while Refine Met occupied the property are unknown. Boliden purchased the property from Refine Met in 1983 and operated the site as a resource recovery facility engaged in the reclamation of precious metals and minerals from 1983 to 1989. Scrap metals were received in bulk form, shredded, sampled, categorized, and accumulated for shipment to smelters overseas. The property is currently inactive."

The property was found to contain PCBs during a site investigation performed at the property. More recently, the site has been remediated and been found in compliance with RIDEM's Rules and Regulations for the Investigation and Remediation of Hazardous Material Releases and has remained undeveloped since this time. The Department approved remedy apparently included the excavation of contaminated soils and filling with clean material. The regulated site soils are covered with Department approved engineered controls, consisting of clean soil and vegetation in order to prevent direct exposure to regulated soils and/or infiltration through soils which exceed the Department's Method 1 (GA or GB) Leachability Criteria.

Project Purpose

The purpose of this plan is to provide precautions and measures to be taken during and after construction to minimize soil erosion and sedimentation. The activity along the waterfront consists of the installation of a commercial/industrial shoreline protection structure and improvement dredging to create deep-water access and berthing. All structural components, save the three tie-off piles, will be located landward of the mean high water line. The proposed bulkhead and tie-off piles, in conjunction with the dredging, will allow derelict vessels to temporarily berth in a perpendicular fashion directly along the property's shoreline. The redeveloped waterfront will serve to facilitate the dismantling of derelict vessels. The scrap metal produced during the dismantling process will then be transferred to the upland and transported off-site to an

appropriate upland recycling facility. The proposed upland activities involve the installation of the bulkhead deadman anchor & tie-rod system and installation of a low-profile concrete work pad. The proposed structures involve negligible change in grade landward of the bulkhead location and no construction of above-ground structures. As a result, the proposed project will maintain existing upland topography.

Applicable Area

This SMP and affiliated ELUR, which restricts the property to Industrial/Commercial use, pertains to the entire property.

Project Details

The proposed activities include installation of a steel sheetpile bulkhead with a deadman anchor and tie-rod system. All components will be constructed landward of the mean high water line. The proposed activities involve negligible change in grade landward of the bulkhead location with no above-ground structures. As a result, the proposed project will maintain existing upland topography. The anticipated construction methodology and project sequencing is outlined in the following section. At this time, it is projected that a total of approximately 2,166 cubic yards of material will be temporarily excavated for the bulkhead tie-back system in multiple stages. The limit of this temporary excavation is shown on the application drawings. Any excess soil will be redeposited on-site per RIDEM instruction and approval. In addition, it is projected that a total of approximately 500 cubic yards of material will be excavated waterward of the bulkhead down to the MHW elevation of +4.4' MLW. The limit of this excavation is shown on the application drawings. Any excavated soil will be either redeposited on-site or transported off-site per RIDEM instruction and approval. The project is anticipated to take approximately 90 working days to complete.

Construction Methodology & Project Sequencing

The installation of the new steel bulkhead and tie-back system will be conducted in multiple stages as outlined below:

1. The first phase of the project will consist of installing the steel sheeting. The bulkhead location will be properly staked with survey equipment prior to the initiation of construction activities. The installation of the sheeting will be conducted from a land based crane using a vibratory hammer. No excavation is planned with this phase, as the contractor will install the sheeting by ground penetration. The contractor will start at the northerly end of the property and work in a southerly direction, installing all sheeting in its entirety prior to installation of the deadman system.

2. Next, the contractor will begin installation of the tie-back system by excavating the soil on the landward side of the new steel sheeting. The work will be conducted from the upland, landward of the mean high water line, and will not impact coastal resources. This work will be accomplished by use of a backhoe stationed on the upland. The contractor will temporarily stockpile the backfill

material on an upland portion of the site. A silt fence will be installed around the perimeter of all stockpiled material.

3. Next, the contractor will begin installing the upland concrete deadmen. Temporary timber framing will be constructed to form the concrete deadman. The deadman will be then poured by machinery stationed from the upland. Once the concrete has cured, the timber forms will be removed.

4. Next, the Contractor will begin installing the walers and tie-rods. Twelve-inch walers will be installed on the landward face of the new steel sheeting. Tie-rods will then be connected from the deadman system to the whalers on the backside of the new steel sheeting. Once the steel tie-rods are connected, geotextile fabric and crushed stone will be installed on the immediate landward side of the bulkhead. A backhoe and skid steer will return the ground to existing grade.

5. As the final step before the dredging project, the contractor will then excavate the area waterward of the new steel bulkhead down to the MHW elevation of +4.4' MLW. Excavation will be conducted using an upland based excavator. This material will be disposed of on the project site landward of the proposed bulkhead or transported off site to an appropriate upland facility per RIDEM instruction and approval.

Soil Management

The direct exposure pathway is the primary concern at the site. Individuals engaged in activities at the site may be exposed through incidental ingestion, dermal contact, or inhalation of vapors or entrained soil particles if proper precautions are not taken. Therefore, the following procedures will be followed to minimize the potential of exposure.

1. All standards and specifications set forth in the most recent RI Soil Erosion and Sediment Control Handbook (RISESCH) will be strictly adhered to. Control measures will follow the specifications depicted in the attached R.I. Standards drawings from the Rhode Island Department of Transportation.

2. Hay bales will be toed in to a depth of 3 to 4 inches and maintained by replacing bales where necessary until permanent re-vegetation of the site is completed.

3. Where natural or manmade slopes are or have become susceptible to erosion, the slopes will be graded to a suitable slope and re-vegetated with thick rooting brush vegetation. Mulch will be applied as necessary to provide protection against erosion until the vegetation is established.

4. Construction will be timed to accommodate runoff flow and to allow flows over exposed, un-stabilized soils, or into or through the area of temporary excavation.

300.6.E.3.b Peak Runoff Rate And Average Volume

The proposed BMP has been designed to mitigate peak runoff and average volume. As such, there are no anticipated changes from pre-development to post-development.

300.6.E.3.c Surface Runoff

In order to determine a Best Management Practice (BMP) for the project, Coastline Consulting & Development, LLC reviewed the Rhode Island Stormwater Design and Installation Standards Manual. Following a review of the manual, it was determined that the most appropriate BMP to mitigate stormwater runoff is to utilize an infiltration trench along the landward face of the proposed bulkhead. As noted above, it has been demonstrated that the infiltration trench will properly treat surface runoff.

300.6.E.3.d Concentrated Runoff and Roof Top Runoff

The proposed project will incorporate an infiltration trench that will avoid producing concentrated flows. The property does not currently experience roof top runoff, thus no adverse impacts are anticipated from this source.

300.6.E.3.e Natural Vegetation

The proposed project location has minimal vegetation in the immediate vicinity. It is understood that some of the existing vegetation was a result of the remedial activities associated with the site's Brownfield designation. The majority of the local vegetation is located in areas that will not be impacted by the project. As such, there are no anticipated impacts to natural vegetation.

300.6.E.3.f Conveyance

In order to determine a Best Management Practice (BMP) for the project, Coastline Consulting & Development, LLC reviewed the Rhode Island Stormwater Design and Installation Standards Manual. Following a review of the manual, it was determined that the most appropriate BMP to mitigate stormwater runoff it to utilize an infiltration trench along the landward face of the proposed bulkhead. The infiltration trench has been designed to the standards set forth in the Manual, and therefore will adequately convey the runoff from a ten-year storm event.

300.6.E.3.g Connections to Storm, Surface, Subsurface Drains or ISDS

The project will not include the connection to any storm, surface, or subsurface drains. There are no ISDS's located within 25 feet of the proposed project.

300.6.E.3.h Design and Installation Standards

In order to determine a Best Management Practice (BMP) for the project, Coastline Consulting & Development, LLC reviewed the Rhode Island Stormwater Design and Installation Standards Manual. The project has been designed to meet all applicable Standards.