

Solicitation Information

BID # 7458315

**TITLE: 2013-DF-039 HURRICANE SANDY REPAIRS-
STATEWIDE**

Submission Deadline: 12/5/12 – 1:30 P.M.

Bidders are advised that, due to the emergency nature of the repairs identified in this solicitation, a general scope of work and description only is provided. The available documents are contained herein, and are the only available specifications that will be provided for this procurement.

A total lump sum bid proposal is required, and will be the basis for award, however where there are multiple sites identified, a lump sum breakdown is required.

BID PROPOSALS MUST BE DELIVERED TO THE DIVISION OF PURCHASES , ONE CAPITOL HILL, PROVIDENCE, RI AT THE DATE AND TIME NOTED ABOVE, AND MUST INCLUDE THE FOLLOWING:

- BID PROPOSAL FORM WITH TOTAL LUMP SUM PRICE
- BID SURETY
- LUMP SUM BREAKDOWN OF SITE, IF MULTIPLE SITES ARE IDENTIFIED
- THREE-PAGE BIDDER CERTIFICATION COVER FORM
- FEDERAL FORMS, COMPLETED (LOBBYING FORM, DISCLOSURE FORM, ANTI-COLLUSION FORM)
- LATE BIDS SHALL NOT BE ACCEPTED. PROPOSALS MISDIRECTED TO OTHER STATE LOCATIONS OR WHICH ARE OTHERWISE NOT SUBMITTED TO THE DIVISION OF PURCHASES PRIOR TO THE TIME OF THE OPENING FOR ANY CAUSE WILL BE DETERMINED TO BE LATE AND SHALL NOT BE CONSIDERED. THE 'OFFICIAL' TIME CLOCK IS IN THE RECEPTION AREA OF THE DIVISION OF PURCHASES.
- **PUBLIC COPY REQUIREMENT- DUE TO THE ANTICIPATED BID VALUE IN EXCESS OF \$750,000 , BIDDERS ARE REQUIRED TO SUBMIT A "PUBLIC COPY" OF BIDS IN ACCORDANCE WITH R.I. GEN. LAWS 37-2-18(j). THIS PUBLIC COPY MAY BE SUBMITTED ON EITHER A READABLE CD OR HARD (PAPER) COPY FOR THIS EMERGENCY PROCUREMENT.**

SURETY REQUIRED: YES
BOND REQUIRED: YES

DISKS CONTAINING PLANS AND SPECIFICATIONS ARE ALSO AVAILABLE FOR PICK UP AT DOT, 2 CAPITOL HILL, ROOM 108, PROVIDENCE, RI BETWEEN THE HOURS OF 8:00-4:00 P.M. M-F


Lisa Hill
Chief Buyer

Vendors must register on-line at the State Purchasing Website at www.purchasing.ri.gov

Note to Vendors: Offers received without the completed RIVP Generated Bidder Certification Form may result in disqualification.

RHODE ISLAND DIVISION OF PURCHASES
HURRICANE SANDY BID PROPOSAL FORM



PROJECT NO. 2013-DF-039

BID A TOTAL PRICE TO FURNISH ALL LABOR, MATERIALS AND EQUIPMENT, AND INCIDENTALS WITH TRAFFIC CONTROL IN CONFORMANCE MUTCD (MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES) REQUIREMENTS TO PERFORM REPAIRS AS DESCRIBED IN THE BID DOCUMENTS.

The breakdown for each Hurricane ID is as follows:

HRS-007 \$ _____

HRS-009 \$ _____

HRS-022 \$ _____

HRS-023 \$ _____

\$ _____

NUMERICAL

\$ _____

WRITTEN WORDS

*NOTE: WORDS AND NUMBERS MUST MATCH. PROPOSALS OFFERING DIFFERENT AMOUNTS WILL BE REJECTED.

BID PROPOSAL MUST BE ACCOMPANIED BY THE ATTACHED BIDDER CERTIFICATION FORM.

SUCCESSFUL BIDDER WILL BE REQUIRED TO FURNISH AN INSURANCE CERTIFICATE IDENTIFYING THE STATE OF RHODE ISLAND DEPARTMENT OF TRANSPORTATION AS THE ADDITIONAL INSURED.

RHODE ISLAND DIVISION OF PURCHASES
HURRICANE SANDY BID PROPOSAL FORM

LIMITS OF LIABILITY ARE AS IDENTIFIED IN ITEM 31 STATE OF RHODE ISLAND
CONDITIONS OF PURCHASE WHICH CAN BE VIEWED AT THE FOLLOWING
WEBSITE:

<http://www.purchasing.ri.gov/RIVIP/publicdocuments/ATTA.pdf>

IF THE CONTRACTOR VALUE EXCEEDS \$50,000 THE SUCCESSFUL BIDDER WILL BE
REQUIRED TO FURNISH A PERFORMANCE AND PAYMENT BOND FOR 100% OF THE
CONTRACT VALUE WITHIN THREE (3) DAYS OF REQUEST. FAILURE TO FURNISH
SAID BOND WILL RESULT IN DISQUALIFICATION.

ALL WORK PERFORMED IN CONJUNCTION WITH THIS PROJECT SHALL BE
COMPLETED IN ACCORDANCE WITH THE RHODE ISLAND DEPARTMENT OF
TRANSPORTATION STANDARDS AND SPECIFICATIONS FOR ROAD AND BRIDGE
CONSTRUCTION, 2004 EDITION, COMPILATIONS OF APPROVED
SPECIFICATIONS, REQUIRED CONTRACT PROVISIONS FOR FEDERAL AID
CONSTRUCTION CONTRACTS, GENERAL PROVISIONS, RHODE ISLAND STANDARD
DETAILS, RHODE ISLAND BRIDGE STANDARD DETAILS, FEDERAL WAGE RATES,
CONTRACT SPECIFIC GENERAL PROVISIONS, JOB-SPECIFIC SPECIFICATIONS,
DISTRIBUTION OF QUANTITIES, APPENDICES (IF APPLICABLE).

DATE: _____

CONTRACTOR: _____

SIGNATURE: _____

NAME: _____

TITLE: _____

DISCLOSURE OF LOBBYING ACTIVITIES

Complete this form to disclose lobbying activities pursuant to 31 U.S.C. 1352 - 0348-0046
(see reverse for public burden disclosure)

<p>1. Type of Federal Action:</p> <p><input type="checkbox"/> a. contract</p> <p><input type="checkbox"/> b. grant</p> <p><input type="checkbox"/> c. cooperative agreement</p> <p><input type="checkbox"/> d. loan</p> <p><input type="checkbox"/> e. loan guarantee</p> <p><input type="checkbox"/> f. loan insurance</p>	<p>2. Status of Federal Action:</p> <p><input type="checkbox"/> a. bid/offer/application</p> <p><input type="checkbox"/> b. initial award</p> <p><input type="checkbox"/> c. post-award</p>	<p>3. Report Type:</p> <p><input type="checkbox"/> a. initial filing</p> <p><input type="checkbox"/> b. material change</p> <p>For Material Change Only:</p> <p>year _____ quarter _____</p> <p>date of last report _____</p>
<p>4. Name and Address of Report Entity:</p> <p><input checked="" type="checkbox"/> Prime <input type="checkbox"/> Subawardee</p> <p style="padding-left: 100px;">Tier ____, if known:</p> <p>Congressional District, if known: _____</p>		<p>5. If Reporting Entity in No. 4 is Subawardee, Enter Name and Address of Prime:</p> <p>Congressional District, if known: _____</p>
<p>6. Federal Department Agency:</p>	<p>7. Federal Program Name/Description:</p> <p>CFDA Number, if applicable: _____</p>	
<p>8. Federal Action Number, if known:</p>	<p>9. Award Amount, if known:</p> <p>\$ _____</p>	
<p>10. a. Name and Address of Lobbying Entity:</p> <p>(if individual, last name, first name, mi): _____</p>	<p>10. b. Individuals Performing Services (including address if different from No. 10a)</p> <p>(last name, first name, mi): _____</p>	
<p>11. Amount of Payment (check all that apply)</p> <p>\$ _____ <input type="checkbox"/> actual <input type="checkbox"/> planned</p>	<p>13. Type of Payment (check all that apply):</p> <p><input type="checkbox"/> a. retainer</p> <p><input type="checkbox"/> b. one-time fee</p> <p><input type="checkbox"/> c. commission</p> <p><input type="checkbox"/> d. contingent fee</p> <p><input type="checkbox"/> e. deferred</p> <p><input type="checkbox"/> f. other; specify: _____</p>	
<p>12. Form of Payment (check all that apply):</p> <p><input type="checkbox"/> a. cash</p> <p><input type="checkbox"/> b. in-kind; specify: nature _____</p> <p style="padding-left: 100px;">value _____</p>		
<p>14. Brief Description of Services Performed or to be Performed and Date(s) of Service, including officer(s), employee(s), or Member(s) contracted, for Payment indicated in Item 11 (Attach Continuation Sheet(s) SF-LLL-A, if necessary):</p> <p>_____</p>		
<p>15. Continuation Sheet(s) SF-LLL-A attached: <input type="checkbox"/> yes <input checked="" type="checkbox"/> no</p>		
<p>16. Information requested through this form is authorized by title 31 U.S.C. section 1352. this disclosure of lobbying activities is a material representation of fact upon which reliance was placed by the tier above when this transaction was made or entered into. This disclosure is required pursuant to 31 U.S.C. 1352. This information will be reported to the Congress semi-annually and will be available for public inspection. any person who fails to file the required disclosure shall be subject to a civil penalty of not less than \$10,000 and not more than \$100,000 for each such failure.</p>		<p>Signature: _____</p> <p>Print Name: _____</p> <p>Title: _____</p> <p>Telephone No: _____ Date: _____</p>
<p>For Federal use Only:</p>		<p>Authorized for Local Reproduction Standard Form - LLL-A</p>

DISCLOSURE OF LOBBYING ACTIVITIES

CONTINUATION SHEET

Reporting Entity: _____ Page _____ of _____

CONFLICTS DISCLOSURE POLICY

To ensure that the Rhode Island Department of Transportation (RIDOT) maintains the continued confidence and trust of the people of Rhode Island in carrying out its mission, prospective vendors must disclose any family (or other personal) relationships, associations or connections that the vendor, its affiliates, or employees, may currently have with any RIDOT employee. A Conflicts Disclosure Statement shall be submitted to RIDOT from the following:

- ❖ Owners;
- ❖ Directors;
- ❖ Principals;
- ❖ Officers, board members, or individuals with corporate authority;
- ❖ If the vendor is a partnership, the applicant's partners;
- ❖ If the vendor is a limited liability company, its members and managers;
- ❖ Employees with decision-making authority, including executive directors, managers or individuals in a similar position with corporate authority; and
- ❖ Shareholders with a controlling interest.

**CERTIFICATION REGARDING DEBARMENT, SUSPENSION
AND OTHER RESPONSIBILITY MATTERS
PRIMARY COVERED TRANSACTIONS**

In accordance with the code of Federal Regulations, Part 49 CFR Section 29.510, the prospective primary participant _____ (name of Authorized Agent), _____ (Title), being duly sworn (or under penalty of perjury under the laws of the United States), certifies to the best of his/her knowledge and belief, that its principals:

- a. Are not presently debarred, suspended, proposed for debarment, declared ineligible or voluntarily excluded from covered transactions by any Federal department or agency;
- b. Have not within a three-year period preceding this proposal been convicted of or had a civil judgment rendered against them for commission of fraud or a criminal offense in connection with obtaining, attempting to obtain, or performing a public (Federal, State or local) transaction or contract under a public transaction; violation of Federal or State antitrust statutes or commission of embezzlement, theft, forgery, bribery, falsification or destruction of records, making false statements, or receiving stolen property;
- c. Are not presently indicted for or otherwise criminally or civilly charged by a governmental entity (Federal, State or local) with commission of any of the offenses enumerated in paragraph (1)(b) of this certification;
- d. Have not within a three-year period preceding this application/proposal had one or more public transactions (Federal, State or local) terminated for cause or default.

Where the prospective primary participant is unable to certify to any of the statements in this certification, such prospective participant shall list exceptions below.

Exceptions will not necessarily result in denial of award, but, will be considered in determining contractor responsibility. For any exception noted, indicate below to whom it applies, the initiating agency, and the dates of the action. Providing false information may result in criminal prosecution or administrative sanctions. If an exception is noted the contractor must contact the Department to discuss the exception prior to award of the contract.

Signature of Authorized Agent

Date

Revised: 4/12/2002

**ANTI-COLLUSION CERTIFICATE FOR CONTRACT AND FORCE ACCOUNT
[Unsworn Declaration]**

Title 23, United States Code, Section 112(c), requires, as a condition precedent to approval by the Director of Public Roads of the contract for this work, that there be filed an unsworn declaration executed by, on behalf of, the person, firm, association, or corporation submitting the bid certifying that such person, firm, association, or corporation has not either directly or indirectly, entered into any agreement, participated in any collusion, or otherwise taken any action, in restraint of free competitive bidding in connection with the submitted bid. This unsworn statement shall be in the form of a declaration executed under penalty of perjury under the laws of the United States.

To the: **STATE OF RHODE ISLAND AND PROVIDENCE PLANTATIONS
DEPARTMENT OF TRANSPORTATION, DIVISION OF PUBLIC WORKS**

State of _____

County of _____

I, _____, _____, under penalty under the laws of the United States, do depose and say:

On behalf of _____, of _____ that said Contractor has not, either directly or indirectly, entered into any agreement, participated in any collusion, or otherwise taken any action in restraint of free competitive bidding in connection with Rhode Island Contract Number _____, Federal-Aid Project Number _____, County of _____, Town-City _____, Road-Bridge _____.

HURRICANE SANDY DAMAGE GUIDELINES

Hurricane Sandy Damage Proposal Protocol

1. Talk with Engineering to obtain photos or take your own for repair location.
2. Verify scope with engineering and your supervisor.
3. Meet with a minimum of two contractors together at the site to discuss the scope of restoration. Obtain proposal from the two contractors, within 24 hours, and forward to the main office. Proposal for work should be lump sum based on the estimated scope from discussions with you and engineering, and supervisor. The contractor's proposal must include schedule for start and completion for work as well as a bond (for restoration/repair work over \$50,000 only).
4. Contract Administration office will provide a letter of approval to start work and Construction Management Office will authorize RE to start work
5. Construction Management Office to give copies of proposal and projected completion date to Engineering Office to update spreadsheet.
6. Engineering will set up paperwork for FHWA funding
7. Resident Engineer/Inspector to document activity using daily activity reports and photos.
8. Supervisor must be notified of completed work, perform final inspection with Office of Quality Compliance and Review to accept work and authorize payment.

General Guidelines

1. All work and materials must comply with RI Standards and Specifications.
2. Stay within the original scope of work unless otherwise approved by Construction Management Office.
3. Erosion controls are required, where appropriate
4. All traffic controls must be installed per the MUTCD

Construction Guidelines

1. Repairs are to be kept to a minimum, but restored to original line and grade
2. Materials section must be contacted accordingly for appropriate test as required
3. Paved shoulder repairs/roadways should be leveled, backfilled with appropriate material, compacted, paved and striped
4. All paved shoulder/roadway restoration, cut and match line, should be located on the roadway edge line. If the washout is beyond the edge line the cut and match line should be the center of the travel lane. If greater

than ½ of the travel lane... cut and match at the centerline of the roadway.
DO NOT LOCATE JOINTS IN THE WHEELPATH

Roadway repairs should include, but not be limited to the following. Saw cut pavement, remove pavement, backfill with gravel borrow subbase and restore flexible pavement in-kind.

5. Landscape shoulders must be restored and stabilized with appropriate materials such as jute mesh, fabric or just plantable soil and seed
6. If the roadway/bridge is closed, this will be considered a priority and the contractor should base his proposal on working a minimum of 12 hours per day and work will take place six days per week, Monday thru Saturday.
7. If the roadway/bridge is open to traffic, the contractor proposal should be based on a minimum 8 hours per day and work will take place six days per week, Monday thru Saturday
8. We do not anticipate any overnight work at this time
9. Holiday work is required except on Thanksgiving Day, Christmas Day and New Year's Day

RI Contract No. 2013-DF-039
Hurricane Sandy
Repairs

#177 NEW MEADOW ROAD IN BARRINGTON
(HRS-007 attached)

BEAVERTAIL ROAD IN JAMESTOWN
(HRS-009 attached)

#125 WARREN AVENUE IN EAST PROVIDENCE
(HRS-022 attached)

#199 WASHINGTON STREET IN WEST WARWICK
(HRS-023 attached)

The Contractor shall not use private property to store equipment or materials without written approval of the property owner. All work must be completed from the State Right-of-Way. No areas shall be disturbed outside the limits of work.

RIDOT will pay for police when they are used. The contractor is required to include flaggers in their bid.

All RIDOT Standard Specifications, latest Compilations and Material Testing requirements apply to this contract.

All work associated with HRS-007, HRS-022, and HRS-023 must be completed by December 31, 2012. All work associated with HRS-009 must be completed by January 31, 2013.

Payment of Lump Sum items will be based on the percentage of work completed. The State will hold 10% of the Lump Sum item until Final Acceptance. A 3% retainage will not be held.

All Construction Layout and Survey will be incidental to this Contract.

All pavement layer thickness shall be as required in the project scope. All areas where pavement is removed must be restored within 3 days or the end of the work week.

All pavement markings will be epoxy resin.

Performance Bonds and Insurance are required for all work over \$50,000.

The contractor shall certify with their bid that they have sufficient resources to complete the work without having an effect on any existing emergency repair contracts or other RIDOT contracts.

Latest Federal Wage rates shall apply.

Subcontractor agreements must be submitted and accepted by the Department.

RIDOT Hurricane Sandy Guidelines are also attached for your information.

Any damage to the drainage system/utilities caused by the contractor will be fixed at the Contractor's expense.

Traffic Control shall conform to the 2009 Manual on Uniform Traffic Control Devices and attached Traffic Related Work Restrictions and temporary traffic control setups.

Approved Class 9.5, Class 12.5, and Class 19 mixes shall be used and shall incorporate an approved warm mix additive at the appropriate dosage rate.

No additional payment shall be made for material, equipment, labor or other incidentals necessary to perform operations during cold or inclement weather. Any additional costs associated with cold or inclement weather work shall be considered incidental to the contract.

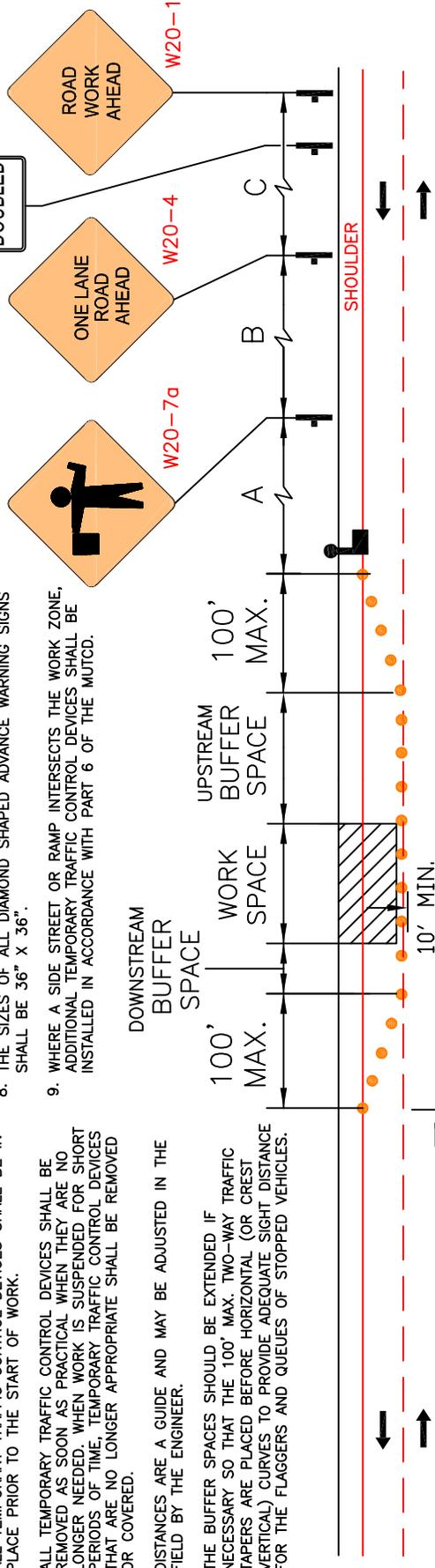
The Contractor shall check and verify the location of all existing utilities both underground and overhead in accordance with the "Dig Safe Program Law" enacted by Rhode Island Legislation. The Contractor should be aware that not all utilities subscribe to the Dig Safe program. If utilities are found to be present, it is the Contractor's responsibility to ensure that all utility companies have been notified and all utilities have been marked prior to commencing work. Any damage to existing utilities shall be replaced or repaired to the satisfaction of the Engineer at no additional cost to the State.

NOTES:

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

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

WORK ZONE
TRAFFIC FINES DOUBLED
 R.I. Std. 27.1.1
 (SEE STD. FOR SIZES AND INSTALL LOCATION)



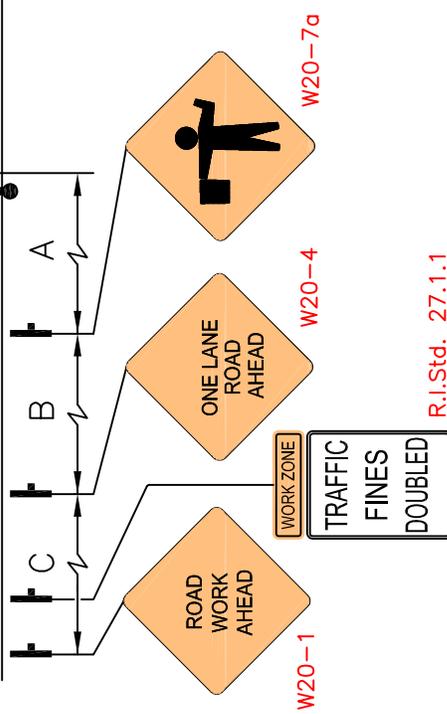
BUFFER LENGTHS

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

* Suggested

MINIMUM ADVANCE WARNING SIGN SPACING

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



R.I. Std. 27.1.1



RHODE ISLAND
 DEPARTMENT OF TRANSPORTATION
 TEMPORARY
 TRAFFIC CONTROL PLAN

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

NOT TO SCALE

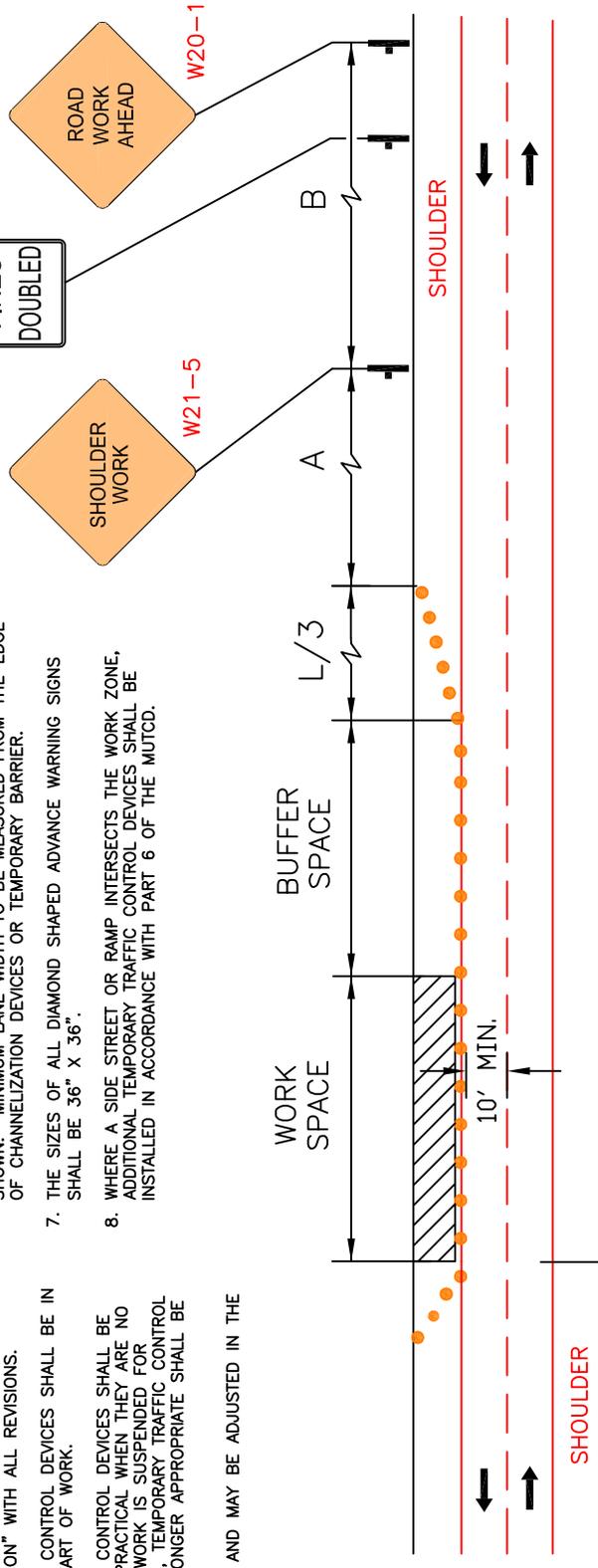
DATE: 12-23-08

NOTES:

1. ALL TEMPORARY TRAFFIC CONTROL SET-UPS AND DEVICES AND THEIR INSTALLATION, MAINTENANCE, AND REMOVAL SHALL CONFORM TO THE LATEST EDITION OF THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" (MUTCD) WITH ALL REVISIONS, AND THE LATEST EDITION OF THE "RIDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" WITH ALL REVISIONS.
2. ALL TEMPORARY TRAFFIC CONTROL DEVICES SHALL BE IN PLACE PRIOR TO THE START OF WORK.
3. ALL TEMPORARY TRAFFIC CONTROL DEVICES SHALL BE REMOVED AS SOON AS PRACTICAL WHEN THEY ARE NO LONGER NEEDED. WHEN WORK IS SUSPENDED FOR SHORT PERIODS OF TIME, TEMPORARY TRAFFIC CONTROL DEVICES THAT ARE NO LONGER APPROPRIATE SHALL BE REMOVED OR COVERED.
4. DISTANCES ARE A GUIDE AND MAY BE ADJUSTED IN THE FIELD BY THE ENGINEER.

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

WORK ZONE
TRAFFIC FINES DOUBLED
 R.I. Std. 27.1.1
 (SEE STD. FOR SIZES AND INSTALL LOCATION)



TAPER AND BUFFER LENGTHS

Speed Limit	Taper Length* (L) Feet	Buffer Space** (L) Feet
25 MPH	125	55
30 MPH	180	85
35 MPH	245	120
40 MPH	320	170
45 MPH	540	220
50 MPH	600	280

* Required
 ** Suggested

MINIMUM ADVANCE WARNING SIGN SPACING

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



RHODE ISLAND
 DEPARTMENT OF TRANSPORTATION
 TEMPORARY
 TRAFFIC CONTROL PLAN

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

NOT TO SCALE

DATE: 12-23-08

State of Rhode Island
Department of Transportation
Emergency Hurricane Repairs
Contract 2013-DF-039

Legend

 Contract Site Locations

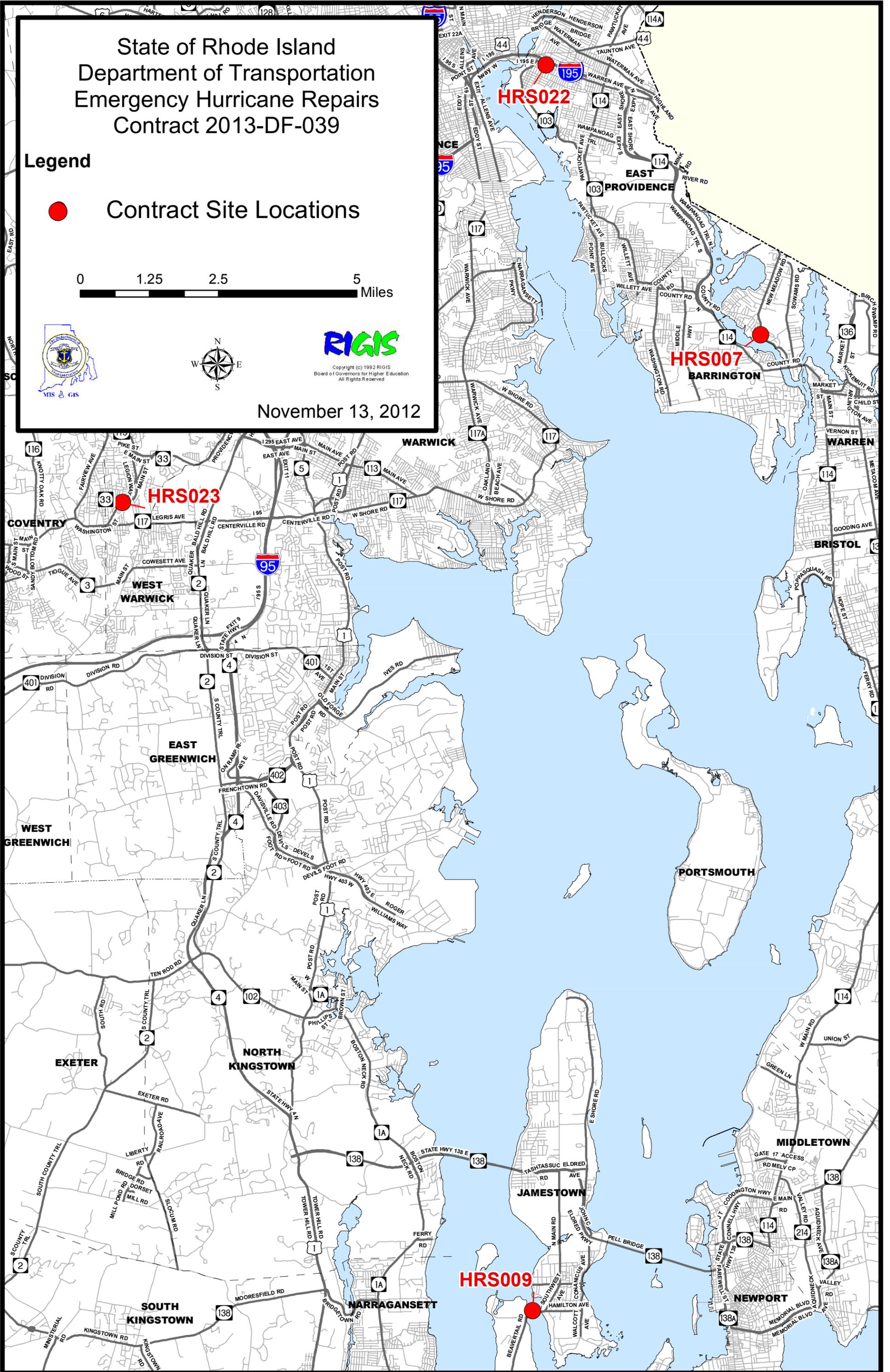
0 1.25 2.5 5 Miles



RIGIS

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November 13, 2012



HURRICANE SANDY DAMAGE INVENTORY

TOWN OF BARRINGTON

NOVEMBER 26, 2012

#177 NEW MEADOW ROAD

HRS-007

The roadway is cracked and the edge is falling apart. The guardrail at the culvert has been compromised.

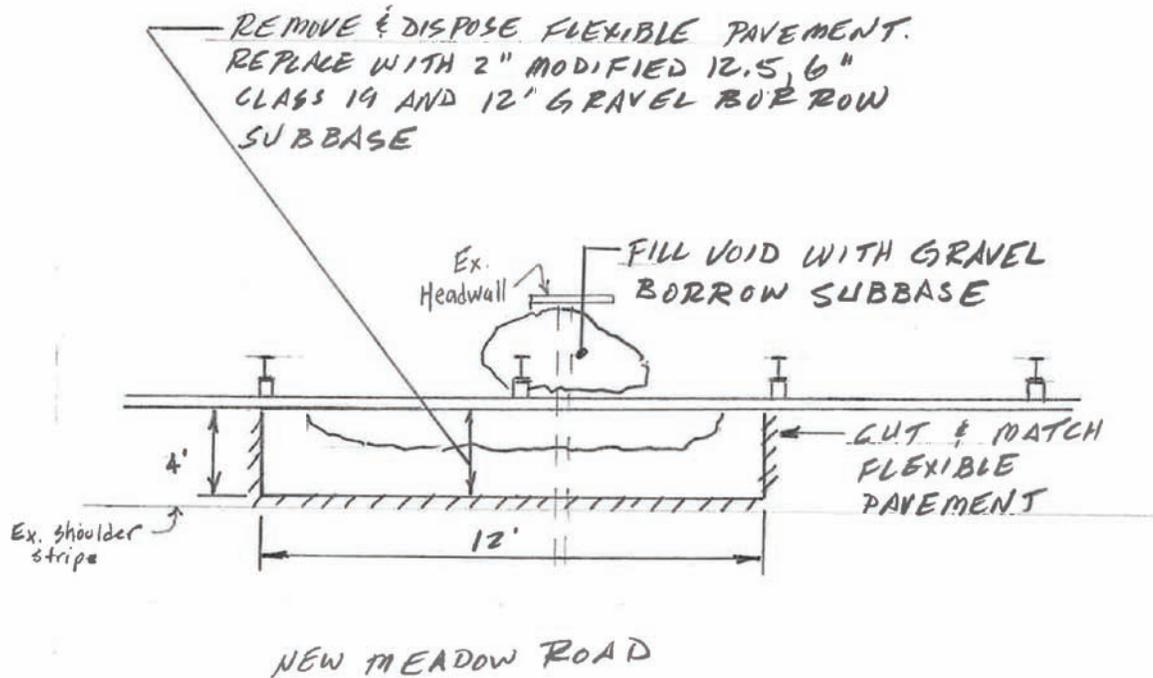
The repair of the roadway shall follow the attached sketch and include the following:

- Sawcut bituminous pavement just outside shoulder stripe
- Remove and dispose flexible pavement
- Place new gravel borrow subbase to fill void
- Place new shoulder: 2 inches Class 12.5, 6 inches Class 19, 12 inches gravel borrow subbase, trimming and fine grading
- Traffic Control shall conform to the 2009 Manual on Uniform Traffic Control Devices and attached temporary traffic control setups.

The limits of work are identified on the sketch.

HRS-007

NEW MEADOW ROAD, BARRINGTON
OPPOSITE HOUSE #177 AT CULVERT



RIC 2013-DF-039

RHODE ISLAND
DEPARTMENT OF TRANSPORTATION

HURRICANE SANDY
DAMAGE REPAIRS

STATEWIDE

RHODE ISLAND



CROSSMAN ENGINEERING

151 Centerville Road | Warwick, Rhode Island 02886

177 NEW MEADOW RD, BARRINGTON

CHECKED BY _____

DATE _____

SCALE NTS



30/12/2012



30/12/2012

HURRICANE SANDY DAMAGE INVENTORY

TOWN OF JAMESTOWN NOVEMBER 26, 2012

BEAVERTAIL ROAD

HRS-009

Waves and flooding have damaged the roadway along Beavertail Road.

The repair of the roadway shall follow the attached sketches and include the following:

- Clear and grub
- Remove and dispose sidewalks
- Remove and dispose flexible pavement
- Remove and dispose steel-backed timber guardrail
- Remove and dispose rocks, sand, and debris
- Excavate earth
- Place common borrow
- Install Erosion Controls
- Place millings beneath guardrail
- Place gravel borrow subbase
- Place special graded aggregate
- Place new roadway/shoulder: 2 inches Class 12.5, 6 inches Class 19, 12 inches gravel borrow subbase, trimming and fine grading
- Apply asphalt emulsion tack coat
- Clean drainage structures
- Clean and flush pipes
- Install steel-backed timber guardrail RI Standard 34.4.0
- Install steel-backed timber guardrail Type 1 end section RI Standard 34.4.1
- Install bituminous sidewalk: 3 inches Class 9.5, 8 inches gravel borrow subbase, trimming and fine grading
- Place stone rip-rap R-8
- Place 20 mil PVC geomembrane for rip-rap
- Place filter fabric for riprap
- Clear, clean, and sweep sidewalks
- Sawcut bituminous pavement full-depth
- Sawcut bituminous sidewalk
- Place waterborne pavement marking paint
- Closed Circuit Television (CCTV) inspecting all pipes and structures after the cleaning and flushing has been completed.

The inspection shall conform to the attached specification. For the Closed Circuit Television (CCTV) inspections, data must be submitted electronically and must be compatible with Microsoft Access. Should collection software not be compatible with

Access, then RIDOT will supply blank forms, with examples and an Access database for data entry, to the low bidder.

- Traffic Control shall conform to the 2009 Manual on Uniform Traffic Control Devices and attached temporary traffic control setups.

The limits of work are from Fort Getty Road to Hamilton Avenue (approximately 2000 feet).

The Jamestown DPW can be reached at (401) 423-7225 and United Water at (401) 789-0271.

CLOSED CIRCUIT TELEVISION INSPECTION (CCTV) INSPECTION OF PIPELINE

Description:

The Contractor shall furnish all labor, materials, equipment and incidentals required to perform a CCTV inspection of the existing storm water drainage system after it is cleaned and flushed. The Contractor shall be licensed to perform CCTV Inspection with a minimum of five active years of experience in performing CCTV inspections.

Construction Methods:

The Contractor shall be licensed to perform CCTV Inspection with a minimum of five active years of experience in performing CCTV inspections. The Contractor shall provide proof of qualifications to the Engineer.

The pipes shall be visually inspected by means of color closed-circuit television. The inspection shall be recorded on DVD and printed on CCTV inspection logs.

The CCTV camera shall be specifically designed and constructed for such inspection; equipped with a light to allow a clear picture of the entire periphery of the pipe; operative in 100-percent humidity conditions; and equipped with manual or power winch, TV cable, powered rewinds or other devices that do not obstruct the camera view to move the camera through the pipeline. The camera, television monitor, recording device, and all other components of the video system shall be capable of producing picture quality acceptable to the Engineer. The camera shall be moved through the line in either direction at a moderate rate, stopping when necessary to permit proper documentation of the pipe's condition. In no case will the television camera be pulled at a speed greater than 30 feet per minute. At areas of interest, the camera shall be capable of rotating its lens 360-degrees to obtain a clearer, more direct viewing angle. Manual winches, power winches, TV cable, and powered rewinds or other devices that do not obstruct the camera view or interfere with proper documentation of the pipe conditions shall be used to move the camera through the pipe line. The CCTV inspection equipment shall be equipped with a device to locate defects by measurement. Marking on the cable, or the like, which would require interpolation for depth of manhole, is not allowed. Accuracy of the measuring device shall be acceptable to the Engineer. If the television camera will not pass through the entire manhole section during the inspection operation, the equipment shall be set up so that the inspection can be performed from the opposite manhole. When manually operated winches are used to pull the television camera through the line, telephones or other suitable means of communication shall be set up between the two manholes of the section being inspected to ensure good communication between members of the crew.

The CCTV inspection logs shall include printed location records clearly showing the location, in relation to an adjacent manhole of each defect observed during inspection and other points of significance such as locations of lateral connections, unusual conditions, roots, storm sewer connections, broken pipe, cracks, offset joints, and presence of scale, corrosion, deposits, and other discernible features.

Data collection shall conform to National Association of Sewer Service Companies (NASSCO) Standards.

The DVD video recordings shall include color video and audio record documenting the CCTV inspection. The recording shall contain a visual and audio record of the problem areas of pipes that may be replayed. Video recording playback shall be at the same speed that it was recorded. Slow motion or stop-motion playback features may be supplied at the option of the Contractor.

The Contractor shall provide the Engineer with daily work reports, including the number of linear feet of CCTV inspection, and locations of inspections. The Contractor shall verify that all locations have been inspected with the Engineer, and submit two copies of the CCTV inspection logs and DVD video recordings.

For pipelines, the Contractor shall use the appropriate data collection software to capture and record information pertaining to the pipeline. The use of data fields and formats consistent with the PACP specification is required. At a minimum, the following information for each connecting pipeline must be included:

1. Location of pipe using street name or physical location (park, railroad right-of-way, etc.)
2. Pipeline identification number
3. Inspection date and weather condition
4. Type of pipe (sanitary, storm, combined, etc.)
5. Depth of pipe invert
6. Shape, diameter and material of pipe
7. Flow direction
8. Deficiencies observed
9. Presence and/or evidence of infiltration/inflow
10. Type and approximate depth of debris
11. Depth of flow
12. Liner presence

Video inspections will be recorded on electronic media in MPEG format video files, named and indexed for easy GIS retrieval. Photos of major observed defects will be captured in JPEG format.

For manholes, the Contractor shall conform to the following standard and use the appropriate data collection software to capture and record information pertaining to the manhole:

http://www.nassco.org/publications/specs/spec_guidelines/manhole-inframatrix.PDF

The use of data fields and formats consistent with MACP specification is required. At a minimum, the following information must be included:

1. Manhole identification number
2. Location of manhole using closest address and street name

3. Inspection date and weather condition
4. Type of manhole (sanitary, storm, combined, etc.)
5. Manhole environment (abnormal features, detected gases, etc.)
6. Surface type (asphalt, grass, etc.)
7. Shape, dimension, material and type of cover, frame and chimney
8. Rim height or depression from roadway surface measured by placing a straight edge over manhole frame
9. Material, depth and diameter of riser, extension rings
10. Material and diameter of manhole barrel
11. Material of bench, invert or floor
12. Deficiencies observed on the ground surface, cover, frame, chimney, cone, walls, bench, invert and steps
13. Presence and/or evidence of infiltration and/or inflow
14. Additional connections to the manhole other than those indicated on the plan
15. Look for the presence of lining and record type if applicable
16. Validate function and sub-function of main sewer line
17. Depth of flow
18. Type and approximate depth of debris
19. Approximate depths measured to all pipeline connection inverts from the rim
20. Interconnections from non-State (i.e. Municipal or Private) drainage systems
21. GPS Coordinates of structure Latitude/Longitude in Decimal Degrees, using WGS 84 datum or Rhode Island State Plane Feet Nad 83 datum (reference system must be identified)

Inspection and Maintenance Catch Basins, Manholes, and Inlets

Street: _____ Route #: _____ N S E W _____ Town: _____ Date: _____
Circle One

Crew: _____ Drainage System No.: _____ Amount Hauled: _____ TONS: _____ # LOADS: _____
GPS UNIT: Garmin e-trex

Note conditions BEFORE maintenance is performed

Structure ID or GPS Coordinates	Grate Clogged		Basin Clogged		Pipes Clogged		Sediment Sediment is within 6" of lowest visible pipe (✓ if Yes)	Contamination Evidence of oil, gas, contaminants or other pollutants (✓ if Yes)	Flooding Structure causes street flooding (✓ if Yes)	Dry Weather Discharge Flowing water visible (✓ if Yes)	Overall Condition	Maint Performed	More Maint Req'd?	Inter-connection
	Vegetation	Trash	Sediment	(leave empty if none)	% FULL (0%, 25%, 50%, 75%, 100%)									
N: 41.69101	V, S	S	S	S			75%	Evidence of oil, gas, contaminants or other pollutants (✓ if Yes)	Structure causes street flooding (✓ if Yes)	Flowing water visible (✓ if Yes)	Good	Structo Vactor Repair <small>(leave empty if none)</small>	✓ if Yes	State Municipal Private
W: -71.27938	Needs to be jettied; interconnection - house owner of 1234 Main St; last rain event > 1-week ago													
N:														
W:	Comment: %													
N:														
W:	Comment: %													
N:														
W:	Comment: %													
N:														
W:	Comment: %													
N:														
W:	Comment: %													

Structure ID or GPS Coordinates	Grate Clogged	Basin Clogged	Pipes Clogged	Sediment		Contamination Evidence of oil, gas, contaminants or other pollutants (✓ if Yes)	Flooding Structure causes street flooding (✓ if Yes)	Dry Weather Discharge Flowing water visible (✓ if Yes)	Overall Condition <u>G</u> ood <u>F</u> air <u>P</u> oor <u>U</u> nsound	Maint Performed <u>S</u> pecto <u>V</u> actor <u>R</u> epair (leave empty if none)	More Maint Req'd?	Inter- connection <u>S</u> tate <u>M</u> unicipal <u>P</u> rivate
				Sediment is within 6" of lowest visible pipe (✓ if Yes)	% FULL (<u>0</u> %, <u>25</u> %, <u>50</u> %, <u>75</u> %, <u>100</u> %)							
N:												
6	W:	Comment:				%						
N:												
7	W:	Comment:				%						
N:												
8	W:	Comment:				%						
N:												
9	W:	Comment:				%						
N:												
10	W:	Comment:				%						

SYSTEM COMMENTS:

Inspection and Maintenance Catch Basins, Manholes, and Inlets

Street: Hope St Route #: 116 Town: Bristol Date: 9/12/2012

Crew: lorenzo/duck Drainage System No.: _____ Amount Hauled: _____ TONS: _____ # LOADS: _____

Note conditions BEFORE maintenance is performed

Structure ID or GPS Coordinates	Grate Clogged		Basin Clogged		Pipes Clogged		Sediment		Contamination Evidence of oil, gas, contaminants or other pollutants (✓ if Yes)	Flooding Structure causes street flooding (✓ if Yes)	Dry Weather Discharge Flowing water visible (✓ if Yes)	Overall Condition	Maint Performed	More Maint Req'd?	Inter- connection		
	Vegetation, Trash, Sediment (leave empty if none)	empty if none	Sediment is within 6" of lowest visible pipe (✓ if Yes)	% FULL (0%, 25%, 50%, 75%, 100%)													
1 41.68748	T,V						50%				✓	G	S	✓ if Yes	State Municipal Private		
-71.27908	Comment:																
2 41.68786	T,V											G	S				
-71.27933	Comment:	MUSHROOM GRATE															
3 41.68817	V											G	S				
-71.27918	Comment:																
4 41.68893							25%					F		✓			
-71.27916	Comment:																
5 41.68994	T,V						25%					G			M		
-71.27938	Comment:	INTERCONNECTS WITH BRISTOL															
6 41.69101		T	V				50%					G		✓			
-71.27938	Comment:	NEEDS TO BE JETTED															

Structure ID or GPS Coordinates	Grate Clogged	Basin Clogged	Pipes Clogged	Sediment		Contamination Evidence of oil, gas, contaminants or other pollutants (✓ if Yes)	Flooding Structure causes street flooding (✓ if Yes)	Dry Weather Discharge Flowing water visible (✓ if Yes)	Overall Condition	Maint Performed	More Maint Req'd?	Inter- connection
				Sediment is within 6" of lowest visible pipe (✓ if Yes)	% FULL (0%, 25%, 50%, 75%, 100%)							
7												
41.69178					75%							
-71.7939	Comment:											
41.69291	V				50%							
-71.27956	Comment:			INTERCONNECTS WITH BRISTOL								
41.69339	T,V				50%							
-71.27948	Comment:											
41.68195	T,V	T	V		100%		✓	✓				
-71.27874	Comment:											
41.68166	T,V	T	V		50%							
-71.27877	Comment:											
41.68181	T,V	T	V		50%							
-71.27882	Comment:											
41.68308	T,V	T	V		50%							
-71.27894	Comment:											
41.68588	T,V				25%							
-71.27905	Comment:											
41.6867					50%							
-71.27907	Comment:											

Inspection and Maintenance
Catch Basins, Manholes, and Inlets

ONE DATASHEET SHOULD BE STARTED FOR EACH STREET

ONE DATASHEET SHOULD BE STARTED FOR EACH DATE

Street: State Roadway - Include Road Name & Route #
Town: Rhode Island City Or Town
Date: Date Of Inspection And Maintenance
Crew: Inspection/Maintenance Crew
Drainage System No.: System Identification - Leave Blank If Unknown
Amount Hauled: Include Total Amount Hauled In Tons &/Or Loads
Structure ID or GPS Coordinates Provide Either Structure ID Or GPS Coordinates

NOTE CONDITION BEFORE MAINTENANCE IS PERFORMED

Grate Clogged Basin Clogged Pipes Clogged	Write First Letter Of <u>V</u> egetation, <u>T</u> rash, <u>S</u> ediment in each box if blockage is present; Leave Empty If No Blockage Exists
Sediment	Check Box If Sediment Is Within 6" Of Lowest Pipe How Full Is The Basin With Sediment 0%, 25%, 50%, 75%, 100% (Do Not Leave Empty)
Contamination	Check Box If There Is Evidence Of Oil, Gas, Contaminants, Or Other Pollutants
Flooding	Check Box If Structure Is Known To Cause Street Flooding
Dry Weather Discharge	Check Box If Flowing Water (Not Rain) Is Visible
Overall Condition	Write First Letter Of Good, Fair, Poor, Unsound To Describe Overall Condition Of Structure
Maint Performed	Write First Letter Of Stcto, Vactor, Repair To Describe Maintenance Performed; Leave Empty If No Work Was Performed; Add Comment If Required
More Maint Req'd?	Check Box If More Maintenance Is Required; Include Work Required In Comment Section
Inter-connection	Write First Letter Of State, Municipal, Private To Describe If There Is A Non-Ridot Pipe Connected To Structure; Leave Empty If No Connection; Include Owner In Comment Section If Possible
Comment	Write In Any Comment About Structure
System Comment	Write in any comment about entire system

Asset Management

Catch Basins, Manholes, and Inlets

Date: _____

STRUCTURE ID: _____

Inspectors: _____

Road: _____

City/Town: _____

Descriptive Location:

include house #,
utility pole, mile
marker, intersection +
distance/direction

GPS Location: N: _____

W: _____

Accuracy: _____

STRUCTURE (document the structure characteristics)							CIRCLE ONE
Size	Structure Depth	Sump Depth	Structure Material	Type	Grate Type	Bottom Type	
INCHES <u>Diameter or Length/Width</u> Rnd: _____ Sqr: L: _____	INCHES from Grate to bottom of structure _____	INCHES from lowest pipe to bottom of structure _____	PreCast Brick Block Other	Grate Curb Inlet Curb Inlet w/ Grate Double Grate Access Other	None High Capacity Bicycle Safety Other	Open Weep Other	
<i>Comment:</i>							

PIPES (document the pipes entering and exiting the structure)				
Flows From or Flows To	Diameter	Invert	Material	
Structure ID	In / Out	INCHES	INCHES from Grate to bottom of pipe	<u>Clay, RCP, Concrete, Asbestos Cement, Orangeburg, Corrugated Metal, Cast Iron, Ductile Iron, HDPE, PVC, Other</u>
1				
2				
3				
4				
<i>Comment:</i>				

INTERCONNECTION (pipes owned by others)						
Circle One:	None	State	Municipal	Private	Sewer	Other
<i>List owner:</i>						
<i>Comment:</i>						

OUTFALL (ultimate discharge point)						CIRCLE ONE
Ultimate Outfall ID	Outfall Type	Swale	Flows to	Est. distance to water	Ultimate receiving waterbody name	
	Flared End Pipe End Headwall Other	Vegetated RipRap Paved None	Overland Waterbody			
<i>Comment:</i>						

MAINTENANCE (circle/describe any concerns)

Vector Truck
Required

Extra Traffic
Control Required

Has Stairs

Confined Space
Cert Needed

Other:

DIAGRAM (sketch birds-eye view of structure)

Be sure to include:

All pipes

Pipe #s

Street

Stairs

Other CB IDs

North ↑

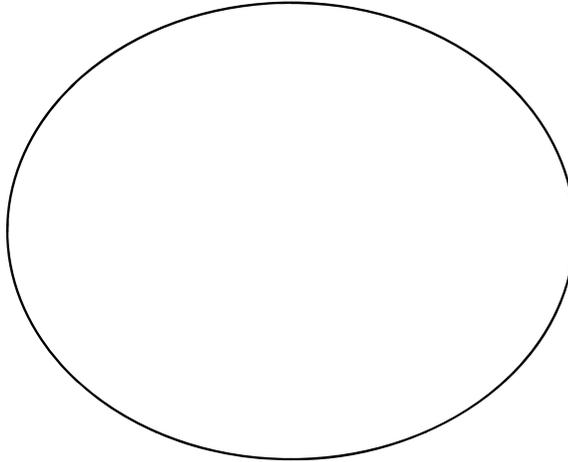


PHOTO DATE / TIME

Asset Management

Catch Basins, Manholes, and Inlets

Date: 9/20/2012

STRUCTURE ID: _____

Inspectors: Hamel/Gallant

Road: Hope St

City/Town: Bristol

Route #: 116 S

Descriptive Location: across from 1234 Hope St; next to UP 987

include house #,
utility pole, mile
marker, etc

GPS Location: N: 41.68748

W: -71.27908

Accuracy: 12 ft

STRUCTURE (document the structure characteristics)						
						CIRCLE ONE
Size	Structure Depth	Sump Depth	Structure Material	Type	Grate Type	Bottom Type
INCHES Diameter or Length/Width	INCHES from Grate to bottom of structure	INCHES from lowest pipe to bottom of structure	PreCast Brick Block Other	Grate Curb Inlet Curb Inlet w/ Grate Double Grate Access Other	None High Capacity Bicycle Safety Other	Open Weep Other
Rnd: _____ Sqr: L: <u>24"</u> W: <u>24"</u>	<u>84"</u>	<u>36"</u>				
Comment: _____						

PIPES (document the pipes entering and exiting the structure)				
Flows From or Flows To	Diameter	Invert	Material	
Structure ID	In / Out	INCHES	INCHES from Grate to bottom of pipe	Clay, RCP, Concrete, Asbestos Cement, Orangeburg, Corrugated Metal, Cast Iron, Ductile Iron, HDPE, PVC, Other
1 <u>3699</u>	<u>IN</u>	<u>12"</u>	<u>40"</u>	<u>RCP</u>
2 <u>3697</u>	<u>OUT</u>	<u>12"</u>	<u>48"</u>	<u>RCP</u>
3 <u>Town</u>	<u>IN</u>	<u>12"</u>	<u>40"</u>	<u>RCP</u>
4				
Comment: _____				

INTERCONNECTION (pipes owned by others)						
Circle One:	None	State	Municipal	Private	Sewer	Other
List owner: <u>BRISTOL</u>						
Comment: _____						

OUTFALL (ultimate discharge point)					
					CIRCLE ONE
Ultimate Outfall ID	Outfall Type	Swale	Flows to	Est. distance to water	Ultimate receiving waterbody name
<u>unknown town outfall</u>	Flared End Pipe End Headwall Other	Vegetated RipRap Paved None	Overland Waterbody	<u>> 1000- feet</u>	<u>Mill Pond</u>
Comment: _____					

MAINTENANCE (circle/describe any concerns)

Vector Truck
Required

Extra Traffic
Control Required

Has Stairs

Confined Space
Cert Needed

Other:

DIAGRAM (sketch birds-eye view of structure)

Be sure to include:
All pipes
Pipe #s
Street
Stairs
Other CB IDs

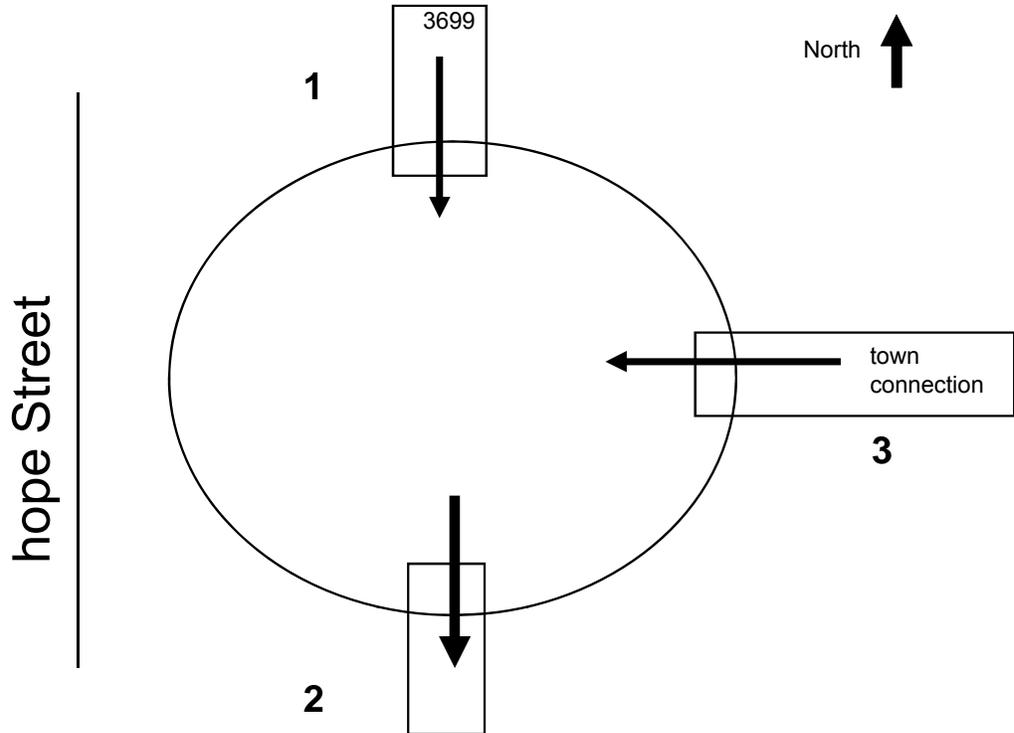


PHOTO DATE / TIME

Photo #3; 9/20/12 @ 10:42 am

Asset Management

Catch Basins, Manholes, and Inlets

One form should be filled out for each structure

INSPECTION INFORMATION

Date: DATE OF INSPECTION
 PROVIDE UNIQUE STRUCTURE ID; LEAVE BLANK IF
 STRUCTURE ID: UNKNOWN
 Inspectors: INSPECTION CREW
 Road: STATE ROADWAY -INCLUDE ROAD NAME & ROUTE #
 City/Town: RHODE ISLAND CITY OR TOWN
 Provide location information: include house #, utility pole, mile
 Descriptive Location: marker, intersection + distance/direction, etc
 GPS Location: PROVIDE GPS COORDINATES

STRUCTURE (document the structure characteristics)

Size Document size of structure by providing diameter (if round) or Length/Width (if square/rectangle)
 Structure Depth INCHES from Grate to bottom of structure
 Sump Depth INCHES from lowest pipe to bottom of structure
 Type Circle Structure Type: Grate, Curb Inlet, Curb inlet with Grate, Double Grate, Access M-anhole, Other
 Grate Type Circle Grate Type: None, High Capacity, Bike Safety, Other
 Structure Material Circle Structure Material: Precast, Brick, Block, Other
 Bottom Type Circle Bottom Type if Known: Open, Weep, Other
 Comment If any item is OTHER, please note

PIPES (document the pipes entering and exiting the structure)

Structure ID Provide STRUCTURE ID if known
 In / Out Does water flow IN to the structure, or OUT of the structure via the pipe?
 Diameter Provide PIPE diameter in INCHES
 Invert PROVIDE INCHES from Grate to bottom of pipe
 Material Provide PIPE Material: Clay, RCP, Concrete, Asbestos Cement, Orangeburg, Corrugated Metal, Cast Iron, Ductile Iron, HOPE, PVC, Other
 Comment: Provide any comment on pipes

INTERCONNECTION (pipes owned by others)

Inter-Connection

Interconnection Type Circle Interconnection Type: None, State, Municipal, Private, Sewer, Other

Owner of
Interconnection
Comment

ID an owner if possible (OWNER OF HOUSE/BUSINESS @
123
Main st

OUTFALL (ultimate discharge point)

Ultimate OutfallID Provide information on the outfall, if known

CIRCLE type of Outfall: Flared End, Pipe End, Headwall,
Other

Outfall Type

Swale

CIRCLE Swale Type: Vegetated, RipRap, Paved, None

Flows to

CIRCLE flow: Overland; Direct to Waterbody

Est. distance to water

Estimate the distance to the water

Ultimate receiving water

List the wwaterbody name the outfall flows to

MAINTENANCE (circle/describe any concerns)

Diagram

Concern Type | Circle or Describe any mainenentance concern

DIAGRAM (sketch birds-eye view of structure)

Diagram

Provide general information on the structure

All pipes

Pipe #s FROM FRONT PAGE -PIPES SECTION

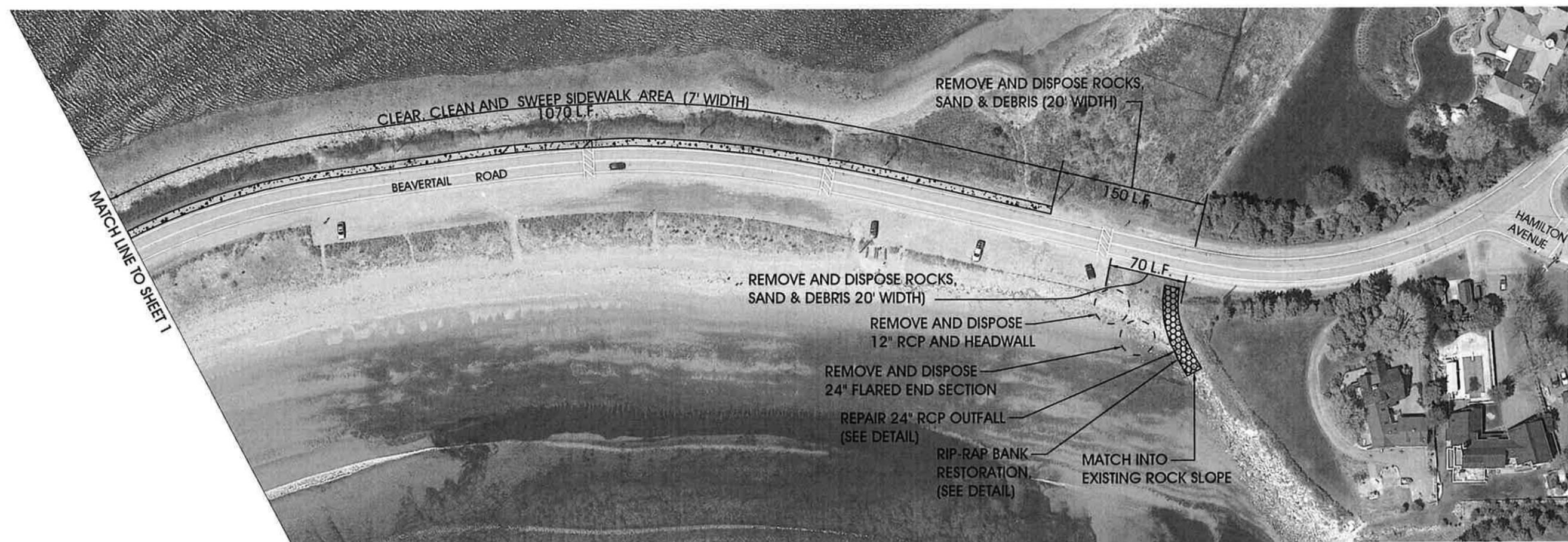
Street

Stairs

Other CB IDs

PHOTO DATE / TIME

If photo was taken, provdide Make sure camera DATE/TIME STAMP is turned 'on'



• Civil
 • Transportation
 • Environmental
 • Site Planning
 • Land Surveying

CROSSMAN ENGINEERING
 151 Centerville Road | Warwick, Rhode Island 02886
 Phone: (401) 738-5660 | Fax: (401) 738-8157
 Email: cel@crossmaneng.com

RHODE ISLAND DEPARTMENT OF TRANSPORTATION	
HURRICANE SANDY DAMAGE REPAIRS TO BEAVERTAIL ROAD GENERAL PLAN NO. 02	
JAMESTOWN	RHODE ISLAND
DATE: NOVEMBER, 2012	SCALE: 1" = 100'
SHEET 2 OF 6	



LEGEND

 CLEAN, FLUSH AND VIDEO DRAINAGE SYSTEM

QUANTITIES

3 EA. CCB
 0 EA. CMH
 54 L.F. CFP



- Civil
- Transportation
- Environmental
- Site Planning
- Land Surveying

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RHODE ISLAND DEPARTMENT OF TRANSPORTATION	
HURRICANE SANDY DAMAGE REPAIRS TO BEAVERTAIL ROAD CLEAN, FLUSH AND VIDEO PLAN NO. 01	
JAMESTOWN	RHODE ISLAND
DATE: NOVEMBER, 2012	SCALE: 1" = 100'
SHEET 3 OF 6	



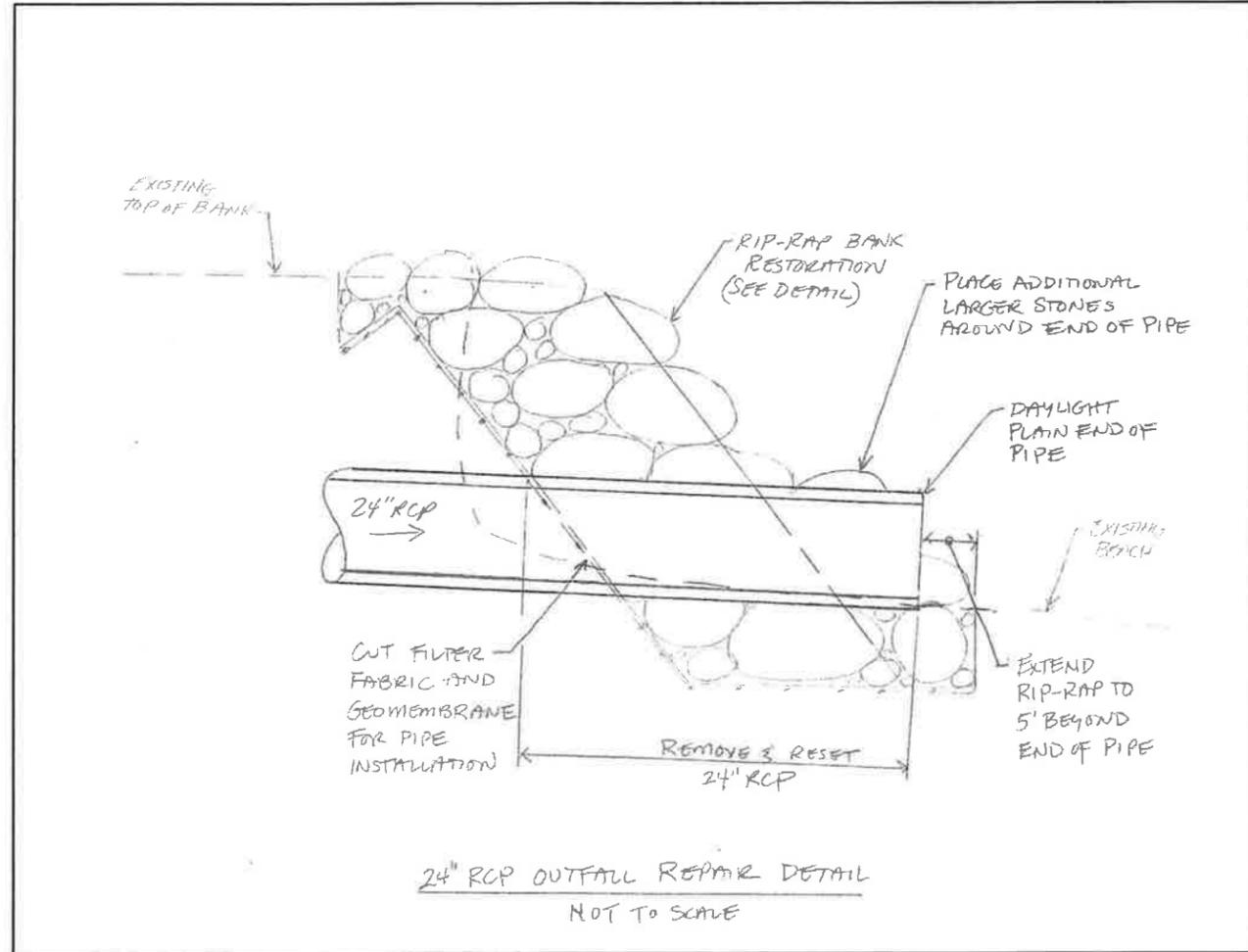
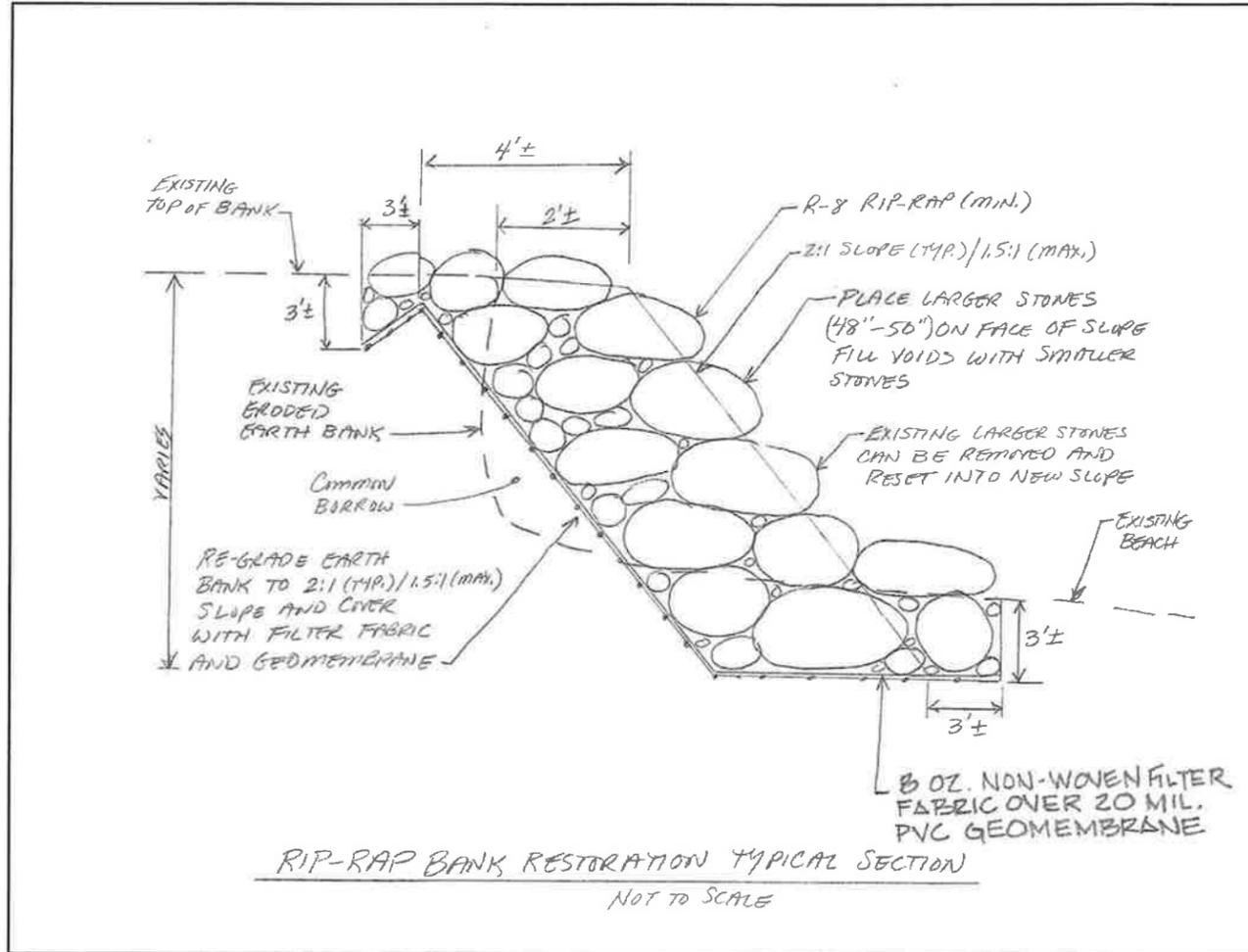
LEGEND

 CLEAN, FLUSH AND VIDEO DRAINAGE SYSTEM

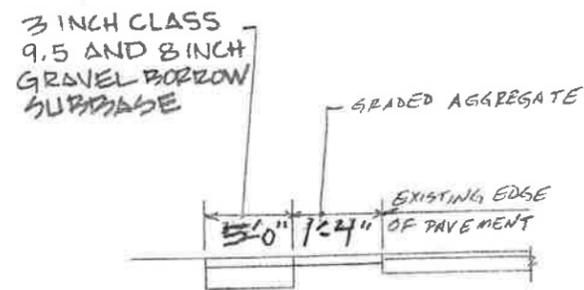
QUANTITIES

0 EA. CCB
 2 EA. CMH
 120 L.F. CFP

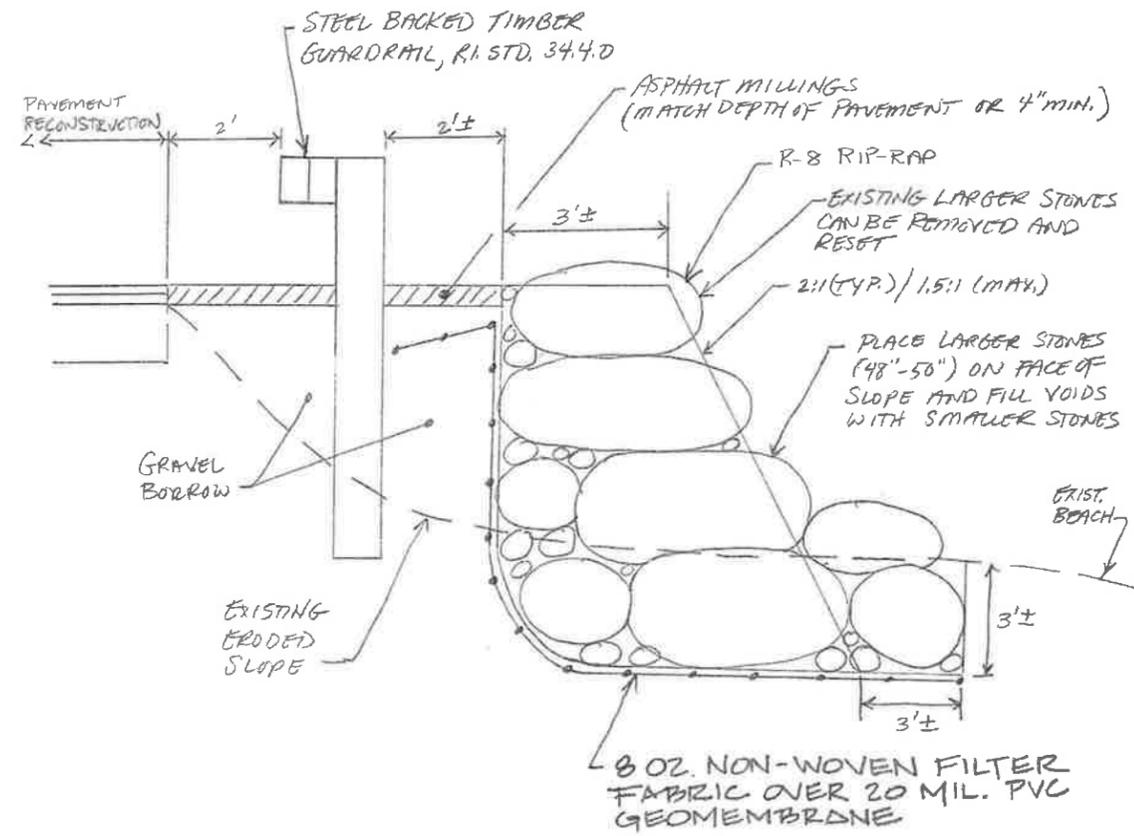
 <ul style="list-style-type: none"> • Civil • Transportation • Environmental • Site Planning • Land Surveying <p>CROSSMAN ENGINEERING 151 Centerville Road Warwick, Rhode Island 02886 Phone: (401) 738-5660 Fax: (401) 738-8157 Email: cel@crossmaneng.com</p>	RHODE ISLAND DEPARTMENT OF TRANSPORTATION	
	HURRICANE SANDY DAMAGE REPAIRS TO BEAVERTAIL ROAD CLEAN, FLUSH AND VIDEO PLAN NO. 02 JAMESTOWN RHODE ISLAND	
	DATE: NOVEMBER, 2012	SCALE: 1" = 100'
	SHEET 4 OF 6	



 <ul style="list-style-type: none"> • Civil • Transportation • Environmental • Site Planning • Land Surveying <p>CROSSMAN ENGINEERING 151 Centerville Road Warwick, Rhode Island 02886 Phone: (401) 738-5660 Fax: (401) 738-8157 Email: ce@crossmaneng.com</p>	<p>RHODE ISLAND DEPARTMENT OF TRANSPORTATION</p>	
	<p>HURRICANE SANDY DAMAGE REPAIRS TO BEAVERTAIL ROAD</p>	
	<p>JAMESTOWN</p>	<p>RHODE ISLAND</p>
	<p>DATE: NOVEMBER, 2012 SCALE: NTS</p>	
<p>SHEET 5 OF 6</p>		



SIDEWALK DETAIL



ROADWAY SLOPE RESTORATION DETAIL
NOT TO SCALE

- Civil
- Transportation
- Environmental
- Site Planning
- Land Surveying

CROSSMAN ENGINEERING
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 Email: cel@crossmaneng.com

RHODE ISLAND
 DEPARTMENT OF TRANSPORTATION

HURRICANE SANDY DAMAGE
 REPAIRS TO BEAVERTAIL ROAD

JAMESTOWN RHODE ISLAND

DATE: NOVEMBER, 2012 SCALE: NTS

SHEET 6 OF 6























HURRICANE SANDY DAMAGE INVENTORY

CITY OF EAST PROVIDENCE

NOVEMBER 26, 2012

#125 WARREN AVENUE

HRS-022

The sidewalk was damaged during the storm when a tree was uprooted.

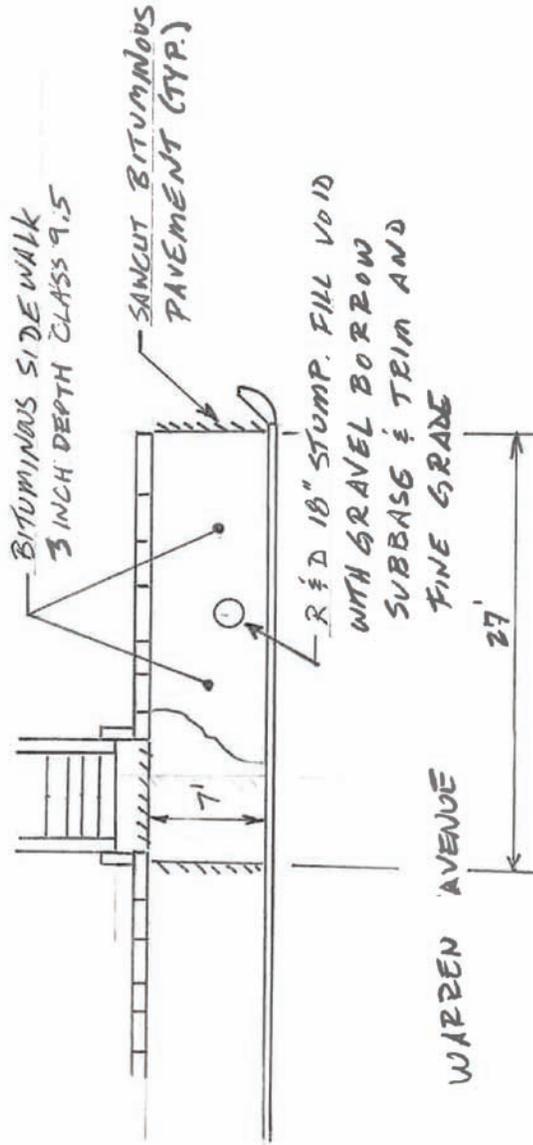
The repair of the sidewalk shall follow the attached sketch and include the following:

- Remove and dispose existing bituminous sidewalk
- Remove and dispose stump
- Sawcut bituminous sidewalk
- Place new gravel borrow to fill void from stump removal
- Install bituminous sidewalk: 3 inches Class 9.5, 8 inches gravel borrow subbase, trimming and fine grading
- Traffic Control shall conform to the 2009 Manual on Uniform Traffic Control Devices and attached temporary traffic control setups.

The limits of work are identified on the sketch.

HRS - 022

LOCATED ON SOUTH SIDE OF
WARREN AVE, EAST PROVIDENCE,
WEST OF SEVENTH ST.



RIC 2013-DF-039

RHODE ISLAND
DEPARTMENT OF TRANSPORTATION

HURRICANE SANDY
DAMAGE REPAIRS

STATEWIDE

RHODE ISLAND

125 WARREN AVE, EAST PROVIDENCE



CROSSMAN ENGINEERING

151 Centerville Road | Warwick, Rhode Island 02886

CHECKED BY _____

DATE _____

SCALE NTS



HURRICANE SANDY DAMAGE INVENTORY

TOWN OF WEST WARWICK NOVEMBER 26, 2012

#199 WASHINGTON STREET

HRS-023

The sidewalk was damaged during the storm when a tree was uprooted.

The repair of the sidewalk shall follow the attached sketch and include the following:

- Remove and dispose existing concrete sidewalk
- Remove and dispose stump
- Sawcut concrete sidewalk
- Place new gravel borrow for new sidewalk and to fill void from stump removal
- Remove, handle, haul, trim, reset curb edging, straight, circular all types
- Install new wheelchair ramp stone RI Standard 7.3.9
- Construct new Portland cement concrete sidewalk, including trimming and fine grading
- Reshape wheelchair ramp and provide cast-iron detectable warning panel, RI Standard 48.1.0
- Sawcut bituminous pavement and rigid base adjacent to reset curb and new ramp stone
- Remove and dispose flexible pavement and rigid base adjacent to reset curb and new ramp stone
- Install concrete curb lock Class XX adjacent to reset curb and new ramp stone
- Install new Class 12.5 adjacent to reset curb and new ramp stone
- Traffic Control shall conform to the 2009 Manual on Uniform Traffic Control Devices and attached temporary traffic control setups.

The limits of work are identified on the sketch.

HRS - 023

CONTRACTOR IS TO RECONSTRUCT WHEEL CHAIR RAMP ACCORDING TO R.I. STD. 43.3.0

DETECTABLE WARNING PANEL (R.I. STANDARD 48.1.0)

ROGER'S PAINT # 199

BITUMINOUS PARKING LOT SAWCUT CONCRETE SIDEWALK

CONCRETE SIDEWALK

PORTLAND CEMENT CONCRETE SIDEWALK (R.I. STD. 43.1.0)

REMOVE AND DISPOSE 12 INCH STUMP, FILL VOID WITH GRAVEL BORROW SUBBASE AND TRIM AND FINE GRADE

REMOVE, HANDLE, HAUL, TRIM, RESET CURBS EDGING, STRAIGHT, & CIRCULAR, ALL TYPES

THE CONTRACTOR SHALL UTILIZE R.I. STANDARD 7.6.0, "CURB SETTING DETAIL" WHEN RESETTING AND INSTALLING GRANITE CURBS.

LOCATED ON THE NORTH SIDE OF WASHINGTON STREET, WEST WARWICK, R.I., ADJACENT TO OTTAWA STREET

- REMOVE AND DISPOSE FLEXIBLE PAVEMENT AND RIGID BASE
- MODIFIED CLASS 12.5 CLASS XX PORTLAND CEMENT CONCRETE

OTTAWA STREET

12 INCH EPOXY RESIN PAVT. MARKINGS - WHITE

SAWCUT BIT. PAVEMENT AND RIGID BASE

GRANITE RAMP STONE, (R.I. STD. 7.3.9)

WASHINGTON STREET

RIC 2013-DF-039

RHODE ISLAND DEPARTMENT OF TRANSPORTATION

HURRICANE SANDY DAMAGE REPAIRS

STATEWIDE

RHODE ISLAND



CROSSMAN ENGINEERING

151 Centerville Road | Warwick, Rhode Island 02886

199 WASHINGTON ST, WEST WARWICK

CHECKED BY _____

DATE _____

SCALE _____ NTS _____



