

Solicitation Information

BID # 7458349

TITLE: 2013-DF-051 HURRICANE –CLEANING, FLUSHING, AND VIDEO DRAINAGE STRUCTURES & PIPES

Submission Deadline: THURSDAY 12/18/12 – 10:30 A.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

PRE-BID: NONE

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-051

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-028 \$ _____

HRS-030 \$ _____

HRS-031 \$ _____

HRS-032 \$ _____

HRS-033 \$ _____

HRS-074 \$ _____

HRS-075 \$ _____

\$ _____

NUMERICAL

\$ _____

WRITTEN WORDS

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

RHODE ISLAND DIVISION OF PURCHASES
HURRICANE SANDY BID PROPOSAL FORM

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
TRANSPORATION AS THE ADDITIONAL INSURED.

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)

1. Type of Federal Action: <input type="checkbox"/> a. contract <input type="checkbox"/> b. grant <input type="checkbox"/> c. cooperative agreement <input type="checkbox"/> d. loan <input type="checkbox"/> e. loan guarantee <input type="checkbox"/> f. loan insurance	2. Status of Federal Action: <input type="checkbox"/> a. bid/offer/application <input type="checkbox"/> b. initial award <input type="checkbox"/> c. post-award	3. Report Type: <input type="checkbox"/> a. initial filing <input type="checkbox"/> b. material change For Material Change Only: year _____ quarter _____ date of last report _____
4. Name and Address of Report Entity: <input checked="" type="checkbox"/> Prime <input type="checkbox"/> Subawardee Tier ____, if known: Congressional District, if known: _____		5. If Reporting Entity in No. 4 is Subawardee, Enter Name and Address of Prime: Congressional District, if known: _____
6. Federal Department Agency:	7. Federal Program Name/Description: CFDA Number, if applicable: _____	
8. Federal Action Number, if known:	9. Award Amount, if known: \$ _____	
10. a. Name and Address of Lobbying Entity: (if individual, last name, first name, mi): _____	10. b. Individuals Performing Services (including address if different from No. 10a) (last name, first name, mi): _____	
11. Amount of Payment (check all that apply) \$ _____ <input type="checkbox"/> actual <input type="checkbox"/> planned	13. Type of Payment (check all that apply): <input type="checkbox"/> a. retainer <input type="checkbox"/> b. one-time fee <input type="checkbox"/> c. commission <input type="checkbox"/> d. contingent fee <input type="checkbox"/> e. deferred <input type="checkbox"/> f. other; specify: _____	
12. Form of Payment (check all that apply): <input type="checkbox"/> a. cash <input type="checkbox"/> b. in-kind; specify: nature _____ value _____		
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): <div style="height: 40px;"></div>		
15. Continuation Sheet(s) SF-LLL-A attached: <input type="checkbox"/> yes <input checked="" type="checkbox"/> no		
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.		Signature: _____ Print Name: _____ Title: _____ Telephone No: _____ Date: _____
For Federal use Only:		Authorized for Local Reproduction Standard Form - LLL-A

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.

RE: _____

I, _____ hereby certify as follows:

I am employed as a _____ of _____
[TITLE] [COMPANY]
and to the best of my knowledge:

☐ **I have no family or personal relations currently employed either on a full-time or part-time basis at the Rhode Island Department of Transportation.**

☐ **I do have family or personal relations currently employed at the Rhode Island Department of Transportation. Please list their name(s), title(s), and RIDOT Division(s) (if known):**

NAME	TITLE	RIDOT DIVISION

FOR ILLUSTRATIVE PURPOSES, FAMILY RELATIONS SHALL INCLUDE, WHETHER BY BLOOD, ADOPTION OR MARRIAGE, ANY OF THE FOLLOWING RELATIONSHIPS:

❖ *If you are unsure whether a relationship, association, or connection you have may need to be disclosed, please consult with RIDOT's Legal Office at (401) 222-6510.*

DATE _____

This document is used for internal RIDOT purposes only in order to address and avoid any potential conflicts at the inception of the contract process and to avoid any impropriety or the appearance of impropriety during the contract process. Any disclosures made hereto will not prejudice prospective vendors from selection.

**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-051
Hurricane Sandy
Cleaning, Flushing, and Video Drainage Structures and Pipes

OCEAN ROAD IN NARRAGANSETT
(HRS-028 attached)

SAND HILL COVE ROAD IN NARRAGANSETT
(HRS-030 attached)

PARK AVENUE IN PORTSMOUTH
(HRS-031 attached)

SUCCOTASH ROAD IN SOUTH KINGSTOWN
(HRS-032 attached)

MEMORIAL BOULEVARD IN NEWPORT
(HRS-033 attached)

NEW MEADOW ROAD IN BARRINGTON
(HRS-074 attached)

SOWAMS ROAD IN BARRINGTON
(HRS-075 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-028, HRS-030, HRS-031, HRS-032, HRS-033, HRS-074, and HRS-075 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.

Contractor shall include test pits in lump sum price per site.

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.

Examples of the asset management datasheets are attached for your information. The electronic spreadsheets and access database will be provided to the low bidder.

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 temporary traffic control setups.

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.

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 #:

Town:

Date:

N

S

E

W

Circle One

Drainage System No.:

Amount Hauled:

TONS:

LOADS:

GPS UNIT:

Garmin e-trex

Structure ID or GPS Coordinates		Grate Clogged	Basin Clogged	Pipes Clogged	Sediment		Contamination	Flooding	Dry Weather Discharge	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%)	Evidence of oil, gas, contaminants or other pollutants (✓ if Yes)	Structure causes street flooding (✓ if Yes)	Flowing water visible (✓ if Yes)	Good Fair Poor Unsound	Stecto Vactor Repair (leave empty if none)	✓ if Yes	State Municipal Private
N:	41.69101	V, S	S	S	✓	75%				G	S		
W:	-71.27938	Needs to be jetted; interconnection - house owner of 1234 Main St; last rain event > 1-week ago											
N:	1					%							
W:		Comment:											
N:	2					%							
W:		Comment:											
N:	3					%							
W:		Comment:											
N:	4					%							
W:		Comment:											
N:	5					%							
W:		Comment:											

	Structure ID or GPS Coordinates	Grate Clogged	Basin Clogged	Pipes Clogged	Sediment		Contamination	Flooding	Dry Weather Discharge	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%)	Evidence of oil, gas, contaminants or other pollutants (✓ if Yes)	Structure causes street flooding (✓ if Yes)	Flowing water visible (✓ if Yes)	<u>Good</u> <u>Fair</u> <u>Poor</u> <u>Unsound</u>	<u>S</u> tructo <u>V</u> actor <u>R</u> epair (leave empty if none)	✓ if Yes	<u>S</u> tate <u>M</u> unicipal <u>P</u> rivate
	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 N S E W 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	Flooding	Dry Weather Discharge	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%)	Evidence of oil, gas, contaminants or other pollutants (✓ if Yes)	Structure causes street flooding (✓ if Yes)	Flowing water visible (✓ if Yes)	Good Fair Poor Unsound	Stecto Vactor Repair (leave empty if none)	✓ if Yes	State Municipal Private
1	41.68748	T,V						50%			✓	G	S		
	-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	Flooding	Dry Weather Discharge	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%)							
						Evidence of oil, gas, contaminants or other pollutants (✓ if Yes)	Structure causes street flooding (✓ if Yes)	Flowing water visible (✓ if Yes)	<u>Good</u> <u>Fair</u> <u>Poor</u> <u>Unsound</u>	<u>S</u> tructo <u>V</u> actor <u>R</u> epair (leave empty if none)	✓ if Yes	<u>S</u> tate <u>M</u> unicipal <u>P</u> rivate
7					75%				G			
	Comment:											
8	V				50%				G	S		M
	Comment:											
				INTERCONNECTS WITH BRISTOL								
9	T,V				50%				G			
	Comment:											
10	T,V	T	V		100%		✓	✓	F			
	Comment:											
11	T,V	T	V		50%				G			
	Comment:											
12	T,V	T	V		50%				G			
	Comment:											
13	T,V	T	V		50%				G			
	Comment:											
14	T,V				25%				G			
	Comment:											
15					50%				G			
	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	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
Basin Clogged	
Pipes Clogged	
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, Municpal, 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 Diameter or Length/Width 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

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			
2			
3			
4			

Comment: _____

INTERCONNECTION (pipes owned by others)

Circle One:	None	State	Municipal	Private	Sewer	Other
-------------	------	-------	-----------	---------	-------	-------

List owner: _____

Comment: _____

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		

Comment: _____

MAINTENANCE (circle/describe any concerns)

Vactor 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

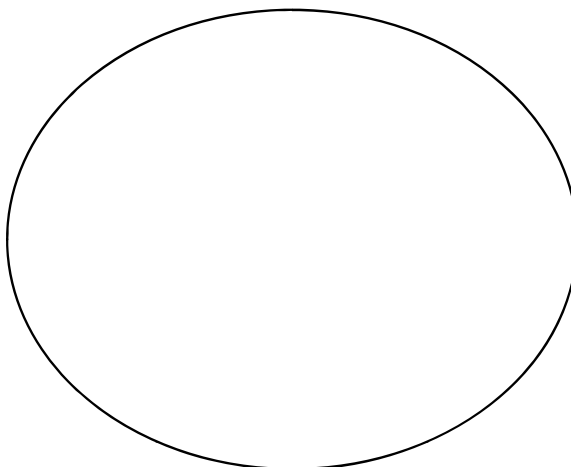


PHOTO DATE / TIME

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:

include house #,
utility pole, mile
marker, etc

*across from 1234 Hope St; next to
UP 987*

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 Rnd: _____ Sqr: L: <u>24"</u> W: <u>24"</u>	INCHES from Grate to bottom of structure <u>84"</u>	INCHES from lowest pipe to bottom of structure <u>36"</u>	PreCast <u>Brick</u> Block Other	<u>Grate</u> Curb Inlet Curb Inlet w/ Grate Double Grate Access Other	None <u>High Capacity</u> <u>Bicycle Safety</u> Other	<u>Open</u> <u>Weep</u> Other

Comment:

PIPES (document the pipes entering and exiting the structure)

Flows From or Flows To	Diameter	Invert	Material
Structure ID	In / Out	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	<u>Municipal</u>	Private	Sewer	Other
-------------	------	-------	------------------	---------	-------	-------

List owner: BRISTOL

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)Vactor Truck
RequiredExtra 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

hope Street

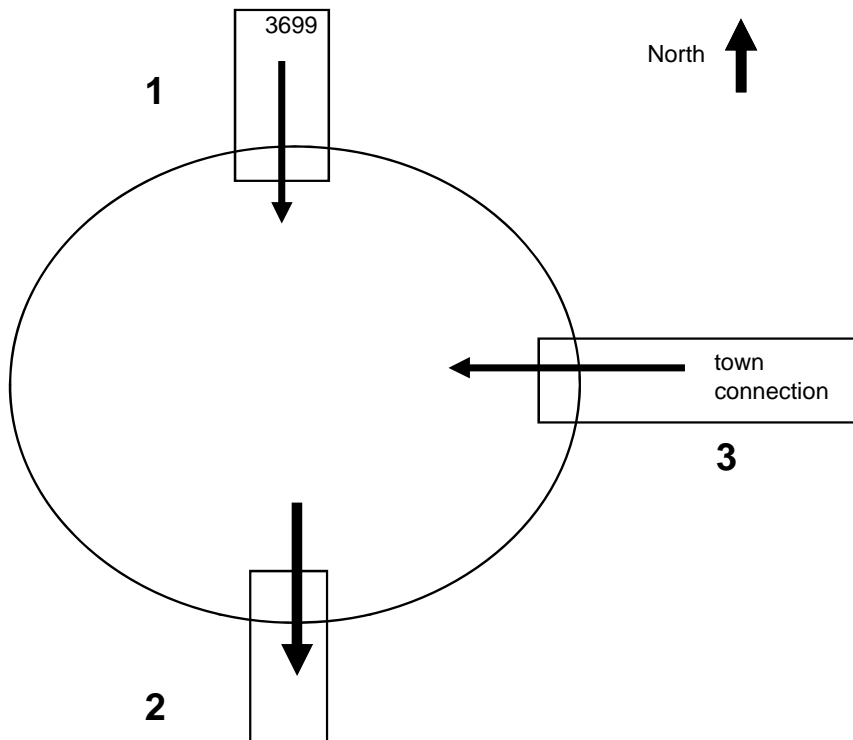
**PHOTO DATE / TIME**

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 UNKNOWN
 STRUCTURE ID: UNKNOWN
 Inspectors: INSPECTION CREW
 Road: STATE ROADWAY -INCLUDE ROAD NAME & ROUTE #
 City/Town: RHODE ISLAND CITY OR TOWN
 Descriptive Location: Provide location information: include house #, utility pole, mile 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 Manhole, 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, HDPE, 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

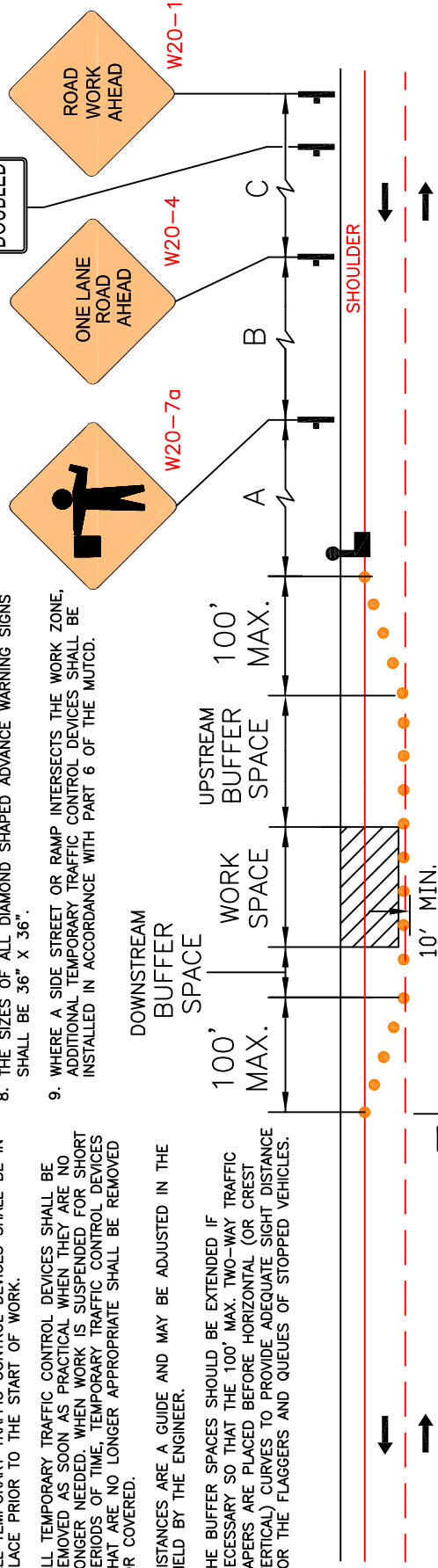
If photo was taken, provdide Make sure camera DATE/TIME STAMP is turned 'on'

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)



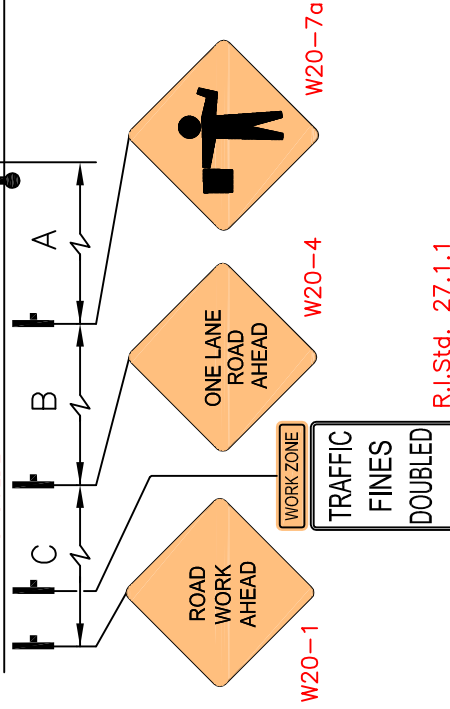
BUFFER LENGTHS

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:

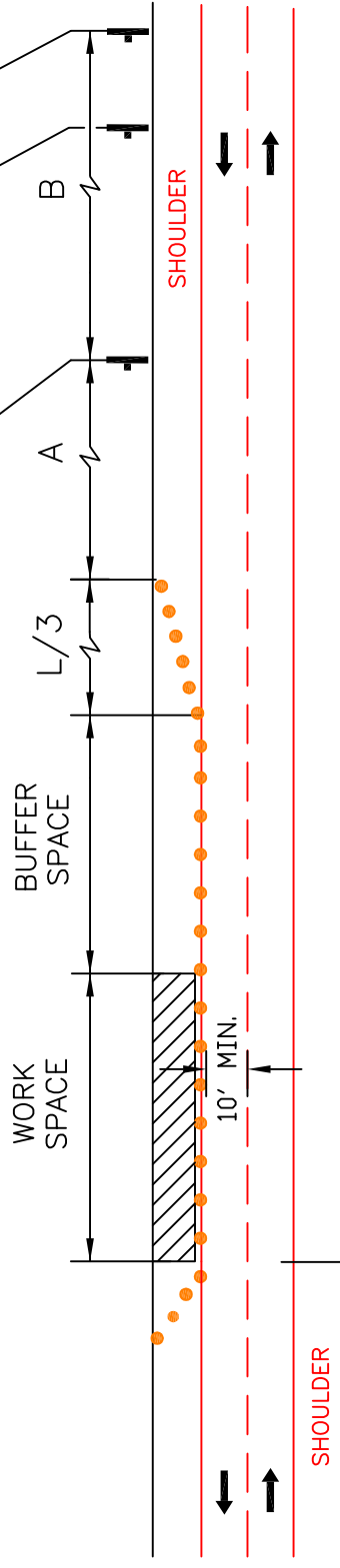
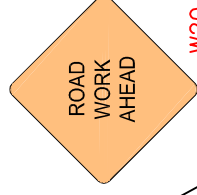
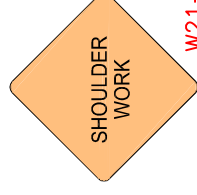
1. ALL TEMPORARY TRAFFIC CONTROL SET-UPS AND DEVICES AND THEIR INSTALLATION, MAINTENANCE, AND REMOVAL SHALL CONFORM TO THE LATEST EDITION OF THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" (MUTCD) WITH ALL REVISIONS, AND THE LATEST EDITION OF THE "RIDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" 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.

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

WORK ZONE

TRAFFIC
FINES
DOUBLED



TAPER AND BUFFER LENGTHS

Speed Limit	Taper Length* (L) Feet	Buffer Space** 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

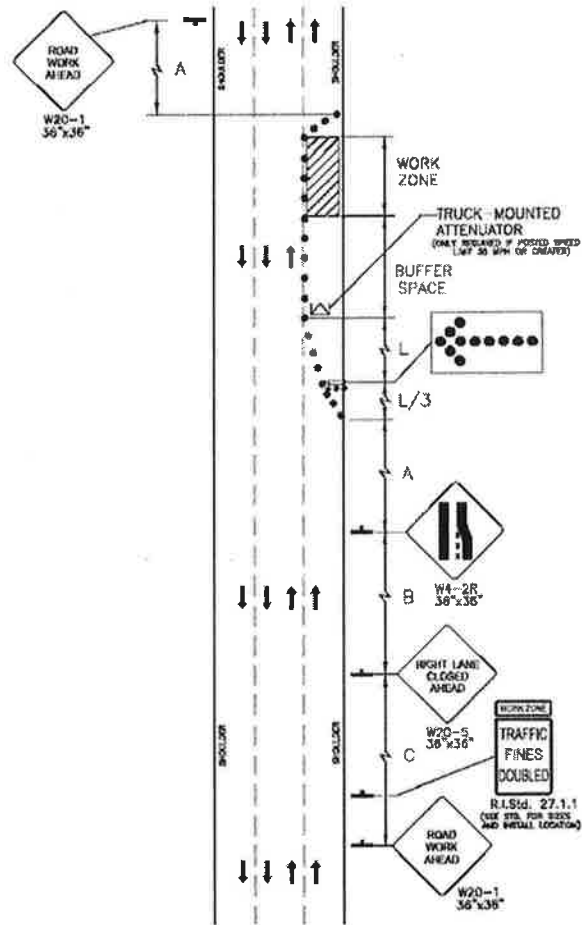


RHODE ISLAND
DEPARTMENT OF TRANSPORTATION
TEMPORARY
TRAFFIC CONTROL PLAN

TYPICAL SHOULDER CLOSURE
ON
TWO-LANE ROADWAY

NOT TO SCALE

DATE: 12-23-08



TYPICAL LANE CLOSURE ON FOUR-LANE ROADWAY
NOT TO SCALE

SUGGESTED ADVANCE WARNING SIGN SPACING

ROAD TYPE	DISTANCE BETWEEN SIGNS (FT.)		
	A	B	C
URBAN (30 MPH OR LESS)	100	100	100
URBAN (35 MPH OR MORE)	350	350	350
RURAL	500	500	500
EXPRESSWAY/FREEWAY	1,000	1,500	2,840

TAPER LENGTH FORMULAS

SPEED LIMIT (S)	TAPER LENGTH (L) FEET
40 MPH OR LESS	$L = \frac{WS^2}{60}$
45 MPH OR MORE	$L = WS$

WHERE: L = TAPER IN FEET.
W = WIDTH OF OFFSET IN FEET.
S = POSTED SPEED LIMIT, OR OFF-PEAK
85TH-PERCENTILE SPEED LIMIT PRIOR TO
WORK STARTING, OR THE ANTICIPATED
OPERATING SPEED IN MPH.

SUGGESTED BUFFER LENGTHS

SPEED LIMIT	BUFFER LENGTH (FT)
25 MPH	55
30 MPH	85
35 MPH	120
40 MPH	170
45 MPH	220
50 MPH	280

RIC 2013-DF-051

RHODE ISLAND
DEPARTMENT OF TRANSPORTATION

HURRICANE SANDY
CLEAN, FLUSH, AND VIDEO
DRAINAGE SYSTEMS

STATEWIDE

RHODE ISLAND

LANE CLOSURE ON FOUR-LANE ROADWAY

CHECKED BY _____

DATE _____

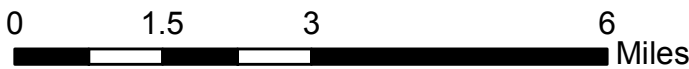
SCALE 1"=2000'

State of Rhode Island
Department of Transportation
Emergency Hurricane Repairs
Contract 2013-DF-051

Legend



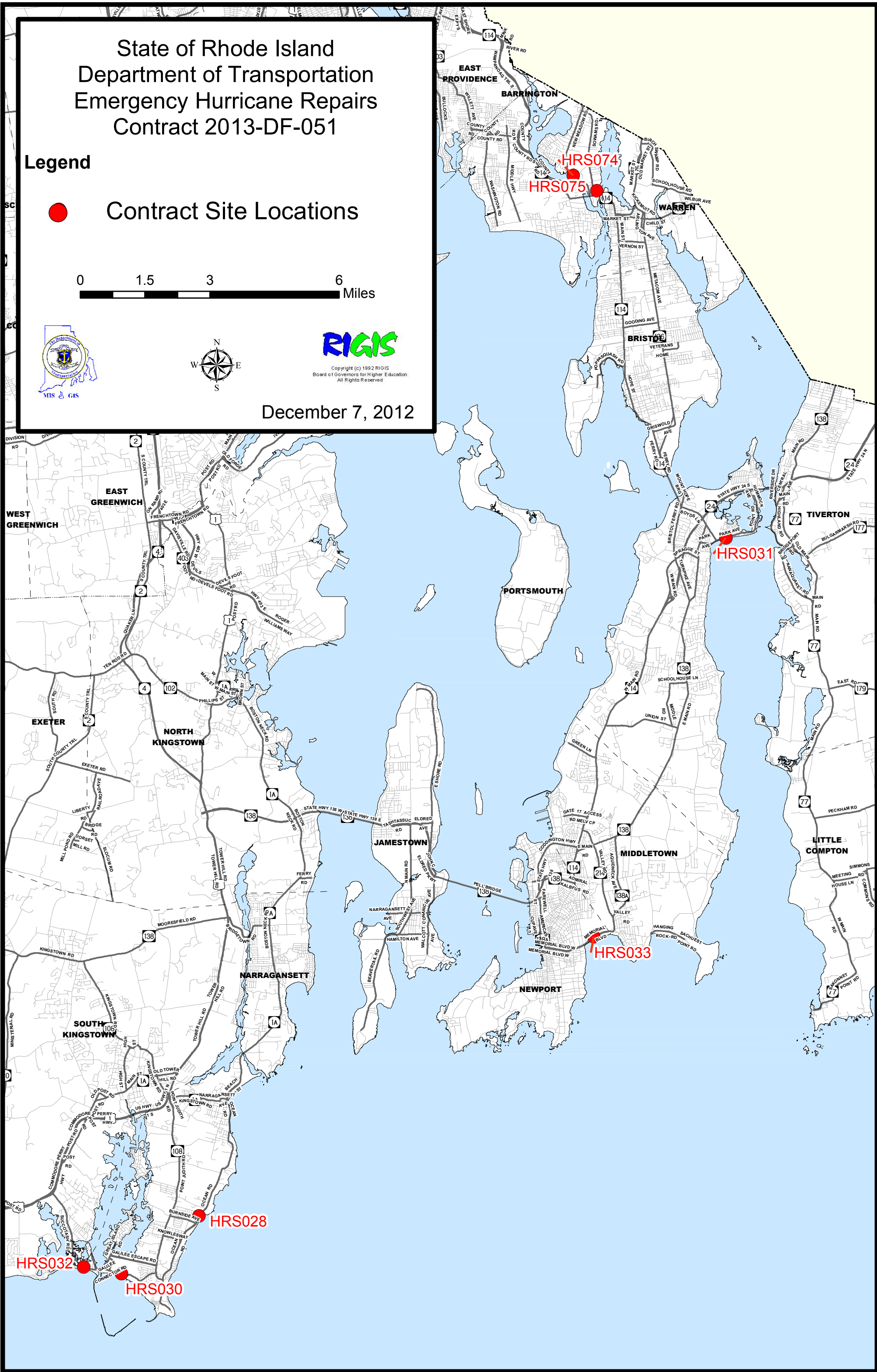
Contract Site Locations



RIGIS

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December 7, 2012



HURRICANE SANDY DAMAGE INVENTORY

TOWN OF NARRAGANSETT DECEMBER 7, 2012

OCEAN ROAD

HRS-028

Waves and flooding have filled drainage structures and pipes along Ocean Road.

The restoration of the drainage structures and pipes shall include the following:

- Cleaning catch basins and manholes
- Cleaning and flushing pipes
- Cleaning the outfall box structure
- 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.
- 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 Burnside Avenue to 1200 feet south of Burnside Avenue.

The Contractor shall perform the clean/flush and chase to the outfall to ensure that the system is cleaned out properly. If the outfall is clogged with debris, then it shall be cleared up to a maximum distance of ten feet beyond the outfall to allow for full operation of the drainage system. Payment for clearing each outfall shall be included in the lump sum prices for cleaning and flushing the drainage system. The contractor shall also provide erosion and sediment control measures at each outfall. The estimated quantities for this site are listed below.

HRS-028 Narragansett - Ocean Road

Description	Quantity	Unit
CLEANING AND FLUSHING PIPE 12 INCH	2376	LF
CLEANING AND FLUSHING PIPE 18 INCH	220	LF
CLEANING AND FLUSHING PIPE 36 INCH	205	LF
EROSION CONTROL AT OUTFALL	40	LF
CLEANING CATCH BASINS ALL TYPES AND SIZES	10	EA
CLEANING MANHOLES ALL TYPES AND SIZES	8	EA
CLEANING OUTFALL BOX STRUCTURE	1	EA



RIC 2013-DF-051

RHODE ISLAND
DEPARTMENT OF TRANSPORTATION


HURRICANE SANDY
CLEAN, FLUSH, AND VIDEO
DRAINAGE SYSTEMS

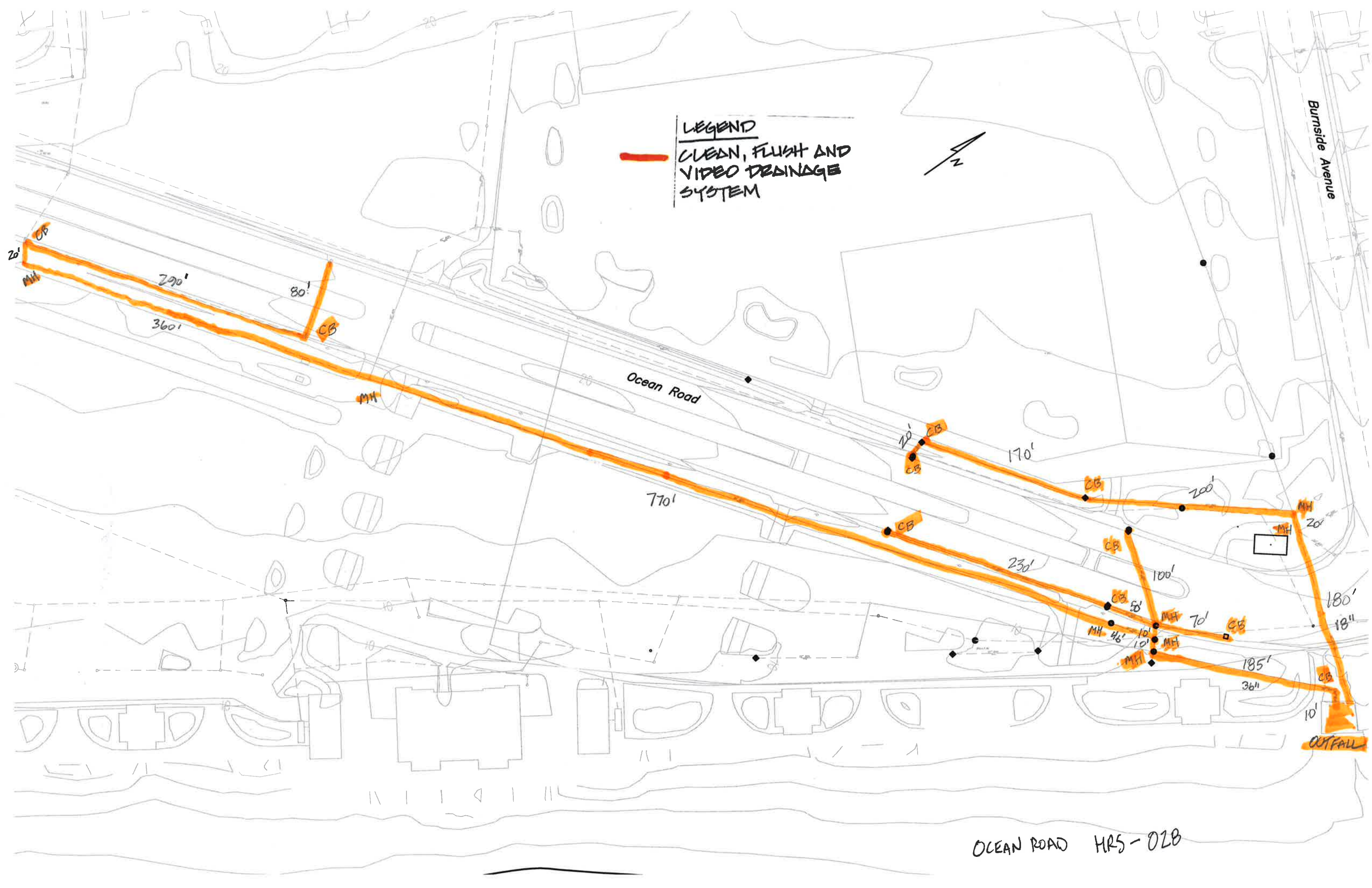
STATEWIDE

RHODE ISLAND

OCEAN ROAD NARRAGANSETT

LEGEND

 CLEAN, FLUSH AND VIDEO DRAINAGE SYSTEM



Burnside Avenue

Ocean Road

OCEAN ROAD HRS-02B

HURRICANE SANDY DAMAGE INVENTORY

TOWN OF NARRAGANSETT DECEMBER 7, 2012

SAND HILL COVE ROAD

HRS-030

Waves and flooding have filled drainage structures and pipes along Sand Hill Cove Road.

The restoration of the drainage structures and pipes shall include the following:

- Cleaning catch basins and manholes
- Cleaning and flushing pipes
- 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.
- 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 Great Island Road to Galilee Connector Road.

The Contractor shall perform the clean/flush and chase to the outfall to ensure that the system is cleaned out properly. If the outfall is clogged with debris, then it shall be cleared up to a maximum distance of ten feet beyond the outfall to allow for full operation of the drainage system. Payment for clearing each outfall shall be included in the lump sum prices for cleaning and flushing the drainage system. The contractor shall also provide erosion and sediment control measures at each outfall. The estimated quantities for this site are listed below.

HRS-030 Narragansett - Sand Hill Cove Road		
Description	Quantity	Unit
CLEANING AND FLUSHING PIPE 12 INCH	1248	LF
CLEANING AND FLUSHING PIPE 18 INCH	289	LF
EROSION CONTROL AT OUTFALL	20	LF
CLEANING CATCH BASINS ALL TYPES AND SIZES	11	EA
CLEANING MANHOLES ALL TYPES AND SIZES	5	EA



RIC 2013-DF-051

RHODE ISLAND
DEPARTMENT OF TRANSPORTATION

HURRICANE SANDY
CLEAN, FLUSH, AND VIDEO
DRAINAGE SYSTEMS

STATEWIDE

RHODE ISLAND

SAND HILL COVE RD NARRAGANSETT

LIST OF DRAWINGS

SHEET NO.	DESCRIPTION
1	TITLE SHEET
2	KEY PLAN
3	PLAN SYMBOLS, GENERAL LEGEND AND GENERAL NOTES
4 - 7	TYPICAL SECTIONS NOS. 1 THROUGH 4
8 - 9	MISCELLANEOUS DETAILS
10	TRAFFIC LOOP DETAILS
11 - 20	GENERAL PLAN NOS. 1 THROUGH 10
21 - 32	DRAINAGE & UTILITY PLAN NOS. 1 THROUGH 10
33 - 42	GRADE PLAN NOS. 1 THROUGH 10
43 - 52	LOCATION PLAN NOS. 1 THROUGH 10
53 - 62	SIGNING AND STRIPING PLAN NOS. 1 THROUGH 10
63	MAINTENANCE & PROTECTION OF TRAFFIC PLAN
64 - 73	LANDSCAPE PLAN NOS. 1 THROUGH 10
74 - 76	LANDSCAPE DETAIL NOS. 1 THROUGH 3
77 - 78	ELECTRICAL PLAN 1 & 2
79 - 88	RHODE ISLAND STANDARD DETAILS
89 - 118	CROSS SECTIONS

RHODE ISLAND SPECIFICATIONS AND STANDARD DETAILS

SPECIFICATIONS TO GOVERN THIS PROJECT ARE R.I. STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, 1997 EDITION AND; THE STATE AND FEDERAL SPECIAL PROVISIONS INCLUDED IN THE CONTRACT DOCUMENTS. STANDARD DETAILS FOR THIS PROJECT ARE R.I. STANDARD DETAILS AS INCLUDED.

THE FOLLOWING STANDARD DETAILS ARE INCLUDED IN THIS PROJECT:

2.6	PRECAST CONCRETE FLARED END SECTION
3.1	MANHOLE BRICK OR BLOCK
3.2	MANHOLE 5' OR 6' DIAMETER
4.2	CATCH BASIN TYPE "D" BRICK - SQUARE
4.3	CATCH BASIN TYPE "F" ROUND
4.4	CATCH BASIN TYPE "F" BRICK - SQUARE
4.8	CATCH BASIN 5' OR 6' DIAMETER
5.11	SQUARE FRAME & ROUND COVER LIGHT DUTY CATCH BASIN
5.12	SQUARE FRAME & GRATE
5.22	ROUND FRAME & COVER HEAVY DUTY MANHOLE
7.21	PRECAST CONCRETE CURB (SLOPED FACE)
7.51	GRANITE CURB QUARRY SPLIT
7.52	GRANITE CURB-QUARRY SPLIT INLET STONE FOR SQUARE CATCH BASIN
7.54	GRANITE CURB-QUARRY SPLIT APRON STONE
7.57	GRANITE TRANSITION CURB
7.58	3' GRANITE TRANSITION CURB
9.1	BALED HAY EROSION CHECK
10.1, 10.11	WET STONE MASONRY RETAINING WALL
10.12	STONE MASONRY STEPS
14.1	CONCRETE HIGHWAY BOUND
15.20	MULTIPLE MOUNTING FOR RURAL MAILBOXES
15.30	POST & MOUNTING FOR RURAL MAILBOX
18.10	PRECAST HANDHOLE TYPE "A"
19.10	STREET NAME SIGN
19.15	PAVEMENT MARKINGS ARROWS & ONLY
19.5	INDUCTANCE LOOP VEHICLE DETECTOR INSTALLATION DETAILS
24.0	GENERAL NOTES REGULATORY & WARNING SIGN MOUNTINGS
24.1	SINGLE 4"x 6" POST MAX SIGN AREA 13 SF REGULATORY & WARNING SIGN MOUNTINGS
24.11	REGULATORY SIGN MOUNTING SINGLE 4"x 4" POST
24.12	WARNING SIGN MOUNTING 4"x 4" POST
24.14	PARKING SIGN - MOUNTING
24.7	DIRECTIONAL SIGN MOUNTING DOUBLE 3"x 6" POST-MAX SIGN AREA 32 SF
24.8	DIRECTIONAL SIGN MOUNTING TRIPLE 3"x 5" POST-MAX SIGN AREA 45 SF
25.0	GENERAL NOTES CONSTRUCTION & TEMPORARY SIGNS & MOUNTINGS
25.5, 25.6	CONSTRUCTION & TEMPORARY SIGN MOUNTINGS
26.15	(PVC) PLASTIC PIPE BARRICADE
26.4	DRUM BARRICADE WITH MARKINGS & MOUNTING
26.5	POLYETHYLENE DRUM WITH MARKINGS
26.6	FLORESCENT TRAFFIC CONE
27.0	REGULATORY SIGNS
28.0	WARNING SIGNS
29.0	GUIDE SIGNS AND CONSTRUCTION SIGNS
29.50	FIELD OFFICE IDENTIFICATION SIGN
31.3, 31.4, 31.41-31.43	CHAIN LINK FENCE (5 FT - 6 FT)
34.23	STEEL BACKED TIMBER GUARDRAIL
34.24	STEEL BACKED TIMBER GUARDRAIL TERMINAL SECTION, TYPE 1 & TYPE 2
43.1	CEMENT CONCRETE SIDEWALK
43.31	RADIUS WHEELCHAIR RAMP
43.32	WHEELCHAIR RAMP
43.34	WHEELCHAIR RAMP
43.41	DRIVEWAY DEVELOPMENT FOR 3' TRANSITION CURB
43.42	DRIVEWAY DEVELOPMENT FOR 6' TRANSITION CURB
43.50	PORTLAND CEMENT COMMERCIAL DRIVEWAY
51.2	TYPICAL SHRUB PROTECTION DEVICE

ADDENDUM NO. 3

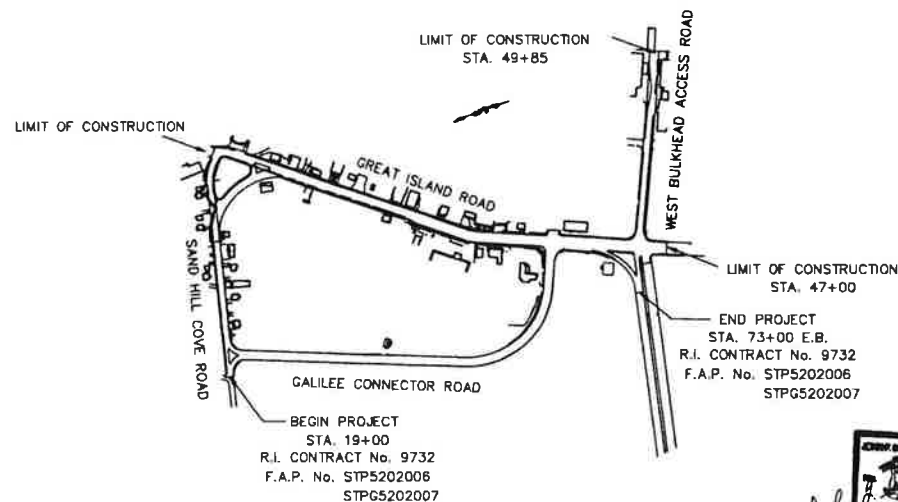
STATE OF RHODE ISLAND
DEPARTMENT OF TRANSPORTATION
DIVISION OF PUBLIC WORKS
PLANS, PROFILES, AND SECTIONS OF PROPOSED
STATE HIGHWAY
HIGHWAY IMPROVEMENTS
PORT OF GALILEE

TOWN OF NARRAGANSETT
COUNTY OF WASHINGTON

R.I. CONTRACT NO. 9732 F.A. PROJECT NO. STP5202006
STPG5202007

LENGTH = 1.20 MILES
PAVEMENT WIDTH = 18 - 60 FEET

2" BITUMINOUS SURFACE COURSE, TYPE I-1
2" BITUMINOUS BINDER COURSE,
3" BITUMINOUS BASE COURSE
12" GRAVEL BORROW SUBBASE COURSE



SCALES OF DRAWINGS

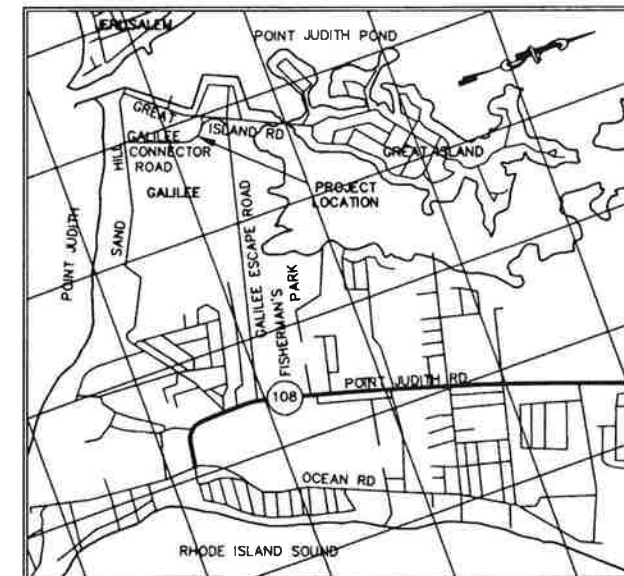
Plans	1 inch = 20 feet
Profiles	1 inch = 20 feet Horizontal
"	1 inch = 4 feet Vertical
Typical Sections	1 inch = 4 feet Horizontal
"	1 inch = 4 feet Vertical

BASE OF LEVELS
M.S.L. 1929 DATUM

CONTRACT NUMBER 9732
NUMBER OF SHEET 1
TOTAL SHEETS 118

FED. ROAD DIV. NO.	STATE	FEDERAL AID PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
	RI	STP5202006 STPG5202007		1	118

R-1



LOCATION MAP
NOT TO SCALE

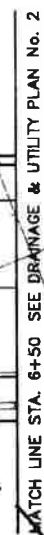
DESIGN DESIGNATIONS

ADT (1990) = 4,400
ADT (2010) = 8,250
K = 17%
D = 100/0 (ONE WAY STREET)
T = 2%
V = 30 MPH & VARIES

PREPARED BY: **STORCH ENGINEERS**
engineers • surveyors • environmental consultants
planners • soil scientists • landscape architects
214 LINCOLN STREET SUITE 200
BOSTON, MASSACHUSETTS 02134 (617) 783-0404

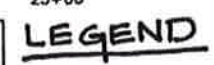
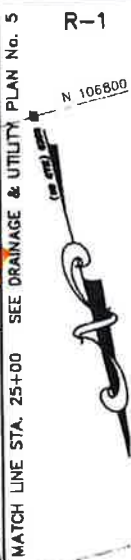
Gates, Leighton & Associates, Incorporated
Planning • Landscape Architecture • Parks • Public Spaces
2253 Pawtucket Avenue, East Providence, Rhode Island 02914-1788

R.I. DEPARTMENT OF TRANSPORTATION DIVISION OF PUBLIC WORKS	
APPROVED <i>J. Michael Brant</i> CHIEF OF DESIGN	6-12-97 DATE
APPROVED <i>James A. Galt</i> CHIEF ENGINEER	6-12-97 DATE
APPROVED <i>J. J. C. C.</i> DIRECTOR	6-12-97 DATE
DEPARTMENT OF TRANSPORTATION FEDERAL HIGHWAY ADMINISTRATION APPROVED	
DIVISION ADMINISTRATOR	DATE

[illegible]

CHECKED BY CWS DATE 7-7-97 SCALE 1"=20'

HR5-030



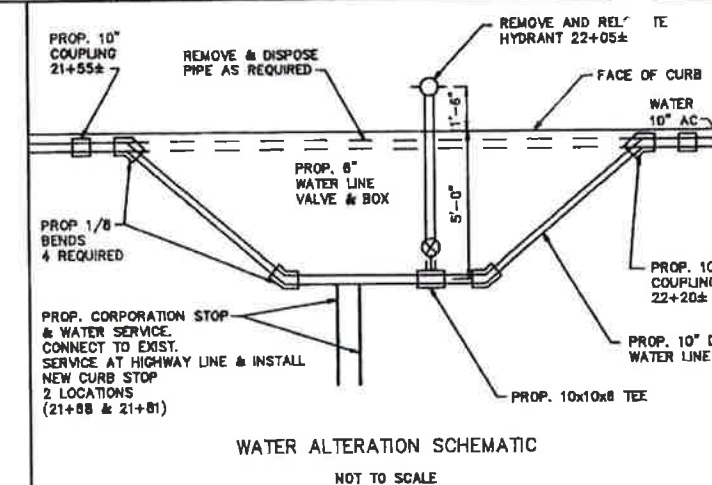
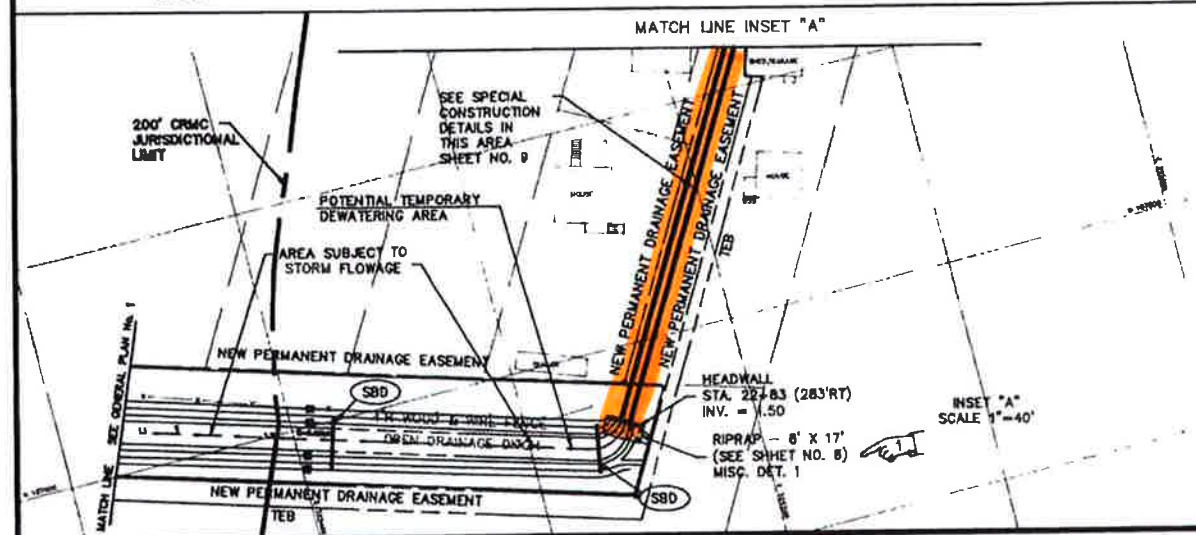
SCALE OF DRAWINGS

HORIZONTAL	0	5	10	20	40	50	60	FEET
VERTICAL	0	1	2	4	8	10	12	FEET

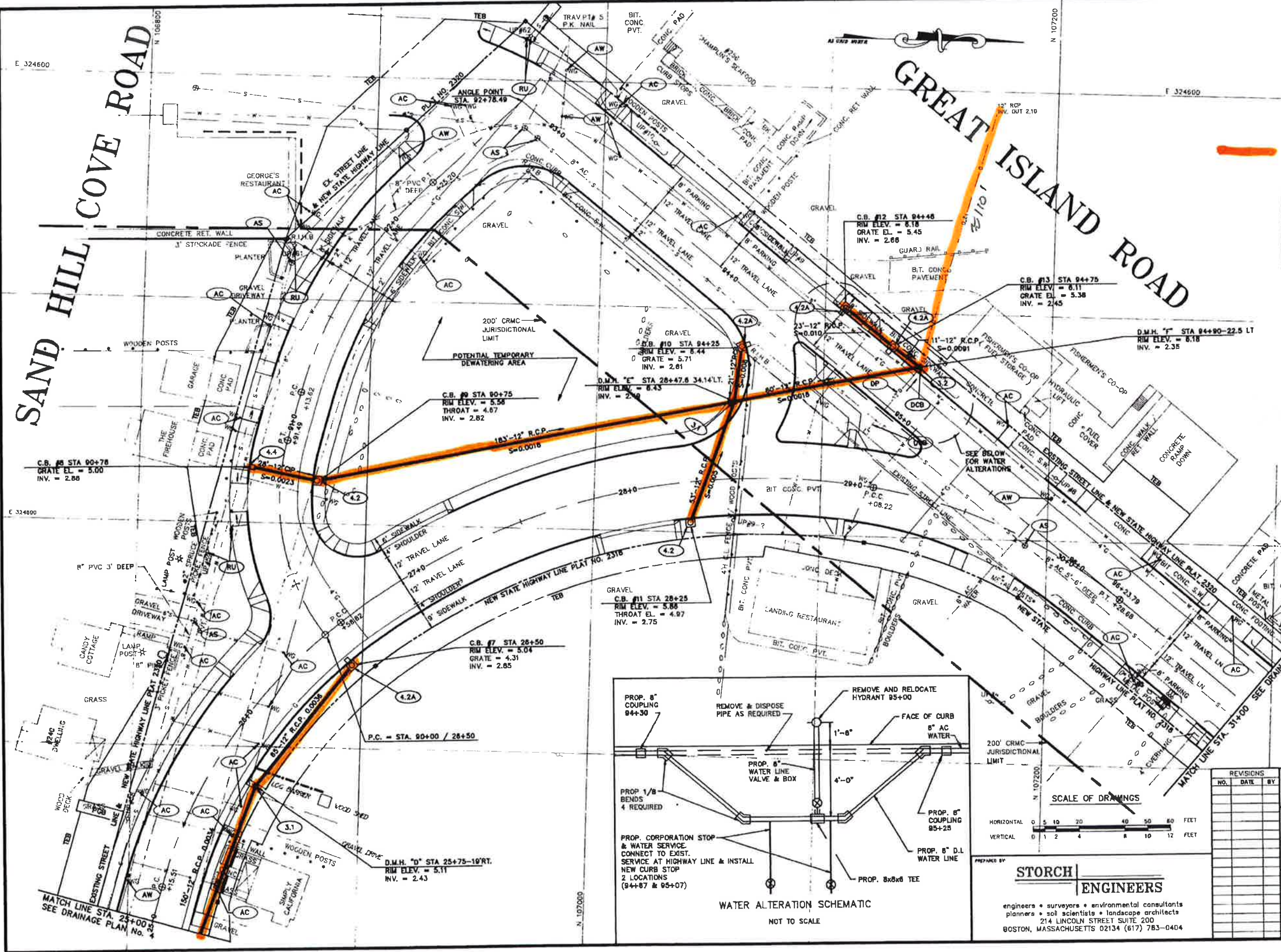
engineers • surveyors • environmental consultants
planners • soil scientists • landscape architects
214 LINCOLN STREET SUITE 200
BOSTON, MASSACHUSETTS 02134 (617) 783-0404

[illegible]

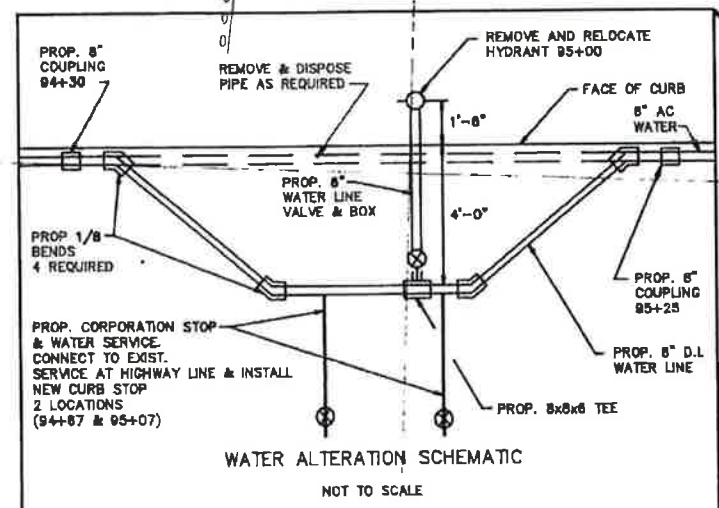
CHECKED BY CWS DATE 7-7-97 SCALE 1"=2



HRS-030



LEGEND
CLEAN, FLUSH AND
VIDEO DRAINAGE
SYSTEM



PREPARED BY: **STORCH ENGINEERS**
engineers • surveyors • environmental consultants
planners • soil scientists • landscape architects
214 LINCOLN STREET SUITE 200
BOSTON, MASSACHUSETTS 02134 (617) 783-0404

REVISIONS		
NO.	DATE	BY

RHODE ISLAND
DEPARTMENT OF TRANSPORTATION
DIVISION OF PUBLIC WORKS
ROADWAY RECONSTRUCTION PROJECT
PORT OF GALILEE
NARRAGANSETT RHODE ISLAND
DRAINAGE & UTILITY PLAN 5
SAND HILL COVE ROAD/GREAT ISLAND ROAD
STA. 31+00 TO 37+00 / 90+00 TO 96+23.79
CHECKED BY: TCH DATE: 5-30-97 SCALE: 1"=20'

HR5-030

HURRICANE SANDY DAMAGE INVENTORY

TOWN OF PORTSMOUTH DECEMBER 7, 2012

PARK AVENUE

HRS-031

Waves and flooding have filled drainage structures and pipes along Park Avenue.

The restoration of the drainage structures and pipes shall include the following:

- Cleaning catch basins and manholes
- Cleaning and flushing pipes
- 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.
- 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 Boyd's Lane to 100 feet east of Riverside Street.

The Contractor shall perform the clean/flush and chase to the outfall to ensure that the system is cleaned out properly. If the outfall is clogged with debris, then it shall be cleared up to a maximum distance of ten feet beyond the outfall to allow for full operation of the drainage system. Payment for clearing each outfall shall be included in the lump sum prices for cleaning and flushing the drainage system. The contractor shall also provide erosion and sediment control measures at each outfall. The estimated quantities for this site are listed below.

HRS-031 Portsmouth - Park Avenue		
Description	Quantity	Unit
CLEANING AND FLUSHING PIPE UNKNOWN SIZES	155	LF
EROSION CONTROL AT OUTFALL	80	LF
CLEANING CATCH BASINS ALL TYPES AND SIZES	11	EA



RIC 2013-DF-051

RHODE ISLAND
DEPARTMENT OF TRANSPORTATION

HURRICANE SANDY
CLEAN, FLUSH, AND VIDEO
DRAINAGE SYSTEMS

STATEWIDE

RHODE ISLAND

PARK AVENUE PORTSMOUTH

INDEX OF DRAWINGS

SHEET NO.	DESCRIPTION
1	COVER SHEET
2	PLAN SYMBOLS AND GENERAL LEGEND
3	GENERAL NOTES
4-6	TYPICAL SECTIONS NOS. 1-3
7	DETAILS SHEET
8-14	GENERAL PLAN NOS. 1-7
15-21	SIGNING & STRIPING PLAN NOS. 1-7
22-24	LIGHTING PLAN NOS. 1-3
25-27	MISCELLANEOUS LIGHTING DETAILS NOS. 1-3
28-29	LANDSCAPE PLAN NOS. 1-2
30	RETAINING WALL LOCATION PLAN AND NOTES
31	RETAINING WALL ELEVATION AND TYPICAL SECTION
32-33	RETAINING WALL DETAILS SHEET NOS. 1-2
34	RETAINING WALL BORING LOGS
35-36	MAINTENANCE AND PROTECTION OF TRAFFIC PLAN NOS. 1-2

STATE OF RHODE ISLAND DEPARTMENT OF TRANSPORTATION

PLAN OF PROPOSED IMPROVEMENTS

PARK AVENUE ENHANCEMENTS

FROM AQUIDNECK AVENUE TO POINT ROAD

TOWN OF PORTSMOUTH

COUNTY OF NEWPORT

RHODE ISLAND FEDERAL AID PROJECT NOS. STP-TEA2(071)
STP-RESF(067)
3RD-PRTY(036)

RHODE ISLAND CONTRACT NO. 2005-CH-034

LENGTH: 1.2 MILES

PAVEMENT: REMOVE 2-INCHES BITUMINOUS PAVEMENT (COLD-PLANE)
PLACE 2-INCHES BITUMINOUS SURFACE COURSE, TYPE I-1

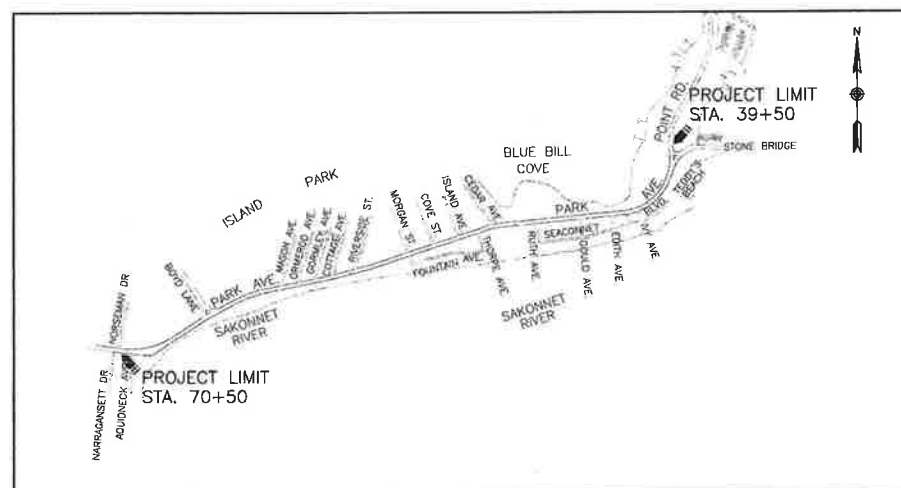
2001 ANNUAL 24 HOUR AVERAGE DAILY TRAFFIC

PARK AVENUE ADT= 4,500 VPD

LEGEND



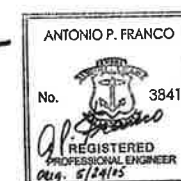
CLEAN, FLUSH, AND
VIDEO DRAINAGE
SYSTEM



LAYOUT
NOT TO SCALE



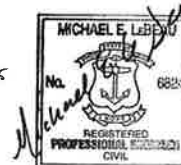
FOR SHEETS 1-21, 35-36



FOR SHEETS 22-27



FOR SHEETS 28-29



FOR SHEETS 30-34

R.I. STANDARD SPECIFICATIONS AND STANDARD DETAILS
SPECIFICATIONS TO GOVERN THIS PROJECT ARE THE R.I. STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, 2004 EDITION AND; THE STATE AND FEDERAL SPECIAL PROVISIONS INCLUDED IN THE CONTRACT DOCUMENTS. STANDARD DETAILS FOR THIS PROJECT ARE R.I. STANDARD DETAILS, 1998 EDITION.

SCALE OF DRAWINGS
PLANS: 1 INCH = 20 FEET

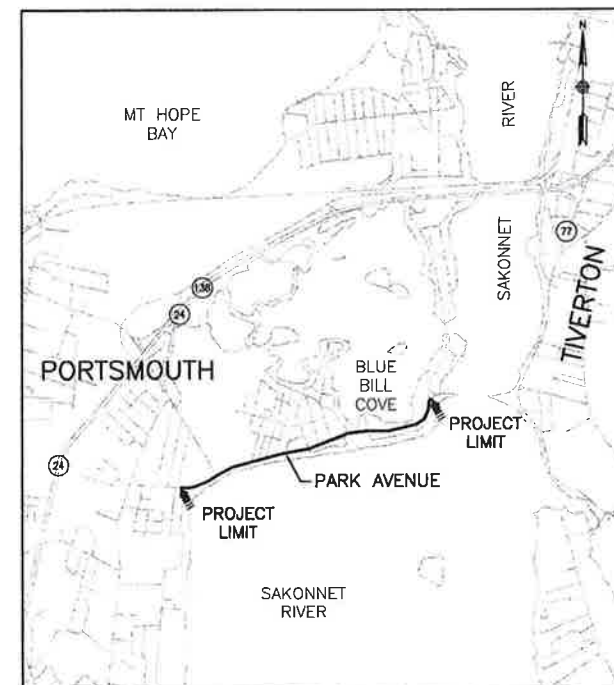
BASE OF LEVELS
NAD-1983 HORIZONTAL DATUM
NGVD-1929 VERTICAL DATUM



Contract Number 2005-CH-034
Number of Sheet 1
Total Sheets 36

R.I. DEPARTMENT OF TRANSPORTATION	
APPROVED	
<i>Kay Farnham</i>	5/24/05
DEPUTY CHIEF ENGINEER	DATE
APPROVED	
<i>Edward P. Pappas</i>	5/24/05
CHIEF ENGINEER	DATE
APPROVED	
<i>James A. Gault</i>	5-25-05
DIRECTOR OF TRANSPORTATION	DATE
DEPARTMENT OF TRANSPORTATION FEDERAL HIGHWAY ADMINISTRATION	
APPROVED	
DIVISION ADMINISTRATOR	DATE

FED. ROAD DIV. NO.	STATE	FEDERAL AID PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEET
	R.I.	STP-TEA2(071) STP-RESF(067) 3RD-PRTY(036)		1	36



LOCATION MAP
SCALE: 1:2000

FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
	R.I.	STP-YEA2(071) STP-RESF(067)		9	36
JRD-PRTY(036)					

LEGEND
CLEAN, FLUSH AND VIDEO DRAINAGE SYSTEM

CURVE TABLE					
CURVE	RADIUS	LENGTH	TANGENT	DELTA	CHORD
C-7	2215.00'	198.02'	99.08'	5°07'20"	197.95'
C-8	70.00'	43.75'	22.61'	35°48'29"	43.04'
C-9	3.00'	6.21'	5.05'	118°33'04"	5.16'
C-10	50.00'	33.83'	17.59'	38°46'08"	33.19'
C-11	3.00'	8.58'	21.23'	163°54'45"	8.94'
C-12	50.00'	33.83'	17.59'	38°46'06"	33.19'
C-13	75.00'	45.18'	23.30'	34°30'47"	44.50'
C-14	1324.47'	402.89'	203.07'	17°26'00"	401.44'
C-15	1285.00'	390.89'	197.02'	17°26'00"	389.48'
C-16	10.00'	7.00'	3.65'	40°06'25"	6.88'

TRAVERSE TABLE			
POINT NO.	ELEVATION	DESCRIPTION	LOCATION
9	5.35'	DISC PO-009	N 196047.12 E 399656.83
17	7.22'	PK SET	N 196147.18 E 400028.21

CRMC NOTES:

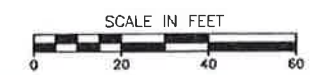
1. THE ENTIRE PROJECT AREA SHOWN ON THIS SHEET IS LOCATED WITHIN THE RHODE ISLAND COASTAL RESOURCES MANAGEMENT COUNCIL (CRMC) 200' JURISDICTIONAL AREA.
2. THE PROJECT AREA SHOWN ON THIS SHEET IS ADJACENT TO CRMC TYPE 2 WATERS OF THE SAKONNET RIVER.

LEGEND

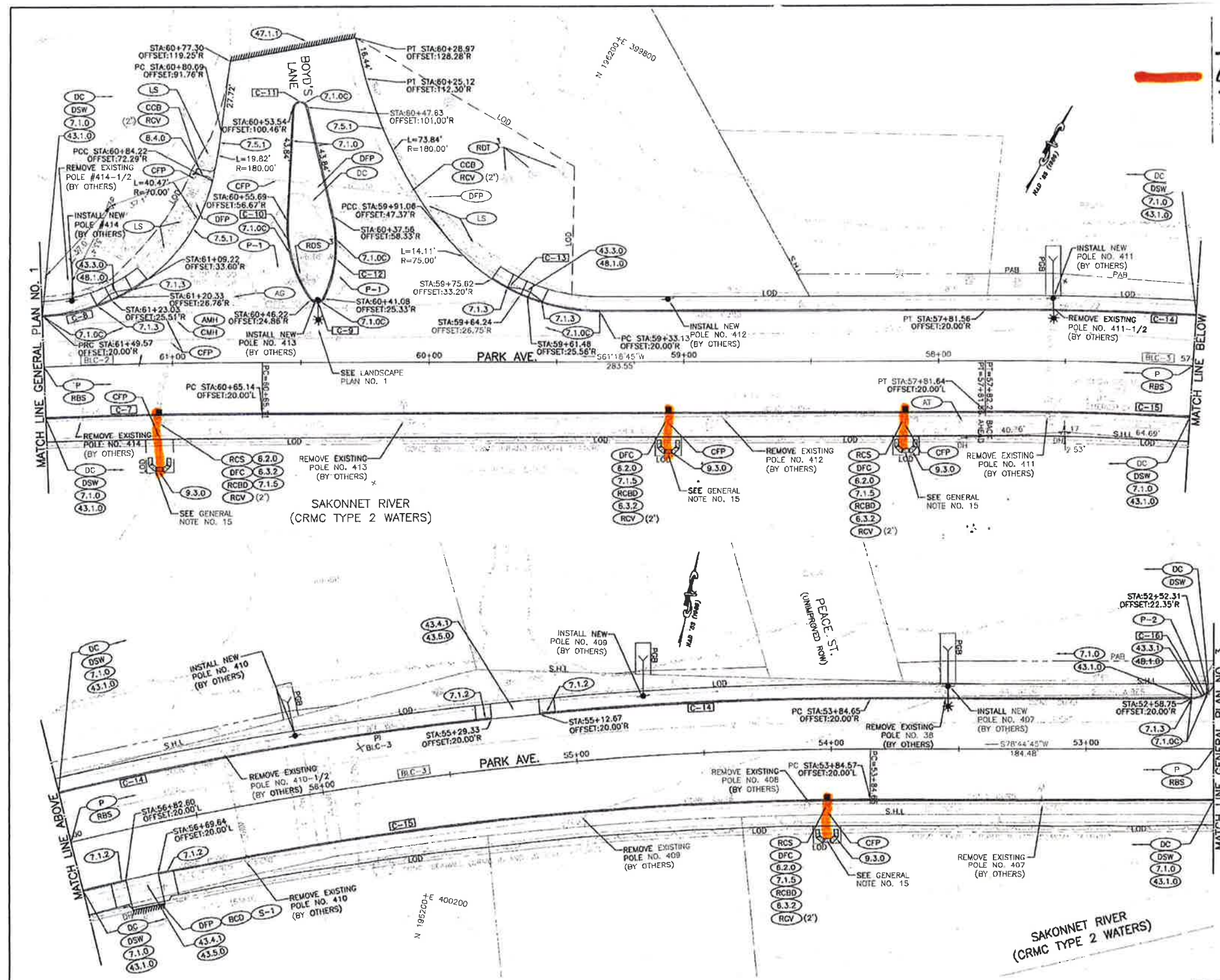
- POINT OF INTERSECTION NUMBER
- BASELINE CURVE NUMBER
- CURVE CURVE NUMBER
- POINT OF CURVATURE
- POINT OF TANGENCY
- POINT OF INTERSECTION
- POINT OF COMPOUND CURVATURE
- POINT OF REVERSE CURVATURE
- BASELINE
- RHODE ISLAND HIGHWAY BOUND
- PERMANENT AERIAL EASEMENT BOUNDARY LINE
- PERMANENT GUY EASEMENT BOUNDARY LINE
- TRAVERSE POINT

REVISIONS			RHODE ISLAND DEPARTMENT OF TRANSPORTATION	
NO.	DATE	BY		
			PARK AVENUE ENHANCEMENTS FROM AQUIDNECK AVENUE TO POINT ROAD	
			PORTSMOUTH RHODE ISLAND	
			GENERAL PLAN NO. 2	
			CHECKED BY _____ DATE _____ SCALE 1"=20'	

BASELINE CURVE TABLE							
CURVE	RADIUS	LENGTH	TANGENT	DELTA	CHORD	POINT OF INTERSECTION	POINT OF TANGENCY
BLC-2	2235.66'	199.87'	100.00'	5°07'20"	199.80'	N 195973.08 E 399651.13	N 196021.07 E 399738.85
BLC-3	1304.47'	396.91'	200.00'	17°26'00"	395.38'	N 196253.19 E 400163.05	N 196292.22 E 400359.20



BRYANT ASSOCIATES, INC.
 Engineers Surveyors
 12 Breakneck Hill Road
 Lincoln, Rhode Island 02865-3925



HRS-031

CURVE TABLE					
CURVE	RADIUS	LENGTH	TANGENT	DELTA	CHORD
C-17	6.00'	4.00'	2.08'	38°11'50"	3.93'
C-18	16741.71'	200.24'	100.12'	0°41'07"	200.24'
C-19	16701.71'	116.77'	58.39'	0°24'02"	116.77'
C-20	10.00'	7.00'	3.65'	40°06'25"	6.86'
C-21	4.00'	7.92'	6.09'	113°26'42"	6.69'
C-22	16701.71'	44.80'	22.30'	0°09'11"	44.80'
C-23	8.00'	6.00'	3.15'	42°58'19"	5.86'
C-24	500.00'	17.87'	8.94'	2°02'53"	17.87'
C-25	4.00'	4.00'	2.19'	57°17'45"	3.84'
C-26	4456.95'	100.64'	50.32'	1°17'37"	100.63'
C-27	10.00'	8.00'	3.09'	34°22'39"	5.91'
C-28	6.00'	4.00'	2.08'	38°11'50"	3.93'
C-29	4456.95'	53.35'	26.68'	0°41'09"	53.35'
C-30	500.00'	6.15'	3.07'	0°42'16"	6.15'
C-31	10.00'	4.00'	2.03'	22°55'08"	3.97'
C-32	4.00'	5.00'	2.89'	71°37'11"	4.68'
C-33	1368.00'	103.77'	51.91'	4°20'46"	103.74'
C-34	1328.40'	98.45'	49.25'	4°14'46"	98.42'

TRAVERSE TABLE			
POINT NO.	ELEVATION	DESCRIPTION	LOCATION
215	5.46'	H-1263/PK N 196391.72 E 400845.21	
119	9.62'	POL PK N 196524.15 E 401387.77	

- CRMC NOTES:
- THE ENTIRE PROJECT AREA SHOWN ON THIS SHEET IS LOCATED WITHIN THE RHODE ISLAND COASTAL RESOURCES MANAGEMENT COUNCIL (CRMC) 200' JURISDICTIONAL AREA.
 - THE PROJECT AREA SHOWN ON THIS SHEET IS ADJACENT TO CRMC TYPE 2 WATERS OF THE SAKONNET RIVER.

- LEGEND
- PI POINT OF INTERSECTION NUMBER
 - BLC-# BASELINE CURVE NUMBER
 - C-# CURB CURVE NUMBER
 - PC POINT OF CURVATURE
 - PT POINT OF TANGENCY
 - PI POINT OF INTERSECTION
 - PCC POINT OF COMPOUND CURVATURE
 - PRC POINT OF REVERSE CURVATURE
 - BASELINE
 - RHIB RHODE ISLAND HIGHWAY BOUNDARY
 - PAB PERMANENT AERIAL EASEMENT BOUNDARY LINE
 - PGB PERMANENT GUY EASEMENT BOUNDARY LINE
 - PT. NO. TRAVERSE POINT

BASELINE CURVE TABLE									
CURVE	RADIUS	LENGTH	TANGENT	DELTA	CHORD	POINT OF INTERSECTION	POINT OF CURVATURE	CENTER	
BLC-4	16721.71'	200.00'	100.00'	0°41'07"	200.00'	N 196347.74 E 400638.21	N 196368.43 E 400736.05	N 212728.39 E	
BLC-5	4476.95'	200.07'	100.05'	2°33'38"	200.06'	N 196425.60 E 401006.40	N 196450.65 E 401103.27	N 200784.99 E	
BLC-6	1348.40'	99.93'	49.99'	4°14'46"	99.90'	N 196536.79 E 401436.34	N 196552.85 E 401483.68	N 197829.72 E	

LEGEND
CLEAN, FLUSH AND
VIDEO DRAINAGE
SYSTEM

SCALE IN FEET
0 20 40 60

BRYANT ASSOCIATES, INC.
Engineers - Surveyors
12 Breakneck Hill Road
Lincoln, Rhode Island 02865-3925

REVISIONS			RHODE ISLAND DEPARTMENT OF TRANSPORTATION	
NO.	DATE	BY	PARK AVENUE ENHANCEMENTS FROM AQUIDNECK AVENUE TO POINT ROAD	
			PORTSMOUTH RHODE ISLAND	
			GENERAL PLAN NO. 3	
CHECKED BY			DATE	SCALE 1"=20'

HRS-031

HURRICANE SANDY DAMAGE INVENTORY

TOWN OF SOUTH KINGSTOWN DECEMBER 7, 2012

SUCCOTASH ROAD

HRS-032

Waves and flooding have filled drainage structures and pipes along Succotash Road.

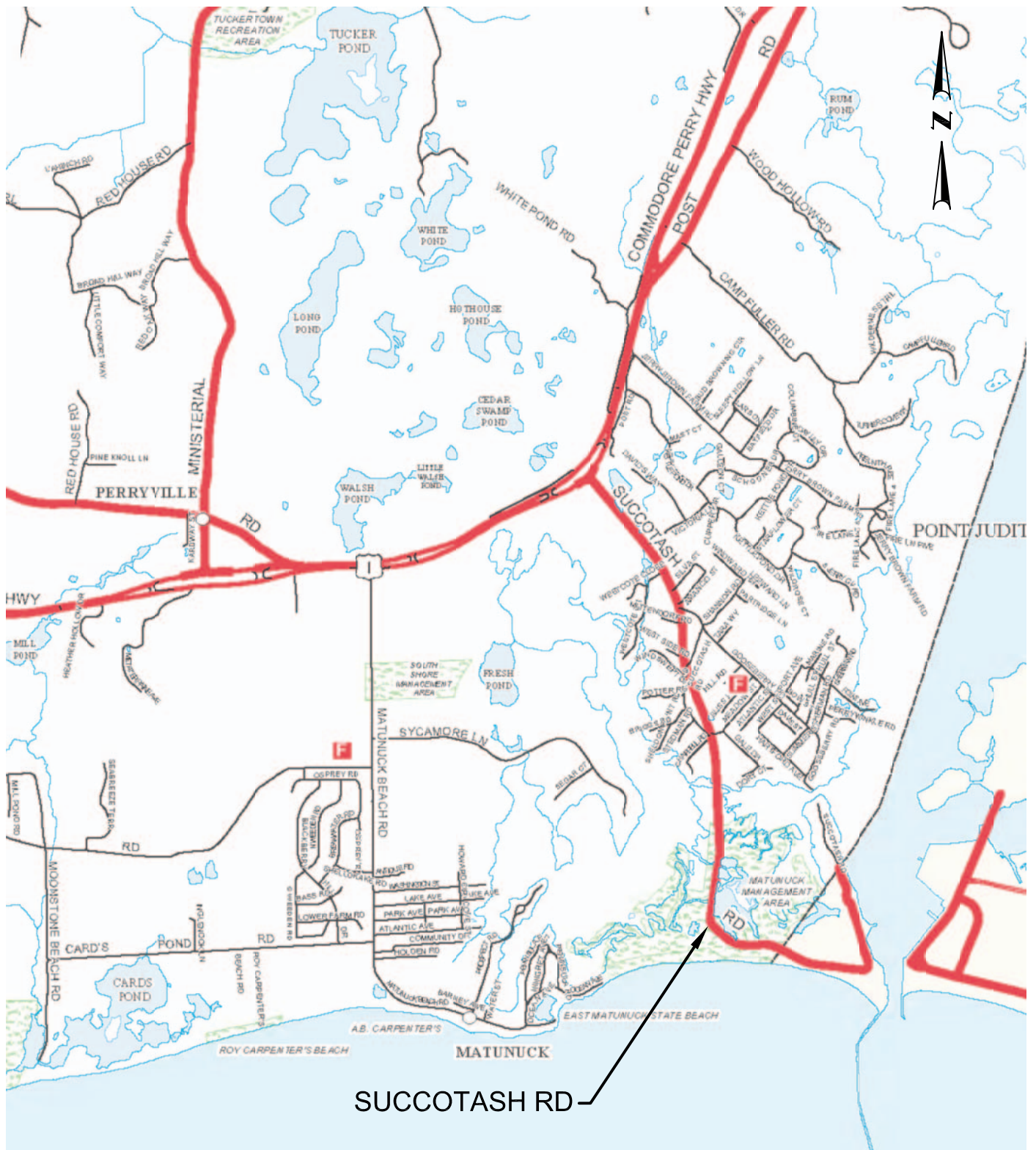
The restoration of the drainage structures and pipes shall include the following:

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

The work is limited to one catch basin located south of the entrance to East Matunuck State Beach.

The Contractor shall perform the clean/flush and chase to the outfall to ensure that the system is cleaned out properly. If the outfall is clogged with debris, then it shall be cleared up to a maximum distance of ten feet beyond the outfall to allow for full operation of the drainage system. Payment for clearing each outfall shall be included in the lump sum prices for cleaning and flushing the drainage system. The contractor shall also provide erosion and sediment control measures at each outfall. The estimated quantities for this site are listed below.

HRS-032 South Kingstown - Succotash Road		
Description	Quantity	Unit
CLEANING AND FLUSHING PIPE UNKNOWN SIZE	32	LF
EROSION CONTROL AT OUTFALL	20	LF
CLEANING CATCH BASINS ALL TYPES AND SIZES	1	EA



SUCCOTASH RD

RIC 2013-DF-051

RHODE ISLAND
DEPARTMENT OF TRANSPORTATION

HURRICANE SANDY
CLEAN, FLUSH, AND VIDEO
DRAINAGE SYSTEMS

STATEWIDE

RHODE ISLAND

SUCCOTASH RD SOUTH KINGSTOWN

CHECKED BY _____

DATE _____

SCALE 1"=2000'

FED. ROAD DIV. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
1	R. I.	SRI 5203-001		1	41

INDEX

Sheet No	Description
1	COVER SHEET
2	TYPICAL SECTION
3-5	GENERAL PLANS & PROFILE 1-3
6-7	GRADE PLAN 1-2
8-9	LOCATION PLAN 1-2
10-12	DELINEATOR SIGNING AND PAVEMENT MARKING SHEET 1-3
13-24	RHODE ISLAND STANDARD STRUCTURES
25-41	CROSS SECTIONS

STATE OF RHODE ISLAND

DEPARTMENT OF TRANSPORTATION

DIVISION OF PUBLIC WORKS

PLAN, PROFILE AND SECTIONS OF PROPOSED

STATE HIGHWAY

SUCCOTASH ROAD

SOUTH KINGSTOWN NARRAGANSETT

WASHINGTON COUNTY

R.I. CONTRACT NO. 7814
R.I. PROJECT NO. SRI-5203-001

1 1/2" BITUMINOUS SURFACE COURSE TYPE I-1
1 1/2" BITUMINOUS BINDER COURSE MODIFIED
5" PLANT MIX BASE COURSE
12" GRAVEL BORROW SUBBASE COURSE

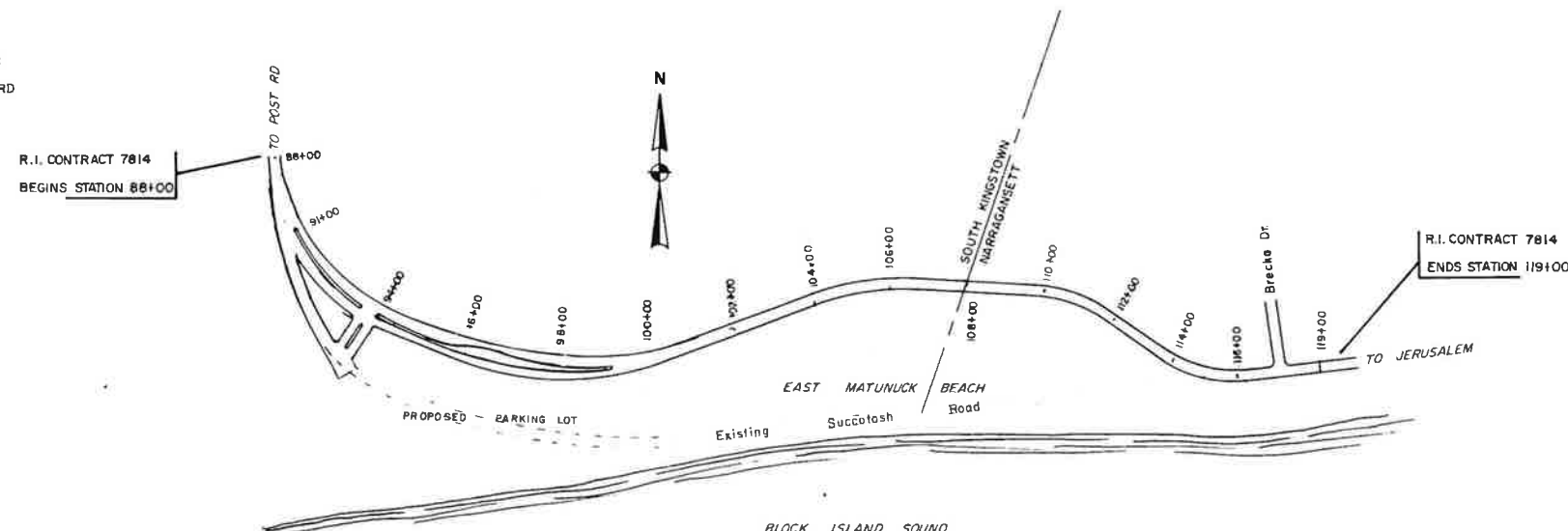
0.587 MILES

R.I. STANDARD STRUCTURES

RHODE ISLAND SPECIFICATIONS AND STANDARD DETAILS

SPECIFICATIONS TO GOVERN THIS PROJECT ARE RHODE ISLAND STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, REVISION OF 1971 WITH LATEST REVISIONS, JUNE 1, 1974, AND STATE AND FEDERAL SPECIAL PROVISIONS INCLUDED IN THE CONTRACT DOCUMENTS. STANDARD DETAILS FOR THIS PROJECT ARE RHODE ISLAND STANDARD DETAILS, DATED 1974, WITH LATEST REVISIONS THROUGH MAY 1, 1976. THE FOLLOWING STANDARD DETAILS ARE INCLUDED IN THIS PROJECT:

STD. NO.	DESCRIPTION
7.21	PRECAST CONC. CURB
7.24	PRECAST CONC. TRANSITION CURB
4.13	PRECAST DROP INLET
4.14	PRECAST DROP INLET
5.12	SQUARE FRAME & GRATE
2.9	END SECTION
4.4	C.B. TYPE "F"
4.6	C.B. TYPE "R"
3.1	MANHOLE
2.12	RIP-RAP
14.3	HIGHWAY BOUND
34.0	STL. BEAM GUARD RAIL
5.14	ROUND FRAME & GRATE
5.22	ROUND FRAME & COVER
5.31, 5.32, 5.35	CAST IRON STEPS
9.1	BALED HAY EROSION
9.2	BALED HAY DITCH EROSION
24.0 - 25.2	REGULATORY & WARNING SIGN MOUNTINGS
25.5, 25.7	CONSTRUCTION & TEMPORARY SIGN MOUNTINGS
26.0, 26.3, 26.4, 26.6	BARRICADES
27.0, 28.0	REGULATORY & WARNING SIGNS
29.0	GUIDE SIGNS & CONSTRUCTION SIGNS
44.2	PRECAST MEDIAN MARKER

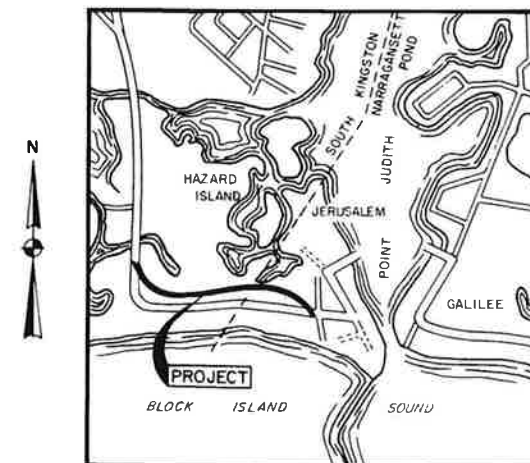


LAYOUT

Scale 1" = 200'

BASE OF LEVELS

M S L




LOCATION MAP

DESIGN DESIGNATION

SOUTH KINGSTOWN - NARRAGANSETT
SUCCOTASH RD.

AADT 1975	4000
AADT 1990	6400
DHV	12%±
DDHV	60-40
TRUCKS (%)	Variable
V	30 MPH

NOTE:

MARKING SHOWN THUS  DENOTES: AS BUILT, PER RESIDENTS' ENGINEER DRAWING IN FIELD. ONLY MATERIAL SHOWN ON THOSE PLANS IS INCLUDED HERE.



Contract Number 7814
Number of Sheet 1
Total Sheets 41

R.I. DEPARTMENT OF TRANSPORTATION DIVISION OF PUBLIC WORKS	
APPROVED <i>Joshua N. Chopy</i> CHIEF ENGINEER	2/14/79 DATE
APPROVED <i>[Signature]</i> DIRECTOR	 DATE
DEPARTMENT OF TRANSPORTATION FEDERAL HIGHWAY ADMINISTRATION	
APPROVED	
DIVISION ADMINISTRATOR	DATE

FED. ROAD DIV. NO.	STATE	FEDERAL AID PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEET
	R.I.	SRI-5201-001		3	41

LEGEND

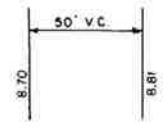
- (E) 4" CEMENT CONC. WITH 1/4" CORK EXPANSION JOINTS 3 1/2" DEEP
- (G) 24" C/C - DUMMY JOINTS, 1" DEEP, 4" C/C
- (K) R.I. STD. 7.21 PRECAST CONC. CURB
- (M) R.I. STD. 7.24 PRECAST CONC. TRANSITION CURB
- (N) BRICK DROP INLET WITH R.I. STD. 5.12 FRAME & GRATE (4 FLANGE)
- (P) R.I. STD. 5.12 SQUARE FRAME & GRATE
- (R) R.I. STD. 2.9 END SECTION
- (S) 15" CORR. ARCH PIPE
- (T) R.I. STD. 4.4 C.B. TYPE F
- (U) R.I. STD. 4.6 C.B. TYPE R
- (V) R.I. STD. 3.1 M.H.
- (W) RIP-RAP CLASS "B" (DUMPED) R.I. STD. 2.12 WITH 6" PIPE BEDDING CLASS "C"
- (X) EXISTING HIGHWAY BOUND
- (Y) NEW HIGHWAY BOUND
- (Z) R.I. STD. 34.0 STEEL BEAM G.R.
- (AA) R.I. STD. 34.5 ANCHORAGE APPROACH SECTION
- (BB) R & D EXISTING PAVEMENT
- (CC) DUMPED STONE RIP-RAP CLASS "B" WITH 6" PIPE BEDDING CLASS "C"
- (DD) PRECAST REFLECTORIZED MEDIAN MARKER R.I. STD. 4.4.2
- (EE) 4" LOAM BORROW AND TYPE 2 SEEDING
- (FF) EXISTING POLE LOCATION
- (GG) PROPOSED POLE LOCATION
- (HH) PROPOSED GUY POLE

NOTE:
G.R. EXTENDS TO STA 88+00 LT & RT

R.I. CONTRACT 7814
BEGINS STA 88+00

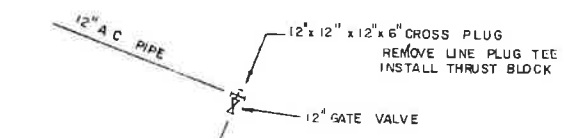
CURVE NO.	(1)	(2)	(3)	(7)	(8)	(9)
A	25°-04'-00"	56°-26'-26"	48°-17'-21"	56°-26'-26"	48°-17'-21"	48°-17'-21"
TAN	200.00'	160.00'	309.00'	121.17'	255.28'	200.00'
ARC	393.60'	293.70'	564.06'	222.42'	479.97'	376.04'
RAD	899.66'	298.15'	669.26'	225.79'	569.50'	446.17'

13
25°-04'-00"
188.88'
371.72'
649.66'

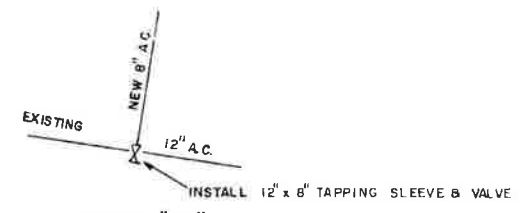


LEGEND
CLEAN, FLUSH AND VIDEO DRAINAGE SYSTEM

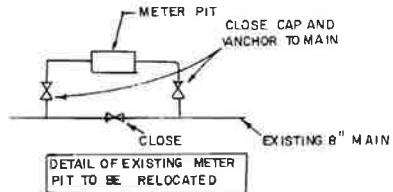
HRS-032



DETAIL "AA"
EXISTING WATER LINE JUNCTION



DETAIL "BB"



DETAIL OF EXISTING METER PIT TO BE RELOCATED

88+00	8.65	8.70	8.75	8.81	8.87	8.93	8.99	9.05	9.11	9.17	9.23	9.29	9.35	9.41	9.47	9.53	9.59	9.65	9.71	9.77	9.83	9.89	9.95	10.01	10.07	10.13	10.19	10.25	10.31	10.37	10.43	10.49	10.55	10.61	10.67	10.73	10.79	10.85	10.91	10.97	11.03	11.09	11.15	11.21	11.27	11.33	11.39	11.45	11.51	11.57	11.63	11.69	11.75	11.81	11.87	11.93	11.99	12.05	12.11	12.17	12.23	12.29	12.35	12.41	12.47	12.53	12.59	12.65	12.71	12.77	12.83	12.89	12.95	13.01	13.07	13.13	13.19	13.25	13.31	13.37	13.43	13.49	13.55	13.61	13.67	13.73	13.79	13.85	13.91	13.97	14.03	14.09	14.15	14.21	14.27	14.33	14.39	14.45	14.51	14.57	14.63	14.69	14.75	14.81	14.87	14.93	14.99	15.05	15.11	15.17	15.23	15.29	15.35	15.41	15.47	15.53	15.59	15.65	15.71	15.77	15.83	15.89	15.95	16.01	16.07	16.13	16.19	16.25	16.31	16.37	16.43	16.49	16.55	16.61	16.67	16.73	16.79	16.85	16.91	16.97	17.03	17.09	17.15	17.21	17.27	17.33	17.39	17.45	17.51	17.57	17.63	17.69	17.75	17.81	17.87	17.93	17.99	18.05	18.11	18.17	18.23	18.29	18.35	18.41	18.47	18.53	18.59	18.65	18.71	18.77	18.83	18.89	18.95	19.01	19.07	19.13	19.19	19.25	19.31	19.37	19.43	19.49	19.55	19.61	19.67	19.73	19.79	19.85	19.91	19.97	20.03	20.09	20.15	20.21	20.27	20.33	20.39	20.45	20.51	20.57	20.63	20.69	20.75	20.81	20.87	20.93	20.99	21.05	21.11	21.17	21.23	21.29	21.35	21.41	21.47	21.53	21.59	21.65	21.71	21.77	21.83	21.89	21.95	22.01	22.07	22.13	22.19	22.25	22.31	22.37	22.43	22.49	22.55	22.61	22.67	22.73	22.79	22.85	22.91	22.97	23.03	23.09	23.15	23.21	23.27	23.33	23.39	23.45	23.51	23.57	23.63	23.69	23.75	23.81	23.87	23.93	23.99	24.05	24.11	24.17	24.23	24.29	24.35	24.41	24.47	24.53	24.59	24.65	24.71	24.77	24.83	24.89	24.95	25.01	25.07	25.13	25.19	25.25	25.31	25.37	25.43	25.49	25.55	25.61	25.67	25.73	25.79	25.85	25.91	25.97	26.03	26.09	26.15	26.21	26.27	26.33	26.39	26.45	26.51	26.57	26.63	26.69	26.75	26.81	26.87	26.93	26.99	27.05	27.11	27.17	27.23	27.29	27.35	27.41	27.47	27.53	27.59	27.65	27.71	27.77	27.83	27.89	27.95	28.01	28.07	28.13	28.19	28.25	28.31	28.37	28.43	28.49	28.55	28.61	28.67	28.73	28.79	28.85	28.91	28.97	29.03	29.09	29.15	29.21	29.27	29.33	29.39	29.45	29.51	29.57	29.63	29.69	29.75	29.81	29.87	29.93	29.99	30.05	30.11	30.17	30.23	30.29	30.35	30.41	30.47	30.53	30.59	30.65	30.71	30.77	30.83	30.89	30.95	31.01	31.07	31.13	31.19	31.25	31.31	31.37	31.43	31.49	31.55	31.61	31.67	31.73	31.79	31.85	31.91	31.97	32.03	32.09	32.15	32.21	32.27	32.33	32.39	32.45	32.51	32.57	32.63	32.69	32.75	32.81	32.87	32.93	32.99	33.05	33.11	33.17	33.23	33.29	33.35	33.41	33.47	33.53	33.59	33.65	33.71	33.77	33.83	33.89	33.95	34.01	34.07	34.13	34.19	34.25	34.31	34.37	34.43	34.49	34.55	34.61	34.67	34.73	34.79	34.85	34.91	34.97	35.03	35.09	35.15	35.21	35.27	35.33	35.39	35.45	35.51	35.57	35.63	35.69	35.75	35.81	35.87	35.93	35.99	36.05	36.11	36.17	36.23	36.29	36.35	36.41	36.47	36.53	36.59	36.65	36.71	36.77	36.83	36.89	36.95	37.01	37.07	37.13	37.19	37.25	37.31	37.37	37.43	37.49	37.55	37.61	37.67	37.73	37.79	37.85	37.91	37.97	38.03	38.09	38.15	38.21	38.27	38.33	38.39	38.45	38.51	38.57	38.63	38.69	38.75	38.81	38.87	38.93	38.99	39.05	39.11	39.17	39.23	39.29	39.35	39.41	39.47	39.53	39.59	39.65	39.71	39.77	39.83	39.89	39.95	40.01	40.07	40.13	40.19	40.25	40.31	40.37	40.43	40.49	40.55	40.61	40.67	40.73	40.79	40.85	40.91	40.97	41.03	41.09	41.15	41.21	41.27	41.33	41.39	41.45	41.51	41.57	41.63	41.69	41.75	41.81	41.87	41.93	41.99	42.05	42.11	42.17	42.23	42.29	42.35	42.41	42.47	42.53	42.59	42.65	42.71	42.77	42.83	42.89	42.95	43.01	43.07	43.13	43.19	43.25	43.31	43.37	43.43	43.49	43.55	43.61	43.67	43.73	43.79	43.85	43.91	43.97	44.03	44.09	44.15	44.21	44.27	44.33	44.39	44.45	44.51	44.57	44.63	44.69	44.75	44.81	44.87	44.93	44.99	45.05	45.11	45.17	45.23	45.29	45.35	45.41	45.47	45.53	45.59	45.65	45.71	45.77	45.83	45.89	45.95	46.01	46.07	46.13	46.19	46.25	46.31	46.37	46.43	46.49	46.55	46.61	46.67	46.73	46.79	46.85	46.91	46.97	47.03	47.09	47.15	47.21	47.27	47.33	47.39	47.45	47.51	47.57	47.63	47.69	47.75	47.81	47.87	47.93	47.99	48.05	48.11	48.17	48.23	48.29	48.35	48.41	48.47	48.53	48.59	48.65	48.71	48.77	48.83	48.89	48.95	49.01	49.07	49.13	49.19	49.25	49.31	49.37	49.43	49.49	49.55	49.61	49.67	49.73	49.79	49.85	49.91	49.97	50.03	50.09	50.15	50.21	50.27	50.33	50.39	50.45	50.51	50.57	50.63	50.69	50.75	50.81	50.87	50.93	50.99	51.05	51.11	51.17	51.23	51.29	51.35	51.41	51.47	51.53	51.59	51.65	51.71	51.77	51.83	51.89	51.95	52.01	52.07	52.13	52.19	52.25	52.31	52.37	52.43	52.49	52.55	52.61	52.67	52.73	52.79	52.85	52.91	52.97	53.03	53.09	53.15	53.21	53.27	53.33	53.39	53.45	53.51	53.57	53.63	53.69	53.75	53.81	53.87	53.93	53.99	54.05	54.11	54.17	54.23	54.29	54.35	54.41	54.47	54.53	54.59	54.65	54.71	54.77	54.83	54.89	54.95	55.01	55.07	55.13	55.19	55.25	55.31	55.37	55.43	55.49	55.55	55.61	55.67	55.73	55.79	55.85	55.91	55.97	56.03	56.09	56.15	56.21	56.27	56.33	56.39	56.45	56.51	56.57	56.63	56.69	56.75	56.81	56.87	56.93	56.99	57.05	57.11	57.17	57.23	57.29	57.35	57.41	57.47	57.53	57.59	57.65	57.71	57.77	57.83	57.89	57.95	58.01	58.07	58.13	58.19	58.25	58.31	58.37	58.43	58.49	58.55	58.61	58.67	58.73	58.79	58.85	58.91	58.97	59.03	59.09	59.15	59.21	59.27	59.33	59.39	59.45	59.51	59.57	59.63	59.69	59.75	59.81	59.87	59.93	59.99	60.05	60.11	60.17	60.23	60.29	60.35	60.41	60.47	60.53	60.59	60.65	60.71	60.77	60.83	60.89	60.95	61.01	61.07	61.13	61.19	61.25	61.31	61.37	61.43	61.49	61.55	61.61	61.67	61.73	61.79	61.85	61.91	61.97	62.03	62.09	62.15	62.21	62.27	62.33	62.39	62.45	62.51	62.57	62.63	62.69	62.75	62.81	62.87	62.93	62.99	63.05	63.11	63.17	63.23	63.29	63.35	63.41	63.47	63.53	63.59	63.65	63.71	63.77	63.83	63.89	63.95	64.01	64.07	64.13	64.19	64.25	64.31	64.37	64.43	64.49	64.55	64.61	64.67	64.73	64.79	64.85	64.91	64.97	65.03	65.09	65.15	65.21	65.27	65.33	65.39	65.45	65.51	65.57	65.63	65.69	65.75	65.81	65.87	65.93	65.99	66.05	66.11	66.17	66.23	66.29	66.35	66.41	66.47	66.53	66.59	66.65	66.71	66.77	66.83	66.89	66.95	67.01	67.07	67.13	67.19	67.25	67.31	67.37	67.43	67.49	67.55	67.61	67.67	67.73	67.79	67.85	67.91	67.97	68.03	68.09	68.15	68.21	68.27	68.33	68.39	68.45	68.51	68.57	68.63	68.69	68.75	68.81	68.87	68.93	68.99	69.05	69.11	69.17	69.23	69.29	69.35	69.41	69.47	69.53	69.59	69.65	69.71	69.77	69.83	69.89	69.95	70.01	70.07	70.13	70.19	70.25	70.31	70.37	70.43	70.49	70.55	70.61	70.67	70.73	70.79	70.85	70.91
89+00	8.87	8.93	8.99	9.05	9.11	9.17	9.23	9.29	9.35	9.41	9.47	9.53	9.59	9.65	9.71	9.77	9.83	9.89	9.95	10.01	10.07	10.13	10.19	10.25	10.31	10.37	10.43	10.49	10.55	10.61	10.67	10.73	10.79	10.85	10.91	10.97	11.03	11.09	11.15	11.21	11.27	11.33	11.39	11.45	11.51	11.57	11.63	11.69	11.75	11.81	11.87	11.93	11.99	12.05	12.11	12.17	12.23	12.29	12.35	12.41	12.47	12.53	12.59	12.65	12.71	12.77	12.83	12.89	12.95	13.01	13.07	13.13	13.19	13.25	13.31	13.37	13.43	13.49	13.55	13.61	13.67	13.73	13.79	13.85	13.91	13.97	14.03	14.09	14.15	14.21	14.27	14.33	14.39	14.45	14.51	14.57	14.63	14.69	14.75	14.81	14.87	14.93	14.99	15.05	15.11	15.17	15.23	15.29	15.35	15.41	15.47	15.53	15.59	15.65	15.71	15.77	15.83	15.89	15.95	16.01	16.07	16.13	16.19	16.25	16.31	16.37	16.43	16.49	16.55	16.61	16.67	16.73	16.79	16.85	16.91	16.97	17.03	17.09	17.15	17.21	17.27	17.33	17.39	17.45	17.51	17.57	17.63	17.69	17.75	17.81	17.87	17.93	17.99	18.05	18.11	18.17	18.23	18.29	18.35	18.41	18.47	18.53	18.59	18.65	18.71	18.77	18.83	18.89	18.95	19.01	19.07	19.13	19.19	19.25	19.31	19.37	19.43	19.49	19.55	19.61	19.67	19.73	19.79	19.85	19.91	19.97	20.03	20.09	20.15	20.21	20.27	20.33	20.39	20.45	20.51	20.57	20.63	20.69	20.75	20.81	20.87</																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						

HURRICANE SANDY DAMAGE INVENTORY

CITY OF NEWPORT DECEMBER 7, 2012

MEMORIAL BOULEVARD

HRS-033

Waves and flooding have filled drainage structures and pipes along Memorial Boulevard/Purgatory Road.

The restoration of the drainage structures and pipes shall include the following:

- Cleaning catch basins and manholes eastbound and westbound
- Cleaning and flushing pipes
- Excavating sand and debris from roadway and sidewalks
- Cleaning and sweeping roadway and sidewalks where sand and debris is excavated
- 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.
- Traffic Control shall conform to the 2009 Manual on Uniform Traffic Control Devices and attached temporary traffic control setups.

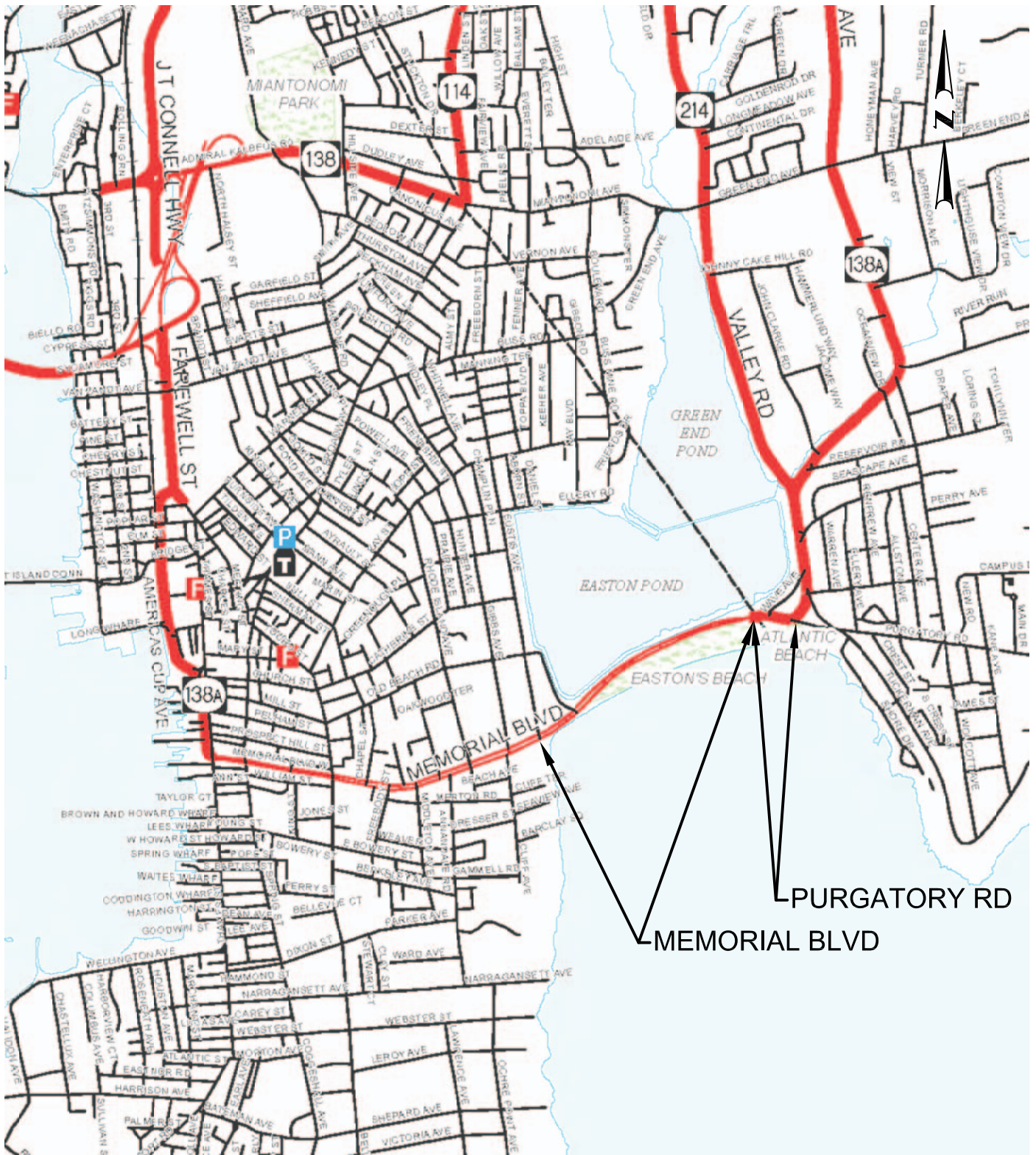
The limits of work are from Eustis Avenue to Aquidneck Road (Memorial Boulevard becomes Purgatory Road in Middletown).

The Contractor should note there is a water line present in some of the drainage structures.

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

The Contractor shall perform the clean/flush and chase to the outfall to ensure that the system is cleaned out properly. If the outfall is clogged with debris, then it shall be cleared up to a maximum distance of ten feet beyond the outfall to allow for full operation of the drainage system. Payment for clearing each outfall shall be included in the lump sum prices for cleaning and flushing the drainage system. The contractor shall also provide erosion and sediment control measures at each outfall. The estimated quantities for this site are listed below.

HRS-033 Newport - Memorial Boulevard		
Description	Quantity	Unit
CLEANING AND FLUSHING PIPE UNKNOWN SIZES	3475	LF
CLEAN & FLUSH PIPE CONTINGENCY TO OUTFALL UNKNOWN SIZES	1100	LF
EROSION CONTROL AT OUTFALL	220	LF
CLEANING CATCH BASINS ALL TYPES AND SIZES	53	EA
CLEANING MANHOLES ALL TYPES AND SIZES	1	EA
CLEANING AND SWEEPING PAVEMENT	10	HSY
EARTH EXCAVATION	200	CY



RIC 2013-DF-051

RHODE ISLAND
DEPARTMENT OF TRANSPORTATION

HURRICANE SANDY
CLEAN, FLUSH, AND VIDEO
DRAINAGE SYSTEMS

STATEWIDE

RHODE ISLAND

MEMORIAL BOULEVARD NEWPORT

FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
1	R.I.	STP-AWDA(005) STP-ENHR(121)		1	9

SHEET NO.	DESCRIPTION
1	COVER SHEET
2	LEGEND & GENERAL NOTES
3 - 4	TYPICAL DETAIL SHEETS 1 AND 2
5 - 9	GENERAL PLAN NOS. B1-B5

STATE OF RHODE ISLAND

DEPARTMENT OF TRANSPORTATION

PLAN OF PROPOSED IMPROVEMENTS

STATEWIDE ADA COMPLIANCE PROJECT

ACCESSIBILITY IMPROVEMENTS MEMORIAL BOULEVARD

PHASE B

FROM: RHODE ISLAND AVENUE TO: AQUIDNECK AVENUE

CITY OF NEWPORT

ACCESSIBILITY IMPROVEMENTS WEST MAIN ROAD

FROM: BOULEVARD TO: LINDEN SCHOOL

TOWN OF MIDDLETOWN

COUNTY OF NEWPORT, RHODE ISLAND

R.I. STANDARD SPECIFICATIONS AND STANDARD DETAILS

SPECIFICATIONS TO GOVERN THIS PROJECT ARE R.I. STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, 1997, AND; THE STATE AND FEDERAL SPECIAL PROVISIONS INCLUDED IN THE CONTRACT DOCUMENTS. STANDARD DETAILS FOR THIS PROJECT ARE THE R.I. STANDARD DETAILS AS INCLUDED.

SEE SHEET 2 FOR A LIST OF THE DETAILS USED IN THIS PROJECT.

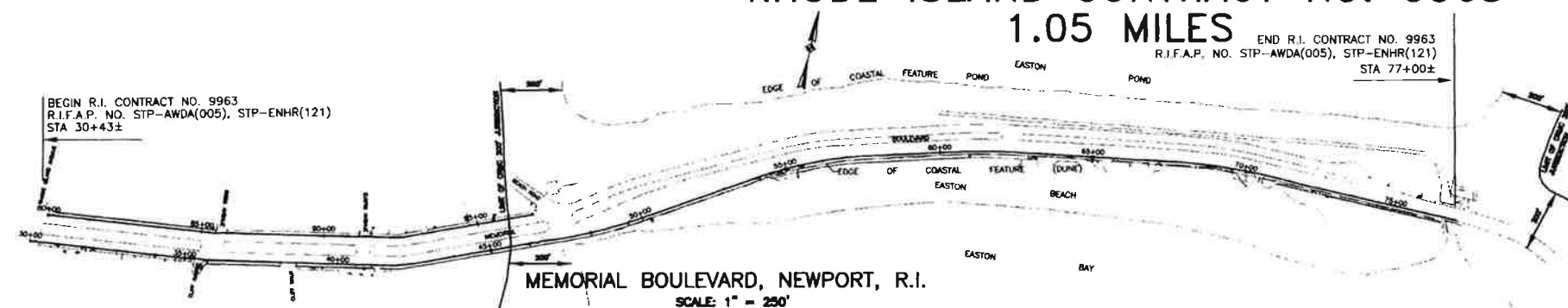
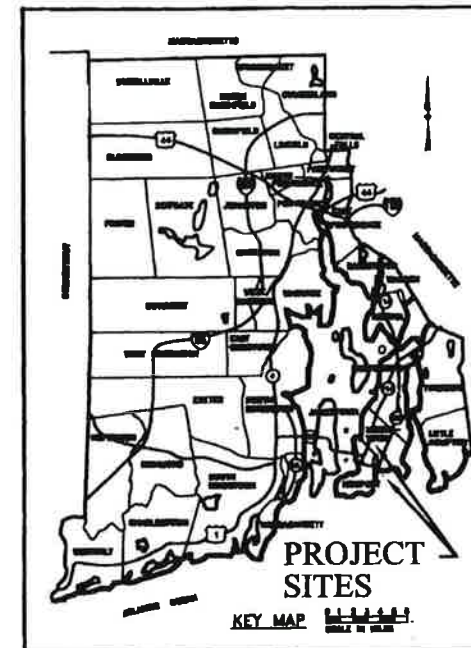
ALL WORK ON THIS PROJECT SHALL CONFORM TO THE STANDARD DETAILS, REVISED JUNE 15, 1998. IT IS THE CONTRACTORS RESPONSIBILITY TO BECOME FAMILIAR WITH THE REVISED STANDARD DETAILS. COPIES OF THESE ARE NOT PROVIDED WITH THIS PLAN SET.

RHODE ISLAND FEDERAL AID PROJECT NOS. STP-AWDA(005), STP-ENHR(121)

RHODE ISLAND CONTRACT NO. 9963

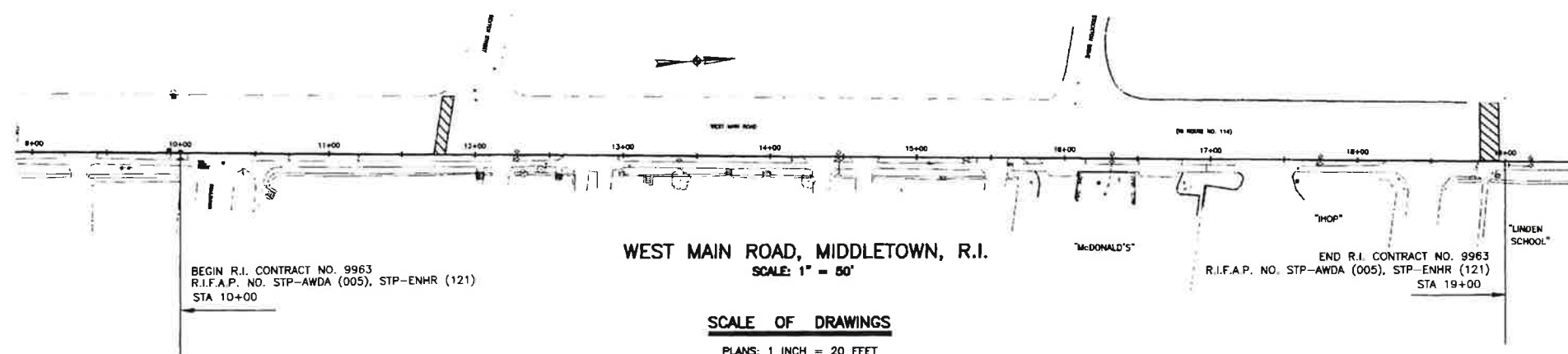
1.05 MILES

END R.I. CONTRACT NO. 9963
R.I.F.A.P. NO. STP-AWDA(005), STP-ENHR(121)
STA 77+00±



LEGEND

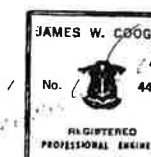
CLEAN, FLUSH, AND VIDEO DRAINAGE SYSTEM



SCALE OF DRAWINGS

PLANS: 1 INCH = 20 FEET

BASE OF LEVELS
PROJECT ASSUMED DATUM



Maguire Group Inc.
Architects/Engineers/Planners
One Davol Square
Providence, Rhode Island 02903

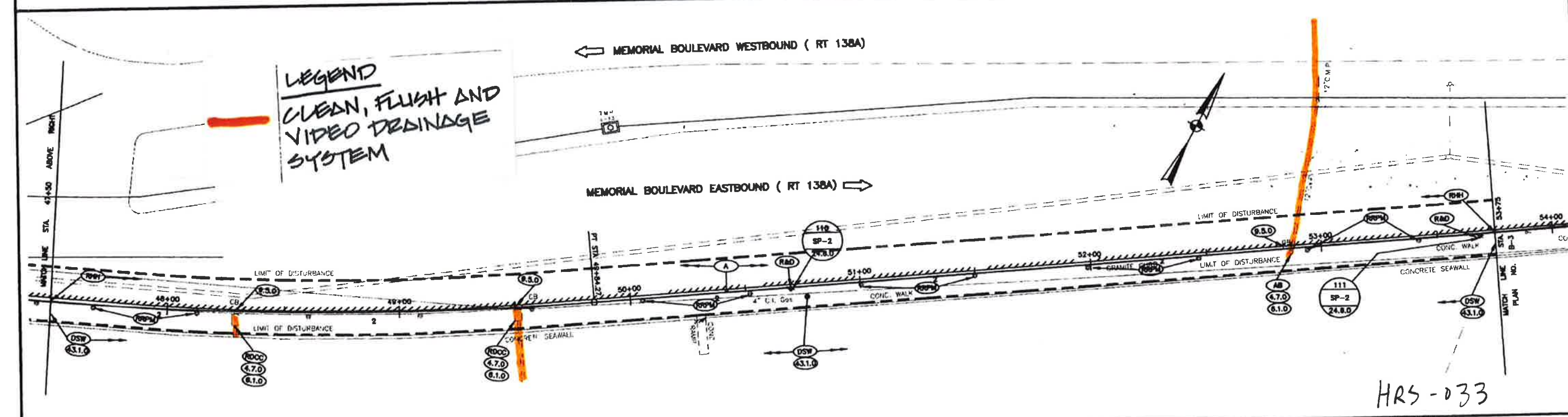
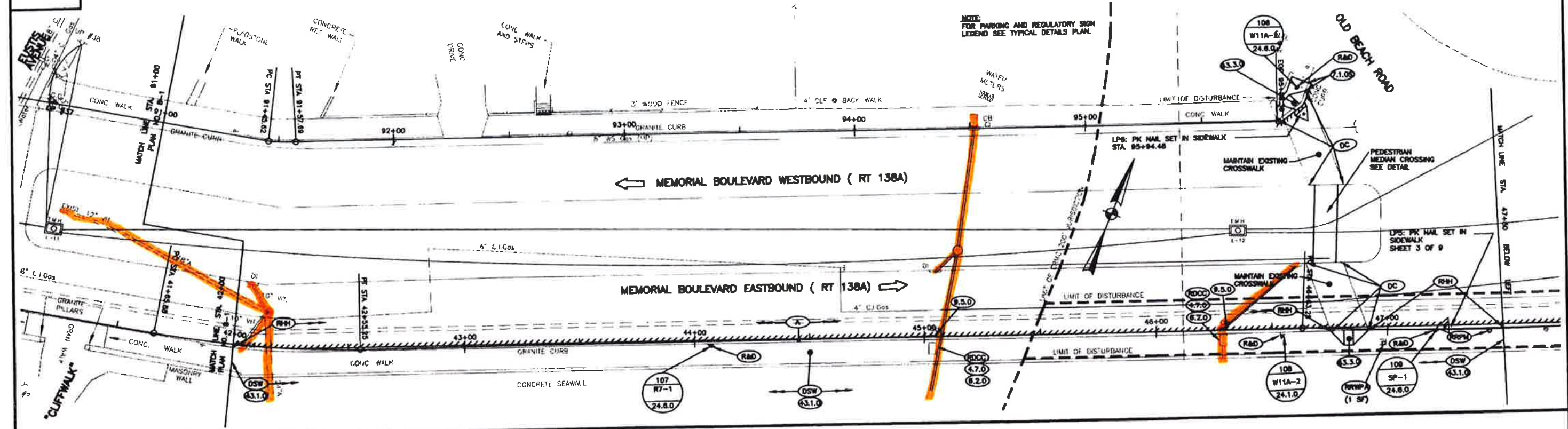
Contract Number 9963

Sheet Number 1


Total Sheets 9

R.I. DEPARTMENT OF TRANSPORTATION	
APPROVED <i>J. Michael Bennett</i> CHIEF DESIGN ENGINEER	8/4/99 DATE
APPROVED <i>Edward P. Arel</i> CHIEF ENGINEER	8/4/99 DATE
APPROVED <i>H. J. G. [Signature]</i> DIRECTOR	8-4-99 DATE
DEPARTMENT OF TRANSPORTATION FEDERAL HIGHWAY ADMINISTRATION	
APPROVED	
DIVISION ADMINISTRATION	DATE


PROJECT NO.	SHEET NO.	PROJECT NAME	DATE	BY	CHKD	APPD	TITLE
1	R.I.						



HRS-033



Maguire Group Inc.
Architects/Engineers/Planners
One Davol Square
Providence, Rhode Island 02903



RHODE ISLAND
DEPARTMENT OF TRANSPORTATION

SCALE: 1" = 20'

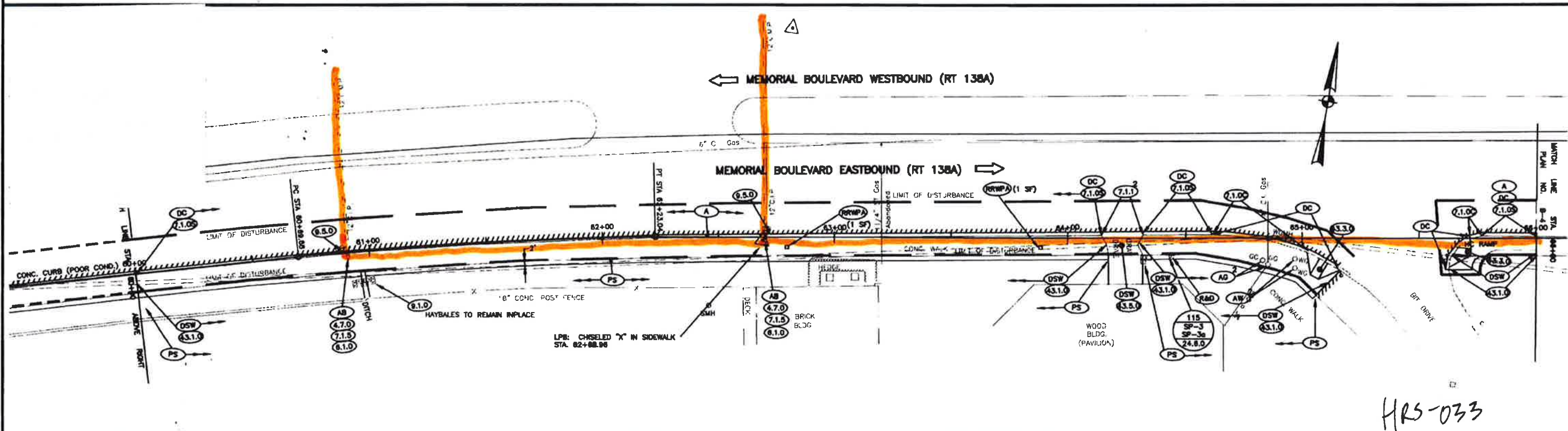
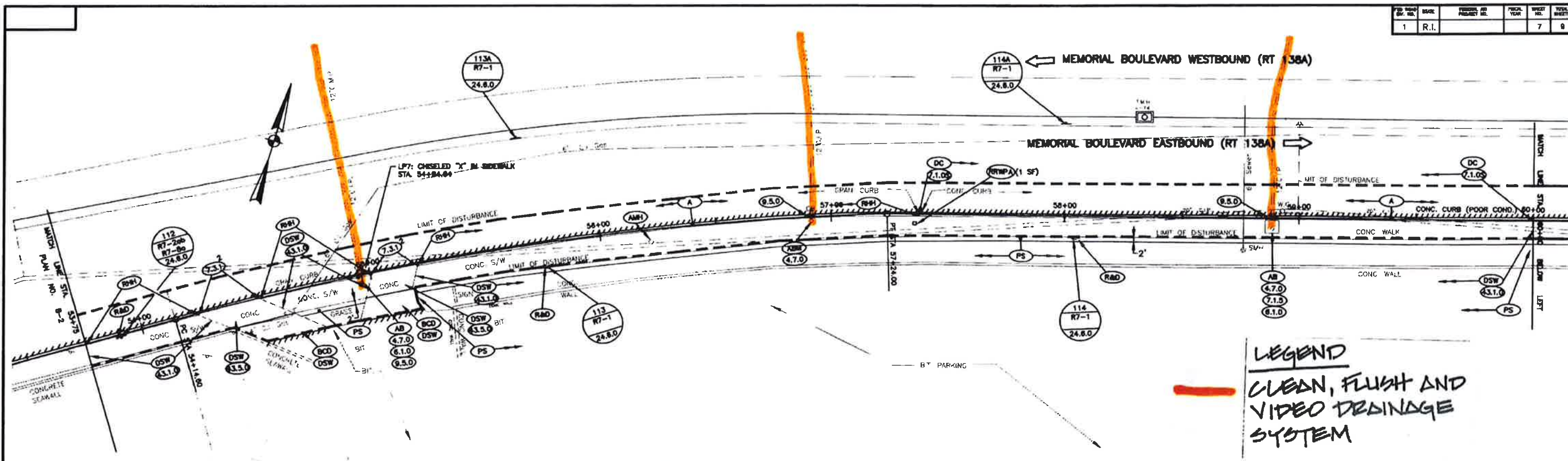
DESIGNED BY: DATE: JUL, 1999

CHECKED: SHEET 6 OF 9

STATEWIDE
ADA COMPLIANCE PROJECT
ACCESSIBILITY IMPROVEMENTS
MEMORIAL BOULEVARD - PHASE B
WEST MAIN ROAD
GENERAL PLAN NO. B-2

R1 9963

NO.	DATE	BY	NO.	DATE	BY
1	R.I.		7		



HRS-033

Maguire Group Inc.
 Architects/Engineers/Planners
 One Davol Square
 Providence, Rhode Island 02903



RHODE ISLAND
 DEPARTMENT OF TRANSPORTATION

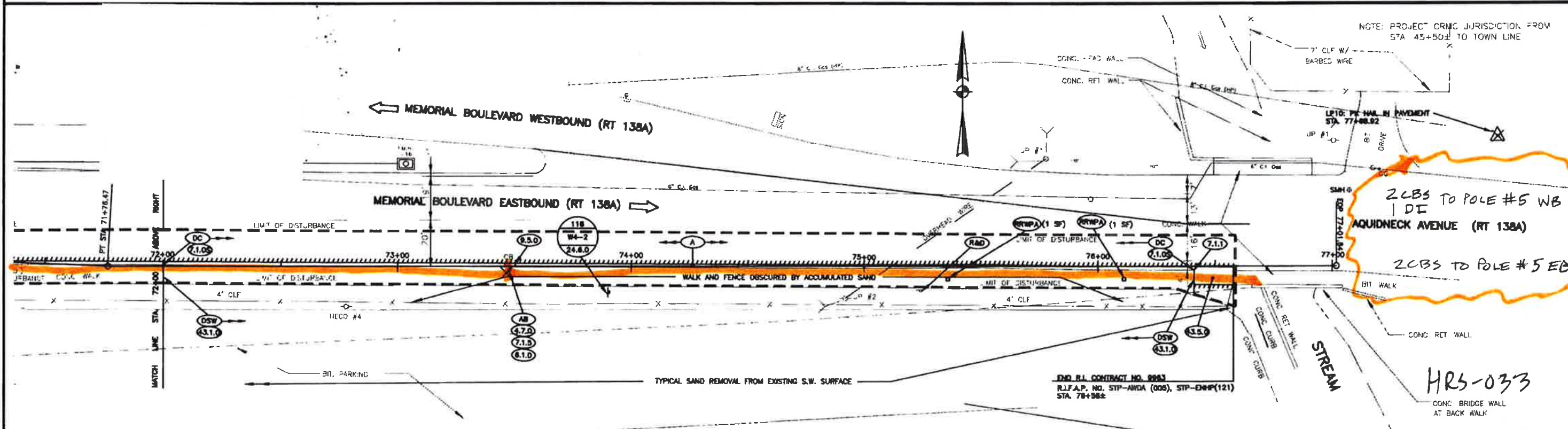
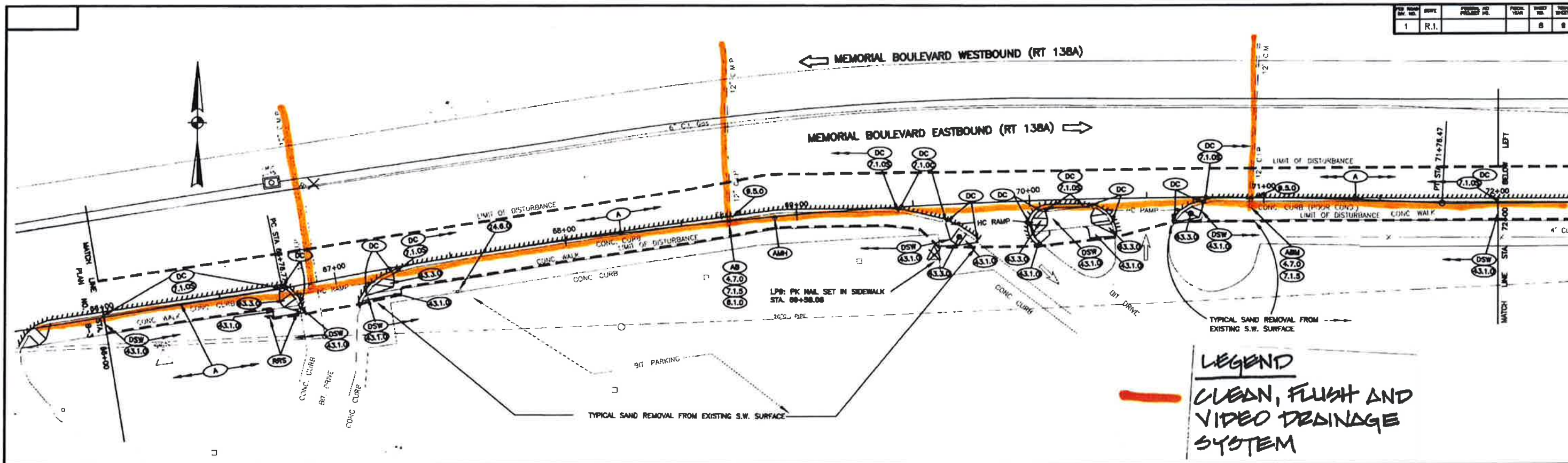
NO.	DATE	BY	NO.	DATE	BY

SCALE: 1" = 20'
 DESIGNED BY: DATE: AUG. 1988
 CHECKED: SHEET 7 OF 9

STATEWIDE
 ADA COMPLIANCE PROJECT
 ACCESSIBILITY IMPROVEMENTS
 MEMORIAL BOULEVARD - PHASE B
 WEST MAIN ROAD
 GENERAL PLAN NO. B-3
 NEWPORT/MIDDLETOWN
 RHODE ISLAND

RI 9963

REV	DATE	BY	REVISION	DATE	BY
1	R.I.				



Maguire Group Inc.
Architects/Engineers/Planners
One Davol Square
Providence, Rhode Island 02903



RHODE ISLAND
DEPARTMENT OF TRANSPORTATION

REVISIONS			REVISIONS		
NO.	DATE	BY	NO.	DATE	BY

STATEWIDE
ADA COMPLIANCE PROJECT
ACCESSIBILITY IMPROVEMENTS
MEMORIAL BOULEVARD - PHASE B
WEST MAIN ROAD
GENERAL PLAN NO. B-4
RHODE ISLAND

RI 9963

HURRICANE SANDY DAMAGE INVENTORY

TOWN OF BARRINGTON DECEMBER 7, 2012

NEW MEADOW ROAD

HRS-074

Waves and flooding have filled drainage structures and pipes along New Meadow Road.

The restoration of the drainage structures and pipes shall include the following:

- Cleaning catch basins and manholes
- Cleaning and flushing pipes
- 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.
- 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 south of Crossways Street to north of Meadowbrook Drive (S).

The Contractor shall perform the clean/flush and chase to the outfall to ensure that the system is cleaned out properly. If the outfall is clogged with debris, then it shall be cleared up to a maximum distance of ten feet beyond the outfall to allow for full operation of the drainage system. Payment for clearing each outfall shall be included in the lump sum prices for cleaning and flushing the drainage system. The contractor shall also provide erosion and sediment control measures at each outfall. The estimated quantities for this site are listed below.

HRS-074 Barrington - New Meadow Road

Description	Quantity	Unit
CLEANING AND FLUSHING PIPE UNKNOWN SIZES	300	LF
CLEAN & FLUSH PIPE CONTINGENCY TO OUTFALL UNKNOWN SIZES	400	LF
EROSION CONTROL AT OUTFALL	40	LF
CLEANING CATCH BASINS ALL TYPES AND SIZES	5	EA
CLEANING MANHOLES ALL TYPES AND SIZES	3	EA



RIC 2013-DF-051

RHODE ISLAND
DEPARTMENT OF TRANSPORTATION

HURRICANE SANDY
CLEAN, FLUSH, AND VIDEO
DRAINAGE SYSTEMS

STATEWIDE

RHODE ISLAND

NEW MEADOW ROAD BARRINGTON

FED. ROAD DIV. NO.	STATE	FEDERAL AID PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEET
	R.I.	STP-RESF(061)	04	1	16

STATE OF RHODE ISLAND

DEPARTMENT OF TRANSPORTATION

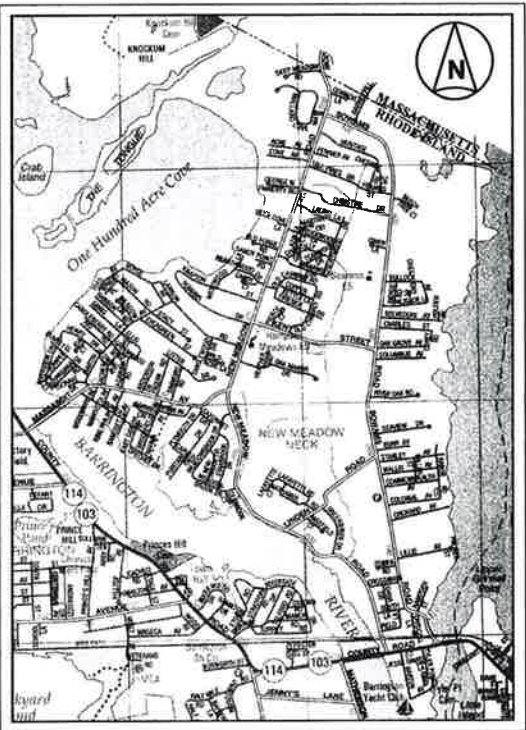
1R IMPROVEMENTS TO

Barneyville Road (Sowams Road to State Line),

Massasoit Avenue (Barrington River Bridge to New Meadow Road),

New Meadow Road (County Road to State Line) &

Sowams Road (County Road to New Meadow Road)



LOCUS MAP
SCALE: 1"=1500'

SHEET NO.	DESCRIPTION
1	COVER SHEET
2	PLAN SYMBOLS AND GENERAL LEGEND
3	CONSTRUCTION DETAILS
4-16	CONSTRUCTION PLAN Nos. 1-13

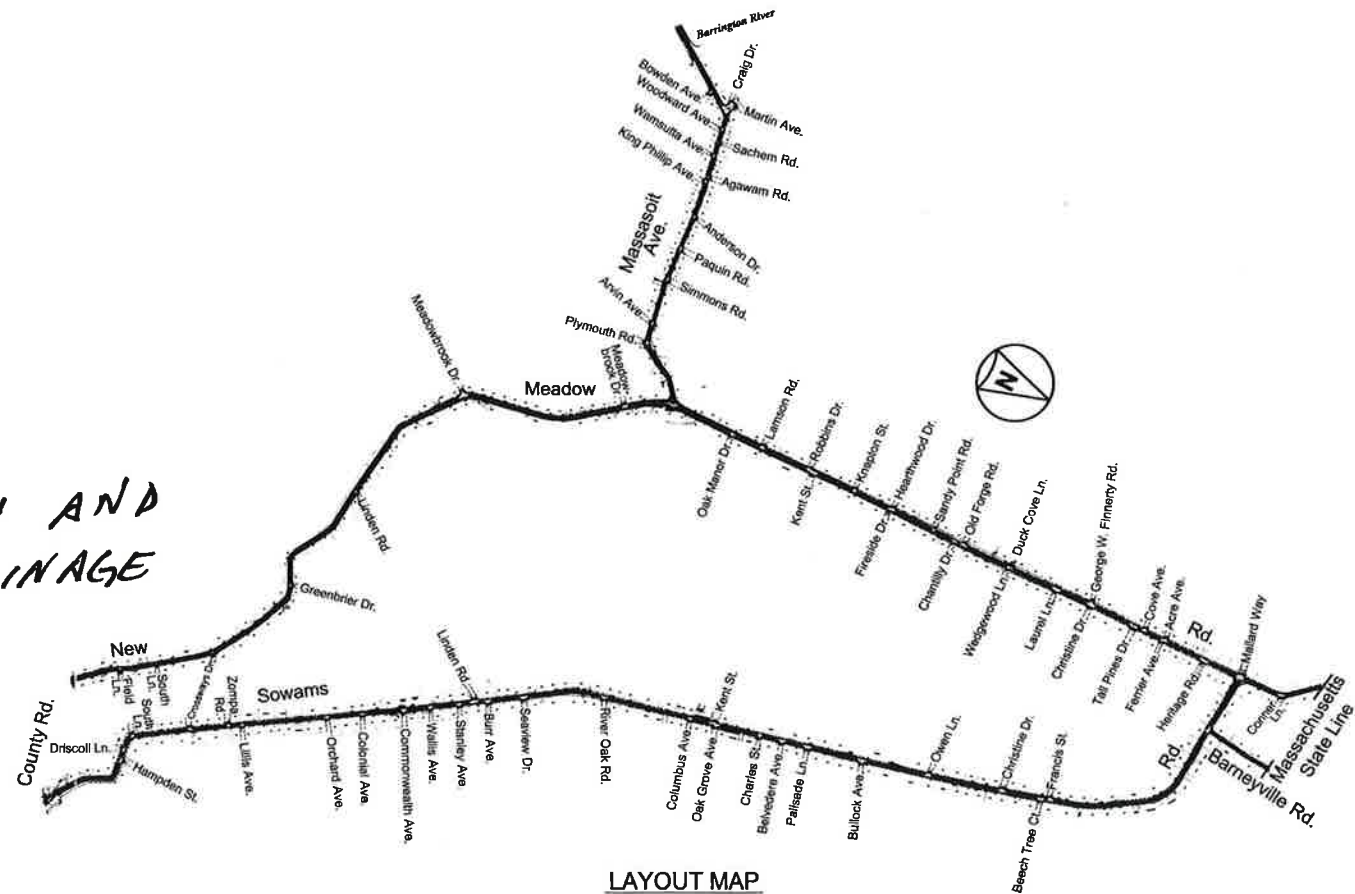
R.I. CONTRACT NO. 2004-CH-027 F.A. PROJECT NO. STP-RESF(061)

R.I. SPECIFICATIONS AND STANDARD DETAILS
SPECIFICATIONS TO GOVERN THIS PROJECT ARE THE R.I. STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, 2004 EDITION, THE STATE AND FEDERAL PROVISIONS IN THE CONTRACT DOCUMENTS, AND THE RHODE ISLAND STANDARD DETAILS, 1998 EDITION, WITH ALL REVISIONS.

LEGEND



CLEAN, FLUSH AND
VIDEO DRAINAGE
SYSTEM



LAYOUT MAP
SCALE: 1"=800'

SCALE OF DRAWINGS

Plans 1 inch = 40 feet

BASE OF LEVELS
NONE

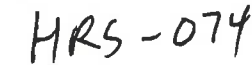
BETA Group, Inc.
Engineers • Scientists • Planners
6 Blackstone Valley Place, Lincoln, RI 02966
phone: 401.333.2382 fax: 401.333.9225
Norwood, MA - Rocky Hill, CT
email: BETA@BETA-inc.com

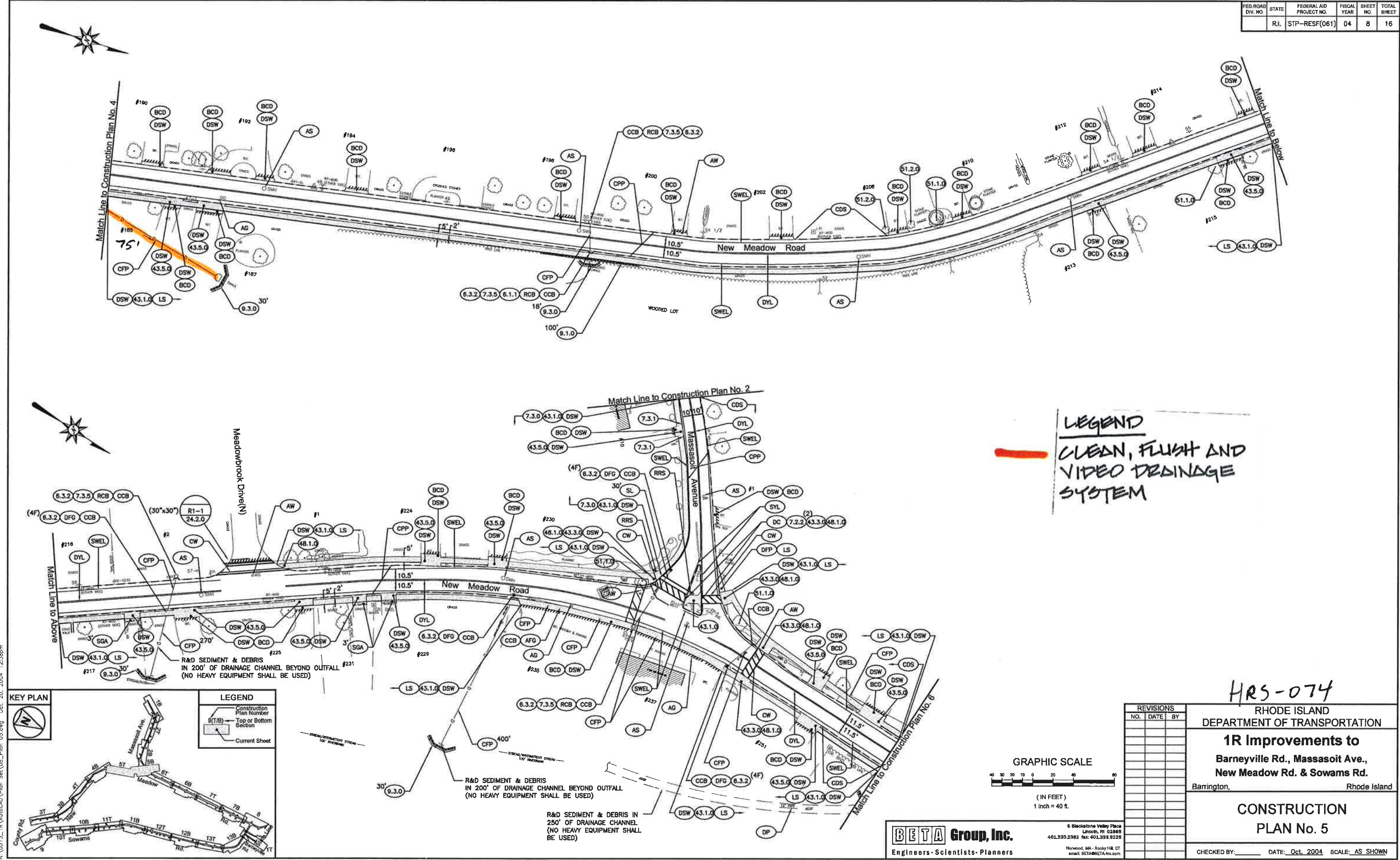


Contract Number 2004-CH-027
Number of Sheet 1
Total Sheets 16

R.I. DEPARTMENT OF TRANSPORTATION	
APPROVED	10/1/04
DEPUTY CHIEF ENGINEER	DATE
APPROVED	10/1/04
CHIEF ENGINEER	DATE
APPROVED	10-1-04
DIRECTOR	DATE
DEPARTMENT OF TRANSPORTATION FEDERAL HIGHWAY ADMINISTRATION	
APPROVED	
DIVISION ADMINISTRATOR	DATE

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N:\0515_1R\4-04\CD\Plan Set\05_Plan_05.cwg Oct. 20, 2004 12:35pm

HURRICANE SANDY DAMAGE INVENTORY

TOWN OF BARRINGTON DECEMBER 7, 2012

SOWAMS ROAD

HRS-075

Waves and flooding have filled drainage structures and pipes along Sowams Road.

The restoration of the drainage structures and pipes shall include the following:

- Cleaning catch basins and manholes
- Cleaning and flushing pipes
- 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.
- 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 County Road to south of Hampden Street.

The Contractor shall perform the clean/flush and chase to the outfall to ensure that the system is cleaned out properly. If the outfall is clogged with debris, then it shall be cleared up to a maximum distance of ten feet beyond the outfall to allow for full operation of the drainage system. Payment for clearing each outfall shall be included in the lump sum prices for cleaning and flushing the drainage system. The contractor shall also provide erosion and sediment control measures at each outfall. The estimated quantities for this site are listed below.

HRS-075 Barrington - Sowams Road		
Description	Quantity	Unit
CLEANING AND FLUSHING PIPE UNKNOWN SIZES	145	LF
EROSION CONTROL AT OUTFALL	40	LF
CLEANING CATCH BASINS ALL TYPES AND SIZES	2	EA



RIC 2013-DF-051

RHODE ISLAND
DEPARTMENT OF TRANSPORTATION

HURRICANE SANDY
CLEAN, FLUSH, AND VIDEO
DRAINAGE SYSTEMS

STATEWIDE

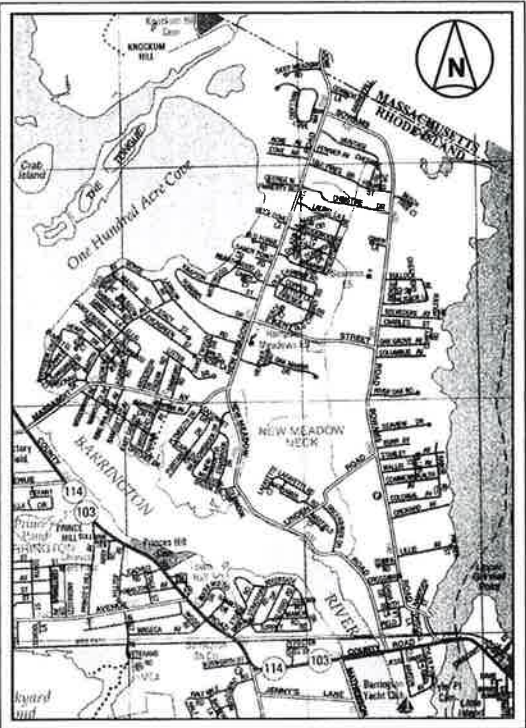
RHODE ISLAND

SOWAMS ROAD BARRINGTON

FED. ROAD DIV. NO.	STATE	FEDERAL AID PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEET
	R.I.	STP-RESF(061)	04	1	16

STATE OF RHODE ISLAND DEPARTMENT OF TRANSPORTATION

1R IMPROVEMENTS TO Barneyville Road (Sowams Road to State Line), Massasoit Avenue (Barrington River Bridge to New Meadow Road), New Meadow Road (County Road to State Line) & Sowams Road (County Road to New Meadow Road)



LOCUS MAP
SCALE: 1"=1500'

SHEET NO.	DESCRIPTION
1	COVER SHEET
2	PLAN SYMBOLS AND GENERAL LEGEND
3	CONSTRUCTION DETAILS
4-16	CONSTRUCTION PLAN Nos. 1-13

TOWN OF BARRINGTON BRISTOL COUNTY

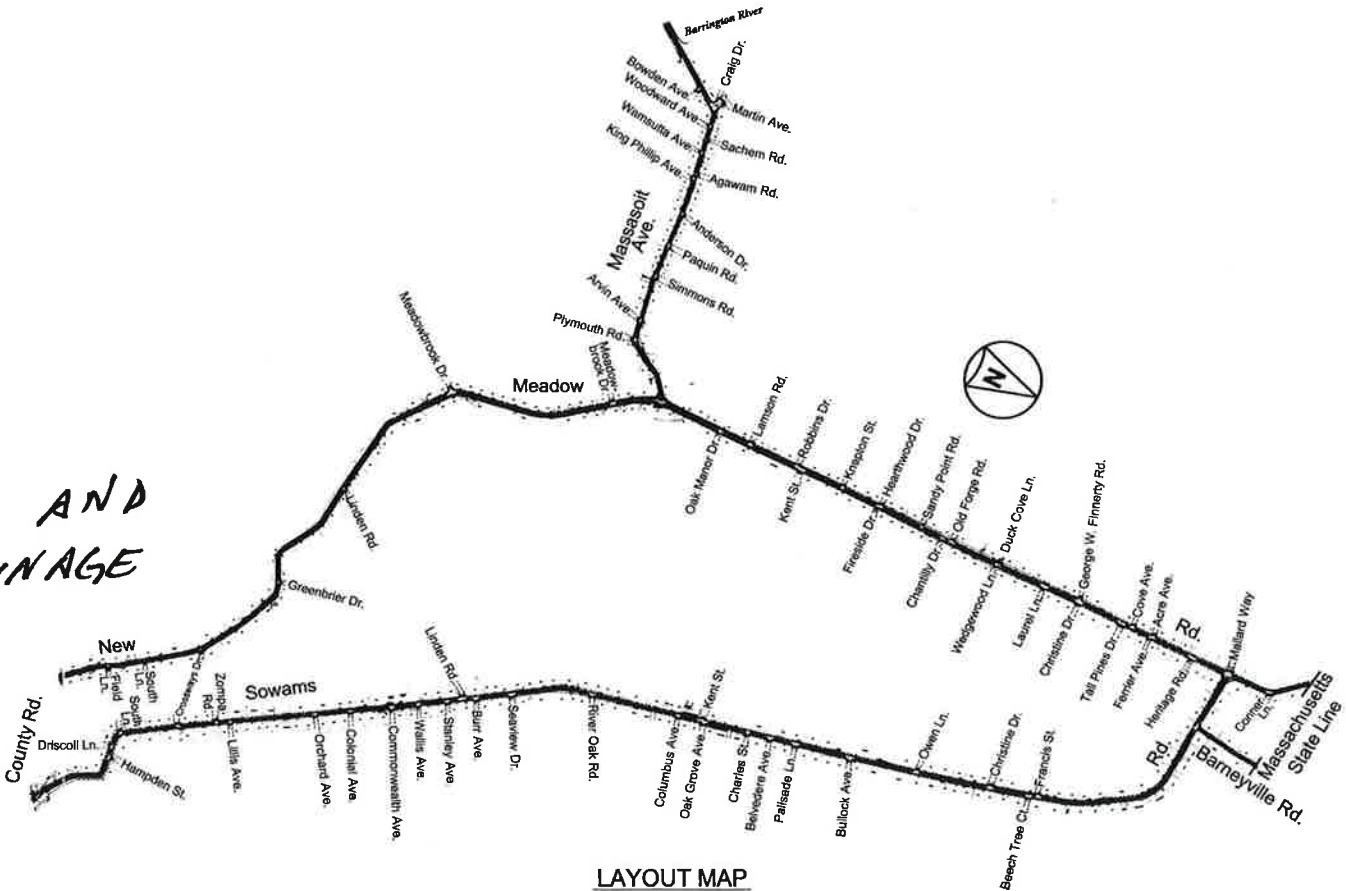
R.I. CONTRACT NO. 2004-CH-027 F.A. PROJECT NO. STP-RESF(061)

R.I. SPECIFICATIONS AND STANDARD DETAILS
SPECIFICATIONS TO GOVERN THIS PROJECT ARE THE R.I. STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, 2004 EDITION, THE STATE AND FEDERAL PROVISIONS IN THE CONTRACT DOCUMENTS, AND THE RHODE ISLAND STANDARD DETAILS, 1998 EDITION, WITH ALL REVISIONS.

LEGEND



CLEAN, FLUSH AND
VIDEO DRAINAGE
SYSTEM



LAYOUT MAP
SCALE: 1"=800'

SCALE OF DRAWINGS

Plans 1 inch = 40 feet

BASE OF LEVELS
NONE

BETA Group, Inc.
Engineers • Scientists • Planners

6 Blackstone Valley Place, Lincoln, RI 02865
phone: 401.333.2382 fax: 401.333.9225
Norwood, MA - Rocky Hill, CT
email: BETA@BETA-inc.com



Contract Number 2004-CH-027
Number of Sheet 1
Total Sheets 16

R.I. DEPARTMENT OF TRANSPORTATION	
APPROVED <i>Kay Farnham</i> DEPUTY CHIEF ENGINEER	10/1/04 DATE
APPROVED <i>Edmund P. [Signature]</i> CHIEF ENGINEER	10/1/04 DATE
APPROVED <i>James J. Gault</i> DIRECTOR	10-1-04 DATE
DEPARTMENT OF TRANSPORTATION FEDERAL HIGHWAY ADMINISTRATION	
APPROVED DIVISION ADMINISTRATOR	DATE

