

August 14, 2014

STATE OF RHODE ISLAND AND PROVIDENCE PLANTATION
DEPARTMENT OF ADMINISTRATION

DIVISION OF PURCHASES BID NO. 7548907

RHODE ISLAND DEPARTMENT OF TRANSPORTATION

RHODE ISLAND CONTRACT NO.2014-CT-015

FEDERAL-AID PROJECT NO. FAP Nos: STP-STAR(001)

RI*STARS - Aquidneck Island - America's Cup Avenue and Memorial Boulevard Improvements (HSIP Funds)

The work limits on America's Cup Avenue are from Bridge Street to Memorial Boulevard. The work limits on Memorial Boulevard are from America's Cup Avenue to Bellevue Avenue and from Old Beach Road to Wave Avenue.

CITY/TOWN OF Newport

COUNTY OF NEWPORT

NOTICE TO PROSPECTIVE BIDDERS

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

A. Clarification

1. Pre-Bid Conference

The sign in sheet from the Pre-Bid Conference held on August 12, 2014 at RIDOT is attached to this Addendum No. 1.

B. Contract Dates

1. Substantial Completion Date

Substantial Completion Date Updated To "05/04/2015".

C. Contract Documents

1. General Provisions - Contract Specific

a. Page CS-ii

Delete page CS-ii in its entirety and replace it with page CS-ii(R-1) attached to this Addendum No. 1. The index has been revised.

b. Pages CS-4 and CS-5

Delete pages CS-4 and CS-5 in their entirety and replace them with pages CS-4(R-1) and CS-5(R-1) attached to this Addendum No. 1. The "Action Required by Contractor" section has been revised.

- c. Page CS-10
Delete page CS-10 in its entirety and replace it with page CS-10(R-1) attached to this Addendum No. 1. Section 21 has been revised.
 - d. Pages CS-13 and CS-14
Delete pages CS-13 and CS-14 in their entirety and replace them with pages CS-13(R-1) and CS-14(R-1) attached to this Addendum No. 1. A disclaimer has been added to Section 28 and 32. Section 33 and 34 has been added.
 - e. Appendix B - Transportation Management Plan
Add pages 1 through 4 and Attachment A and B of the Transportation Management Plan attached to this Addendum No. 1 to Appendix B.
 - f. Appendix E - Informational Plans
Add Plan Sheets 1 through 8 of the Informational Plans attached to this Addendum No. 1 to Appendix E.
2. Specifications - Job Specific
- a. Pages JS-i and JS-ii
Delete pages JS-i and JS-ii in their entirety and replace them with pages JS-i(R-1) and JS-ii(R-1) attached to this Addendum No. 1. The index has been revised.
 - b. Page JS-4
Delete page JS-4 in its entirety and replace it with page JS-4(R-1) attached to this Addendum No. 1. Language has been added under Substantial Completion.
 - c. Page JS-12
Delete page JS-12 in its entirety and replace it with page JS-12(R-1) attached to this Addendum No. 1. This specification has been deleted.
 - d. Pages JS-44 through JS-46
Delete pages JS-44 through JS-46 in their entirety and replace them with pages JS-44(R-1) through JS-46(R-1) attached to this Addendum No. 1. The titles of the specifications have been revised.
 - e. Page JS-48
Delete page JS-48 in its entirety and replace it with page JS-48(R-1) attached to this Addendum No. 1. The title of the specification has been revised.
 - f. Page JS-55
Delete page JS-55 in its entirety and replace it with page JS-55(R-1) attached to this Addendum No. 1. This specification has been deleted.
 - g. Pages JS-68 through JS-71
Delete pages JS-68 through JS-71 in their entirety and replace them with pages JS-68(R-1) through JS-71(R-1) attached to this Addendum No. 1. The Materials section of both specifications has been revised.
 - h. Pages JS-74 through JS-76
Delete pages JS-74 through JS-76 in their entirety and replace them with pages JS-74(R-1) through JS-76(R-1) attached to this Addendum No. 1. These specifications have been deleted.
 - i. Page JS-85
Insert page JS-85 attached to this Addendum No. 1. A specification has been added.

D. Distribution of Quantities

1. Pages Index 1 through Index 3

Delete pages Index 1 through Index 3 in their entirety and replace them with pages Index 1(R-1) through Index 3(R-1) attached to this Addendum No. 1.

2. Pages 3 and 4

Delete pages 3 and 4 in their entirety and replace them with pages 3(R-1) through 4(R-1) attached to this Addendum No. 1.

3. Page 6

Delete page 6 in its entirety and replace it with pages 6(R-1) and 6a attached to this Addendum No. 1.

4. Page 8 and 9

Delete pages 8 and 9 in their entirety and replace them with pages 8(R-1) and 9(R-1) attached to this Addendum No. 1.

5. Pages 11 through 14

Delete pages 11 through 14 in their entirety and replace them with pages 11(R-1) through 14a attached to this Addendum No. 1.

6. Pages 25 and 26

Delete pages 25 and 26 in their entirety and replace them with pages Index 25(R-1) through 26a attached to this Addendum No. 1.

7. Page 28

Delete page 28 in its entirety and replace it with page 28(R-1) attached to this Addendum No. 1.

8. Page 32

Delete page 32 in its entirety and replace it with page 32(R-1) attached to this Addendum No. 1.

9. Pages 35 and 36

Delete pages 35 and 36 in their entirety and replace them with pages 35(R-1) and 36(R-1) attached to this Addendum No. 1.

10. Page 42

Delete page 42 in its entirety and replace it with pages 42(R-1) and 42a attached to this Addendum No. 1.

11. Pages 46 and 47

Delete pages 46 and 47 in their entirety and replace them with pages 46(R-1) through 47a attached to this Addendum No. 1.

12. Page 49

Delete page 49 in its entirety and replace it with page 49(R-1) attached to this Addendum No. 1.

13. Page 55

Delete page 55 in its entirety and replace it with page 55(R-1) attached to this Addendum No. 1.

14. Pages 65 through 70

Delete pages 65 through 70 in their entirety and replace them with pages 65(R-1) through 70a attached to this Addendum No. 1.

15. Pages 77 and 78

Delete pages 77 and 78 in their entirety and replace them with pages 77(R-1) through 78(R-1) attached to this Addendum No. 1.

16. Page 81

Delete page 81 in its entirety and replace it with page 81(R-1) attached to this Addendum No. 1.

17. Page 84

Delete page 84 in its entirety and replace it with pages 84(R-1) and 84a attached to this Addendum No. 1.

18. Page 88

Delete page 88 in its entirety and replace it with page 88(R-1) attached to this Addendum No. 1.

19. Page 89

Insert page 89 attached to this Addendum No. 1.

E. Drawings/Plans - Change/Addition

1. Sheet 1 - Cover Sheet

Delete Plan Sheet 1 in its entirety and replace it with Plan Sheet 1(R-1) attached to this Addendum No. 1. The cover sheet has been signed.

2. Sheet 5 - Job Specific Plan Symbols, Legend & Notes

Delete Plan Sheet 5 in its entirety and replace it with Plan Sheet 5(R-1) attached to this Addendum No. 1. A note has been revised.

3. Sheet 9 - Miscellaneous Details - 3

Delete Plan Sheet 9 in its entirety and replace it with Plan Sheet 9(R-1) attached to this Addendum No. 1. A detail has been added.

4. Sheet 34 - Signing and Striping Plan - 3

Delete Plan Sheet 34 in its entirety and replace it with Plan Sheet 34(R-1) attached to this Addendum No. 1. A note has been added.

5. Sheet 36 - Signing and Striping Plan - 5

Delete Plan Sheet 36 in its entirety and replace it with Plan Sheet 36(R-1) attached to this Addendum No. 1. A note has been added.

6. Sheets 40 through 45 - Traffic Signal Plan 1-6

Delete Plan Sheets 40 through 45 in their entirety and replace them with Plan Sheets 40(R-1) through 45(R-1) attached to this Addendum No. 1. Callouts have been revised.

F. Other Item Changes

1. L06.9902 - Acer Rubrum Armstrong 'Armstrong Red Maple', 3-3.5" Caliper
This item has been denoted as "Specialty."

2. L06.9903 - Platanus Acerifolia 'London Plane Bloodgood', 3-3.5" Caliper
This item has been denoted as "Specialty."



RI Department of Transportation
Chief Engineer

NON-MANDATORY PRE-BID CONFERENCE SIGN IN FORM

Bid Title:	2014-CT-015	RI*STARS
Bid Number:	7548907	
Date:	12-Aug-14	Purchasing Rep.:

	<u>Company Name</u>	<u>Name</u>	<u>Contact E Mail</u>	<u>Phone</u>
1	RIDOT	GARY GARZONE	ggarzone@garzone@dot.ri.gov	222-3260
2	RIDOT	Daniel Waugh	daniel.waugh@dot.ri.gov	X4331
3	VHB	Rachel Dooley	rdooley@vhb.com	272-8100
4	VHB	Peter J PAVAO	ppavao@vhb.com	272-8100
5	JH Lynch+Sons	Greg Monast	Sales@JHlynch.com	334-4300
6				
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16				

GENERAL PROVISIONS – CONTRACT SPECIFIC

INDEX (CONTINUED)

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22	Cleaning and Sweeping Pavement	CS-10
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Appendices:

Appendix A	Coastal Resources Management Council Permit
Appendix B	Transportation Management Plan
Appendix C	Soil Erosion and Sediment Control Plan
Appendix D	Pavement Cores
Appendix E	Informational Plans
Appendix F	Water Quality Certification

Status Log shall be updated bi-weekly and submitted to the Engineer five (5) working days prior to the Bi-weekly Schedule Update meeting. The Contractor shall come prepared to the bi-weekly meeting with a current RFI Status Log.

- C. **Field Survey:** The Contractor shall be responsible for any field survey activities for the Contract.
- D. **Warranty/Guaranty:** The Contractor shall unconditionally guaranty all system and subsystem modules, including all equipment, support structures, hardware, and software as specified in the Plans and these Technical Special Provisions to be free of defects for a period of one (1) year from the date of Final Acceptance (final completion) of the project by the Engineer. The warranty shall cover all materials, equipment, tools, transportation, supplies, parts, and incidentals required to facilitate response maintenance as necessary to repair and replace any defective modules, system(s) or subsystem(s) of the completed facility within the one-year time period. Acceptance of any system or subsystem during the construction contract, or any modifications to the system design proposed by the Contractor and approved by the Engineer shall not relieve the Contractor of the requirements of this guaranty. The warranty period shall be considered to start concurrent with the date of Final Acceptance.
- E. **Controller Programming:** The Contractor shall be responsible for programming the traffic signal controller's timing, phasing, and overall operation in accordance with the plans and as directed by the Engineer. The signal parameters shall be checked and verified by the Engineer with the Contractor prior to final acceptance, and any adjustments, fine tuning, or diagnostics required to make the signal operate as specified shall be considered incidental to the contract.
- F. **Documentation:** Where any modifications are made at existing traffic signal controller cabinets, Contractor shall supply two (2) copies of box prints showing all of the modifications that are made. Where new loop detectors are installed, the Contractor shall install a revised cabinet door sticker table showing the detector assignment information including the approach names, detector numbers, terminal numbers, detector relay slow number, relay number, relay channel number, and phase associated with each detector. The door sticker should be suitably durable for long term use in an outdoor environment. The cost for the required box prints and door stickers shall be considered incidental to the cost of the items of work being performed.

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

Action Required by Contractor:

All work shall be completed by May 4, 2015 with the exception of epoxy pavement markings, traffic loops, and cleaning and flushing drainage. All tree protection and composite filter sock shall be removed from the site and all temporary construction signs shall be removed or covered.

The Contractor shall not perform any work in the City of Newport prior to September 30, 2014 or between May 5, 2015 and May 17, 2015.

Epoxy pavement markings, traffic loops, and cleaning and flushing drainage will occur within thirty (30) calendar days of Substantial Completion as night work only.

Approval of the work sequence and time schedule is required before the start of any construction or other work associated with this contract. The proposed construction and time schedule must consider and address the safe vehicle passage through the project. The Contractor must submit, for the Department review and acceptance, a detailed construction schedule that complies with the Specification 108.03. The required Schedule Level for this project is **B**. Per the Specifications, the Contractor is required to generate the Schedules in Primavera P6, Version 7 or 8.

In addition to the requirements of the Standard Specifications for Road and Bridge Construction and the Special Requirements of other sections of these contract documents, the Contractor must adhere to the following requirements:

Traffic Fines in Work Zone Regulatory Signs, R.I. Std. 27.1.1, shall be utilized whenever construction activities are in progress and construction personnel is present. These signs shall be removed or covered at all other times.

The construction operations of this project must be coordinated with the local community public safety officials. See municipal contact list in Section 3 UTILITY AND MUNICIPAL NOTIFICATION AND COORDINATION of these Contract Specific General Provisions. It is the Contractor's responsibility to coordinate the construction operations of this project with the local public safety officials. In case of an emergency, the Contractor will be required to move equipment to allow the passage of emergency vehicles. The safety of the residents of the area must be considered at all times.

Contractor shall note project roadways signed as hurricane evacuation routes, which can be found on the Rhode Island Emergency Management Agency website, State of Rhode Island Hurricane Evacuation Routes maps at the following web address: http://www.riema.ri.gov/preparedness/evacuation/hurricane_evac.php. A minimum twenty-four (24) hours prior to a hurricane event that is forecasted to impact project locations and as directed by the Engineer, the Contractor shall remove his equipment and stored construction materials from any project roadways that serve as Hurricane Evacuation Routes.

The contractor shall work continuously to restore traffic signal operation to its intended purpose when replacing the traffic signal equipment. A police detail is required to direct traffic at the intersection at all times the traffic signal is inoperative. At no time shall the Contractor leave the site before restoring full traffic signal operations except with the approval of the Engineer.

20. CURBING INSTALLATION:

The cost of any curb cutting required to install new curb will be included in the unit price bid for the new curb.

Any brick, paver, or stamped concrete/asphalt sidewalk, tree pit, or roadway disturbed by construction activities required to remove existing curbing and install new curbing shall be repaired or replaced in kind by the contractor. The cost for this associated work item will be paid for under Job Specific Item Code 201.9903 "Remove and Reset Brick Sidewalk" or under Job Specific Item Code 302.9902 "Remove and Reset Stone Dust Tree Well" as applicable. Any brick, paver, or stamped concrete/asphalt sidewalks, tree pit, or roadways damaged, shall match the same materials that exist, including concrete base, unless otherwise indicated on the plans. The limit of associated work to be paid for under Job Specific Item Codes 201.9903 and 302.9902 shall be limited to the dimensions shown on the plans and miscellaneous details. Any brick, paver, or stamped concrete/asphalt sidewalk, crosswalk, or roadway disturbed by construction activity outside these limits shall be repaired or replaced by the Contractor at no additional cost to the State to the satisfaction of the Engineer.

21. SURVEY OF CURB:

All curb geometry and dimensions shown in the details are approximate. Curb radii was determined from digitized aerial plans. All curb radii is provided on the Location Plans.

22. CLEANING & SWEEPING OF PAVEMENT:

Cleaning and sweeping of pavement will include removal of all pavement debris prior to the placement of epoxy resin pavement markings. All cleaning and sweeping shall be done to the satisfaction of the engineer.

23. WORK LIMITS ON INTERSECTING ROADS:

Intersecting roads shall be repaired to the limits shown on the plans or as directed by the engineer. The pavement make-up shall be as shown on the plans and typical details.

24. SIDEWALK REMOVAL/INSTALLATION:

The Contractor shall take all necessary precautions to prevent damage to walls and fences abutting sidewalks and driveways designated for replacement if impacted by conduit installation or other construction activities. Where required, new sidewalks shall meet said walls and fences. Prior to sidewalk removal, a sawcut shall be provided in all sidewalks to be removed a distance, to be determined by the Engineer (6 inches minimum) from the face of adjacent buildings, retaining walls, and fences. The final 6 inches (minimum) of sidewalk will be removed with caution under Engineer's supervision. There will be no additional

damaged corrosion control components i.e. wires, or wire coating, shall require notification to the Corrosion Control Department (525-5610 or 474-5171) to initiate inspection/repair or replacement of the damaged components.

Backfilling exposed Corrosion Control wire components should begin immediately after the work in that location is complete. The region within 6" alongside and on top of the connector wires shall be backfilled with padding sand (free of cinders, ash, and rock). Test wire leads must be kept with enough slack to prevent stress on the points where the wires connect to the gas main. Trench spoil material shall be suitable for backfilling above the padding material as long as rocks with a diameter larger than 3" are removed. The 8" to 12" backfill layers shall be mechanically compacted to the industry standard of 95%.

28. ENVIRONMENTAL PERMITS:

Rhode Island Coastal Resource Management Council Permit. It shall be the Engineer's responsibility to post the Rhode Island Coastal Resource Management Council Permit in a noticeable location within the project area. It shall be the Contractor's responsibility to adhere to all restrictions as stated or implied by the permit and orders attached hereto and included as part of the contract documents. There will be no special payment for work done to comply with these permits and orders. Appropriate assents or permits from CRMC are contained in Appendix A (will be provided prior to Award).

Water Quality Certification. It shall be the Engineer's responsibility to post the Rhode Island Water Quality Certification in a noticeable location within the project area. The Water Quality Certification is contained in Appendix F (will be provided prior to Award).

29. TRANSPORTATION MANAGEMENT PLAN:

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

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

The Contractor's attention is called to the State of Rhode Island Procurement Regulations, with all amendments, for Subsection 103.02(a), which describes the requirements for the Contractor's designation of a TMP Implementation Manager for the Contract.

The Contractor's attention is called to the State of Rhode Island Procurement Regulations, with all amendments, for Subsection 103.21, which describes the requirements for training of all Contractor and Subcontractor personnel involved in work zone design, implementation,

operation, inspection, management, and enforcement .

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

30. SPECIALTY ITEMS

The following items are hereby designated “Specialty Items”:

Seeding

Landscape Plants

31. POLICE COMPENSATION

It will be the responsibility of the RIDOT Engineer to retain the services of the State and/or local police with cruisers for traffic control and protection for this project. The Contractor will not be required to bid on, or compensate for, the services of the State and local police.

32. SOIL EROSION AND SEDIMENT CONTROL PLAN

Included as Appendix C to these Contract Specific General Provisions is the Soil Erosion and Sediment Control Plan for this project (will be provided prior to Award). It shall be the Contractor’s responsibility to adhere to all the restrictions as stated or implied by the plan and orders attached hereto and included as part of these Contract Documents. There will be no special or separate payment for work done to comply with these requirements.

33. TEMPERATURE RESTRICTED ITEMS

Installation of Item Code 401.9901 – Class 12.5 Hot Mix Asphalt with Pay Factors and Item Code 603.9901 – Type III Controlled Low Strength Material will be allowed in colder months. All temperature restrictions provided in the specifications will be followed. Contractor shall plan to use warm mix asphalt for paving in colder temperatures.

34. WINTER SHUTDOWN

Depending on the Contractor’s means and methods and sequencing of work, work involved with curbs, sidewalk and pavement installation, as well as other items, may be required during winter months. The winter shutdown, as described in Section 101.80 of the Rhode Island Standard Specifications for Road and Bridge Construction has been modified for this contract as follows:

There shall be no winter shutdown for this project.



**LEVEL 3
TRANSPORTATION
MANAGEMENT
PLAN**

Project Name: RISTARS Aquidneck Island-Contract 2

RI Design Contract No(s): 2010-ET-008

RI Construction Contract No(s): 2014-CT-015

Submission: ADV

Date: 7/30/2014

PROJECT INFORMATION

Brief Project Description: Rhode Island Contract No. 2014-CT-015, Federal Aid Project No. STP-STAR(001), RISTARS – ROADWAY SAFETY IMPROVEMENTS TO AMERICA'S CUP AVENUE AND MEMORIAL BOULEVARD, consists of installing ADA-compliant audible pedestrian pushbuttons, pedestrian signal heads, removal of existing concrete curbing, installation of granite curbing, installation of ADA-compliant ramps, sidewalk replacement behind new curb locations, modifying existing landscaped and concrete median islands, mill and overlay bituminous surface, installing pavement markings, removal and installation of trees, installation of warm season grass mix adjacent to Easton's Beach, and other miscellaneous tasks and incidentals as necessary to complete the work of this Contract to the satisfaction of the Engineer.

General Work Limits: America's Cup Avenue and Memorial Boulevard in the City of Newport

WORK ZONE LOCATIONS			
ROADWAY NAME or INTERSECTION	FROM	TO	APPROX. LENGTH
America's Cup Avenue	Bridge Street	Memorial Boulevard	3,200 ft
Memorial Boulevard	America's Cup Avenue	Bellevue Avenue	1,700 ft
Memorial Boulevard	Old Beach Road	Wave Avenue	3,100 ft

General Project Schedule*: Work is expected to begin in Fall 2014 and is expected to end Spring 2015.

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

TRAFFIC-RELATED WORK RESTRICTIONS

General Restrictions: The Contractor shall refer to Attachment "A" for required restrictions September 30, 2014 to May 4, 2015.
The Contractor shall refer to Attachment "B" for required restrictions May 18, 2015 to June 4, 2015.

Holiday Restrictions: NOTE: IN CASE OF DISCREPANCY BETWEEN THESE HOLIDAY RESTRICTIONS AND THE GENERAL RESTRICTIONS (ATTACHMENTS "A" and "B"), THESE HOLIDAY RESTRICTIONS SHALL GOVERN.

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

EASTER SUNDAY

No lane and/or shoulder closures allowed on Saturday.

No lane and/or shoulder closures allowed on Sunday until 21:00 (after 21:00, General Restrictions shall apply).

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

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

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

VETERAN'S DAY

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

No lane and/or shoulder closures allowed on Veteran's Day until 21:00 (after 21:00, General Restrictions shall apply).

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

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

No lane and/or shoulder closures allowed on Monday until 21:00 (after 21:00, General Restrictions shall apply).

MEMORIAL DAY & LABOR DAY

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

THANKSGIVING DAY

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

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

TEMPORARY TRAFFIC CONTROL PLANS

These RIDOT- and/or Designer-Developed TTC Plans will be used during the work on this project

RIDOT TYPICAL TTC PLANS	Included in:	
	TMP	Plan Set
<input type="checkbox"/> Mobile Operation	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Work Beyond the Shoulder	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Shoulder Closure - Two Lane Road	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Shoulder Closure - Limited Access	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> 1-Side Lane Shift - Two Lane Road	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> 2-Side Lane Shift - Two Lane Road	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Lane Shift - Limited Access	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Lane Closure - Two Lane Road	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Lane Closure - Four Lane Road	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Lane Closure - Limited Access	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Double Lane Closure - Limited Access	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

DESIGNER-DEVELOPED TTC PLANS	Included in:	
	TMP	Plan Set
Typical One-Lane Closure - TC Plan 1	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Typical Shoulder Work w/ Minor Encroachment - TC Plan 1	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Typical Right-Hand Lane Closure on	<input type="checkbox"/>	<input type="checkbox"/>
the Far Side of an Intersection - TC Plan 2	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Typical Lane Closure on a Side Street - TC Plan 2	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Typical Work Beyond the Shoulder - TC Plan 2	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Typical Sidewalk Detour - TC Plan 2	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>

PUBLIC INFORMATION PLAN

These strategies will be used to provide information concerning the project to road users and the community

SELECTED STRATEGIES

- RIDOT travel advisories news releases
- RIDOT travel advisories web site
- RIDOT 511 traveler information system

RESPONSIBILITIES / REQUIREMENTS / SPECIAL CONSIDERATIONS

- RIDOT TMP Imp. Mngr. to send RIDOT notification form to Communications min. 48 hrs. in advance of restrictions.
- RIDOT TMP Imp. Mngr. to send RIDOT notification form to Communications min. 48 hrs. in advance of restrictions.
- RIDOT TMP Imp. Mngr. to send RIDOT notification form to RIDOT TMC min. 48 hrs. in advance of restrictions.

TRANSPORTATION OPERATIONS PLAN

These strategies will be used to provide improved transportation operations/safety within project work zones

SELECTED STRATEGIES

RESPONSIBILITIES / REQUIREMENTS / SPECIAL CONSIDERATIONS

PERFORMANCE MONITORING, CHANGES TO TMP, & CONTINGENCIES

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

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

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

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

Other Requirements:

TMP APPROVALS

All approvals must be obtained prior to start of work

DEPUTY CHIEF ENGINEER		
Signature: <i>Frank Corrao III</i>	Frank Corrao III, P.E.	
Date: <i>8/8/14</i>		

STATE TRAFFIC ENGINEER		
Signature: <i>Robert Rocchio</i>	Robert Rocchio, P.E.	
Date: <i>7/31/14</i>		

CHIEF ENGINEER		
Signature: <i>Kazem Farhoumand</i>	Kazem Farhoumand, P.E.	
Date: <i>8/12/14</i>		

Revision #	Initials	Date

Revision #	Initials	Date

Revision #	Initials	Date

TMP IMPLEMENTATION MANAGERS

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

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

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

**Attachment "A" to Level 3 TMP - September 30, 2014 to May 4, 2015
 RISTARS-Roadway Safety Improvements to Americas Cup Avenue and Memorial Boulevard
 TRAFFIC-RELATED WORK RESTRICTIONS / General Restrictions:**

Location	Time of Day		Day of Week							MINIMUM NUMBER OF LANES & SHOULDERS TO REMAIN OPEN TO TRAFFIC ^{1,2,3,4}
	From	To	SUN	MON	TUES	WED	THURS	FRI	SAT	
	America's Cup Ave	0:00	19:00	ALL	1 L	1 L	1 L	1 L	1 L	
Memorial Blvd	19:00	24:00	1 L	1 L	1 L	1 L	1 L	1 L	ALL	ALL

LEGEND

ALL

All travel lanes and shoulders shall remain open to traffic

1 L

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

NOTES

- 1 The set-up and break-down of temporary traffic control devices within a traveled way or shoulder shall be construed as a closure of that traveled way or shoulder.
- 2 The provisions noted herein shall not free the Contractor from his responsibility to conduct all work in such a manner that assures the least possible obstruction to traffic.
- 3 A minimum of one sidewalk (with a minimum 5-foot-wide clear path for pedestrians) on one side of the road at each work zone shall remain open at all times.
- 4 Access to and egress from all side streets, driveways, buildings, and other pedestrian pathways intersecting the Project work zones shall be maintained at all times unless otherwise noted or shown on Plans.

Attachment "B" to Level 3 TMP - May 18, 2015 to June 4, 2015
RISTARS-Roadway Safety Improvements to Americas Cup Avenue and Memorial Boulevard
TRAFFIC-RELATED WORK RESTRICTIONS / General Restrictions:

Location	Time of Day		Day of Week							MINIMUM NUMBER OF LANES & SHOULDERS TO REMAIN OPEN TO TRAFFIC ^{1,2,3,4}
	From	To	SUN	MON	TUES	WED	THURS	FRI	SAT	
	America's Cup Ave Memorial Blvd	0:00	6:00	ALL	1 L	1 L	1 L	1 L	1 L	
	6:00	19:00	ALL	ALL	ALL	ALL	ALL	ALL	ALL	ALL
	19:00	24:00	1 L	1 L	1 L	1 L	1 L	1 L	1 L	ALL

LEGEND

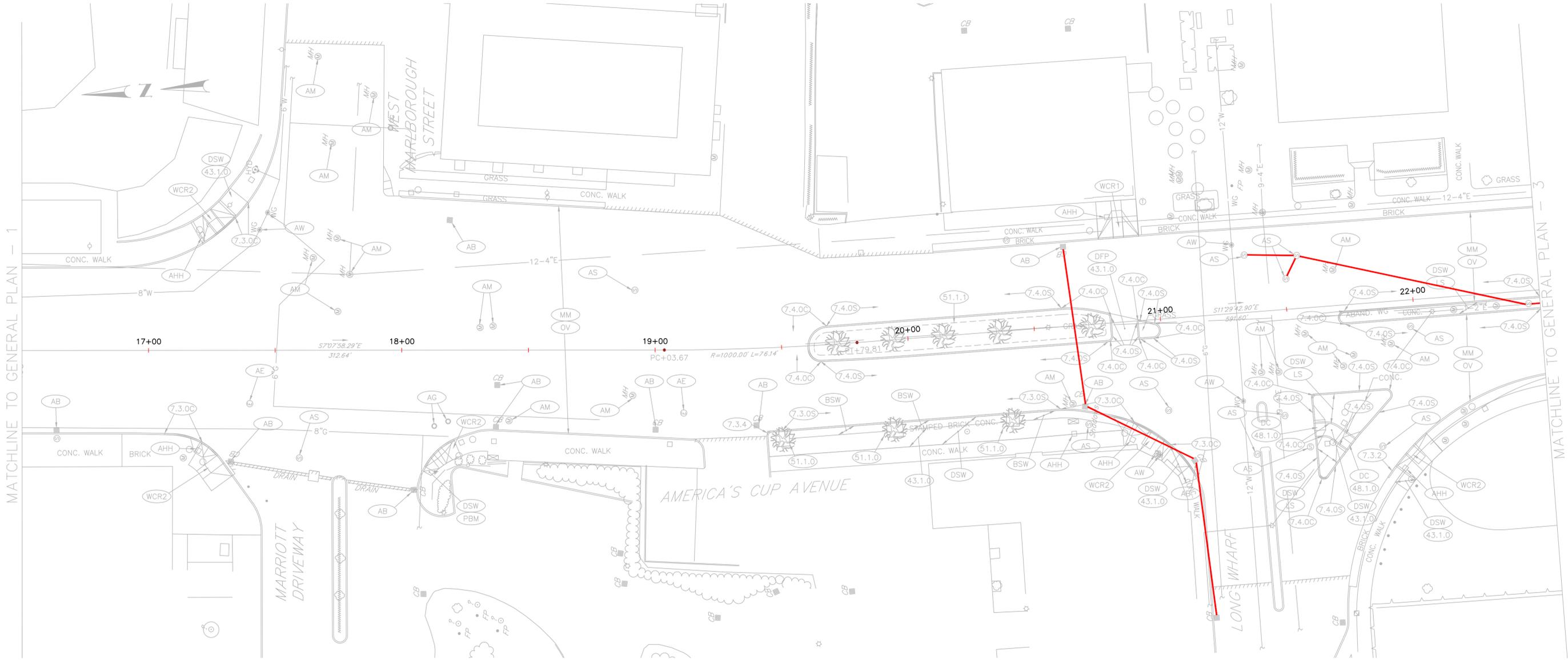
ALL All travel lanes and shoulders shall remain open to traffic

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

NOTES

- 1 The set-up and break-down of temporary traffic control devices within a traveled way or shoulder shall be construed as a closure of that traveled way or shoulder.
- 2 The provisions noted herein shall not free the Contractor from his responsibility to conduct all work in such a manner that assures the least possible obstruction to traffic.
- 3 A minimum of one sidewalk (with a minimum 5-foot-wide clear path for pedestrians) on one side of the road at each work zone shall remain open at all times.
- 4 Access to and egress from all side streets, driveways, buildings, and other pedestrian pathways intersecting the Project work zones shall be maintained at all times unless otherwise noted or shown on Plans.

FED. ROAD DIV. NO.	STATE	FEDERAL AID PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
	RI	STP-STAR(001)		11	47



GENERAL NOTES:

1. THE CONTRACTOR SHALL INSTALL CATCH BASIN INLET PROTECTION IN DRAINAGE STRUCTURE INLETS IN THE ROADWAY WITHIN THE PROJECT LIMITS. THIS WORK WILL BE PAID FOR UNDER ITEM CODE 206.9901.
2. THE CONTRACTOR SHALL INSTALL COMPOST FILTER SOCK IN ALL ROADWAY MEDIANS IN ORDER TO PROTECT ALL DRAINAGE STRUCTURE INLETS OUTSIDE OF THE ROADWAY. THIS WORK WILL BE PAID FOR UNDER ITEM CODE 206.9902.
3. ALL INLETS AND CATCH BASINS AND THEIR PIPE LATERALS WITHIN THE PAVING LIMITS SHALL BE CLEANED AND FLUSHED. THIS WORK WILL BE PAID FOR UNDER ITEM CODES 708.9040 AND 708.9041.
4. THERE SHALL BE NO PARKING OR STORING OF CONSTRUCTION EQUIPMENT UNDER THE DRIPLINE OF ANY TREES.
5. THE CONTRACTOR SHALL, IN AREAS WHERE NEW CURBING IS INSTALLED, REFER TO MISCELLANEOUS DETAILS - 3 FOR DETAILS ON REPLACEMENT OF SIDEWALK TREATMENT DISTURBED BY CURB REMOVAL AND INSTALL INCLUDING BRICK, CONCRETE, GRASS, AND STONE DUST TREE WELLS.

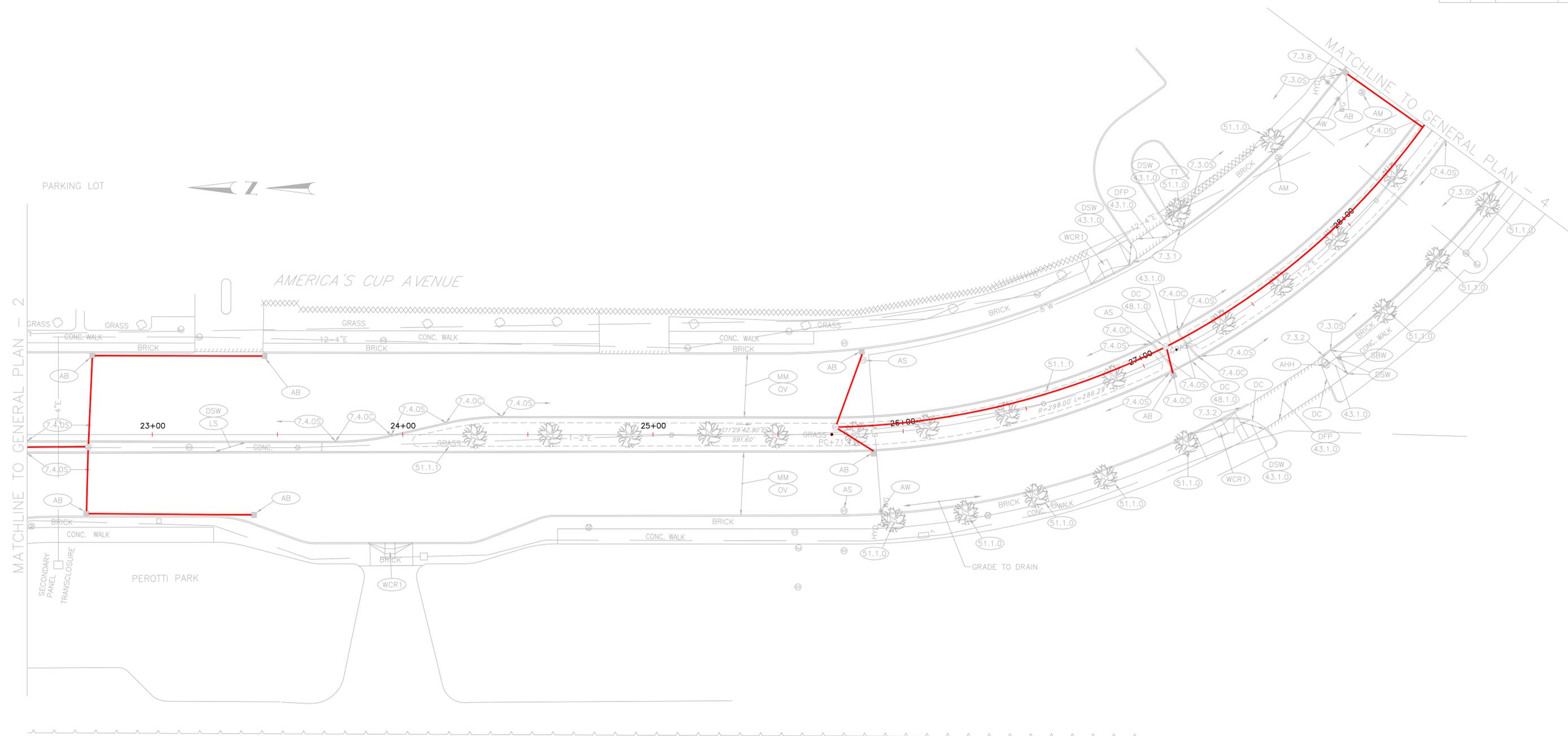
NOTE:
 1. THESE PLANS REFLECT EXISTING DRAINAGE LINES OF KNOWN LOCATION FROM RECORD PLANS PROVIDED BY THE CITY OF NEWPORT TO BE CLEANED, FLUSHED AND VIDEO INSPECTED. THE CONTRACTOR SHALL BE AWARE THAT FURTHER STORMWATER DRAINAGE SYSTEM PIPES EXIST IN THE FIELD AND IT IS THEIR RESPONSIBILITY TO COORDINATE WITH THE ENGINEER TO IDENTIFY THESE LOCATIONS AND ENSURE THAT THEY ARE CLEANED, FLUSHED, AND VIDEO INSPECTED. THIS WORK SHALL BE PAID FOR UNDER THE APPROPRIATE WORK ITEMS. ALL WORK SHALL BE COMPLETED TO THE SATISFACTION OF THE ENGINEER.

ADDENDUM NO. 1



REVISIONS			RHODE ISLAND DEPARTMENT OF TRANSPORTATION	
NO.	DATE	BY	RI STARS ROADWAY SAFETY IMPROVEMENTS TO AMERICA'S CUP AVENUE AND MEMORIAL BOULEVARD (HSIP FUNDS) NEWPORT, RHODE ISLAND	
			GENERAL PLAN - 2 AMERICA'S CUP AVE	
CHECKED BY _____			DATE _____	SCALE _____

FED. ROAD DIV. NO.	STATE	FEDERAL AID PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
	RI	STP-STAR(001)		12	47



GENERAL NOTES:

1. THE CONTRACTOR SHALL INSTALL CATCH BASIN INLET PROTECTION IN DRAINAGE STRUCTURE INLETS IN THE ROADWAY WITHIN THE PROJECT LIMITS. THIS WORK WILL BE PAID FOR UNDER ITEM CODE 206.9901.
2. THE CONTRACTOR SHALL INSTALL COMPOST FILTER SOCK IN ALL ROADWAY MEDIANS IN ORDER TO PROTECT ALL DRAINAGE STRUCTURE INLETS OUTSIDE OF THE ROADWAY. THIS WORK WILL BE PAID FOR UNDER ITEM CODE 206.9902.
3. ALL INLETS AND CATCH BASINS AND THEIR PIPE LATERALS WITHIN THE PAVING LIMITS SHALL BE CLEANED AND FLUSHED. THIS WORK WILL BE PAID FOR UNDER ITEM CODES 708.9040 AND 708.9041.
4. ANY TREE TRIMMING WORK SHALL BE PROVIDED THROUGH THE STATEWIDE TREE TRIMMING CONTRACT. PLEASE COORDINATE WITH THE RESIDENT ENGINEER DURING CONSTRUCTION.
5. THERE SHALL BE NO PARKING OR STORING OF CONSTRUCTION EQUIPMENT UNDER THE DRIPLINE OF ANY TREES.
6. THE CONTRACTOR SHALL, IN AREAS WHERE NEW CURBING IS INSTALLED, REFER TO MISCELLANEOUS DETAILS - 3 FOR DETAILS ON REPLACEMENT OF SIDEWALK TREATMENT DISTURBED BY CURB REMOVAL AND INSTALL INCLUDING BRICK, CONCRETE, GRASS, AND STONE DUST TREE WELLS.

NOTE:

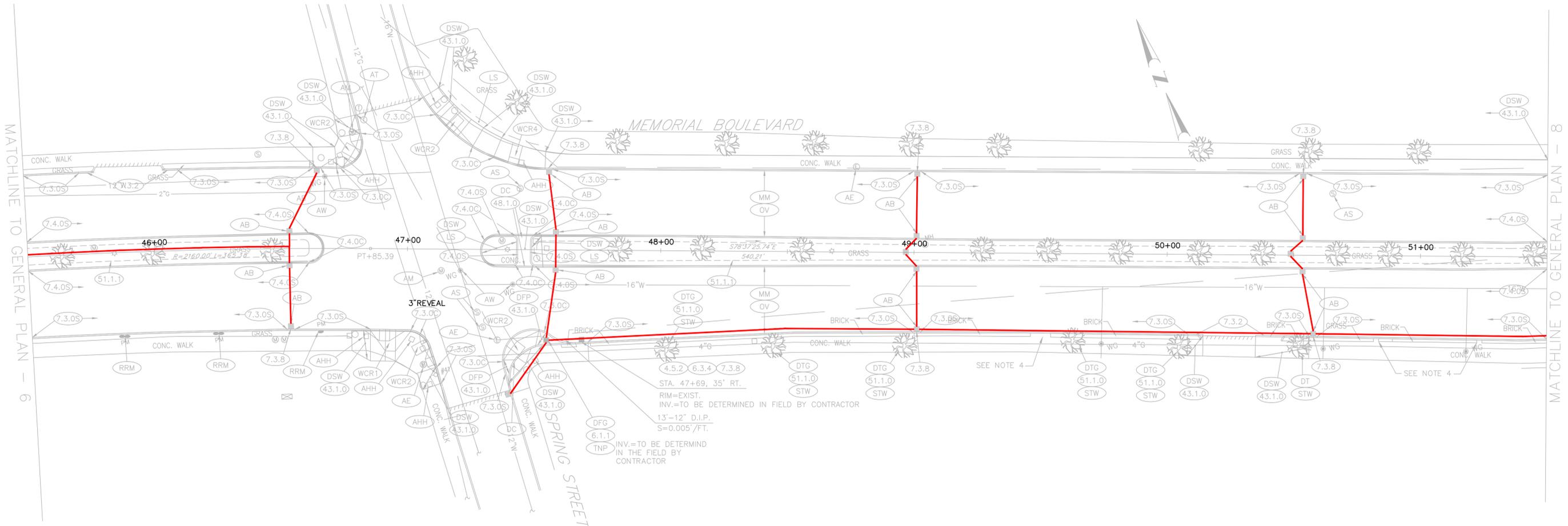
1. THESE PLANS REFLECT EXISTING DRAINAGE LINES OF KNOWN LOCATION FROM RECORD PLANS PROVIDED BY THE CITY OF NEWPORT TO BE CLEANED, FLUSHED AND VIDEO INSPECTED. THE CONTRACTOR SHALL BE AWARE THAT FURTHER STORMWATER DRAINAGE SYSTEM PIPES EXIST IN THE FIELD AND IT IS THEIR RESPONSIBILITY TO COORDINATE WITH THE ENGINEER TO IDENTIFY THESE LOCATIONS AND ENSURE THAT THEY ARE CLEANED, FLUSHED, AND VIDEO INSPECTED. THIS WORK SHALL BE PAID FOR UNDER THE APPROPRIATE WORK ITEMS. ALL WORK SHALL BE COMPLETED TO THE SATISFACTION OF THE ENGINEER.

ADDENDUM NO. 1



REVISIONS			RHODE ISLAND DEPARTMENT OF TRANSPORTATION	
NO.	DATE	BY	RI STARS ROADWAY SAFETY IMPROVEMENTS TO AMERICA'S CUP AVENUE AND MEMORIAL BOULEVARD (HSIP FUNDS) NEWPORT, RHODE ISLAND	
			GENERAL PLAN - 3 AMERICA'S CUP AVE	
CHECKED BY _____			DATE _____	SCALE _____

FED. ROAD DIV. NO.	STATE	FEDERAL AID PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
	RI	STP-STAR(001)		16	47



GENERAL NOTES:

1. THE CONTRACTOR SHALL INSTALL CATCH BASIN INLET PROTECTION IN DRAINAGE STRUCTURE INLETS IN THE ROADWAY WITHIN THE PROJECT LIMITS. THIS WORK WILL BE PAID FOR UNDER ITEM CODE 206.9901.
2. THE CONTRACTOR SHALL INSTALL COMPOST FILTER SOCK IN ALL ROADWAY MEDIANS IN ORDER TO PROTECT ALL DRAINAGE STRUCTURE INLETS OUTSIDE OF THE ROADWAY. THIS WORK WILL BE PAID FOR UNDER ITEM CODE 206.9902.
3. ALL INLETS AND CATCH BASINS AND THEIR PIPE LATERALS WITHIN THE PAVING LIMITS SHALL BE CLEANED AND FLUSHED. THIS WORK WILL BE PAID FOR UNDER ITEM CODES 708.9040 AND 708.9041.
4. THERE SHALL BE NO PARKING OR STORING OF CONSTRUCTION EQUIPMENT UNDER THE DRIPLINE OF ANY TREES.
5. CONTRACTOR SHALL CONTINUE BRICK STRIP. THIS WORK WILL BE PAID FOR UNDER ITEM CODE 201.0403 AND 905.9901.
6. THE CONTRACTOR SHALL, IN AREAS WHERE NEW CURBING IS INSTALLED, REFER TO MISCELLANEOUS DETAILS - 3 FOR DETAILS ON REPLACEMENT OF SIDEWALK TREATMENT DISTURBED BY CURB REMOVAL AND INSTALL INCLUDING BRICK, CONCRETE, GRASS, AND STONE DUST TREE WELLS.

NOTE:

1. THESE PLANS REFLECT EXISTING DRAINAGE LINES OF KNOWN LOCATION FROM RECORD PLANS PROVIDED BY THE CITY OF NEWPORT TO BE CLEANED, FLUSHED AND VIDEO INSPECTED. THE CONTRACTOR SHALL BE AWARE THAT FURTHER STORMWATER DRAINAGE SYSTEM PIPES EXIST IN THE FIELD AND IT IS THEIR RESPONSIBILITY TO COORDINATE WITH THE ENGINEER TO IDENTIFY THESE LOCATIONS AND ENSURE THAT THEY ARE CLEANED, FLUSHED, AND VIDEO INSPECTED. THIS WORK SHALL BE PAID FOR UNDER THE APPROPRIATE WORK ITEMS. ALL WORK SHALL BE COMPLETED TO THE SATISFACTION OF THE ENGINEER.

ADDENDUM NO. 1



REVISIONS			RHODE ISLAND	
NO.	DATE	BY	DEPARTMENT OF TRANSPORTATION	
			RI STARS	
			ROADWAY SAFETY IMPROVEMENTS TO	
			AMERICA'S CUP AVENUE AND	
			MEMORIAL BOULEVARD (HSIP FUNDS)	
			NEWPORT, RHODE ISLAND	
			GENERAL PLAN - 7	
			MEMORIAL BLVD	
			CHECKED BY	DATE
			SCALE	

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JOB SPECIFIC

CODE 108.1000

PROSECUTION AND PROGRESS

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

Substantial Completion: May 4, 2015

All Contract work, with the exception of epoxy pavement markings, traffic loops, and cleaning and flushing drainage, shall be completed as defined by Section 101.71.

Additionally, the work excluded from Substantial Completion (epoxy pavement markings, traffic loops, and cleaning and flushing drainage) shall be completed within thirty (30) calendar days of Substantial Completion or Liquidated Damages will be assessed.

Liquidated Damages: \$1,500 per calendar day.

DELETED

JOB SPECIFIC

CODE 701.9901

**CLOSED CIRCUIT TELEVISION (CCTV) STORMWATER DRAINAGE SYSTEM
INSPECTION**

DESCRIPTION: The Contractor shall furnish all labor, materials, equipment and incidentals required to perform a CCTV inspection of the existing storm water drainage system, in preparation of reconstructing the drainage system using cured in place pipe (CIPP).

QUALIFICATIONS: The Contractor shall be licensed to perform CCTV Inspection with a minimum of five (5) active years of experience in performing CCTV inspections. The Contractor shall provide proof of qualifications to the Engineer a minimum of 30 days prior to the start of work.

PREPARATIONS: The CCTV inspection shall be conducted after Pipeline Cleaning has been performed.

CCTV INSPECTION: The Contractor shall CCTV all pipes to be reconstructed using CIPP in accordance with the Plans and/or as directed by 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.

CCTV CAMERA: 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 line. 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, will not be 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, set up equipment 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.

CCTV INSPECTION LOGS: 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, presence of scale and corrosion, deposits, and other discernible features.

DVD VIDEO RECORDINGS: 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.

SUBMITTALS: 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 (2) copies of the CCTV inspection logs and DVD video recordings.

METHOD OF MEASUREMENT: “CLOSED CIRCUIT TELEVISION (CCTV) STORMWATER DRAINAGE SYSTEM INSPECTION” will be measured per “LINEAR FOOT” of CCTV inspection actually performed from structure to structure in accordance with the Plans and/or as directed by the Engineer.

BASIS OF PAYMENT: “CLOSED CIRCUIT TELEVISION (CCTV) STORMWATER DRAINAGE SYSTEM INSPECTION” will be paid for at the contract unit bid price per “LINEAR FOOT” as listed in the proposal. The price so-stated constitutes full and complete compensation for all labor, materials, and equipment, and for all other incidentals required to provide these services, complete and accepted by the Engineer.

JOB SPECIFIC

CODE 905.9901

INSTALL SALVAGED BRICK SIDEWALK

DESCRIPTION: This work shall consist of construction of brick sidewalk to the lines and grades indicated on the Plans or as directed by the Engineer. All work shall be in accordance with The Rhode Island Standard Specifications for Road and Bridge Construction (Amended 2013) with all revisions.

MATERIALS: Bricks shall be reused from Code 201.9902 "Remove and Stockpile Brick."

Gravel borrow subbase course shall be as specified within Section 302 of The Rhode Island Standard Specifications for Road and Bridge Construction (Amended 2013) with all revisions, and six (6) inches in thickness.

Portland Cement Concrete shall be Class A as specified within Section 601 of The Rhode Island Standard Specifications for Road and Bridge Construction (Amended 2013) with all revisions, and either four (4) or eight (8) inches in thickness depending on location and use.

Mortar used shall be in accordance with all RIDOT specifications including The Rhode Island Standard Specifications for Road and Bridge Construction (Amended 2013) with all revisions or mortar included on the RIDOT Approved Products List.

All sidewalks and tangent (mid-block) wheelchair ramps shall be four (4) inches in thickness. All other wheelchair ramps and driveways shall be eight (8) inches in thickness. All Bricks shall be set on one (1) inch of stone dust. All stone dust for tree pits shall match existing.

The stone dust shall consist of a composite aggregate and a fine aggregate. The composite aggregate shall be free of compressible or organic soils, soft or elongated rock fragments or gravel, and vegetative matter. Fine aggregate may consist of natural sand or particles produced by crushing rock or gravel, and shall be free of organic soils or other deleterious matter. The composite coarse and fine aggregate mix shall conform to the following gradation requirements:

<u>Square Mesh Sieve Size</u>	<u>Percentage by Weight Passing Indicated Sieve Size</u>
1½"	100
1"	70 - 100
¾"	50 - 85
⅜"	40 - 75
No. 4	30 - 55
No. 40	0 - 25
No. 200	0 - 8

CONSTRUCTION METHODS: It shall be the responsibility of the Contractor to carefully remove the designated concrete so as not to damage any adjacent concrete not intended for removal. If any damage occurs to such slabs, it shall be the responsibility of the Contractor to replace those slabs with new concrete at his expense. The sidewalk slabs that are to be replaced will be marked by the Engineer and all joints between new work and existing slabs shall be cut straight with the use of a saw.

time will the forms be removed within 24 hours after placing of concrete, or not until the concrete has sufficiently hardened to prevent injury, whichever is greater. The Contractor shall fill voids left by the removal of the forms that were required to construct the new concrete sidewalks and wheelchair ramps with loam and seed.

For concrete and/or brick/Belgian block constructed within the vehicular travel way or driveway, a minimum of 24 hours curing time (from the last constructed) shall be required before vehicular use. The Contractor shall provide all signs, cones, and barricades necessary to protect the concrete and/or brick/Belgian block. The Contractor shall notify Property owners or residents at least 24 hours prior to disturbing driveways.

Any damage caused by excavation of a sidewalk shall be the sole responsibility of the Contractor. Care shall be taken when excavating any sidewalk or objects as to not disturb existing buildings, foundations, utilities, or any other existing structure etc.

After the concrete base has been poured and cured properly, the paver shall then be reset upon the concrete base. All bricks are to be set on a one (1) inch bed of stone dust in a tight fitting, running bond pattern, and any segments of brick shall be cut in an approved manner. No gaps wider than 1/4" shall be permitted between bricks, or where they meet curb, foundations, walls, other sidewalks, or utility structures. Where there is no such hard surface to contain the brickwork, install 1" x 4" pressure treated timber as backing. Stone dust shall be swept into all brick joints to completely fill all voids. All brickwork shall be compacted with vibratory equipment on top of a stone dust protective layer that shall be removed after completion of compaction.

METHOD OF MEASUREMENT: "INSTALL SALVAGED BRICK SIDEWALK" shall be measured by the number of "SQUARE YARD" actually installed in accordance with the Plans and/or as directed by the Engineer.

BASIS OF PAYMENT: "INSTALL SALVAGED BRICK SIDEWALK" shall be paid for at the respective contract unit prices per "SQUARE YARD" as listed in the Proposal. The prices so-stated constitute full and complete compensation for all labor, materials, and equipment associated with (but not limited to) hauling, loading/unloading, mechanical compaction, setting forms, and furnishing, placing Portland Cement Concrete to the required thickness, then removing forms, backfilling, furnish and installation of stone dust or mortar, furnish of bricks as directed by the Engineer, clean-up, the legal disposal of all surplus excavated and/or unsuitable material and all other incidentals required to finish the work, complete and accepted by the Engineer. Any castings damaged due to carelessness shall be replaced at the Contractors expense.

Excavation and gravel borrow will be paid for separately under the appropriate work items.

DELETED

JOB SPECIFIC

CODE T13.9901, T13.9902

**ACCESSIBLE PEDESTRIAN SIGNAL (APS) –
PEDESTRIAN DETECTOR/PUSHBUTTON WITH SIGN**

ACCESSIBLE PEDESTRIAN SIGNAL (APS) CONFIGURATION UNIT

DESCRIPTION: This work shall consist of furnishing and installing the components of an Accessible Pedestrian Signal (APS) – pedestrian detector/pushbutton with sign. Additionally the Contractor shall supply a matched configuration unit for the APS pushbuttons.

The APS units shall meet or exceed Americans with Disabilities Act (ADA) guidelines and the Manual on Uniform Traffic Control Devices (MUTCD) 2009 Edition including all revisions and requirements. All pedestrian pushbutton units supplied for this project shall be identical models of current production. Untried or prototype units shall not be acceptable.

MATERIALS: The Accessible Pedestrian Signal (APS) pushbuttons shall provide information in non-visual formats (such as audible tones, speech messages, and/or vibrating surfaces). The APS pushbuttons shall be compliant with the 2009 MUTCD. The APS pushbuttons shall be manufactured by Polara, Model Navigator 4-wire EZ Communicator system, or approved equal. At a minimum the APS pushbuttons shall be provided with the following features:

- Pushbutton locator tone.
- A visible and audible indicator that the button press has occurred.
- A vibro-tactile arrow.
- A percussive tone for the “WALKING PERSON” indication.

The APS pushbuttons shall provide visually disabled pedestrians with a locator tone that will allow them to find the pushbutton to activate the walk signal. Once the pushbutton call has been placed, the signal will provide both an audible and tactile response during the related “WALK” portion of the cycle. A sunlight visible LED latches “ON” to confirm the button has been pushed. The audible response shall be a percussive tone.

Housing and Pushbutton Unit – Shall meet the following minimum requirements:

- Constructed of cast aluminum with a powder coated finish. The following color scheme shall be adhered to:
 - All proposed units shown on Traffic Signal Plans 1- 6, and General Plan 9 shall be gloss black.
- Highly vandal resistant and pressure activated with essentially no moving parts.
- Pushbutton must be able to withstand an impact from a baseball bat or hammer.
- Operating temperature range -34 degrees Celsius to 65 degrees Celsius.
- Operating voltage range 12 to 36 VDC.
- Button cap must be made of solid 316 stainless steel.
- Pushbutton must activate with 5 lbs of force or less.
- Unit must have an LED display to give indication that of pushbutton being pushed.

- Pushbutton must fully operate immediately after being completely immersed in water for 5 minutes (electrical terminals isolated from water).
- Pushbutton must not allow ice to form such that it would impede function of pushbutton or pushbutton cap.
- All switch electronics must be sealed within the housing.
- All sounds shall emanate from the back of the of the APS pushbutton unit via a weatherproof speaker that is protected by a vandal resistant screen.
- The accompanying sign shall be an R10-3e (9" x 15"). Some installations may require a double sided arrow configuration, as noted on the plans.
- Where required for proper orientation of the tactile arrow on the pushbutton and the arrow on the accompanying R10-3e sign with the respective crosswalk, the pushbutton shall be supplemented with the Polara Navigator Pole Adaptor, or approved equal. This may apply to locations that have multiple pushbuttons proposed on the same traffic signal pole.

Tactile Arrows and Locator Tones – Shall meet the following minimum requirements:

- APS pushbuttons shall incorporate a locator tone at the pushbutton the locator tone, measured at 3 feet from the APS pushbutton, shall be 2dB minimum and 5dB maximum above ambient noise level in standard operation and shall be responsive to ambient noise level changes. Locator tone shall consist of multiple frequencies with a dominant component of 880Hz. The duration of the locator tone shall be 0.15s and shall repeat at intervals of 0.15s. The locator tone shall be active during the pedestrian clearance and DON'T WALK intervals.
- APS pushbuttons shall be a minimum of 2 inches across in diameter and shall contract visually with their housing and mounting.
- APS pushbuttons shall include a vibro-tactile arrow aligned parallel to the crosswalk direction. The arrow shall be raised 0.03 inches minimum and shall be 1.5 inches minimum in length. The arrow head shall be open at 45 degrees to the shaft and shall be 33 percent of the length of the shaft. Stroke width shall be 10 percent minimum and 15 percent maximum of arrow length. The arrow shall contrast with the background.
- The arrow shall vibrate during the "WALK" portion of the cycle and ending at the beginning of the pedestrian clearance interval.

Audible Walk Indication – The audible walk indication shall be a percussion tone. The audible walk tone indication shall start at the beginning of the "WALK" portion and ending at the beginning of the pedestrian clearance interval. **Note: The audible walk tone indications shall only be heard when the APS pushbutton is pressed by a pedestrian.**

Configuration Unit - The Contractor shall supply two (2) hand-held, remote configuration units, to Glenn Cabral of RIDOT Maintenance to allow future configuration of custom locator tones, information messages, and custom walk sounds. The configuration unit shall use infrared technology with an LCD display to program the APS pushbuttons. The configuration unit shall be password protected. The configuration unit shall be capable of setting all volumes and features of the APS pushbuttons. The configuration unit shall be capable of setting/updating a single APS pushbutton or all (Global updating) APS pushbuttons on the intersection for most functions. The configuration unit shall have the ability to save 4 user defined and 3 factory pre-set program configurations.

Training - The Contractor or supplier shall provide up to 2 hours of training at a location to be provided by RIDOT Maintenance. The Contractor or supplier shall submit a syllabus to the Glenn Cabral of RIDOT Maintenance for approval prior to training.

CONSTRUCTION METHODS: Mounting Requirements – A maximum mounting height of 42 inches above the finish sidewalk grade shall be used for APS pedestrian pushbuttons.

The Contractor is hereby notified that they are ultimately responsible for constructing all pedestrian push button elements (clear ground space, forward and side arm reaches) in strict compliance with the current ADA rules, regulations and standards.

The Contractor shall establish clear ground space at all pedestrian push button locations, and shall set arm reach lengths according to the ADA rules.

The project has been designed to conform to all AAB rules, and the Engineer is not aware of any required variances for the work presented on the design plans. The Contractor shall notify the Engineer of any project element related to the pedestrian push buttons that will not comply with ADA regulations prior to constructing said pedestrian push button elements.

Installation – The APS pushbuttons shall be installed by Contractor and as recommended by the manufacturer and documented in installation materials provided by the manufacturer. The Contractor shall be responsible for the proper programming of the APS pushbuttons, orientation of the pushbuttons, and all other work necessary to provide a complete and operational APS pushbutton system. The Contractor may be required to adjust volume levels as directed by the Engineer. When the setup is complete and the APS pushbuttons are ready for operation, the values of all parameters that were set during the process shall be delivered to the Engineer in printed and computer-readable form.

At locations where existing pushbuttons are being replaced, the Contractor shall use the existing pedestrian pushbutton wiring.

METHOD OF MEASUREMENT: "ACCESSIBLE PEDESTRIAN SIGNAL (APS) – PEDESTRIAN DETECTOR/PUSHBUTTON WITH SIGN" will be measured for payment by the number of units, per "EACH" installed, tested, and accepted by the Engineer.

"ACCESSIBLE PEDESTRIAN SIGNAL (APS) CONFIGURATION UNIT" will be measured for payment by the number of units, per "EACH" for each unit provided and accepted by the Engineer.

BASIS OF PAYMENT: "ACCESSIBLE PEDESTRIAN SIGNAL (APS) – PEDESTRIAN DETECTOR/PUSHBUTTON WITH SIGN" will be paid for at the contract bid price "EACH" as listed in the proposal. The price so-stated shall constitute full compensation for furnishing all labor, materials, mounting brackets, attachment hardware, signs, field adjustments and settings, customizations, testing, required controller modifications, and all other incidentals complete, in place, and accepted by the Engineer.

"ACCESSIBLE PEDESTRIAN SIGNAL (APS) CONFIGURATION UNIT" will be paid for at the contract bid price "EACH" as listed in the proposal. The price so-stated shall constitute full compensation for furnishing all labor, materials, training for RIDOT Maintenance, and all other incidentals complete, in place, and accepted by the Engineer.

JOB SPECIFIC

CODE T14.9901, T14.9902, T14.9903

**1 WAY PEDESTAL MOUNTED LED PEDESTRIAN SIGNAL HEAD WITH
COUNTDOWN TIMER 12 INCH**

**2 WAY PEDESTAL MOUNTED LED PEDESTRIAN SIGNAL HEAD WITH
COUNTDOWN TIMER 12 INCH**

**1 WAY BRACKET MOUNTED LED PEDESTRIAN SIGNAL HEAD WITH
COUNTDOWN TIMER 12 INCH**

DESCRIPTION: This item of work shall conform to the applicable sections of the Rhode Island Department of Transportation Standard Specifications for Road and Bridge Construction (Amended 2013) with all revisions with the following additions:

All LED Pedestrian Signal Heads, with or without countdown timers supplied for this project shall be identical models of current production. Untried or prototype units shall not be acceptable.

The outside surface of all proposed traffic signal equipment shall be painted gloss black, with the exception of equipment proposed on Traffic Signal Plan 7, which shall be federal yellow.

MATERIALS: The materials for this work shall conform to the relevant provisions of the “Rhode Island Standard Specifications for Road and Bridge Construction” with the following additions:

Pedestrian Signal Housings

The Pedestrian signal housings shall be one or two section, as called for on the plans, 12” polycarbonate, and painted gloss black.

The single section housings or the upper section of the two-section housings shall be 12” and consist of a double message overlay combining the international symbols of a hand and walking man. The lower section of the two section housings shall be a 12” countdown timer.

General

The LED Pedestrian Signal Module and the Countdown Timer shall operate from -40 to +165°F and shall be completely sealed against dust and moisture intrusion per the requirements of NEMA Standard 250-1991 Sections 4.7.2.1 and 4.7.3.2 for type 4 enclosures.

The measured chromaticity coordinates for the “lunar white” walking man and the “Portland orange” hand shall conform to the chromaticity requirements of Section 8.04 and figure 1 of the VTCSH standard.

The driver board shall drive the LED’s at a DC current not exceeding 20 ma.

The LED’s shall not show any changes in color over the input line voltage range of 80 VAC to 135 VAC.

The circuitry shall ensure compatibility and proper triggering and operation of load switches and conflict monitors in use by the traffic signals.

DELETED

DELETED

DELETED

JOB SPECIFIC

SECTION 603
CONTROLLED LOW STRENGTH MATERIAL (CLSM)

Standard Specifications Section 603.03.7 to be amended as follows:

Delete Section 603.03.7 in its entirety and replace it with “**603.03.7 Curing.** *The requirements of Subsection 601.03.8 of these Specifications will apply if there is a probability of the air temperature falling below 35°F and/or the temperature on the surface of the CLSM will fall below 35°F at any time during the first five days after placement. The CLSM shall be protected from freezing until it is hardened. The temperature of the CLSM shall be a minimum of 35°F upon placement. Otherwise, no curing is required.*”

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002	201.0402 Cont.	STA. 47+41 TO STA. 50+14 RT.		288.00	0021	01
		STA. 50+45 TO STA. 51+75 RT.		132.00	0021	01
		STA. 51+99 TO STA. 53+55 RT.		172.00	0021	01
		STA. 53+78 TO STA. 54+13 LT.		44.00	0021	01
Item 201.0402 Total:				13,174.00		
003	201.0403	REMOVE AND DISPOSE SIDEWALKS	SY			
		AMERICA'S CUP AVENUE - MEMORIAL BOULEVARD				
		FOR TYPE III CLSM INSTALLATION		502.00	0021	01
		STA. 12+01 TO STA. 12+20 RT.		18.00	0021	01
		STA. 12+02 TO STA. 12+18 LT.		10.00	0021	01
		STA. 12+26 TO STA. 12+33 LT.		11.00	0021	01
		STA. 12+56 TO STA. 12+87 LT.		22.00	0021	01
		STA. 12+65 TO STA. 13+00 RT.		28.00	0021	01
		STA. 13+27 TO STA. 13+47 LT.		13.00	0021	01
		STA. 17+17 TO STA. 17+39 LT.		22.00	0021	01
		STA. 18+09 TO STA. 18+23 RT.		10.00	0021	01
		STA. 19+43 TO STA. 21+09 RT.		162.00	0021	01
		STA. 20+78 TO STA. 20+94 LT.		26.00	0021	01
		STA. 21+58 TO STA. 21+88 RT.		63.00	0021	01
		STA. 21+71 TO STA. 23+68 RT.		85.00	0021	01
		STA. 21+88 TO STA. 22+07 RT.		15.00	0021	01
		STA. 23+87 TO STA. 24+04 RT.		5.00	0021	01
		STA. 27+06 TO STA. 27+29 RT.		17.00	0021	01
		STA. 27+13 TO STA. 27+19 LT.		5.00	0021	01
		STA. 27+37 TO STA. 27+43 LT.		3.00	0021	01
		STA. 27+56 TO STA. 27+64 RT.		8.00	0021	01
		STA. 30+13 TO STA. 30+46 LT.		76.00	0021	01
		STA. 30+52 TO STA. 30+70		17.00	0021	01
		STA. 30+66 TO STA. 30+85 RT.		15.00	0021	01
		STA. 30+93 TO STA. 31+08		13.00	0021	01

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003	201.0403	Cont.				
		STA. 32+52 TO STA. 32+72 RT.		26.00	0021	01
		STA. 32+58 TO STA. 32+78		19.00	0021	01

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003	201.0403 Cont.	STA. 32+61 TO STA. 33+14 LT.		120.00	0021	01
		STA. 33+19 TO STA. 33+58 LT.		47.00	0021	01
		STA. 33+31 TO STA. 33+48 RT.		11.00	0021	01
		STA. 33+46 TO STA. 33+97		66.00	0021	01
		STA. 34+41 TO STA. 34+47 RT.		3.00	0021	01
		STA. 34+61 TO STA. 34+67 RT.		4.00	0021	01
		STA. 35+31 TO STA. 35+41 RT.		7.00	0021	01
		STA. 35+59 TO STA. 35+65 RT.		7.00	0021	01
		STA. 36+89 TO STA. 37+05 RT.		8.00	0021	01
		STA. 37+32 TO STA. 37+49 RT.		8.00	0021	01
		STA. 37+94 TO STA. 38+03 RT.		5.00	0021	01
		STA. 38+22 TO STA. 38+32 RT.		7.00	0021	01
		STA. 38+46 TO STA. 40+54		134.00	0021	01
		STA. 39+68 TO STA. 42+51 RT.		227.00	0021	01
		STA. 40+52 TO STA. 41+12 LT.		67.00	0021	01
		STA. 41+06 TO STA. 41+49		42.00	0021	01
		STA. 42+35 TO STA. 43+85 LT.		136.00	0021	01
		STA. 42+42 TO STA. 42+67		22.00	0021	01
		STA. 42+82 TO STA. 43+37 RT.		90.00	0021	01
		STA. 43+71 TO STA. 44+69 RT.		15.00	0021	01
		STA. 44+47 TO STA. 45+19 LT.		58.00	0021	01
		STA. 46+63 TO STA. 46+81 LT.		27.00	0021	01
		STA. 46+78 TO STA. 47+13 RT.		45.00	0021	01
		STA. 47+06 TO STA. 53+60 LT.		409.00	0021	01
		STA. 47+29 TO STA. 47+53		30.00	0021	01
		STA. 47+41 TO STA. 47+72 RT.		30.00	0021	01
		STA. 50+08 TO STA. 50+14 RT.		5.00	0021	01
		STA. 50+35 TO STA. 50+56 RT.		17.00	0021	01
		STA. 53+45 TO STA. 53+55 RT.		11.00	0021	01
		STA. 53+78 TO STA. 54+13 LT.		18.00	0021	01
Item 201.0403 Total:				2,867.00		

004 201.0409 REMOVE AND DISPOSE FLEXIBLE SY

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Item No.	Item Code	Description	UM	Qty.	Pay Code	Seq. No.
006	201.0610	REMOVE AND DISPOSE DIRECTIONAL, WARNING, REGULATORY, SERVICE, AND STREET SIGNS	EACH			
		AMERICA'S CUP AVENUE - MEMORIAL BOULEVARD				
		STA. 20+69 LT.		1.00	0021	01
		STA. 21+60 RT.		1.00	0021	01
		STA. 29+56 LT.		1.00	0021	01
		STA. 30+18 LT.		1.00	0021	01
		STA. 33+15 LT.		2.00	0021	01
		STA. 33+50 LT.		1.00	0021	01
		STA. 33+54 LT.		1.00	0021	01
		STA. 40+ 60 RT.		2.00	0021	01
		STA. 40+20 RT.		2.00	0021	01
		STA. 41+42 LT.		1.00	0021	01
		STA. 41+46 LT.		1.00	0021	01
		STA. 47+44 RT.		1.00	0021	01
Item 201.0610 Total:				15.00		
007	201.9901	REMOVE AND SALVAGE TRAFFIC SIGNAL SYSTEM	LS			
		PROJECT WIDE AS NEEDED				
				1.00	0021	01
Item 201.9901 Total:				1.00		
008	201.9902	REMOVE AND STOCKPILE BRICK	SY			
		AMERICA'S CUP AVENUE - MEMORIAL BOULEVARD				
		STA. 17+16 TO STA. 17+33 RT.		18.00	0021	01
		STA. 21+89 TO STA. 22+03 RT.		6.00	0021	01
		STA. 23+87 TO STA. 24+04 RT.		12.00	0021	01
		STA. 26+94 TO STA. 27+13 LT.		18.00	0021	01
		STA. 27+07 TO STA. 27+21 RT.		10.00	0021	01

Distribution of Quantities

Project Name - RI*STARS - Aquidneck Island - America's Cup Avenue and Memorial
Boulevard Improvements (HSIP Funds)

Estimate Name - Addendum No 1

R.I. Contract No. - 2014-CT-015

FAP Nos: STP-STAR(001)

Item No.	Item Code	Description	UM	Qty.	Pay Code	Seq. No.
008	201.9902 Cont.	STA. 27+58 TO STA. 27+64 RT.		2.00	0021	01
		STA. 29+91 TO STA. 30+01 LT.		13.00	0021	01
		STA. 30+66 TO STA. 30+85 RT.		7.00	0021	01
		STA. 33+31 TO STA. 33+48 RT.		15.00	0021	01
		STA. 33+97 TO STA. 36+31		325.00	0021	01
		STA. 34+41 TO STA. 34+47 RT.		5.00	0021	01

Distribution of Quantities

Project Name - RI*STARS - Aquidneck Island - America's Cup Avenue and Memorial
 Boulevard Improvements (HSIP Funds)
 Estimate Name - Addendum No 1
 R.I. Contract No. - 2014-CT-015
 FAP Nos: STP-STAR(001)

Item No.	Item Code	Description	UM	Qty.	Pay Code	Seq. No.
009	201.9903 Cont.	STA. 50+84 TO STA. 51+75 RT.		21.00	0021	01
Item 201.9903 Total:				470.00		
010	201.9904	REMOVE AND DISPOSE TREE GUARD	EACH			
		AMERICA'S CUP AVENUE - MEMORIAL BOULEVARD				
		STA. 48+02 RT.		1.00	0021	01
		STA. 48+45 RT.		1.00	0021	01
		STA. 48+96 RT.		1.00	0021	01
		STA. 49+63 RT.		1.00	0021	01
		STA. 50+05 RT.		1.00	0021	01
Item 201.9904 Total:				5.00		
011	202.0100	EARTH EXCAVATION	CY			
		AMERICA'S CUP AVENUE - MEMORIAL BOULEVARD				
		12" LOAM AND SEED LOCATIONS		125.00	0021	01
		4" CONCRETE SIDEWALK LOCATIONS		365.00	0021	01
		4" LOAM AND SEED LOCATIONS		230.00	0021	01
		8" CONCRETE SIDEWALK LOCATIONS		200.00	0021	01
		BRICK SIDEWALK LOCATIONS		10.00	0021	01
Item 202.0100 Total:				930.00		
012	204.0100	TRIMMING AND FINE GRADING	SY			
		AMERICA'S CUP AVENUE - MEMORIAL BOULEVARD				
		FROM 201.0403		2,867.00	0021	01
		FROM 201.0409		1,773.00	0021	01
		FROM 201.9902		470.00	0021	01
		FROM 201.9903		494.00	0021	01
		FROM L01.0102		2,043.00	0021	01

Distribution of Quantities

Project Name - RI*STARS - Aquidneck Island - America's Cup Avenue and Memorial
 Boulevard Improvements (HSIP Funds)
 Estimate Name - Addendum No 1
 R.I. Contract No. - 2014-CT-015
 FAP Nos: STP-STAR(001)

Item No.	Item Code	Description	UM	Qty.	Pay Code	Seq. No.
012	204.0100	Cont.				
		FROM L01.9901		375.00	0021	01
Item 204.0100 Total:				8,022.00		
013	206.9901	CATCH BASIN INLET PROTECTION	EACH			
		AMERICA'S CUP AVENUE - MEMORIAL				
		BOULEVARD				
		STA. 11+82 RT.		1.00	0021	01
		STA. 11+99 LT.		1.00	0021	01
		STA. 13+39 LT.		1.00	0021	01
		STA. 15+88 LT.		1.00	0021	01
		STA. 16+64 RT.		1.00	0021	01
		STA. 17+32 RT.		1.00	0021	01
		STA. 18+04 RT.		1.00	0021	01
		STA. 18+19 LT.		1.00	0021	01
		STA. 18+37 RT.		1.00	0021	01
		STA. 18+38 RT.		1.00	0021	01
		STA. 19+00 RT.		1.00	0021	01
		STA. 19+39 RT.		1.00	0021	01
		STA. 20+64 LT.		1.00	0021	01
		STA. 20+68 RT.		1.00	0021	01
		STA. 21+09 RT.		1.00	0021	01
		STA. 22+74 RT.		1.00	0021	01
		STA. 22+76 LT.		1.00	0021	01
		STA. 23+41 RT.		1.00	0021	01
		STA. 23+45 LT.		1.00	0021	01
		STA. 25+85 LT.		1.00	0021	01
		STA. 25+87 RT.		1.00	0021	01
		STA. 27+09 RT.		1.00	0021	01
		STA. 28+48 LT.		1.00	0021	01
		STA. 30+05 LT.		1.00	0021	01
		STA. 31+06 RT.		1.00	0021	01
		STA. 31+36 LT.		1.00	0021	01
		STA. 32+05 RT.		1.00	0021	01

Distribution of Quantities

Project Name - RI*STARS - Aquidneck Island - America's Cup Avenue and Memorial
Boulevard Improvements (HSIP Funds)

Estimate Name - Addendum No 1

R.I. Contract No. - 2014-CT-015

FAP Nos: STP-STAR(001)

Item No.	Item Code	Description	UM	Qty.	Pay Code	Seq. No.
013	206.9901 Cont.	STA. 46+54 RT.		1.00	0021	01
		STA. 46+64 LT.		1.00	0021	01
		STA. 47+56 LT.		1.00	0021	01
		STA. 47+59 LT.		1.00	0021	01
		STA. 47+59 RT.		1.00	0021	01
		STA. 49+01 LT.		2.00	0021	01
		STA. 49+01 RT.		2.00	0021	01
		STA. 50+53 RT.		1.00	0021	01
		STA. 50+54 LT.		2.00	0021	01
		STA. 50+58 RT.		1.00	0021	01
		STA. 52+06 LT.		1.00	0021	01
		STA. 52+07 LT.		1.00	0021	01
		STA. 52+07 RT.		1.00	0021	01
		STA. 53+82 RT.		1.00	0021	01
		STA. 53+83 LT.		1.00	0021	01
		STA. 56+03 LT.		1.00	0021	01
		STA. 56+03 RT.		1.00	0021	01
Item 206.9901 Total:				85.00		
014	206.9902	COMPOST FILTER SOCK	LF			
		AMERICA'S CUP AVENUE - MEMORIAL				
		BOULEVARD				
		EASTONS BEACH AREA		8,255.00	0021	01
		STA. 19+60 TO STA. 21+00		290.00	0021	01
		STA. 21+70 TO STA. 30+67		1,812.00	0021	01
		STA. 30+93 TO STA. 32+78		2,357.00	0021	01
		STA. 33+46 TO STA. 40+55		1,429.00	0021	01
		STA. 41+05 TO STA. 42+68		337.00	0021	01
		STA. 43+70 TO STA. 46+67		602.00	0021	01
		STA. 47+29 TO STA. 59+13		2,383.00	0021	01
Item 206.9902 Total:				17,465.00		
015	302.0100	GRAVEL BORROW SUBBASE COURSE	CY			

Distribution of Quantities

Project Name - RI*STARS - Aquidneck Island - America's Cup Avenue and Memorial
 Boulevard Improvements (HSIP Funds)
 Estimate Name - Addendum No 1
 R.I. Contract No. - 2014-CT-015
 FAP Nos: STP-STAR(001)

Item No.	Item Code	Description	UM	Qty.	Pay Code	Seq. No.
015	302.0100 Cont.	AMERICA'S CUP AVENUE - MEMORIAL BOULEVARD 4" CONCRETE SIDEWALK LOCATIONS		365.00	0021	01

Distribution of Quantities

Project Name - RI*STARS - Aquidneck Island - America's Cup Avenue and Memorial
 Boulevard Improvements (HSIP Funds)
 Estimate Name - Addendum No 1
 R.I. Contract No. - 2014-CT-015
 FAP Nos: STP-STAR(001)

Item No.	Item Code	Description	UM	Qty.	Pay Code	Seq. No.
015	302.0100	Cont.				
		8" CONCRETE SIDEWALK		135.00	0021	01
		LOCATIONS				
		BRICK SIDEWALK LOCATIONS		10.00	0021	01
Item 302.0100 Total:				510.00		
016	302.9901	STONE DUST TREE WELL	CY			
		AMERICA'S CUP AVENUE - MEMORIAL				
		BOULEVARD				
		STA. 48+02 RT.		1.00	0021	01
		STA. 48+45 RT.		1.00	0021	01
		STA. 48+96 RT.		1.00	0021	01
		STA. 49+63 RT.		1.00	0021	01
		STA. 50+05 RT.		1.00	0021	01
		STA. 50+54 RT.		1.00	0021	01
Item 302.9901 Total:				6.00		
017	302.9902	REMOVE AND RESET STONE DUST TREE WELL	CY			
		AMERICA'S CUP AVE/MEMORIAL				
		BOULEVARD				
		AS NEEDED		5.00	0021	01
		STA. 27+88 RT.		1.00	0021	01
		STA. 28+15 RT.		1.00	0021	01
		STA. 28+40 RT.		1.00	0021	01
		STA. 28+70 RT.		1.00	0021	01
		STA. 29+02 RT.		1.00	0021	01
		STA. 29+33 RT.		1.00	0021	01
		STA. 29+65 RT.		1.00	0021	01
		STA. 29+97 RT.		1.00	0021	01
		STA. 30+31 RT.		1.00	0021	01
		STA. 30+62 RT.		1.00	0021	01
		STA. 30+95 RT.		1.00	0021	01
		STA. 31+27 RT.		1.00	0021	01

Distribution of Quantities

Project Name - RI*STARS - Aquidneck Island - America's Cup Avenue and Memorial
 Boulevard Improvements (HSIP Funds)

Estimate Name - Addendum No 1

R.I. Contract No. - 2014-CT-015

FAP Nos: STP-STAR(001)

Item No.	Item Code	Description	UM	Qty.	Pay Code	Seq. No.
017	302.9902	Cont. STA. 31+61 RT.		1.00	0021	01

Distribution of Quantities

Project Name - RI*STARS - Aquidneck Island - America's Cup Avenue and Memorial
 Boulevard Improvements (HSIP Funds)
 Estimate Name - Addendum No 1
 R.I. Contract No. - 2014-CT-015
 FAP Nos: STP-STAR(001)

Item No.	Item Code	Description	UM	Qty.	Pay Code	Seq. No.
017	302.9902 Cont.	STA. 31+92 RT.		1.00	0021	01
		STA. 32.25 RT.		1.00	0021	01
Item 302.9902 Total:				20.00		
018	401.9901	CLASS 12.5 HMA WITH PAY FACTORS	TON			
		AMERICA'S CUP AVENUE - MEMORIAL BOULEVARD				
		STA. 11+60 TO STA. 59+13		3,960.00	0021	01
Item 401.9901 Total:				3,960.00		
019	403.0300	ASPHALT EMULSION TACK COAT	SY			
		AMERICA'S CUP AVENUE - MEMORIAL BOULEVARD				
		STA. 11+60 TO STA. 59+13		30,575.00	0021	01
Item 403.0300 Total:				30,575.00		
020	410.1000	TEMPORARY PATCHING	TON			
		MATERIAL/TRENCHES				
		AMERICA'S CUP AVENUE - MEMORIAL BOULEVARD				
		PROJECT WIDE			0021	01
Item 410.1000 Total:				**DELETED**		
021	601.0300	CLASS A PORTLAND CEMENT CONCRETE	CY			
		AMERICA'S CUP AVENUE - MEMORIAL BOULEVARD				
		FROM 906.0100			0021	01
		FROM 906.0101			0021	01
		FROM 906.0110			0021	01
		FROM 906.0111			0021	01
		FROM 906.0118			0021	01
		FROM 906.0119			0021	01
		FROM 906.0120			0021	01

Distribution of Quantities

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 Boulevard Improvements (HSIP Funds)
 Estimate Name - Addendum No 1
 R.I. Contract No. - 2014-CT-015
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Item No.	Item Code	Description	UM	Qty.	Pay Code	Seq. No.
021	601.0300	Cont.				
		FROM 906.0130			0021	01
		FROM 906.0131			0021	01
Item 601.0300 Total:					**DELETED**	
022	701.6012	12 INCH DUCTILE IRON SEWER SAFE	LF			
		PIPE CLASS 52				
		AMERICA'S CUP AVENUE - MEMORIAL				
		BOULEVARD				
		STA. 47+56 TO STA. 47+68 RT.		13.00	0021	01
		STA. 53+88 TO STA. 54+09 LT.		22.00	0021	01
Item 701.6012 Total:				35.00		
023	701.9901	CLOSED CIRCUIT TELEVISION (CCTV)	LF			
		STORMWATER DRAINAGE SYSTEM				
		INSPECTION				
		AMERICA'S CUP AVENUE - MEMORIAL				
		BOULEVARD				
		PROJECT WIDE		20,000.00	0021	01
Item 701.9901 Total:				20,000.00		
024	702.0510	HEAVY-DUTY SQUARE FRAME AND ROUND	EACH			
		COVER STANDARD 6.1.1				
		AMERICA'S CUP AVENUE - MEMORIAL				
		BOULEVARD				
		STA. 47+55 RT.		1.00	0021	01
		STA. 53+87 LT.		1.00	0021	01
Item 702.0510 Total:				2.00		
025	702.0516	FRAME AND GRATE, HIGH CAPACITY,	EACH			
		STANDARD 6.3.4				
		AMERICA'S CUP AVENUE - MEMORIAL				
		BOULEVARD				
		STA. 47+69 RT.		1.00	0021	01

Distribution of Quantities

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Boulevard Improvements (HSIP Funds)
Estimate Name - Addendum No 1
R.I. Contract No. - 2014-CT-015
FAP Nos: STP-STAR(001)

Item No.	Item Code	Description	UM	Qty.	Pay Code	Seq. No.
025	702.0516	Cont.	STA. 54+10 LT.	1.00	0021	01

Distribution of Quantities

Project Name - RI*STARS - Aquidneck Island - America's Cup Avenue and Memorial
Boulevard Improvements (HSIP Funds)

Estimate Name - Addendum No 1

R.I. Contract No. - 2014-CT-015

FAP Nos: STP-STAR(001)

Item No.	Item Code	Description	UM	Qty.	Pay Code	Seq. No.
035	708.9041 Cont.	STA. 52+07 RT.		1.00	0021	01
Item 708.9041 Total:				81.00		
036	713.8269	ADJUST WATER GATE BOXES TO GRADE	EACH			
		AMERICA'S CUP AVENUE - MEMORIAL				
		BOULEVARD				
		STA. 12+34 LT.		1.00	0021	01
		STA. 12+38 LT.		1.00	0021	01
		STA. 12+51 RT.		1.00	0021	01
		STA. 16+50 RT.		1.00	0021	01
		STA. 17+44 LT.		1.00	0021	01
		STA. 17+47 LT.		1.00	0021	01
		STA. 20+95 RT.		1.00	0021	01
		STA. 20+96 RT.		1.00	0021	01
		STA. 21+30 LT.		1.00	0021	01
		STA. 21+30 RT.		1.00	0021	01
		STA. 25+89 RT.		1.00	0021	01
		STA. 28+36 LT.		1.00	0021	01
		STA. 32+92 LT.		1.00	0021	01
		STA. 33+01 LT.		1.00	0021	01
		STA. 42+04 RT.		1.00	0021	01
		STA. 42+42 RT.		1.00	0021	01
		STA. 42+48 LT.		1.00	0021	01
		STA. 42+71 LT.		1.00	0021	01
		STA. 44+89 LT.		1.00	0021	01
		STA. 46+67 LT.		1.00	0021	01
		STA. 47+21 RT.		1.00	0021	01
		STA. 47+42 RT.		1.00	0021	01
Item 713.8269 Total:				22.00		
037	713.8300	ADJUST GAS GATE BOXES TO GRADE	EACH			
		AMERICA'S CUP AVENUE - MEMORIAL				
		BOULEVARD				

Distribution of Quantities

Project Name - RI*STARS - Aquidneck Island - America's Cup Avenue and Memorial
 Boulevard Improvements (HSIP Funds)

Estimate Name - Addendum No 1

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FAP Nos: STP-STAR(001)

Item No.	Item Code	Description	UM	Qty.	Pay Code	Seq. No.
037	713.8300	Cont. STA. 12+53 LT.		1.00	0021	01

Distribution of Quantities

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Boulevard Improvements (HSIP Funds)

Estimate Name - Addendum No 1

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Item No.	Item Code	Description	UM	Qty.	Pay Code	Seq. No.
037	713.8300 Cont.	STA. 12+56 RT.		1.00	0021	01
		STA. 12+57 RT.		1.00	0021	01
		STA. 12+71 RT.		1.00	0021	01
		STA. 12+76 RT.		1.00	0021	01
		STA. 12+96 RT.		1.00	0021	01
		STA. 15+64 RT.		1.00	0021	01
		STA. 15+75 LT.		1.00	0021	01
		STA. 18+12 RT.		1.00	0021	01
		STA. 18+18 RT.		1.00	0021	01
		STA. 35+48 RT.		1.00	0021	01
		STA. 39+43 RT.		1.00	0021	01
		STA. 45+00 LT.		1.00	0021	01
Item 713.8300 Total:				13.00		
038	905.0110	PORTLAND CEMENT SIDEWALK	CY			
		MONOLITHIC STANDARD 43.1.0				
		AMERICA'S CUP AVENUE - MEMORIAL				
		BOULEVARD				
		AS NEEDED		14.00	0021	01
		STA. 12+01 TO STA. 12+20 RT.		4.00	0021	01
		STA. 12+02 TO STA. 12+18 LT.		3.00	0021	01
		STA. 12+26 TO STA. 12+33 LT.		3.00	0021	01
		STA. 12+56 TO STA. 12+87 LT.		5.00	0021	01
		STA. 12+65 TO STA. 13+00 RT.		6.00	0021	01
		STA. 13+27 TO STA. 13+47 LT.		2.00	0021	01
		STA. 17+16 TO STA. 17+33 RT.		4.00	0021	01
		STA. 17+17 TO STA. 17+39 LT.		5.00	0021	01
		STA. 18+12 TO STA. 18+23 RT.		2.00	0021	01
		STA. 19+43 TO STA. 20+85 RT.		11.00	0021	01
		STA. 20+78 TO STA. 20+94 LT.		3.00	0021	01
		STA. 20+81 TO STA. 20+91		2.00	0021	01
		STA. 20+82 TO STA. 21+09 RT.		6.00	0021	01
		STA. 21+57 TO STA. 21+73 RT.		1.00	0021	01

Distribution of Quantities

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 Boulevard Improvements (HSIP Funds)
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Item No.	Item Code	Description	UM	Qty.	Pay Code	Seq. No.
038	905.0110	Cont.	STA. 21+88 TO STA. 22+07 RT.	5.00	0021	01

Distribution of Quantities

Project Name - RI*STARS - Aquidneck Island - America's Cup Avenue and Memorial
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Estimate Name - Addendum No 1

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FAP Nos: STP-STAR(001)

Item No.	Item Code	Description	UM	Qty.	Pay Code	Seq. No.
038	905.0110	Cont.				
		STA. 46+63 TO STA. 46+81 LT.		6.00	0021	01
		STA. 46+78 TO STA. 47+13 RT.		11.00	0021	01
		STA. 47+06 TO STA. 47+54 LT.		11.00	0021	01
		STA. 47+39 TO STA. 47+72 RT.		11.00	0021	01
		STA. 47+44 TO STA. 47+49		1.00	0021	01
		STA. 47+54 TO STA. 53+38 LT.		41.00	0021	01
		STA. 53+10 TO STA. 53+31 RT.		2.00	0021	01
		STA. 53+31 TO STA. 53+55 RT.		9.00	0021	01
		STA. 53+38 TO STA. 53+60 LT.		8.00	0021	01
		STA. 53+39 TO STA. 53+49		2.00	0021	01
		STA. 53+78 TO STA. 53+85 LT.		3.00	0021	01
		STA. 53+85 TO STA. 54+13 LT.		3.00	0021	01
Item 905.0110 Total:				350.00		
039	905.9901	INSTALL SALVAGED BRICK SIDEWALK	SY			
		AMERICA'S CUP AVENUE - MEMORIAL BOULEVARD				
		STA. 19+51 TO STA. 19+89 RT.		13.00	0021	01
		STA. 19+95 TO STA. 20+36 RT.		14.00	0021	01
		STA. 20+41 TO STA. 20+86 RT.		15.00	0021	01
Item 905.9901 Total:				42.00		
040	906.0100	SLOPE FACED GRANITE CURB - QUARRY	LF			
		SPLIT STRAIGHT STANDARD 7.4.0				
		AMERICA'S CUP AVENUE - MEMORIAL BOULEVARD				
		STA. 19+65 TO STA. 20+79 RT.		114.00	0021	01
		STA. 19+68 TO STA. 20+61 LT.		93.00	0021	01
		STA. 20+81		8.00	0021	01
		STA. 20+91 RT.		6.00	0021	01
		STA. 20+92 TO STA. 20+97 RT.		5.00	0021	01
		STA. 20+92 TO STA. 20+98 RT.		6.00	0021	01
		STA. 21+57 TO STA. 21+58 RT.		16.00	0021	01

Distribution of Quantities

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 Estimate Name - Addendum No 1
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 FAP Nos: STP-STAR(001)

Item No.	Item Code	Description	UM	Qty.	Pay Code	Seq. No.
041	906.0101	Cont.				
		STA. 40+53 TO STA. 40+55 LT.		6.00	0021	01
		STA. 41+05 TO STA. 41+19		22.00	0021	01
		STA. 42+20 TO STA. 42+22 LT.		3.00	0021	01
		STA. 42+20 TO STA. 42+22 RT.		3.00	0021	01
		STA. 42+41 TO STA. 42+44 RT.		4.00	0021	01
		STA. 42+42 TO STA. 42+43 LT.		3.00	0021	01
		STA. 42+58 TO STA. 42+68		16.00	0021	01
		STA. 42+84 TO STA. 42+87 RT.		6.00	0021	01
		STA. 43+33 TO STA. 43+38 RT.		8.00	0021	01
		STA. 43+70 TO STA. 43+71 RT.		3.00	0021	01
		STA. 44+87 TO STA. 44+99		12.00	0021	01
		STA. 46+61 TO STA. 46+67		18.00	0021	01
		STA. 47+29 TO STA. 47+35		20.00	0021	01
		STA. 47+42 TO STA. 47+44 LT.		3.00	0021	01
		STA. 47+42 TO STA. 47+44 RT.		3.00	0021	01
		STA. 47+49 TO STA. 47+51 LT.		3.00	0021	01
		STA. 47+49 TO STA. 47+51 RT.		3.00	0021	01
		STA. 53+36 TO STA. 53+38 RT.		3.00	0021	01
		STA. 53+37 TO STA. 53+39 LT.		3.00	0021	01
		STA. 53+48 TO STA. 53+50 RT.		3.00	0021	01
		STA. 53+49 TO STA. 53+51 LT.		3.00	0021	01
		STA. 57+67 TO STA. 58+08		42.00	0021	01
Item 906.0101 Total:				545.00		
042	906.0110	GRANITE CURB, QUARRY SPLIT	LF			
		STRAIGHT, STANDARD 7.3.0				
		AMERICA'S CUP AVENUE - MEMORIAL				
		BOULEVARD				
		STA. 12+02 TO STA. 12+14 LT.		13.00	0021	01
		STA. 12+84 TO STA. 12+87 LT.		4.00	0021	01
		STA. 13+27 TO STA. 13+37 LT.		10.00	0021	01
		STA. 18+11 TO STA. 18+21 RT.			0021	01
		STA. 19+49 TO STA. 20+58 RT.		111.00	0021	01

Distribution of Quantities

Project Name - RI*STARS - Aquidneck Island - America's Cup Avenue and Memorial
Boulevard Improvements (HSIP Funds)

Estimate Name - Addendum No 1

R.I. Contract No. - 2014-CT-015

FAP Nos: STP-STAR(001)

Item No.	Item Code	Description	UM	Qty.	Pay Code	Seq. No.
042	906.0110	Cont.				
		STA. 53+77 LT.		3.00	0021	01
		STA. 53+96 TO STA. 53+98 LT.		3.00	0021	01
Item 906.0110 Total:				4,126.00		
043	906.0111	GRANITE CURB, QUARRY SPLIT	LF			
		CIRCULAR, STANDARD 7.3.0				
		AMERICA'S CUP AVENUE - MEMORIAL				
		BOULEVARD				
		STA. 12+02 TO STA. 12+10 RT.		8.00	0021	01
		STA. 12+15 TO STA. 12=18 LT.		6.00	0021	01
		STA. 12+18 TO STA. 12+20 RT.		7.00	0021	01
		STA. 12+31 TO STA. 12+32 LT.		4.00	0021	01
		STA. 12+63 TO STA. 12+71 LT.		10.00	0021	01
		STA. 12+64 TO STA. 12+73 RT.		18.00	0021	01
		STA. 12+84 TO STA. 13+01 RT.		17.00	0021	01
		STA. 17+06 TO STA. 17+25 RT.		20.00	0021	01
		STA. 17+34 TO STA. 17+44 LT.		8.00	0021	01
		STA. 18+08 TO STA. 18+11 RT.			0021	01
		STA. 20+87 TO STA. 21+10 RT.		21.00	0021	01
		STA. 21+98 TO STA. 22+01 RT.		4.00	0021	01
		STA. 29+64 TO STA. 29+98 LT.		54.00	0021	01
		STA. 30+07 TO STA. 30+09 LT.		4.00	0021	01
		STA. 30+45 TO STA. 30+47 LT.		4.00	0021	01
		STA. 30+65 TO STA. 30+66 LT.		3.00	0021	01
		STA. 32+41 TO STA. 32+85 LT.		31.00	0021	01
		STA. 32+49 TO STA. 32+73 RT.		13.00	0021	01
		STA. 33+19 TO STA. 33+21 LT.		5.00	0021	01
		STA. 33+19 TO STA. 33+31 RT.		12.00	0021	01
		STA. 33+31 TO STA. 33+45 LT.		15.00	0021	01
		STA. 34+43 TO STA. 34+48 RT.		8.00	0021	01
		STA. 34+61 TO STA. 34+66 RT.		8.00	0021	01
		STA. 35+18 TO STA. 35+43 RT.		23.00	0021	01
		STA. 35+61 TO STA. 35+69 RT.		10.00	0021	01

Distribution of Quantities

Project Name - RI*STARS - Aquidneck Island - America's Cup Avenue and Memorial
Boulevard Improvements (HSIP Funds)

Estimate Name - Addendum No 1

R.I. Contract No. - 2014-CT-015

FAP Nos: STP-STAR(001)

Item No.	Item Code	Description	UM	Qty.	Pay Code	Seq. No.
043	906.0111 Cont.	STA. 36+67 RT.		3.00	0021	01
		STA. 36+84 TO STA. 36+97 RT.		21.00	0021	01
		STA. 37+40 TO STA. 37+54 RT.		21.00	0021	01
		STA. 37+87 TO STA. 37+97 RT.		12.00	0021	01
		STA. 38+29 TO STA. 38+32 RT.		4.00	0021	01
		STA. 39+22 TO STA. 39+39 RT.		26.00	0021	01
		STA. 39+46 TO STA. 39+47 RT.		4.00	0021	01
		STA. 39+73 TO STA. 39+95 RT.		26.00	0021	01
		STA. 40+74 TO STA. 40+90 LT.		13.00	0021	01
		STA. 40+94 TO STA. 41+13 LT.		43.00	0021	01
		STA. 41+39 TO STA. 41+42 LT.		6.00	0021	01
		STA. 41+42 TO STA. 41+50 LT.		7.00	0021	01
		STA. 41+75 TO STA. 41+83 LT.		11.00	0021	01
		STA. 41+88 TO STA. 42+24 RT.		42.00	0021	01
		STA. 42+39 TO STA. 42+47 RT.		13.00	0021	01
		STA. 42+52 TO STA. 42+56 LT.		4.00	0021	01
		STA. 42+60 TO STA. 42+81 LT.		18.00	0021	01
		STA. 42+85 TO STA. 42+89 RT.		6.00	0021	01
		STA. 43+33 TO STA. 43+38 RT.		8.00	0021	01
		STA. 43+70 TO STA. 43+72 RT.		3.00	0021	01
		STA. 46+72 TO STA. 46+81 LT.		7.00	0021	01
		STA. 47+02 TO STA. 47+05 RT.		4.00	0021	01
		STA. 47+06 TO STA. 47+11 LT.		9.00	0021	01
		STA. 47+22 TO STA. 47+34 LT.		13.00	0021	01
		STA. 47+47 TO STA. 47+67 RT.		21.00	0021	01
		STA. 47+49 TO STA. 47+54 LT.		5.00	0021	01
		STA. 53+10 TO STA. 53+31 RT.		23.00	0021	01
		STA. 53+17 TO STA. 53+38 LT.		24.00	0021	01
		STA. 53+48 TO STA. 53+55 RT.		9.00	0021	01
		STA. 53+55 TO STA. 53+60 LT.		7.00	0021	01
		STA. 53+79 TO STA. 53+96 LT.		19.00	0021	01
		STA. 53+98 TO STA. 54+08 LT.		11.00	0021	01
Item 906.0111 Total:				756.00		

Distribution of Quantities

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Boulevard Improvements (HSIP Funds)

Estimate Name - Addendum No 1

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FAP Nos: STP-STAR(001)

Item No.	Item Code	Description	UM	Qty.	Pay Code	Seq. No.
048	906.0131 Cont.	STA. 17+28 RT.		1.00	0021	01
		STA. 18+14 RT.		1.00	0021	01
		STA. 20+94 RT.		1.00	0021	01
		STA. 21+94 RT.		1.00	0021	01
		STA. 30+00 LT.		1.00	0021	01
		STA. 30+11 LT.		1.00	0021	01
		STA. 32+65 RT.		1.00	0021	01
		STA. 32+75 LT.		1.00	0021	01
		STA. 35+38 RT.		1.00	0021	01
		STA. 35+61 RT.		1.00	0021	01
		STA. 38+23 RT.		1.00	0021	01
		STA. 39+42 RT.		1.00	0021	01
		STA. 39+70 RT.		1.00	0021	01
		STA. 42+44 LT.		1.00	0021	01
		STA. 46+80 LT.		1.00	0021	01
		STA. 47+08 RT.		1.00	0021	01
		STA. 47+16 LT.		1.00	0021	01
		STA. 47+40 RT.		1.00	0021	01
		STA. 47+42 LT.		1.00	0021	01
Item 906.0131 Total:				24.00		
049	914.5010	FLAGPERSONS	MHRS			
		PROJECT WIDE				
		AS NEEDED		2,700.00	0021	01
Item 914.5010 Total:				2,700.00		
050	914.5020	FLAGPERSONS - OVERTIME	MHRS			
		PROJECT WIDE				
		AS NEEDED		270.00	0021	01
Item 914.5020 Total:				270.00		
051	922.0100	TEMPORARY CONSTRUCTION SIGNS	SF			
		STANDARD 29.1.0 AND 27.1.1				

Distribution of Quantities

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Boulevard Improvements (HSIP Funds)
Estimate Name - Addendum No 1
R.I. Contract No. - 2014-CT-015
FAP Nos: STP-STAR(001)

Item No.	Item Code	Description	UM	Qty.	Pay Code	Seq. No.
051	922.0100	Cont. PROJECT WIDE				

Distribution of Quantities

Project Name - RI*STARS - Aquidneck Island - America's Cup Avenue and Memorial
Boulevard Improvements (HSIP Funds)

Estimate Name - Addendum No 1

R.I. Contract No. - 2014-CT-015

FAP Nos: STP-STAR(001)

Item No.	Item Code	Description	UM	Qty.	Pay Code	Seq. No.
058	932.0100	Cont.				
		STA. 39+45 TO STA. 39+67 RT.		11.00	0021	01
		STA. 40+97 TO STA. 41+50 LT.		37.00	0021	01
		STA. 41+82 TO STA. 42+30		40.00	0021	01
		STA. 42+48 TO STA. 42+82 RT.		42.00	0021	01
		STA. 43+39 TO STA. 43+70 RT.		31.00	0021	01
		STA. 46+80 TO STA. 47+05 LT.		27.00	0021	01
		STA. 47+17 TO STA. 47+41 RT.		26.00	0021	01
		STA. 53+59 RT.		43.00	0021	01
		STA. 53+61 LT.		37.00	0021	01
Item 932.0100 Total:				732.00		
059	932.0200	FULL-DEPTH SAWCUT OF BITUMINOUS PAVEMENT	LF			
		AMERICA'S CUP AVENUE - MEMORIAL BOULEVARD				
		CODE 906.0100		7,176.00	0021	01
		CODE 906.0101		545.00	0021	01
		CODE 906.0110		4,126.00	0021	01
		CODE 906.0111		756.00	0021	01
		CODE 906.0118		342.00	0021	01
		CODE 906.0119		6.00	0021	01
		CODE 906.0120		288.00	0021	01
		CODE 906.0130		72.00	0021	01
		CODE 906.0131		96.00	0021	01
Item 932.0200 Total:				13,407.00		
060	932.0220	FULL DEPTH SAWCUT OF BITUMINOUS SIDEWALK/DRIVEWAY	LF			
		AMERICA'S CUP AVENUE - MEMORIAL BOULEVARD				
		STA. 19+15 TO STA. 19+43 RT.		29.00	0021	01
		STA. 19+27 TO STA. 19+67 LT.		43.00	0021	01
		STA. 27+17 TO STA. 27+40 LT.		20.00	0021	01

Distribution of Quantities

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Boulevard Improvements (HSIP Funds)

Estimate Name - Addendum No 1

R.I. Contract No. - 2014-CT-015

FAP Nos: STP-STAR(001)

Item No.	Item Code	Description	UM	Qty.	Pay Code	Seq. No.
060	932.0220	Cont.				
		STA. 27+19 TO STA. 27+37 LT.		16.00	0021	01
		STA. 27+28 TO STA. 27+59 RT.		34.00	0021	01
		STA. 27+29 TO STA. 27+56 RT.		31.00	0021	01
Item 932.0220 Total:				173.00		
061	932.0230	FULL DEPTH SAWCUT OF PORTLAND CEMENT CONCRETE SIDEWALK/DRIVEWAY	LF			
		AMERICA'S CUP AVENUE - MEMORIAL BOULEVARD				
		FOR TYPE III CLSM INSTALLATION		4,516.00	0021	01
		STA. 12+02 LT.		5.00	0021	01
		STA. 12+14 TO STA. 12+20 RT.		6.00	0021	01
		STA. 12+18 LT.		5.00	0021	01
		STA. 12+25 TO STA. 12+33 LT.		12.00	0021	01
		STA. 12+56 TO STA. 12+60 LT.		5.00	0021	01
		STA. 12+65 TO STA. 12+70 RT.		6.00	0021	01
		STA. 12+87 LT.		6.00	0021	01
		STA. 13+00 RT.		6.00	0021	01
		STA. 13+27 LT.		6.00	0021	01
		STA. 13+47 LT.		6.00	0021	01
		STA. 14+74 TO STA. 14+88 LT.		14.00	0021	01
		STA. 17+21 LT.		9.00	0021	01
		STA. 17+39 LT.		11.00	0021	01
		STA. 18+21 TO STA. 18+23 RT.		7.00	0021	01
		STA. 18+80 TO STA. 19+27 LT.		46.00	0021	01
		STA. 19+43 TO STA. 20+82 RT.		146.00	0021	01
		STA. 19+67 TO STA. 20+12 LT.		45.00	0021	01
		STA. 20+78 LT.		12.00	0021	01
		STA. 20+82 TO STA. 21+09 RT.		46.00	0021	01
		STA. 20+94 LT.		14.00	0021	01
		STA. 21+91 RT.		6.00	0021	01
		STA. 22+03 RT.		6.00	0021	01

Distribution of Quantities

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Boulevard Improvements (HSIP Funds)

Estimate Name - Addendum No 1

R.I. Contract No. - 2014-CT-015

FAP Nos: STP-STAR(001)

Item No.	Item Code	Description	UM	Qty.	Pay Code	Seq. No.
061	932.0230 Cont.	STA. 23+17 TO STA. 23+44 LT.		27.00	0021	01
		STA. 24+79 TO STA. 25+06 LT.		28.00	0021	01

Distribution of Quantities

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Estimate Name - Addendum No 1

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FAP Nos: STP-STAR(001)

Item No.	Item Code	Description	UM	Qty.	Pay Code	Seq. No.
061	932.0230 Cont.	STA. 45+78 TO STA. 46+04 LT.		26.00	0021	01
		STA. 46+63 LT.		6.00	0021	01
		STA. 46+72 TO STA. 46+81 LT.		9.00	0021	01
		STA. 46+78 RT.		5.00	0021	01
		STA. 47+06 TO STA. 47+12 LT.		7.00	0021	01
		STA. 47+06 TO STA. 47+13 RT.		7.00	0021	01
		STA. 47+42 TO STA. 47+49 RT.		8.00	0021	01
		STA. 47+63 RT.		7.00	0021	01
		STA. 50+08 TO STA. 50+56 RT.		77.00	0021	01
		STA. 51+75 TO STA. 51+99 RT.		24.00	0021	01
		STA. 52+07 TO STA. 53+57 LT.		155.00	0021	01
		STA. 53+37 TO STA. 53+60 LT.		3.00	0021	01
		STA. 53+45 RT		6.00	0021	01
		STA. 53+51 TO STA. 53+54 RT.		4.00	0021	01
		STA. 53+78 TO STA. 53+82 LT.		4.00	0021	01
		STA. 54+13 LT.		4.00	0021	01
Item 932.0230 Total:				5,836.00		
062	935.0400	REMOVING BITUMINOUS PAVEMENT BY	SY			
		MICRO MILLING				
		AMERICA'S CUP AVENUE - MEMORIAL				
		BOULEVARD				
		STA. 11+60 TO STA. 53+61		30,575.00	0021	01
Item 935.0400 Total:				30,575.00		
063	936.0110	MOBILIZATION	LS			
		PROJECT WIDE				
		AS NEEDED		1.00	0021	01
Item 936.0110 Total:				1.00		
064	937.0200	MAINTENANCE AND MOVEMENT TRAFFIC	LS			
		PROTECTION				
		PROJECT WIDE				

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 Estimate Name - Addendum No 1
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Item No.	Item Code	Description	UM	Qty.	Pay Code	Seq. No.
S071	L06.9901 Cont.	STA. 35+99		1.00	0021	01
		STA. 36+34		1.00	0021	01
Item L06.9901 Total:				7.00		
072	L06.9902	ACER RUBRUM ARMSTRONG 'ARMSTRONG RED MAPLE', 3-3.5" CALIPER AMERICA'S CUP AVENUE - MEMORIAL BOULEVARD STA. 50+52 RT.	EACH	1.00	0021	01
Item L06.9902 Total:				1.00		
073	L06.9903	PLATANUS ACERIFOLIA 'LONDON PLANE BLOODGOOD', 3-3.5" CALIPER AMERICA'S CUP AVENUE - MEMORIAL BOULEVARD STA. 53+32 STA. 53+53	EACH	1.00 1.00	0021 0021	01 01
Item L06.9903 Total:				2.00		
074	L06.9904	PINE BARK MULCH AMERICA'S CUP AVENUE - MEMORIAL BOULEVARD STA. 18+09 TO STA. 18+20 RT.	SY	4.00	0021	01
Item L06.9904 Total:				4.00		
075	L11.0102	TREE PLANT PROTECTION DEVICE STANDARD 51.1.0 AMERICA'S CUP AVENUE - MEMORIAL BOULEVARD PROJECT WIDE	EACH	50.00	0021	01
Item L11.0102 Total:				50.00		
076	L11.0104	DRIP-LINE TREE PROTECTION DEVICE	LF			

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 FAP Nos: STP-STAR(001)

Item No.	Item Code	Description	UM	Qty.	Pay Code	Seq. No.
098	T14.3713 Cont.	Item T14.3713 Total:		1.00		
099	T14.9901	1 WAY PEDESTAL MOUNTED LED	EACH			
		PEDESTRIAN SIGNAL HEAD WITH				
		COUNTDOWN TIMER 12 INCH				
		TRAFFIC SIGNAL PLAN 1				
		AMERICA'S CUP AVE AT BRIDGE		1.00	0021	01
		ST				
		TRAFFIC SIGNAL PLAN 3				
		AMERICA'S CUP AVE AT LONG		2.00	0021	01
		WHARF				
		TRAFFIC SIGNAL PLAN 4				
		AMERICA'S CUP AVE AT MARKET		3.00	0021	01
		ST/ THAMES ST				
		TRAFFIC SIGNAL PLAN 5				
		MEMORIAL BLVD AT THAMES ST		2.00	0021	01
		TRAFFIC SIGNAL PLAN 6				
		MEMORIAL BLVD AT SPRING ST		1.00	0021	01
		Item T14.9901 Total:		9.00		
100	T14.9902	2 WAY PEDESTAL MOUNTED LED	EACH			
		PEDESTRIAN SIGNAL HEAD WITH				
		COUNTDOWN TIMER 12 INCH				
		TRAFFIC SIGNAL PLAN 1				
		AMERICA'S CUP AVE AT BRIDGE		2.00	0021	01
		ST				
		TRAFFIC SIGNAL PLAN 4				
		AMERICA'S CUP AVE AT MARKET		2.00	0021	01
		ST/ THAMES ST				
		TRAFFIC SIGNAL PLAN 6				
		MEMORIAL BLVD AT SPRING ST		3.00	0021	01
		Item T14.9902 Total:		7.00		

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 R.I. Contract No. - 2014-CT-015
 FAP Nos: STP-STAR(001)

Item No.	Item Code	Description	UM	Qty.	Pay Code	Seq. No.
101	T14.9903	1 WAY BRACKET MOUNTED LED	EACH			
		PEDESTRIAN SIGNAL HEAD WITH				
		COUNTDOWN TIMER 12 INCH				
		TRAFFIC SIGNAL PLAN 1				
		AMERICA'S CUP AVE AT BRIDGE		1.00	0021	01
		ST				
		TRAFFIC SIGNAL PLAN 4				
		AMERICA'S CUP AVE AT MARKET		2.00	0021	01
		ST/ THAMES ST				
Item T14.9903 Total:				3.00		

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 Boulevard Improvements (HSIP Funds)
 Estimate Name - Addendum No 1
 R.I. Contract No. - 2014-CT-015
 FAP Nos: STP-STAR(001)

Item No.	Item Code	Description	UM	Qty.	Pay Code	Seq. No.
102	T14.9904	REMOVE AND RELOCATE TRAFFIC SIGNAL EQUIPMENT	EACH			
		TRAFFIC SIGNAL PLAN 1				
		AMERICA'S CUP AVE AT BRIDGE ST			0021	01
		TRAFFIC SIGNAL PLAN 3				
		AMERICA'S CUP AVE AT LONG WHARF			0021	01
		TRAFFIC SIGNAL PLAN 4				
		AMERICA'S CUP AVE AT MARKET ST/ THAMES ST			0021	01
		TRAFFIC SIGNAL PLAN 5				
		MEMORIAL BLVD AT THAMES ST			0021	01
		TRAFFIC SIGNAL PLAN 6				
		MEMORIAL BLVD AT SPRING ST			0021	01
Item T14.9904 Total:					**DELETED**	
103	T15.0100	DIRECTIONAL REGULATORY AND WARNING SIGNS	SF			
		AMERICA'S CUP AVENUE - MEMORIAL BOULEVARD				
		AS NEEDED		17.75	0021	01
		STA. 13+70 LT. R3-7R (30" X 30")		6.25	0021	01
		STA. 17+52 LT. R3-8R (30" X 30")		6.25	0021	01
		STA. 21+85 RT. R10-11A (36" X 30")		7.50	0021	01
		STA. 25+77 LT. W9-2(MOD) (30" X 30")		6.25	0021	01
		STA. 26+62 RT. R1-5L (36" X 36")		9.00	0021	01
		STA. 26+62 RT. R1-5R (36" X 36")		9.00	0021	01

Distribution of Quantities

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FAP Nos: STP-STAR(001)

Item No.	Item Code	Description	UM	Qty.	Pay Code	Seq. No.
103	T15.0100 Cont.	36")				
		STA. 27+09 RT. W11-2 (30" X 30")		6.25	0021	01
		STA. 27+09 RT. W16-7PL (24" X 12")		2.00	0021	01
		STA. 27+12 LT. W11-2 (30" X 30")		6.25	0021	01
		STA. 27+12 LT. W16-7PL (24" X 12")		2.00	0021	01
		STA. 27+71 LT. R1-5L (36" X 36")		9.00	0021	01
		STA. 27+71 LT. R1-5R (36" X 36")		9.00	0021	01
		STA. 29+00 LT. W16-2AP (30" X 30")		2.00	0021	01
		STA. 29+00 LT. W9-1(MOD) (30" X 30")		6.25	0021	01
		STA. 29+56 LT. R1-2 (36" X 36" X 36")		4.00	0021	01
		STA. 30+02 LT. W11-2 (30" X 30")		6.25	0021	01
		STA. 30+02 LT. W16-7PL (24" X 12")		2.00	0021	01
		STA. 30+18 LT. W11-2 (30" X 30")		6.25	0021	01
		STA. 30+18 LT. W16-7PR (24" X 12")		2.00	0021	01
		STA. 33+11 LT. R5-1 (30" X 30")		6.25	0021	01
		STA. 33+11 LT. R6-2L (24" X 30")		5.00	0021	01
		STA. 33+56 LT. R3-1 (36" X 36")		9.00	0021	01

Distribution of Quantities

Project Name - RI*STARS - Aquidneck Island - America's Cup Avenue and Memorial
Boulevard Improvements (HSIP Funds)

Estimate Name - Addendum No 1

R.I. Contract No. - 2014-CT-015

FAP Nos: STP-STAR(001)

Item No.	Item Code	Description	UM	Qty.	Pay Code	Seq. No.
103	T15.0100 Cont.	STA. 35+54 LT. W11-2 (30" X 30")		6.25	0021	01
		STA. 35+54 LT. W16-7PL (24" X 12")		2.00	0021	01
		STA. 35+64 RT. W11-2 (30" X 30")		6.25	0021	01

Distribution of Quantities

Project Name - RI*STARS - Aquidneck Island - America's Cup Avenue and Memorial
Boulevard Improvements (HSIP Funds)

Estimate Name - Addendum No 1

R.I. Contract No. - 2014-CT-015

FAP Nos: STP-STAR(001)

Item No.	Item Code	Description	UM	Qty.	Pay Code	Seq. No.
103	T15.0100 Cont.	STA. 35+64 RT. W16-7PL (24" X 12")		2.00	0021	01
		STA. 40+69 RT. R4-4 (36" X 30")		7.50	0021	01
		STA. 41+42 LT. R5-1 (30" X 30")		6.25	0021	01
		STA. 41+46 LT. R5-1 (30" X 30")		6.25	0021	01
		STA. 41+67 RT. R3-7R (36" X 36")		9.00	0021	01
		STA. 41+67 RT. R5-99P (30" X 30")		6.25	0021	01
		STA. 42+60 RT. W11-2 (30" X 30")		6.25	0021	01
		STA. 42+60 RT. W16-7PL (24" X 12")		2.00	0021	01
		STA. 42+79 RT. W11-2 (30" X 30")		6.25	0021	01
		STA. 42+79 RT. W16-7PL (24" X 12")		2.00	0021	01
		STA. 43+19 RT. R5-1 (30" X 30")		6.25	0021	01
		STA. 43+32 RT. R5-1 (30" X 30")		6.25	0021	01
		STA. 43+32 RT. R6-1L (36" X 12")		3.00	0021	01
		STA. 43+32 RT. R6-1R (36" X 12")		3.00	0021	01
		STA. 47+04 RT. R6-1L (36" X 12")		3.00	0021	01
		STA. 47+04 RT. R6-1R (36" X 12")		3.00	0021	01
		STA. 47+44 RT. R5-1 (30" X 30")		6.25	0021	01

Distribution of Quantities

Project Name - RI*STARS - Aquidneck Island - America's Cup Avenue and Memorial
Boulevard Improvements (HSIP Funds)

Estimate Name - Addendum No 1

R.I. Contract No. - 2014-CT-015

FAP Nos: STP-STAR(001)

<u>Item No.</u>	<u>Item Code</u>	<u>Description</u>	<u>UM</u>	<u>Qty.</u>	<u>Pay Code</u>	<u>Seq. No.</u>
103	T15.0100 Cont.	30")				
		STA. 51+71 RT. W16-2AP (24" X 12")		2.00	0021	01
		STA. 51+71 RT. W9-1(MOD)		6.25	0021	01

Distribution of Quantities

Project Name - RI*STARS - Aquidneck Island - America's Cup Avenue and Memorial
Boulevard Improvements (HSIP Funds)

Estimate Name - Addendum No 1

R.I. Contract No. - 2014-CT-015

FAP Nos: STP-STAR(001)

Item No.	Item Code	Description	UM	Qty.	Pay Code	Seq. No.
103	T15.0100	Cont.				
		(30" X 30")				
		STA. 52+95 RT. R1-5L (36" X 36")		9.00	0021	01
		STA. 52+95 RT. R1-5R (36" X 36")		9.00	0021	01
		STA. 53+29 RT. W9-2(MOD) (30" X 30")		6.25	0021	01
		STA. 54+00 LT. R1-5L (36" X 36")		9.00	0021	01
		STA. 54+00 LT. R1-5R (36" X 36")		9.00	0021	01
Item T15.0100 Total:				295.00		
104	T15.0200	REMOVE AND RELOCATE DIRECTIONAL REGULATORY AND WARNING SIGN	EACH			
		AMERICA'S CUP AVENUE - MEMORIAL BOULEVARD				
		STA. 17+12 TO STA. 17+17 LT.		1.00	0021	01
		STA. 30+16 TO STA. 30+12 LT.		1.00	0021	01
		STA. 38+30 TO STA. 38+33 RT.		1.00	0021	01
		STA. 42+26 TO STA. 42+44 LT.		1.00	0021	01
		STA. 42+31 TO STA. 42+50 LT.		1.00	0021	01
		STA. 47+07 TO STA. 47+04 RT.		1.00	0021	01
		STA. 47+45 TO STA. 47+37 LT.		1.00	0021	01
Item T15.0200 Total:				7.00		
105	T15.9901	REMOVE AND RESET SIGN	EACH			
		AMERICA'S CUP AVENUE - MEMORIAL BOULEVARD				
		AS NEEDED		5.00	0021	01
		STA. 12+76 LT.		1.00	0021	01
		STA. 21+60 RT.			0021	01
		STA. 30+43 LT.		1.00	0021	01

Distribution of Quantities

Project Name - RI*STARS - Aquidneck Island - America's Cup Avenue and Memorial
 Boulevard Improvements (HSIP Funds)

Estimate Name - Addendum No 1

R.I. Contract No. - 2014-CT-015

FAP Nos: STP-STAR(001)

Item No.	Item Code	Description	UM	Qty.	Pay Code	Seq. No.
105	T15.9901 Cont.	STA. 32+75 RT.		1.00	0021	01
		STA. 33+54		1.00	0021	01

Distribution of Quantities

Project Name - RI*STARS - Aquidneck Island - America's Cup Avenue and Memorial
Boulevard Improvements (HSIP Funds)

Estimate Name - Addendum No 1

R.I. Contract No. - 2014-CT-015

FAP Nos: STP-STAR(001)

Item No.	Item Code	Description	UM	Qty.	Pay Code	Seq. No.
105	T15.9901 Cont.	STA. 33+54 LT.			0021	01
		STA. 34+55 RT.		1.00	0021	01
		STA. 34+87 RT.		1.00	0021	01
		STA. 35+55 RT.		1.00	0021	01
		STA. 35+75 RT.		1.00	0021	01
		STA. 36+01 LT.		1.00	0021	01
		STA. 37+15 RT.		1.00	0021	01
		STA. 38+14 RT.		1.00	0021	01
		STA. 38+74 RT.		1.00	0021	01
		STA. 39+41 LT.		1.00	0021	01
		STA. 39+57 LT.		1.00	0021	01
		STA. 40+20 RT.		1.00	0021	01
		STA. 40+47 LT.		1.00	0021	01
		STA. 40+53 LT.		1.00	0021	01
		STA. 41+09 RT.		1.00	0021	01
		STA. 41+16 RT.		1.00	0021	01
		STA. 42+24 RT.		1.00	0021	01
		STA. 42+34 RT.		1.00	0021	01
		STA. 47+31		1.00	0021	01
		STA. 48+04 LT.		1.00	0021	01
		STA. 49+45 LT.		1.00	0021	01
		STA. 51+55 LT.		1.00	0021	01
		STA. 52+24 LT.		1.00	0021	01
		STA. 53+50 RT.			0021	01
Item T15.9901 Total:				31.00		
106	T15.9902	REMOVE AND RESET PARKING METER	EACH			
		AMERICA'S CUP AVENUE - MEMORIAL				
		BOULEVARD				
		STA. 44+31 RT.		1.00	0021	01
		STA. 44+73 RT.		1.00	0021	01
		STA. 45+04 RT.		1.00	0021	01
		STA. 45+48 RT.		1.00	0021	01

Distribution of Quantities

Project Name - RI*STARS - Aquidneck Island - America's Cup Avenue and Memorial
 Boulevard Improvements (HSIP Funds)

Estimate Name - Addendum No 1

R.I. Contract No. - 2014-CT-015

FAP Nos: STP-STAR(001)

Item No.	Item Code	Description	UM	Qty.	Pay Code	Seq. No.
106	T15.9902 Cont.	STA. 45+87 RT.		1.00	0021	01

Distribution of Quantities

Project Name - RI*STARS - Aquidneck Island - America's Cup Avenue and Memorial
 Boulevard Improvements (HSIP Funds)
 Estimate Name - Addendum No 1
 R.I. Contract No. - 2014-CT-015
 FAP Nos: STP-STAR(001)

Item No.	Item Code	Description	UM	Qty.	Pay Code	Seq. No.
110	T20.0104 Cont.	STA. 43+69 TO STA. 46+79		605.00	0021	01
		STA. 47+51 TO STA. 53+36 RT.		588.00	0021	01
		STA. 47+55 TO STA. 53+36 LT.		582.00	0021	01
Item T20.0104 Total:				7,685.00		
111	T20.0106	6 INCH YELLOW FAST - DRYING	LF			
		WATERBORNE PAVEMENT MARKING PAINT				
		AMERICA'S CUP AVENUE - MEMORIAL				
		BOULEVARD				
		STA. 29+52 TO STA. 30+13 LT.		70.00	0021	01
		STA. 30+27 TO STA. 30+57 LT.		85.00	0021	01
Item T20.0106 Total:				155.00		
112	T20.0820	FAST DRYING WATERBORNE PAVEMENT	EACH			
		ARROW - STRAIGHT, LEFT, RIGHT, OR				
		COMBINED STANDARD 20.1.0				
		AMERICA'S CUP AVENUE - MEMORIAL				
		BOULEVARD				
		STA. 12+45 RT.		1.00	0021	01
		STA. 13+19		1.00	0021	01
		STA. 13+19 LT.		1.00	0021	01
		STA. 13+86 LT.		1.00	0021	01
		STA. 14+26		1.00	0021	01
		STA. 16+20		1.00	0021	01
		STA. 16+90		1.00	0021	01
		STA. 17+58 LT.		1.00	0021	01
		STA. 17+99 RT.		1.00	0021	01
		STA. 18+45		1.00	0021	01
		STA. 18+45 LT.		1.00	0021	01
		STA. 22+00 LT.		1.00	0021	01
		STA. 23+04 LT.		1.00	0021	01
		STA. 30+35 LT.		1.00	0021	01
		STA. 33+78 LT.		2.00	0021	01

Distribution of Quantities

Project Name - RI*STARS - Aquidneck Island - America's Cup Avenue and Memorial
 Boulevard Improvements (HSIP Funds)

Estimate Name - Addendum No 1

R.I. Contract No. - 2014-CT-015

FAP Nos: STP-STAR(001)

Item No.	Item Code	Description	UM	Qty.	Pay Code	Seq. No.
112	T20.0820 Cont.	STA. 40+21 RT.		1.00	0021	01

Distribution of Quantities

Project Name - RI*STARS - Aquidneck Island - America's Cup Avenue and Memorial
Boulevard Improvements (HSIP Funds)

Estimate Name - Addendum No 1

R.I. Contract No. - 2014-CT-015

FAP Nos: STP-STAR(001)

Item No.	Item Code	Description	UM	Qty.	Pay Code	Seq. No.
112	T20.0820 Cont.	STA. 41+47 RT.		1.00	0021	01
		STA. 42+12 RT.		1.00	0021	01
		STA. 43+97 LT.		1.00	0021	01
Item T20.0820 Total:				20.00		
113	T20.0822	FAST DRYING WATERBONE PAVEMENT	EACH			
		MARKING WORD "ONLY" STANDARD 20.1.0				
		AMERICA'S CUP AVENUE - MEMORIAL BOULEVARD				
		STA. 13+60		1.00	0021	01
		STA. 14+67 LT.		1.00	0021	01
		STA. 17+58 LT.		1.00	0021	01
		STA. 17+98 RT.		1.00	0021	01
		STA. 41+10 RT.		1.00	0021	01
		STA. 41+77 RT.		1.00	0021	01
Item T20.0822 Total:				6.00		
114	T20.2006	6 INCH EPOXY RESIN PAVEMENT	LF			
		MARKINGS WHITE				
		AMERICA'S CUP AVENUE - MEMORIAL BOULEVARD				
		STA. 11+60 TO STA. 12+01 RT.		84.00	0021	01
		STA. 11+60 TO STA. 12+04 LT.		44.00	0021	01
		STA. 12+17 TO STA. 12+91 RT.		26.00	0021	01
		STA. 12+21 RT.		35.00	0021	01
		STA. 12+50 RT.		17.00	0021	01
		STA. 12+67 RT.		14.00	0021	01
		STA. 12+85 TO STA. 17+17 RT.		436.00	0021	01
		STA. 12+91 TO STA. 13+91 LT.		200.00	0021	01
		STA. 12+92 TO STA. 17+24 LT.		435.00	0021	01
		STA. 12+94 TO STA. 15+43 RT.		70.00	0021	01
		STA. 13+94 TO STA. 14+92 LT.		34.00	0021	01
		STA. 13+99 TO STA. 14+86 LT.		24.00	0021	01

Distribution of Quantities

Project Name - RI*STARS - Aquidneck Island - America's Cup Avenue and Memorial
Boulevard Improvements (HSIP Funds)

Estimate Name - Addendum No 1

R.I. Contract No. - 2014-CT-015

FAP Nos: STP-STAR(001)

Item No.	Item Code	Description	UM	Qty.	Pay Code	Seq. No.
114	T20.2006 Cont.	STA. 47+53 TO STA. 48+33 LT.		79.00	0021	01
		STA. 47+54 TO STA. 50+14 RT.		533.00	0021	01
		STA. 48+62 TO STA. 51+12 LT.		70.00	0021	01
		STA. 50+20 TO STA. 50+30 RT.		8.00	0021	01
		STA. 50+36 TO STA. 51+72 RT.		272.00	0021	01
		STA. 51+78 TO STA. 51+96 RT.		18.00	0021	01
		STA. 52+02 TO STA. 53+33 RT.		261.00	0021	01
Item T20.2006 Total:				11,495.00		
115	T20.2012	12 INCH EPOXY RESIN PAVEMENT	LF			
		MARKINGS WHITE				
		AMERICA'S CUP AVENUE - MEMORIAL BOULEVARD				
		STA. 12+01 TO STA. 12+02		26.00	0021	01
		STA. 12+33 TO STA. 12+43 LT.		10.00	0021	01
		STA. 12+39 TO STA. 12+70 RT.		31.00	0021	01
		STA. 12+91 TO STA. 12+92		36.00	0021	01
		STA. 17+17 TO STA. 17+19		38.00	0021	01
		STA. 17+41 TO STA. 17+75 LT.		35.00	0021	01
		STA. 17+77 TO STA. 18+07 RT.		30.00	0021	01
		STA. 18+17		65.00	0021	01
		STA. 18+23 TO STA. 19+16 LT.		141.00	0021	01
		STA. 20+76 RT.		28.00	0021	01
		STA. 21+39 TO 21+57 RT.		18.00	0021	01
		STA. 21+64 TO 21+86 RT.		22.00	0021	01
		STA. 21+73		35.00	0021	01
		STA. 29+09 TO STA. 29+52 LT.		95.00	0021	01
		STA. 30+12 TO STA. 30+22 LT.		59.00	0021	01
		STA. 30+45 TO STA. 30+58 LT.		17.00	0021	01
		STA. 30+45 TO STA. 30+64 RT.		33.00	0021	01
		STA. 31+10 LT.		27.00	0021	01
		STA. 32+55 RT.		27.00	0021	01
		STA. 32+95 TO STA. 33+11 RT.		16.00	0021	01

Distribution of Quantities

Project Name - RI*STARS - Aquidneck Island - America's Cup Avenue and Memorial
Boulevard Improvements (HSIP Funds)

Estimate Name - Addendum No 1

R.I. Contract No. - 2014-CT-015

FAP Nos: STP-STAR(001)

Item No.	Item Code	Description	UM	Qty.	Pay Code	Seq. No.
118	T20.2020 Cont.	STA. 18+45 LT.		1.00	0021	01
		STA. 22+00 LT.		1.00	0021	01
		STA. 23+04 LT.		1.00	0021	01
		STA. 30+35 LT.		1.00	0021	01
		STA. 33+78 LT.		2.00	0021	01
		STA. 40+21 RT.		1.00	0021	01
		STA. 41+47 RT.		1.00	0021	01
		STA. 42+12 RT.		1.00	0021	01
		STA. 43+97 LT.		1.00	0021	01
Item T20.2020 Total:				20.00		
119	T20.2022	EPOXY RESIN PAVEMENT MARKING WORD	EACH			
		"ONLY" STANDARD 20.1.0				
		AMERICA'S CUP AVENUE - MEMORIAL				
		BOULEVARD				
		STA. 13+60		1.00	0021	01
		STA. 14+67 LT.		1.00	0021	01
		STA. 17+58 LT.		1.00	0021	01
		STA. 17+98 RT.		1.00	0021	01
		STA. 41+10 RT.		1.00	0021	01
		STA. 41+77 RT.		1.00	0021	01
Item T20.2022 Total:				6.00		
120	T20.9901	EPOXY RESIN PAVEMENT MARKING -	EACH			
		SHARED LANE MARKING				
		AMERICA'S CUP AVENUE - MEMORIAL				
		BOULEVARD				
		STA. 13+63 RT.		1.00	0021	01
		STA. 13+87 LT.		1.00	0021	01
		STA. 15+65 LT.		1.00	0021	01
		STA. 15+85 RT.		1.00	0021	01
		STA. 16+55 LT.		1.00	0021	01
		STA. 16+55 RT.		1.00	0021	01

Distribution of Quantities

Project Name - RI*STARS - Aquidneck Island - America's Cup Avenue and Memorial
Boulevard Improvements (HSIP Funds)

Estimate Name - Addendum No 1

R.I. Contract No. - 2014-CT-015

FAP Nos: STP-STAR(001)

Item No.	Item Code	Description	UM	Qty.	Pay Code	Seq. No.
120	T20.9901 Cont.	STA. 18+46 LT.		1.00	0021	01

Distribution of Quantities

Project Name - RI*STARS - Aquidneck Island - America's Cup Avenue and Memorial
 Boulevard Improvements (HSIP Funds)
 Estimate Name - Addendum No 1
 R.I. Contract No. - 2014-CT-015
 FAP Nos: STP-STAR(001)

Item No.	Item Code	Description	UM	Qty.	Pay Code	Seq. No.
124	T20.9905	Cont.		40.00	0021	01
				Item T20.9905 Total:		3,643.00
125	T20.9906	FAST-DRYING WATERBORNE PAVEMENT MARKING PAINT - 12 INCH YELLOW	LF			
		AMERICA'S CUP AVENUE - MEMORIAL BOULEVARD				
		STA. 14+12 TO STA. 15+59		75.00	0021	01
		STA. 21+30 TO STA. 21+36 RT.		45.00	0021	01
				Item T20.9906 Total:		120.00
126	T20.9907	EPOXY RESIN PAVEMENT MARKING - BIKE TURN MARKING	EACH			
		AMERICA'S CUP AVENUE - MEMORIAL BOULEVARD				
		STA. 13+59 LT.		1.00	0021	01
		STA. 13+87 RT.		1.00	0021	01
		STA. 15+33 LT.		1.00	0021	01
		STA. 15+81		1.00	0021	01
		STA. 16+53		1.00	0021	01
		STA. 18+92		1.00	0021	01
		STA. 18+92 LT.		1.00	0021	01
		STA. 22+46 LT.		1.00	0021	01
		STA. 23+48 LT.		1.00	0021	01
				Item T20.9907 Total:		9.00
127	212.2000	CLEANING AND MAINTENANCE OF EROSION CONTROLS	LS			
		PROJECT WIDE				
		PROJECT WIDE		1.00	0021	01
				Item 212.2000 Total:		1.00
128	603.9901	TYPE III CONTROLLED LOW STRENGTH	CY			

Distribution of Quantities

Project Name - RI*STARS - Aquidneck Island - America's Cup Avenue and Memorial
 Boulevard Improvements (HSIP Funds)
 Estimate Name - Addendum No 1
 R.I. Contract No. - 2014-CT-015
 FAP Nos: STP-STAR(001)

Item No.	Item Code	Description	UM	Qty.	Pay Code	Seq. No.
128	603.9901	Cont. MATERIAL (CLSM)				
		AMERICA'S CUP AVENUE - MEMORIAL				
		BOULEVARD				
		PROJECT WIDE		700.00	0021	01
				Item 603.9901 Total:		700.00
129	L05.0505	EROSION CONTROL BLANKET	SY			
		AMERICA'S CUP AVENUE - MEMORIAL				
		BOULEVARD				
		PROJECT WIDE		2,250.00	0021	01
				Item L05.0505 Total:		2,250.00



STATE OF RHODE ISLAND



DEPARTMENT OF TRANSPORTATION

PLANS OF PROPOSED

RI STARS

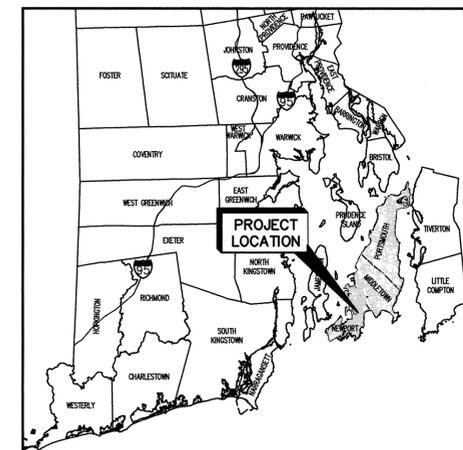
ROADWAY SAFETY IMPROVEMENTS TO AMERICA'S CUP AVENUE AND MEMORIAL BOULEVARD (HSIP FUNDS)

CITY OF NEWPORT
COUNTY OF NEWPORT

R.I. CONTRACT NO. 2014-CT-015 F.A. PROJECT NO. STP-STAR(001)

0.9 MILES

R-1	FED. ROAD DIV. NO.	STATE	FEDERAL AID PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
		RI	STP-STAR(001)		1	47



LOCATION MAP
SCALE: 1"=8 MILES

INDEX

SHEET NO.	DESCRIPTION
1	COVER SHEET
2	STANDARD PLAN SYMBOLS & STANDARD LEGEND
3	STANDARD NOTES - 1
4	STANDARD NOTES - 2
5	JOB SPECIFIC PLAN SYMBOLS, LEGEND & GENERAL NOTES
6	TYPICAL SECTIONS
7-9	MISCELLANEOUS DETAILS 1-3
10-18	GENERAL PLANS 1-9
19-27	LOCATION PLANS 1-9
28-31	LANDSCAPE PLANS 1-4
32-39	SIGNING & STRIPING PLANS 1-8
40-45	TRAFFIC SIGNAL PLANS 1-6
46-47	TRAFFIC CONTROL PLANS 1-2

PAVEMENT COMPOSITION

MICRO MILL AND OVERLAY
2" MILL DEPTH
2" BITUMINOUS SURFACE COURSE
(CLASS 12.5 HMA WITH PAY FACTORS)
LEVELING COURSE

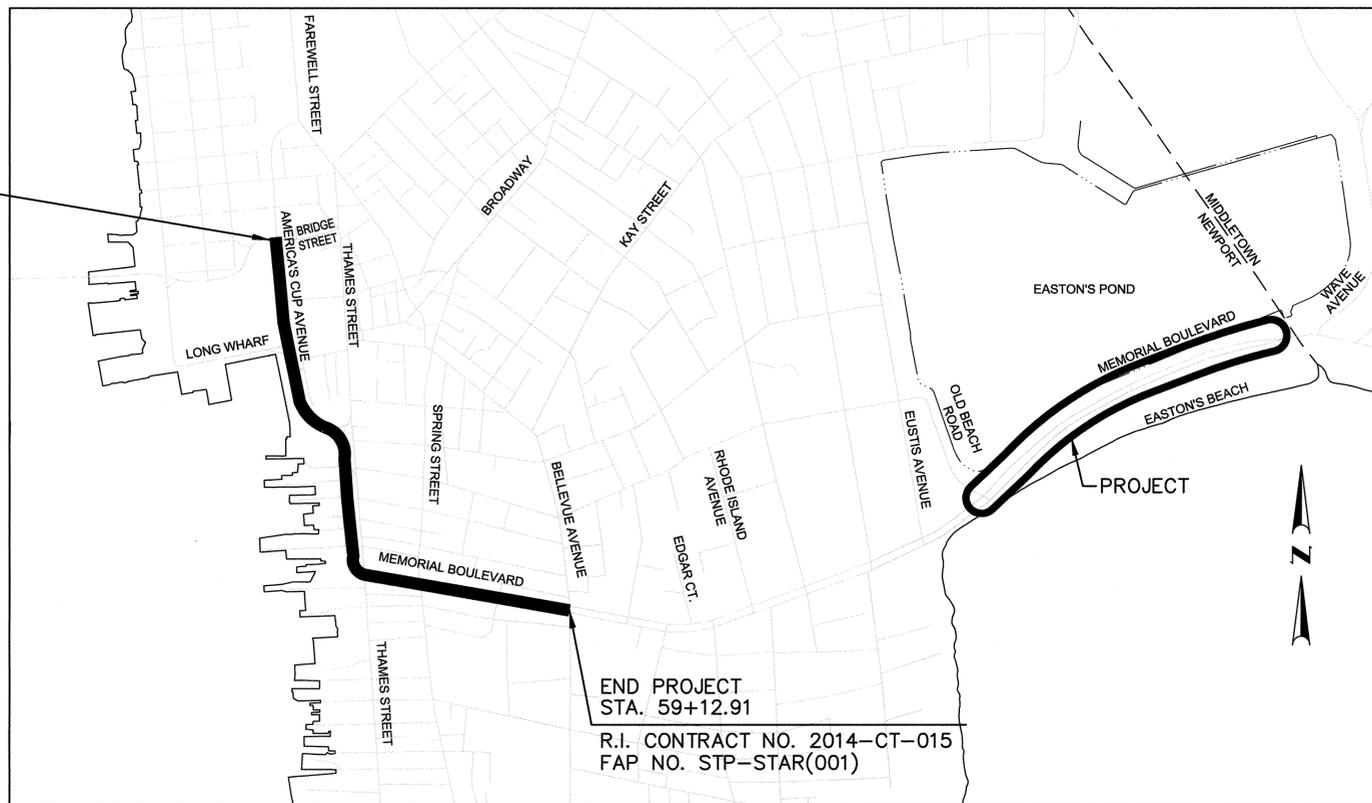
DESIGN DESIGNATION

AADT	10,500 V.P.D.
D	51%
K	4%
T	2%
DDHV	425 V.P.H.
DESIGN SPEED	25 M.P.H.

HURRICANE EVACUATION ROUTE

This project includes work on a designated Hurricane Evacuation and Diversionary Route as follows:
- MEMORIAL BLVD (ROUTE 138A)
- AMERICA'S CUP AVENUE (ROUTE 138A)

BEGIN PROJECT
STA. 11+59.84
R.I. CONTRACT NO. 2014-CT-015
FAP NO. STP-STAR(001)



END PROJECT
STA. 59+12.91
R.I. CONTRACT NO. 2014-CT-015
FAP NO. STP-STAR(001)

LAYOUT PLAN
SCALE: 1"=500'

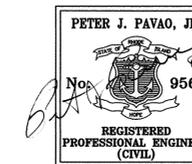
SCALES OF DRAWINGS

SCALE: 1"=20'

BASE OF LEVELS
NGVD 29

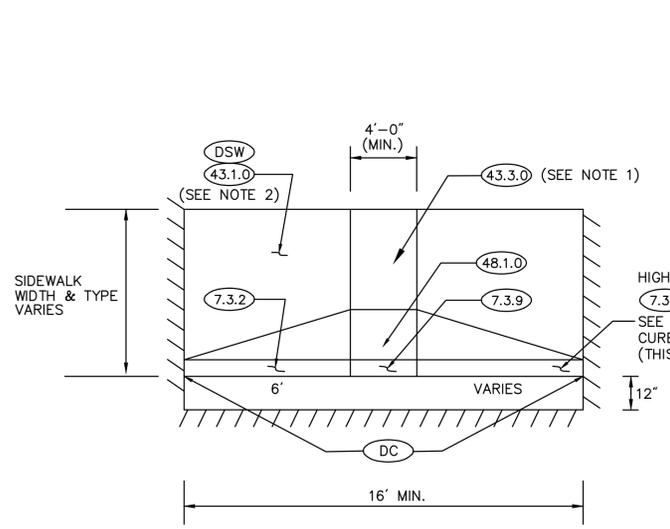


Contract Number 2014-CT-015
Number of Sheet 1
Total Sheets 47

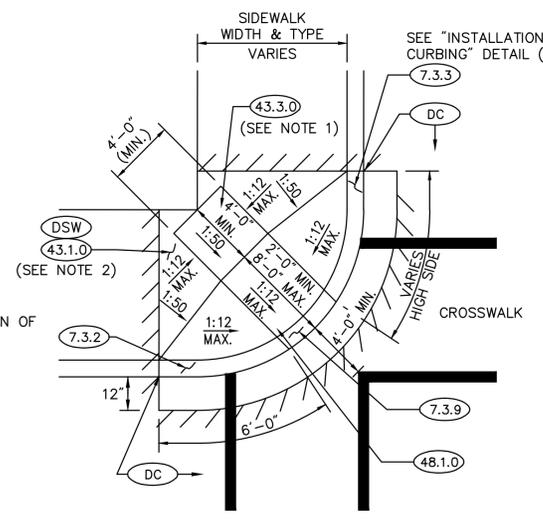


R.I. DEPARTMENT OF TRANSPORTATION	
APPROVED	
<i>[Signature]</i>	7/30/14
DEPUTY CHIEF ENGINEER	DATE
APPROVED	
<i>[Signature]</i>	7/30/14
CHIEF ENGINEER	DATE
APPROVED	
<i>[Signature]</i>	8/1/14
DIRECTOR	DATE
DEPARTMENT OF TRANSPORTATION FEDERAL HIGHWAY ADMINISTRATION	
APPROVED	
_____ DIVISION ADMINISTRATOR	_____ DATE

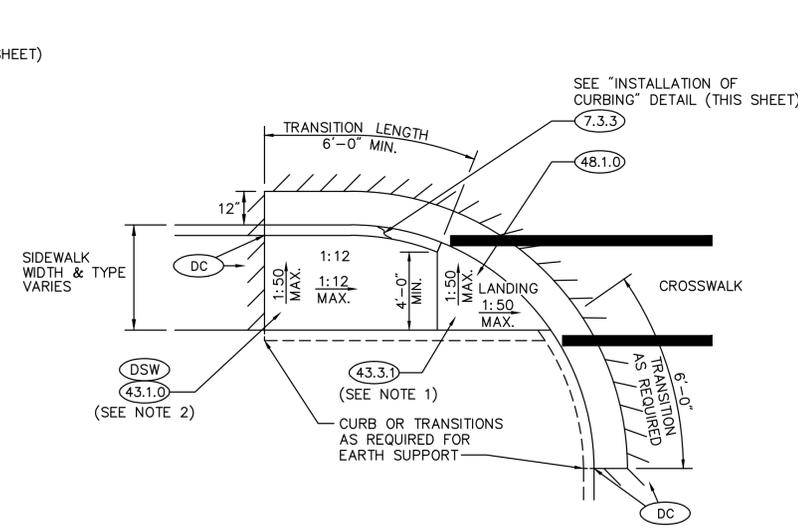
R.I. STANDARD SPECIFICATIONS AND STANDARD DETAILS
SPECIFICATIONS TO GOVERN THIS PROJECT ARE THE R.I. STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, AMENDED AUGUST 2013, WITH ALL REVISIONS, AND THE STATE AND FEDERAL SPECIAL PROVISIONS INCLUDED IN THE CONTRACT DOCUMENTS. STANDARD DETAILS FOR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



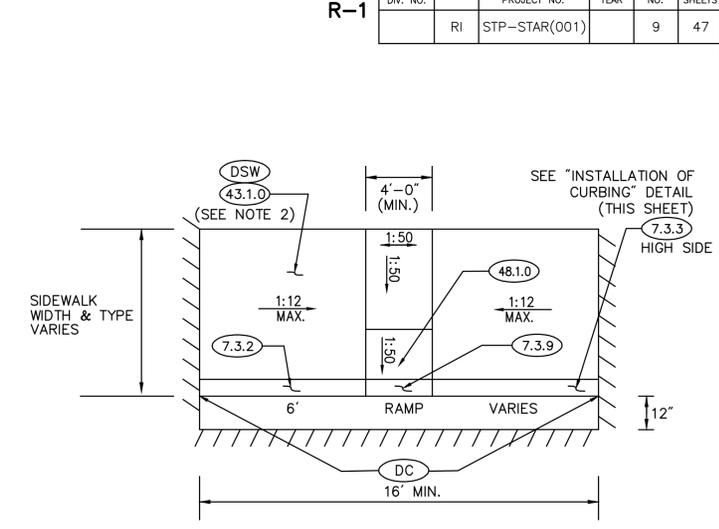
TANGENT INSTALLATION (WCR1)



RADIUS INSTALLATION (WCR2)



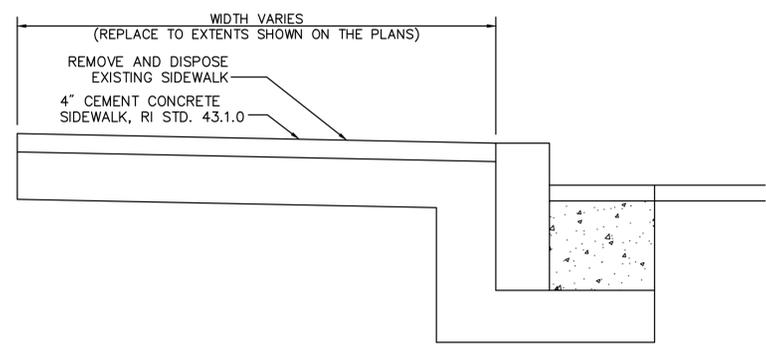
LIMITED RIGHT-OF-WAY INSTALLATION (WCR3)



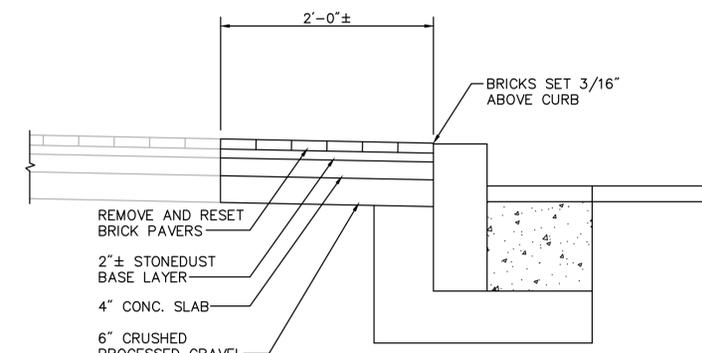
DEPRESSED SLAB INSTALLATION (WCR4)

- NOTES:**
1. WHEELCHAIR RAMP TO BE CONSTRUCTED TO RIDOT STANDARD 43.3.0 OR 43.3.1 UNLESS OTHERWISE NOTED ON THE PLANS.
 2. PROPOSED WHEELCHAIR RAMP TO BE CONSTRUCTED WITH CEMENT CONCRETE UNLESS OTHERWISE NOTED.
 3. PROPOSED WHEELCHAIR RAMP CURB TO BE GRANITE AND SHALL BE 6" IN WIDTH.
 4. PAYMENT FOR "WHEELCHAIR RAMP INSTALLATION" SHALL BE MADE UNDER THE INDIVIDUAL ITEMS FOR THE WORK PERFORMED.
 5. RAMPS SHALL BE CONSTRUCTED TO BE ADA COMPLIANT UNLESS OTHERWISE NOTED.
 6. IN AREAS OF EXISTING BRICK SIDEWALK, DSW SHALL BE REPLACED WITH SBW.
 6. WHERE FEASIBLE, SIDEWALK LANDING AREA SHALL BE A MINIMUM 5'-0" IN LENGTH TO ALLOW ADDITIONAL TOE ROOM FOR WHEELCHAIRS.

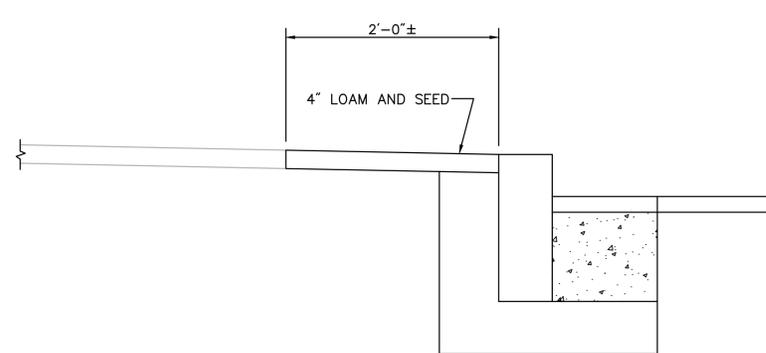
WHEELCHAIR RAMP INSTALLATION
 NOT TO SCALE



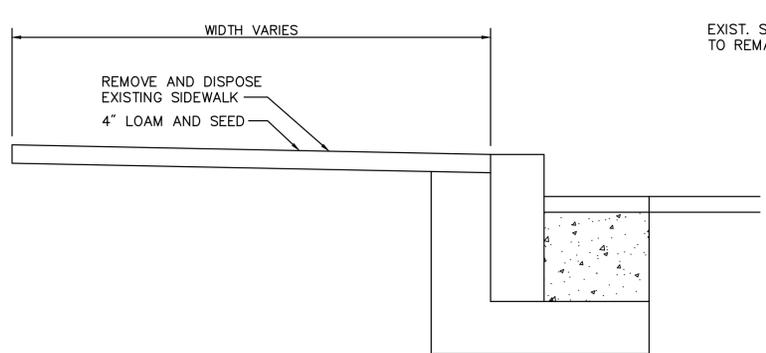
CURB REMOVAL WITH CONCRETE BACK
 NOT TO SCALE



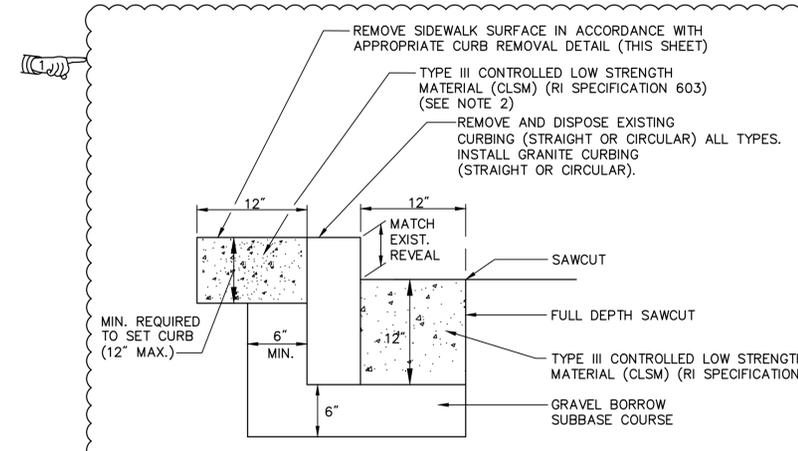
CURB REMOVAL WITH BRICK BACK
 NOT TO SCALE



CURB REMOVAL WITH GRASS BACK
 NOT TO SCALE

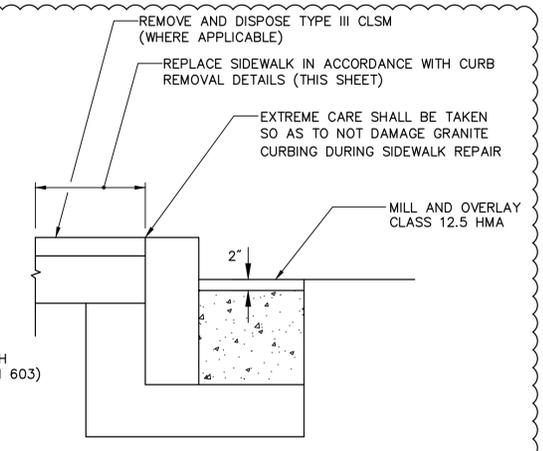


CURB REMOVAL WITH CONCRETE MEDIAN BACK
 NOT TO SCALE



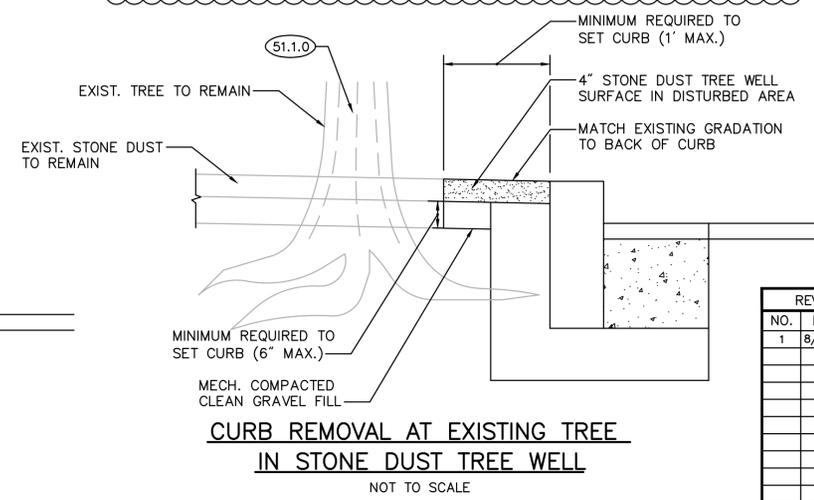
INTERIM INSTALLATION OF CURBING
 NOT TO SCALE

- NOTES:**
1. THIS WORK TO BE COMPLETED DURING COLDER TEMPERATURES IN THE MONTHS OF DECEMBER AND MARCH, ALLOWING CURB TO BE REMOVED AND REPLACED PRIOR TO THE SIDEWALKS.
 2. INSTALLATION OF TYPE III CLSM BEHIND CURB SHALL BE COMPLETED ONLY IN LOCATIONS WHERE CONCRETE OR BRICK SIDEWALK WILL BE INSTALLED DURING WARMER TEMPERATURES.



INSTALLATION OF CURBING
 NOT TO SCALE

- NOTES:**
1. EXTREME CARE SHALL BE TAKEN WHILE CONDUCTING WORK AROUND TREE WELLS TO PREVENT ANY DAMAGE TO THE TREE.
 2. ANY EXPOSED ROOTS SHALL BE CUT CLEANLY SO AS TO PREVENT DAMAGE TO THE TREE.



CURB REMOVAL AT EXISTING TREE IN STONE DUST TREE WELL
 NOT TO SCALE

REVISIONS		
NO.	DATE	BY
1	8/14/14	VHB

RHODE ISLAND
DEPARTMENT OF TRANSPORTATION

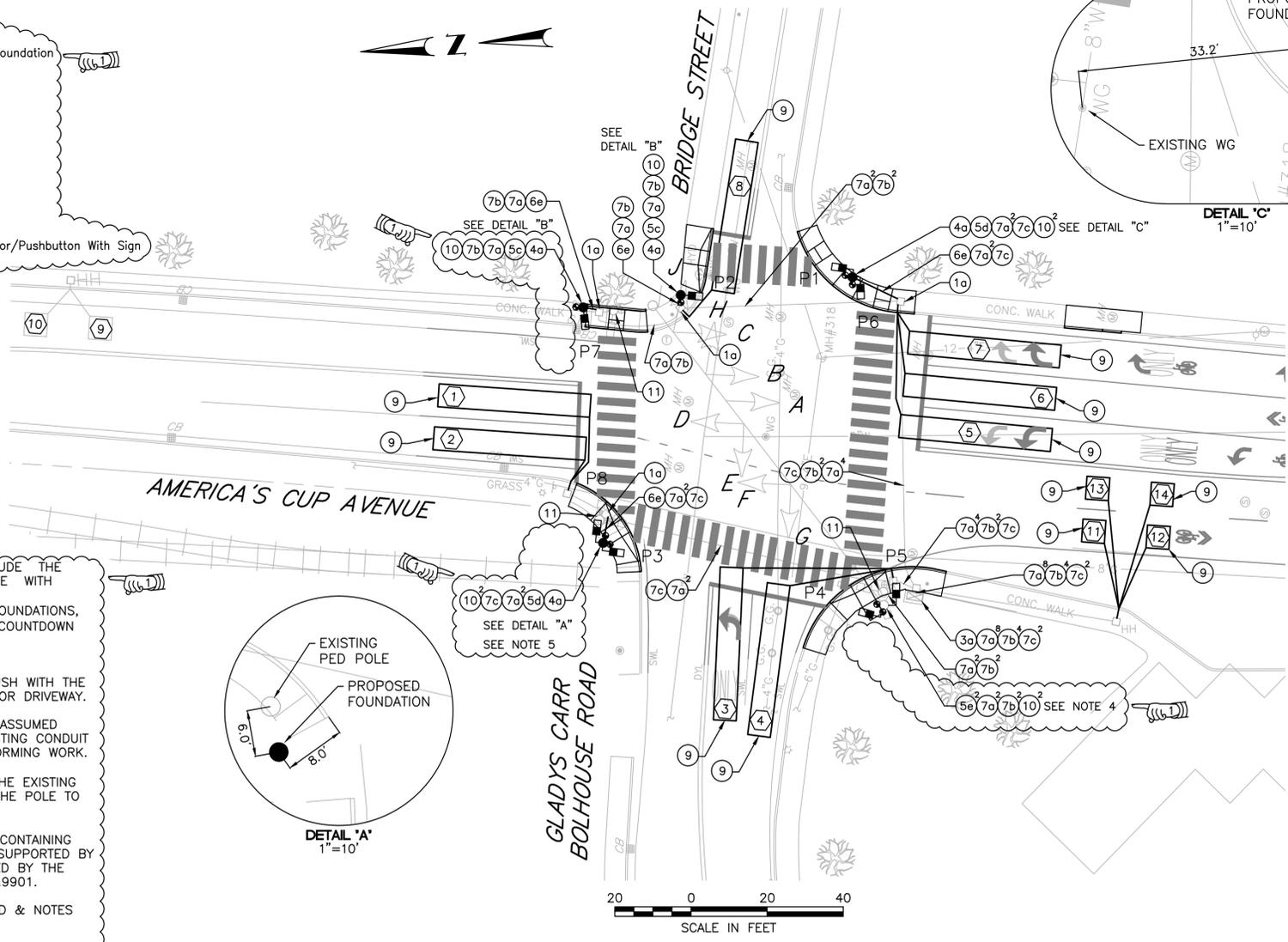
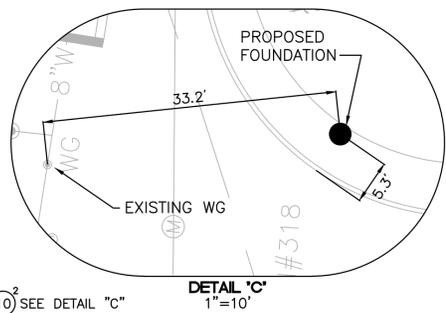
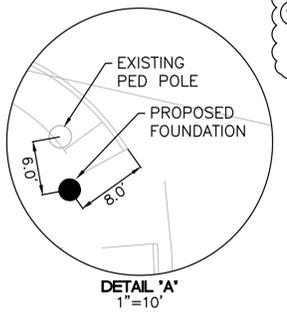
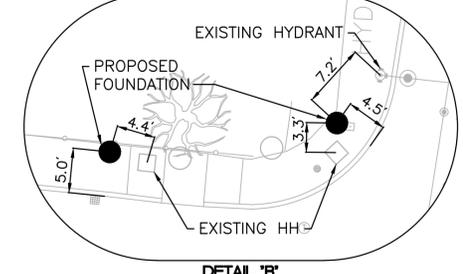
RI STARS
ROADWAY SAFETY IMPROVEMENTS TO AMERICA'S CUP AVENUE AND MEMORIAL BOULEVARD (HSIP FUNDS)
 NEWPORT, RHODE ISLAND

MISCELLANEOUS DETAILS - 3

CHECKED BY _____ DATE _____ SCALE _____



ITEM NO.	ITEM CODE	ITEM DESCRIPTION
1a	T05.9901	Break into Existing Handhole
3a	T12.9901	Modify Existing Controller
4a	T11.9901	8 Foot, 16 Flute Steel Traffic Signal Post, Base and Foundation
5c	T14.9901	1 Way Pedestal Mounted L.E.D. Pedestrian Signal Head with Countdown Timer 12 Inch
5d	T14.9902	2 Way Pedestal Mounted L.E.D. Pedestrian Signal Head with Countdown Timer 12 Inch
5e	T14.9903	1 Way Bracket Mounted L.E.D. Pedestrian Signal Head with Countdown Timer 12 Inch
6e	T06.3030	3 Inch Rigid Steel Conduit - Under Existing Pavement
7a	T04.5303	14 AWG 3 Conductor Cable
7b	T04.5305	14 AWG 5 Conductor Cable
7c	T04.5307	14 AWG 7 Conductor Cable
9	T13.1000	Traffic Detector - Loop Std. 19.6.0
10	T13.9901	Accessible Pedestrian Signal (APS) - Pedestrian Detector/Pushbutton With Sign
11	201.9901	Remove And Salvage Traffic Signal System



SIGNAL HEAD DATA		
B,C,D,E,F,G,H,J	A	P1-P8
ALL 12" LENS		

- NOTES:
 1. ALL TRAFFIC SIGNAL HEADS ARE EXISTING.
 2. ALL PEDESTRIAN SIGNAL HEADS ARE PROPOSED AND SHALL BE POLYCARBONATE, AND BE PAINTED GLOSS BLACK.

- TRAFFIC SIGNAL CONSTRUCTION NOTES**
- THE ITEM "REMOVE AND SALVAGE TRAFFIC SIGNAL SYSTEM" SHALL INCLUDE THE FOLLOWING MAJOR ITEMS AND SHALL BE ACCOMPLISHED IN ACCORDANCE WITH SPECIAL PROVISION FOR ITEM CODE 201.9901:
 (4) PEDESTRIAN SIGNAL HEADS (3) PEDESTRIAN SIGNAL POLES AND FOUNDATIONS, (4) PEDESTRIAN PUSHBUTTONS, (4) PEDESTRIAN SIGNAL HEADS WITH COUNTDOWN TIMERS, MISCELLANEOUS CABLE, WIRING, CONDUIT ETC.
 - FINISHED GRADE OF TRAFFIC SIGNAL POLE FOUNDATIONS SHALL BE FLUSH WITH THE EXISTING OR PROPOSED FINISHED GRADE OF THE ADJACENT SIDEWALK OR DRIVEWAY.
 - THE EXISTING CONDUIT NETWORK SHOWN ON THIS PLAN IS BASED ON ASSUMED LOCATIONS AND SIZES. THE CONTRACTOR SHALL FIELD VERIFY THE EXISTING CONDUIT LOCATIONS AND SIZES FOR ACCURACY AND ADEQUACY PRIOR TO PERFORMING WORK.
 - PROPOSED CABLING FOR "P4/P5" SHALL BE INSTALLED INTERNAL TO THE EXISTING SPAN POLE AND SHALL UTILIZE THE EXISTING EXTERNAL CONDUIT ON THE POLE TO CONNECT BACK TO THE CONTROLLER CABINET.
 - PROPOSED PEDESTAL POLE "P3/P8" IS TO BE INSTALLED IN AN AREA CONTAINING RAILROAD BALLAST STONE. IF REQUIRED, THE FOUNDATION SHALL BE SUPPORTED BY USING FLOWABLE FILL OR OTHER MEANS AS APPROVED AND DETERMINED BY THE ENGINEER. THIS WORK SHALL BE CONSIDERED INCIDENTAL TO ITEM T11.9901.
 - SEE STANDARD NOTES PLAN AND JOB SPECIFIC PLAN SYMBOLS, LEGEND & NOTES PLAN FOR ADDITIONAL INFORMATION.
 - PROPOSED PEDESTRIAN PUSHBUTTON ASSEMBLES AND SIGNAL POLES SHALL BE PAINTED GLOSS BLACK.

DETECTOR DATA						
DETECTOR NO.	NO. SECTION/ SIZE	RELAY NUMBER	SLOT	DELAY (SEC)	CALL PHASE	REMARKS
1	1-6'x40'	1	2	3	ø2	PROPOSED
2	1-6'x40'	1	2	3	ø2	PROPOSED
3	1-6'x40'	1	2	3	ø4	PROPOSED
4	1-6'x40'	1	2	5	ø4	PROPOSED
5	1-6'x40'	2	4	3	ø1	PROPOSED
6	1-6'x40'	2	4	1	ø6	PROPOSED
7	1-6'x40'	2	4	1	ø6	PROPOSED
8	1-6'x40'	2	4	5	ø4	PROPOSED
9	1-6'x6'	3	6	-	SYSTEM DETECTOR	PROPOSED
10	1-6'x6'	3	6	-	SYSTEM DETECTOR	PROPOSED
11	1-6'x6'	4	8	-	SYSTEM DETECTOR	PROPOSED
12	1-6'x6'	4	8	-	SYSTEM DETECTOR	PROPOSED
13	1-6'x6'	4	8	-	SYSTEM DETECTOR	PROPOSED
14	1-6'x6'	4	8	-	SYSTEM DETECTOR	PROPOSED

- NOTES:
 1. SPLICE PROPOSED LOOP DETECTORS IN ADJACENT HANDHOLE AND UTILIZE EXISTING CABLING TO CONTROLLER CABINET UNLESS OTHERWISE SHOWN ON THE PLANS.

COORDINATION DATA
 (ALL ENTRIES IN SECONDS)

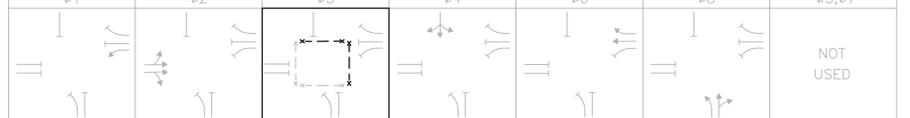
	PLAN 1	PLAN 2	PLAN 3	PLAN 4
CYCLE LENGTH	90	90	90	90
OFFSET	30	87	81	22
SPLIT ø1	17	15	16	18
SPLIT ø2	27	22	26	23
SPLIT ø3	29	29	29	29
SPLIT ø4	17	24	19	20
SPLIT ø6	44	37	42	41
SPLIT ø8	17	24	19	20
COORDINATED PHASE	ø2&ø6	ø2&ø6	ø2&ø6	ø2&ø6

PLAN 1 - MON-FRI 7:30AM-10:00AM, SUMMER MON-FRI 7:30AM-10:00AM
 PLAN 2 - MON-FRI 3:30PM-6:30PM, SAT-SUN 10:00AM-6:00PM,
 PLAN 3 - SUMMER MON-FRI 3:30PM-6:30PM,
 SUMMER SAT-SUN 10:00AM-6:00PM
 PLAN 4 - MON-FRI 10:00AM-3:30PM, SUMMER MON-FRI 10:00AM-3:30PM
 FREE - ALL OTHER TIME PERIODS

- NOTES:
 1. ø2&ø6 "CALL NON ACTUATED" DURING COORDINATION.
 2. OFFSET: BEGINNING OF ø2 GREEN.
 3. PLAN FORCE OFF/FLOATING FORCE OFF SHALL BE IN EFFECT.
 4. SPLIT TIMES EQUAL GREEN PLUS CLEARANCES.
 5. INHIBIT MAX. TERMINATION SHALL BE IN EFFECT DURING COORDINATION.

SEQUENCE AND TIMING DIAGRAM																		FLASHING OPERATION
APPROACH	DIRECTION	HOUSING	ø1		ø2		ø3		ø4		ø6		ø8					
MINIMUM INTERVAL			8		8		-		8		8		8					
VEHICLE EXTENSION			2.4		2.4				2.4		2.4		2.4					
MAXIMUM 1			13		18				15		36		15					
MAXIMUM 2			13		18				15		36		15					
YELLOW CLEARANCE			3		3		3		3		3		3					
RED CLEARANCE				2		2				2		2			2			
PED. WALK/CHANGE							7/18											
AMERICAS CUP AVE	NB-LT	A	G	Y	R	R	R	R	R	R	R	R	R	R	R	R	F	
AMERICAS CUP AVE	NB	B,C	R	R	R	R	R	R	R	R	R	R	G	Y	R	R	F	
AMERICAS CUP AVE	SB	D,E	R	R	R	G	Y	R	R	R	R	R	R	R	R	R	F	
GLADYS CARR RD	EB	F,G	R	R	R	R	R	R	R	R	R	R	R	R	G	Y	R	
BRIDGE ST	WB	H,J	R	R	R	R	R	R	R	R	G	Y	R	R	R	R	R	
PEDESTRIAN X-ING	N-S	P1-P4	DW	DW	DARK													
PEDESTRIAN X-ING	E-W	P5-P8	DW	DW	DARK													
DETECTOR			NON-LOCK		NON-LOCK		NON-LOCK		NON-LOCK		NON-LOCK		NON-LOCK		NON-LOCK			
RECALL			OFF		MIN		OFF		OFF		MIN		OFF		OFF			

- SEQUENCE AND TIMING NOTES:**
- FLASHING OPERATION PER M.U.T.C.D.
 - MAXIMUM 1 = NORMAL OPERATION
 - MAXIMUM 2 = NOT USED
 - PED. W/FDW UPON PUSHBUTTON ACTUATION ONLY
 - ø4 & ø8 = DUAL ENTRY



TRAFFIC SIGNAL NO. 299

REVISIONS
 NO. DATE BY
 1 8/14/14 VHB

RHODE ISLAND
 DEPARTMENT OF TRANSPORTATION

RI STARS
 ROADWAY SAFETY IMPROVEMENTS TO AMERICA'S CUP AVENUE AND MEMORIAL BOULEVARD (HSIP FUNDS) NEWPORT, RHODE ISLAND

TRAFFIC SIGNAL PLAN - 1
 AMERICA'S CUP AVE AT BRIDGE ST

CHECKED BY _____ DATE _____ SCALE _____

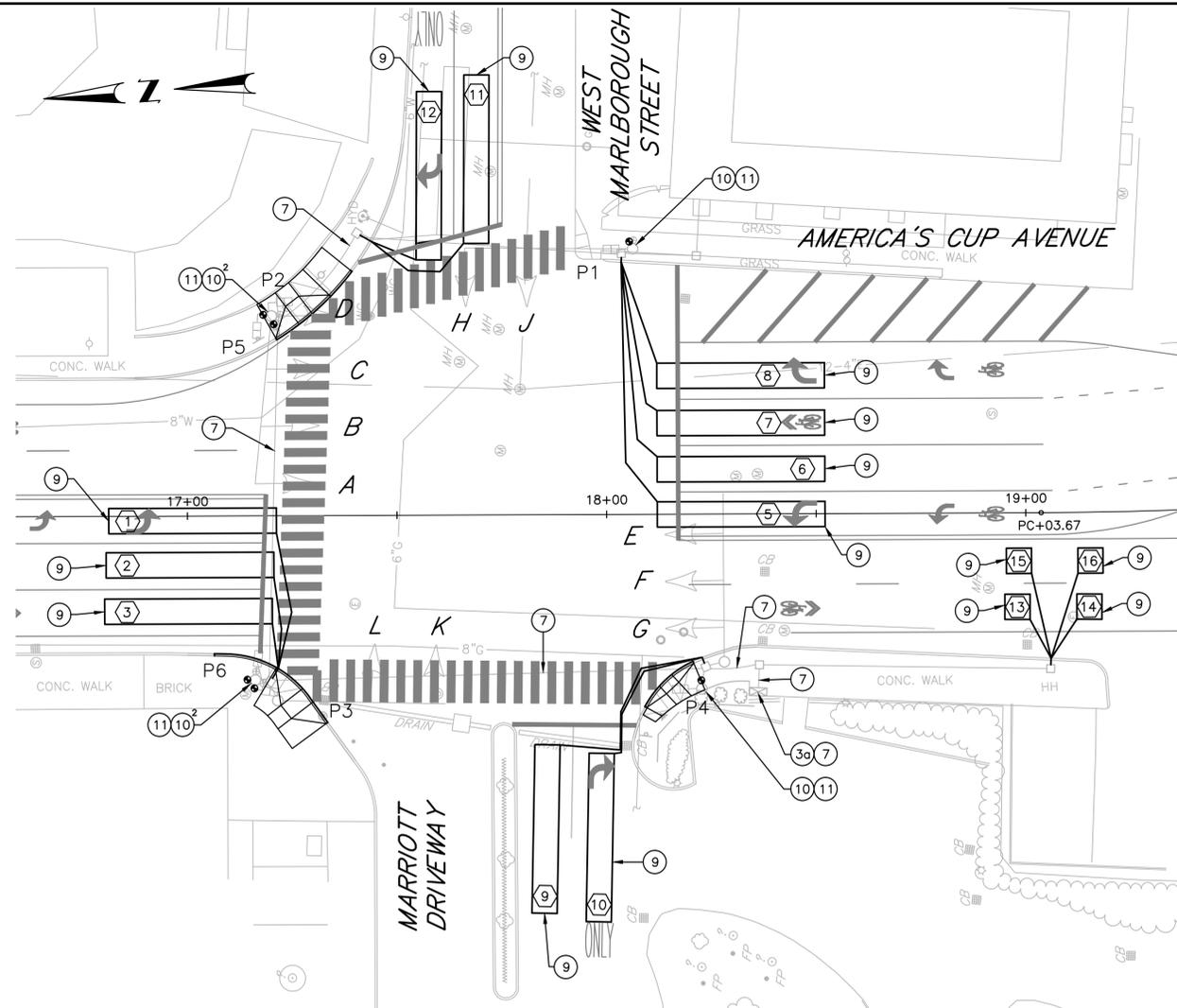
ITEM NO.	ITEM CODE	ITEM DESCRIPTION
3a	T12.9901	Modify Existing Controller
7	T04.5302	14 AWG 2 Conductor Twisted Shielded Cable
9	T13.1000	Traffic Detector - Loop Std. 19.6.0
10	T13.9901	Accessible Pedestrian Signal (APS) - Pedestrian Detector/Pushbutton With Sign
11	201.9901	Remove And Salvage Traffic Signal System

R-1

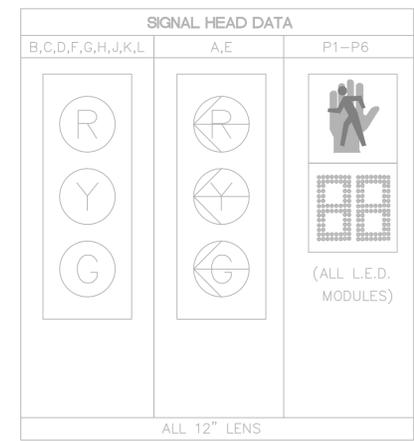
FED. ROAD DIV. NO.	STATE	FEDERAL AID PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
	RI	STP-STAR(001)		41	47

DETECTOR DATA						
DETECTOR NO.	NO. SECTION/ SIZE	RELAY NUMBER	SLOT	DELAY (SEC)	CALL PHASE	REMARKS
1	1-6'x40'	1	2	3	ø5	PROPOSED
2	1-6'x40'	1	2	3	ø2	PROPOSED
3	1-6'x40'	1	2	3	ø2	PROPOSED
5	1-6'x40'	2	4	3	ø1	PROPOSED
6	1-6'x40'	2	4	3	ø6	PROPOSED
7	1-6'x40'	2	4	3	ø6	PROPOSED
8	1-6'x40'	2	4	5	ø6	PROPOSED
9	1-6'x40'	3	6	3	ø4	PROPOSED
10	1-6'x40'	3	6	5	ø4	PROPOSED
11	1-6'x40'	3	6	3	ø8	PROPOSED
12	1-6'x40'	3	6	5	ø8	PROPOSED
13	1-6'x6'	4	8	-	SYSTEM DETECTOR	PROPOSED
14	1-6'x6'	4	8	-	SYSTEM DETECTOR	PROPOSED
15	1-6'x6'	4	8	-	SYSTEM DETECTOR	PROPOSED
16	1-6'x6'	4	8	-	SYSTEM DETECTOR	PROPOSED

- NOTES:**
- SPLICE PROPOSED LOOP DETECTORS IN ADJACENT HANDHOLE AND UTILIZE EXISTING CABLING TO CONTROLLER CABINET UNLESS OTHERWISE SHOWN ON THE PLANS.
 - THE CONTRACTOR SHALL REWIRE THE EXISTING LOOP DETECTORS IN THE CABINET TO AGREE WITH THE PROPOSED DETECTOR DATA CHART ON THIS PLAN. THE COST FOR REWIRING, INCLUDING AN UPDATED LOOP ID STICKER AND INTERSECTION GRAPHIC TO BE INSTALLED IN THE CABINET SHALL BE CONSIDERED INCIDENTAL TO ITEM T12.9901.



COORDINATION DATA
(ALL ENTRIES IN SECONDS)



- NOTES:**
- ALL TRAFFIC SIGNAL HEADS ARE EXISTING.
 - ALL PEDESTRIAN SIGNAL HEADS ARE EXISTING.

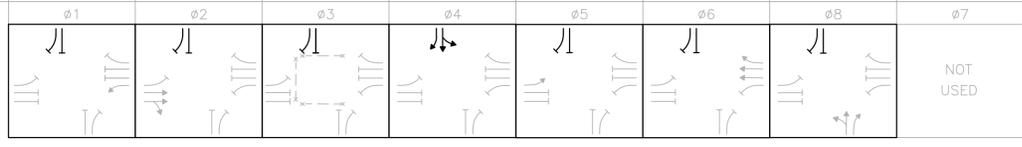
- TRAFFIC SIGNAL CONSTRUCTION NOTES:**
- THE EXISTING CONDUIT NETWORK SHOWN ON THIS PLAN IS BASED ON ASSUMED LOCATIONS AND SIZES. THE CONTRACTOR SHALL FIELD VERIFY THE EXISTING CONDUIT LOCATIONS AND SIZES FOR ACCURACY AND ADEQUACY PRIOR TO PERFORMING WORK.
 - SEE STANDARD NOTES PLAN AND JOB SPECIFIC PLAN SYMBOLS, LEGEND & NOTES PLAN FOR ADDITIONAL INFORMATION.
 - PROPOSED PEDESTRIAN PUSHBUTTON ASSEMBLIES SHALL BE PAINTED GLOSS BLACK.

SEQUENCE AND TIMING DIAGRAM																			
APPROACH	DIRECTION	HOUSING	ø1	ø2	ø3	ø4	ø5	ø6	ø8	FLASHING OPERATION									
MINIMUM INTERVAL			5																
VEHICLE EXTENSION			2.4	2.4		2.4	2.4	2.4	2.4										
MAXIMUM 1			7	16		16	7	16	16										
MAXIMUM 2			7	16		16	7	16	16										
YELLOW CLEARANCE			3	3	3	3	3	3	3										
RED CLEARANCE			2	2		3	3	2.5	3										
PED. WALK/CHANGE					8/23														
AMERICAS CUP AVE	NB-LT	A	G	Y	R	R	R	R	R	F									
AMERICAS CUP AVE	NB	B,C,D	R	R	R	R	R	R	R	F									
AMERICAS CUP AVE	SB-LT	E	R	R	R	R	R	R	R	F									
AMERICAS CUP AVE	SB	F,G	R	R	R	R	R	R	R	F									
MARRIOTT DRIVEWAY	EB	H,J	R	R	R	R	R	R	R	FR									
W. MARLBOROUGH ST	WB	K,L	R	R	R	R	R	R	R	FR									
PEDESTRIAN X-ING	N-S	P1-P4	DW	DW	DW	DW	DW	DW	DW	DARK									
PEDESTRIAN X-ING	E-W	P5-P6	DW	DW	DW	DW	DW	DW	DW	DARK									

	PLAN 1	PLAN 2	PLAN 3	PLAN 4
CYCLE LENGTH	90	90	90	90
OFFSET	50	58	58	57
SPLIT ø1	13	12	11	12
SPLIT ø2	22	25	26	21
SPLIT ø3	35	35	35	35
SPLIT ø4	20	18	18	22
SPLIT ø5	14	15	14	13
SPLIT ø6	21	22	23	20
SPLIT ø8	20	18	18	22
COORDINATED PHASE	ø2&ø6	ø2&ø6	ø2&ø6	ø2&ø6

- NOTES:**
- ø2&ø6 "CALL NON ACTUATED" DURING COORDINATION.
 - OFFSET: BEGINNING OF ø2 GREEN.
 - PLAN FORCE OFF/FLOATING FORCE OFF SHALL BE IN EFFECT.
 - SPLIT TIMES EQUAL GREEN PLUS CLEARANCES.
 - INHIBIT MAX. TERMINATION SHALL BE IN EFFECT DURING COORDINATION.

- SEQUENCE AND TIMING NOTES:**
- FLASHING OPERATION PER M.U.T.C.D.
 - MAXIMUM 1 = NORMAL OPERATION
 - MAXIMUM 2 = NOT USED
 - PED. W/FDW UPON PUSHBUTTON ACTUATION ONLY
 - ø4 & ø8 = DUAL ENTRY



ADDENDUM NO. 1



TRAFFIC SIGNAL NO. 311

RHODE ISLAND
DEPARTMENT OF TRANSPORTATION

RI STARS
ROADWAY SAFETY IMPROVEMENTS TO
AMERICA'S CUP AVENUE AND
MEMORIAL BOULEVARD (HSIP FUNDS)
NEWPORT, RHODE ISLAND

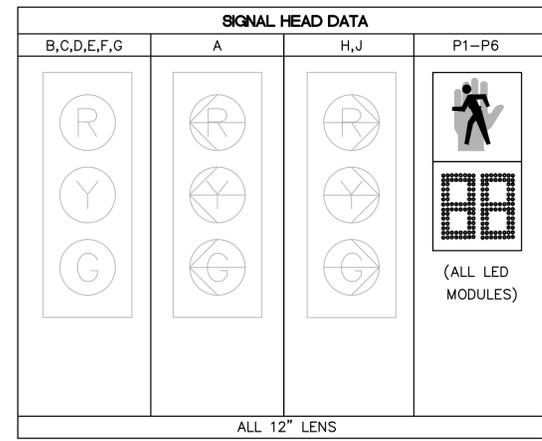
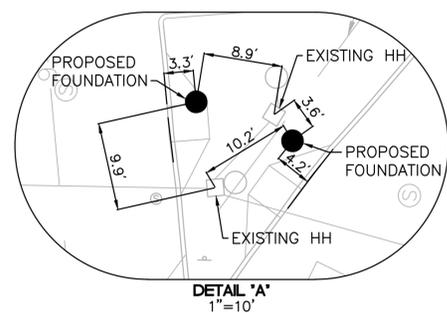
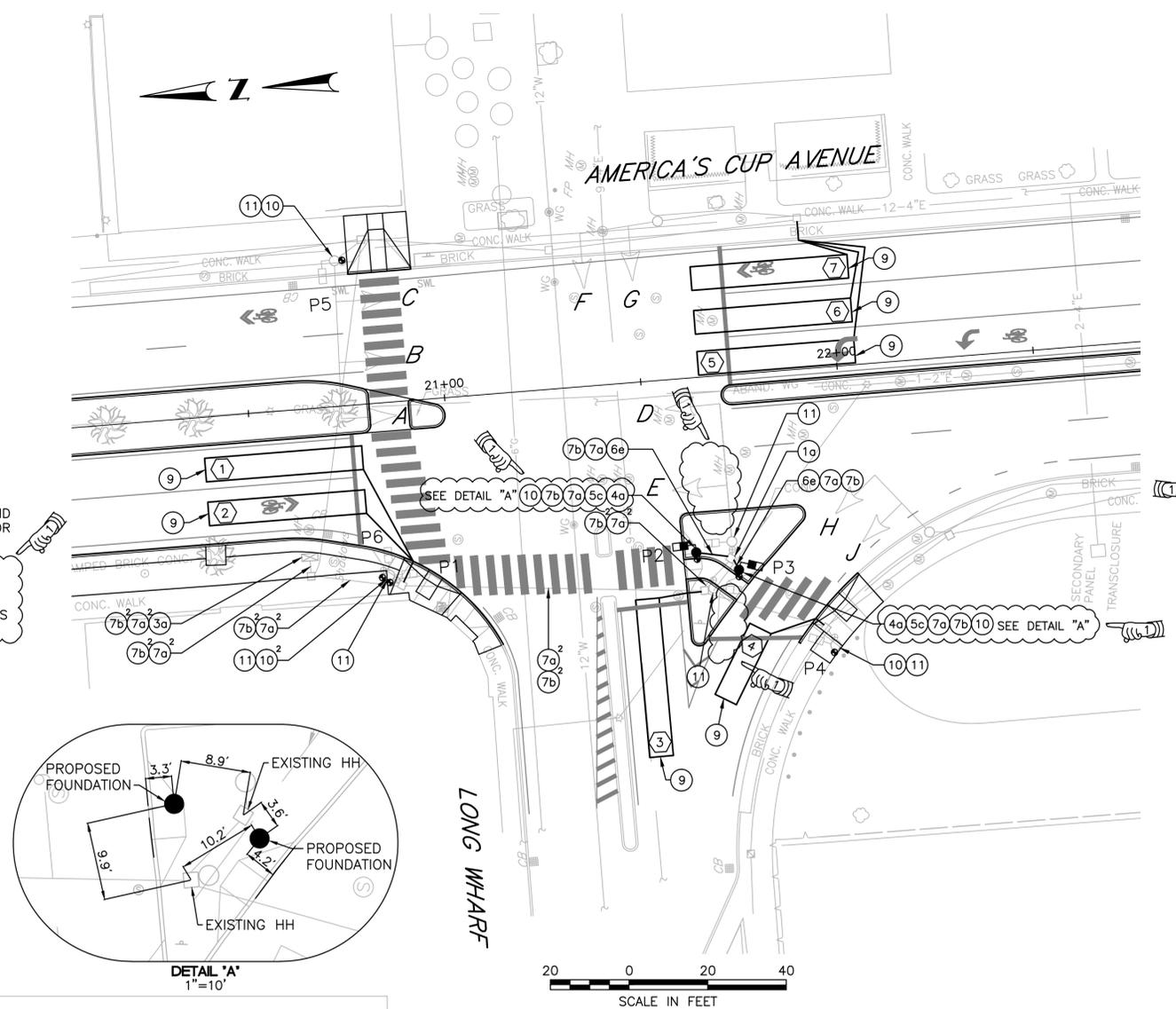
TRAFFIC SIGNAL PLAN - 2
AMERICA'S CUP AVE AT WEST MARLBOROUGH ST

CHECKED BY _____ DATE _____ SCALE _____

ITEM NO.	ITEM CODE	ITEM DESCRIPTION
1a	T05.9901	Break Into Existing Handhole
3a	T12.9901	Modify Existing Controller
4a	T11.9901	8 Foot, 16 Flute Steel Traffic Signal Post, Base and Foundation
5c	T14.9901	1 Way Pedestal Mounted L.E.D. Pedestrian Signal Head with Countdown Timer 12 Inch
6e	T06.3030	3 Inch Rigid Steel Conduit - Under Existing Pavement
7a	T04.5303	14 AWG 3 Conductor Cable
7b	T04.5305	14 AWG 5 Conductor Cable
9	T13.1000	Traffic Detector - Loop Std. 19.6.0
10	T13.9901	Accessible Pedestrian Signal (APS) - Pedestrian Detector/Pushbutton With Sign
11	201.9901	Remove And Salvage Traffic Signal System

TRAFFIC SIGNAL CONSTRUCTION NOTES:

- THE ITEM "REMOVE AND SALVAGE TRAFFIC SIGNAL SYSTEM" SHALL INCLUDE THE FOLLOWING MAJOR ITEMS AND SHALL BE ACCOMPLISHED IN ACCORDANCE WITH SPECIAL PROVISION FOR ITEM CODE 201.9901:
 (2) PEDESTRIAN SIGNAL POLES AND FOUNDATIONS, (2) PEDESTRIAN SIGNAL HEADS, (6) PEDESTRIAN PUSHBUTTONS, MISCELLANEOUS CABLE, WIRING, HANDHOLES, CONDUIT, ETC.
- FINISHED GRADE OF TRAFFIC SIGNAL POLE FOUNDATIONS SHALL BE FLUSH WITH THE EXISTING OR PROPOSED FINISHED GRADE OF THE ADJACENT SIDEWALK OR DRIVEWAY.
- THE EXISTING CONDUIT NETWORK SHOWN ON THIS PLAN IS BASED ON ASSUMED LOCATIONS AND SIZES. THE CONTRACTOR SHALL FIELD VERIFY THE EXISTING CONDUIT LOCATIONS AND SIZES FOR ACCURACY AND ADEQUACY PRIOR TO PERFORMING WORK.
- SEE STANDARD NOTES PLAN AND JOB SPECIFIC PLAN SYMBOLS, LEGEND & NOTES PLAN FOR ADDITIONAL INFORMATION.
- PROPOSED PEDESTRIAN PUSHBUTTON ASSEMBLIES AND SIGNAL POLES SHALL BE PAINTED GLOSS BLACK.



- NOTES:**
- ALL TRAFFIC SIGNAL HEADS ARE EXISTING.
 - PEDESTRIAN SIGNAL HEADS P2 AND P3 ARE PROPOSED AND SHALL BE POLYCARBONATE, AND BE PAINTED GLOSS BLACK. ALL REMAINING PEDESTRIAN SIGNAL HEADS ARE EXISTING.

DETECTOR DATA						
DETECTOR NO.	NO. SECTION/ SIZE	RELAY NUMBER	SLOT	DELAY (SEC)	CALL PHASE	REMARKS
1	1-6'x40'	1	2	3	ø2	PROPOSED
2	1-6'x40'	1	2	3	ø2	PROPOSED
3	1-6'x40'	1	2	3	ø4	PROPOSED
4	1-6'x20'	1	2	5	ø4	EXISTING
5	1-6'x40'	2	4	3	ø1	PROPOSED
6	1-6'x40'	2	4	3	ø6	PROPOSED
7	1-6'x40'	2	4	3	ø6	PROPOSED
8	1-6'x10'	2	4	-	SYSTEM DETECTOR	EXISTING
9	1-6'x6'	3	6	-	SYSTEM DETECTOR	EXISTING
10	1-6'x6'	3	6	-	SYSTEM DETECTOR	EXISTING
11	1-6'x6'	3	6	-	SYSTEM DETECTOR	EXISTING
12	1-6'x6'	3	6	-	SYSTEM DETECTOR	EXISTING
13	1-6'x6'	4	8	-	SYSTEM DETECTOR	PROPOSED
14	1-6'x6'	4	8	-	SYSTEM DETECTOR	PROPOSED
15	1-6'x6'	4	8	-	SYSTEM DETECTOR	PROPOSED
16	1-6'x6'	4	8	-	SYSTEM DETECTOR	PROPOSED

- NOTES:**
- SPLICE PROPOSED LOOP DETECTORS IN ADJACENT HANDHOLE AND UTILIZE EXISTING CABLING TO CONTROLLER CABINET UNLESS OTHERWISE SHOWN ON THE PLANS.
 - SEE SIGNING & STRIPING PLANS FOR LOCATIONS OF SYSTEM DETECTORS OUTSIDE OF LIMITS OF TRAFFIC SIGNAL PLAN.

SEQUENCE AND TIMING DIAGRAM																
APPROACH	DIRECTION	HOUSING	ø1	ø2	ø3	ø4	ø6									FLASHING OPERATION
MINIMUM INTERVAL			8	8	-	6	8									
VEHICLE EXTENSION			2.4	2.4	-	2.4	2.4									
MAXIMUM 1			13	24	-	7	40									
MAXIMUM 2			13	24	-	7	40									
YELLOW CLEARANCE			3	3	3	3	3									
RED CLEARANCE			1.5	1.5		3	2.5									
PED. WALK/CHANGE					8/20											

COORDINATION DATA (ALL ENTRIES IN SECONDS)															
	PLAN 1	PLAN 2	PLAN 3	PLAN 4											
CYCLE LENGTH	90	90	90	90											
OFFSET	56	76	62	50											
SPLIT ø1	16	16	15	17											
SPLIT ø2	27	27	28	28											
SPLIT ø3	32	32	32	32											
SPLIT ø4	15	15	15	13											
SPLIT ø6	43	43	43	45											
COORDINATED PHASE	ø2&ø6	ø2&ø6	ø2&ø6	ø2&ø6											

SEQUENCE AND TIMING NOTES:															
1. FLASHING OPERATION PER M.U.T.C.D.															
2. MAXIMUM 1 = NORMAL OPERATION															
3. MAXIMUM 2 = NOT USED															
4. PED. W/FDW UPON PUSHBUTTON ACTUATION ONLY															
5. OL = OVERLAP															

TRAFFIC SIGNAL NO. 312				
REVISIONS				
NO.	DATE	BY		
1	8/14/14	VHB		

- NOTES:**
- ø2&ø6 "CALL NON ACTUATED" DURING COORDINATION.
 - OFFSET: BEGINNING OF ø2 GREEN.
 - PLAN FORCE OFF/FLOATING FORCE OFF SHALL BE IN EFFECT.
 - SPLIT TIMES EQUAL GREEN PLUS CLEARANCES.
 - INHIBIT MAX. TERMINATION SHALL BE IN EFFECT DURING COORDINATION.



RHODE ISLAND
DEPARTMENT OF TRANSPORTATION

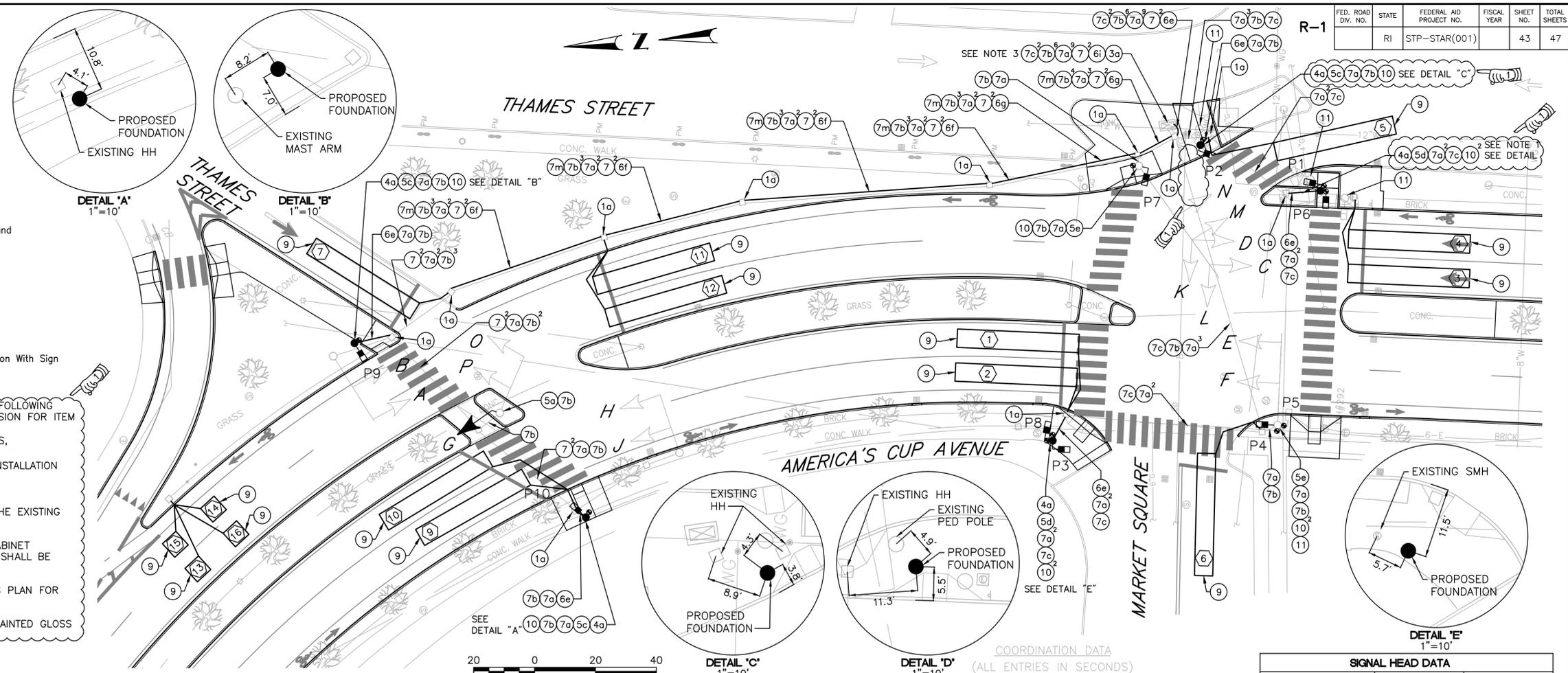
RI STARS
ROADWAY SAFETY IMPROVEMENTS TO AMERICA'S CUP AVENUE AND MEMORIAL BOULEVARD (HSIP FUNDS) NEWPORT, RHODE ISLAND

TRAFFIC SIGNAL PLAN - 3
 AMERICA'S CUP AVE AT LONG WHARF

CHECKED BY _____ DATE _____ SCALE _____

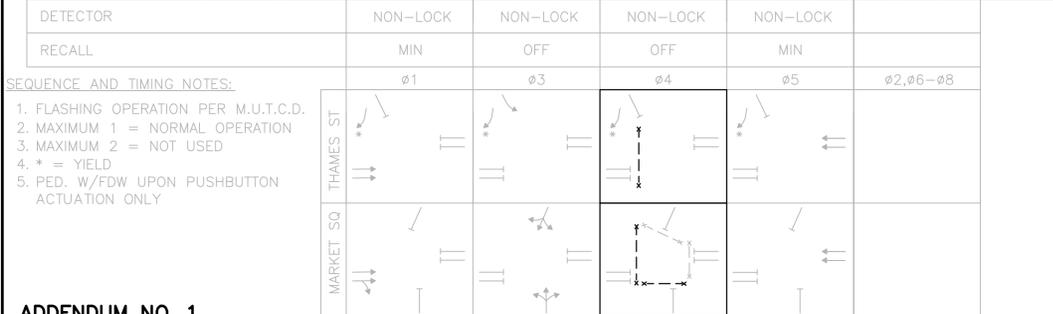
ITEM NO.	ITEM CODE	ITEM DESCRIPTION
1	T05.0100	Precast Type A Handhole Standard 18.2.0
1a	T05.9901	Break into Existing Handhole
3a	T12.9901	Modify Existing Controller
4a	T11.9901	8 Foot, 16 Flute Steel Traffic Signal Post, Base and Foundation
5a	T14.3613	1 Way 3 Section Bracket Mounted Signal Head 12 Inch
5c	T14.9901	1 Way Pedestal Mounted L.E.D. Pedestrian Signal Head with Countdown Timer 12 Inch
5d	T14.9902	2 Way Pedestal Mounted L.E.D. Pedestrian Signal Head with Countdown Timer 12 Inch
5e	T14.9903	1 Way Bracket Mounted L.E.D. Pedestrian Signal Head with Countdown Timer 12 Inch
6d	T06.1030	3 Inch Rigid Steel Conduit - Underground
6e	T06.3030	3 Inch Rigid Steel Conduit - Under Existing Pavement
6f	T06.5130	3 Inch Schedule 40 Polyvinyl Chloride Plastic Conduit - Underground
6g	T06.5330	3 Inch Schedule 40 Polyvinyl Chloride Plastic Conduit - Under Existing Pavement
6i	T06.2030	3 Inch Rigid Steel Conduit - Overhead
7	T04.5302	14 AWG 2 Conductor Twisted Shielded Cable
7a	T04.5303	14 AWG 3 Conductor Cable
7b	T04.5305	14 AWG 5 Conductor Cable
7c	T04.5307	14 AWG 7 Conductor Cable
7m	T04.5001	6 AWG Single Conductor Cable 600v Insulation
9	T13.1000	Traffic Detector - Loop Std. 19.6.0
10	T13.9901	Accessible Pedestrian Signal (APS) - Pedestrian Detector/Pushbutton With Sign
11	201.9901	Remove And Salvage Traffic Signal System

- TRAFFIC SIGNAL CONSTRUCTION NOTES:**
- THE ITEM "REMOVE AND SALVAGE TRAFFIC SIGNAL SYSTEM" SHALL INCLUDE THE FOLLOWING MAJOR ITEMS AND SHALL BE ACCOMPLISHED IN ACCORDANCE WITH SPECIAL PROVISION FOR ITEM CODE 201.9901:
 - PEDESTRIAN SIGNAL POLES AND FOUNDATIONS, (4) PEDESTRIAN PUSHBUTTONS, (3) PEDESTRIAN SIGNAL HEADS,
 - UNKNOWN FOUNDATION IN THE VICINITY OF "P1/P6" TO BE REMOVED FOR INSTALLATION OF NEW PEDESTAL POLE AND CURBING/SIDEWALK MISCELLANEOUS CABLE, WIRING, HANDHOLES, CONDUIT, ETC.
 - FINISHED GRADE OF TRAFFIC SIGNAL POLE FOUNDATIONS SHALL BE FLUSH WITH THE EXISTING OR PROPOSED FINISHED GRADE OF THE ADJACENT SIDEWALK OR DRIVEWAY.
 - THE CONTRACTOR SHALL PROVIDE AN LB CONNECTION INTO THE WALL OF THE CABINET EXTENSION BASE FOR NEW CONDUIT CONNECTIONS TO THE CABINET. THIS WORK SHALL BE CONSIDERED INCIDENTAL TO ITEM T06.2030.
 - SEE STANDARD NOTES PLAN AND JOB SPECIFIC PLAN SYMBOLS, LEGEND & NOTES PLAN FOR ADDITIONAL INFORMATION.
 - PROPOSED PEDESTRIAN PUSHBUTTON ASSEMBLIES AND SIGNAL POLES SHALL BE PAINTED GLOSS BLACK.



APPROACH	DIRECTION	HOUSING	Ø1	Ø3	Ø4	Ø5	FLASHING OPERATION										
VEHICLE EXTENSION			2.4	2.4		2.4											
MAXIMUM 1			29	18		29											
MAXIMUM 2			29	18		29											
YELLOW CLEARANCE			3	3	3	3											
RED CLEARANCE				2													
PED. WALK/CHANGE					8/21												
AMERICAS CUP AVE	NB	A,B	R	R	R	R	R	R	R	R	R	G	Y	R		FY	
AMERICAS CUP AVE	NB	C,D	R	R	R	R	R	R	R	R	R	R	G	Y	R		FY
AMERICAS CUP AVE	SB	E,F	G	Y	R	R	R	R	R	R	R	R	R	R	R		FY
AMERICAS CUP AVE	SB	G,H,J	G	Y	R	R	R	R	R	R	R	R	R	R	R		FY
MARKET SQUARE	EB	K,L	R	R	R	G	Y	R	R	R	R	R	R	R		FR	
THAMES STREET	WB	M,N	R	R	R	G	Y	R	R	R	R	R	G	Y	R		FR
THAMES STREET	WB	O,P	R	R	R	G	Y	R	R	R	R	R	R	R		FR	

PEDESTRIAN X-ING	N-S	P1-P4	DW	DW	DW	DW	DW	DW	W/FDW	DW	DW	DW	DW	DW			DARK
PEDESTRIAN X-ING	E-W	P5-P10	DW	DW	DW	DW	DW	DW	W/FDW	DW	DW	DW	DW	DW			DARK



ADDENDUM NO. 1

DETECTOR NO.	NO. SECTION/ SIZE	RELAY NUMBER	SLOT	DELAY (SEC)	CALL PHASE	REMARKS
1	1-6'x40'	1	2	3	Ø1	PROPOSED
2	1-6'x40'	1	2	3	Ø1	PROPOSED
3	1-6'x40'	1	2	3	Ø5	PROPOSED
4	1-6'x40'	1	2	3	Ø5	PROPOSED
5	1-6'x40'	2	4	3	Ø3	PROPOSED
6	1-6'x40'	2	4	3	Ø3	PROPOSED
7	1-6'x40'	2	4	3	Ø3	PROPOSED
9	1-6'x40'	3	6	3	Ø1	PROPOSED
10	1-6'x40'	3	6	3	Ø1	PROPOSED
11	1-6'x40'	3	6	3	Ø5	PROPOSED
12	1-6'x40'	3	6	3	Ø5	PROPOSED
13	1-6'x6'	4	8	-	SYSTEM DETECTOR	PROPOSED
14	1-6'x6'	4	8	-	SYSTEM DETECTOR	PROPOSED
15	1-6'x6'	4	8	-	SYSTEM DETECTOR	PROPOSED
16	1-6'x6'	4	8	-	SYSTEM DETECTOR	PROPOSED

- NOTES:**
- SPLICE PROPOSED LOOP DETECTORS IN ADJACENT HANDHOLE AND UTILIZE EXISTING CABLING TO CONTROLLER CABINET UNLESS OTHERWISE SHOWN ON THE PLANS.

	PLAN 1	PLAN 2	PLAN 3	PLAN 4
CYCLE LENGTH	90	90	90	90
OFFSET	0	0	0	0
SPLIT Ø1	39	35	34	34
SPLIT Ø3	18	22	23	23
SPLIT Ø4	33	33	33	33
SPLIT Ø5	39	35	34	34
COORDINATED PHASE	Ø1&Ø5	Ø1&Ø5	Ø1&Ø5	Ø1&Ø5

PLAN 1 - MON-FRI 7:30AM-10:00AM, SUMMER MON-FRI 7:30AM-10:00AM
 PLAN 2 - MON-FRI 3:30PM-6:30PM, SAT-SUN 10:00AM-6:00PM,
 PLAN 3 - SUMMER MON-FRI 3:30PM-6:30PM,
 SUMMER SAT-SUN 10:00AM-6:00PM
 PLAN 4 - MON-FRI 10:00AM-3:30PM, SUMMER MON-FRI 10:00AM-3:30PM
 FREE - ALL OTHER TIME PERIODS

- NOTES:**
- Ø1&Ø5 "CALL NON ACTUATED" DURING COORDINATION.
 - OFFSET: BEGINNING OF Ø1&Ø5 GREEN.
 - PLAN FORCE OFF/FLOATING FORCE OFF SHALL BE IN EFFECT.
 - SPLIT TIMES EQUAL GREEN PLUS CLEARANCES.
 - INHIBIT MAX. TERMINATION SHALL BE IN EFFECT DURING

A-H,J,L,O-P	M,N	P1-P10
R	R	WALK
Y	Y	WALK
G	G	WALK

OPTICALLY PROGRAMMED
ALL 12" LENS
(ALL LED MODULES)

- NOTES:**
- TRAFFIC SIGNAL HEAD G IS PROPOSED AND SHALL BE POLYCARBONATE, AND BE PAINTED GLOSS BLACK. ALL REMAINING TRAFFIC SIGNAL HEADS ARE EXISTING.
 - PEDESTRIAN SIGNAL HEADS P1-P4 AND P6-P10 ARE PROPOSED AND SHALL BE POLYCARBONATE AND BE PAINTED GLOSS BLACK. PEDESTRIAN SIGNAL HEAD P15 IS EXISTING.

TRAFFIC SIGNAL NO. 245

NO.	DATE	BY
1	8/14/14	VHB

RHODE ISLAND
 DEPARTMENT OF TRANSPORTATION
 RI STARS
 ROADWAY SAFETY IMPROVEMENTS TO
 AMERICA'S CUP AVENUE AND
 MEMORIAL BOULEVARD (HSIP FUNDS)
 NEWPORT, RHODE ISLAND

TRAFFIC SIGNAL PLAN - 4
 AMERICA'S CUP AVE AT MARKET ST/ THAMES ST



ITEM NO.	ITEM CODE	ITEM DESCRIPTION
1	T05.0100	Precast Type A Handhole Standard 18.2.0
1a	T05.9901	Break into Existing Handhole
3a	T12.9901	Modify Existing Controller
4a	T11.9901	8 Foot, 16 Flute Steel Traffic Signal Post, Base and Foundation
4b	T11.9902	10 Foot, 16 Flute Steel Traffic Signal Post, Base and Foundation
5b	T14.3713	1 Way 3 Section Pedestal Mounted Signal Head 12 Inch
5c	T14.9901	1 Way Pedestal Mounted L.E.D. Pedestrian Signal Head with Countdown Timer 12 Inch
6e	T06.3030	3 Inch Rigid Steel Conduit - Under Existing Pavement
6g	T06.5330	3 Inch Schedule 40 Polyvinyl Chloride Plastic Conduit - Under Existing Pavement
7a	T04.5303	14 AWG 3 Conductor Cable
7b	T04.5305	14 AWG 5 Conductor Cable
7m	T04.5001	6 AWG Single Conductor Cable 600v Insulation
9	T13.1000	Traffic Detector - Loop Std. 19.6.0
10	T13.9901	Accessible Pedestrian Signal (APS) - Pedestrian Detector/Pushbutton With Sign
11	201.9901	Remove and Salvage Traffic Signal System

COORDINATION DATA
(ALL ENTRIES IN SECONDS)

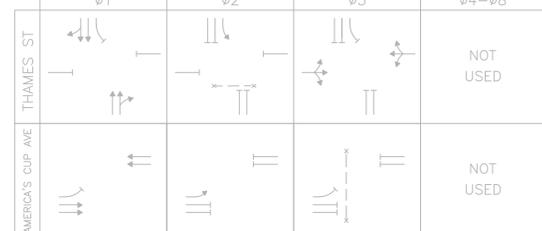
	PLAN 1	PLAN 2	PLAN 3	PLAN 4
CYCLE LENGTH	90	90	90	90
OFFSET	15	21	23	16
SPLIT ϕ 1	27	27	27	27
SPLIT ϕ 2	33	33	33	33
SPLIT ϕ 3	30	30	30	30
COORDINATED PHASE	ϕ 1	ϕ 1	ϕ 1	ϕ 1
PLAN 1 - MON-FRI 7:30AM-10:00AM, SUMMER MON-FRI 7:30AM-10:00AM				
PLAN 2 - MON-FRI 3:30PM-6:30PM, SAT-SUN 10:00AM-6:00PM,				
PLAN 3 - SUMMER MON-FRI 3:30PM-6:30PM,				
SUMMER SAT-SUN 10:00AM-6:00PM				
PLAN 4 - MON-FRI 10:00AM-3:30PM, SUMMER MON-FRI 10:00AM-3:30PM				
FREE - ALL OTHER TIME PERIODS				

- NOTES:**
- ϕ 1 "CALL NON ACTUATED" DURING COORDINATION.
 - OFFSET: BEGINNING OF ϕ 1 GREEN.
 - PLAN FORCE OFF/FLOATING FORCE OFF SHALL BE IN EFFECT.
 - SPLIT TIMES EQUAL GREEN PLUS CLEARANCES.
 - INHIBIT MAX. TERMINATION SHALL BE IN EFFECT DURING

SEQUENCE AND TIMING DIAGRAM												
APPROACH	DIRECTION	HOUSING	ϕ 1	ϕ 2	ϕ 3	FLASHING OPERATION						
VEHICLE EXTENSION			2.4	2.4	2.4							
MAXIMUM 1			21	27	25							
MAXIMUM 2			21	27	25							
YELLOW CLEARANCE			3	3	3							
RED CLEARANCE				3.5	3							
PED. WALK/CHANGE				7/17	7/17							
AMERICAS CUP AVE	NB	A,B	G	Y	R	R	R	R	R	R	R	FY
MEMORIAL BLVD	WB-LT	C	R	R	R	G	Y	R	R	R	R	F R
MEMORIAL BLVD	WB	D,E	G	Y	R	R	R	R	R	R	R	FY
AMERICAS CUP AVE	SB	F,G,H	G	Y	R	R	R	R	R	R	R	FY
AMERICAS CUP AVE	SB-LT	J	R	R	G	Y	R	R	R	R	R	F R
AMERICAS CUP AVE	SB	K,L	G	Y	R	R	R	R	R	R	R	FY
JUGHANDLE	NB	M,N	R	R	R	R	R	R	G	Y	R	FR
POST OFFICE DRIVE	SB	O,P	R	R	R	R	R	R	G	Y	R	FR
PEDESTRIAN X-ING	E-W	P1,P2	DW	DW	DW	DW	DW	DW	W	FDW	DW	DW
PEDESTRIAN X-ING	N-S	P3,P4	DW	DW	DW	W	FDW	DW	DW	DW	DW	DW
DETECTOR			NON-LOCK	NON-LOCK	NON-LOCK							
RECALL			MIN	OFF	OFF							

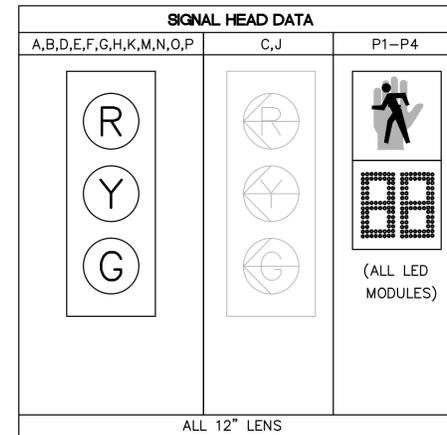
SEQUENCE AND TIMING NOTES:

- FLASHING OPERATION PER M.U.T.C.D.
- MAXIMUM 1 = NORMAL OPERATION
- MAXIMUM 2 = NOT USED
- PED. W/ FDW UPON PUSHBUTTON ACTUATION ONLY

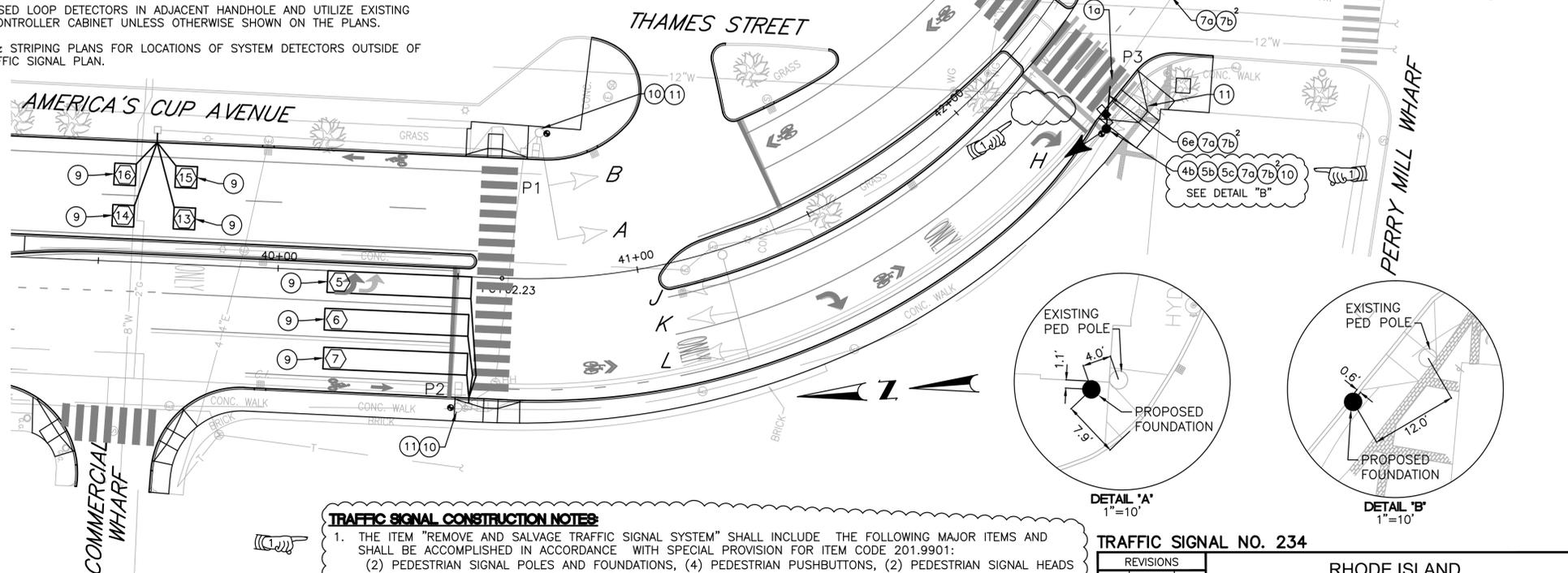


DETECTOR DATA						
DETECTOR NO.	NO. SECTION/ SIZE	RELAY NUMBER	SLOT	DELAY (SEC)	CALL PHASE	REMARKS
1	1-6'x40'	1	2	3	ϕ 2	PROPOSED
2	1-6'x40'	1	2	3	ϕ 1	PROPOSED
3	1-6'x40'	1	2	3	ϕ 1	PROPOSED
4	1-6'x40'	1	2	3	ϕ 3	PROPOSED
5	1-6'x40'	2	4	3	ϕ 2	PROPOSED
6	1-6'x40'	2	4	3	ϕ 1	PROPOSED
7	1-6'x40'	2	4	3	ϕ 1	PROPOSED
8	1-6'x40'	2	4	3	ϕ 3	PROPOSED
9	1-6'x6'	3	6	-	SYSTEM DETECTOR	PROPOSED
10	1-6'x6'	3	6	-	SYSTEM DETECTOR	PROPOSED
11	1-6'x6'	3	6	-	SYSTEM DETECTOR	ABANDONED
12	1-6'x6'	3	6	-	SYSTEM DETECTOR	ABANDONED
13	1-6'x6'	4	8	-	SYSTEM DETECTOR	PROPOSED
14	1-6'x6'	4	8	-	SYSTEM DETECTOR	PROPOSED
15	1-6'x6'	4	8	-	SYSTEM DETECTOR	PROPOSED
16	1-6'x6'	4	8	-	SYSTEM DETECTOR	PROPOSED

- NOTES:**
- SPlice PROPOSED LOOP DETECTORS IN ADJACENT HANDHOLE AND UTILIZE EXISTING CABLING TO CONTROLLER CABINET UNLESS OTHERWISE SHOWN ON THE PLANS.
 - SEE SIGNING & STRIPING PLANS FOR LOCATIONS OF SYSTEM DETECTORS OUTSIDE OF LIMITS OF TRAFFIC SIGNAL PLAN.



- NOTES:**
- TRAFFIC SIGNAL HEAD H IS PROPOSED AND SHALL BE POLYCARBONATE, AND BE PAINTED GLOSS BLACK. ALL REMAINING TRAFFIC SIGNAL HEADS ARE EXISTING.
 - PEDESTRIAN SIGNAL HEADS P1 AND P2 ARE EXISTING. PEDESTRIAN SIGNAL HEADS P3 AND P4 ARE PROPOSED AND SHALL BE POLYCARBONATE, AND BE PAINTED GLOSS BLACK.



- TRAFFIC SIGNAL CONSTRUCTION NOTES:**
- THE ITEM "REMOVE AND SALVAGE TRAFFIC SIGNAL SYSTEM" SHALL INCLUDE THE FOLLOWING MAJOR ITEMS AND SHALL BE ACCOMPLISHED IN ACCORDANCE WITH SPECIAL PROVISION FOR ITEM CODE 201.9901: (2) PEDESTRIAN SIGNAL POLES AND FOUNDATIONS, (4) PEDESTRIAN PUSHBUTTONS, (2) PEDESTRIAN SIGNAL HEADS MISCELLANEOUS CABLE, WIRING, HANDHOLES, CONDUIT, ETC.
 - FINISHED GRADE OF TRAFFIC SIGNAL POLE FOUNDATIONS SHALL BE FLUSH WITH THE EXISTING OR PROPOSED FINISHED GRADE OF THE ADJACENT SIDEWALK OR DRIVEWAY.
 - EXISTING LOOP DETECTOR 4 IS INSTALLED WITHIN THE PAVEMENT BINDER COURSE. THE PROPOSED LOOP DETECTOR SHALL ONLY BE INSTALLED IF THE EXISTING LOOP DETECTOR IS DAMAGED BY PAVING OPERATIONS.
 - SEE STANDARD NOTES PLAN AND JOB SPECIFIC PLAN SYMBOLS, LEGEND & NOTES PLAN FOR ADDITIONAL INFORMATION.
 - PROPOSED PEDESTRIAN PUSHBUTTON ASSEMBLIES AND SIGNAL POLES SHALL BE PAINTED GLOSS BLACK.

TRAFFIC SIGNAL NO. 234

REVISIONS		
NO.	DATE	BY
1	8/14/14	VHB

RHODE ISLAND
DEPARTMENT OF TRANSPORTATION

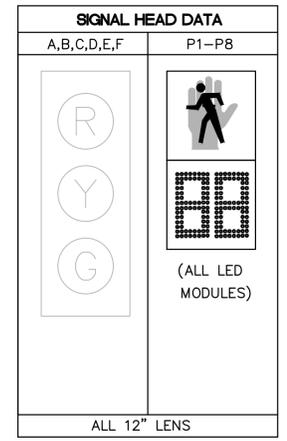
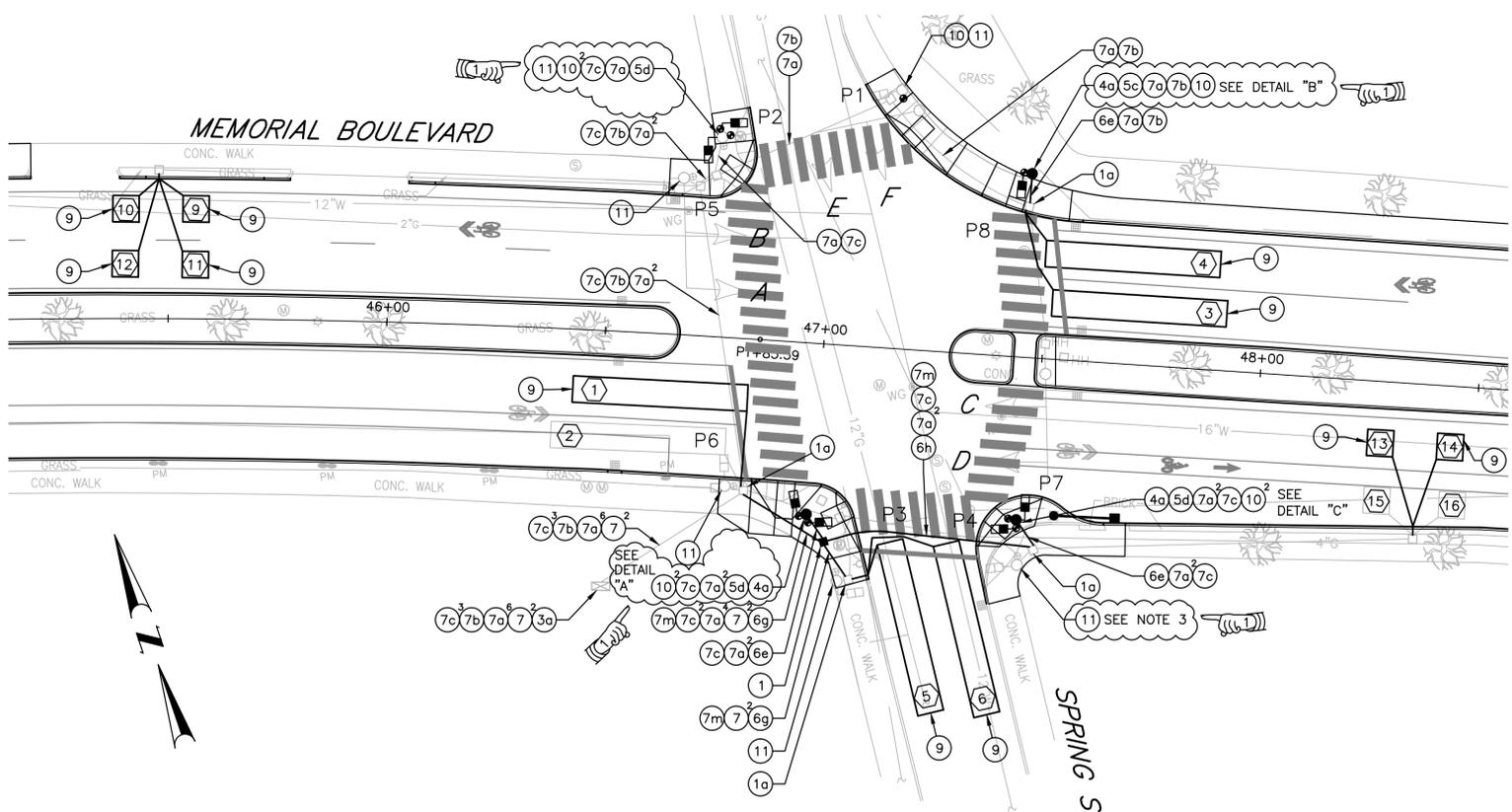
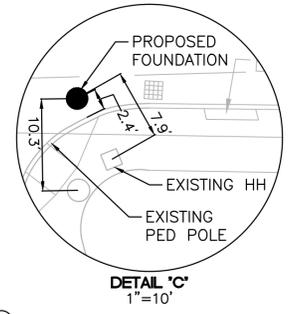
RI STARS
ROADWAY SAFETY IMPROVEMENTS TO
AMERICA'S CUP AVENUE AND
MEMORIAL BOULEVARD (HSIP FUNDS)
NEWPORT, RHODE ISLAND

TRAFFIC SIGNAL PLAN - 5
AMERICA'S CUP AVE AT MEMORIAL BLVD/THAMES ST

CHECKED BY _____ DATE _____ SCALE _____

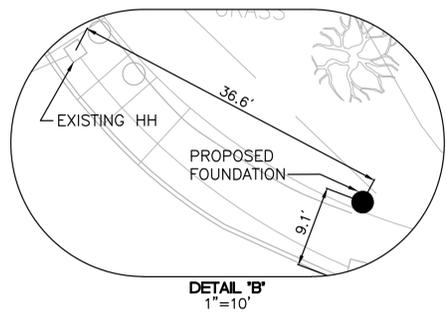
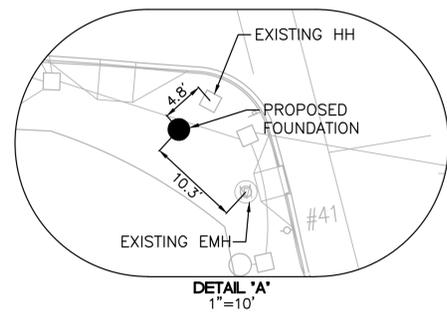


ITEM NO.	ITEM CODE	ITEM DESCRIPTION
1	T05.0100	Precast Type A Handhole Standard 18.2.0
1a	T05.9901	Break into Existing Handhole
3a	T12.9901	Modify Existing Controller
4a	T11.9901	8 Foot, 16 Flute Steel Traffic Signal Post, Base and Foundation
5c	T14.9901	1 Way Pedestal Mounted L.E.D. Pedestrian Signal Head with Countdown Timer 12 Inch
5d	T14.9902	2 Way Pedestal Mounted L.E.D. Pedestrian Signal Head with Countdown Timer 12 Inch
6e	T06.3030	3 Inch Rigid Steel Conduit - Under Existing Pavement
6g	T06.5330	3 Inch Schedule 40 Polyvinyl Chloride Plastic Conduit - Under Existing Pavement
6h	T06.5430	3 Inch Schedule 80 Polyvinyl Chloride Plastic Conduit - Under Existing Pavement
7	T04.5302	14 AWG 2 Conductor Twisted Shielded Cable
7a	T04.5303	14 AWG 3 Conductor Cable
7b	T04.5305	14 AWG 5 Conductor Cable
7c	T04.5307	14 AWG 7 Conductor Cable
7m	T04.5001	6 AWG Single Conductor Cable 600v Insulation
9	T13.1000	Traffic Detector - Loop Std. 19.6.0
10	T13.9901	Accessible Pedestrian Signal (APS) - Pedestrian Detector/Pushbutton With Sign
11	201.9901	Remove And Salvage Traffic Signal System



- NOTES:
 1. ALL TRAFFIC SIGNAL HEADS ARE EXISTING.
 2. PEDESTRIAN SIGNAL HEADS "P7" & "P8" ARE PROPOSED AND SHALL BE POLYCARBONATE. ALL REMAINING PEDESTRIAN SIGNAL HEADS ARE EXISTING.

- TRAFFIC SIGNAL CONSTRUCTION NOTES:**
- THE ITEM "REMOVE AND SALVAGE TRAFFIC SIGNAL SYSTEM" SHALL INCLUDE THE FOLLOWING MAJOR ITEMS AND SHALL BE ACCOMPLISHED IN ACCORDANCE WITH SPECIAL PROVISION FOR ITEM CODE 201.9901:
 (3) PEDESTRIAN SIGNAL POLES AND FOUNDATIONS, (6) PEDESTRIAN PUSHBUTTONS, (5) PEDESTRIAN SIGNAL HEADS, MISCELLANEOUS CABLE, WIRING, HANDHOLES, CONDUIT, ETC.
 - FINISHED GRADE OF TRAFFIC SIGNAL POLE FOUNDATIONS SHALL BE FLUSH WITH THE EXISTING OR PROPOSED FINISHED GRADE OF THE ADJACENT SIDEWALK OR DRIVEWAY.
 - SEE STANDARD NOTES PLAN AND JOB SPECIFIC PLAN SYMBOLS, LEGEND & NOTES PLAN FOR ADDITIONAL INFORMATION.
 - PROPOSED PEDESTRIAN PUSHBUTTON ASSEMBLIES AND SIGNAL POLES SHALL BE PAINTED GLOSS BLACK.



COORDINATION DATA
 (ALL ENTRIES IN SECONDS)

	PLAN 1	PLAN 2	PLAN 3	PLAN 4	PLAN 5
CYCLE LENGTH	90	90	90	90	
OFFSET	17	84	84	73	
SPLIT #2	28	28	29	30	
SPLIT #3	31	31	31	31	
SPLIT #4	31	31	30	29	
SPLIT #6	28	28	29	30	
COORDINATED PHASE	ø2&ø6	ø2&ø6	ø2&ø6	ø2&ø6	

PLAN 1 - MON-FRI 7:30AM-10:00AM, SUMMER MON-FRI 7:30AM-10:00AM
 PLAN 2 - MON-FRI 3:30PM-6:30PM, SAT-SUN 10:00AM-6:00PM,
 PLAN 3 - SUMMER MON-FRI 3:30PM-6:30PM,
 SUMMER SAT-SUN 10:00AM-6:00PM
 PLAN 4 - MON-FRI 10:00AM-3:30PM, SUMMER MON-FRI 10:00AM-3:30PM
 FREE - ALL OTHER TIME PERIODS

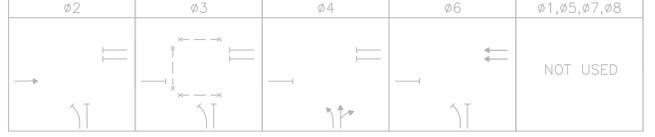
- NOTES:
 1. ø2&ø6 "CALL NON ACTUATED" DURING COORDINATION.
 2. OFFSET: BEGINNING OF ø2 GREEN.
 3. PLAN FORCE OFF/FLOATING FORCE OFF SHALL BE IN EFFECT.
 4. SPLIT TIMES EQUAL GREEN PLUS CLEARANCES.
 5. INHIBIT MAX. TERMINATION SHALL BE IN EFFECT DURING COORDINATION.

DETECTOR DATA						
DETECTOR NO.	NO. SECTION/SIZE	RELAY NUMBER	SLOT	DELAY (SEC)	CALL PHASE	REMARKS
1	1-6'x40'	1	2	1	ø2	PROPOSED
2	1-6'x40'	1	2	1	-	ABANDONED
3	1-6'x40'	1	2	1	ø6	PROPOSED
4	1-6'x40'	1	2	1	ø6	PROPOSED
5	1-6'x40'	2	4	5	ø4	PROPOSED
6	1-6'x40'	2	4	8	ø4	PROPOSED
9	1-6'x6'	3	6	-	SYSTEM DETECTOR	PROPOSED
10	1-6'x6'	3	6	-	SYSTEM DETECTOR	PROPOSED
11	1-6'x6'	3	6	-	SYSTEM DETECTOR	PROPOSED
12	1-6'x6'	3	6	-	SYSTEM DETECTOR	PROPOSED
13	1-6'x6'	4	8	-	SYSTEM DETECTOR	PROPOSED
14	1-6'x6'	4	8	-	SYSTEM DETECTOR	PROPOSED
15	1-6'x6'	4	8	-	SYSTEM DETECTOR	ABANDONED
16	1-6'x6'	4	8	-	SYSTEM DETECTOR	ABANDONED

- NOTES:
 1. SPLICE PROPOSED LOOP DETECTORS IN ADJACENT HANDHOLE AND UTILIZE EXISTING CABLING TO CONTROLLER CABINET UNLESS OTHERWISE SHOWN ON THE PLANS.

SEQUENCE AND TIMING DIAGRAM																				
APPROACH	DIRECTION	HOUSING	ø2				ø3				ø4				ø6				FLASHING OPERATION	
MINIMUM INTERVAL			8																	
VEHICLE EXTENSION			2.4							2.4						2.4				
MAXIMUM 1			26							24						25				
MAXIMUM 2			26							24						25				
YELLOW CLEARANCE				3				3			3					3				
RED CLEARANCE					1.5							2.5					2			
PED. WALK/CHANGE								8/19												
MEMORIAL BLVD	WB	A,B	R	R	R	R	R	R	R	R	R	R	G	Y	R					FY
MEMORIAL BLVD	EB	C,D	G	Y	R	R	R	R	R	R	R	R	R	R	R					FY
SPRING ST	NB	E,F	R	R	R	R	R	R	R	G	Y	R	R	R	R					FR
PEDESTRIAN X-ING	E-W	P1-P4	DW	DW	DW	W/FDW	DW	DW	DW	DW	DW	DW	DW	DW	DW					DARK
PEDESTRIAN X-ING	N-S	P5-P6	DW	DW	DW	W/FDW	DW	DW	DW	DW	DW	DW	DW	DW	DW					DARK

- SEQUENCE AND TIMING NOTES:
 1. FLASHING OPERATION PER M.U.T.C.D.
 2. MAXIMUM 1 = NORMAL OPERATION
 3. MAXIMUM 2 = NOT USED
 4. PED. W/FDW UPON PUSHBUTTON ACTUATION ONLY



ADDENDUM NO. 1



TRAFFIC SIGNAL NO. 233

REVISIONS
 NO. DATE BY
 1 8/14/14 VHB

RHODE ISLAND
 DEPARTMENT OF TRANSPORTATION

RI STARS
 ROADWAY SAFETY IMPROVEMENTS TO
 AMERICA'S CUP AVENUE AND
 MEMORIAL BOULEVARD (HSIP FUNDS)
 NEWPORT, RHODE ISLAND

TRAFFIC SIGNAL PLAN - 6
 MEMORIAL BLVD AT SPRING ST

CHECKED BY _____ DATE _____ SCALE _____