

May 3, 2013

STATE OF RHODE ISLAND AND PROVIDENCE PLANTATION
DEPARTMENT OF TRANSPORTATION
RHODE ISLAND CONTRACT NO.2011-CT-109
FEDERAL-AID PROJECT NO. FAP Nos: HPP-0974(004)

Division Street Access Improvements EARMARK funds. Design funded by NE Tech/Construction by RIDOT

South County Trail to 1320 feet west
CITY/TOWN OF East Greenwich
COUNTY OF KENT

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
A copy of the Pre-Bid Conference attendance sheet is attached to this Addendum No. 1.
2. R.I. Federal Aid Project No.
The R.I. Federal Aid Project No. has been revised.
3. Maintenance and Movement Traffic Protection
There will be no minimum bid price for Item Code No. 098, 937.0200 "Maintenance and Movement Traffic Protection."

B. Contract Documents

1. Contract 2011-CT-109
The R.I. Federal Aid Project No. has been revised.
2. General Provisions - Contract Specific
 - a. Page CS-1
Remove Page CS-1 in its entirety and replace it with revised Page CS-1(R-1) attached to this Addendum No. 1. The R.I. Federal Aid Project No. has been revised.

3. Specifications - Job Specific

a. Index Page JS-i

Remove Index Page JS-i in its entirety and replace it with revised Index Page JS-i(R-1) attached to this Addendum No. 1. The Index has been updated.

b. Page JS-9

Remove Page JS-9 in its entirety and replace it with the revised Page JS-9(R-1) attached to this Addendum No. 1. "Inlet Sediment Control Device" has been changed to Item Code 209.9902.

c. Page JS-23

Remove Page JS-23 in its entirety and replace it with revised Page JS-23(R-1) attached to this Addendum No. 1. The Specifications for Item Codes 701.9001, 701.9902, 701.9903 and 701.9904 have been added.

d. Pages JS-24 through JS-48

Add new pages JS-24 through JS-48 attached to this Addendum No. 1. The Specifications for Item Code Nos. 701.9901, 701.9902, 701.9903 and 701.9904 have been added.

e. Page JS-51

Remove Page JS-51 in its entirety and replace it with revised Page JS-51(R-1) attached to this Addendum No. 1. The Basis of Payment has been revised to include steel plating for maintenance of traffic.

C. Drawings/Plans - Change/Addition

1. Sheet 1 - Cover Sheet

Remove Sheet 1 in its entirety and replace it with revised Sheet 1(R-1) attached to this Addendum No. 1. The R.I. Federal Aid Project No. has been revised.

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

Remove Sheet 5 in its entirety and replace it with revised Sheet 5(R-1) attached to this Addendum No. 1. The pavement structure has changed.

3. Sheet 22 - Miscellaneous Details Sheet No. 1

Remove Sheet 22 in its entirety and replace it with revised Sheet 22(R-1) attached to this Addendum No. 1. The "Sediment Forebay Outlet Weir Detail" and the "Cross-Section Detail for Brick Paver Crosswalk (BPC)" have been revised and three (3) details have been added, "Typical Section of Rip-Rap", "Concrete Paver Apron in Splitter Island without Plantings" and "Concrete Paver Apron in Splitter Island with Plantings."

D. Distribution of Quantities

1. Index Pages 1 through 4

Remove Index Pages 1 through 4 in their entirety and replace them with revised Index Pages 1(R-1) through 4(R-1) attached to this Addendum No. 1. The R.I. Federal Aid Project No. has been revised and the Index has been updated.

2. Pages 1 through 41

Remove Pages 1 through 41 in their entirety and replace them with revised Pages 1(R-1) through 41(R-1) attached to this Addendum No. 1. The R.I. Federal Aid Project No. has been revised.

3. Page 7

Remove Page 7 in its entirety and replace it with the revised Page 7(R-1) attached to this Addendum No. 1. Item No. 25, 209.9901 "Inlet Sediment Control Device" has been deleted.

4. Page 9

Remove Page 9 in its entirety and replace it with the revised Page 9(R-1) attached to this Addendum No. 1. Item No. 032, 701.0512 "Reinforced Concrete Pipe M 170 Class IV 12 Inch", has been modified.

5. Page 16

Remove Page 16 in its entirety and replace it with the revised Page 16(R-1) attached to this Addendum No. 1. Item No. 063, 904.0100 "Remove and Reset Fence and/or Railing", has been deleted.

6. Page 22

Remove Page 22 in its entirety and replace it with revised Page 22(R-1) attached to this Addendum No. 1. Item No. 086, 920.9902 "Impervious Geomembrane" has been deleted.

7. Page 41

Remove Page 41 in its entirety and replace it with Revised Page 41(R-1) attached to this Addendum No. 1. Item No. 159, 209.9902 "Inlet Sediment Control Device" and Item No. 160, 701.9905 "12 Inch Polyvinyl Chloride Plastic Pipe - Schedule 40" have been added.



RI Department of Transportation
Chief Engineer

Improvements to Division Street
RIC 2011-CT-109 FAP HPP 0974 (004)
Pre Bid Conference April 25, 2013

Name	Affiliation	
Theodore Coleman	RIDOT Traffic Design	
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**STATE OF RHODE ISLAND AND PROVIDENCE PLANTATIONS
DEPARTMENT OF TRANSPORTATION**

**RHODE ISLAND CONTRACT NO. 2011-CT-109
FEDERAL AID PROJECT NO. HPP-0974(004)**

**IMPROVEMENTS TO DIVISION STREET (R.I. 401)
FROM SOUTH COUNTY TRAIL (R.1. 2) TO
1,320 FEET WEST**

**TOWNS OF EAST GREENWICH AND WEST WARWICK
COUNTY OF KENT**

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 Compilations of Approved Specifications
Required Contract Provisions for Federal-Aid Construction Contracts
 RIDOA Division of Purchases Procurement Regulations
 Rhode Island Standard Details
 Bridge Standard Details
 General Provisions
 General Provisions - Contract Specific
 Specifications - Job Specific
 Distribution of Quantities
 Plans
 Federal Wage Rates
 Quest Lite User Manual
 Quest Lite Installation

**CROSSMAN ENGINEERING
151 CENTERVILLE ROAD
WARWICK, RHODE ISLAND**

APRIL 2013

1. BRIEF SCOPE OF WORK

DESCRIPTION: R.I. Contract No. 2011-CT-109, R.I. Federal Aid Project No. HPP-0974(004) is for Improvements to Division Street from South County Trail (R.I. 2) to 1,320 feet west in the Town of East Greenwich, Rhode Island. This 1,320 foot project will include, but is not limited to the following work: Installing a new closed drainage system, 48-inch and 30-inch diameter extended duration detention pipe system and a sediment forebay, removal of existing pavement structure and installing a new pavement structure, cold-planing existing and disposing existing curb and placing new bituminous pavement, furnishing and installing new curb, new cement concrete sidewalks, installing wheelchair ramps, placing loam and seed, installing wet stone masonry retaining wall, landscaping, brick paver crosswalks, portland cement concrete truck apron with exposed aggregate finish, new loop detectors, signing, pavement markings, providing maintenance and protection of traffic, and providing all other work to complete the project.

2. LIST OF CONTRACT DRAWINGS

No.	Description
1	Cover Sheet
2	Standard Plan Symbols & Standard Legend
3	Standard Notes – 1
4	Standard Notes – 2
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CODE 209.9902

INLET SEDIMENT CONTROL DEVICE

- 1.0 DESCRIPTION.** This work consists of the provision of temporary storm drain inlet protection facilities constructed in reasonably close conformity with the dimensions and details indicated on the Plans or as directed by the Engineer, all in accordance with these Specifications.
- 2.0 MATERIALS.**
- 2.1** The inlet sediment control device shall be a sediment trap manufactured from a specially designed woven polypropylene geotextile and sewn by a double needle machine, using a high strength nylon thread.
- 2.2** The sediment trap will be manufactured to fit the opening of the catch basin or drop inlet. The sediment trap will have the following features: two dump straps attached at the bottom to facilitate the emptying of sediment trap; lifting loops as an integral part of the system to be used to lift the trap from the basin; a restraint cord approximately halfway up the sack to keep the sides away from the catch basin walls, this yellow cord is also a visual means of indicating when the sack should be emptied. Once the cord is covered with sediment, the trap should be emptied, cleaned and placed back into the basin.

Sediment Trap Properties

Property	Test Method	Units	Test Results
Grab Tensile	ASTM D-4632	lbs.	315
Grab Elongation	ASTM D-4632	%	15
Puncture	ASTM D-4833	Lbs.	140
Mullen Burst	ASTM D-3786	P.S.I.	800
Trapezoid Tear	ASTM D-4533	lbs.	125x125
UV Resistance (@500 hrs)	ASTM D-4355	%	80
AOS	ASTM D-4751	US Sieve	40
Flow Rate	ASTM D-4491	Gal/Min/Ft ²	50
Permittivity	ASTM D4491	Sec ⁻¹	0.70

JOB SPECIFIC

CODE 701.9901 - REMOVE AND DISPOSE HYDRANT AND REPAIR 12" ASBESTOS CEMENT WATER MAIN

CODE 701.9902 - KENT COUNTY WATER AUTHORITY POST TYPE HYDRANT

CODE 701.9903 - REMOVE AND DISPOSE 12" DUCTILE IRON WATER SERVICE AND REPAIR 16" DUCTILE IRON WATER MAIN

CODE 701.9904 - REMOVE AND DISPOSE HYDRANT AND REPAIR 16" DUCTILE IRON WATER MAIN

1.0 DESCRIPTION:

This work shall consist of modifying the existing Kent County Water Authority potable water distribution systems at the locations shown on the Plans, in accordance with these specifications, and/or as directed by the Engineer.

2.0 SUPPLEMENTAL SPECIFICATIONS:

In addition to the Contract Documents, all water system construction must conform to the current Rules and Regulations of the Kent County Water Authority. A copy of the Kent County Water Authority Rules and Regulations is available at their main office located at 1072 Main Street, West Warwick, Rhode Island and on their website at "www.kentcountywater.org".

3.0 QUALITY ASSURANCE:

- 3.1. All pipe and fittings shall be inspected and tested at the foundry as required by the standard specifications to which the material is manufactured. The Contractor shall furnish in duplicate to the Engineer sworn certificates of such tests.
- 3.2 Inspection of all installations shall be done in accordance with the Rules and Regulations of the Kent County Water Authority. Kent County Water Authority employees shall be given full access to the project site at all times for inspection on an as needed basis.
- 3.3 The Contractor shall be responsible for coordinating all construction activities relating to water main repair and construction with the Kent County Water Authority.

4.0 MATERIALS:

All materials must conform to Part IV-Materials of the Rules and Regulations of the Kent County Water Authority and these Contract Documents. A copy of Part IV-Materials from the Rules and Regulations of the Kent County Water Authority is shown in the appendix of this specification.

5.0 SUBMITTALS:

- 5.1 Six (6) sets of all shop drawings shall be submitted to the Engineer for review and two (2) sets of all shop drawings shall be submitted to the Kent County Water Authority.
- 5.2 Shop drawings shall consist of manufacturer's scale drawings, cuts or catalogs including descriptive literature and complete characteristics and specifications, and code requirements. Shop drawings shall be submitted for the ductile iron pipe, type of joint, fittings, couplings, filling rings, and lining and coating in accordance with specifications.

6.0 CONSTRUCTION METHODS:

- 6.1 Delivery, Storage, and Handling: All materials for the work of this section shall be delivered, stored, and handled to prevent damage. Manufactured materials shall be delivered and stored in their original containers, plainly marked with product and manufacturer's name. Coordinate delivery of all items to the project site to prevent delays.
- 6.2 Removal and Disposal: The removal and disposal of asbestos cement pipe and fittings, ductile iron pipe and fittings, hydrants, concrete encasements and all appurtenances shall conform to the requirements of Section 201-Site Preparation of the Contract Documents. The cost for this work shall be included in the unit bid prices for Item Codes 701.9901, 701.9902, 701.9903 and 701.9904. Payment for this work shall be under Item Codes 701.9901, 701.9902, 701.9903 and 701.9904.
- 6.3 Installation: The Contractor shall furnish all equipment and materials necessary to do the work and shall perform the work in accordance with the procedures outlined in this specification, Part III of the Kent County Water Authority Regulations and Part 700 – Drainage & Selected Utility Accessories of the Contract Documents with all amendments thereto. Where a conflict exists between the technical aspects of the specifications, the Kent County Water Authority Regulations shall supersede.

- 6.4 At the discretion of the Kent County Water Authority (KCWA), employees of the KCWA shall be witness to all water system construction. KCWA shall be notified forty-eight (48) hours in advance of any construction. (KCWA Tel. 821-9300, Contact Person: Mr. John Duchesneau, Director of Technical Services)
- 6.5 The pipe shall be installed with a minimum of five feet (5'-0") of cover, unless specifically indicated otherwise on the plans or directed by the Kent County Water Authority and the Engineer.
- 6.6 Where pipe is installed at less than the required cover, the Contractor shall furnish and install insulation as directed by the Kent County Water Authority and the Engineer.
- 6.7 Temporary Plugs: At all times when pipe laying is not actually in progress, the open ends of pipe shall be closed by temporary watertight plugs or by other approved means. If water is in the trench when work is resumed, the plug shall not be removed until all danger of water entering the pipe has passed.
- 6.8 Before starting any work that requires a shut-down of a water service line and/or water main, the Contractor must notify the Property Owner at least five (5) working days in advance of the work. The Contractor must adjust the work schedule for construction activities that require shut-down of a water main and/or a water service line to minimize any inconvenience to Kent County Water Authority customers and to accommodate
- 6.9 Closure of the 16" water main to permit removal of the 12" water service line and hydrant, and for repair of the 16" water line will only affect service to the New England Institute of Technology (NEIT). The Contractor must notify the NEIT five (5) days in advance of the work. The schedule for closure of the 16" water main and the repair work must be approved by the Kent County Water Authority and the Engineer. There is no separate pay item for this work, and all costs shall be included in the unit bid price for Item Code 701.9903.
- 6.10 Water service shall be maintained during removal of the existing hydrants and hydrant tees from the 12" asbestos cement water main and during the repair activities by installing line stop valves in the main on each side of the affected tees. The line stop valves are intended to isolate the tee while maintaining water service. There is no separate pay item for this work, and all costs shall be included in the unit bid price for Item Code 701.9901. The locations for installation of the line stop valves must be approved by the Kent County Water Authority and the Engineer. The schedule for repair work on the 12" asbestos cement water main must be approved by the Kent County Water Authority and the Engineer.

7.0 PRESSURE TESTING:

- 7.1 Prior to the pressure and leakage tests, the piping shall be thoroughly flushed clean of all dirt, dust, oil, grease and other foreign material. This work shall be done with care to avoid damage to linings and coatings.
- 7.2 The Contractor shall furnish all equipment and materials necessary to do the work of pressure testing, and shall perform the work in accordance with the procedures outlined in this specification and in Section 3.22 of the Kent County Water Authority Regulations with all amendments thereto.
- 7.3 At the discretion of the Kent County Water Authority (KCWA), employees of the KCWA shall be witness to all testing. KCWA shall be notified forty-eight (48) hours in advance of any pipe testing or disinfection.
- 7.4 If, in the judgment of Kent County Water Authority and the Engineer, it is impracticable to follow the specified procedures exactly for any reason, modifications in the procedures shall be made as required and approved, but in any event the Contractor shall be responsible for the ultimate tightness of the line within the leakage and pressure testing requirements.
- 7.5 If the section fails to pass the pressure and leakage test, the Contractor shall do everything necessary to locate, uncover, and repair or replace the defective pipe, fitting, or joint, all at his own expense and without extension of time for completion of the work. Additional tests and repairs shall be made until the section passes the specified test.

8.0 DISINFECTION AND FLUSHING:

- 8.1 The Contractor shall disinfect the lines carrying potable water.
- 8.2 At the discretion of the Kent County Water Authority (KCWA), employees of the KCWA shall be witness to all testing. KCWA shall be notified forty-eight (48) hours in advance of any pipe disinfection.
- 8.3 The Contractor shall furnish all equipment and materials necessary to do the work of disinfecting, and shall perform the work in accordance with the procedures outlined in AWWA C651, the Rhode Island Plumbing Code, Section 3.23 of the Kent County Water Authority Regulations, Appendix-C of the Kent County Water Authority Regulations and all amendments thereto.

8.4 If, in the judgment of Kent County Water Authority and the Engineer, it is impracticable to follow the foregoing procedure exactly for any reason, modifications in the procedure shall be made as required and approved, but in any event the Contractor shall be responsible for disinfection of new and repaired sections of the water system to the satisfaction of the Kent County Water Authority and the Engineer.

9.0 METHOD OF MEASUREMENT:

CODE 701.9901 - REMOVE AND DISPOSE HYDRANT AND REPAIR 12" ASBESTOS CEMENT WATER MAIN will be paid for by the number of each hydrant actually removed and disposed in accordance with the Plans and/or as directed by the Engineer.

CODE 701.9902 - KENT COUNTY WATER AUTHORITY POST TYPE HYDRANT will be paid for by the number of each hydrant actually installed in accordance with the Plans and/or as directed by the Engineer.

CODE 701.9903 - REMOVE AND DISPOSE 12" DUCTILE IRON WATER SERVICE AND REPAIR 16" DUCTILE IRON WATER MAIN will be paid for by the number of each 12" Ductile Iron Water Service laterals actually removed and disposed in accordance with the Plans and/or as directed by the Engineer.

CODE 701.9904 - REMOVE AND DISPOSE HYDRANT AND REPAIR 16" DUCTILE IRON WATER MAIN will be paid for by the number of each hydrant actually removed and disposed in accordance with the Plans and/or as directed by the Engineer.

10.0 BASIS OF PAYMENT:

CODE 701.9901 – REMOVE AND DISPOSE HYDRANT AND REPAIR 12” ASBESTOS CONCRETE WATER MAIN the accepted quantity will be paid for at the contract unit price each as listed in the Proposal. The price so-stated constitutes full and complete compensation for all labor, materials, and equipment to remove and dispose the hydrant, gate valve, gate valve box, hydrant lateral consisting of asbestos cement pipe and other types of pipe, asbestos cement and/or concrete tee, thrust blocks, pipe fittings, line stop valves, temporary piping and to install the ductile iron pipe and repair sleeve with transition couplings, sterilization/disinfection, testing, and for all incidentals required to finish the work complete and accepted by the Engineer.

CODE 701.9902 – KENT COUNTY WATER AUTHORITY POST TYPE HYDRANT the accepted quantity will be paid for at the contract unit price each as listed in the Proposal. The price so-stated constitutes full and complete compensation for all labor, materials, and equipment to furnish and install a post type hydrant, tapping sleeve, tapping valve and box, ductile iron pipe, ductile iron fittings, joint restraints, thrust blocks, sterilization/disinfection, testing, and for all incidentals required to finish the work complete and accepted by the Engineer.

CODE 701.9903 – REMOVE AND DISPOSE 12” DUCTILE IRON WATER SERVICE AND REPAIR 16” DUCTILE IRON WATER MAIN the accepted quantity will be paid for at the contract unit price each as listed in the Proposal. The price so-stated constitutes full and complete compensation for all labor, materials, and equipment to remove and dispose ductile iron pipe, pipe fittings, gate valves, gate valve boxes, thrust blocks, and to install the ductile iron pipe repair sleeve with solid sleeve couplings, sterilization/disinfection, testing, and for all incidentals required to finish the work complete and accepted by the Engineer.

CODE 701.9904 – REMOVE AND DISPOSE HYDRANT AND REPAIR 16” DUCTILE IRON WATER MAIN the accepted quantity will be paid for at the contract unit price each as listed in the Proposal. The price so-stated constitutes full and complete compensation for all labor, materials, and equipment to remove and dispose the hydrant, gate valve, gate valve box, hydrant lateral pipe (all types and sizes), hydrant tee, thrust blocks, pipe fittings, and to install the ductile iron pipe and repair sleeve couplings, sterilization/disinfection, testing, and for all incidentals required to finish the work complete and accepted by the Engineer.

CODES 701.9901, 701.9902, 701.9903 AND 701.9904

APPENDIX- Part IV-Materials of the Rules and Regulations of the Kent County Water
Authority



KENT COUNTY WATER AUTHORITY

ERRATUM to Rules and Regulations of the Kent County Water Authority

Section 4.9.1.1 Resilient Seat Gate 4 inch to 12 inch: Replace with the attached.

Section 4.9.1.3 Tapping Sleeves and Valves: Replace with the attached.

Section 4.10 Hydrants: Replace with the attached.

Approved KCWA February 15, 2007

4.9.1.1 Resilient Seat Gate 4 inch to 12 inch:

Type:	Buried Service non-rising stem. Above grade service or pits OS & Y with hand wheel or non-rising stem with hand wheel.
Working Pressure:	250 PSI.
Opening:	Left or right depending on system location.
Stem:	420 Stainless steel or equal with minimum tensile strength of 80,000 PSI tensile strength and a yield strength of 32,000 PSI.
Fasteners:	Stainless steel, type 304 for entire valve.
Coatings:	Internal & exterior to be coated with fuse bonded holiday free epoxy coating minimum 8 mils nominal thickness meeting or exceeding AWWA C550.
Wedges:	Fully rubber encapsulated cast iron, ductile iron or bronze gate meeting AWWA C509.
Operating Nut:	2 inch square operating nut with hexagon stainless steel bolt fastener.
Stem Seal:	Minimum two O-ring seals.
Connection:	Mechanical Joint.

4.9.1.3 Tapping Sleeves and Valves:

Valves shall be full body and full port tapping type meeting the requirements paragraph 4.9.1.1 above. Sleeves shall be full port ductile iron or grade 18-8 type 304 stainless steel. Ductile iron sleeves shall be of the same manufacturer as the valve or equal and bituminous or epoxy coated. All sleeves shall be manufactured to meet or exceed the design and operating characteristics of one of the following devices:

Type:	Resilient seat gate valves designed specifically for tapping.
Seal:	Stainless steel sleeves shall use grid pattern virgin rubber ASTM 2000, full 360-degree pipe coverage.

Ductile iron sleeves shall use mechanical joint with
rubber seals.

Maximum Working Pressure:	4 inch-12 inch 250 PSE, 16 inch-24 inch 200 PSI.
Fastener:	Grade 18-8 Type 304 stainless steel.

4.10 **HYDRANTS:**

To maintain system wide standardization, hydrants shall be dry barrel type with 5¼ inch valve. Hydrants shall conform to the "Standard Specifications for Fire Hydrants for Ordinary Water Works Service," AWWA C-502, and shall in addition meet the specific requirements of the Kent County Water Authority as listed. Hydrants shall be UL rated and suitable for 250-psi working pressure and service installation in a trench that will provide various minimum cover. Hydrants shall be according to manufacturer's standard pattern unless noted otherwise and of standard size, and shall be equipped with 6 inch mechanical joint connection for 6" ductile iron pipe, one 4 ½ inch steamer nozzle and two 2 ½ inch hose nozzles, brass or brass sleeved drains, National Standard Thread, hydrant inlet connections. Hydrants shall be of the full compression design, opening against and closing with the water pressure. The hydrants shall be designed to permit rotary movement of the upper barrel any number of degrees required to effect proper alignment without shutting down service or removing flange bolts and nuts. Hydrant must open turning operating nut to left (counterclockwise) and must be marked with an arrow and word "open" to indicate the direction to turn stem to open. All fasteners used shall be stainless steel.

Boot coatings to be fuse bonded epoxy or thermal set epoxy for interior and exterior-holiday free with minimum thickness 8 mils meeting or exceeding AWWA C550. Epoxy coating must be undamaged with no chips or abrasions. Lower barrel shall be bituminous coated or epoxy coated or equal. Field touch-up of epoxy interior coating is not allowed. Field touch-up of exterior surfaces shall be in accordance with manufactures recoating specifications only. Contractors shall use special handling and installation precautions with the use of epoxy coated appurtenances as necessary to ensure that no coating system damage occurs. All epoxy appurtenances found mishandled at delivery or during installation shall be rejected and removed from the job site. Above grade exposed hydrant components shall be coated with one coat zinc rich urethane primer or epoxy primer @ 2.5-3.5 mils dry film thickness. Hydrant barrel, breakaway flange, shall be coated with phenolic urethane enamel or urethane enamel gloss silver, two coats @ 4.0 mils dry film thickness each coat. Topcoat shall produce a consistent and holiday free color coating. Caps and Bonnet shall receive two coats of gloss safety red, phenolic urethane enamel or urethane enamel 4.0 mils dry film thickness each coat. Color coats shall produce a consistent and holiday free color coating. Surface shall be sand blasted to SSPC/SP-6 prior to coatings. All hydrants shall be shipped without chains. Manufacture shall provide a ten-year warranty on all parts and workmanship. Hydrant repair kits shall be original manufacture specifically

designed for the hydrant. All hydrants shall also be manufactured to meet or exceed additional design and operating characteristics listed below:

Type:	5 ¼ inch valve opening/3 port style, dry barrel.
Opening:	Open left.
Depth of Bury:	5'-0" minimum from bury line to top flange of hydrant boot.
Ports:	Two 2 ½ inch bronze hose ports 180° apart NST thread. One 4 ½ inch bronze pumper/steamer 90° from each hose port, NST thread.
Breakaway:	All hydrants to have traffic breakaway flange.
Drain Ways:	Sliding drain seal type or compression design. Drain channel shall be 360 degrees and contain a minimum of two bronze or brass sleeved outlet ports.
Coatings:	Prior to priming, sand blast hydrant to SSPC/SP-6 primed with zinc rich urethane compatible coating. Top coat with two coats each red and silver conforming to KCWA standard color, silver barrel and red cap and bonnet. Boot coatings to be fuse bonded epoxy or thermal set epoxy for interior and exterior – holiday free with minimum thickness 8 mils meeting or exceeding AWWA C550. Exterior lower barrel to be bituminous coated or epoxy coated or equal.
Stem:	Stainless steel upper and lower stem. All wetted parts such as springs, pins and fasteners, shall be stainless steel or other compatible lead free non corrosive materials.
Main Valve:	Ductile iron or cast iron core fully encapsulated in rubber or multiple pieces with epoxy lead free brass or EPDM rubber segments. Seat may be either bronze or stainless steel.

Weather shield
and cap:

Ductile Iron or cast iron.

Chains:

No chains to be supplied.

PART IV

MATERIALS

4.1 BACKGROUND:

Configuration management for the system wide standardization of repair parts, appurtenances, and construction materials are necessary to maintain reasonable spare parts inventories for emergency repairs and control the related cost to the benefit of the customer. For these reasons, the Kent County Water Authority has selected material standards that provide the greatest service life, reliability and are consistent with overall infrastructure compatibility. All materials used within the Kent County Water Authority shall be made in United States of America or specifically approved otherwise and conform to the standard requirements contained in this section.

4.2 SERVICES:

4.2.1 Service pipe sizes $\frac{3}{4}$ to 2 inch shall be either copper or H.D.P.E. pipe. Color must be blue with a virgin clear natural center. Continuous identification markings over the entire length of the pipe with sealed ends and coiled in rolls from 100 ft. minimum. When H.D.P.E. service pipe is chosen, a solid stainless steel insert shall be installed at each connection and a 12-foot type "K" copper whip shall be installed at the point of entry into any building or structure, and on the inlet and outlet of a meter pit.

4.2.1.1 H.D.P.E. shall conform to ASTM D1248 Type III, Grade P34, Class A, Category 5, color blue with virgin clear natural center. AWWA C901, 200 psi (CTS).

4.2.1.2 Copper pipe shall be Type "K" copper tubing designed for potable water service ANSI/ASTM B88.

4.2.2 Services 3 inch and above shall be ductile iron and conform to the requirements for main materials and installation.

4.3 METERS:

4.3.1 All meters shall be compatible with the system utilized by the Kent County Water Authority. The Neptune E-Coder R-900: system is standardized in Kent County.

4.3.2 All meters are to read in cubic feet. Must be capable of being read the Radio Frequency system in place at the Kent County Water Authority. Register shall contain a 9-digit local registration and 4-8 digits can be communicated for billing purposes.

- 4.3.3 Any meter located in a meter pit or chamber shall be equipped with registers designed specifically for moisture protection and “pit” style application.
- 4.3.4 All fire service meters shall be in accordance with the Kent County Water Authority and NFPA standards with UL/FM approved strainer designed for fire service.

4.4 *METER CHAMBER/PITS:*

- 4.4.1 Man size meter chambers or pits shall be constructed of reinforced, pre-cast, “Portland” type cement concrete, designed to withstand an AASHTO H-20 design load meter pit. Dimensions shall be obtained from the design engineer for the project. Buoyancy shall be considered in the design and placement of the chamber.
- 4.4.2 An above grade aluminum style hatch with stainless steel hardware shall be installed at the point of access. Access shall be located in the corner where the inside of the hatch frame is offset 12 inch away from each inside wall. Corrosion resistant, non-slip, steps or ladder shall be installed inside the chamber in the sidewall at the access point.
- 4.4.3 Single-family residential meter chambers shall be prefabricated of either concrete, fiberglass or PVC construction and fitted with an inner and outer cover. The inner cover shall be fitted with a gasket and clamping mechanism to prevent the intrusion of water. Pits shall be of sufficient size for installation and maintenance of meters.

4.5 *AIR RELEASE MANHOLE:*

Air Release Manholes shall be watertight pre-cast concrete constructed with watertight cast iron manhole frame and diamond check pattern cover. Cover shall have the word “WATER” cast upon it in 4 inch capital letters. The chamber, frame, cover, and structural components shall be designed to withstand a H-20 wheel loading. The frame and watertight cover assembly must conform to the requirements of the Kent County Water Authority for size and dimension. Manhole shall be outfitted with corrosion resistant, non-slip steps.

4.6 *THRUST RESTRAINT:*

- 4.6.1 Restraining devices shall be utilized on all mains. Thrust blocks shall be constructed from concrete 3000 PSI at 28 days, sized according to the size of pipeline, type of fitting, water pressure and the characteristics of the soil. The concrete shall be properly formed as to slope for the given application and bearing width. The concrete shall be in contact only with the fitting, not with the pipe itself, fasteners or the joint. Concrete curing time shall be a minimum of 7 days.
- 4.6.2 Thrust restraint may be via restrained joint, ductile iron pipe meeting ANSI/AWWA C151/A21.51 and ANSI/AWWA C11/A21. Restrained joint pipe lengths (restrained length) shall be sufficient to restrain thrust imparted by 1-1/2 times the anticipated working pressure but not less than 150 psi with a 1.5 factor of safety.

- 4.6.3 Gland and restraint components made from Ductile Iron and shall have a bituminous outside coating in accordance with ANSI/AWWA C151/A21.51 and ANSI/AWWA C153/A21.53 respectively. Capable of being used with standardized mechanical joint bell conforming to AWWA C111 and C153. Multiple wedge style restraint mechanism with powder coated heat-treated ductile iron wedges. Proper actuation ensured by torque limiting twist off nuts. Minimum safety factor 2 to 1. Restrained joints shall be suitable for 150 psi working pressure and fabricated of heavy section ductile iron casting. Gaskets shall meet the material requirements of ANSI/AWWA C111 for mechanical joint gaskets. Bolts and nuts as required should be low carbon steel conforming to ASTM A307, Grade B.

4.7 WATER PIPE:

- 4.7.1 All ductile-iron pipe and appurtenances shall be from a single manufacturer source. Foreign pipe fittings and gaskets are strictly forbidden. Ductile iron pipe shall conform to ANSI/AWWA C151/A21.51, ANSI/AWWA C150/A21.50 Class 52 double cement mortar lined. Gaskets shall conform to ANSI/AWWA C111/A21.1. All pipes shall have a bituminous outside coating in accordance with ANSI/AWWA C151/A21.51 and ANSI/AWWA C153/A21.53 respectively. All pipes shall be cement-mortar lined and seal coated in accordance with ANSI/AWWA C104/A21.14 except the lining thickness shall be twice that specified. Joints for pipe shall be push-on (Tyton style only) or mechanical joint conforming to ANSI/AWWA C111. All mechanical joint pipes shall be supplied with accessories. Restrained joints shall be suitable for 150 psi working pressure and fabricated of heavy section ductile iron casting. Gaskets shall meet the material requirements of ANSI/AWWA and made in the USA.

Type:	Ductile Iron meeting ANSI/AWWA C151/A21.51 ANSI/AWWA C150/A21.50.
Class:	Special thickness Class 52.
Lining:	Double cement mortar meeting ANSI/AWWA C151/A21.5.
End Joints:	Push on – Tyton style only – meeting ANSI/AWWA C111/A21.51. Mechanical Joint – meeting ANSI/AWWA C111/A21.11.
Coating:	Exterior: ANSI/AWWA C104/A21.4. Interior: All requirements of EPA for potable water.

Gasket: Rubber meeting ANSI/AWWA C111/A21.11.
Nitrile (in contaminated soil).

4.8 PIPE FITTINGS:

Ductile iron fittings shall conform to ANSI/AWWA C153/A21.53. Foreign fittings, gasket glands and accessories are strictly forbidden. All fittings shall have a bituminous outside coating in accordance with ANSI/AWWA C151/A21.51 and ANSI/AWWA C153/A21.53 respectively. All fittings shall be cement-mortar lined and seal coated in accordance with ANSI/AWWA C104/A21.14 except the lining thickness shall be twice that specified. Joints for fittings shall be mechanical joint conforming to ANSI/AWWA C111. All mechanical joint fittings shall be supplied with glands and accessories.

Type: 4 inch to 12 inch Ductile Iron compact meeting
ANSI/AWWA C153/A21.53.

16 inch and larger Ductile Iron meeting
ANSI/AWWA C153/A21.53 or ANSI/AWWA
C110/A21.10.

Pressure Class: Pipe fittings shall have a pressure rating of 350 for
24-inch and smaller and 250 psi for 30-inch and
larger. Fittings shall at a minimum have the same
pressure rating as the connecting pipe.

Gaskets: Rubber meeting ANSI/AWWA C111/A21.11.
Nitrile (in contaminated soil).

4.9 VALVES:

4.9.1 Valves shall be cast iron or ductile iron 250-psi working pressure. Operating stem shall be provided with a minimum of two (2) O-ring stem seals. Bonnet and gland bolts/washers shall be stainless steel. Wedges shall be fully encapsulated. The interior and exterior surfaces of all cast iron or ductile iron components shall be fusion bond epoxy coated, 8 mils minimum thickness. Epoxy coating must be undamaged with no chips or abrasions. Field touch-up of interior coating is not allowed. Field touch-up of exterior surfaces shall be in accordance with manufactures recoating specifications only. Contractors shall use special handling and installation precautions with the use of epoxy coated valves as necessary to ensure that no coating system damage occurs. At a minimum fiber slings or belts shall be used for all handling. All epoxy-coated valves shall be palletized and properly shrink-wrapped upon delivery to assure coating system integrity is not compromised. All epoxy valves found mishandled at delivery or during installation shall be rejected and removed from the job site. All valves shall be manufactured to meet or exceed AWWA C509 and ISO 9000 along with the design

and operating characteristics of the following devices:

4.9.1.1 Resilient Seat Gate 4 inch to 12 inch:

Type:	Buried Service non-rising stem. Above grade service or pits OS & Y with hand wheel or non-rising stem with hand wheel.
Working Pressure:	250 PSI.
Opening:	Left or right depending on system location.
Stem:	420 Stainless steel or equal with minimum 60,000 PSI yield strength.
Fasteners:	Stainless steel, type 304 for all of the valve.
Coatings:	Internal & exterior to be coated with fuse bonded holiday free epoxy coating minimum 8 mils nominal thickness meeting or exceeding AWWA C550.
Wedges:	Fully rubber encapsulated cast iron, ductile iron or bronze gate meeting AWWA C509.
Operating Nut:	2 inch square operating nut with hexagon stainless steel bolt fastener.
Stem Seal:	Minimum two O-ring seals.
Connection:	Mechanical Joint.

4.9.1.2 Butterfly 16" and larger:

Type:	Rubber seated tight closing or exceeding AWWA C504 underground service. Class 150 or 250 depending upon service application requirements.
Stem:	Grade 18-8 type 304 Stainless Steel.
Valve vane/disc:	Ductile iron or high strength cast iron with either mechanically fastened Buna rubber seal or type 316 stainless steel seal seat ring.
Seat:	Stainless steel or Buna N Rubber. Rubber seat can be either bonded or mechanically fastened and shall not

interrupt flow.

Actuator:	Dual link construction within a sealed housing for underground use designed for submergence in water to 25 feet of head and meeting AWWA C504. Valve nut shall be minimum of two-inch square made of ductile iron and fastened to stem. Operator to be traveling nut type capable of withstanding an overload input torque of 450 foot-pounds without damage to the valve or operator.
Opening:	Left or right depending on system location.
Fasteners:	Grade 18-8 stainless steel, type 304 for all fasteners of the valve.
Coatings:	Interior & exterior to be coated with fuse bonded holiday free epoxy minimum thickness 8 mils nominal meeting or exceeding AWWA C-550.
Connection:	Mechanical Joint or Flanged.

4.9.1.3 Tapping Sleeves and Valves:

Valves shall be full body and full port tapping type meeting the requirements paragraph 4.9.1.1 above. Sleeves shall be full port ductile iron or grade 18-8 type 304 stainless steel. Ductile iron sleeves shall be of the same manufacturer as of the valve and bituminous coated. All sleeves shall be manufactured to meet or exceed the design and operating characteristics of one of the following devices:

Type:	Resilient seat gate valves designed specifically for tapping.
Seal:	Stainless steel sleeves shall use grid pattern virgin rubber ASTM 2000, full 360-degree pipe coverage. Ductile iron sleeves shall use mechanical joint with rubber seals.
Maximum Working Pressure:	4 inch-12 inch 250 PSE, 16 inch-24 inch 200 PSI.
Fastener:	Grade 18-8 Type 304 stainless steel.

4.9.1.4 Swing-Check:

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- 4.9.1.4.1 Swing check valves shall utilize iron-body bronze-mounted design. They may employ metal to metal or composition to metal seat construction.
- 4.9.1.4.2 Working pressure shall be a minimum of 175 psi for valves up to 12 inch and 150 psi from 16 inch to 24 inch.
- 4.9.1.4.3 Swing check valves shall be mounted in a horizontal position. Direct access to the valve shall be accomplished by using a pre-cast concrete manhole with heavy-duty cast iron manhole frame and solid cover. Concrete structure and cover shall be capable of withstanding an ASHTO H-20 load. The cover shall have a diamond check pattern with the word "WATER" (in upper case letters) cast upon it. The manhole shall be outfitted with corrosion resistant, non-slip, steps.

4.9.2 Valve Road Box:

- 4.9.2.1 All valves (except swing-check) shall be equipped with a cast iron "Buffalo" type, adjustable (sliding) valve road box. The upper portion shall be 26 inch long and the bottom section 48 inch (min). Covers shall be 5-1/4" in diameter solid ring seat with the word "WATER" (in caps) cast upon it.
- 4.9.2.2 The upper portion of the box shall be manufactured with a heavy flange having sufficient bearing area to prevent settlement. The lower section shall be configured to enclose the valve stuffing box with an inside diameter of at least 4-1/4 inch. The installed box shall be capable of vertical adjustment of a minimum of 6 inch while maintaining an overlap of a least 4 inch between sections.

4.10 HYDRANTS:

To maintain system wide standardization, hydrants shall be dry barrel type with 5¼ inch valve. Hydrants shall conform to the "Standard Specifications for Fire Hydrants for Ordinary Water Works Service," AWWA C-502, and shall in addition meet the specific requirements of the Kent County Water Authority as listed. Hydrants shall be UL rated for 250-psi working pressure and service installation in a trench that will provide various minimum cover. Hydrants shall be according to manufacturer's standard pattern unless noted otherwise and of standard size, and shall be equipped with 6 inch mechanical joint connection for 6" ductile iron pipe, one 4 ½ inch steamer nozzle and two 2 ½ inch hose nozzles, brass or brass sleeved drains, National Standard Thread, hydrant inlet connections. Hydrants shall be of the full compression design, opening against and closing with the water pressure. The hydrants shall be designed to permit rotary movement of the upper barrel any number of degrees required to effect proper alignment without shutting down service or removing flange bolts and nuts. Hydrant must open turning

operating nut to left (counterclockwise) and must be marked with an arrow and word "open" to indicate the direction to turn stem to open. All fasteners used shall be stainless steel.

Boot coatings to be fuse bonded epoxy or thermal set epoxy for interior and exterior-holiday free with minimum thickness 8 mils meeting or exceeding AWWA C550. Epoxy coating must be undamaged with no chips or abrasions. Lower barrel shall be bituminous coated or epoxy coated. Field touch-up of epoxy interior coating is not allowed. Field touch-up of exterior surfaces shall be in accordance with manufactures recoating specifications only. Contractors shall use special handling and installation precautions with the use of epoxy coated appurtenances as necessary to ensure that no coating system damage occurs. All epoxy appurtenances found mishandled at delivery or during installation shall be rejected and removed from the job site. Above grade exposed hydrant components shall be coated with one coat zinc rich urethane primer @ 2.5-3.5 mils dry film thickness. Hydrant barrel, breakaway flange, shall be coated with pherolic urethane enamel gloss silver, two coats @ 4.0 mils dry film thickness each coat. Topcoat shall produce a consistent and holiday free color coating. Caps and Bonnet shall receive two coats of gloss safety red, phenolic urethane enamel 4.0 mils dry film thickness each coat. Color coats shall produce a consistent and holiday free color coating. Surface shall be sand blasted to SSPC/SP-6 prior to coatings. All hydrants shall be shipped without chains. Manufacture shall provide a ten-year warranty on all parts and workmanship. Hydrant repair kits shall be original manufacture specifically designed for the hydrant. All hydrants shall also be manufactured to meet or exceed additional design and operating characteristics listed below:

- | | |
|----------------|---|
| Type: | 5 ¼ inch valve opening/3 port style, dry barrel. |
| Opening: | Open left. |
| Depth of Bury: | 5'-0" minimum from bury line to top flange of hydrant boot. |
| Ports: | Two 2 ½ inch bronze hose ports 180° apart NST thread.

One 4 ½ inch bronze pumper/steamer 90° from each hose port, NST thread. |
| Breakaway: | All hydrants to have traffic breakaway flange. |
| Drain Ways: | Sliding drain seal type. Drain channel shall be 360 degrees and contain a minimum of two bronze or brass sleeved outlet ports. |
| Coatings: | Prior to priming, sand blast hydrant to SSPC/SP-6 primed with zinc rich urethane compatible coating. Top coat with two coats each red and silver conforming to KCWA standard color, silver barrel |

and red cap and bonnet.

Boot coatings to be fuse bonded epoxy or thermal set epoxy for interior and exterior – holiday free with minimum thickness 8 mils meeting or exceeding AWWA C550.

Exterior lower barrel to be bituminous coated or epoxy coated.

Stem: Stainless steel upper and lower stem. All wetted parts such as springs, pins and fasteners, shall be stainless steel or other compatible lead free non corrosive materials.

Main Valve: Ductile iron or cast iron core fully encapsulated in rubber or multiple piece. Seat may be either bronze or stainless steel.

Weather shield and cap: Ductile Iron.

Chains: No chains to be supplied.

4.11 CORPORATION STOP:

Corporation stops shall be ball type with either stainless steel, Synthetic coated brass ball or nickel coated brass ball designed for potable water service up to 300 PSI. Body shall be heavy cast lead free "EnviroBrassII" UNS Alloy Number C89520 ASTM B584-98a and/or AWWA C800/ASTM B-62 meeting or exceeding the lead leaching performance specifications of ANSI/NSF 61 Standard. All corporation stops shall meet or exceed design standards of AWWA C800 along with the design and operating characteristics of the following:

Type: Ford or equal.

Sizes: ¾, 1 inch, 1 ½ inch, and 2 inch

Opening: Open left.

End Connections: Compression with non-corrosive grip ring meeting ASTM B-159-Buna N Rubber and conductivity ring. Threaded end shall be AWWA CC taper thread for direct tap.

Material: Heavy cast lead free "EnviroBrassII" UNS Alloy

Number C89520 ASTM B584-98a and/or AWWA C800/ASTM B-62 meeting or exceeding the lead leaching performances specifications of ANSI/NSF 61 Standard.

4.12 CURB STOPS:

Curb stops shall be ball type with either stainless steel, synthetic coated brass or nickel coated brass ball designed for water service up to 300 psi. Body shall be heavy cast lead free "EnviroBrassII" UNS Alloy Number C89520 ASTM B584-98a and/or meet or exceed the lead leaching performance specifications of ANSI/NSF 61 Standard. All curb stops to meet or exceed the design standards of AWWA C800 along with the design and operating characteristics of the following:

Type:	Ford or equal.
Sizes:	¾ inch, 1 inch, 1 ½ inch, and 2 inch
Opening:	Open left.
End Connections:	Compression with non corrosive grip ring meeting ASTM B-159-Buna N Rubber and conductivity ring.
Material:	Heavy cast lead free "EnviroBrassII" UNS Alloy Number C89520 ASTM B584-98a and/or AWWA C800/ASTM B-62 meeting or exceeding the lead leaching performance specifications of ANSI/NSF 61 Standard.
Opening:	Open left.
Drain:	None.

4.13 SERVICE & GATE BOX:

4.13.1 Curb boxes may be manufactured in North America or selected foreign made. Selected foreign made boxes must receive prior approval based on design and style samples to be provided for review. They shall be heavy pattern cast iron, buffalo style, slip adjustable type with heavy cast iron cover and brass bolt fastener type lock. The word "WATER" shall be cast upon the cover in heavy pattern raised letters. Covers shall be drop in type without fins solid ring. Boxes shall have a bituminous internal and external coating in accordance with ANSI/AWWA C151/A21.51 and ANSI/AWWA C153/A21.53 respectively. Boxes shall have barrels of not less than 2 ½ inch in diameter. The upper section of each box shall have a bottom flange of sufficient bearing area to prevent settling. The base of the lower section shall be a reinforced arch configuration and sized to enclose the curb stop. Box sections shall be of sufficient length to provide complete

coverage for the depth of bury.

4.13.2 Gate valve boxes may be either manufactured in North America or selected foreign made. Selected foreign made boxes must receive prior approval bases on design and style samples to be provided for review. They shall be heavy pattern cast iron, slip adjustable type and provided with heavy cast iron cover. Cover shall have the word "WATER" cast upon in heavy pattern raised letters 5 ¼ inch diameter. Cover shall be drop in type without fins solid ring. Boxes shall have a bituminous internal and external coating in accordance with ANSI/AWWA C151/A21.51 and ANSI/AWWA C153/A21.53 respectively. The upper section of each box shall have a bottom flange of sufficient bearing area to prevent settling. The bottom of the lower section shall be bell shaped and sized to enclose the stuffing box and operating nut of the valve. Boxes shall have barrels of not less than 5" in diameter. Box sections shall be of sufficient length to provide complete coverage for the depth of bury. Upper portion shall be 26" long and the bottom Section 48" (min) in length.

4.14 SADDLES:

Service saddles and repair saddles shall be ductile iron or type 304 stainless steel, with stainless steel bolts, washers, nuts and bands. Ductile iron components shall be coated with fusion bonded epoxy minimum 8 mils thickness meeting or exceeding AWWA C550 or nylon coated. Saddles shall be manufactured to meet or exceed the design and operating characteristics of following:

4.14.1 Service:

Type:	Ford or equal.
Body:	Ductile iron or grade 18-8 type 304 stainless steel.
Coating:	Ductile iron components shall be epoxy coated AWWA C 500 or nylon coated.
Band:	Grade 18-8 type 304 stainless steel double band.
Fasteners:	304 stainless steel stud, nut & washers.
Gasket:	Virgin rubber ASTM 2000.
Outlet:	Threaded outlet tapped to AWWA C 800 for the appropriate service size.

4.14.2 Repair:

Type: Ford or equal.

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Body:	Ductile iron or grade 18-8 type 304 stainless steel.
Coating:	Ductile iron components shall be epoxy coated AWWA C 500 or nylon coated.
Band:	Grade 18-8 type 304 stainless steel double band.
Fasteners:	304 stainless steel stud, nut & washers.
Gasket:	Virgin rubber ASTM 2000.
Outlet:	Threaded outlet tapped to AWWA C 800 for the appropriate service size.

4.15 FULL CIRCLE REPAIR:

All components and fasteners shall be type 304 stainless steel. Gasket shall be virgin rubber for water service. All repair clamps shall be manufactured to be equal to the material and design requirements the following:

Type:	Ford or equal.
Body:	Grade 18-8 type 304 stainless steel.
Fasteners:	304 stainless steel stud, nut & washers.
Gasket:	Grid pattern virgin rubber ASTM 2000, full 360 degree coverage.

4.16 DUCTILE IRON COUPLINGS:

Straight and transition couplings shall be ductile iron manufactured to meet AWWA C 219 and fitted with stainless steel bolts washers and nuts. Ductile iron components shall be coated with fusion bonded epoxy minimum 8 mils thickness meeting or exceeding AWWA C550. Couplings shall be manufactured to meet or exceed the design and operating characteristics of the following:

4.16.1 Straight:

Type:	Ford or equal.
Body:	Ductile iron.
Coating:	Ductile iron components shall be epoxy coated AWWA C 500.

Fasteners: 304 stainless steel stud, nut & washers.

Gasket: Rubber ASTM 2000.

4.16.2 Transitional:

Type: Ford or equal.

Body: Ductile iron.

Coating: Ductile iron components shall be epoxy coated
AWWA C 500.

Fasteners: 304 stainless steel stud, nut & washers.

Gasket: Rubber ASTM 2000.

4.17 BACKFLOW PREVENTERS:

All devices must have been approved by the University of Southern California (FCCCHR, USC), American Water Works Association and American Society of Sanitary Engineers. Backflow device assemblies tested with manufactures isolation valves to meet FCCCHR, USC standards shall be installed with the manufacturer valves as an assembly. Bronze or brass components shall meet or exceed the lead leaching performance specifications of ANSI/NSF 61 Standard or be manufactured with lead free "Enviro Brass II" USN Alloy Number C89520, ASTM B584-98a.

4.17.1 Testable Double Check:

Type: Watts or equal.

Body: Cast iron, bronze or stainless steel depending on size.

Coating: Iron components shall be epoxy coated AWWA
C-500.

Springs: Stainless Steel.

Pressure: Maximum 150 psi Minimum 10 psi.

4.17.2 Testable Reduced Pressure:

Type: Watts or equal.

Body: Cast iron, bronze or stainless steel depending on size.

Coating: Iron components shall be epoxy coated AWWA C-500.

Springs: Stainless Steel.

Pressure: Maximum 175 psi – Minimum 10 psi.

4.17.3 Household Dual Check:

Type: Watts or equal.

Body: Cast bronze.

Springs: Stainless Steel.

Pressure: Maximum 150 psi – Minimum 10 psi.

4.18 BACKFILL:

- 4.18.1 Pipe bedding shall be processed borrow gravel, granular in nature, the major portion of which may be sand or gravel. It shall be free from peat, vegetable or organic matter or any other debris and readily compactable. Recycled road sweepings and contaminated material are forbidden.
- 4.18.2 Selected backfill may be from excavated materials that shall be free draining, clean, granular soil suitable for backfill. It shall be free from peat, vegetable or organic matter or any other debris and shall be readily compactable to the requirements of Kent County Water Authority, type 5 trench. Recycled road sweepings and contaminated material are forbidden. Up to 20 percent may be rock like material, not to exceed 3 inch in length or diameter and must be evenly distributed within the total volume of the fill.

Where the geometry of paving area does not allow receiving full size units or pavers require fitting against the edges, the paver shall be cut. All pavers shall be saw cut to straight and even surfaces without chipping. Pavers with chips, cracks, and/or irregularities as a result of saw cutting shall not be permitted.

Once the area has been paved, the Contractor shall spread a thin layer of stone fine bedding over the paver surface. The stone fine material shall be swept into the joints between the pavers. The Contractor shall water and resweep until joints are flush and firm and to the satisfaction of the Engineer. Once all joints have been filled, the Contractor shall sweep clean all pavers and surrounding surfaces.

The Contractor shall remove from the site all excess materials, debris, tools and equipment. The Contractor shall repair damage resulting from brick paver work at his/her expense.

METHOD OF MEASUREMENT. "Brick Paver Crosswalk" will be measured by the number of square feet of such pavers actually installed in accordance with the Plans and/or as directed by the Engineer.

BASIS OF PAYMENT. The accepted quantity of "Brick Paver Crosswalk" will be paid for at the contract unit price square foot as listed in the Proposal. The price so-stated constitutes full and complete compensation for all labor, materials including but not limited to gravel borrow, granite curbing, concrete, filter fabric, pea gravel, stone fines, brick pavers, sawcutting, steel plating for maintenance of traffic, excavation and equipment and for all incidentals required to finish the work, complete and accepted by the Engineer.

Pavers with chips, cracks, voids, or other defects shall not be accepted and shall be replaced at no additional expense of the Owner.

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SHEET NO.	DESCRIPTION
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4	STANDARD NOTES - 2
5	JOB SPECIFIC PLAN SYMBOLS, LEGEND, & NOTES
6-7	GENERAL PLAN NOS. 1-2
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12-13	SIGNING & STRIPING PLAN NOS. 1-2
14-15	LANDSCAPE PLAN NOS. 1-2
16	LANDSCAPE DETAILS NO. 1
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19	LIGHTING DETAIL PLAN NO. 1
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22	MISCELLANEOUS DETAILS SHEET NO. 1
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25	MISCELLANEOUS DETAILS SHEET NO. 4

STATE OF RHODE ISLAND



DEPARTMENT OF TRANSPORTATION

PLANS OF PROPOSED
STATE HIGHWAY

IMPROVEMENTS TO DIVISION STREET (R.I. 401)

FROM SOUTH COUNTY TRAIL (R.I. 2) TO 1,320 FEET WEST

TOWN OF EAST GREENWICH AND WEST WARWICK
COUNTY OF KENT

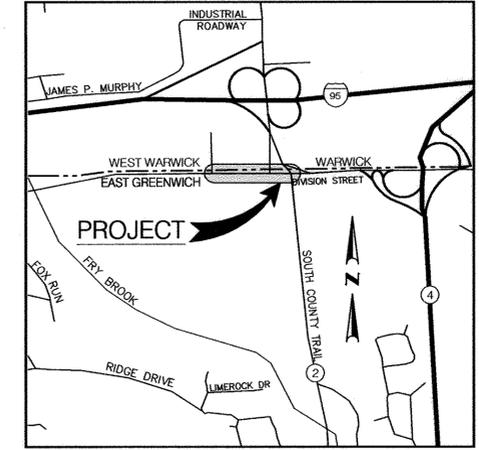
R.I. CONTRACT NO. 2011-CT-109 F.A. PROJECT NO. HPP-0974(004)

PAVEMENT STRUCTURE

2 - INCH MODIFIED CLASS 12.5
6 - INCH CLASS 19

12 - INCH GRAVEL BORROW SUBBASE COURSE

FED. ROAD DIV. NO.	STATE	FEDERAL AID PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
1	RI	HPP-0974(004)	2011	1	25

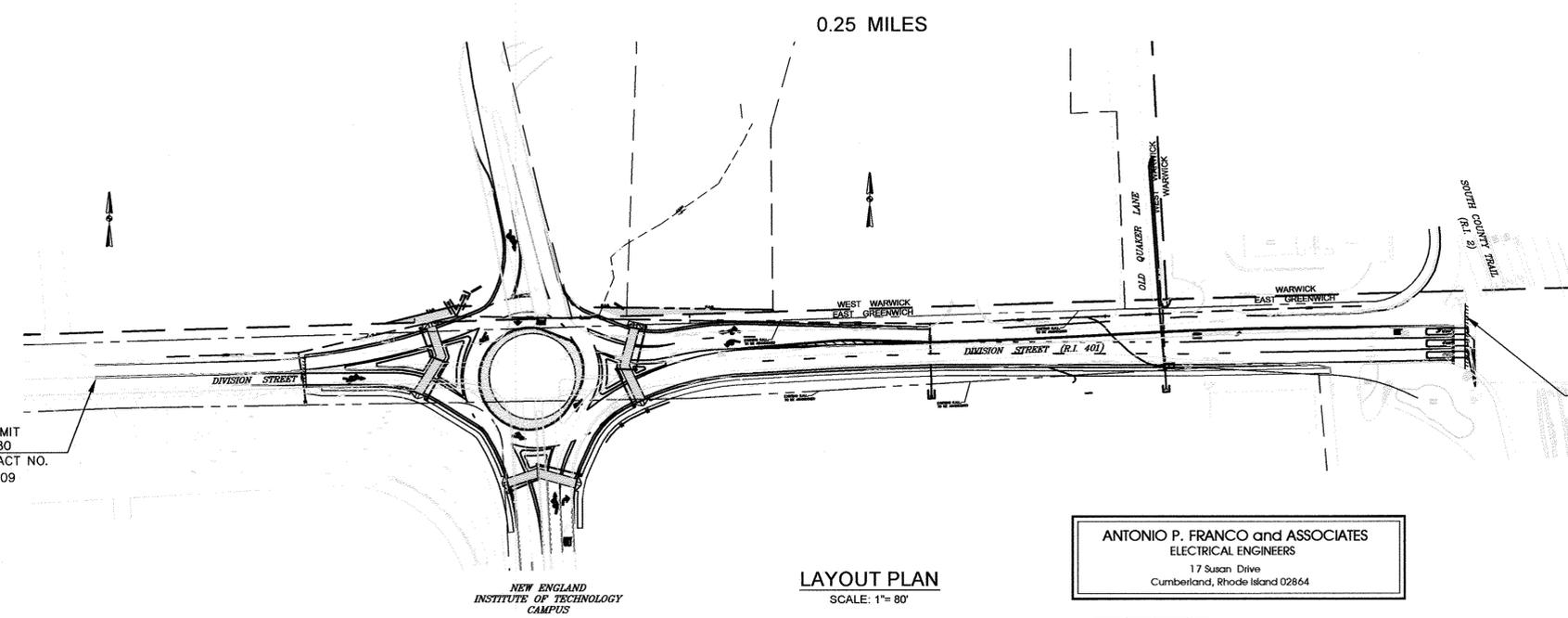


LOCATION MAP
NOT TO SCALE

DIVISION STREET	
DESIGN	DESIGNATION
2010 AADT	8,500
2030 AADT	10,600
D	55%
K	10%
T	
DDHV	630
DHV	1,200
DESIGN SPEED	40 MPH

HURRICANE EVACUATION ROUTE

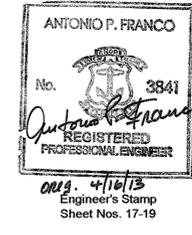
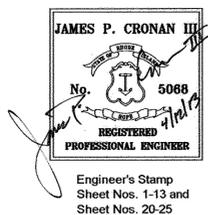
This project includes work on a designated Hurricane Evacuation and Diversionary Route as follows:
- Division Road
Refer to Note 18 on Standard Notes - 1



LAYOUT PLAN
SCALE: 1" = 80'

SCALES OF DRAWINGS
Plans: 1 inch = 20 feet

BASE OF LEVELS
NGVD 29



ANTONIO P. FRANCO and ASSOCIATES
ELECTRICAL ENGINEERS
17 Susan Drive
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BETA Group, Inc.
Engineers • Planners • Landscape Architects • Scientists
6 Blackstone Valley Place, Lincoln, RI 02865

CROSSMAN ENGINEERING
a division of Crossman Corporation |
151 Centerville Road | Warwick, Rhode Island 02886

PROJECT LIMIT
STA. 104+80
R.I. CONTRACT NO.
2011-CT-109

PROJECT LIMIT
STA. 104+80
R.I. CONTRACT NO.
2011-CT-109

NEW ENGLAND
INSTITUTE OF TECHNOLOGY
CAMPUS

R.I. DEPARTMENT OF TRANSPORTATION

APPROVED *Randy Sini* 4/16/13
DEPUTY CHIEF ENGINEER DATE

APPROVED *K. F. Fark* 4/17/13
CHIEF ENGINEER DATE

APPROVED *[Signature]* 4/17/13
DIRECTOR DATE

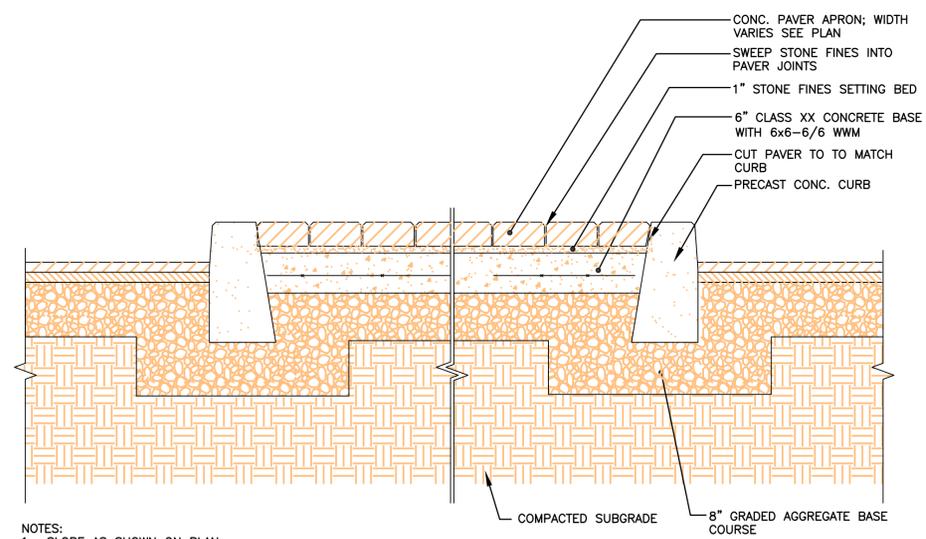
DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION

APPROVED _____ DATE _____
DIVISION ADMINISTRATOR

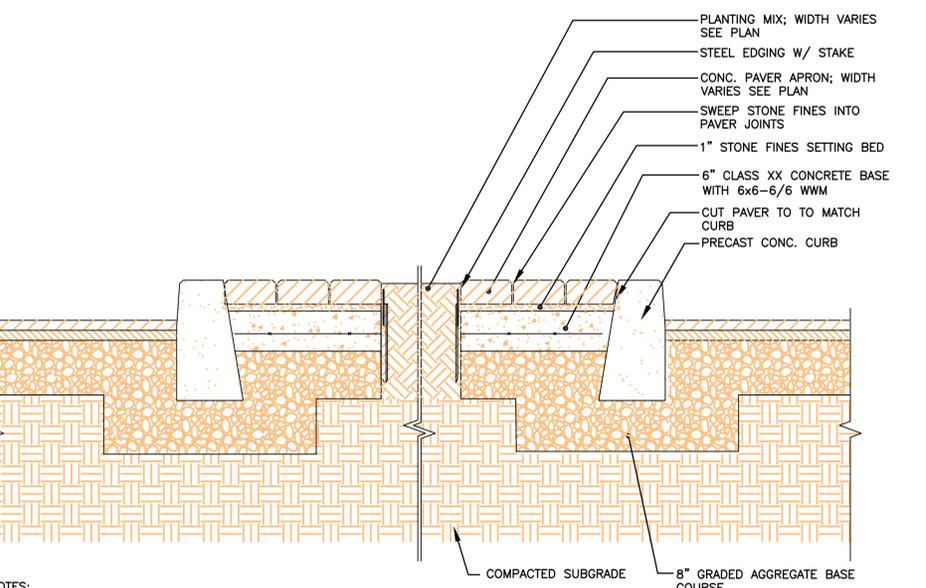
Contract Number 2011-CT-109
Number of Sheet 1
Total Sheets 25

ADDENDUM NO. 1

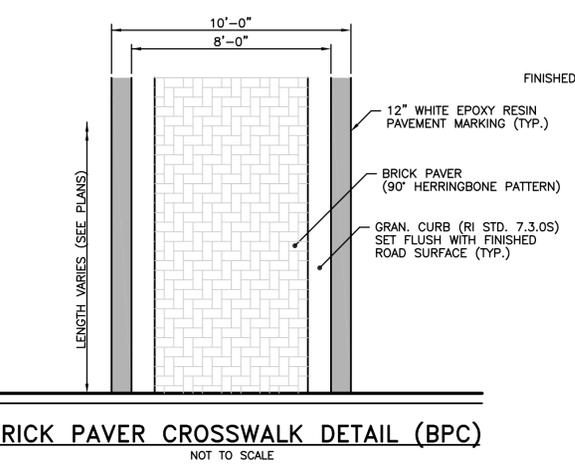
R.I. STANDARD SPECIFICATIONS AND STANDARD DETAILS.
SPECIFICATIONS TO GOVERN THIS PROJECT ARE THE R.I. STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, 2004 EDITION, WITH ALL REVISIONS, AND THE STATE AND FEDERAL SPECIAL PROVISIONS INCLUDED IN THE CONTRACT DOCUMENTS. STANDARD DETAILS FOR THIS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



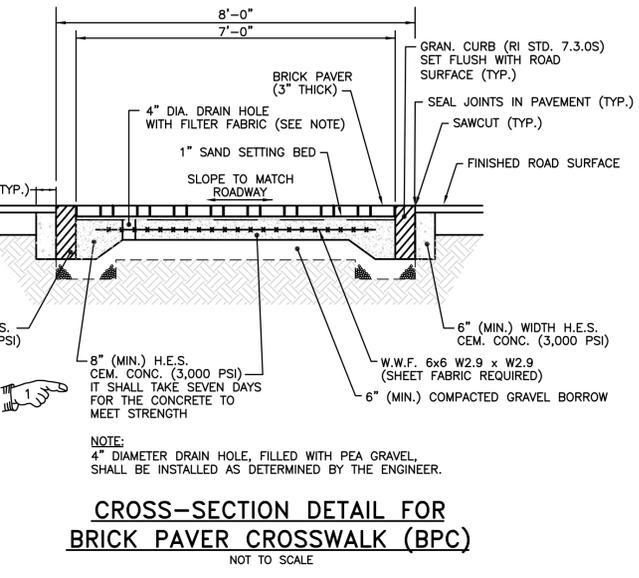
CONCRETE PAVER APRON IN SPLITTER ISLAND WITHOUT PLANTING
 NOT TO SCALE



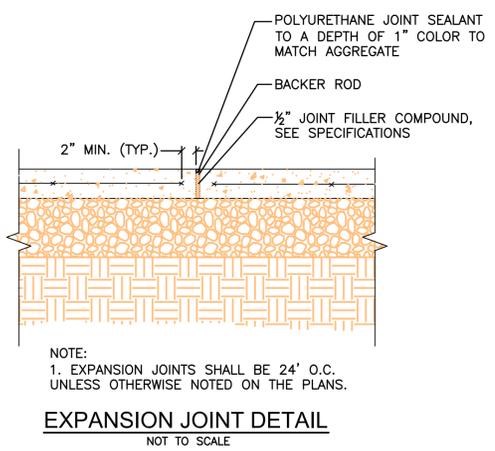
CONCRETE PAVER APRON IN SPLITTER ISLAND WITH PLANTING
 NOT TO SCALE



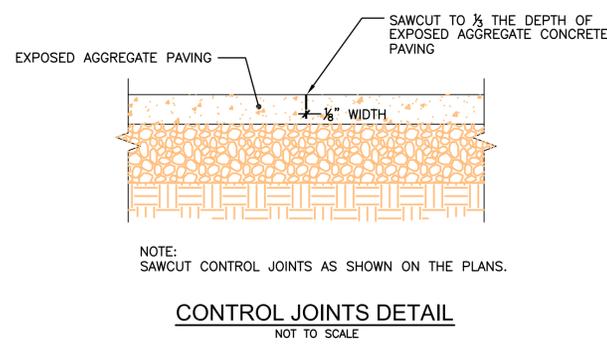
BRICK PAVER CROSSWALK DETAIL (BPC)
 NOT TO SCALE



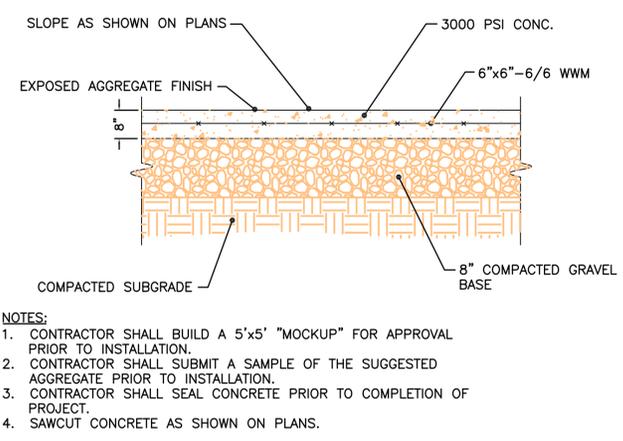
CROSS-SECTION DETAIL FOR BRICK PAVER CROSSWALK (BPC)
 NOT TO SCALE



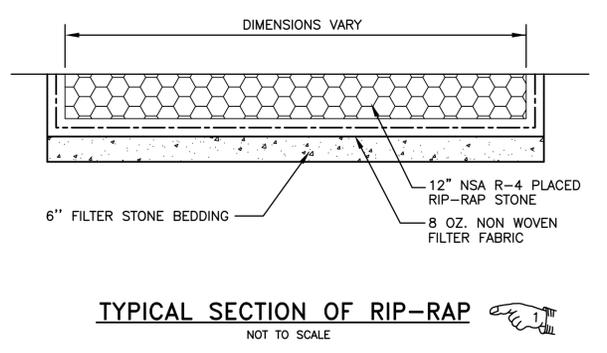
EXPANSION JOINT DETAIL
 NOT TO SCALE



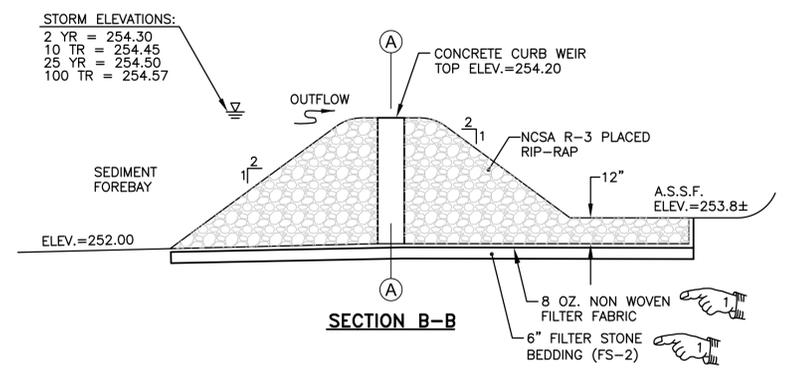
CONTROL JOINTS DETAIL
 NOT TO SCALE



TYPICAL SECTION EXPOSED AGGREGATE CONCRETE TRUCK APRON
 NOT TO SCALE



TYPICAL SECTION OF RIP-RAP
 NOT TO SCALE

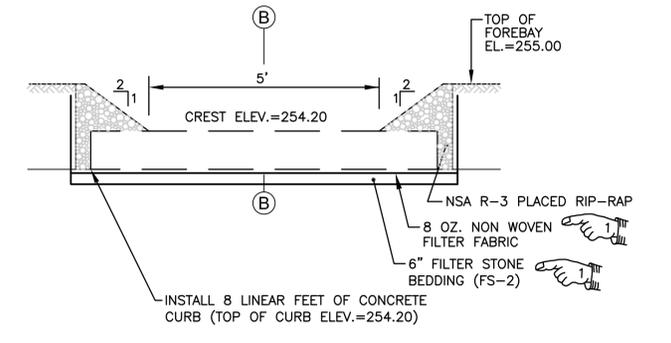


SECTION B-B

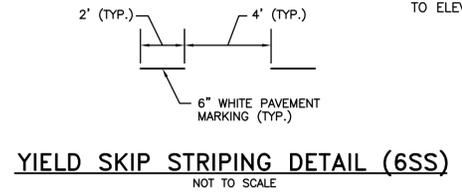
SEDIMENT FOREBAY STAGE/STORAGE TABLE

ELEVATION	CONTOUR AREA (S.F.)	TOTAL STORAGE (C.F.)
252.00	247	0
253.00	431	339
254.00	639	874
255.00	873	1,630

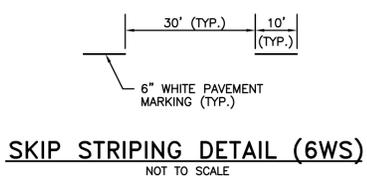
NOTE: THE MINIMUM STORAGE VOLUME FROM ELEVATION 252.00 TO ELEVATION 254.20 MUST BE 1,025 CUBIC FEET.



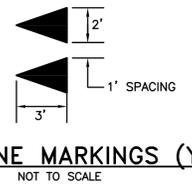
SECTION A-A SEDIMENT FOREBAY OUTLET WEIR DETAIL
 NOT TO SCALE



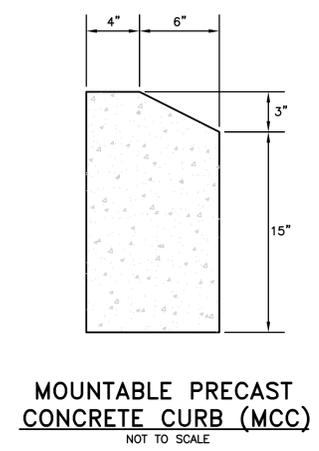
YIELD SKIP STRIPING DETAIL (6SS)
 NOT TO SCALE



SKIP STRIPING DETAIL (6WS)
 NOT TO SCALE



YIELD LINE MARKINGS (YL)
 NOT TO SCALE



MOUNTABLE PRECAST CONCRETE CURB (MCC)
 NOT TO SCALE

REVISIONS		
NO.	DATE	BY
1	05/02/13	CE

RHODE ISLAND DEPARTMENT OF TRANSPORTATION

IMPROVEMENTS TO DIVISION STREET (R.I. 401) FROM SOUTH COUNTY TRAIL (R.I. 2) TO 1,320 FEET WEST EAST GREENWICH/WEST WARWICK RHODE ISLAND

MISCELLANEOUS DETAILS
 SHEET NO. 1

CHECKED BY _____ DATE _____ SCALE NO. SCALE

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201.0403	REMOVE AND DISPOSE SIDEWALKS	2
201.0409	REMOVE AND DISPOSE FLEXIBLE PAVEMENT	2
201.0410	REMOVE AND DISPOSE CATCH BASINS	2
201.0414	REMOVE AND DISPOSE PIPE - ALL SIZES	3
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201.0423	REMOVE AND DISPOSE HANDHOLE	3
201.0604	REMOVE AND DISPOSE GROUND MOUNTED SIGN POSTS	4
201.0610	REMOVE AND DISPOSE DIRECTIONAL, WARNING, REGULATORY, SERVICE, AND STREET SIGNS	4
201.9901	REMOVE AND DISPOSE STONE WALL	4
201.9902	REMOVE AND DISPOSE MAILBOX	4
201.9903	REMOVE AND RECONSTRUCT EXISTING MONUMENT SIGNS	5
201.9904	REMOVE AND DISPOSE ROCKS	5
201.9905	REMOVE AND STOCKPILE WALL	5
201.9906	REMOVE AND RESET SIGN	5
201.9907	REMOVE AND DISPOSE STEEL POST (INCLUDING FOUNDATION)	5
201.9908	REMOVE AND DISPOSE CONCRETE STRUCTURE	6
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202.0700	COMMON BORROW	6
204.0100	TRIMMING AND FINE GRADING	6
206.9901	COMPOST FILTER SOCK - 8 INCH DIAMETER	6
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401.9901	CLASS 19	7
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701.0518	REINFORCED CONCRETE PIPE M 170 CLASS IV 18 INCH	9
701.0530	REINFORCED CONCRETE PIPE M 170 CLASS IV 30 INCH	9
701.0548	REINFORCED CONCRETE PIPE M 170 CLASS IV 48 INCH	9
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701.7718	18 INCH REINFORCED CONCRETE PIPE END SECTION STANDARD 2.3.0	10
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001	201.0302	CUTTING AND DISPOSING ISOLATED TREES AND STUMPS (24'' OR PLUS)	EACH			
		DIVISION STREET				
		107+73 RT		1.00	0004	01
		107+90 LT		1.00	0004	01
		108+21 RT		1.00	0004	01
		108+46 RT		1.00	0004	01
		109+96 LT		1.00	0004	01
		110+20 LT		1.00	0004	01
		110+80 LT		1.00	0004	01
		116+20 RT		1.00	0004	01
Item 201.0302 Total:				8.00		
002	201.0305	COMPLETE REMOVAL AND DISPOSAL OF ISOLATED STUMPS (6'' TO 24'')	EACH			
		DIVISION STREET				
		108+00 LT		1.00	0004	01
Item 201.0305 Total:				1.00		
003	201.0321	CLEARING AND GRUBBING	SY			
		DIVISION STREET				
		109+06 RT (ISLAND)		72.00	0004	01
		109+18 LT - 109+94 LT		318.00	0004	01
		115+28 RT - 116+49 RT		229.00	0004	01
Item 201.0321 Total:				619.00		
004	201.0402	REMOVE AND DISPOSE CONCRETE CURB	LF			
		DIVISION STREET				
		106+84 RT - 108+83 RT		319.00	0004	01
		108+51 LT - 108+65 LT		212.00	0004	01
		108+93 LT - 109+05 LT		171.00	0004	01
		109+03 RT - 109+09 RT		205.00	0004	01
		109+19 LT - 109+38 LT		87.00	0004	01

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004	201.0402 Cont.	109+28 RT - 109+69 RT		146.00	0004	01
		109+35 RT - 110+32 RT		190.00	0004	01
		109+41 LT - 109+60 LT		24.00	0004	01
		116+71 RT		5.00	0004	01
Item 201.0402 Total:				1,359.00		
005	201.0403	REMOVE AND DISPOSE SIDEWALKS	SY			
		DIVISION STREET				
		106+84 RT - 108+70 RT		107.00	0004	01
		109+28 RT - 109+69 RT		106.00	0004	01
		109+69 RT - 109+85 RT		8.00	0004	01
Item 201.0403 Total:				221.00		
006	201.0409	REMOVE AND DISPOSE FLEXIBLE PAVEMENT	SY			
		DIVISION STREET				
		106+84 - 112+08		4,093.00	0004	01
		109+38 LT - 109+68 LT		17.00	0004	01
		112+08 - 114+50		1,157.00	0004	01
		113+50 RT - 116+50 RT		103.00	0004	01
Item 201.0409 Total:				5,370.00		
007	201.0410	REMOVE AND DISPOSE CATCH BASINS	EACH			
		DIVISION STREET				
		108+00 RT		1.00	0004	01
		108+32 RT		1.00	0004	01
		108+72 RT		1.00	0004	01
		109+26 RT		1.00	0004	01
		109+68 RT		1.00	0004	01
		110+34 RT		1.00	0004	01
		110+53 RT		1.00	0004	01
		111+15 RT		1.00	0004	01
		113+37 LT		1.00	0004	01

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007	201.0410 Cont.	113+37 RT		1.00	0004	01
		115+05 RT		1.00	0004	01
Item 201.0410 Total:				11.00		
008	201.0414	REMOVE AND DISPOSE PIPE - ALL SIZES LF				
		DIVISION STREET				
		107+99 RT - 108+32 RT		36.00	0004	01
		108+32 RT - 108+72 RT		45.00	0004	01
		108+72 RT - 109+26 RT		57.00	0004	01
		109+26 RT - 109+68 RT		41.00	0004	01
		109+68 RT - 110+34 RT		71.00	0004	01
		110+34 RT - 110+53 RT		19.00	0004	01
		110+53 RT - 111+15 RT		63.00	0004	01
		111+15 RT - 112+08 RT		94.00	0004	01
		112+08 RT - 113+39 RT		131.00	0004	01
		113+38		49.00	0004	01
		113+39 RT - 115+05 RT		168.00	0004	01
		115+05 RT - 115+90 RT		85.00	0004	01
Item 201.0414 Total:				859.00		
009	201.0419	REMOVE AND DISPOSE FENCE	LF			
		DIVISION STREET				
		108+13 LT - 108+58 LT		104.00	0004	01
		109+70 - 112+17 RT		290.00	0004	01
		112+17 - 116+57 RT		453.00	0004	01
Item 201.0419 Total:				847.00		
010	201.0423	REMOVE AND DISPOSE HANDHOLE	EACH			
		DIVISION STREET				
		108+50 LT		1.00	0004	01
		108+52 RT		1.00	0004	01
		109+35 RT		1.00	0004	01
		109+71 LT		1.00	0004	01

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Item No.	Item Code	Description	UM	Qty.	Pay Code	Seq. No.
010	201.0423	Cont.				
Item 201.0423 Total:				4.00		
011	201.0604	REMOVE AND DISPOSE GROUND MOUNTED SIGN POSTS	EACH			
		DIVISION STREET				
		108+77 RT		1.00	0004	01
		109+05 RT		1.00	0004	01
		109+09 RT		1.00	0004	01
		109+35 RT		1.00	0004	01
Item 201.0604 Total:				4.00		
012	201.0610	REMOVE AND DISPOSE DIRECTIONAL, WARNING, REGULATORY, SERVICE, AND STREET SIGNS	EACH			
		DIVISION STREET				
		108+69 RT		1.00	0004	01
		108+80 LT		1.00	0004	01
		109+07 RT		1.00	0004	01
		109+30 RT		1.00	0004	01
		109+45 RT		1.00	0004	01
		109+61 RT		1.00	0004	01
		109+79 LT		1.00	0004	01
		111+40 LT		1.00	0004	01
Item 201.0610 Total:				8.00		
013	201.9901	REMOVE AND DISPOSE STONE WALL	LF			
		DIVISION STREET				
		107+98 LT - 108+49 LT		67.00	0004	01
Item 201.9901 Total:				67.00		
014	201.9902	REMOVE AND DISPOSE MAILBOX	EACH			
		DIVISION STREET				
		109+35 RT		1.00	0004	01

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Item No.	Item Code	Description	UM	Qty.	Pay Code	Seq. No.
014	201.9902	Cont.				
		Item 201.9902 Total:		1.00		
015	201.9903	REMOVE AND RECONSTRUCT EXISTING MONUMENT SIGNS	EACH			
		DIVISION STREET				
		108+48 LT		1.00	0004	01
		109+45 LT		1.00	0004	01
		Item 201.9903 Total:		2.00		
016	201.9904	REMOVE AND DISPOSE ROCKS	EACH			
		DIVISION STREET				
		107+33 LT		1.00	0004	01
		107+44 LT		1.00	0004	01
		107+56 LT		1.00	0004	01
		107+65 LT		1.00	0004	01
		Item 201.9904 Total:		4.00		
017	201.9905	REMOVE AND STOCKPILE WALL	LF			
		DIVISION STREET				
		107+73 RT - 107+85 RT		12.00	0004	01
		108+09 RT - 108+40 RT		32.00	0004	01
		Item 201.9905 Total:		44.00		
018	201.9906	REMOVE AND RESET SIGN	EACH			
		DIVISION STREET				
		107+90 LT		1.00	0004	01
		Item 201.9906 Total:		1.00		
019	201.9907	REMOVE AND DISPOSE STEEL POST (INCLUDING FOUNDATION)	EACH			
		DIVISION STREET				
		108+80 RT		1.00	0004	01
		109+08 RT		1.00	0004	01

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Item No.	Item Code	Description	UM	Qty.	Pay Code	Seq. No.
019	201.9907 Cont.	109+12 RT		1.00	0004	01
		109+37 RT		1.00	0004	01
Item 201.9907 Total:				4.00		
020	201.9908	REMOVE AND DISPOSE CONCRETE	CY			
		STRUCTURE				
		DIVISION STREET				
		115+48 - 115+60 RT		3.00	0004	01
Item 201.9908 Total:				3.00		
021	202.0100	EARTH EXCAVATION	CY			
		DIVISION STREET				
		106+84 - 112+08		1,673.00	0004	01
		112+08 - 116+50		549.00	0004	01
		TAKEN FROM CODE 905.01110		103.00	0004	01
Item 202.0100 Total:				2,325.00		
022	202.0700	COMMON BORROW	CY			
		DIVISION STREET				
		AS NEEDED		70.00	0004	01
Item 202.0700 Total:				70.00		
023	204.0100	TRIMMING AND FINE GRADING	SY			
		DIVISION STREET				
		106+84 - 112+08		3,773.00	0004	01
		112+08 - 116+50		1,239.00	0004	01
		TAKEN FROM CODE L01.0104		767.00	0004	01
Item 204.0100 Total:				5,779.00		
024	206.9901	COMPOST FILTER SOCK - 8 INCH	LF			
		DIAMETER				
		DIVISION STREET				
		106+83 LT - 112+08 LT		342.00	0004	01

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Item No.	Item Code	Description	UM	Qty.	Pay Code	Seq. No.
024	206.9901	Cont.				
		106+83 RT - 112+08 RT		286.00	0004	01
		112+08 RT - 112+77 RT		69.00	0004	01
		115+33 RT		137.00	0004	01
Item 206.9901 Total:				834.00		
025	209.9901	INLET SEDIMENT CONTROL DEVICE	LF			
		DIVISION STREET				
		EXISTING BASINS			0004	01
		PROPOSED BASINS			0004	01
Item 209.9901 Total:					**DELETED**	
026	212.2000	CLEANING AND MAINTENANCE OF	LS			
		EROSION CONTROLS				
		DIVISION STREET				
		AS REQUIRED		1.00	0004	01
Item 212.2000 Total:				1.00		
027	302.0100	GRAVEL BORROW SUBBASE COURSE	CY			
		DIVISION STREET				
		106+84 - 112+08		1,258.00	0004	01
		112+08 - 116+50		413.00	0004	01
		TAKEN FROM CODE 905.0110		103.00	0004	01
Item 302.0100 Total:				1,774.00		
028	401.9901	CLASS 19	TON			
		DIVISION STREET				
		106+84 - 112+08		1,410.00	0004	01
		112+08 - 116+50		463.00	0004	01
Item 401.9901 Total:				1,873.00		
029	401.9902	MODIFIED CLASS 12.5	TON			
		DIVISION STREET				
		106+84 - 112+08		488.00	0004	01

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Item No.	Item Code	Description	UM	Qty.	Pay Code	Seq. No.
029	401.9902 Cont.	112+08 - 116+50		161.00	0004	01
		114+50 - 118+02		257.00	0004	01
Item 401.9902 Total:				906.00		
030	401.9903	CLASS 12.5	TON			
		DIVISION STREET				
		CONSTRUCTION PHASE 1		132.00	0004	01
		CONSTRUCTION PHASE 2		218.00	0004	01
		CONSTRUCTION PHASE 3		19.00	0004	01
		TEMPORARY PATCHING AS REQUIRED		60.00	0004	01
Item 401.9903 Total:				429.00		
031	403.0300	ASPHALT EMULSION TACK COAT	SY			
		DIVISION STREET				
		106+84 - 112+08		3,773.00	0004	01
		112+08 - 116+50		1,239.00	0004	01
		114+50 - 118+02		1,986.00	0004	01
Item 403.0300 Total:				6,998.00		
032	701.0512	REINFORCED CONCRETE PIPE M 170	LF			
		CLASS IV 12 INCH				
		DIVISION STREET				
		107+61 RT - 107+77 RT		22.00	0004	01
		107+77 RT - 107+84 RT		12.00	0004	01
		107+84 RT - 108+55 RT		79.00	0004	01
		108+52 LT - 108+60 LT		29.00	0004	01
		108+55 RT - 108+70 RT		39.00	0004	01
		108+60 LT - 108+79 LT		38.00	0004	01
		108+79 LT - 109+25 LT		44.00	0004	01
		109+22 LT - 109+58 LT		44.00	0004	01
		109+25 LT - 109+40 LT		14.00	0004	01
		111+31 LT		2.00	0004	01

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Item No.	Item Code	Description	UM	Qty.	Pay Code	Seq. No.
032	701.0512 Cont.	111+31 LT - 112+08 LT			0004	01
		111+36 RT - 112+08 RT		73.00	0004	01
		112+08 LT - 112+81 LT			0004	01
		112+08 RT - 113+57 RT		146.00	0004	01
		112+81 LT - 114+45 LT		162.00	0004	01
		113+57 RT		10.00	0004	01
		115+34 RT		10.00	0004	01
Item 701.0512 Total:				724.00		
033	701.0518	REINFORCED CONCRETE PIPE M 170	LF			
		CLASS IV 18 INCH				
		DIVISION STREET				
		108+55 RT - 109+00 RT		50.00	0004	01
		113+57 RT - 115+33 RT		175.00	0004	01
		115+33 RT - 115+90 RT		52.00	0004	01
		115+35 RT		5.00	0004	01
		115+90 RT		11.00	0004	01
Item 701.0518 Total:				293.00		
034	701.0530	REINFORCED CONCRETE PIPE M 170	LF			
		CLASS IV 30 INCH				
		DIVISION STREET				
		107+77 LT - 109+22 LT		144.00	0004	01
		109+22 LT - 111+29 LT		204.00	0004	01
Item 701.0530 Total:				348.00		
035	701.0548	REINFORCED CONCRETE PIPE M 170	LF			
		CLASS IV 48 INCH				
		DIVISION STREET				
		109+00 RT - 111+28 RT		225.00	0004	01
		111+28 RT - 113+56 RT		225.00	0004	01
Item 701.0548 Total:				450.00		

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Item No.	Item Code	Description	UM	Qty.	Pay Code	Seq. No.
036	701.7712	12 INCH REINFORCED CONCRETE PIPE	EACH			
		END SECTION STANDARD 2.3.0				
		DIVISION STREET				
		109+40 LT		1.00	0004	01
		Item 701.7712 Total:		1.00		
037	701.7718	18 INCH REINFORCED CONCRETE PIPE	EACH			
		END SECTION STANDARD 2.3.0				
		DIVISION STREET				
		115+34 RT		1.00	0004	01
		Item 701.7718 Total:		1.00		
038	701.9901	REMOVE AND DISPOSE HYDRANT AND	EACH			
		REPAIR 12" ASBESTOS CEMENT WATER				
		MAIN				
		DIVISION STREET				
		108+26 LT		1.00	0004	01
		110+96 RT		1.00	0004	01
		114+58 LT		1.00	0004	01
		Item 701.9901 Total:		3.00		
039	701.9902	KENT COUNTY WATER AUTHORITY POST	EACH			
		TYPE HYDRANT				
		DIVISION STREET				
		107+51 RT		1.00	0004	01
		112+05 RT		1.00	0004	01
		Item 701.9902 Total:		2.00		
040	701.9903	REMOVE AND DISPOSE 12" DUCTILE	EACH			
		IRON WATER SERVICE AND REPAIR 16"				
		DUCTILE IRON WATER MAIN				
		DIVISION STREET				
		108+86 RT		1.00	0004	01

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Item No.	Item Code	Description	UM	Qty.	Pay Code	Seq. No.
040	701.9903	Cont.				
				Item 701.9903 Total:	1.00	
041	701.9904	REMOVE AND DISPOSE HYDRANT AND REPAIR 16" DUCTILE IRON WATER MAIN DIVISION STREET 111+55 LT	EACH	1.00	0004	01
				Item 701.9904 Total:	1.00	
042	702.0512	FRAME AND GRATE STANDARD 6.3.0 DIVISION STREET 107+78 RT	EACH	1.00	0004	01
				Item 702.0512 Total:	1.00	
043	702.0517	FRAME AND GRATE, STANDARD 6.3.2 DIVISION STREET 107+61 RT 107+85 RT 108+51 LT 108+59 LT 108+70 RT 108+79 LT 109+25 LT 109+58 LT 111+31 LT 111+36 RT 112+81 LT 113+57 RT 115+33 RT	EACH	1.00	0004	01
				Item 702.0517 Total:	13.00	
044	702.0522	FRAME AND COVER STANDARD 6.2.1 DIVISION STREET 107+77 LT	EACH	1.00	0004	01

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Item No.	Item Code	Description	UM	Qty.	Pay Code	Seq. No.
044	702.0522	Cont.				
		108+55 RT		1.00	0004	01
		109+00 RT		1.00	0004	01
		109+22 LT		1.00	0004	01
		111+29 RT		1.00	0004	01
		113+57 RT		1.00	0004	01
		115+33 RT		1.00	0004	01
		115+90 RT		1.00	0004	01
Item 702.0522 Total:				8.00		
045	702.0533	PRECAST CONCRETE APRON STONE 38''	EACH			
		STANDARD 7.1.8				
		DIVISION STREET				
		107+61 RT		1.00	0004	01
		107+85 RT		1.00	0004	01
		108+51 LT		1.00	0004	01
		108+59 LT		1.00	0004	01
		108+70 RT		1.00	0004	01
		108+79 LT		1.00	0004	01
		109+25 LT		1.00	0004	01
		109+58 LT		1.00	0004	01
		111+31 LT		1.00	0004	01
		111+36 RT		1.00	0004	01
		112+81 LT		1.00	0004	01
		113+57 RT		1.00	0004	01
		115+33 RT		1.00	0004	01
Item 702.0533 Total:				13.00		
046	702.0605	PRECAST CATCH BASIN 4' DIAMETER	EACH			
		STANDARD 4.4.0				
		DIVISION STREET				
		107+77 RT		1.00	0004	01
		108+51 LT		1.00	0004	01
		108+59 LT		1.00	0004	01

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Item No.	Item Code	Description	UM	Qty.	Pay Code	Seq. No.
046	702.0605 Cont.	108+70 RT		1.00	0004	01
		108+79 LT		1.00	0004	01
		109+25 LT		1.00	0004	01
		109+58 LT		1.00	0004	01
		111+31 LT		1.00	0004	01
		112+81 LT		1.00	0004	01
		115+33 RT		1.00	0004	01
Item 702.0605 Total:				10.00		
047	702.0615	PRECAST CATCH BASIN 6' DIAMETER STANDARD 4.4.0 DIVISION STREET 107+85 RT	EACH	1.00	0004	01
Item 702.0615 Total:				1.00		
048	702.0630	PRECAST MANHOLE 4' DIAMETER STANDARD 4.2.0 DIVISION STREET 115+90 RT	EACH	1.00	0004	01
Item 702.0630 Total:				1.00		
049	702.0640	PRECAST MANHOLE 6' DIAMETER STANDARD 4.2.2 DIVISION STREET 107+77 LT 108+55 RT 113+57 RT 115+33 RT	EACH	1.00	0004	01
Item 702.0640 Total:				4.00		
050	702.0650	PRECAST MANHOLE 6' SQUARE STANDARD 4.3.0 DIVISION STREET	EACH			

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Item No.	Item Code	Description	UM	Qty.	Pay Code	Seq. No.
050	702.0650	Cont.				
		109+00 RT		1.00	0004	01
		109+22 LT		1.00	0004	01
		111+29 RT		1.00	0004	01
Item 702.0650 Total:				3.00		
051	702.0705	CATCH BASIN W/GUTTER INLET	EACH			
		STANDARD 3.4.1				
		DIVISION STREET				
		111+36 RT		1.00	0004	01
Item 702.0705 Total:				1.00		
052	702.0713	PRECAST CONCRETE DROP INLET WITH	EACH			
		APRON STONE STANDARD 4.5.1				
		DIVISION STREET				
		113+57		1.00	0004	01
Item 702.0713 Total:				1.00		
053	702.0714	PRECAST CONCRETE DROP INLET WITH	EACH			
		APRON STONE STANDARD 4.5.2				
		DIVISION STREET				
		107+61 RT		1.00	0004	01
Item 702.0714 Total:				1.00		
054	702.9901	OUTLET CONTROL STRUCTURE NO. 1	EACH			
		DIVISION STREET				
		111+29 LT		1.00	0004	01
Item 702.9901 Total:				1.00		
055	702.9902	OUTLET CONTROL STRUCTURE NO. 2	EACH			
		DIVISION STREET				
		113+56 RT		1.00	0004	01
Item 702.9902 Total:				1.00		

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Item No.	Item Code	Description	UM	Qty.	Pay Code	Seq. No.
056	707.1000	ADJUST SANITARY MANHOLE	EACH			
		DIVISION STREET				
		109+35 RT		2.00	0004	01
Item 707.1000 Total:				2.00		
057	707.1100	ADJUST CATCH BASINS	EACH			
		DIVISION STREET				
		114+45 LT		2.00	0004	01
		115+28 LT		2.00	0004	01
		115+90 LT		2.00	0004	01
		115+90 RT		2.00	0004	01
		117+97 RT		2.00	0004	01
Item 707.1100 Total:				10.00		
058	708.9040	CLEANING AND FLUSHING PIPE ALL SIZES	LF			
		DIVISION STREET				
		114+45 LT - 115+28 LT		83.00	0004	01
		115+28 LT - 115+89 LT		61.00	0004	01
		115+89		47.00	0004	01
		115+89 RT - 117+97 RT		207.00	0004	01
Item 708.9040 Total:				398.00		
059	708.9041	CLEANING CATCH BASINS ALL TYPES AND SIZES	EACH			
		DIVISION STREET				
		114+45 LT		1.00	0004	01
		115+28 LT		1.00	0004	01
		115+89 LT		1.00	0004	01
		115+90 RT		1.00	0004	01
		117+97 RT		1.00	0004	01
Item 708.9041 Total:				5.00		

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Item No.	Item Code	Description	UM	Qty.	Pay Code	Seq. No.
060	713.8269	ADJUST WATER GATE BOXES TO GRADE	EACH			
		DIVISION STREET				
		107+38 LT		2.00	0004	01
		108+81 RT		2.00	0004	01
		111+55 LT		2.00	0004	01
		114+84 LT		2.00	0004	01
		114+86 RT		2.00	0004	01
		114+89 RT		2.00	0004	01
		114+91 RT		2.00	0004	01
		116+48 RT		2.00	0004	01
		116+59 RT		2.00	0004	01
				Item 713.8269 Total:		18.00
061	713.8300	ADJUST GAS GATE BOXES TO GRADE	EACH			
		DIVISION STREET				
		111+99 RT		2.00	0004	01
		114+92 RT		2.00	0004	01
		118+00 RT		4.00	0004	01
				Item 713.8300 Total:		8.00
062	903.0206	CHAIN LINK FENCE 6' STD 31.2.0	LF			
		DIVISION STREET				
		109+70 - 112+17 RT		285.00	0004	01
		112+17 - 116+57 RT		450.00	0004	01
				Item 903.0206 Total:		735.00
063	904.0100	REMOVE AND RESET FENCE AND/OR RAILING	LF			
		DIVISION STREET				
		109+70 RT - 110+35 RT			0004	01
				Item 904.0100 Total:		**DELETED**
064	904.9901	BRICK PAVERS CROSSWALK	SF			

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Item No.	Item Code	Description	UM	Qty.	Pay Code	Seq. No.
064	904.9901 Cont.	DIVISION STREET				
		107+88 - 108+20		504.00	0031	02
		108+71 RT - 109+42 RT		483.00	0031	02
		109+87 - 110+10		518.00	0031	02
Item 904.9901 Total:				1,505.00		
065	904.9902	CONCRETE PAVER APRONS IN SPLITTER ISLANDS	SF			
		DIVISION STREET				
		107+23 - 108+49		952.00	0031	02
		108+88 - 109+21		272.00	0031	02
		109+67 - 110+31		526.00	0031	02
Item 904.9902 Total:				1,750.00		
066	905.0110	PORTLAND CEMENT SIDEWALK MONOLITHIC STANDARD 43.1.0	CY			
		DIVISION STREET				
		106+84 RT - 108+80 RT		19.00	0004	01
		107+98 LT - 108+13 LT		1.00	0004	01
		108+95 RT - 109+09 RT		3.00	0004	01
		109+35 RT - 112+08 RT		23.00	0004	01
		109+94 LT - 110+10 LT		1.00	0004	01
		112+08 RT - 116+72 RT		29.00	0004	01
Item 905.0110 Total:				76.00		
067	905.9901	PORTLAND CEMENT CONCRETE TRUCK APRON WITH EXPOSED AGGREGATE FINISH	CY			
		DIVISION STREET				
		108+51 - 109+51		47.00	0004	01
Item 905.9901 Total:				47.00		
068	905.9904	REMOVE AND RESET BRICK PAVERS	SY			
		DIVISION STREET				

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068	905.9904 Cont.	108+88 LT - 109+21 LT		32.00	0004	01
				Item 905.9904 Total:	32.00	
069	906.0111	GRANITE CURB, QUARRY SPLIT	LF			
		CIRCULAR, STANDARD 7.3.0				
		DIVISION STREET				
		108+60 - 109+45		261.00	0004	01
				Item 906.0111 Total:	261.00	
070	906.0210	CEMENT CONCRETE CURB PRECAST	LF			
		STRAIGHT STANDARD 7.1.0				
		DIVISION STREET				
		106+84 RT - 107+58 RT		74.00	0004	01
		106+90 LT - 108+53 LT		153.00	0004	01
		107+22 - 108+44		217.00	0004	01
		108+09 RT - 108+47 RT		46.00	0004	01
		108+56 RT - 108+83 RT		84.00	0004	01
		108+67 LT - 108+75 LT		40.00	0004	01
		108+88 RT - 109+20 RT		119.00	0004	01
		108+93 LT - 109+05 LT		57.00	0004	01
		109+20 LT - 109+30 LT		49.00	0004	01
		109+35 RT		20.00	0004	01
		109+46 RT - 109+57 RT		23.00	0004	01
		109+59 LT - 109+87 LT		29.00	0004	01
		109+61 - 110+31		85.00	0004	01
		109+90 RT - 112+08 RT		208.00	0004	01
		110+42 LT - 112+08 LT		167.00	0004	01
		112+08 LT - 112+85 LT		77.00	0004	01
		112+08 RT - 116+50 RT		442.00	0004	01
				Item 906.0210 Total:	1,890.00	
071	906.0211	CEMENT CONCRETE CURB PRECAST	LF			
		CIRCULAR STANDARD 7.1.0				

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071	906.0211 Cont.	DIVISION STREET				
		107+22 - 108+44		147.00	0004	01
		107+58 RT - 108+09 RT		42.00	0004	01
		108+47 RT - 108+56 RT		12.00	0004	01
		108+51 LT - 108+67 LT		56.00	0004	01
		108+53 LT - 108+75 LT		90.00	0004	01
		108+88 RT - 109+20 RT		64.00	0004	01
		108+93 LT - 109+05 LT		90.00	0004	01
		109+30 LT - 109+59 LT		45.00	0004	01
		109+35 RT - 109+46 RT		27.00	0004	01
		109+57 RT - 109+90 RT		49.00	0004	01
		109+61 - 110+31		92.00	0004	01
		109+87 LT - 110+42 LT		41.00	0004	01
		116+50 RT - 116+64 RT		15.00	0004	01
Item 906.0211 Total:				770.00		
072	906.0221	6' PRECAST CONCRETE TRANSITION	EACH			
		CURB STANDARD 7.1.2				
		DIVISION STREET				
		106+87 LT		1.00	0004	01
		116+71 RT		1.00	0004	01
Item 906.0221 Total:				2.00		
073	906.0250	PRECAST CONCRETE WHEELCHAIR RAMP	EACH			
		CURB STANDARDS 7.1.3, 43.3.0 AND				
		43.3.1				
		DIVISION STREET				
		107+92 RT		2.00	0004	01
		108+06 LT		2.00	0004	01
		108+74 RT		2.00	0004	01
		109+42 RT		2.00	0004	01
		110+02 LT		2.00	0004	01
		110+07 RT		2.00	0004	01

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Item No.	Item Code	Description	UM	Qty.	Pay Code	Seq. No.
073	906.0250	Cont.				
				Item 906.0250 Total:	12.00	
074	906.0260	PRECAST CONCRETE RAMP STONE	EACH			
		12-INCH STRAIGHT STANDARD 7.1.9				
		DIVISION STREET				
		108+06 LT		1.00	0004	01
		108+74 RT		1.00	0004	01
		110+07 RT		1.00	0004	01
				Item 906.0260 Total:	3.00	
075	906.0261	PRECAST CONCRETE RAMP STONE	EACH			
		12-INCH CIRCULAR STANDARD 7.1.9				
		DIVISION STREET				
		107+92 RT		1.00	0004	01
		109+42 RT		1.00	0004	01
		110+02 LT		1.00	0004	01
				Item 906.0261 Total:	3.00	
076	906.9903	MOUNTABLE PRECAST CONCRETE CURB	LF			
		DIVISION STREET				
		108+51 - 109+51		329.00	0004	01
				Item 906.9903 Total:	329.00	
077	907.0100	WATER FOR DUST CONTROL	MGAL			
		DIVISION STREET				
		106+83 - 112+08		20.00	0004	01
				Item 907.0100 Total:	20.00	
078	914.5010	FLAGPERSONS	MHRS			
		DIVISION STREET				
		AS REQUIRED		2,112.00	0004	01
				Item 914.5010 Total:	2,112.00	

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Item No.	Item Code	Description	UM	Qty.	Pay Code	Seq. No.
079	914.5020	FLAGPERSONS - OVERTIME	MHRS			
		DIVISION STREET				
		10% OF ITEM CODE 914.5010		211.00	0004	01
Item 914.5020 Total:				211.00		
080	915.0200	HIGHWAY BOUNDS REINFORCED CONCRETE	EACH			
		STANDARD 14.1.0				
		DIVISION STREET				
		109+84 LT		1.00	0004	01
Item 915.0200 Total:				1.00		
081	919.0101	TEST PITS	EACH			
		DIVISION STREET				
		AS REQUIRED		10.00	0004	01
Item 919.0101 Total:				10.00		
082	920.0055	PLACED STONE RIPRAP R-3, R-4, R-5	SY			
		STANDARD 8.3.0				
		DIVISION STREET				
		109+41 LT - 109+49 LT		7.00	0004	01
		115+26 RT - 115+40 RT		17.00	0004	01
Item 920.0055 Total:				24.00		
083	920.0085	PLACED STONE RIPRAP R-3, R-4, R-5	CY			
		STANDARD 8.3.0				
		DIVISION STREET				
		109+62 LT - 109+74 LT		5.00	0004	01
Item 920.0085 Total:				5.00		
084	920.0135	BEDDING FOR RIPRAP FS-2 STANDARD	SY			
		8.3.0				
		DIVISION STREET				
		109+41 LT - 109+49 LT		7.00	0004	01

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Item No.	Item Code	Description	UM	Qty.	Pay Code	Seq. No.
084	920.0135 Cont.	109+62 LT - 109+74 LT		6.00	0004	01
		115+26 RT - 115+40 RT		17.00	0004	01
Item 920.0135 Total:				30.00		
085	920.0200	FILTER FABRIC FOR RIP-RAP	SY			
		DIVISION STREET				
		109+41 LT - 109+49 LT		7.00	0004	01
		109+62 LT - 109+74 LT		6.00	0004	01
		115+26 RT - 115+40 RT		17.00	0004	01
Item 920.0200 Total:				30.00		
086	920.9902	IMPERVIOUS GEOMEMBRANE	SY			
		DIVISION STREET				
		FROM ITEM CODE 920.0200			0004	01
Item 920.9902 Total:				**DELETED**		
087	922.0100	TEMPORARY CONSTRUCTION SIGNS	SF			
		STANDARD 29.1.0 AND 27.1.1				
		DIVISION STREET				
		G20-2 (36"X18") X 2 EACH		9.00	0004	01
		NEIT ACCESS SIGNS (48"X48")		96.00	0004	01
		X 6 EACH				
		RI STD. 27.1.1 (24"X36") X 2		12.00	0004	01
		EACH				
		W20-1 (36"X36") X 4 EACH		36.00	0004	01
		W20-3 (36"X36") X 1 EACH		9.00	0004	01
		W20-4 (36"X36") X 2 EACH		18.00	0004	01
		W20-5(LT & RT) (36"X36") X 2		18.00	0004	01
		EACH				
		W20-7A (36"X36") X 2 EACH		18.00	0004	01
		Z: MISCELLANEOUS		24.00	0004	01
Item 922.0100 Total:				240.00		

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Item No.	Item Code	Description	UM	Qty.	Pay Code	Seq. No.
088	923.0105	DRUM BARRICADE STANDARD 26.2.0	BDAY			
		DIVISION STREET				
		AS REQUIRED		7,440.00	0004	01
		CONSTRUCTION PHASE 1		6,750.00	0004	01
		CONSTRUCTION PHASE 2		5,670.00	0004	01
		CONSTRUCTION PHASE 3		5,640.00	0004	01
		CONSTRUCTION PHASE 4		5,640.00	0004	01
		MISCELLANEOUS		11,850.00	0004	01
		Item 923.0105 Total:		42,990.00		
089	923.0120	PLASTIC PIPE BARRICADE STANDARD 26.3.0	EACH			
		DIVISION STREET				
		AS REQUIRED		10.00	0004	01
		Item 923.0120 Total:		10.00		
090	923.0200	FLUORESCENT TRAFFIC CONES STANDARD 26.1.0	EACH			
		DIVISION STREET				
		AS REQUIRED		300.00	0004	01
		Item 923.0200 Total:		300.00		
091	929.0110	FIELD OFFICE	PMO			
		DIVISION STREET				
		ON SITE		12.00	0017	03
		Item 929.0110 Total:		12.00		
092	931.0110	CLEANING AND SWEEPING PAVEMENT	HSY			
		DIVISION STREET				
		TAKEN FROM CODE 401.0200		70.00	0004	01
		Item 931.0110 Total:		70.00		
093	932.0100	CUTTING AND MATCHING ASPHALT	LF			

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Item No.	Item Code	Description	UM	Qty.	Pay Code	Seq. No.
093	932.0100 Cont.	DIVISION STREET				
		106+84		32.00	0004	01
		108+80 LT - 108+93 LT		15.00	0004	01
		108+83 RT - 109+03 RT		24.00	0004	01
		109+05 LT - 109+20 LT		16.00	0004	01
		109+10 RT - 109+35 RT		24.00	0004	01
		112+94 LT - 113+45 LT		51.00	0004	01
		114+50		42.00	0004	01
		114+67 LT - 115+22 LT		55.00	0004	01
		115+40 LT - 115+84 LT		43.00	0004	01
		116+72 RT - 116+99 RT		28.00	0004	01
		118+02		63.00	0004	01
Item 932.0100 Total:				393.00		
094	932.0210	FULL DEPTH SAWCUT OF BITUMINOUS PAVEMENT AND RIGID BASE	LF			
		DIVISION STREET				
		108+50 LT - 108+78 LT		104.00	0004	01
		114+50 RT - 116+71 RT		221.00	0004	01
		117+31 LT - 117+82 LT		51.00	0004	01
Item 932.0210 Total:				376.00		
095	932.0230	FULL DEPTH SAWCUT OF PORTLAND CEMENT CONCRETE SIDEWALK/DRIVEWAY	LF			
		DIVISION STREET				
		106+83 RT		5.00	0004	01
		109+07 RT		5.00	0004	01
Item 932.0230 Total:				10.00		
096	935.0400	REMOVING BITUMINOUS PAVEMENT BY MICRO MILLING	SY			
		DIVISION STREET				
		114+50 - 118+02		1,986.00	0004	01

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Item No.	Item Code	Description	UM	Qty.	Pay Code	Seq. No.
096	935.0400	Cont.				
				Item 935.0400 Total:	1,986.00	
097	936.0110	MOBILIZATION	LS			
		DIVISION STREET				
		AS REQUIRED		1.00	0004	01
				Item 936.0110 Total:	1.00	
098	937.0200	MAINTENANCE AND MOVEMENT TRAFFIC PROTECTION	LS			
		DIVISION STREET				
		AS REQUIRED		1.00	0004	01
				Item 937.0200 Total:	1.00	
099	942.9901	DETECTABLE WARNING PANEL	SF			
		DIVISION STREET				
		107+92 RT		8.00	0004	01
		108+06 LT		8.00	0004	01
		108+74 RT		8.00	0004	01
		109+42 RT		8.00	0004	01
		110+02 LT		8.00	0004	01
		110+07 RT		8.00	0004	01
				Item 942.9901 Total:	48.00	
100	943.0200	TRAINEE MAN-HOURS	MHRS			
		DIVISION STREET				
		AS REQUIRED		1,000.00	0004	01
				Item 943.0200 Total:	1,000.00	
101	L01.0104	PLANTABLE SOIL 4 INCHES DEEP	SY			
		DIVISION STREET				
		106+84 LT - 108+51 LT		195.00	0004	01
		106+84 RT - 107+80 RT		26.00	0004	01
		107+97 RT - 108+71 RT		38.00	0004	01

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Item No.	Item Code	Description	UM	Qty.	Pay Code	Seq. No.
101	L01.0104 Cont.	108+72 RT - 108+80 RT		14.00	0004	01
		109+21 LT - 112+08 LT		189.00	0004	01
		109+34 RT - 109+42 RT		11.00	0004	01
		109+42 RT - 110+00 RT		31.00	0004	01
		110+13 RT - 112+08 RT		66.00	0004	01
		112+08 LT - 112+85 LT		43.00	0004	01
		112+08 RT - 116+72 RT		154.00	0004	01
Item L01.0104 Total:				767.00		
102	L01.9901	PLANTING MIX	CY			
		DIVISION STREET				
		AS REQUIRED		48.00	0031	02
Item L01.9901 Total:				48.00		
103	L01.9902	LOAM FOR LANDSCAPED ISLAND	CY			
		DIVISION STREET				
		LANDCAPE DETAIL PLAN NO. 01		101.00	0004	01
Item L01.9902 Total:				101.00		
104	L02.0101	GENERAL HIGHWAY SEEDING (TYPE 1)	SY			
		DIVISION STREET				
		106+84 LT - 108+51 LT		195.00	0004	01
		106+84 RT - 107+80 RT		26.00	0004	01
		107+97 RT - 108+71 RT		38.00	0004	01
		108+72 RT - 108+80 RT		14.00	0004	01
		109+21 LT - 112+08 LT		189.00	0004	01
		109+34 RT - 109+42 RT		11.00	0004	01
		109+42 RT - 110+00 RT		31.00	0004	01
		110+13 RT - 112+08 RT		66.00	0004	01
		112+08 LT - 112+85 LT		43.00	0004	01
		112+08 RT - 116+72 RT		154.00	0004	01
Item L02.0101 Total:				767.00		

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Item No.	Item Code	Description	UM	Qty.	Pay Code	Seq. No.
S105	L06.9901	ACER RUBRUM "OCTOBER GLORY", 3"-3 1/2" CAL. - B&B DIVISION STREET	EACH			
		LANDSCAPE PLAN NO. 01		10.00	0031	02
		LANDSCAPE PLAN NO. 02		12.00	0031	02
Item L06.9901 Total:				22.00		
S106	L06.9904	HEMEROCALLIS "PARDON ME", 1 GAL. DIVISION STREET	EACH			
		LANDSCAPE DETAILS PLAN NO. 01		29.00	0031	02
Item L06.9904 Total:				29.00		
S107	L06.9905	JUNIPERUS CHINENSIS "SEAGREEN", 24" - 30" DIVISION STREET	EACH			
		LANDSCAPE DETAILS PLAN NO. 01		12.00	0031	02
Item L06.9905 Total:				12.00		
S108	L06.9906	MISCANTHUS "LITTLE KITTEN", 1 GAL. DIVISION STREET	EACH			
		LANDSCAPE DETAILS PLAN NO. 01		9.00	0031	02
Item L06.9906 Total:				9.00		
S109	L06.9907	NEPETA "WALKERS LOW", 1 GAL. DIVISION STREET	EACH			
		LANDSCAPE DETAILS PLAN NO. 01		40.00	0031	02
Item L06.9907 Total:				40.00		
S110	L06.9908	PANICUM "SHENANDOAH", 1 GAL. DIVISION STREET	EACH			
		LANDSCAPE DETAILS PLAN NO. 01		5.00	0031	02
Item L06.9908 Total:				5.00		

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Item No.	Item Code	Description	UM	Qty.	Pay Code	Seq. No.
S111	L06.9911	RUDBECKIA "GOLDSTRUM", 1 GAL.	EACH			
		DIVISION STREET				
		LANDSCAPE DETAILS PLAN NO. 01		65.00	0031	02
				Item L06.9911 Total:	65.00	
S112	L06.9912	SEDUM "AUTUMN FIRE", 1 GAL.	EACH			
		DIVISION STREET				
		LANDSCAPE DETAILS PLAN NO. 01		50.00	0031	02
				Item L06.9912 Total:	50.00	
S113	L06.9913	LIRIODENDROM TULIPIFERA, 3" - 3	EACH			
		1/2" CAL., B&B				
		DIVISION STREET				
		LANDSCAPE PLAN NO. 01		2.00	0004	01
		LANDSCAPE PLAN NO. 02		3.00	0004	01
				Item L06.9913 Total:	5.00	
S114	L06.9915	CALAMAGROSTIS "KARL FOERSTER", 1	EACH			
		GAL.				
		DIVISION STREET				
		LANDSCAPE DETAILS PLAN NO. 01		6.00	0031	02
				Item L06.9915 Total:	6.00	
S115	L06.9916	HEDERA HELIX "BALTICA", 3" POT	EACH			
		DIVISION STREET				
		LANDSCAPE PLAN NO. 01		2,650.00	0031	02
				Item L06.9916 Total:	2,650.00	
S116	L06.9917	PICEA PUNGENS "HOOPSI", 8'-10' -	EACH			
		B&B				
		DIVISION STREET				
		LANDSCAPE PLAN NO. 02		7.00	0031	02
				Item L06.9917 Total:	7.00	

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Item No.	Item Code	Description	UM	Qty.	Pay Code	Seq. No.
S117	L06.9918	QUERCUS ALBA, 2"-2 1/2" CAL. - B&B	EACH			
		DIVISION STREET				
		LANDSCAPE PLAN NO. 01		3.00	0031	02
				Item L06.9918 Total:	3.00	
S118	L06.9919	FAGUS SYLVATICA "ASPLENIFOLIA", 2	EACH			
		1/2" - 3", B&B				
		DIVISION STREET				
		LANDSCAPE PLAN NO. 01		8.00	0031	02
				Item L06.9919 Total:	8.00	
S119	L15.9901	NEW IRRIGATION SYSTEM	LS			
		DIVISION STREET				
		AMTROL PROPERTY		1.00	0004	01
				Item L15.9901 Total:	1.00	
S120	T04.6902	'2' STRANDED COPPER CONDUCTOR 600V	LF			
		INSULATION				
		DIVISION STREET				
		BRANCH A		1,440.00	0004	01
		BRANCH B		1,760.00	0004	01
		BRANCH C		1,140.00	0004	01
				Item T04.6902 Total:	4,340.00	
S121	T04.6906	'6' STRANDED COPPER CONDUCTOR 600V	LF			
		INSULATION				
		DIVISION STREET				
		BRANCH A		480.00	0004	01
		BRANCH B		660.00	0004	01
		BRANCH C		380.00	0004	01
				Item T04.6906 Total:	1,520.00	
S122	T04.7300	IN-LINE FUSED DISCONNECT DEVICE	EACH			

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Item No.	Item Code	Description	UM	Qty.	Pay Code	Seq. No.
S122	T04.7300	Cont. WITH FUSE WEATHERPROOF				
		DIVISION STREET				
		AS REQUIRED		13.00	0004	01
				Item T04.7300 Total:	13.00	
S123	T04.7400	IN-LINE UNFUSED DISCONNECT DEVICE	EACH			
		DIVISION STREET				
		AS REQUIRED		13.00	0004	01
				Item T04.7400 Total:	13.00	
S124	T04.9901	2, 3 AND 4 WAY PREMOLDED SPLICES	EACH			
		DIVISION STREET				
		AS REQUIRED		75.00	0004	01
				Item T04.9901 Total:	75.00	
S125	T05.0100	PRECAST TYPE A HANDHOLE STANDARD	EACH			
		18.2.0				
		DIVISION STREET				
		107+94 - 108+22 LT & RT		4.00	0004	01
		108+70 - 109+45 RT		4.00	0004	01
		109+80 - 110+15 LT & RT		4.00	0004	01
		AS REQUIRED		15.00	0004	01
				Item T05.0100 Total:	27.00	
S126	T05.1030	ADJUST HANDHOLE TO GRADE	EACH			
		DIVISION STREET				
		109+08 LT		1.00	0004	01
				Item T05.1030 Total:	1.00	
S127	T06.1015	1-1/2 IN. RIGID STEEL CONDUIT -	LF			
		UNDERGROUND				
		DIVISION STREET				
		HH TO FOUNDATION		150.00	0004	01

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Item No.	Item Code	Description	UM	Qty.	Pay Code	Seq. No.
S127	T06.1015	Cont.				
				Item T06.1015 Total:	150.00	
S128	T06.5120	2 INCH SCHEDULE 40 POLYVINYL CHLORIDE PLASTIC CONDUIT - UNDERGROUND DIVISION STREET AS REQUIRED	LF			
					1,020.00	0004 01
				Item T06.5120 Total:	1,020.00	
S129	T06.5230	3 INCH SCHEDULE 80 POLYVINYL CHLORIDE PLASTIC CONDUIT - UNDERGROUND DIVISION STREET PEDESTAL TO HH 1	LF			
					20.00	0004 01
				Item T06.5230 Total:	20.00	
S130	T06.5420	2 INCH SCHEDULE 80 POLYVINYL CHLORIDE PLASTIC CONDUIT - UNDER EXISTING PAVEMENT DIVISION STREET AS REQUIRED	LF			
					320.00	0004 01
				Item T06.5420 Total:	320.00	
S131	T06.5430	3 INCH SCHEDULE 80 POLYVINYL CHLORIDE PLASTIC CONDUIT - UNDER EXISTING PAVEMENT DIVISION STREET 107+94 - 108+22 LT & RT 108+70 RT - 109+45 RT 109+80 RT - 110+15 LT	LF			
					86.00	0004 01
					84.00	0004 01
					94.00	0004 01
				Item T06.5430 Total:	264.00	
S132	T06.9902	SECONDARY SERVICE RISER	EACH			

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Item No.	Item Code	Description	UM	Qty.	Pay Code	Seq. No.
S132	T06.9902 Cont.	DIVISION STREET				
		110+10		1.00	0004	01
Item T06.9902 Total:				1.00		
S133	T07.9901	ORNAMENTAL POLE/LUMINAIRE TYPE A	EACH			
		DIVISION STREET				
		AS REQUIRED		12.00	0004	01
Item T07.9901 Total:				12.00		
S134	T07.9902	ORNAMENTAL POLE/LUMINAIRE TYPE B	EACH			
		DIVISION STREET				
		AS REQUIRED		1.00	0004	01
Item T07.9902 Total:				1.00		
S135	T07.9903	ORNAMENTAL POLE FOUNDATION	EACH			
		W/ANCHORING BOLTS				
		DIVISION STREET				
		AS REQUIRED		13.00	0004	01
Item T07.9903 Total:				13.00		
136	T07.9904	MONUMENT SIGN LIGHTING	EACH			
		DIVISION STREET				
		108+48 LT		1.00	0004	01
		109+45 LT		1.00	0004	01
Item T07.9904 Total:				2.00		
S137	T09.9901	SERVICE PEDESTAL	EACH			
		DIVISION STREET				
		110+15		1.00	0004	01
Item T09.9901 Total:				1.00		
S138	T13.1000	TRAFFIC DETECTORS-LOOP, STANDARD	LF			
		19.6.0				

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Item No.	Item Code	Description	UM	Qty.	Pay Code	Seq. No.
S138	T13.1000 Cont.	DIVISION STREET				
		117+85		363.00	0004	01
Item T13.1000 Total:				363.00		
S139	T15.0100	DIRECTIONAL REGULATORY AND WARNING SIGNS	SF			
		DIVISION STREET				
		SIGN NO. 01-01/W2-6/30"X30"		6.25	0004	01
		SIGN NO. 01-02A/W11-2/30"X30"		6.25	0004	01
		SIGN NO. 01-02B/W16-7P(L)/24"X12"		2.00	0004	01
		SIGN NO. 01-03/R1-2/36"X36"		9.00	0004	01
		SIGN NO. 01-04/R4-7/24"X30"		5.00	0004	01
		SIGN NO. 01-05A/W11-2/30"X30"		6.25	0004	01
		SIGN NO. 01-05B/W16-7P(L)/24"X12"		2.00	0004	01
		SIGN NO. 01-06/R1-2/36"X36"		9.00	0004	01
		SIGN NO. 01-07A/W11-2/30"X30"		6.25	0004	01
		SIGN NO. 01-07B/W16-7P(L)/24"X12"		2.00	0004	01
		SIGN NO. 01-08/R1-2/36"X36"		9.00	0004	01
		SIGN NO. 01-09/R1-2/36"X36"		9.00	0004	01
		SIGN NO. 01-10A/W11-2/30"X30"		6.25	0004	01
		SIGN NO. 01-10B/W16-7P(L)/24"X12"		2.00	0004	01
		SIGN NO. 01-11/R4-7/24"X30"		5.00	0004	01
		SIGN NO. 01-12/R1-2/36"X36"		9.00	0004	01
		SIGN NO. 01-13A/W11-2/30"X30"		6.25	0004	01
		SIGN NO. 01-13B/W16-7P(L)/24"X12"		2.00	0004	01
		SIGN NO. 01-14A/W11-2/30"X30"		6.25	0004	01
		SIGN NO. 01-14B/W16-7P(L)/24"X12"		2.00	0004	01

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Item No.	Item Code	Description	UM	Qty.	Pay Code	Seq. No.
S139	T15.0100	Cont.				
		SIGN NO. 01-15/R1-2/36"X36"		9.00	0004	01
		SIGN NO. 01-16/R6-4/36"X24"		6.00	0004	01
		SIGN NO. 01-17/R6-4/36"X24"		6.00	0004	01
		SIGN NO. 01-18/R6-4/36"X24"		6.00	0004	01
		SIGN NO. 01-19/R6-4/36"X24"		6.00	0004	01
		SIGN NO. 02-01/R3-7L/30"X30"		6.25	0004	01
		SIGN NO. 02-02/R3-7R/30"X30"		6.25	0004	01
		SIGN NO. 03-03/W2-6/30"X30"		6.25	0004	01
		SIGN NO. T1-1/R11-2/30"X48"		40.00	0004	01
		- 4 EACH				
		Z: MISCELLANEOUS		0.50	0004	01
Item T15.0100 Total:				203.00		
S140	T20.1000	REMOVE EXISTING PAVEMENT MARKINGS	LF			
		DIVISION STREET				
		117+90 LT - 118+12 LT		42.00	0004	01
		117+90 RT - 118+12 RT		43.00	0004	01
		118+12		46.00	0004	01
		CONSTRUCTION PHASE 1		1,620.00	0004	01
		CONSTRUCTION PHASE 2		3,000.00	0004	01
		CONSTRUCTION PHASE 3		3,000.00	0004	01
		CONSTRUCTION PHASE 4		1,500.00	0004	01
		MISCELLANEOUS		1,000.00	0004	01
Item T20.1000 Total:				10,251.00		
S141	T20.2006	6 INCH EPOXY RESIN PAVEMENT	LF			
		MARKINGS WHITE				
		DIVISION STREET				
		104+82 LT - 105+58 LT		76.00	0004	01
		105+58 LT - 108+02 LT		247.00	0004	01
		106+32 RT - 107+88 RT		156.00	0004	01
		107+97 RT - 108+76 RT		121.00	0004	01
		108+11 LT - 108+64 LT		328.00	0004	01

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Item No.	Item Code	Description	UM	Qty.	Pay Code	Seq. No.
S141	T20.2006 Cont.	108+38 RT - 108+52 LT		73.00	0004	01
		108+38 RT - 108+53 RT		16.00	0004	01
		108+61 LT - 108+84 LT		14.00	0004	01
		108+75 LT - 109+13 LT		38.00	0004	01
		108+78 RT - 108+83 RT		126.00	0004	01
		108+80 RT - 109+22 RT		44.00	0004	01
		108+84 LT - 109+21 LT		37.00	0004	01
		108+91 RT		20.00	0004	01
		109+13 LT - 109+43 LT		20.00	0004	01
		109+19 LT - 109+97 LT		141.00	0004	01
		109+20 RT - 109+69 RT		28.00	0004	01
		109+22 RT		83.00	0004	01
		109+27 RT - 109+42 RT		36.00	0004	01
		109+33 RT		42.00	0004	01
		109+36 RT - 109+38 RT		34.00	0004	01
		109+40 RT - 110+00 RT		99.00	0004	01
		109+42 LT - 109+64 LT		26.00	0004	01
		109+54 RT - 109+64 LT		60.00	0004	01
		109+57 RT - 109+93 RT		39.00	0004	01
		109+59 RT - 109+92 RT		36.00	0004	01
		110+02 LT - 110+43 LT		82.00	0004	01
		110+06 LT - 112+09 LT		203.00	0004	01
		110+10 RT - 112+09 RT		202.00	0004	01
		110+67 LT - 111+17 LT		20.00	0004	01
		111+25 RT - 112+09 RT		24.00	0004	01
		112+09 LT - 112+86 LT		78.00	0004	01
		112+09 RT - 115+75 RT		96.00	0004	01
		112+09 RT - 117+90 RT		580.00	0004	01
		113+14 LT - 115+36 LT		112.00	0004	01
		113+58 LT - 114+60 LT		102.00	0004	01
		115+19 LT - 115+44 LT		25.00	0004	01
		115+36 RT - 117+90 RT		254.00	0004	01
		115+92 LT - 117+80 LT		238.00	0004	01

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Item No.	Item Code	Description	UM	Qty.	Pay Code	Seq. No.
S141	T20.2006	Cont.		116+05 RT - 117+90 RT	184.00	0004 01
				Item T20.2006 Total:	4,140.00	
S142	T20.2012	12 INCH EPOXY RESIN PAVEMENT	LF			
MARKINGS WHITE						
DIVISION STREET						
		107+87 RT - 107+98 RT		20.00	0004	01
		107+95 RT - 108+06 RT		20.00	0004	01
		108+02 LT - 108+07 LT		17.00	0004	01
		108+11 LT - 108+16 LT		18.00	0004	01
		108+73 RT - 108+93 RT		22.00	0004	01
		108+75 RT - 108+96 RT		22.00	0004	01
		109+12 RT - 109+40 RT		28.00	0004	01
		109+12 RT - 109+42 RT		30.00	0004	01
		109+88 LT - 109+97 LT		33.00	0004	01
		109+92 RT - 110+02 RT		23.00	0004	01
		109+97 LT - 110+05 LT		33.00	0004	01
		110+00 RT - 110+10 RT		23.00	0004	01
		117+90		38.00	0004	01
				Item T20.2012 Total:	327.00	
S143	T20.2014	4 INCH EPOXY RESIN PAVEMENT	LF			
MARKINGS YELLOW						
DIVISION STREET						
		104+82 RT - 106+43 RT		322.00	0004	01
		106+43 LT - 108+06 LT		164.00	0004	01
		106+43 RT - 107+96 RT		153.00	0004	01
		108+06 RT - 108+38 RT		38.00	0004	01
		108+16 LT - 108+52 LT		39.00	0004	01
		108+80 RT - 108+91 RT		31.00	0004	01
		108+85 LT - 108+89 LT		88.00	0004	01
		108+90 LT - 109+22 LT		134.00	0004	01
		108+95 RT - 109+05 RT		71.00	0004	01

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Item No.	Item Code	Description	UM	Qty.	Pay Code	Seq. No.
S143	T20.2014 Cont.	109+14 RT - 109+15 RT		70.00	0004	01
		109+14 RT - 109+22 RT		24.00	0004	01
		109+54 RT - 109+93 RT		46.00	0004	01
		109+64 LT - 109+88 LT		26.00	0004	01
		109+98 RT - 111+05 LT		108.00	0004	01
		110+02 RT - 111+05 RT		108.00	0004	01
		111+05 LT - 112+09 LT		378.00	0004	01
		112+09 LT - 117+90 LT		1,290.00	0004	01
Item T20.2014 Total:				3,090.00		
S144	T20.2018	8 INCH EPOXY RESIN PAVEMENT	LF			
		MARKINGS YELLOW				
		DIVISION STREET				
		111+57 LT - 112+08 LT		34.00	0004	01
		112+08 LT - 112+45 LT		23.00	0004	01
Item T20.2018 Total:				57.00		
S145	T20.2020	EPOXY RESIN PAVEMENT ARROW -	EACH			
		STRAIGHT, LEFT, RIGHT, OR COMBINED				
		STANDARD 20.1.0				
		DIVISION STREET				
		108+51 LT		1.00	0004	01
		108+85 RT		1.00	0004	01
		108+90 LT		1.00	0004	01
		109+13 LT		1.00	0004	01
		109+27 RT		1.00	0004	01
		109+45 RT		1.00	0004	01
		115+83 LT		1.00	0004	01
		117+77 LT		1.00	0004	01
Item T20.2020 Total:				8.00		
S146	T20.2022	EPOXY RESIN PAVEMENT MARKING WORD	EACH			
		"ONLY" STANDARD 20.1.0				

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Item No.	Item Code	Description	UM	Qty.	Pay Code	Seq. No.
S146	T20.2022 Cont.	DIVISION STREET				
		109+13 LT		1.00	0004	01
		109+30 RT		1.00	0004	01
		115+44 LT		1.00	0004	01
		117+37 LT		1.00	0004	01
Item T20.2022 Total:				4.00		
S147	T20.9901	EPOXY RESIN PAVEMENT MARKING - WHITE YIELD LINE	LF			
		DIVISION STREET				
		108+30 RT - 108+37 RT		15.00	0004	01
		108+71 LT - 108+86 LT		16.00	0004	01
		109+19 RT - 109+32 RT		13.00	0004	01
		109+42 RT - 109+54 RT		14.00	0004	01
		109+59 LT - 109+63 LT		14.00	0004	01
		109+65 LT - 109+71 LT		13.00	0004	01
Item T20.9901 Total:				85.00		
S148	T20.9902	EPOXY RESIN PAVEMENT MARKING - WHITE WORD "YIELD"	EACH			
		DIVISION STREET				
		108+26 RT		1.00	0004	01
		108+82 LT		1.00	0004	01
		109+22 RT		1.00	0004	01
		109+47 RT		1.00	0004	01
		109+69 LT		1.00	0004	01
		109+78 LT		1.00	0004	01
Item T20.9902 Total:				6.00		
S149	T20.9903	EPOXY RESIN PAVEMENT MARKING - "FISHHOOK SYMBOL" - STRAIGHT, LEFT, RIGHT, OR COMBINED	EACH			
		DIVISION STREET				

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Item No.	Item Code	Description	UM	Qty.	Pay Code	Seq. No.
S149	T20.9903 Cont.	107+28 RT		1.00	0004	01
		108+88 LT		1.00	0004	01
		109+16 RT		1.00	0004	01
		110+96 LT		2.00	0004	01
Item T20.9903 Total:				5.00		
S150	T20.9904	REMOVE PAVEMENT MARKINGS - ARROW	EACH			
		DIVISION STREET				
		108+56 LT		1.00	0004	01
		108+71 LT		1.00	0004	01
		108+84 LT		1.00	0004	01
Item T20.9904 Total:				3.00		
S151	T20.9905	6 INCH WHITE TEMPORARY WATERBORNE	LF			
		PAVEMENT MARKINGS PAINT - 8 MILS				
		DIVISION STREET				
		CONSTRUCTION PHASE 1		1,500.00	0004	01
		CONSTRUCTION PHASE 2		1,500.00	0004	01
		CONSTRUCTION PHASE 3		750.00	0004	01
		CONSTRUCTION PHASE 4		550.00	0004	01
		FROM ITEM CODE T20.2006		4,140.00	0004	01
		MISCELLANEOUS		1,000.00	0004	01
Item T20.9905 Total:				9,440.00		
S152	T20.9906	12 INCH WHITE TEMPORARY WATERBORNE	LF			
		PAVEMENT MARKINGS PAINT - 8 MILS				
		DIVISION STREET				
		FROM ITEM CODE T20.2012		327.00	0004	01
Item T20.9906 Total:				327.00		
S153	T20.9907	4 INCH YELLOW TEMPORARY WATERBORNE	LF			
		PAVEMENT MARKINGS PAINT - 8 MILS				
		DIVISION STREET				

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S153	T20.9907 Cont.	CONSTRUCTION PHASE 1		1,500.00	0004	01
		CONSTRUCTION PHASE 2		1,500.00	0004	01
		CONSTRUCTION PHASE 3		1,500.00	0004	01
		CONSTRUCTION PHASE 4		1,100.00	0004	01
		FROM ITEM CODE T20.2014		3,090.00	0004	01
		MISCELLANEOUS		1,000.00	0004	01
Item T20.9907 Total:				9,690.00		
S154	T20.9908	TEMPORARY WATERBORNE PAVEMENT	EACH			
		MARKINGS ARROW - STRAIGHT, LEFT, RIGHT OR COMBINED, STD. 26.1.0				
		PAINT - 8 MILS				
		DIVISION STREET				
		FROM ITEM CODE T20.2020		8.00	0004	01
Item T20.9908 Total:				8.00		
S155	T20.9909	TEMPORARY WATERBORNE PAVEMENT	EACH			
		MARKING WORD "ONLY" STD. 20.1.0				
		PAINT - 8 MILS				
		DIVISION STREET				
		FROM ITEM CODE T20.2022		4.00	0004	01
Item T20.9909 Total:				4.00		
S156	T20.9910	TEMPORARY WATERBORNE PAVEMENT	LF			
		MARKING - WHITE YIELD LINE - PAINT				
		- 8 MILS				
		DIVISION STREET				
		FROM ITEM CODE T20.9901		85.00	0004	01
Item T20.9910 Total:				85.00		
S157	T20.9911	TEMPORARY WATERBORNE PAVEMENT	EACH			
		MARKING - WHITE WORD "YIELD" -				
		PAINT - 8 MILS				

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Item No.	Item Code	Description	UM	Qty.	Pay Code	Seq. No.
S157	T20.9911 Cont.	DIVISION STREET				
		FROM ITEM CODE T20.9902		6.00	0004	01
Item T20.9911 Total:				6.00		
S158	T20.9912	TEMPORARY WATERBORNE PAVEMENT	EACH			
		MARKING "FISH HOOK SYMBOL"				
		STRAIGHT, LEFT, RIGHT OR COMBINED				
		PAINT - 8 MILS				
		DIVISION STREET				
		FROM ITEM CODE T20.9903		5.00	0004	01
Item T20.9912 Total:				5.00		
159	209.9902	INLET SEDIMENT CONTROL DEVICE	EACH			
		DIVISION STREET				
		EXISTING BASINS		17.00	0004	01
		PROPOSED BASINS		14.00	0004	01
Item 209.9902 Total:				31.00		
160	701.9905	12 INCH POLYVINYL CHLORIDE PLASTIC	LF			
		PIPE - SCHEDULE 40				
		DIVISION STREET				
		111+31 LT - 112+08 LT		77.00	0004	01
		112+08 LT - 112+81 LT		70.00	0004	01
Item 701.9905 Total:				147.00		