April 9, 2013

STATE OF RHODE ISLAND AND PROVIDENCE PLANTATION
DEPARTMENT OF TRANSPORTATION

RHODE ISLAND CONTRACT NO.2013-CB-063

FEDERAL-AID PROJECT NO. FAP Nos: FLD-EMRG(059)

Morgan Ave. Bridge No. 109901

Approximately 450 feet east of Atwood Avenue intersection to approximately 700 feet east.

CITY/TOWN OF Johnston

COUNTY OF PROVIDENCE

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. Contract Documents

1. Advertising Pages
    a. Page A-2

    Page A-2 "Description" text has been revised to read the same as "Description" text located on General Provisions - Contract Specific page CS-1.

2. Proposal Pages
    a. Item Code L02.0102

    Item Code L02.0102 has been flagged as a Specialty Item

    b. Pages P-16 and P-17

    Delete pages P-16 and P-17 in their entirety and replace them with pages P-16(R-1) and P-17(R-1) attached to this Addendum No. 1. The Addendum Posting Date has been posted.

3. Specifications - Job Specific
    a. Page JS-24

    Delete page JS-24 in its entirety and replace it with page JS-24(R-1) attached to this Addendum No. 1. The specification "Description" section has been revised.

    b. Page JS-58

    Delete page JS-58 in its entirety and replace it with page JS-58(R-1) attached to this Addendum No. 1. The "Schedule of Quantities" table has been updated.

c. Pages JS-63 and JS-64

Delete pages JS-63 and JS-64 in their entirety and replace them with pages JS-63(R-1) and JS-64(R-1) attached to this Addendum No. 1. The specification has been revised.

d. Pages JS-65 through JS-68

Delete pages JS-65 through JS-68 in their entirety and replace them with pages JS-65(R-1) through JS-68(R-1) attached to this Addendum No. 1. The specification has been revised.

e. Page JS-74

Delete page JS-74 in its entirety and replace it with page JS-74(R-1) attached to this Addendum No. 1. Top Coat Properties, Section "m" has been updated.

B. Distribution of Quantities

1. Index Pages 1 and 2

Delete Index pages 1 and 2 in their entirety and replace them with Index pages 1(R-1) and 2(R-1) attached to this Addendum No. 1. Item Code 807.9902 has been deleted.

2. Page 12

Delete page 12 in its entirety and replace it with page 12(R-1) attached to this Addendum No. 1. Item Code 803.9900 Title has been revised.

3. Page 12a

Add Page 12a attached to this Addendum No.1. The changes to Page 12 required an additional page.

4. Page 13

Delete page 13 in its entirety and replace it with page 13(R-1) attached to this Addendum No. 1. Item Code 807.9902 has been deleted, the quantity of Item Codes 807.9901 and 807.9903 have been updated.

5. Page 13a

Add Page 13a attached to this Addendum No.1. The changes to Page 13 required an additional page.

C. Drawings/Plans - Change/Addition

1. Plan Sheet 26

Delete plan sheet 26 in its entirety and replace it with plan sheet 26(R-1) attached to this Addendum No. 1. Note 6 has been revised. Note numbering corrected.

RI Department of Transportation
Chief Engineer

Total or gross sum of bid for Rhode Island Contract Number: 2013-CB-063

Federal-Aid Project Number(s): FLD-EMRG(059)

WRITTEN IN WORDS:

The undersigned bidder declares that this Proposal is made without connection with any other person or persons making proposals for the same work, and is in all respects fair and without collusion or fraud. The undersigned bidder submits herewith, a proposal guarantee in the form of a bid bond in favor of the State of Rhode Island in the amount of 5% of the total or gross sum of the bid and agrees and consents that the proposal guarantee shall be forfeited to the State as liquidated damages if the required contract agreement and contract bond are not executed within ten(10) days of the notice of award. All surety companies must be listed with The Department of the Treasury, Fiscal Services, Circular 570, (Latest Revision published by The Federal Register). The State reserves the right to retain the surety of all bidders until the successful bidder enters into the Contract or until such time as the award or cancellation of the Contract is announced at which point Sureties will be returned to all bidders by the State of Rhode Island, Office of Purchases. The undersigned bidder further agrees, if awarded the contract on this proposal, to begin work within ten (10) calendar days after the date of execution of the contract unless otherwise specified under special provisions or permitted by the Engineer, and further agrees to complete the work on or before the dates outlined in the Contract Documents.

COMPLETION DATE(S)

DESCRIPTION	DATE
Substantial Completion Date	August 29, 2014
Bid-Opening Date	April 24, 2013
Advertise Date	April 3, 2013

THE BIDDER ACKNOWLEDGES RECEIPT OF THE FOLLOWING:

ADDENDA	DATE POSTED
NO.1	

DOCUMENT(S)	PAGE
1. Status Certification for: Debarment, Eligibility, Indictments, Convictions or Civil Judgements	1
2. Anti-Collusion Certificate	2
4. DBE Affirmative Action Certification	3 - 9
3. Disclosure of Lobbying Activities	

Total or gross sum of bid for Rhode Island Contract Number: 2013-CB-063

Federal-Aid Project Number(s): FLD-EMRG(059)

Whoever, being an officer, agent, or employee of the United States, or of any State, or Territory, or whoever, whether a person, association, firm, or corporation, knowingly makes any false statement, false representation, or false report as to the character, quality, quantity, or cost of the material used or to be used, or the quantity or quality of the work performed or to be performed, or the costs thereof in connection with the submission of plans, maps, specifications, contracts, or costs of construction of any highway or related project submitted for approval to the Secretary of Transportation; or Whoever, knowingly makes any false statement, false representation, false report, or false claim with respect to the character, quality, quantity, or cost of any work performed or to be performed, or materials furnished or to be furnished, in connection with the construction of any highway or related project approved by the Secretary of Transportation; or Whoever, knowingly makes any false statement or false representation as to a material fact in any statement, certificate, or report submitted pursuant to the provisions of the Federal-aid Road Act approved July 11, 1916 (39 Stat. 355), as amended and supplemented, Shall be fined not more than $10,000 or imprisoned not more than five years, or both. By signing here the signee agrees that the disk submitted is the same as the paper submitted and that any discrepancies may result in disqualification of the bid.

BEING EITHER A (INDIVIDUAL, PARTNERSHIP,)
(OR CORPORATION INCORPORATED)
(UNDER THE LAWS OF ANY STATE)
(IN THE UNITED STATES OF AMERICA)

_____

Contractor

COMPOSED OF OFFICERS, PARTNERS
OR OWNER, AS FOLLOWS.

_____

President

_____

Vice-President

_____

Secretary

_____

Treasurer

Address _____

_____

CERTIFICATION SUMMARY: I hereby certify that I have read all of the above requirements and understand that it affects the acceptablility of my bid(s).

_____

Name of Signatore - Title Date

JOB SPECIFIC
R.I. CONTRACT NO. 2013-CB-063

CODE 701.9901
INSTALL 4" GAS MAIN ACROSS UTILITY BRIDGE AND BELOW GROUND

101 **DESCRIPTION**

101.1 Work within this item shall be completed by a State and National Grid approved gas piping contractor or subcontractor. The work consists of:

101.11 Installation of approximately 64 feet of 4-inch steel pipe and 52 feet of 4-inch plastic pipe from Morgan Ave. and across the new utility bridge structure including (6) pipe support / alignment brackets, (4) 90 weld elbows to anchor the pipe in the ground and bring the pipe to existing gas main depth, and (2) 45 & (2) 90 plastic elbows to bring the pipe to the existing main position in Morgan Ave as depicted in the Plans.

101.12 Pressure testing the main installed to 150 psig for a minimum of 1 hour in accordance with Section 106 and installation of cathodic protection consisting of (2) test stations with (2) 17# anodes as shown on the design.

101.13 Development of "as-built" drawings based upon the National Grid Location Plans.

101.2 Live gas tie-ins and cut-offs will be done exclusively by the National Grid.

101.3 National Grid reserves the right to make inspections of the work during the progress of installation and, where required, have all installation sequences performed in the presence of its inspector or authorized agent.

102 **MATERIAL AVAILABILITY**

102.1 All piping materials, including pipe, valves, fittings and appurtenances shall be provided by National Grid and shall not include padding sand and special backfill. Material shall be

DESCRIPTION	UNIT	QTY	UNIT PRICE	AMOUNT
CONCRETE SUBSTRUCTURE CLASS XX 3/ 4" CONCRETE CAP	CY			
CORROSION RESISTANT REINFORCING BARS	LBS			
AASHTO M270 GRADE 50 STEEL FURNISH FAB. & ERECT ROLLED SIMPLE SPANS	LBS			
AASHTO M270 GRADE 50 STEEL FURNISH & FABRICATE	LBS			
COLOR GALVANIZING STRUCTRAL STEEL	SF			
ELASTOMERIC BEARING PLAIN	EA			

Total Lump Sum Price for Item 8**00.9900 =**

The preceding schedule applies only to the utility bridge structure. Similar materials and construction at locations other than the utility bridge structure are not included under this item.

Any work not covered in this schedule, but shown on the plans, shall be included in the Contract Lump Sum Price for this item.

JOB SPECIFIC
R.I. CONTRACT NO. 2013-CB-063

CODE 803.9900
PARTIAL REMOVAL AND DISPOSAL/RESETTING OF EXISTING STONE MASONRY

DESCRIPTION: This item shall consist of the partial removal and disposal or resetting of existing stone masonry as shown on plans and described in this Special Provision. All work shall be performed in accordance with the Rhode Island Standard Specifications for Road and Bridge Construction, 2004 Edition, with latest addenda, except as modified herein and as required by the Engineer.

CONSTRUCTION METHODS: The work of dismantling and reconstructing the stone masonry shall be carried out in accordance with Section 939-Stone Walls in Historic, Scenic or Rural Areas of the Standard Specifications as it applies to historic stone masonry. The limits of dismantling shall be in accordance with the contract plans and as required to reconstruct the stone masonry to conform to the specified finished elevations. The reconstruction of the stone masonry shall be carried out using the original stones removed from the structure, which shall be reset to match the appearance of the existing (intact) masonry. All work to be performed in the partial removal or resetting of the existing structure shall be done in such a manner that no debris falls into the river and/or onto adjacent properties. In the event that any materials fall into the water or beyond the work zone, the Contractor shall remove said materials immediately to the satisfaction of the Engineer. Drilling into or anchoring/attaching staging, netting, false work, etc. into the faces of the stone masonry that will remain when the project is complete is prohibited.

Dismantling of the masonry shall be carefully carried out in a workmanlike manner so as to prevent damage to the stones to be reused and the existing structure to remain. Dismantling shall be performed by the same approved, historic masonry contractor who will be reconstructing the masonry. The stones are to be removed by hand when possible. Stones requiring machinery to move are to be lifted using suitable straps to protect the stones from damage. It may be necessary to dismantle the stone masonry beyond the limits depicted on the plans in order to reconstruct the masonry up to the finished elevation using stones that match the overall size distribution of stones within the original stone masonry. Large stones that extend into the limits of removal shall be removed, cut and reset in their existing location, unless a single, appropriately sized stone is available. Stones that are to be reused shall be stockpiled in a secure area approved by the Engineer and protected from vandalism and theft. Any damage to the structure to remain resulting from the Contractor's operations shall be repaired by the Contractor at his own expense and to the satisfaction of the Engineer.

The reconstructed stone masonry shall match the appearance, joint construction and coursing of the existing historic masonry. All stones that are to be reused for rebuilding the masonry shall be carefully cleaned of all mortar, soil and any other deleterious materials without cracking, chipping or otherwise defacing them. The masonry shall be reconstructed as mortared stone masonry with the mortar joints pointed as necessary to match the original masonry but, not filled beyond the face line of the wall. The masonry shall be rebuilt to the finished elevation shown on the plans. The top of the masonry shall be left with a relatively even surface (+/- 1 inch), with the tops of the stones free from mortar to receive the new

concrete cap. The use of or grouping of disproportionately small or thin stones at the top of the masonry will not be accepted.

Submittals: The Contractor shall submit for approval shop drawings for the demolition procedures and equipment to be used for the dismantling and reconstruction of stone masonry, stone mason qualifications/project references, sequencing of work, measures to prevent debris from entering the river, proposed debris disposal area(s) and any other methods and equipment proposed to carry out the work under this item.

All materials remaining after masonry reconstruction is completed shall be removed and legally disposed of in accordance with state and federal regulations. Storing or burying of material/debris on site shall not be permitted.

METHOD OF MEASUREMENT: "Partial Removal and Disposal/Resetting of Existing Stone Masonry" shall be measured by the "Cubic Yard" of masonry actually removed in accordance with the plans and/or as directed by the Engineer.

BASIS OF PAYMENT: The accepted quantity of "Partial Removal and Disposal/Resetting of Existing Stone Masonry" shall be paid for at the contract unit price bid per "Cubic Yard" of masonry as listed in the Proposal. The payment constitutes full compensation for all labor, tools, materials, equipment, stockpiling/protection/cleaning/cutting of stones and all other incidentals necessary to properly perform the work in accordance with this specification to the satisfaction of the Engineer.

JOB SPECIFIC
R.I. CONTRACT NO. 2013-CB-063

CODE 807.
STONE MASONRY JOINT REPAIRS

DESCRIPTION: The work under this item cover all stone masonry related work, including repointing mortar joints, grouting masonry voids and replacing/resetting stones to accommodate the proposed superstructure and approach wall barrier. Grouting shall consist of grouting the cavities and voids between the stones of an arch structure and replacing/resetting the approach walls. Grouting will be completed with a Portland cement, non-shrink, non-metallic grout. The grout shall be approved by the Engineer and in consultation with the RIDOT Preservation Specialist. Repairs shall include, but not limited to: cleaning and preparing of the bonding surface, application of a bonding agent, and placement of Portland cement, non-shrink, non-metallic grout. This work shall be performed in conformance with these Special Provisions, and Section 807 of the Rhode Island Standard Specifications for Road and Bridge Construction, 2004 Edition as amended, as modified by this provision, and as directed by the Engineer.

Joint repointing shall be performed with skilled workmen. The Engineer shall be notified of any repair work no later than 24 hours prior to the scheduled repair work.

Contractor shall submit Field Inspection/Verification Plans. These plans shall be ¼" scale elevation drawings of all exposed faces of masonry of all arch and wall elements showing actual field measured depths of any all voids in mortar joints, measured from the face of line of masonry. Details showing depth of voids shall be adequate to detail replacement stones, or verify fit of stones to be reset. Plans shall include a written description of how all stone work will be performed, including but no limited to, which stones are proposed to be replaced and which stones are proposed to be reset. Cost of this work shall be considered incidental to related masonry work. No stone work shall commence until the Contractor's plans are approved by the Engineer.

All work shall conform to all local, state, and federal requirements relative to working over, on or under a waterway.

MATERIALS:

Mortar for pointing joints shall conform to Rhode Island Standard Specifications for Road and Bridge construction, as amended, subsection M.04.03.5.

Properties of the mixed Portland cement grout:

1. Time of Set (ASTM C-191)
   a. Initial Set: 3.0 hours min.
   b. Final Set: 6.5 hours max.
2. Flow (CRD C-621):100-124%
3. Color: concrete gray to match existing stone as much as possible
4. The grout shall not exhibit bleeding.
5. The grout shall be segregate.
6. The grout shall be pumpable through standard grout pumping equipment.

Properties of the cured portland cement grout:

1. Compressive Strength (CRD C-496) at 28 days: 500 psi min.
   a. 1 day: 3800 psi min.
   b. 28 day: 7600 psi min.
2. Splitting Tensile Strength (ASTM C-496) at 28 days: 500 psi min.
3. Flexural Strength (ASTM C-580) at 28 days: 1200 psi min.
4. Bond Strength (ASTM C-882 Modified) Plastic grout to hardened concrete at 28 days (moist cure):1950 psi min.
5. Expansion (CRD C-621) at 28 days: +0.015% min.
6. The grout shall not produce a vapor barrier.
7. The grout shall exhibit positive expansion when tested in accordance to ASTM C-827.
8. The grout shall conform to United States Army Corps of Engineers Specification CRD C-621.
9. The grout shall conform to ASTM C-1107.
10. The material shall be approved by the United States Department of Agriculture.

QUALIFICATIONS: The masonry contractor shall have stone masons with demonstrated proficiency in historic stone masonry construction/reconstruction practices. Documentation in the form of professional certifications and the location of at least three successfully completed stone walls or bridges of a similiar type to the work to be performed must be presented to the engineer no less than 30 days prior to the start of work. The documentation must be approved by the Engineer in consultation with RIDOT Historic Preservation Specialist in order for the masonry contractor to be allowed to perform the work. The approved masons are to complete the entire work item for which approval was given.

The manufacturer of the specified product shall be ISO 9001 certified and have in existence a recognized ongoing quality assurance program, independently audited on a regular basis

CONSTRUCTION METHODS: Construction methods shall conform to Rhode Island Standard Specifications except as otherwise provided in this Specification.

Delivery, Storage, and Handling: Deliver the specified product in original, unopened containers with the manufacturer's name, labels, product identification, and batch numbers. Store and condition the specified product as recommended by the manufacturer.

Job Conditions: Do not apply material if it is raining or snowing or if they appear to be imminent. Precautions should be taken to avoid damage to any surface near the work zone due to mixing and handling of the specified repair material.

Surface Preparation: The joints must be mechanically prepared. Areas to be grouted must be clean, sound and free of contaminants. All loose and deteriorated stone and debris shall be removed by mechanical means approved by the Engineer. Perform all other surface and joint preparation as per manufacture's requirements.

Access to Bridge Arch: If accessing bridge arch from below, within the river, all equipment utilized shall be approved prior to placement in order for the painting and repair work to remain in compliance with the RIDEM Wetland Regulations.

Curing: All curing procedures and methods shall be completed according to the manufacturer's recommendations and as specified in Section 601 of the R.I. Standard Specifications or as otherwise directed by the Engineer. Use of curing compounds is not permitted.

Finishing: All exposed surfaces shall be hand tooled with a pointing tool before the grout sets as approved by the Engineer. Avoid smearing the masonry surfaces with excess mortar forced out of the joints.

LIMITATIONS: <u>All openings along underside of stone arch shall be fully grouted. No more than a 24-inch depth of grout within 10' x 10' grid shall be placed in any opening larger than 10 square footage along the stone wall.</u> If it is evident that more depth must be placed due to the conditions of existing stones and stone placement encountered, the work shall stop at that designated location and the Engineer will be notified immediately. There shall be no additional compensation for the period of time while work is suspended.

"Pointing and Grouting Existing Stone Masonry" (Item Code 807.9901) shall conform to Section 807 of the RI Standard Specification, except as modified by this specification and the material manufacturer's recommendations.

Field Inspection/Verification Plans shall be submitted and approved prior to commencing this work.

This work shall include all mortar joints which require re-pointing, regardless of whether the joints are above or below water line.

All mortar joint with loose mortar and/or voids shall be cleaned out with appropriate tools. After cleaning, joints shall be re-pointed with a fast setting grout along the face.

Contractor shall prevent excess grout from falling into the water or onto the ground below.

Grouting operations shall be done concurrently with the replacing/resetting of the new or re-used stones.

"Replace/Reset Masonry Stones" (Item Code 807.9903) shall be done in workmanlike manner so as to ensure proper selection, preparation, fabrication and installation of all stones so as to restore, to the maximum extent possible, the original stone construction.

Any replacement or resetting of stones carried out under this item shall be performed by the masons approved to perform the work under Item Code 803.9900.

Actual stone dimensions shall be determined by the Contractor based on Field Inspection/Verification Plans, prior to fabrication of any tones. Field Inspection/Verification Plans shall be submitted and approved prior to commencing this work. Upon approval of Field Inspection/Verification Plan, the Contractor shall commence preparation of shop drawings for stones to be fabricated. If stones are to be retrieved from the job site and re-used, then the Field Inspection/Verifications Plan shall include detailed dimensions of each stone to be re-used. Additionally, these stones shall be removed from the job site, cleaned and stored an accessible location for inspection by the Engineer.

Any stones which become loose, or those stones surrounded by mortar joints which become cracked as a result of the Contractor's operation shall be removed, cleaned and reset at no extra cost to the State.

New granite stones shall match the existing stones with respect to shape, color, size, finish, grain and composition.

Contractor shall stabilize existing stones during stone work. Method of stabilization shall be submitted for approval and shall be considered incidental to stone work and not measure separately for payment. This stone stabilization shall continue through the duration of the work to ensure a safe working environment and avoid loss and/or damage of additional stones and/or work already completed.

METHOD OF MEASUREMENT:

Item 807.9901 "Pointing and Grouting Existing Stone Masonry" shall be measured by the "Cubic Yard" of grout mortar actually applied and for all work required in accordance with the plans and/or as directed by the Engineer.

Item 807.9903 "Replace/Reset Masonry Stones" shall be measured by the "Cubic Yard" of stones actually applied and for all work required, regardless of whether the stone is new or re-used, in accordance with the plans and/or as directed by the Engineer.

BASIS OF PAYMENT: The accepted quantity of "Stone Masonry Joint Repairs" shall be paid for at the contract unit price bid per "Cubic Yard" as listed in the Proposal. The payment constitutes full compensation for all labor, materials, equipment, tools, forms, scaffolding, including bonding agent and all other incidentals necessary to complete the work to the satisfaction of the Engineer. No additional payment will be made for rebound, overlapping or other loss of material

Primer Properties:

a. Abrasion Resistance: ASTM D 4060 (CS17 Wheel, 1,000 grams load) 1 kg load, 200 mg loss.
b. Adhesion: ASTM D 4541, with a minimum acceptance bond strength of 250 psi.
c. Corrosion Weathering: ASTM D 5894, 13 cycles, 4,368 hours, 10 per ASTM D 714 for blistering; 7 per ASTM D 610 for rusting.
d. Direct Impact Resistance: ASTM D 2794, 160 in. lbs.
e. Flexibility: ASTM D 522, 180 degrees bend, 1 inch mandrel, Passes.
f. Pencil Hardness: ASTM D 3363, 3H.
g. Moisture Condensation Resistance: ASTM D 4585, 100 degrees F, 2000 hours, Passes no cracking or delamination.
h. Dry Heat Resistance: ASTM D 2485, 250 degrees F.
i. Accelerated Weathering: QUV- ASTM D 4587 QUV A 5000 Hours: Passes.
j. Salt Fog Resistance: ASTM B117, 5,600 hours No cracking or blisters.

Topcoat Properties:

a. Abrasion Resistance: ASTM D 4060, CS17 Wheel, 1,000 cycles 1 kg load, 87.1 mg loss.
b. Adhesion: ASTM D 4541, with a minimum acceptance bond strength of 250 psi.
c. Direct Impact Resistance: ASTM D 2794, greater than 28 in. pounds.
d. Dry Heat Resistance: ASTM D 2485, 200 degrees F (93 C).
e. Salt Fog Resistance: ASTM B 117 9,000 hours, Rating 10 per ASTM D 714 for blistering, Rating 9 per ASTM D 610 for rusting.
f. Flexibility: ASTM D522, 180 degrees bend, 1/8 inch mandrel, Passes.
g. Pencil Hardness: ASTM D 3363, F.
h. Moisture Condensation Resistance: ASTM D 4585, 100 degrees F, 1000 hours, No blistering or delamination.
i. Xenon Arc Test: ASTM D 4798, Pass 200 hours.
j. Corrosion Weathering: ASTM D 5894, 21 Cycles, 7056 Hours: Rating 10 per ASTM D714 for blistering. Rating 9 per ASTM D 610 for Rusting.
k. Thermal Shock: ASTM D 2246, 15 cycles, Excellent.
l. Top coat shall exhibit a rugosity (smoothness) 4 rug or less (16-20 microns of variation) when measured by a profilometer over a 1 inch straight line on the surface of elements that are less than 24 pounds per running foot. Profilometer shall be capable of operating in 1 micron increments.
m. Top Coat Color galvanizing top coating: Color to match Federal Standard 595B color 37030 (black) and 36307 (gray) for the traffic railing andUtility Bridge, respectively. A different color prime coat must be used to provide visual inspection of the top coating coverage. The color of the prime coat must not alter the appearance of the top coat. Provide the finish surface color to the Engineer for review and approval prior to coating any components.

Application: Apply the NEPCOAT-approved intermediate coat as the primer over the galvanizing at the DFT as specified by the coating manufacturer. Apply the primer within 8 hours after galvanizing at the same galvanizer's plant in a controlled environment meeting

Table of Contents - Distribution of Quantities

Project Name - Morgan Ave. Bridge No. 109901
Estimate Name - Addendum to Combined Utility and Bridge
R.I. Contract No. - 2013-CB-063
FAP Nos: FLD-EMRG(059)

Table of Contents - Distribution of Quantities

Project Name - Morgan Ave. Bridge No. 109901
Estimate Name - Addendum to Combined Utility and Bridge
R.I. Contract No. - 2013-CB-063
FAP Nos: FLD-EMRG(059)

Distribution of Quantities

Project Name - Morgan Ave. Bridge No. 109901
Estimate Name - Addendum to Combined Utility and Bridge
R.I. Contract No. - 2013-CB-063
FAP Nos: FLD-EMRG(059)

Item No.	Item Code	Description	UM	Qty.	Pay Code	Seq. No.
051	**712.0200**	**GAS GATE BOX**	**EACH**			
		MORGAN AVENUE				
		PROJECT WIDE		1.00	0008	01
		Item 712.0200 Total:		**1.00**		
052	**713.8269**	**ADJUST WATER GATE BOXES TO GRADE**	**EACH**			
		MORGAN AVENUE				
		STATION 13+99 RT		1.00	0008	01
		Item 713.8269 Total:		**1.00**		
053	**800.9900**	**MORGAN AVENUE UTILITY BRIDGE**	**LS**			
		MORGAN AVENUE				
		PROJECT WIDE		1.00	0008	01
		Item 800.9900 Total:		**1.00**		
054	**800.9901**	**MODIFICATIONS TO MORGAN AVENUE BRIDGE NO. 1099 - SUPERSTRUCTURE**	**LS**			
		MORGAN AVENUE				
		PROJECT WIDE		1.00	0008	01
		Item 800.9901 Total:		**1.00**		
055	**800.9902**	**MODIFICATIONS TO MORGAN AVENUE BRIDGE NO. 1099 - SUBSTRUCTURE**	**LS**			
		MORGAN AVENUE				
		PROJECT WIDE		1.00	0008	01
		Item 800.9902 Total:		**1.00**		
056	**803.9900**	**PARTIAL REMOVAL AND DISPOSAL/RESETTING OF EXISTING STONE MASONRY**	**CY**			
		MORGAN AVENUE				
		BRIDGE PARAPET			0008	01
		MORGAN AVENUE				

Distribution of Quantities

Project Name - Morgan Ave. Bridge No. 109901
Estimate Name - Addendum to Combined Utility and Bridge
R.I. Contract No. - 2013-CB-063
FAP Nos: FLD-EMRG(059)

Item No.	Item Code	Description	UM	Qty.	Pay Code	Seq. No.
056	**803.9900 Cont.**	BRIDGE PARAPET		150.00	0008	01
		UTILITY BRIDGE				
		UTILITY BRIDGE			0008	01
		UTILITY BRIDGE				
		UTILITY BRIDGE		1.00	0008	01

Distribution of Quantities

Project Name - Morgan Ave. Bridge No. 109901
Estimate Name - Addendum to Combined Utility and Bridge
R.I. Contract No. - 2013-CB-063
FAP Nos: FLD-EMRG(059)

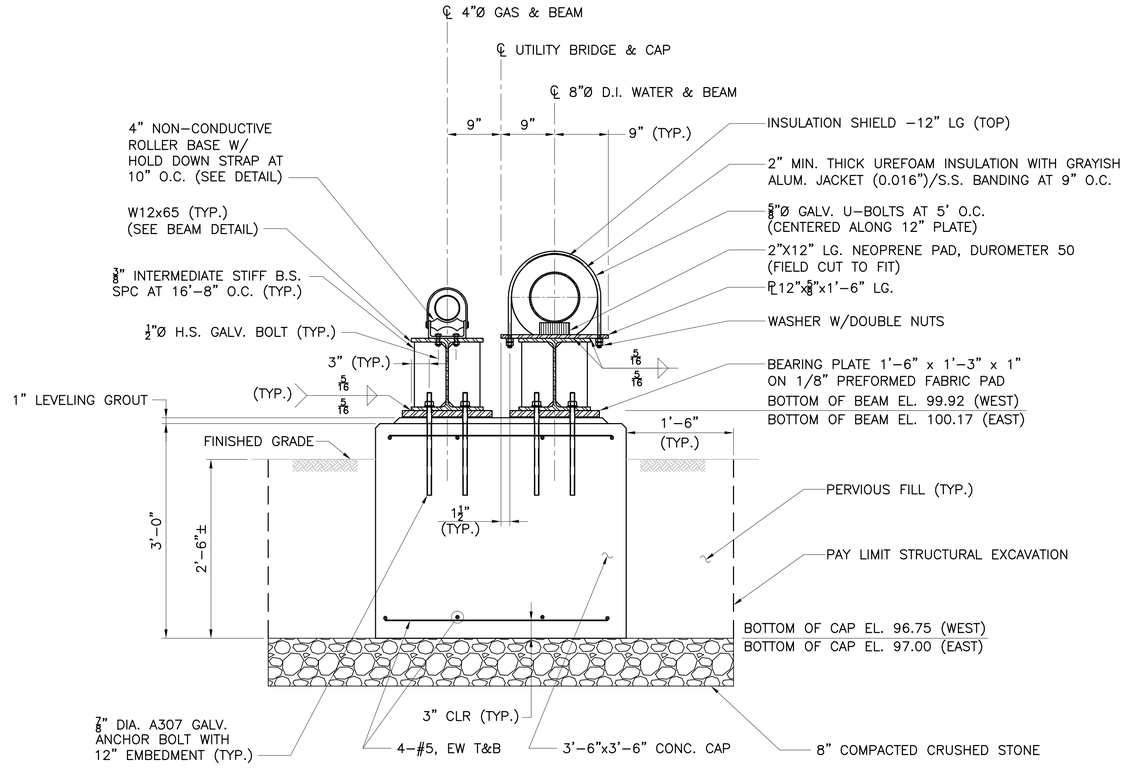
Item No.	Item Code	Description	UM	Qty.	Pay Code	Seq. No.
056	**803.9900 Cont.**	**Item 803.9900 Total:**		**151.00**		
057	**807.9901**	**POINTING AND GROUTING EXISTING STONE MASONRY**	**CY**			
		MORGAN AVENUE BRIDGE				
		BRIDGE MASONRY			0008	01
		MORGAN AVENUE				
		BRIDGE MASONRY		26.00	0008	01
		Item 807.9901 Total:		**26.00**		
058	**807.9902**	**GROUT MASONRY VOIDS**	**CY**			
		MORGAN AVENUE				
		UNDERSIDE JOINTS			0008	01
		Item 807.9902 Total:		****DELETED****		
059	**807.9903**	**REPLACE/RESET MASONRY STONES**	**CY**			
		MORGAN AVENUE BRIDGE				
		BRIDGE MASONRY		25.00	0008	01
		WALL MASONRY		2.00	0008	01
		Item 807.9903 Total:		**27.00**		
060	**901.0190**	**GUARDRAIL STEEL BEAM ANCHORAGE APPROACH SECTION STANDARDS 34.3.1 AND 34.3.3**	**EACH**			
		MORGAN AVENUE				
		STATION 12+14 LT		1.00	0008	01
		STATION 12+18 RT		1.00	0008	01
		Item 901.0190 Total:		**2.00**		
061	**901.0193**	**GUARDRAIL STEEL BEAM SINGLE FACE STANDARD 34.2.0**	**LF**			
		MORGAN AVENUE				
		STATION 13+99 TO 14+16 LT		16.00	0008	01

Distribution of Quantities

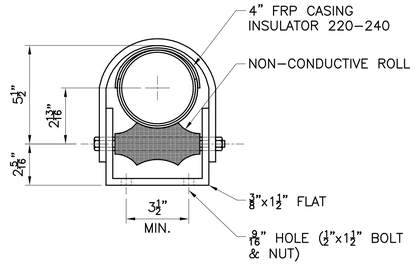
Project Name - Morgan Ave. Bridge No. 109901
Estimate Name - Addendum to Combined Utility and Bridge
R.I. Contract No. - 2013-CB-063
FAP Nos: FLD-EMRG(059)

Item No.	Item Code	Description	UM	Qty.	Pay Code	Seq. No.
061	901.0193 Cont.	Item 901.0193 Total:		16.00		
062	901.9901	GUARDRAIL CONNECTION TO EXISTING ENDPOST AND TRANSITION	EACH			

FED. ROAD DIV. NO.	STATE	FEDERAL AID PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
	RI	FLD-EMRG(059)	2013	26	40



UTILITY BRIDGE TYPICAL SECTION
SCALE: 1"=1'-0"

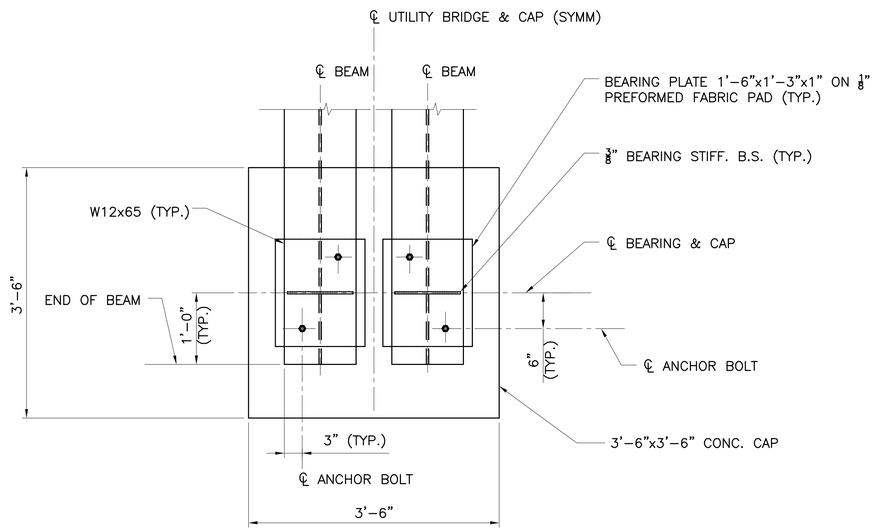


NOTE
4" NON-CONDUCTIVE ROLLER BASE WITH HOLD DOWN STRAP W/ BOLTS & NUTS (ALL BLUE COATED).

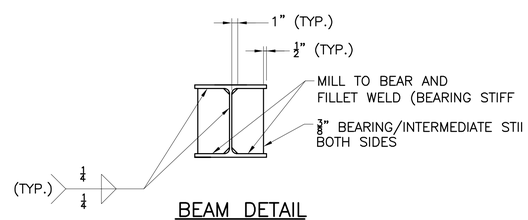
GAS SUPPORT DETAIL
NOT TO SCALE

UTILITY BRIDGE NOTES

1. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE 2004 EDITION OF STATE OF RHODE ISLAND STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND LATEST AASHTO, INCLUDING ALL REVISIONS OR SUPPLEMENTS UP TO THE YEAR 2012.
2. ALL STRUCTURAL STEEL SHAPES AND PLATES SHALL BE AASHTO M270 GRADE 50. ALL STEEL BOLTS SHALL BE HIGH STRENGTH CONFORMING TO AASHTO 164 (ASTM A325).
3. WELDING SHALL BE IN ACCORDANCE WITH THE LATEST STRUCTURAL WELDING CODE AASHTO/AWS D1.5.
4. W12X65 BEAM NEED NOT TO BE CAMBERED. HOWEVER, ANY NATURAL CAMBER SHALL BE PLACED UP.
5. ALL ANCHOR BOLTS SHALL CONFORM TO ASTM A307 AND SHALL BE SET BY TEMPLATES BEFORE THE CONCRETE IS PLACED.
6. ALL STRUCTURAL STEEL SHALL BE COLOR GALVANIZED IN ACCORDANCE WITH ITEM CODE 827.9901 THE COLOR OF THE SURFACES SHALL BE GRAY TO MATCH FEDERAL STANDARD 36307 LUSTERLESS GRAY COLOR. ALL DAMAGE DUE TO HANDLING, SHIPPING, ERECTION AND VISUAL IMPERFECTIONS SHALL BE FIELD PREPARED AND TOUCH-UP REPAIRED TO BLEND WITH FINISH COATS EQUIVALENT TO THE ORIGINAL SYSTEMS, IN ACCORDANCE WITH THE MANUFACTURER RECOMMENDATIONS AND THE SATISFACTION OF THE ENGINEER AT NO ADDITIONAL COST TO THE STATE.
7. CLASS OF CONCRETE SHALL BE CLASS XX (3/4") f'c= 4,000 PSI.
8. ALL REINFORCING STEEL SHALL BE AASHTO DESIGNATION M31, GRADE 60.
9. AT THE EAST CAP, PROVIDE A SHORT SLOTTED HOLE (15/16"x1 1/8") LONGITUDINALLY AT THE BOTTOM FLANGE OF W12X65 FOR THE ANCHOR BOLTS.
10. UTILITY BRIDGE SHALL BE PAID FOR UNDER ITEM CODE 824.9901.
11. NO CONSTRUCTION EQUIPMENT OR PERSONNEL SHALL BE PERMITTED WITHIN A TEN (10) FOOT RADIUS OF THE ENERGIZED OVERHEAD LINES.
12. DURING BEAM ERECTION, CONTRACTOR SHALL ANCHORED THE BEAM INTO SUPPORT CAP PRIOR TO THE END OF WORK SHIFT.



PLAN-CAP
SCALE: 1"=1'-0"



BEAM DETAIL
SCALE: 1"=1'-0"

ADDENDUM NO. 1

REVISIONS		
NO.	DATE	BY
1	4/5/2013	VHB

RHODE ISLAND
DEPARTMENT OF TRANSPORTATION

MODIFICATIONS TO
MORGAN AVENUE
BRIDGE NO. 1099
JOHNSTON, RHODE ISLAND

UTILITY SUPPORT DETAILS 1

CHECKED BY _____ DATE _____ SCALE AS SHOWN

VANASSE HANGEN BRUSTLIN, INC.
TRANSPORTATION LAND DEVELOPMENT
ENVIRONMENTAL SERVICES
PROVIDENCE, RHODE ISLAND