

**THE PORT AUTHORITY OF NEW YORK AND NEW JERSEY
TWO MONTGOMERY STREET - 1st FLOOR
JERSEY CITY, NJ 07302**

June 25, 2018

ADDENDUM NO. 1

TO PROSPECTIVE BIDDERS ON CONTRACT GWB-244.049 – GEORGE WASHINGTON BRIDGE – TRANS-MANHATTAN EXPRESSWAY MEDIAN BARRIERS AND WATER SYSTEM 'C' REHABILITATION

The following changes are hereby made in the Contract Documents for the subject Contract.

This communication should be physically annexed to back cover of the book and initialed by each bidder before submitting his bid.

In case any bidder fails to conform to these instructions, his Bid will nevertheless be construed as though this communication had been so physically annexed and initialed.

CHANGES IN THE CONTRACT BOOKLET

- Page v - Under the heading **DIVISION 02 - SITEWORK**, make the following changes:
- A. Immediately following "02073 CUTTING, PATCHING AND REMOVAL" insert new line "02093 INCIDENTAL DISTURBANCE OF LEAD-CONTAINING PAINT".
 - B. In the title of Section 02581, delete "ALL WEATHER THERMOPLASTIC REFLECTORIZED" and substitute therefor "WET REFLECTIVE THERMOPLASTIC".
 - C. Immediately following "02662 EXTERIOR WATER SUPPLY SYSTEM FOR PORT AUTHORITY OF NEW YORK AND NEW JERSEY FACILITIES " insert the following new lines:
"02842 TEMPORARY TRAFFIC BARRIERS
02846 TEMPORARY WATER-FILLED BARRIER".
- Page 5 - Delete this page in its entirety and physically attach in its place new page 5 which is attached hereto and made a part hereof.
- Page 86 - In the clause entitled "Insurance Procured by Contractor", immediately following A.1.) insert the following new paragraphs:
- "2.) Hazardous/contaminated waste transportation insurance shall be provided by any Contractor or subcontractor hauling hazardous/contaminated waste with a limit of \$5 million each occurrence.

B. Environmental Liability Insurance:

The Contractor shall procure and maintain in force an Environmental Liability Insurance Policy covering the Contractor and its subcontractors' pollution legal liability, lead abatement liability, including cleanup, with limits not less than \$5 million per occurrence for bodily injury and property damage tailored to the specific exposures as they relate to the scope of this Contract. Such policy(ies) and any certificate of insurance submitted hereunder in relation to such policy(ies) shall (i) be expressly endorsed for this Contract and each transfer location, travel route and material disposition location selected by the Contractor, (ii) state that claims disputes and coverage shall be litigated in United States courts having jurisdiction, and not be limited to arbitration, and (iii) acknowledge the Contractor disclosure to the insurance carrier that the material may be considered a hazardous substance/waste under applicable law including, but not limited to, RCRA and/or CERCLA and/or the Toxic Substance Control Act (TSCA). It should be noted that the substances may be considered "hazardous" under CERCLA, but not necessarily "hazardous" under RCRA and that such materials if RCRA "hazardous" would require a manifest and disposal certificate under RCRA at a Subtitle C hazardous waste disposal facility. A copy of this Contract, including all schedules and documents shall be provided to the insurance carrier. The insurance coverage shall be on an occurrence basis, providing coverage for bodily injury liability, property damage or environmental damage caused by pollution conditions on land, in air, and on water. The policy will be in effect commencing on the effective date of the Contract and include coverage for completed operations for 5 years after the close of the Contract. The Contractor's insurance shall be primary insurance and shall be non-contributory as respects the Authority. The policy shall not contain any provision or definition that would serve to eliminate third party over claims, and shall not contain exclusions of the premise owner.

The policy shall provide transportation coverage by or on the behalf of the Contractor for the loading and unloading and hauling of related waste materials, including but not limited to asbestos material and lead from the site to the final disposition location. Deductibles are subject to the approval of the Authority and shall not reduce the limit of liability. The policy form must "pay on behalf of" rather than "indemnify the insured". The policy shall not contain a sunset provision, or any other provision, which would prohibit the reporting of a claim and the subsequent defense and indemnity that would normally be provided by the policy. Such insurance policy(ies) shall be primary and non-contributory in favor of the indemnified parties."

- Page 175 - Immediately following this page, insert new pages 175A through 175F (6 pages) which are attached hereto and made a part hereof.
- Page 303 - Immediately following this page, insert new pages 303A through 303H (8 pages) which are attached hereto and made a part hereof.

REVISED CONTRACT DRAWINGS

Drawings G003, S010, S011, S012, S033 and S037 have been revised as of 6/18/18. Copies of these drawings are forwarded herewith on CD. Destroy the drawings of these numbers now in your possession and substitute therefor the revised drawings.

THE PORT AUTHORITY OF NEW YORK AND NEW JERSEY

James Starace, P.E.
Chief Engineer/Director

INITIALLED BY THE BIDDER:

4. COMPARISON OF BIDS

Bids will be compared on the basis of the total of the following amounts herein referred to as the "Total":

A. The amount equal to the Lump Sum for Unclassified Work inserted by the bidder in "B" of the clause entitled "Contractor's Compensation", plus.	A. _____ ³
B. An amount equal to the Estimated Total for Classified Work, plus	B. _____ ³
C. An amount ⁴ equal to the percentage inserted by the bidder in "C" of the clause entitled "Contractor's Compensation" times 4,050,000 _____ % x 4,050,000, plus	C. _____
D. An amount equal ⁴ to 4,050,000	D. <u>4,050,000</u>
Total	\$ _____

Such "Total" shall be computed by adding the amounts in A, B, C and D above whether or not such amounts are correctly shown in the Contractor's Bid.

Such "Total" is for the purpose of fixing the amounts of security to be maintained by the Contractor for the faithful performance of the Work. Prior to the signature of the Contract by the parties, it was for the purpose of facilitating the comparison of Bids and of computing damages in the event of a default by the successful bidder in the agreement created by the acceptance of his Bid.

³ The bidder shall insert the same amounts inserted by the bidder in the clauses entitled "Contractor's Compensation" and "Unit Prices" and shall perform the computations to compute the "Total". In case of discrepancy between the amounts inserted by the bidder in the clauses entitled "Contractor's Compensation" and "Unit Prices" and the amounts inserted herein, the amounts in the clauses entitled "Contractor's Compensation" and "Unit Prices" shall control. The amounts inserted by the bidder in the clauses entitled "Contractor's Compensation" and "Unit Prices" and amounts computed in accordance with such clauses will be used to determine the Contractor's Compensation.

⁴ Such amount is given solely as a basis for computation of the "Total". The Authority makes no representation as to what the actual amount will be and shall not be held responsible even though the amount is not even approximately correct. Insofar as the Contractor's Compensation is based upon Net Cost Work, it will be computed from the actual amount of Net Cost Work performed, as determined by the Engineer, whether greater or less than the amount.

DIVISION 2

SECTION 02093

INCIDENTAL DISTURBANCE OF LEAD-CONTAINING PAINT

PART 1. GENERAL

1.01 SUMMARY

- A. This Section specifies requirements for the incidental disturbance of lead-containing paint (LCP) when necessary to perform the Work under this Contract.

1.02 REGULATORY REQUIREMENTS

- A. Comply with the requirements of all applicable Federal, State, and City laws, codes and regulations including, at a minimum, the regulations of the:
 - 1. United States Environmental Protection Agency (USEPA).
 - 2. Occupational Safety and Health Administration (OSHA).

1.03 QUALIFICATIONS AND EXPERIENCE

- A. Entity Performing Lead Paint Incidental Disturbance
 - 1. For Work that may result in the incidental disturbance of LCP, the contractor certification required for Work in New Jersey under the "Lead Hazard Evaluation and Abatement Code for Steel Structures and Commercial Buildings", N.J.A.C. 5.17-2.1 shall not be required, as per N.J.A.C. 5.17-2.1 (c)(3), provided that the entity performing Work of this Section does not represent himself as a lead paint abatement contractor.
- B. Laboratory Qualifications
 - 1. Verify that the analytical laboratories performing sampling and testing required under this Section are accredited by The American Industrial Hygiene Association (AIHA), and have successfully participated (within previous 12 months) in the AIHA Environmental Proficiency Analytical Testing (ELPAT) program. New Jersey Department of Environmental Protection (NJDEP) specific certifications required for Work in New Jersey shall include the "Environmental Laboratory Certification Program" (NELAP) or N.J.A.C. 7:18 (as amended April 20, 2015) "Regulations Governing the Certification of Laboratories and Environmental Measurements".
- C. Competent Person/Supervisor performing lead paint incidental disturbance shall possess:
 - 1. Proof of completion of 29 CFR 1926.62 "Lead in Construction" training.
 - 2. Proof of training under the Resource Conservation and Recovery Act (RCRA), in accordance with 40 CFR 265.16.

- D. Workers performing lead paint incidental disturbance shall have proof of completion of training required by 29 CFR 1926.62.

1.04 QUALITY ASSURANCE

- A. Waste Handling Plan: Prepare a waste handling plan that addresses the proper handling and disposal of all waste as specified in 3.03 of this Section.
- B. Contingency Procedures Program: Submit a contingency procedures program to respond to fires, explosions, or any unplanned sudden or non-sudden release of hazardous waste or hazardous waste constituents to air, soil or surface water at the construction site. Include the following:
 - 1. Emergency plan describing arrangements agreed to by local police departments, fire departments, hospitals and state and local emergency response teams. Include an evacuation plan for workers. Describe signals to be used to begin evacuation.
 - 2. List of names, addresses and phone numbers of all persons qualified to act as emergency coordinators. Include a list of all emergency equipment at the construction site (fire extinguishers, spill control equipment, communications, alarm systems and decontamination equipment).
 - 3. Evidence that a copy of the emergency plan has been submitted to all local police departments, fire departments, hospitals, and state and local emergency response teams that may be called upon to provide emergency services.

1.05 SUBMITTALS

See Appendix "A" for submittal requirements.

PART 2. PRODUCTS

2.01 MATERIALS AND EQUIPMENT

- A. Furnish all equipment and materials needed to perform Work in accordance with the requirements of this Section. This may include ground covers, rigging, scaffolding, planking, containment materials, dust collection and ventilation equipment, High Efficiency Particulate Air (HEPA) vacuums, waste containers, monitoring and testing equipment, and personal protective equipment.

PART 3. EXECUTION

3.01 PROTECTION

- A. Ensure the Competent Person/Supervisor performs daily inspections of the Work area to ensure compliance with all requirements of this Section. A Written Compliance Program (WCP) shall be prepared in accordance with 29 CFR 1926.62 (e)(2)(i) and signed and sealed by a Certified Industrial Hygienist, who shall possess a valid certificate from the American Board of Industrial Hygiene. A copy of the WCP shall be made available at the construction site for review by all employees and interested parties.

- B. Housekeeping: In accordance with 29 CFR 1926.62 (h), clean accumulations of dust or debris containing lead daily and conduct all cleaning with HEPA-filtered vacuums. Containerize the debris for proper disposal. Apply hazardous waste labels to drums containing dust and debris. If testing indicates that these materials are non-RCRA hazardous, re-label drums as non-hazardous and furnish testing records supporting this determination to the Engineer.
- C. Employee Training and Information: In accordance with 29 CFR 1926.62 (l), provide initial and annual refresher site-specific training for all employees who may perform Work specified under this Section. Contractor shall ensure at all times that no visible emissions occur when performing Work on surfaces coated with LCP (i.e., welding, cutting, drilling, torching, grinding and installing clamps).

3.02 AMBIENT AIR MONITORING FOR LEAD

- A. High Volume Ambient Air Monitoring
 - 1. The Engineer may undertake high volume ambient air monitoring during incidental disturbance of LCP and clean-up activities when deemed necessary to confirm that LCP is not becoming airborne and emissions have not occurred. Take corrective actions as directed by the Engineer and at no additional cost to the Authority.

3.03 ON-SITE MANAGEMENT, TRANSPORTATION, AND DISPOSAL OF PAINT DEBRIS AND ANY OTHER WASTE GENERATED FROM THE WORK

- A. Containers
 - 1. Lead Paint Waste: Furnish DOT-approved containers of the appropriate size and type for the waste generated including, but not limited to, paint chips and protective clothing. Use containers that are resistant to rust and corrosion, (painted if constructed of steel), that have tight fitting lids or covers, and which are water resistant and leak proof.
 - 2. Construction Waste: Furnish containers for non-hazardous construction waste. Use containers that are free of loose debris when brought to the construction site.
 - 3. Spent Solvents: Furnish DOT-approved containers for spent solvents. Do not mix spent solvents with paint debris, water or other lead contaminated waste.
- B. Waste Sampling, Testing and Classification
 - 1. Sampling: Collect for analysis by the Authority, representative samples of waste stream generated by the incidental disturbance of LCP. Collect the samples under the observation of the Engineer.
 - 2. Testing (Hazardous Waste Determination)
 - a. Solid Waste: The laboratory will be directed and paid by the Authority to test the solid waste generated from Work under this Section for waste types including LCP chips, protective clothing and containment materials in accordance with 40 CFR 261, Appendix II, Method 1311, "Toxicity Characteristic Leaching Procedure" (TCLP) for lead, to determine if it exhibits the toxicity characteristic for lead.

C. Waste Handling, Packaging and Storage

1. Comply with 40 CFR 262 for the on-site handling, packaging and storage of all waste generated by Work under this Section. Waste types shall be handled and stored, separately. At a minimum, waste types shall include LCP chips, disposable protective gear, containment material, general construction waste and liquid solvents.
2. All paint debris shall be vacuumed and collected in DOT-approved 55-gallon drums at the end of each Work period. Paint debris shall include only paint chips and dust and shall not include any other construction debris, trash or chemical solvents. All disposable protective clothing and interior lining of the containment system shall be collected in DOT-approved drums at the end of each Work period.
3. Store waste only at locations designated by the Engineer. At the end of each Work period, at a minimum, inventory and transport hazardous waste to the 90-day-central-accumulation-storage-area designated by the Engineer and located within three miles of the construction site.
4. Transport all non-hazardous construction waste from the Work areas to the designated storage area. Verify that the waste is completely covered during transportation.
5. Maintain all drums in good operating condition with all lids and closing mechanisms intact and operational to prevent escape of debris by winds, spilling of contents and access by unauthorized personnel.
6. Store non-hazardous waste separately from hazardous waste. Do not mix hazardous waste with non-hazardous waste. Do not mix different types of hazardous waste unless specifically approved by the Engineer.
7. Train all personnel in the proper handling of hazardous waste at the construction site in accordance with 29 CFR 1910.120, including the procedures to follow in the event of a release or spill, required notifications and methods of clean-up. Maintain all training records on-site.

D. Labeling of Containers

1. Immediately label all containers of waste and paint debris to identify the contents. Label containers of paint debris as "LEAD PAINT WASTE, CONTAINS LEAD". Include the Contract number and locations. Provide similar labels on containers of other waste and debris.

E. Waste Transportation and Disposal

1. Contractor shall ensure all waste is prepared for transport in accordance with all local, State and Federal regulations and all waste documents are completed and submitted for review by the Engineer.
2. Contractor shall transport waste only to facilities approved by the Engineer.
3. Contractor shall notify the Engineer two days prior to removing any waste off-site.

F. Cleaning of Haul Routes

1. Clean waste transportation haul routes upon completion of operation at end of each hauling.

END OF SECTION

SECTION 02093

INCIDENTAL DISTURBANCE OF LEAD-CONTAINING PAINT

APPENDIX "A"

SUBMITTALS

Submit the following in accordance with the requirements of "Shop Drawings, Catalog Cuts and Samples" of Division 1 - GENERAL PROVISIONS:

Catalog Cuts

02093B01 Catalog cuts for all equipment used in the performance of the Work.

Qualifications

- 02093K01 Qualifications, experience and certification information for the laboratories as specified in 1.03 of this Section.
- 02093K02 Qualifications and certification information for the competent person/supervisor, as specified in 1.03 of this Section.
- 02093K03 Qualifications and certification information for the workers, as specified in 1.03 of this Section.
- 02093K04 Names, addresses, qualifications and contact persons for the transporter(s) of hazardous waste, non hazardous waste and waste water. Furnish evidence that each transporter has current registration approved by NYSDEC and/or DOT, as applicable.
- 02093K05 Name, address, telephone number and contact person for each waste disposal facility used in the Contract. Furnish evidence that each disposal facility has current registrations and permits for the operation of such facilities, or written approval from the state (and by the USEPA or other local agency, if applicable) in which it operates.

Record Documents

- 02093M01 Waste Handling Plan that addresses the proper handling and disposal of all waste as specified in 1.04 of this Section.
- 02093M02 Contingency Procedures program, as specified in 1.04 of this Section.
- 02093M03 Copy of signed manifests for each load of waste material transported from the construction site. Furnish the manifest within one day of shipment.
- 02093M04 Copy of executed waste manifest form signed by a responsible party of the disposal facility. Furnish the form within one day of receipt. If the copy is not received within 35 days from the date of shipment, contact the Engineer, and assist as directed, in efforts to locate the manifest, and in the completion of the EPA Exception Reports.

02093M05 Certificate of final disposal for each manifest or certificate of recycling for recycled material. Furnish the certification within one day of receipt.

Contact Information

02093P01 Project Specific Chain of Command - Show on Chain of Command form(s) office, beeper, mobile and home telephone numbers of persons having the authority to dispatch personnel to the construction site and commit such persons to the tasks as directed by the Engineer. At a minimum include numbers for Project Supervisor, Competent Person and CIH.

END OF APPENDIX "A"

DIVISION 2

SECTION 02842

TEMPORARY TRAFFIC BARRIERS

PART 1. GENERAL

1.01 SUMMARY

- A. This Section specifies requirements for temporary traffic barriers.
- B. Coordinate the Work of this Section with the requirements of "Maintenance of Traffic and Work Area Protection" of Division 1 - GENERAL PROVISIONS.
- C. Materials and constructions of this Section constitute temporary facilities that are and shall remain the property of the Contractor unless otherwise shown on the Contract Drawings.

1.02 REFERENCES

The following is a listing of the publications referenced in this Section:

American Society for Testing and Materials (ASTM)

ASTM A 36	Structural Steel
ASTM A 123	Zinc (Hot-Dip Galvanized) Coatings on Iron and Steel Products
ASTM A 307	Carbon Steel Externally Threaded Standard Fasteners
ASTM D 1751	Preformed Expansion Joint Fillers for Concrete Paving and Structural Construction (Nonextruding and Resilient Bituminous Types)

West Coast Lumber Inspection Bureau (WCLIB)

Standard Grading Rules

1.03 SUBMITTALS

Refer to Appendix "A" for submittal requirements.

PART 2. PRODUCTS

2.01 MATERIALS

- A. General

Provide new materials or, if acceptable to the Engineer, undamaged previously used materials in serviceable condition conforming to requirements specified in this Section. Provide materials suitable for the use intended.

- B. Precast Concrete Barriers
 - 1. White Portland cement proportioned to produce 3000 psi reinforced concrete.
 - 2. Joint fillers shall conform to ASTM D 1751
- C. Timber Barriers and Curbs
 - 1. Lumber
 - Douglas Fir or Hem-Fir, WCLIB Standard Grade, Dressed on 4 sides (S4S).
 - 2. Penetrating Sealer
 - Transparent colorless wood sealer which is effective in retarding transmission of moisture at cross-grain cuts and which shall not interfere with paint finish.
 - 3. Paint Finish
 - Exterior alkyd resin reflectorized paint in colors shown on the Contract Drawings.
- D. Connector, Anchors, Accessories
 - Fabricated ASTM A 36 shapes, plates and bars welded into assemblies required, with ASTM A 307 steel bolts, lag bolts and other fasteners as required. Finish each assembly and fastener with ASTM A 123 hot-dip zinc coating.
- E. Concrete Barrier Flags
 - Aluminum, 6 x 6 inch, with weather-resistant reflective silver sheet suitable for daylight and night hours.
- F. Concrete Barrier Lights
 - High intensity flashers of type specified in "Maintenance of Traffic and Work Area Protection" of Division 1 - GENERAL PROVISIONS.
- G. Timber Barrier Markers
 - Light-retroreflective markers as shown on the Contract Drawings.

2.02 CONSTRUCTION FEATURES

- A. Fabricate exposed traffic approach end of barriers with a gradual taper with no blunt ends, arranged to redirect the path of a vehicle parallel to the line of normal traffic flow.
- B. Fabricate concrete barriers with a cross section of a portable, concrete safety shape barrier as shown on the Contract Drawings.
 - 1. Fabricate in lengths of 20 feet or less with the rectangular footing cut out at regular intervals to ensure storm water runoff.
 - 2. Furnish connections at vertical joints that will develop the full strength of the barrier system and ensure that the individual elements are aligned to provide a smooth, continuous barrier face.
 - 3. Provide barrier lights as shown on the Contract Drawings.

- C. Fabricate timber barriers and curbs of type and size shown on the Contract Drawings. Paint as shown on the Contract Drawings, or if not shown, paint white with rails of alternating orange and white stripes that slope down toward the side on which traffic is to pass. All paint shall be reflectorized.

PART 3. EXECUTION

3.01 PREPARATION

Provide and place temporary traffic control devices in accordance with the requirements of "Maintenance of Traffic and Work Area Protection" of Division 1.

3.02 INSTALLATION

- A. Install barriers and curbs at locations shown on the Contract Drawings.
- B. Provide bituminous pavement shimming and leveling as required to ensure smooth, continuously aligned barriers and curbs.
- C. Provide 1/2 inch wide joints between ends of barriers and curbs. At concrete barriers, fill joint with premolded bituminous joint filler.
- D. Secure barriers against lateral displacement by use of drift pins or anchor bolts drilled into roadway surface.
- E. Connect, and continuously operate, concrete barrier lights.

3.03 ADJUSTMENTS

- A. Maintain, clean, relocate and replace barriers and curbs as required to protect motorists, pedestrians and workers throughout the Work of this Contract.
- B. Remove barriers away from Authority property, when the need has ended, when replaced by approved use of permanent construction, or when directed by the Engineer.
- C. Complete, or if necessary, restore permanent construction. Replace construction that cannot be satisfactorily repaired. Remove temporary paving that is not intended for or acceptable for integration into permanent paving.

END OF SECTION

SECTION 02842

TEMPORARY TRAFFIC BARRIERS

APPENDIX "A"

SUBMITTALS

Submit the following in accordance with the requirements of "Shop Drawings, Catalog Cuts and Samples" of Division 1 - GENERAL PROVISIONS:

Shop Drawings

02842A01 Submit shop drawings of concrete barriers, including details of vertical joint connections, and details of proposed method of relocating concrete barriers in accordance with the requirements of "Shop Drawings, Catalog Cuts, and Samples" of Division 1 – GENERAL PROVISIONS.

END OF APPENDIX "A"

DIVISION 2

SECTION 02846

TEMPORARY WATER-FILLED BARRIER

PART 1. GENERAL

1.01 SUMMARY

- A. This Section specifies requirements for temporary water-filled barriers.
- B. Coordinate the Work of this Section with the requirements of "Maintenance of Traffic and Work Area Protection" of Division 1 - GENERAL PROVISIONS.
- C. Materials and constructions of this Section constitute temporary facilities that are and shall remain the property of the Contractor unless otherwise shown on the Contract Drawings.

1.02 REFERENCES

The following is a listing of the publications referenced in this Section:

<u>American Society for Testing and Materials (ASTM)</u>	
ASTM A 36	Structural Steel
ASTM A 123	Zinc (Hot-Dip Galvanized) Coatings on Iron and Steel Products
ASTM A 307	Carbon Steel Externally Threaded Standard Fasteners

1.03 SUBMITTALS

Refer to Appendix "A" for submittal requirements.

PART 2. PRODUCTS

2.01 CONSTRUCTION FEATURES AND MATERIALS

A. General

Provide new barriers and materials or, if acceptable to the Engineer undamaged previously used barriers and materials in serviceable condition conforming to the requirements specified in this Section.

After delivery, a construction site inspection of the barrier and equipment will be made by the Engineer. If any barrier or equipment has been damaged or if, for any reason, the barrier or equipment does not comply with the requirements herein, the Contractor shall repair or replace the barrier and equipment at its own cost and expense, even though the equipment had been inspected for shipment. After such satisfactory replacement and/or repair and subsequent Engineer written approval, the barrier shall be installed.

B. Water-Filled Barriers

Shall be manufactured by Energy Absorption System Inc., or approved equal, and be installed in alternating white and orange sections.

C. Barrier Reflectors

Barrier reflectors shall be installed as specified by the manufacturer, or as shown on the Contract Drawings. Reflectors shall be high intensity reflectorized, with the color, white or yellow, matching the pavement edgeline, or as shown on the Contract Drawings.

D. Barrier Lights

Install low intensity steady burn type C barrier lights as specified by the manufacturer or as shown on the Contract Drawings.

E. Glare / Gawk Shield

Install glare / gawk shield as specified by the manufacturer or as shown on the Contract Drawings.

PART 3. EXECUTION

3.01 PREPARATION

Protect the installation, maintenance, relocation and removal by providing and placing temporary traffic control devices in accordance with the requirements of the specification titled "Maintenance of Traffic and Work Area Protection" in Division 1.

3.02 INSTALLATION

A. Install barriers at locations shown on the Contract Drawings, in alternating white and orange sections.

B. Approach ends of barriers shall be flared away from traffic at a rate of 10 to 1 or flatter or as shown on the Contract Drawings. End treatment shall be provided by leaving the water out of the first section, and the pin out of the exposed end, or as specified by the manufacturer.

C. Secure barriers against lateral displacement by use of drift pins or anchor bolts drilled into roadway surface or as shown on the Contract Drawings.

D. Install reflectors and lights as specified herein, or as shown on the Contract Drawings.

3.03 MAINTENANCE

A. Maintain, clean, relocate and replace barriers, reflectors and lights as required to protect motorists, pedestrians, and workers throughout the Work of this Contract.

3.04 REMOVAL

- A. Remove barriers away from Authority property, when the need has ended, when replaced by approved use of permanent construction, or when directed by the Engineer.
- B. Restore damaged permanent construction and replace construction that cannot be satisfactorily repaired, all at no additional cost to the Authority.

END OF SECTION

SECTION 02846

TEMPORARY WATER-FILLED BARRIER

APPENDIX "A"

SUBMITTALS

Submit the following in accordance with the requirements of "Shop Drawings, Catalog Cuts and Samples" of Division 1 - GENERAL PROVISIONS:

Shop Drawings

02846A01 Shop Drawings detailing departures from the Standard Drawings included in the Contract Documents.

Catalog Cuts

02846B01 Proposed equipment Catalog Cuts and procedures to be used for installing, maintaining, relocating and removing the barrier(s).

Certificates

02846E01 Certification from the water-filled barrier supplier stating that the water-filled barriers meet the requirements of the Contract Drawings.

END OF APPENDIX "A"