BOBBY JINDAL
GOVERNOR

STATE OF LOUISIANA
DEPARTMENT OF TRANSPORTATION AND DEVELOPMENT
P.O. Box 94245
Baton Rouge, Louisiana 70804-9245
www.dotd.la.gov
{put your office/section's telephone number here}

WILLIAM D. ANKNER, Ph.D.
SECRETARY

TELEPHONE NUMBER (225) 379-1485

February 27, 2008

STATE PROJECT NOS. 005-10-0037, 006-01-0021, 006-02-0064,
006-25-0001, 006-30-0041, 063-03-0051, 063-04-0035
HUEY P. LONG BRIDGE WIDENING
(WESTBANK AND EASTBANK APPROACHES AND MAIN BRIDGE DECK WIDENING)
ROUTE US 90
JEFFERSON PARISH

SUBJECT: ADDENDUM NO. 6 (CONSTRUCTION PROPOSAL REVISIONS)
ELECTRONIC BIDDING AMENDMENT NO. 1

Gentlemen:

Attached are the construction proposal revisions dated 02/27/08 on the captioned project for which bids will be received on Wednesday, March 19, 2008.

The following changes have been made:

1. Revised the following Special Provisions:
   a. Right-of-Way under Special Notices to Contractors.(1 page)
   b. Coordination with Superstructure Contract under Special Notices to Contractors.(1 page)
   c. Control of Work. (2 pages)
   d. Removing or Relocating Structures and Obstructions.(2 pages)
   e. Structural Metals. (1 page)
   f. Painting and Protective Coatings (1 page)
   g. Paints. (2 pages)
   h. Cooperation with Utilities. (3 pages)
   i. Item S-044, Removal of Structures and Obstructions.(3 pages)
   j. Item S-045, Removal of Main Bridge Existing Roadway Deck and Floor System(1 page)
   k. Item S-046, Removal of Eastbank Existing Highway Superstructure(1 page)
   l. Item S-047, Removal of Westbank Existing Highway Superstructure(1 page)
   m. Item S-048, Removal of Jefferson Highway Overpasses.(1 page)
   n. Item S-101, Cleaning, Painting and Waste Disposal/Recycling of Existing Bridge Metalwork Faying Surfaces. (14 pages)
   o. Item S-123, Structural Metalwork (Erect).(1 page)
   p. Item S-125, Soil Borings. (7 pages)
   q. Items S-301 thru S-307, Water Relocation. (1 page)
   r. Items S-741-01 thru S-741-05, S-741-13, and S-741-15, Water Relocation. (1 page)

FOR INFORMATION ONLY

2. Revised the "Insurance" Section of the New Orleans Public Belt Railroad Requirements(1 page)
3. Revised the Schedule of Items as follows:(63 pages)
   a. Added the following items:
      i. Item 202-01, Removal of Structures and Obstructions.
      ii. Item 304-05, Lime Treatment (Type E).
      iii. Item 401-02, Aggregate Surface Course (Adjusted Vehicular Measurement)
      iv. Item S-741-01-K, Water Line (8" Ductile Iron).
      v. Item S-741-01-L, Water Line (14" Ductile Iron).
      vi. Item S-741-02-F, Gate Valve (14" w/Cover).
   b. Deleted Item 401-01, Aggregate Surface Course(Net Section).
   c. Revised the description of the following items:
      i. Item S-011, Impact Attenuator (Kinetic) (L18E 850+01).
      ii. Item 736-05-A, Signal Head (3-Section, 12" LED Lens, R Y G).
      iii. Item 736-06, Signal Service (Pedestal Mounted).
      iv. Item 736-12-A, Conductor (2c, Loop Lead-In /#14 AWG Stranded and Shielded).
      v. Item S-305-B, Fire Service Taps (8" C-900).
      vi. Item S-742-01-G. Sanitary Sewer Pipe (24" PVC)(Depth: Over 12'-0").
   d. Revised the quantities of the following items:
      i. Item 203-02, Drainage Excavation.
      ii. Item 701-03-G, Storm Drain Pipe (18" RCP/PCP).
      iii. Item 701-03-I, Storm Drain Pipe (24" RCP/PCP).
      iv. Item 702-02-B, Manholes (R-CB-11).
      v. Item 705-06-D, Chain Link Fence (7-Foot Height).
      vi. Item 711-02-C, Riprap (30 lb.).
      vii. Item 711-04, Geotextile Fabric.
      viii. Item 713-04-B, Temporary Pavement Markings (Broken Line) (4" Width) (10' Length).
      ix. Item 726-01, Bedding Material.
      x. Item 728-01-A, Jacked or Bored Pipe (24" RCP, Class III).
      xi. Item 804-03-G, Steel Piles (HP 14X89).
      xii. Item 804-03-I, Steel Piles (HP 14X117).
      xiii. Item 804-09, Loading Test Piles.
      xiv. Item 804-17, Dynamic Monitoring.
      xv. Item 805-01, Class A Concrete.
      xvi. Item 805-01-F, Class A Concrete (Bents).
      xvii. Item 805-08-C, Precast-Prestressed Concrete Girder (Type III).
      xviii. Item 805-11, Strip Seal Joints.
      xvix. Item 814-03, Permanent Casing.
      xx. Item S-203, Sewer Manholes (Dia. 4')(Depth: Under 10'-1").
      xxi. Item S-207, Removal of Sewer Manholes.

FOR INFORMATION ONLY

Please note these revisions and substitute the construction proposal returnables (pages L-1 thru L-62) and add L-63) in the proposal previously furnished you and bid accordingly. If bidding electronically, all amendments must be downloaded to this project prior to placing the on-line bid with Bid Express.

Very truly yours,

Randal Sanders
Contracts and Specifications Engineer

Attachments
pc. (letter only)
Mr. Bryan Buckel
Mr. Michael Stack
Mr. Ray Mumphrey
Mr. Lloyd E. Porta, Jr.
Mr. Bill Grice
Mr. Dale McDaniel - LTM
Mr. Juan Murillo – LTM
Mr. P. J. Frederick- LTM
Modjeski and Masters – Attn.: Mr. Cullen Ledet

FOR INFORMATION ONLY

RIGHT-OF-WAY: The Department is still in the process of purchasing Right-of-Way. Special Provision S-044, Removal of Structures and Obstructions, contained elsewhere within, provides the expected date of vacancy for certain parcels. The associated structures or obstructions cannot be removed until the designated workaround date.

COORDINATION WITH SUPERSTRUCTURE CONTRACT: The widening of the Main Bridge Superstructure is currently being constructed under S. P. No. 006-01-0018, Main Bridge Superstructure Fabrication and Erection contract. The anticipated completion of the Superstructure Contract is February 25, 2012. This completion schedule defines a minimum 18-month period for the time needed for completion of the Main Decking Widening. Tie-in of the new approaches and all traffic shifts is defined in the Sequence of Construction. The Main Bridge Superstructure contractor plans to use Existing Railroad Bents Nos. 1W and 2W to provide access to the main spans for workers and utilities. The contractor shall perform approach work so as to not interfere with this access.

CONTROL OF WORK: Section 105 of the 2000 Standard Specifications and the Supplemental Specifications thereto is amended as follows:

Subsection 105.02, Plans and Working Drawings is amended to include the following.

Selected drawings of substructure widening plans, original bridge plans, location of borings, and core borings and test piles are included in the contract plans as supplemental drawings to furnish the contractor with general information only, and are not to be considered as binding on the Department regarding any conditions that may be actually found to exist during the construction of this work. The contractor should visit the site, secure full information relative to the work presently under construction, and obtain such additional information as may be needed to bid the work. Complete details of the substructure construction are contained in the substructure contract plans (State Project No. 006-01-0012), and are available for examination at the office of the Bridge Design Engineer in Baton Rouge and at the office of Modjeski and Masters in New Orleans.

The contractor will be furnished sufficient copies of the substructure plans for his use following award of the contract.

Subsection 105.07, Cooperation Between Contractors, is amended to include the following.

This contract is fourth in a series of contracts for construction work on a river crossing and approaches for this project. During the progress of the work under this contract it will be necessary for other contractors to do work on the site, and this contractor will be required to cooperate with those other contractors.

The contractor shall conduct his operations so as not to impede or interfere with the work of other contractors in order that they may complete their work at the earliest possible date.

The Project Engineer will decide any disputed question regarding priority of access to and use of the site and priority of berthing area.

Subsection 105.08, Construction Stakes, Lines, and Grades, is amended as follows.

The contractor shall employ sufficient qualified engineering personnel experienced in the layout and construction of bridges to correctly establish and keep complete and comprehensive notebook records of all lines and grades necessary during construction of the superstructure, from initial layout to final acceptance, from the information provided on the project plans or revisions thereof as may be approved.

No survey data will be furnished by the Department of the final location and elevations of units of the substructure after construction of those units has been completed. As soon as the widening of Pier A and IV are completed, the contractor shall, at his expense, survey the span lengths, bridge seat elevations and anchor bolt locations, and shall furnish the Project Engineer with a drawing showing as-constructed dimensions and elevations. If there are minor deviations from plan dimensions and elevations, the contractor shall propose suitable adjustments to accommodate such deviations, subject to approval by the Project Engineer.

No direct payment will be made for performing the work required herein.

Subsection 105.17, Acceptance, is amended as follows.

Heading (b), Final Acceptance, is deleted and the following substituted.

Upon notice from the contractor of presumptive completion of the entire project, the Project Engineer will make an inspection along with the Chief Engineer of the New Orleans Public Belt Railroad or a representative designated by the Chief Engineer. When the work provided for in the contract is found satisfactorily completed by both the Project Engineer and the New Orleans Public Belt Railroad, that inspection will constitute the final inspection. The Project Engineer will make final acceptance and notify the contractor in writing of this acceptance as of the date of final inspection.

When the inspection discloses any required work, condition of New Orleans Public Belt Railroad right of way, impacted utilities, or other impacted New Orleans Public Belt Railroad facilities as indicated by the New Orleans Public Belt Railroad and/or the Project Engineer as being unsatisfactory, the Project Engineer will give the contractor instructions for correction of same. The contractor shall immediately comply with such instructions. Upon correction of the work, another inspection will be made which will constitute final inspection provided the work has been satisfactorily completed. In such event, the Project Engineer will notify the contractor in writing of this acceptance as of the date of final inspection.

REMOVING OR RELOCATING STRUCTURES AND OBSTRUCTIONS: Section 202 of the 2000 Standard Specifications and Supplemental Specifications thereto is amended to add the following heading.

(i) Removing Existing Bridge Metalwork (Demolition) and Salvaging: This Work consists of the removal of existing bridge metalwork as shown on the contract plans and provides for the mandatory scrapping and recycling of the removed metalwork by a scrap yard approved by the project engineer. The scrap yard shall be advised in writing that the existing coatings on the bridge metalwork are known to contain high levels of lead and chromium and may contain other possibly hazardous substances.

The contractor is therefore warned and advised that the existing coatings on the bridge are known to contain high levels of lead and chromium and may contain other possibly hazardous substances. It shall be the contractor's responsibility to identify and comply with all applicable Federal, State, and Local laws, rules, regulations and ordinances with respect to disturbance of these materials containing potentially hazardous substances. See Item S-101, "Cleaning, Painting and Waste Disposal/Recycling of Existing Bridge Metalwork Faying Surfaces" for additional information and requirements regarding (1) worker safety and (2) environmental protection.

Rivet or Bolt Removal: All rivet or bolt removal from the existing bridge shall be accomplished by mechanical means. Torch cutting of rivets will not be allowed. Rivet removal from lead coated structures is an OSHA trigger task with a presumed lead exposure level and all provisions of CFR 1926.62 shall apply. Red lead paint was also applied to the faying surfaces of all connections when originally constructed; therefore, lead based paint is present at all metalwork connections between plies and under rivet heads on all portions of the bridge. To minimize worker lead exposure as required by OSHA regulation it shall be required that prior to any rivet removal, the coating on and at least 1 inch around each end of the rivet shall be removed. This paint removal and resulting waste disposal shall be subject to the same requirements as specified for Item S-101, "Cleaning, Painting and Waste Disposal/Recycling of Existing Bridge Metalwork Faying Surfaces" except that the removal technique may be changed provided the same level of containment and waste recycling is accomplished.

Torch Cutting of Metalwork: Torch cutting on lead coated structures is an OSHA trigger task with a presumed lead exposure level and all provisions of CFR 1926.62 shall apply. At a minimum, employees performing such operations in the open air shall be protected by filter-type respirators in accordance with the requirements of subpart E of 29 CFR 1926. Other employees exposed to the same atmosphere as the welders or burners shall be protected in the same manner as the welder or burner. To minimize worker lead exposure levels by engineering control, as required by OSHA regulation, it shall be required at a minimum that prior to any torch or flame cutting of single ply metalwork, an area 6 inches on each and all sides of the cut line shall have all the paint removed. This paint removal and waste disposal shall be subject to the same requirements as specified for Item S-101, "Cleaning, Painting and Waste Disposal/Recycling of Existing Bridge Metalwork Faying Surfaces" except that the removal technique may be changed provided the same level of containment and waste recycling is accomplished.

Torch or flame cutting across multiple plies of metalwork is prohibited. Disassembly or mechanical cutting is required.

Mechanical Cutting of Metalwork: Mechanical cutting of existing coated metalwork shall be subject to the same lead emission levels limits as established by Environmental Air Monitoring as specified in Item S-101, "Cleaning, Painting and Waste Disposal/Recycling of Existing Bridge Metalwork Faying Surfaces" and all provisions of CFR 1926.62 shall apply. Should specified lead emission levels be exceeded appropriate containment measures shall be employed to reduce emissions to the established levels.

Cleaning and Painting: All existing bridge metalwork that is to remain from which existing paint has been removed and/or which have uncoated cut surfaces or exposed faying surfaces due to member or component removal shall be abrasive blast cleaned and painted with the Corrosion Inhibiting Alkyd Paint System , System B as described in Section 811 of the Special Provisions.

Payment for paint removal prior to dismantling and for cleaning and painting following metalwork removal shall be made under Item Nos. S-101, S-046 and S-047.

STRUCTURAL METALS: Section 807 of the 2000 Standard Specifications and the supplemental specifications thereto is amended as follows.

Subsection 807.08 Straightening Material and Curving Rolled Beams and Welded Girders is amended as follows. The third sentence of the paragraph in Heading (a) is deleted and the following is substituted.

Heat straightening of ASTM A 709, Grade 100 (A 709M, Grade 690), and A 709, Grade 100W (A 709M, Grade 690W) steel shall be done only under rigidly controlled procedures, each application subject to approval of the Project Engineer.

Subsection 807.21 Connections Using High Strength Bolts is amended as follows. The paragraph of Heading (e)(2) is deleted and the following substituted.

Subsection 807.30 Bent Plates is amended as follows. The fourth and fifth paragraphs are deleted and the following substituted.

Allowance for springback of ASTM A 709, Grade 100 (A 709M, Grade 690), and A 709, Grade 100W (A 709M, Grade 690W) steel should be about three times that for structural carbon steel. For brake press forming, the lower die span should be at least 16 times the plate thickness. Multiple hits are advisable.

If shorter radii are essential, plates shall be bent hot at a temperature not greater than 1150°F (620°C), except for ASTM A 709, Grade 100 (A 709M, Grade 690), and A 709, Grade 100W (A 709M, Grade 690W) steel. If ASTM A 709, Grade 100 (A 709M, Grade 690), and A 709, Grade 100W (A 709M, Grade 690W) steel plates to be bent are heated to a temperature greater than 1125°F (610°C), they must be requenched and tempered in accordance with the producing mill's practice. Hot-bent plates shall conform to the requirements herein for cold-bent plates.

Subsection 807.47 Straightening Bent Material and Cambering is amended as follows.

The first paragraph of Heading (a) is deleted and the following substituted.

Straightening of plates, angles, other shapes and built-up members, when permitted, shall be done by methods that will not produce fracture or other damage. Distorted members shall be straightened by mechanical means or, if approved, by supervised application of a limited amount of localized heat, except that heat straightening of ASTM A 709, Grade 100 (A 709M, Grade 690), and A 709, Grade 100W (A 709M, Grade 690W) steel shall be done only under rigidly controlled procedures, each application subject to approval of the Project Engineer. In no case shall the maximum temperature of ASTM A 709, Grade 100 (A 709M, grade 690), and A 709, Grade 100W (A 709M, Grade 690W) steel exceed 1125°F (610°C), nor shall the temperature exceed 950°F (510°C) at weld metal or within 6 inches (150 mm) of weld metal. Heat shall not be applied directly on weld material. In all other steels, the temperature of the heated area shall not exceed 1150°F (620°C) (a dull red) as controlled by temperature indicating crayons, liquids or bi-metal thermometers.

The paragraph of Heading (b) is deleted and the following substituted.

Correction of errors in camber in welded beams and girders of ASTM A 709, Grade 100 (A 709M, Grade 690), and A 709, Grade 100W (A 709M, Grade 690W) steel shall be done only under rigidly controlled procedures, each application subject to approval.

Subsection 807.53 Measurement is amended as follows. The eighth paragraph of Heading (a) is deleted and the following substituted.

ASTM A 709, Grade 36 (A 709M, Grade 250), A 709, Grade 50 (A, 709M, Grade 345), A 709, Grade 50W (A 709M, Grade 345W), A 709, Grade HPS 50W (A 709M, Grade HPS 345W), A 709, Grade HPS 70W (A 709M, Grade HPS 485W), A 709, Grade 100 (A 709M, Grade 690), or A 709, Grade 100W (A 709M, Grade 690W) steel shall include all steel classified as such in the plans or specifications.

PAINTING AND PROTECTIVE COATINGS: Section 811 of the Standard Specifications and Supplemental Specification is amended to include "Paint Analysis for Lead, Cadmium and Chromium" included elsewhere herein.

Subsection 811.01, Description, is hereby amended to delete the second paragraph and substitute the following.

Unless otherwise specified, the Corrosion Inhibiting Alkyd Paint System meeting the requirements of System B shall be used for coating steel members provided by others and other existing areas requiring painting. For the approaches to the main spans, new steel shall be painted with an approved zinc paint system.

Subsection 811.04, Painting Metal, is hereby amended to delete heading (c) and substitute the following.

(c) Corrosion Inhibiting Alkyd Paint System: Corrosion Inhibiting Alkyd Paint System shall be a non-polluting pigmented alkyd paint to be used in a three-coat paint system on properly prepared structural steel surfaces to be permanently exposed. The primer and intermediate coats shall be tinted for color contrast.

The minimum dry film thickness of the coatings shall be as follows:

Prime Coat	3.0 mils (50μm)
Intermediate (Prime) Coat	2.0 mils (50μm)
Aluminum Topcoat (or as otherwise specified)	2.0 mils (50μm) – AASHTO M69, Type I

Subsection 811.08, Application, is hereby amended to include the following.

Heading **(a)** is amended to read as follows. Three-Coat Waterborne Paint System or Corrosion Inhibiting Alkyd Paint System.

Subsection 811.08 **(a) (2),** Field Spot Painting, is deleted and the following substituted.

After final bolting of the widening member connections to the existing bridge metalwork is completed, all exposed inorganic zinc coated surfaces, the installed bolts, the existing painted surfaces of the original roadway brackets, and any damaged or other unprimed surfaces or exposed former faying surfaces to be field primed or painted shall be blast cleaned in accordance with Subsection 811.06**(b)** Near-White Blast Cleaning Method and painted with the approved primers and topcoat to a minimum total dry film thickness of 5 mils for the two prime coats and 2.0 mils for the topcoat. Each of the prime coats shall be allowed to cure 24 hours prior to applying the succeeding coats. The cleaning, paint removal and waste disposal shall be subject to the same requirements as specified for Item S-101, CLEANING, PAINTING AND WASTE DISPOSAL/RECYCLING OF EXISTING BRIDGE METALWORK FAYING SURFACES except that the removal technique may be changed provided the same level of cleaning, containment and waste recycling are accomplished.

Subsection 811.08(c)(3), Intermediate and Topcoat is amended to include the following.

It is mandatory that prior to field application of the intermediate coat and the topcoat that all primed metalwork surfaces shall be pressure washed at a minimum pressure of 3000 psi. All visible deposits of oil, grease, soil, or drawing or cutting compounds and other soluble contaminants shall be removed solvent cleaning in accordance with SSPC-SP1 Solvent Cleaning prior to pressure washing.

PAINTS: Section 1008 of the 2000 Standard Specification and Supplement Specifications thereto is amended as follows:

Subsection 1008.06, Corrosion Inhibiting Alkyd Paint System, is hereby deleted and the followig substituted.

The Corrosion Inhibiting Alkyd Paint System shall be a three-coat paint system applied to properly prepared structural steel surfaces that are permanently exposed to weather. The paint shall be compatible with basic lead silico chromate paint. System B shall be used. The corrosion inhibiting pigment in System B shall be calcium borosilicate. The primer and the intermediate coats shall be tinted for color contrast. An aluminum topcoat in accordance with AASHTO M69, Type I shall be applied, unless otherwise specified.

SPECIFIC REQUIREMENTS: Test methods shall be the latest in effect. The manufacturer assumes all responsibility in formulating products which meet these specifications.

System B shall comply with the following requirements.

PRIME COAT

Property	ASTM Test Method	Requirement Min.	Max
Pigment, % by wt	D2371	53	--
Vehicle, % by wt	D2371	--	47
Wt/gal, lb @ 77° F	D1475	11.4	--
Water, %		--	0.25
Coarse Particle and Skims (Total Residue Retained on No. 325 Sieve Based on Paint), %	D185	--	1.0
Fineness of Grind (North Std)	D1210	5	
Viscosity (Stormer-Krebs Units) @ 77 ° F	D562	75	85
Dry through, hours	D1640	18	--
Nonvolatile Vehicle, % by wt	D2369 D2372	57	--
Pigment			
Calcium Boro-Silicate	D4288	80.0%	--
Synthetic Iron Oxide	D84, Class I	16.0%	18.0%
Organo Montmorillonite		1.0%	2.0%
Vehicle			
Alkyd Resin, Solution	TT-R-266, Type I Class A	43.0%	50.0%
Linseed Oil		20.0%	27.0%
Mineral Spirits	TT-T-291E, Type II*	--	28.0%
Driers		1.0%	2.0%

*Small quantities of alcohols or alcohol/water mixtures may replace some mineral spirits where such materials are used as polar additives for the suspending aid.

INTERMEDIATE COAT

Property	ASTM Test Method	Requirement Min.	Max
Pigment, % by wt	D2371	44	--
Vehicle, % by wt	D2371	--	56
Wt/gal, lb @ 77 ° F	D1475	10.2	--
Water, %		--	0.25
Coarse Particle and Skims (Total Residue Retained on No. 325 Sieve Based on Paint), %	D185	--	1.0
Fineness of Grind (North Std)	D1210	5	
Viscosity (Stormer-Krebs Units) @ 77 ° F	D562	75	85
Dry through, hours	D1640	--	10
Nonvolatile Vehicle, % by wt	D2369 and D2372	45	--
Pigment			
Calcium Boro-Silicate	D4288	80.0%	--
Synthetic Iron Oxide	D84, Class I	17.5%	18.5%
Organo Montmorillonite		1.5%	2.5%
Lampblack		--	2.0%
Vehicle			
Alkyd Resin, Solution	TT-R-266, Type I Class A	65.0%	--
Mineral Spirits*	TT-T-291E, Type II*	--	34.0%
Driers		1.0%	1.5%

*Small quantities of alcohols or alcohol/water mixtures may replace some mineral spirits where such materials are used as polar additives for the suspending aid.

COOPERATION WITH UTILITIES: Subsection 105.06 of the Standard Specifications is amended to include the following.

Utility facilities will be removed, relocated, adjusted or abandoned in accordance with agreements between the Department and utility owners listed below. Starting dates for such work will be determined by the engineer and may be different for each utility and may not be underway concurrently with the contractor's work or with other utility relocations. Utility relocations can be within the construction limits covered by this contract. The furnishing of the following estimated completion times for utility work is for information purposes only and will not relieve the contractor of any requirements of this subsection nor will it preclude the granting of contract time credits in accordance with the provisions of this subsection. A utility company calendar day shall be the same as defined in Subsection 101.03 of the standard specifications.

UTILITY OWNER	Estimated Calendar Days After Clearing and Grubbing
Atmos Energy Corporation – Eastbank 3616 South I-10 Service Road, Suite 200 Metairie, LA 70001 Phone (504) 849-4349 Cell: (505) 849-4405 Attn.: Willlie Arnouville	180
Atmos Energy Corporation – Westbank 3616 South I-010 Service Road, Suite 200 Metairie, LA 70001 Phone: (504) 849-4349 Cell: (504) 849-4405 Attn.: Willie Arnouville	120
AT&T Corporation – Eastbank 804 Poydras Street, Room 1419 New Orleans, LA 70112 Phone: (504) 299-6650 Attn.: Treemeda Harris	45 Days after Entergy-Eastbank
AT&T Corporation – Westbank 1010 Hancock Street Gretna, LA 70053 Phone: (504) 364-6801 Cell: (504) 952-6206 Attn.: Lloyd Massey	30 days after Entergy-Westbank completed Bridge City Avenue
Cox Communications 2121 Airline Drive – 5th Floor East Metairie, LA 70001 Phone: (504) 303-8093 Cell: (504) 417-2023 Attn.: Ed Herrera	30 days after Entergy-Eastbank
Entergy Louisiana, Inc. – Eastbank P. O. Box 6100, Mail Unit L-Jeff-367 New Orleans, LA 70161 Phone: (504) 840-2513 Attn.: Glenn Scorsone	180
Entergy Louisiana, Inc. – Westbank P. O. Box 6100, Mail Unit L-VIR-680 New Orleans, LA 70161 Phone: (504) 365-3626 Cell: (504) 351-4878 Attn.: Guy Johnson	180
Entergy Transmission 639 Loyola Avenue, Mail Stop L-MOB-18D New Orleans, LA 70113 Phone: (504) 576-4442 Attn.: Russell Saliba	0

UTILITY OWNER	Estimated Calendar Days After Clearing and Grubbing
Jefferson Parish Water 1221 Elmwood Parkway, Engineering Division New Orleans, LA 70113 Phone: (504) 736-6512 Attn.: Mitch Theriot	Contractor to decide schedule
Southern Lights P. O. Box 2525 Mobile, AL 36652 Phone: (251) 583-1524 Attn.: Jason Wells	0
Time Warner Communications 301 Main Street, Suite 1250 Baton Rouge, LA 70801 Phone: (504) 620-9207 Cell: (504) 610-9559 Attn.: Dan Jackson	90 days after Entergy-Eastbank
Qwest Communications 12167 North Freeway Houston, TX 77060 Phone: (281) 877-0080 Cell: (916) 425-7647 Attn.: Ben Williams	0

ITEM S-044, REMOVAL OF STRUCTURES AND OBSTRUCTIONS:

This item consists of providing all material and labor needed to remove and dispose of items described herein. These items consist of, but are not limited to:

Eastbank

No.	Parcel Nos.	Type of Structure/ Obstruction	Station Location	Left/ Right	Description of Structure/Obstruction	Remarks
1-E	20-6	Billboard	136+00	Right	Billboard (Interstate) "Larre & Larre"	
2-E	20-7	Billboard	136+00	Left	Billboard (Marco) "Paradise Video"	
3-E	20-3	Commercial	134+00	Left	Building A - Metal clad Two story structure on concrete foundation with additional 954 sq. ft. Single story building.	Workaround until 08-31-08
4-E	20-3	Commercial	134+00	Left	Building B - Single story metal clad building on concrete slab.	Workaround until 08-31-08
5-E	20-4	Commercial	132+00	Left	Single story concrete block and steel framing with overhead bridge. Commercial building and two crane lifts.	Workaround until 5-31-08
6-E	20-4	Commercial	131+00	Left	Single story concrete panels and metal office commercial building and sign "industrial signs".	Workaround until 5-31-08
7-E	20-5	Commercial	139+50	Right	Tractor/trailer containers	Tractor/trailer containers have been removed by owner and do not required removal by the Contractor
8-E	21-8	Billboard	130+85	Left	Billboard (CBS outdoor) "Casino 500"	
9-E	21-7	Billboard	130+00	Right	Billboard (Interstate) "Cheap Warehouse"	
10-E	21-2	Commercial	129+90	Left	Two story metal commercial building on slab with metal shed, canopy on piers.	Workaround until 08-31-08
11-E	NOPB functional replacement area.	Commercial	140+00	Ctr	Pallets of metal scaffolding & movable metal storage building.	Workaround until 10-31-08
12-E	NOPB functional replacement area.	Commercial	127+00	Right	Oil and paint building (metal building on slab).	Workaround until 10-31-08

No.	Parcel Nos.	Type of Structure/ Obstruction	Station Location	Left/ Right	Description of Structure/Obstruction	Remarks
13-E	NOPB functional replacement area.	Commercial	126+50	Right	Employee Building	Workaround until 10-31-08
14-E	NOPB functional replacement area.	Commercial	126+00	Right	Single story brick building.	Workaround until 10-31-08
15-E	NOPB functional replacement area.	Commercial	125+00	Right	Two brick monument signs and flag pole.	Workaround until 10-31-08
16-E	NOPB functional replacement area	Commercial	125+00	Right	Single story brick commercial building. NOPB Admin. Building Functional Replacement	Workaround until 10-31-08
17-E	21-3	Commercial	125+00	Left	Two story concrete block and metal building on slab.	*
18-E	21-9	Billboard	120+00	Left	Billboard (Marco).	
19-E	22-2	Commercial	116+00	Left	Single story masonry office building with concrete foundation	Workaround until 08-31-08
20-E	22-4/ 22-4-C-1	Commercial	110+00	Left	Masonry building on slab	Removal to be completed within 6 months of NTP
21-E	23-2	Sign	107+69	Left	Commercial Sign "St. Charles Vision"	
22-E	25-3	Sign	113+00 Jeff. Highway	Right	"Entergy Brick Monument Sign"	

*Item 17-E has 1000 ft.^{2} of asbestos containing smooth transite panels in front upper facing; 6390 ft.^{2} of asbestos containing corrugated transite panels on exterior walls and roof; 150 linear feet of asbestos containing window glazing.

Parts of Nos. 11-E, 12-E, 13-E, 14-E, 15-E, and 16-E are of historical significance and will be removed by others. The Contractor shall not remove and dispose of the remaining structures from Nos. 11-E, 12-E, 13-E, 14-E, 15-E and 16-E before October 31, 2008 or as directed by the Project Engineer. Part of 16-E has approximately 240 ft.^{2} of asbestos containing heater flue throughout the ceiling.

Westbank

No.	Parcel Nos.	Type of Structure/ Obstruction	Station Location	Left/ Right	Description of Structure/Obstruction	Remarks
1-W	4-2-C-1 4-5-C-1	Obstruction	253+00 (+/-)	Right	12 wood light pole standards	
2-W	5-4	Billboard	241+50	Left	Billboard (CBS Outdoor) "Salvation Army"/"Canes"	
3-W	7-14	Billboard	231+50	Right	Billboard (Marco) "Bone Zone"	
4-W	7-3	Commercial	231+00	Right	6,030 sq ft. Single story commercial metal building & shop on slab	140 ft.^{2} of asbestos containing tan linoleum mastic in breakroom
5-W	7-15	Commercial	229+50	Left	5 wood light pole standards	
6-W	7-7	Billboard	226+50	Left	Billboard on Mono Pole "Crescent Trucks"	
7-W	7-10	Billboard	223+50	Right	Billboard on Mono Pole "Casino"/"M^{c}Donalds"	
8-W	14-2	Commercial	54+50 Bridge City Ave.	Left	Single story wood frame building on slab (square footage unknown).	**
9-W	7-2 & 14-2	Commercial	54+50 Bridge City Ave.	Left	Single story work frame building on slab (square footage unknown).	**

**Access denied by Property owner. No hazardous materials inspections performed.

Any slab or footing supporting the above structures shall be removed and disposed of. All existing piles supporting the above structures shall be cut a minimum of 3 feet below the final ground elevation, except as follows. Any existing piles which conflict with required piles to be driven shall be removed and disposed of; for bridge pile footings, existing building piling within an area 3' larger than the plan area of the footing shall be cut to a minimum of 10' below the final ground elevation; existing building piling under bridge pile supported approach slabs and new surface roadways shall be cut a minimum of 5' below the finish grade.

Any utilities providing services to the above structures shall be removed and disposed of.

Removal of Structures and Obstructions will be paid for at the contract price per lump sum, which shall include all material, tools, equipment, labor, and incidentals, and the performance of all work necessary to complete the item.

Payment will be made under:

Item S-044, Removal of Structures and Obstructions, per lump sum.

ITEM S-045, REMOVAL OF MAIN BRIDGE EXISTING ROADWAY DECK AND FLOOR SYSTEM: This item consists of providing all material and labor needed to remove and dispose of items required on the contract plans. These items consist of, but are not limited to:

- Removal of concrete roadway deck
- Removal of steel floor system subfloorbeams
- Removal of steel floor system stringers
- Removal of steel railing
- Removal of steel floor system expansion joints
- Removal of floorbeam tension straps

Removal under this item shall be subject to the limitations and prohibitions contained in the Special Provision for Section 202, "Removing or Relocating Structures and Obstructions" elsewhere herein.

Removal of Main Bridge Existing Roadway Deck and Floor System from Pier A to Pier IV will be paid for at the contract price per lump sum, which shall include all material, tools, equipment, labor, and incidentals, and the performance of all work necessary to complete the item.

Touch-up cleaning and painting of former main bridge metalwork connections which remain after removals shall be paid for and accomplished in accordance with Item S-101, Cleaning, Painting and Waste Disposal/Recycling of Existing Metalwork Faying Surfaces.

Payment will be made under:

Item S-045, Removal of Main Bridge Existing Roadway Deck and Floor System, per lump sum.

ITEM S-046, REMOVAL OF EASTBANK EXISTING HIGHWAY SUPERSTRUCTURE: This item consists of providing all material and labor needed to remove and dispose of items required on the contract plans. These items consist of, but are not limited to:

- Removal of concrete roadway deck
- Removal of steel floor system stringers
- Removal of steel cantilever highway brackets
- Removal of steel railing
- Removal of pile supported concrete substructure
- Removal of concrete abutments
- Removal of existing bridge sign located at abutment
- Touch-up cleaning and painting of existing metalwork with Corrosion Inhibiting Alkyd Paint System where damaged or where coating was removed or on cut surfaces where members or components have been removed. In lieu of the AASHTO M69 Type 1 leafing aluminum topcoat specified for the Corrosion Inhibiting Alkyd Paint System the topcoat paint to be applied shall be PSX 1001 Polysiloxane as manufactured by PPG/Ameron. Color shall be Gray RAL 7038.

Removal under this item shall be subject to the limitations and prohibitions contained in the Special Provision for Section 202, "Removing or Relocating Structures and Obstructions" elsewhere herein.

Removal of Eastbank Existing Highway Superstructure from Pier IV to ground will be paid for at the contract price per lump sum, which shall include all material, tools, equipment, labor, and incidentals, and the performance of all work necessary to complete the item.

Payment will be made under:

Item S-046, Removal of Eastbank Existing Highway Superstructure, per lump sum.

ITEM S-047, REMOVAL OF WESTBANK EXISTING HIGHWAY SUPERSTRUCTURE: This item consists of providing all material and labor needed to remove and dispose of items required on the contract plans. These items consist of, but are not limited to:

- Removal of concrete roadway deck
- Removal of steel floor system stringers
- Removal of steel cantilever highway brackets
- Removal of steel railing
- Removal of pile supported concrete substructure
- Removal of concrete abutments
- Removal of existing bridge sign located at abutment
- Touch-up cleaning and painting of existing metalwork with Corrosion Inhibiting Alkyd Paint System where damaged or where coating was removed or on cut surfaces where members or components have been removed. In lieu of the AASHTO M69 Type 1 leafing aluminum topcoat specified for the Corrosion Inhibiting Alkyd Paint System the topcoat paint to be applied shall be PSX 1001 Polysiloxane as manufactured by PPG/Ameron. Color shall be Gray RAL 7038.

Removal under this item shall be subject to the limitations and prohibitions contained in the Special Provision for Section 202, "Removing or Relocating Structures and Obstructions" elsewhere herein.

Removal of Westbank Existing Highway Superstructure from Pier A to ground will be paid for at the contract price per lump sum, which shall include all material, tools, equipment, labor, and incidentals, and the performance of all work necessary to complete the item.

Payment will be made under:

Item S-047, Removal of Westbank Existing Highway Superstructure, per lump sum.

ITEM S-048, REMOVAL OF JEFFERSON HIGHWAY OVERPASSES: This item consists of providing all material and labor needed to remove and dispose of items required on the contract plans. These items consist of, but are not limited to:

- Removal of concrete roadway deck
- Removal of precast, prestressed concrete girders
- Removal of curtain walls and approach slabs
- Removal of light standards
- Removal of concrete bents, footings, and cutoff of piles.

Removal under this item shall be subject to the limitations and prohibitions contained in the Special Provision for Section 202, "Removing or Relocating Structures and Obstructions" elsewhere herein.

Removal of Jefferson Highway Overpass will be paid for at the contract price per lump sum, which shall include all material, tools, equipment, labor, and incidentals, and the performance of all work necessary to complete the item.

Payment will be made under:

Item S-048, Removal of Jefferson Highway Overpass, per lump sum.

ITEM S-101, CLEANING, PAINTING AND WASTE DISPOSAL/ RECYCLING OF EXISTING BRIDGE METALWORK FAYING SURFACES: This item consists of cleaning and painting of all existing bridge metalwork faying surfaces at former stringer connections to the floorbeams of the existing Huey P. Long Bridge and any other miscellaneous metalwork connections where members or portions of members have been removed and paint removal prior to disassembly or removal of existing bridge metalwork as shown on the contract plans. Cleaning of the surface includes the removal of the existing lead and chromium containing coatings, corrosion, mill scale and any other contaminants and the establishment of the proper anchor profile on all metal surfaces, containing and collecting of the blast debris, temporary site storage of collected debris, sampling, testing, transporting and recycling of potentially hazardous materials and all other collected debris. Painting of the cleaned surfaces shall be with a DOTD approved inorganic zinc primer. All work shall be in accordance with the Project Plans, Standard Specifications and these Special Provisions.

General Requirements: The contractor is warned and advised that the existing coating system on the structure contains lead and chromium. Paint samples were taken from various locations on different elements on the main bridge metalwork. The samples were analyzed for lead, chromium and cadmium. Lead and chromium were found at varying concentrations. Lead is known to be present under rivet heads and on all faying surfaces. A report on the results of this paint sampling and testing is appended to the project specifications.

As actual conditions across the bridge may vary, the bidder is encouraged to take any additional samples for his own testing he feels may be required for the development of his bid. The contractor is further warned and advised that portions of the bridge metalwork have not been blast cleaned in the past and metalwork underlying the existing coating contains mill scale and has no anchor profile.

The contractor shall use recyclable steel abrasives for the blasting and cleaning operations which are to be conducted under containment. Collected blasting waste and dust collector waste shall be taken to a beneficial reuse facility such as a lead smelter as approved by the DOTD. Previously used and/or recycled abrasives from other projects shall not be used.

The Department will assume the role of "Generator" of the waste generated due to removal of lead paint from the existing structure and shall sign all manifests for all generated lead paint containing waste. The contractor shall be considered the "Co-Generator" of the lead containing waste and will also sign the manifests and shall share responsibility for proper controlling of the waste. The contractor shall submit to the New Orleans Public Belt Railroad (NOPBRR) copies of all manifests for transporting any lead paint containing waste removed from the existing bridge structure as a result of any work performed. The contractor shall also submit to the NOPBRR copies of the required certificates of recycling for the lead paint containing wastes.

Safety Standards: All personnel hired for work on this project, including those hired during the course of the work, shall be competent in their respective trades.

All personnel hired for work at the project site shall be examined in accordance with 29 CFR 1926.62(j) (3) (ii) (A)-(F) prior to employment for this project.

It shall be the contractor's responsibility to comply with all applicable federal, state, and local laws, rules, regulations and ordinances pertaining to (a) Worker Safety and (b) Environmental Protection

including, but not limited to, the following which are presented as illustrative examples:

(a) Worker Safety

- 29 CFR 1910, "Occupational Safety and Health Standards", et seq.
- 29 CFR 1926, "Safety and Health Regulations for Construction", et seq.
- 29 CFR 1926.62, "Lead", et seq.
- 40 CFR 117, "Determination of Reportable Quantities for Hazardous substances"
- NIOSH Method 7082 "Lead"
- OSHA Instruction CPL 2-02.58, "1926.62, Lead Exposure in Construction; Interim Final Rule – Inspection and Compliance Procedures"

The contractor shall submit to the Project Engineer a written site specific compliance plan for review at least two (2) weeks prior to the pre-construction meeting. The compliance plan shall describe how the following standards will be met:

- Exposure monitoring [29 CFR 1926.62 (d)]
- Methods of compliance [29 CFR 1926.62 (e)]
- Respiratory Protection [29 CFR 1926.62 (f) and 1910.134 (b), (d), (e), (f)]
- Protective work clothing and equipment [29 CFR 1926.62 (g)]
- Housekeeping [29 CFR 1926.62 (h)]
- Hygiene Facilities and Practices [29 CFR 1926.62 (I)]
- Medical Surveillance [29 CFR 1926.62 (j)]
- Medical Removal Protection [29 CFR 1926.62 (k)]
- Employee information and training [29 CFR 1926.62 (l) and 1926.59 and 1926.21]
- Signs [29 CFR 1926.62 (m)]
- Record keeping [29 CFR 1926.62 (n)]
- Applicable sections of 1926.62 Appendices A-D

(b) Environmental Protection

- 40 CFR 50, "National Primary and Secondary Ambient Air Quality Standards"
- 40 CFR 60, "Standards for Performance for New Stationary Sources," Appendix A, "Test Methods"
- 40 CFR 261, "Identification and Listing of Hazardous Waste"
- 40 CFR 262, "Standards Applicable to Generators of Hazardous Waste"
- 40 CFR 263, "Standards Applicable to Transportation of Hazardous Waste"
- 40 CFR 264, "Standards for Owners and Operators of Hazardous Waste Treatment, Storage, and Disposal Facilities"
- 40 CFR 268, "Land Disposal Restrictions"
- EPA SW-846, "Test Methods for Evaluating Solid Waste-Physical/Chemical Methods", U.S. Environmental Protection Agency
- La. R.S. 30:2001, et seq., "Louisiana Environmental Quality Act" and enabling regulations found in Louisiana's "Environmental Regulatory Code: (most recent edition), particularly:
  - LAC 33:IX.101 et seq., "Water Quality Regulations"
  - LAC 33:V.101 et seq., "Hazardous Waste and Hazardous Materials"
  - LAC 33:III.101 et seq., "Air Quality Regulations"
  - La. R.S. 49:214.21 et seq., "State and Local Coastal Resources Management Act of 1978: and enabling regulations found in the "Louisiana Administrative Code"
  - LAC 43:I.701, et seq., "Coastal Management"

The contractor shall be familiar with and have available at the jobsite, the following referenced industry guidelines:

- SSPC Guide 6 (CON), "Guide for Containing Debris Generated During Paint Removal Operations", as published by the Steel Structures Painting Council: The Society of Protective Coatings (SSPC)
- SSPC Guide 7 (DIS), "Guide for Disposal of Lead-Contaminated Surface Preparation Debris", as published by the Steel Structures Painting Council: The Society of Protective Coatings (SSPC)

The contractor shall submit the name, address and credentials of an EPA recognized AIHA or A2LA accredited lead testing laboratory he intends to use for the testing of wastes generated by the cleaning operation; and the name, address and credentials of a duly licensed waste transporter and waste recycling facility(s) he intends to use to the Project Engineer for review prior to commencement of work.

Chain of Custody forms shall be required for all test specimens or samples taken from the project and transported to testing laboratories. Copies of Chain of Custody forms or Hazardous Waste Manifests shall be submitted to the Project Engineer for review as generated. Final documentation and applicable results shall be submitted to the Project Engineer as completed.

The contractor shall make their on-site changing, washdown, laundering, and discarded clothing disposal facilities and all safety training and personal protection equipment available to the Project Engineer, his representatives, and the Department at no additional cost. The contractor shall provide immediate access to all work areas to the Project Engineer, his representatives, and the Department during the project.

The contractor shall provide exposure assessments, exposure monitoring, equipment, hygiene facilities, medical surveillance training, and all other provisions as required by the Occupational Safety and Health Administration (OSHA) Interim Final Rule on Lead Exposure in Construction to his own employees, to Department employees, and to the Project Engineer and his employees who are acting as inspectors or project managers on projects where removal of lead based paint is occurring. For the purpose of this Special Provision, all references in the Interim Final Rule to "the Employer," with regard to providing exposure assessments, exposure monitoring, equipment, hygiene facilities, medical surveillance training, and all other provisions shall mean "the contractor" and all references to employee(s) shall mean the contractor's employees, the Department's employees and the Project Engineer and his employees. The Department and the Project Engineer shall be responsible for requiring their employee(s) to wear equipment and use facilities provided by the contractor in accordance with the Interim Final Rule.

The contractor shall provide the employee(s) protective clothing and equipment, change areas, showers, eating facilities, and hand washing facilities as required by the Interim Final Rule. Until the contractor performs an employee exposure assessment and determines actual employee exposure, the contractor shall provide to the employee(s) interim respiratory protection, which shall include the respirator, respirator training and fit testing, and a respirator program. The interim respirator protection provided to the employee(s) shall be based on anticipated exposure levels greater than the Permissible Exposure Limit (PEL) (50$\mu g/m^3$), but less than 10 times the PEL (500$\mu g/m^3$). At a minimum, the contractor shall provide the employee(s) with a half mask air purifying respirator with high efficiency particulate (HEPA) filters, which provides a respiratory protection factor of 10. If, through employee exposure assessment, the contractor determines that the employee exposure level is greater than 500$\mu g/m^3$, the appropriate respirator shall be provided.

At a minimum, the contractor shall conduct an employee exposure assessment on one (1) employee designated by the Project Engineer. The initial exposure assessment and any additional exposure assessments shall be conducted, and the results reported, in accordance with the Interim Final Rule.

The results of the employee exposure assessment(s) shall be fully documented. The results of the employee exposure assessment(s) shall be determined and reported in time frames consistent with the Interim Final Rule. Employee exposure assessment results shall be forwarded directly to the Project Engineer.

The contractor shall provide lead training to all employees working on the structural metalwork on the project. The contractor shall provide the following information at the preconstruction meeting.

1. Name and qualifications of the trainer.
2. Location and time of the training.
3. An outline of the training to be provided.

Each trained employee shall be provided with a certificate of training by the contractor.

The training shall be conducted within the parishes of Orleans or Jefferson. The training shall occur between the hours of 7:00 a.m. and 5:00 p.m. on Tuesday, Wednesday, or Thursday.

It shall be the contractor's responsibility to obtain all permits required and to furnish the Project Engineer with copies of all permits.

Paint System:

(a) General: The contractor shall apply the Corrosion Inhibiting Alkyd Paint System. The paint shall be applied in accordance with the manufacturers written recommendations and at the recommended dry film thickness. Coating materials shall not be used until the Project Engineer has inspected the materials and each batch of paint has been tested by the DOTD Materials and Testing Section.

(b) Information To Be Provided: For each coating system, the contractor shall provide the manufacturer's application instructions and include the data listed below:

1. Name of Paint Manufacturer
2. Surface preparation recommendations
3. Prime coating pot life at the anticipated application temperatures
4. Specific mixing instructions
5. Percent volume solids (thinned and non-thinned)
6. Minimum and maximum dry film thickness per coat and total system
7. Minimum and maximum wet film thickness per coat
8. Minimum and maximum curing time between coats, including atmospheric conditions for each
9. Thinner recommended and maximum thinning ratios to be used with each paint.
10. Clean-up thinner, soaps, degreasers, etc.
11. Ventilation requirements
12. Allowable atmospheric conditions during which the paint shall be applied including ambient temperature, relative humidity, surface temperature and dew point temperature

13. Allowable application methods
14. Shelf life
15. Product Technical Data Sheets
16. Material Safety Data Sheets (MSDS)

(c) Product Delivery and Handling: Materials shall be delivered to the job site in their original, undamaged, unopened containers. Each container shall bear the name and address of manufacturer, manufacturer's brand name, trade name or trademark, color batch number, date of manufacture, shelf life and special directions. If the material is dated in code, the key to interpret the code shall be provided to the Project Engineer. All rejected materials shall be removed from the job site immediately.

Paints shall be stored in enclosed, ventilated structures at 40°F (4°C) to 100°F (38°C) and shall be protected from weather. Storage facilities shall be power ventilated to ensure that inside temperatures do not exceed the maximum storage temperature. Flammable materials shall be stored in accordance with state and local codes. Damaged materials and materials exceeding the shelf life shall be removed from the site.

All containers of paint shall remain unopened until required for use. Those containers which have been previously opened shall be used first. The label information shall be legible and shall be checked at the time of use. Paint which has livered, gelled, or otherwise deteriorated during storage shall not be used. The oldest paint of each kind shall be used first. In every case, paint is to be used before its shelf life has expired. In order to use paints which are more than one year old, the manufacturer must certify in writing that the paint is still suitable for use.

(d) Other Materials: All other materials not specifically described but required for a complete and proper installation of painting shall be selected by the contractor subject to the approval of the Project Engineer.

(e) Spare Supplies: From every batch of material, the contractor shall provide one quart container of each color and type of coating. These spare paint supplies shall be submitted to the Project Engineer.

Surface Preparation: All existing bridge metal surfaces that are to be connection areas for bridge widening members, as indicated in the plans, shall be blast cleaned in accordance with the Near White Blast Cleaning Method (SSPC SP10/NACE No.2).

The visual standard form SSPC-VIS 1, SSPC-SP10 that corresponds to the initial rust condition will be used to judge acceptable steel cleanliness.

Recyclable steel abrasives shall be used on the project and the abrasives shall meet the requirements of SSPC-AB3. All recycled metallic abrasive shall meet the cleanliness requirements of SSPC-AB2. Previously used and/or recycled abrasives from other projects shall not be used.

Prior to all surface preparation and painting operations, the contractor shall protect all surfaces not scheduled to be painted. Deposits of dirt, debris, and oil or grease are known to exist and shall be removed prior to blast cleaning with clean cloths using clean petroleum solvents that do not deposit a thin film.

Surface profiles shall be 1.5 to 3.0 mils (380 to 760 μm). Prior to the application of the prime coat, the contractor shall verify the surface profile with X-Coarse Press-O-Film tape in accordance with Method C of ASTM D 4417 "Standard Test Methods for Field Measurement of Surface Profile of Blast Cleaned Steel."

To facilitate inspection, the contractor shall, on the first day of abrasive blasting operation, blast two metal panels to an SSPC-SP10/NACE No.2 near while blast cleaned condition and with a surface profile between 1.5 to 3.0 mils. ASTM A-36 Steel Plates shall measure a minimum of 8-1/2 inches (216 mm) by 11 inches (280 mm) by 1/4 inch (6 mm) thick. Panels meeting the requirements of the specifications shall be dated and initialed by the contractor and the Project Engineer. One of the panels

shall be coated with a clear, non-yellowing finish; the other used to calibrate the dry film thickness gages used on the project. The panels shall be wrapped in corrosion-inhibitive paper and kept in a clean, dry area. They shall be used as the comparison standard throughout the project.

All fins, tears, slivers, and burred or sharp edges that are present on any steel member, or that appear during the blasting operation, shall be removed by grinding and the area re-blasted. Pack rust at connections and at other areas on the structure shall be removed to the satisfaction of the Project Engineer by using needle guns, power tools, hammers, chisels, or other methods which will not cause damage to the steel.

Scaling hammers may be used to remove heavy scale but heavier type chipping hammers which would excessively scar the metal shall not be used. Cleaning and painting shall be scheduled so that dust and spray from the cleaning process will not fall on wet, newly painted surfaces. Blasting and painting operations inside the containment shall proceed in a linear fashion from one end of the containment to the other. Blasting and painting operations shall proceed in the same direction as the air flow inside the containment.

All abrasive, dust and paint residue shall be removed from steel surfaces with a commercial grade HEPA filtered vacuum cleaner equipped with a brush-type cleaning tool, or by double blowing. If the double blowing method is used, the exposed top surfaces of all structural steel, including flanges, longitudinal stiffeners, splice plates, hangers, etc., shall be vacuumed after the double blowing operations are completed. The steel shall be kept dust free and primed within 8 hours after blast cleaning. Blast cleaned surfaces shall be painted the same day or re-blasted. Occurrence of rust after cleaning shall be cause for re-cleaning by blasting or other cleaning methods as directed. Within the contained area, all blow-down operations must be completed prior to painting. Once painting has commenced, only vacuuming will be allowed. If any dust, as evidenced by simply wiping the surface with a finger, accumulates on a primed surface, all surfaces shall be vacuumed prior to subsequent coating.

Any scaffolding, staging or support steel above the area to be coated shall be vacuumed and cleaned to prevent abrasive or dust from dropping onto the freshly cleaned surface or later contaminating the freshly painted surface. Freshly painted surfaces that are contaminated shall be re-blasted and re-painted. All surfaces to be coated shall be completely free of grit, dirt or any contaminant prior to coating regardless of original contaminant.

The contractor's Quality Control Inspector shall confirm compliance with all applicable specifications prior to Quality Assurance Testing. The Project Engineer or his representative may defer testing and/or acceptance of the work area until such time that all visible flaws and defects are corrected, and compliance is again verified by contractor's QC Inspector. Once the contractor's Quality Control Inspector has verified compliance with all applicable specifications and conducted all required testing, the Project Engineer or his representative will inspect surfaces to be painted prior to coating and will inspect the painting operation. This inspection does not relieve the contractor of responsibility for proper preparation of the surface or application of the coating. Any scaffolding and or staging shall remain in place in any particular work area until the Project Engineer or designated representative has accepted the completed work.

Electrical Equipment, Material and Incidentals: Extreme care shall be exercised when working in the vicinity of electrical cables and fixtures. Prior to blasting and/or painting operations in close proximity to the electrical cables, the contractor may request that the cables be de-energized for the

blasting or painting operation. The disconnection time shall be between the hours of 6:00 a.m. and 2:00 p.m. Disconnections shall be coordinated with NOPBRR, through the Project Engineer, who will perform the disconnection and will require a minimum three (3) working days advance notice.

The contractor shall submit a schedule for approval on times of power disconnect. After de-energized but prior to blasting or painting, the cables shall be suitably covered and protected from damage. The coverage and protection measures shall be submitted to and approved by the Project Engineer. All costs associated with de-energizing and protection of electrical cables shall be included in this item.

A lock-out, tag-out protocol shall be employed at the various electrical disconnect switches.

Plastic coated conduit and fittings, open wiring, cables and cords that exist on and around the bridge shall not be sandblasted nor painted and shall be cleaned of over spray. Any wiring and cables or conduit damaged by painting operations shall be replaced in its entirety at the contractor's expense.

Application:

(a) General: Coatings application shall be in accordance with the manufacturer's recommendations, SSPC-PA 1 Paint Application Specification No. 1 and these specifications, whichever is more stringent. Coatings shall be applied only to surfaces prepared in accordance with these specifications. Paint systems may be applied by conventional or airless spray equipment in accordance with the manufacturer's recommendations and these specifications.

The finished surface shall be free from dry spray, over spray, runs, sags, drips, excessive paint build-up, ridges, waves, laps, streaks, and variations in color, texture and finish (glossy or dull). The coverage shall be complete and shall be so applied as to produce an even film of uniform thickness, completely coating corners and crevices, and bonded to the underlying surface. The edges of any existing un-removed coating at tie-in areas shall be feathered, leaving surfaces, prior to new paint application, tapered and free of loose or damaged coating. Care shall be exercised to avoid over spraying or spattering paint on surfaces not to be coated. Damage to surfaces not to be coated shall be repaired by the contractor at the contractor's expense. When fresh paint is damaged by the elements, the containment, or equipment, it shall be replaced by the contractor at no direct pay.

(b) Weather Limitations: The contractor's coating inspector shall perform necessary tests immediately before blasting and painting and at least every two hours during the painting operation to determine the dew point, temperature, and relative humidity. Readings shall be taken at the same area where the members are being coated. The contractor's Quality Control Inspector shall record all readings on applicable forms and submit daily to the Project Engineer or his representative.

(1) Temperature: Paint shall be applied in accordance with the manufacturer's recommendations and these specifications, whichever is the more stringent. Paint shall not be applied to steel which has a temperature that will cause blistering or porosity, or otherwise will be detrimental to the life of the paint.

Paint, when applied, shall be approximately the same temperature as that of the surface on which it is applied. Paint shall not be applied unless the surface temperature of the metal is at least 45°F (7°C) and rising, and shall not exceed a steel surface temperature of 100°F (38°C). Steel surface temperature requirements shall be maintained during and after painting in accordance with heading (3) Humidity.

(2) Moisture: Paint shall not be applied during rain, snow, fog, or misty conditions, or when the steel surface temperature is less than 5°F or 3°C above the dew point. Paint shall not be applied to wet or damp surfaces.

(3) Humidity: Where manufacturers have not made a different written recommendation, paints shall not be applied when the relative humidity exceeds 85 percent. Fans, heaters, ventilators or other equipment shall be used inside enclosed areas where conditions are not within the stated limits.

(c) Ventilation: The contractor shall provide the proper mechanical ventilation, if required for proper curing.

(d) Paint Properties, Mixing and Thinning: Paints shall be thoroughly stirred, strained and kept at a uniform consistency during application. Coatings shall be mixed in accordance with the manufacturer's instructions, including listed weather tolerances. Where necessary to accommodate the conditions of the surface, temperature, weather and method of application, the paint may be thinned immediately prior to use by the addition of not more than the amount of thinner recommended by the manufacturer. Unless otherwise specified, paint shall not be reduced more than necessary to obtain the proper application characteristics. Thinner shall be only as recommended by the coating manufacturer.

(e) Methods of Paint Application: Paint shall not be applied to a surface until it has been prepared as specified. Paint shall be applied before any surface rusting occurs, or any dust or oil has accumulated. In the event that eight (8) hours have passed since the surface to be coated has been approved for coating application, the area shall be re-inspected to assure compliance with the surface preparation specified. After a coat is dry, missed or damaged spots shall be repaired before succeeding coats are applied.

The manufacturer's recommended minimum and maximum recoat periods shall be strictly observed. Where conditions require recoat after the recommended maximum recoat period, the contractor shall employ the manufacturer's written recommended remedial procedures. Any coating removed during this process shall be replaced prior to applying additional coats. The contractor shall protect adjacent surfaces already properly coated.

The contractor's equipment shall be designed for application of the materials specified. Compressors shall have suitable traps and filters to remove water and oil from the air. Prior to using compressed air, the contractor's Coating Inspector shall verify daily the cleanliness using a blotter test in accordance with ASTM D 4285 "Standard Test Method for Indicating Oil or Water in Compressed Air." The contractor's Coating Inspector shall record all test results on applicable forms and submit daily to the Project Engineer or his representative. Spray equipment shall be equipped with mechanical agitators, working pressure gages, pressure regulators, and spray nozzles of the proper sizes.

Members shall be covered as necessary to prevent accumulation of dry spray on blasted or painted surfaces. All dry spray shall be removed by sanding. If necessary, areas of deficient primer thickness shall be thoroughly cleaned to remove all dirt, grease, or other contaminates and recoated to the specified thickness. If the paint manufacturer, Project Engineer, or his designated representative requires that the surface be blasted instead of sanded, the contractor shall comply. Where protection is provided for coated surfaces, such protection shall be preserved in place until the paint film has properly dried. Items which have been coated shall not be handled, worked on, or otherwise disturbed until the paint coat is completely dry and hard. All damage to coated surfaces shall be repaired by the contractor upon removal of protection.

(f) Film Thickness: After each coat has been allowed to dry, the dry film thickness shall be measured by the contractor's Coating Inspector and verified by the Project Engineer with a calibrated dry film thickness gage, both in accordance with SSPC-PA-2.

(g) Damaged Areas: Should any mudcracking or other defects develop in the applied coating, the affected area shall be removed by blast cleaning and repainted. All scaffolding to be used shall be equipped with rubber rollers or other protection to prevent damage of painted surfaces. All damaged areas shall be repaired prior to removing the containment except for areas in contact with containment supports.

(h) Protection of the Public and Work: The contractor shall protect all parts of the new and existing work against physical damage and disfigurement by splatters, splashes and smirches of paint materials. All existing or newly painted surfaces that are marred or damaged due to any and all construction activities shall be repaired with materials and to a condition equal to that of the coating system specified. The contractor shall take all precautions necessary to protect the surface from contamination prior to or during the application process. The contractor shall be responsible for all damage caused by the painting project to persons or property.

Quality Control: The contractor shall provide safe access to the job site for all workers and for the Project Engineer or his representative at all times while the work is in progress and throughout the life of this contract.

The contractor shall comply with the safety and application procedures recommended for each paint system by the coating manufacturer.

Quality Control shall be the responsibility of the contractor. It will be the responsibility of the contractor to provide sufficient coating inspection personnel and documentation to assure full compliance with these specifications to the satisfaction of the Project Engineer. At a minimum there shall be one full time employee (either an employee of the contractor or the contractor's coating inspector) at the site when the blasting operations start until completion of the painting of this project.

The contractor shall provide to the Project Engineer a certificate showing National Association of Corrosion Engineers (NACE) Certification (Successfully completed Level 1, Level 2, Level 3, and Peer Review) of the Quality Control Inspector.

The contractor's Coating Inspector shall confirm that all areas meet minimum thickness requirements prior to the Quality Assurance Testing performed by the Project Engineer.
The contractor's Quality Control Inspector shall perform the following tests and record the following information to be submitted to the Project Engineer in accordance with the referenced procedures and frequency:

- Relative Humidity and Dew Point Readings inside containment.....SEC 101.07(B). Before and every 2 hours during painting and blasting activities.
- Temperature Readings of air, material and steel surfaces.....SEC 101.07(B). Before and every 2 hours during painting and blasting activities.
- Ambient Readings in the mixing area during mixing activities.
- Profile Height Measurements.....ASTM D4417. Daily before coating.
- Visual Inspection of blasted surfaces. Daily before coating.
- Blotter Test Results.....ASTM D4285. Daily prior to blasting.
- Wet Film and Dry Film Thickness Measurements.....SSPC PA2. Daily.
- Wind Speed and Direction.....Daily every 2 hours.

Readings shall be taken at the same area where the members are being coated.

The painting contractor shall be totally responsible for quality control regardless of the fact that the Department, the Project Engineer or their representatives are present. Copies of all Quality Control testing documents shall be furnished to the Project Engineer on a daily basis.

All inspection for Quality Assurance shall be done by the Project Engineer or his representative.

Shop Drawings:

(a) General: At least 60 days prior to the commencement of work, the contractor shall submit to the Project Engineer a Containment Design Plan for examination within the following guidelines:

(1) All drawings shall be original tracings conforming to Section 801.03 of the 2000 Standard Specifications.

(2) The containment system shall be shown in plan and elevation views. Details shall include the containment enclosure, all materials, seals, supports, anchorage, scaffolding, air ventilation and filtration systems, anticipated loads on the structure, vertical and horizontal clearances, and the method of attachment to the structure.

(3) Indicate the maximum permissible debris and wind loads permitted on the containment system and describe its installation and removal parameters and procedures.

(4) The containment system with all anticipated loading shall be reviewed and stamped by a professional civil engineer registered in the State of Louisiana. The analysis shall ensure that the containment system and the contractor's equipment shall not surpass allowable construction loads (as defined in the Project Plans) for the bridge members nor compromise the structural integrity of the bridge. The containment system shall not foul highway or railroad clearances. Calculations shall be submitted to the Project Engineer for review.

(5) Permanent attachments or fasteners to the bridge will not be allowed. Welded connections and any other weldments to bridge members are prohibited. No additional holes shall be drilled.

(6) All components of the containment system shall be clearly identified on the drawings.

(7) No loads shall be attached to the bridge railing without prior written consent of the Project Engineer.

(8) The contractor shall submit drawings for examination in accordance with Subsection 801.03(a) of the 2000 Standard Specifications and Special Provisions.

(b) Examination: Examination of these working or shop drawings by the Project Engineer does not relieve the contractor of his responsibility for obtaining the degree of containment and collection stated herein. Said examination is for general review only and confirmation that the loads placed on any member are within allowable stresses, to evaluate the general loads on the structure, and to establish the containment removal parameters. It specifically is not an approval for the structural integrity of the scaffolding system. The structural integrity of the scaffolding is solely the responsibility of the contractor and the manufacturer of the scaffolding materials. The contractor shall be fully responsible for safety measures and the scaffolding work. The contractor shall properly maintain his containment system during work and shall not deviate from the working or shop drawings without prior submittal, and examination of the changes by the Project Engineer.

Containment:

(a) General: The frequency and proximity of workers, the public, and environmentally sensitive receptors to the project site requires a high level of emission control.

The intent of this section is to specify a method to totally contain all spent materials, dust or mists and any other debris generated during the cleaning or subsequent vacuuming of the structure in preparation for field coating. The method specified is for total containment of the cleaning work area within a negative pressure enclosure.

The design of the enclosure and the air flow and dust filtering equipment required is the responsibility of the contractor.

Attachments made to any bridge member for securing the containment or equipment shall not damage the member and must be reviewed by the Project Engineer. No additional holes shall be drilled.

In the event that the National Weather Services issues a tropical storm or hurricane warning for the project area, those components of the containment system that would cause an overstress condition on any bridge member or the span as a whole, or that may become detached, shall be removed immediately from the structure. The items to be removed and the parameters for removal shall be identified on the containment design calculations and drawings. The contractor shall also submit for approval a detailed plan for removal of the necessary items. The plan shall demonstrate the contractor's ability to implement the plan including a description of the time frame, manpower requirements and equipment required to implement the plan. The removal and reinstallation of the containment system due to the high winds or approaching storms shall be at no direct pay and should be included in the bid price for this item. In the event it is necessary to suspend operations and remove containment and scaffolding, the contractor shall retain a local contact to handle unsafe conditions that may be caused by the storm and stored on-site equipment. The local contact information shall be provided to the Project Engineer prior to the evacuation.

(b) Class and Type of Containment: The following containment methodology is from the SSPC - Guide 6 (95). The contractor shall design and utilize a SSPC Class 1 A containment system. When vacuum shrouded blast cleaning is employed, ground covers or free-hanging tarpaulins may provide controls equivalent to Class 1A containments.

The containment enclosures shall have air moving equipment attached capable of creating a negative pressure condition within. This pressure shall be sufficient to prevent any spent material or dust from leaving the enclosure during the cleaning. It shall also be capable of creating sufficient air flow through the enclosure to provide adequate visibility and a safe working environment for the blasting operators. The contractor shall design the containment and ventilation system to provide a minimum of 60 feet per minute downdraft and 100 feet per minute cross-draft airflow within the containment. These are minimum design requirements and increased ventilation airflow or other engineering measures may be needed to provide a safe working environment. Auxiliary lighting shall be used within the enclosure where necessary to illuminate the active work surface to a minimum of 550 lux. This is required for clear viewing of all cleaning, painting and inspection operations as directed by the Project Engineer. All air exhausted from the containment enclosure shall be filtered by means of a filtering system or dust collectors. All filters or dust collectors shall be cleaned before delivery to the project site and shall be cleaned before removing from the project site. The contractor is responsible for the design and effectiveness of this filtering equipment.

No dust discharge shall be allowed from the exhausted air from the filters, dust collectors, vacuum truck, or other support equipment used for pickup of spent materials. The contractor shall conduct all blasting operations and grit recycling operations under containment and negative pressure conditions. Recycling operations are also subject to the same emission requirements that are required for the blast cleaning containment system. The combination of removal technique and containment system shall have the desired effect of preventing the release of airborne lead containing dust and debris to below the levels required by all local, state and federal regulations and to control the workers' environment within containment as required by OSHA regulations 29 CFR 1926.62. The containment shall control environmental emissions according to the following assessment criteria. Failure to meet this criteria will result in the suspension of cleaning operations and require significant modification or redesign of the containment system, work practice or removal technique prior to resuming cleaning operations.

(c) Methods for Assessing Quantity of Emissions: The contractor is advised that the Department may engage an independent third party to conduct environmental monitoring for TSP Lead Levels and Visual Assessment of Emissions. This monitoring may be continuous, however, the Project Engineer will have the option of suspending or conducting only random or periodic monitoring if compliance with the acceptance criteria set by this specification is demonstrated.

The contractor is advised that he should not assume he is in compliance with any or all environmental laws or regulations based on satisfactory results of the monitoring conducted by the Department or its representatives. This monitoring is being conducted only to aid in determining non-compliance with the contract specification containment requirements and to trigger the need for containment or work practice modification.

The contractor shall be responsible for conducting any and all monitoring and assessments he deems necessary to assure compliance with all applicable environmental or worker safety laws and regulations at his own expense.

(1) Visible Emission Assessment: The contractor shall prohibit all cumulative visible emissions greater in duration than 5 percent of the work day. A work day shall be defined for purposes of visual emission assessment as an eight-hour day. This amounts to a cumulative emission duration limit of 24 minutes per workday. Any emissions occurring in any one hour of any work day that cumulatively exceeds 3 minutes shall be cause for immediate suspension of work and modification or adjustment of the containment system to eliminate the source of emissions prior to resuming cleaning operations.

The visual assessment of emissions will be used to indicate the need for immediate changes in containment or work practice. This visual assessment will be used as a supplement to EPA Ambient Air Monitoring for TSP – Lead. In the event of conflict between the visual assessment and the instrument monitoring, the data generated from the instrument monitoring will prevail. The visual assessment procedure shall be based on 40 CFR 50, Appendix A, Method 22. Visual assessment will be conducted by an independent third party environmental testing firm under separate contract with the Department and New Orleans Public Belt Railroad.

(2) Instrument Monitoring for TSP Lead: The contractor shall conduct his paint removal and cleaning operations such that emissions of lead shall not be in excess of 1.5 $\mu g/m^3$ over a 24-hour period. Monitoring for this level shall be accomplished using high volume TSP (total suspended particulate) air samplers in accordance with 40 CFR 50.

Emissions in excess of 1.5 $\mu g/m^3$ in any 24-hour period shall be cause for shut down of the project until corrections are made to the containment or work procedures are modified to comply with this level of emissions.

Seven (7) days of baseline monitoring prior to project start-up will be undertaken to determine pre-existing conditions.

Visible Accumulation and Project Housekeeping: Any discharge, spilling, leaking, pumping, pouring, emitting, or dumping of any abrasive blast media (spent or unspent), paint chips, dirt, debris, lead contaminated materials, fuel, oil, paints, or solvents that are generated as a result of any of the contractor activities that result in any visible accumulation within the project limits, temporary waste storage site, or contractor's equipment and materials storage yard shall be cleaned up immediately. Failure to immediately clean up any visible accumulations in a timely manner with adequate equipment and personnel will result in immediate suspension of all work on the project by the Project Engineer. The source of the emission, spill, etc. shall be determined and corrective measures shall be taken to prevent any recurrence. All visible accumulations shall be cleaned up by vacuuming or other appropriate methods, and the emitted or spilled materials shall be contained and stored as required by regulations referenced in these Specifications.

Waste Handling, Disposal and Recycling: Disposal specifications described below are referenced to the SSPC-Guide 7 (DIS). Debris generated by the contractor's cleaning operation, including abrasive blast residue, spent blast mediums, rust, mill scale, paint particles and dust shall be removed from the contaminant area at least once per day.

These wastes shall be collected in leak-proof containers which shall be clearly marked of the hazards of its contents, tare weight of the container, and origin and date of the material collection with weather resistant labels. Transfer of this material from the work area to the containers and the storage site for the containers shall be such that no pollution of the environment will occur and workers are fully protected. The containers shall be transported to a temporary storage site in accordance with 40 CFR Part 263: "LAC 33:V." The contractor shall be responsible for obtaining the temporary storage site at no additional charge to the Department. This site shall be secure, providing protection from migration of the waste into the environment and from vandalism and public access. Warning signs shall be prominently displayed around the perimeter of the site. The wastes may remain at the temporary storage site no longer than ninety (90) calendar days.

Recyclable steel abrasives shall be used as the surface preparation method. All blasting waste and dust collector waste shall be handled as a hazardous waste. These wastes shall be taken to a beneficial reuse facility such as a lead smelter. The reclaiming facility shall have a Resource Conservation and Recovery Act (RCRA) Part B permit. The facility shall provide the Department with certification that the lead was reclaimed and that the waste has been recycled and no longer exists. All other waste streams shall be stored in separate containers. These waste streams shall be sampled and tested to determine their classification and shall be properly disposed of based on that classification. Steel additives to the blasting waste and the dust collector waste will not be allowed.

All waste shall be presumed to be hazardous until it is clearly demonstrated by appropriate sampling and testing to be non-hazardous. All hazardous or non–hazardous wastes shall be handled and stored as a hazardous waste.

Sampling of the wastes generated shall be in accordance with 40 CFR Part 261: "LAC 33:V." The sampling and testing laboratory designated by the contractor and approved by the Project Engineer shall prepare a sampling plan in accordance with the Environmental Protection Agency's Manual SW 846.

The Project Engineer or his representative shall be present during the sampling of waste. The Project Engineer shall document that the samples are representative of wastes contained at the temporary storage site. The samples shall be analyzed in accordance with the best procedures and quality assurance requirements of 40 CFR Part 268: "LAC 33:V".

Wastes found to be hazardous are subject to the provisions of the RCRA. Transportation of hazardous wastes for treatment and disposal shall be completely manifested in accordance with 40 CFR Part 262: "LAC 33:V". A manifest will be required for transport of both hazardous and non-hazardous waste. The manifest shall be returned to the Project Engineer.

Payment: Any damage to the structure or surrounding area resulting from the contractor performing any of the above prescribed work shall be repaired, as directed by the Project Engineer, by the contractor at no additional cost to the Department.

Payment will be made at the contract lump sum price for cleaning, painting of existing bridge metalwork faying surfaces at each stringer connection to floorbeams and any other miscellaneous metalwork connections of the Huey P Long Bridge and recycling or disposal of all generated waste which will constitute full compensation for all equipment, labor, tools, sampling, testing, materials, temporary site storage, transportation, treatment, and disposal of waste materials, incidentals and the performance of all work necessary to complete this item.

Payment will be made under:

Item S-101, Cleaning, Painting and Waste Disposal/Recycling of Existing Bridge Metalwork Faying Surfaces, per lump sum.

ITEM S-123, STRUCTURAL METALWORK (ERECT): This item consists of furnishing all labor, equipment, materials and incidentals necessary to erect structural metalwork provided by others as described and detailed in the project plans.

Section 807 of the DOTD Standard Specifications, as well as all other referenced sections of the Standard Specifications and supplemental specifications for structural metalwork shall apply to this pay item. Work in this pay item shall consist of erecting structural metalwork provided by others as well as any required touch up painting as a result of erecting the components and cleaning and painting field bolted connections. Prior to making connection, pressure wash all faying surfaces coated with inorganic zinc. After connection is made, blast stringer, string bolster and bolts to clean and remove all exposed inorganic zinc then apply Corrosion Inhibiting Alkyd Paint System.

Payment will be made at the contract lump sum price for erecting structural metalwork, which shall include all material, tools, equipment, labor, incidentals and the performance of all work necessary to complete the item.

Payment will be made under:

Item S-123, Structural Metalwork (Erect), per lump sum.

ITEM S-125, SOIL BORINGS: This item consists of installing and furnishing all labor, equipment, materials and incidentals necessary to obtain soil borings at the bents noted in the project plans, perform laboratory soil analysis, and the generation of reports detailing the findings of the work.

General: The results of the borings and laboratory testing will be used to establish pile order lengths and the estimated pile tip elevation for each foundation. The borings shall therefore be performed in the early phases of the contract sufficiently in advance of the schedule for ordering pile lengths.

Soil borings shall be taken at the locations shown in the plans. Where field conditions do not permit the borings to be taken at these locations, an alternate location shall be proposed for approval. The required number, locations, and maximum depth of the borings are noted in the plans.

All borings shall be advanced using rotary drilling technique. Casing shall be required at the ground surface, and advanced by drilling as necessary to maintain a stable borehole.

Soil samples shall not be obtained by driving and removing casing.

No boring shall be abandoned before reaching the specified depth without the prior approval of the Project Engineer. The contractor shall backfill abandoned borings as specified herein.

The sequence of exploration will be determined by contractor.

As no roads or other access has been established to the designated boring locations, the contractor shall evaluate the site conditions to determine the support capacity of the soil for drilling equipment, and the need to provide temporary mats, access roads, or other measures as required to access the boring locations.

The contractor shall obtain the actual coordinates and surface elevation at each boring location by survey methods using the project coordinate system and datum.

Undisturbed samples of cohesive or semi-cohesive subsoils shall be obtained at 5-ft intervals using a 3-in. diameter thinwall Shelby tube sampler. Representative portions of extruded samples shall be preserved for further testing. Samples of cohesionless materials shall be obtained at maximum 5-ft intervals during the performance of in situ Standard Penetration Tests. These samples will also be preserved for further testing.

Utilities: It shall be the responsibility of the contractor to contact the appropriate utility companies for field location of their utilities prior to beginning any drilling activities. The contractor shall employ all reasonable precautions and methods to ensure adequate clearance from existing utilities, other structures and obstructions. Hand augering and/or small hand dug pits (up to 6-foot deep) shall be used in areas where buried utilities are potentially present. In the event such damage to known utilities does occur, the contractor shall be liable therefore, and it shall notify the affected owner and the Project Engineer immediately, make or have made all necessary repairs and bear the expense thereof and all damage caused thereby.

If the contractor finds he cannot safely work at a location shown on the drawings, either because of utilities, other structures or obstructions that may be damaged, he shall so notify the Project Engineer in order that another location may be designated.

Quality Standards: The work shall be performed in accordance with ASTM D 420, "Standard Recommended Practice for Investigating and Sampling Soil and Rock for Engineering Purposes," and all applicable ASTM Standards referenced therein. If there is a conflict between the ASTM Standards and these provisions, then these provisions shall govern.

The contractor, technician and drilling foreperson shall have documented experience with exploration techniques including conventional soil drilling and sampling. The contractor shall use experienced and qualified geotechnical engineers, geologists and/or specialized technicians to provide full-time inspection of all boring operations, to determine the type of samples to obtain at any depth, for classification of recovered soil samples, for identification and documentation of unusual conditions encountered during drilling, and for preparation of the boring logs. The contractor shall provide the Project Engineer with a list of personnel and appropriate equipment that can perform the work described herein prior to commencement of the drilling program. This list shall include the amount of experience in years that each proposed driller and technician has had with each of the techniques given above. Equipment should be listed with respect to manufacturer, age and condition.

Drilling and Sampling:

A mud pit shall not be excavated. If required, a mud tub and recirculation system shall be furnished by the contractor for use during drilling.

The drilling rigs and equipment shall be clean of all contaminating fluids, such as obvious leaks from hydraulic lines, couplings and fittings, in order to avoid contamination of the boring and work area. The drilling machines shall be hydraulic-feed, rotary drill rigs in good working condition, and capable of securing satisfactory samples of the required diameter at the maximum depth. Supplies for drilling shall include all casings, drill rods, bits, samplers, pipe, pumps, water, tools, sample jars, and any other equipment required to perform the required work.

A. Rotary Drilling:

Rotary wash drilling shall be used to advance the borings. To support the borehole, casing and/or drilling mud (bentonite or mud slurry) as approved by the Project Engineer shall be used. When casing is used, it shall be advanced in the soil by a series of operations which consist of driving the casing to the depth to be sampled, cleaning out the hole to the bottom of the casing by approved methods and performing standard penetration test or obtaining undisturbed samples of the materials ahead of the casing and repeating this sequence until the required depth is reached.

The casing shall be an extra heavy pipe. The casing shall also have a minimum nominal inside diameter of 3 3/8 inches and adequate for the required sampling equipment. It shall be sunk vertically through pavement, earth, water, and other materials, including obstructions to the required depth.

Washing ahead of the casing to facilitate driving will not be permitted unless approved by the Project Engineer and, where so approved a record shall be kept of the elevations between which the water was used in driving. The use of water for cleaning out the casing between the samples will generally be allowed. Washing through the split spoon sampler in lieu of a properly designed bit will not be permitted. The washing bit shall be designed to direct the water jet upward. The amount of water shall be the minimum required to clean the casing properly and raise the soil particles to the surface. In no event shall the material below the bottom of the casing where a sample is to be taken be disturbed by the cleaning process. The inside wall of the casing shall be kept clean of drilled materials.

Removal of Drill Casing: The casing shall be removed from the borehole upon completion of the work, and it shall remain the property of the contractor.

When drilling below the groundwater level, drilling water or slurry inside the boring should be maintained higher than the surrounding groundwater elevation to assure a positive static water head. This is required to avoid sand boiling and blowing up at the bottom of the borehole. If required, water or slurry shall be added to maintain the fluid level inside the borehole during drilling and withdrawal of the drilling rods.

The contractor shall maintain the stability of the borehole at all times.

B. Split-Spoon Sampling:

1. Split spoon samples shall be taken using a standard safety hammer at the ground surface and at 5-foot intervals thereafter, at every change in soil formation.
2. The split-spoon samplers shall be brushed until all visible material from prior sampling is removed, then rinsed with water. This procedure shall be performed before the initial sample is taken and shall be repeated before each successive sample is taken.
3. Standard Penetration Test samples shall be obtained by driving a split-spoon sampler, having an outside diameter (O.D.) of 2 inches, an ID of 1-3/8 inches, and a length of 24 inches in the split-barrel section, conforming to ASTM D 1586. Core retainers shall be used when necessary to hold the sample.
4. At all times, the split-spoon sampler shall be equipped at the top with a reliable check valve. Spring retainers shall be used when necessary to avoid loss of sample. If a sample is not obtained on the first attempt, the operation shall be repeated. If a sample is not obtained on the second attempt, the boring shall be advanced and cleaned to the bottom of the disturbed soil zone or as directed by the Project Engineer and the sampling procedure repeated.
5. To facilitate determination of the relative resistance of the various strata, the split-spoon samplers shall be driven by a standard safety hammer specifically manufactured for the Standard Penetration Test, weighing 140-pounds and dropping a distance of 30 inches. The number of blows for each 6 inches of penetration shall be recorded for 24 inches of penetration. Sampling shall continue until 50 blows for 6 inches or less of penetration is achieved. The blows for the smaller amounts of penetration shall be observed and recorded with a note of the actual amount of penetration obtained.
6. The sampler shall be driven into soil which has not been disturbed by chopping, washing, hydrostatic imbalance, or other cause. A positive hydrostatic pressure shall be applied by adding water into the casing to prevent instability due to upward flow of water during or before sampling.

C. Undisturbed Shelby Tube and Piston Samples of Cohesive Soils:

Before taking any undisturbed sample, the borehole shall be cleaned out thoroughly to the required sampling depth. The cleanout procedure shall be applied carefully such that the soil to be sampled is subject to minimum disturbance.

The taking of an undisturbed sample in cohesive soils shall be accomplished by the use of a thin wall tube sampler or piston sampler that provides a soil sample of approximately 3 inches in diameter. The end of the sampling tube shall be drawn in so that the I.D. of the

cutting edge shall be 1/64 inch less than the I.D. of the sampler tube. The piston sampler shall be a stationary piston type sampler, Sprague and Henwood No. A15119 or Acker No. 1510B for 3-1/2 inch borings or hydraulically operated Osterberg type sampler, or equivalent.

In order to obtain a sample as undisturbed as possible, the sampler shall be forced down in one continuous movement without hammering, by means of a block and tackle arrangement or hydraulic jack. The rate of downward movement shall be approximately 4 inches per second. After the sampler has been forced into the soil for the required depth, the sampler shall remain undisturbed for not less than ten minutes. The drill rod shall then be rotated by hand a minimum of two revolutions to shear the end of the sample, the sampler slowly withdrawn from the hole, and the tube containing the sample detached from the sampler. After the tube is detached, the length of the sample recovered shall be measured to the nearest 1/8 inch, noted and compared with the depth pushed. Undisturbed samples to be acceptable for payment shall have a minimum recovery of seventy percent (70 percent) unless otherwise authorized by the Project Engineer.

D. Preserving Samples:

1. Split-Spoon Samples: Each sample shall be preserved. The container for preserving driven samples shall be 16 ounce wide-mouth, round, airtight, clear glass jars with teflon-faced screw-tops. The sample storage jars shall be furnished by the contractor.

   The specimens shall be placed in the jars as soon as taken. If there is a change in soil type in the spoon, a different jar shall be used for each soil and so labeled. The jars shall be tightly capped and shall be suitably boxed in numerical sequence, marked and identified with legible labels. The labels on the body of the jars shall show the date, boring number, number of blows per each six (6) inches of penetration, sample number, depth at which sample was taken, and identification of material. Each jar lid shall be marked to show the boring number, sample number, sample depth, and number of blows per six (6) inches of penetration. Additionally, each box of samples shall be clearly and permanently marked on the top and all four sides with the project name, date, boring number and samples contained therein.

2. Undisturbed Samples: After the undisturbed sample tube is detached from the sampler, the length of the sample recovered shall be measured to the nearest one-eighth (1/8) inch, noted and compared with the depth pushed. Both ends of the specimen shall be sealed with at least a one (1) inch thick layer of microcrystalline wax (non-shrinking) to protect the specimen. The remaining voids shall be filled with moist sand or similar material as approved by the Project Engineer and the tube capped with plastic or metal end caps and sealed with friction tape and microcrystalline wax as specified in ASTM D 1587. The tube shall be marked for identification including project number, boring number, sample number and sample depth. Tubes shall be marked Top and Bottom to show the position of the sample as it was taken. Undisturbed samples shall be carefully boxed, and shipped with each sample container surrounded by soft packing so that these samples may be safely transported. Care must be taken when handling undisturbed samples to avoid shock, or jar, which may affect the character of sample. Undisturbed samples shall be transported in a vertical upright position with the top side up. The undisturbed samples must be protected from freezing. When approved by the Project Engineer, samples may be extruded in the field and suitably wrapped and stored to avoid disturbance to the sample.

The contractor shall supply appropriate shipping boxes and transport the samples to the test laboratory.

Storage of Soil Samples: At the completion of the boring program, recovered soil samples shall be delivered to the contractor testing laboratory.

3. The contractor shall temporarily store recovered samples until they are delivered to the testing laboratory. The temporary storage area shall be heated to minimum temperature of 45°F to prevent freezing of the samples. The samples shall be stored on suitably constructed shelves. The shelves shall meet the following requirements: no more than 4 sample boxes shall be stacked vertically per shelf, and the maximum shelf height shall not be greater than 5.5 feet above the ground, the lowermost shelf level shall be a minimum of six inches above the floor level.
4. The costs of storage and transporting recovered samples are considered incidental to the sampling operations, and no separate payment will be made.

E. Water Supply

The contractor shall be responsible to supply each drill site with sufficient quantities of water to perform the drilling operation. The supply of the water shall include all equipment and work necessary to provide water to the drill site. The providing of water for drilling shall be considered incidental to the work. The cost shall be included in the unit prices bid for the other items. No separate payment will be made for providing the water to perform the drilling operation.

Abandoned Holes and Obstructions: Should the casing or apparatus be removed from a boring, or should the boring be abandoned without the permission of the Project Engineer, or should a boring be started for any reason and not carried to the required depth, or should the contractor fail to keep complete records of materials encountered or furnish the required samples, the contractor shall make an additional boring at a location selected by the Project Engineer, and no payment shall be made for either the abandoned boring or any samples or cores obtained therein.

Should the contractor encounter an obstruction before reaching the required depth, the contractor shall move a few feet to the side, to a location approved by the Project Engineer, and redrill the boring.

Abandonment of borings shall be documented and the information provided to the Project Engineer. Documentation shall include the depth and number of the boring, the date the boring was completed, and other pertinent data.

Backfilling of the Boreholes: The ground surface which has been disturbed, either at or in the vicinity of a borehole, shall be restored to its original condition as soon as is practicable, following completion of boring operations at that borehole.

Boreholes shall be properly backfilled with cement grout to within one foot of the surface. The top one foot shall be restored to its original conditions using the material of the type that was removed for the top one foot. Grout shall be placed by tremie method using a tremie that extends to the bottom of the hole.

Backfilling boreholes shall be considered incidental to the testing work, and all costs therefore shall be included in the bid item.

Boring Logs: A detailed log shall be prepared for each boring. The boring log shall be prepared in accordance with DOTD procedures, and shall contain at least the following information:

1) Date and time for start and completion of the boring
2) Location coordinates and surface elevation, noting datum used
3) Name of driller
4) Description of the drilling method used
5) Size and maximum depth of casing used
6) Description and dimensions of sampling devices used
7) Depth to top and bottom of each sample obtained; sample number; sample type; and sample recovery in inches
8) Complete description of each soil sample obtained, in accordance with applicable ASTM specifications
9) For Standard Penetration Tests, the number of hammer blows for each 6-inch increment of penetration, and the SPT N-value
10) The observed groundwater level
11) The depth to the bottom of hole
12) A description of any unusual observation or conditions encountered during drilling

Typed logs shall be prepared and submitted to the Project Engineer within seven calendar days following completion of the boring. All boring logs shall be signed and sealed by a geotechnical engineer who is a Professional Engineer licensed in the State of Louisiana.

The soil descriptions on the boring logs shall be revised, as appropriate, based on the results of the laboratory soil tests.

Laboratory Soil Testing: Following receipt of the soil boring logs, the Project Engineer will assign a laboratory testing program, including index tests, natural moisture contents, grain size analyses, and other tests determined by the Project Engineer.

The contractor shall perform the laboratory soil tests designated by the Project Engineer at a certified testing laboratory. The testing laboratory will be subject to the approval of the Project Engineer.

At least 50% of all Shelby tube sample in clays shall be tested to obtain:

- Atterberg limits
- Moisture content
- Strength tests, either unconfined compression test or unconsolidated undrained triaxial test.

The contractor may perform additional laboratory soil testing for his own purposes.

All laboratory soil tests shall be performed in accordance with the applicable ASTM test specification.

A report of all laboratory soil testing for any laboratory test order shall be submitted to the Project Engineer, the Geotechnical Engineers, and the DOTD within one calendar month of receiving the laboratory test order. The report shall include plots of grain size distribution for each grain size test, plots of Atterberg Limit points on a standard Plasticity Chart for each Atterberg Limit determination, and a

summary table of natural moisture contents. Reports for other types of laboratory tests shall be provided as directed by the Engineer.

The results of the drilling and testing shall be presented on DOTD core boring sheets providing the following information:

- Soil type and color
- Classification
- Wet density
- Moisture content
- Liquid limit
- Plasticity index
- q_u
- SPT or UU
- Failure Mode
- Sample number
- Depth
- Elevation
- Date taken
- Location
- Latitude
- Longitude

Copies of soil boring logs and soils analysis shall be provided to the Project Engineer, the Geotechnical Engineers, and the DOTD for review and acceptance.

Additional Borings and Laboratory Analysis: Depending on the findings during or after the soil borings are being taken, the Project Engineer may direct the contractor to:

- Obtain additional borings with associated laboratory analysis for samples obtained from these additional borings
- Extend the depth of project borings that have not been drilled and perform laboratory analysis for the samples obtained per these special provisions. Maximum extended depth shall not exceed 10 percent of the soil boring depth shown for that boring in the plans.

No additional payment shall be made for additional borings or extended depth borings that do not exceed 5 percent of the total length of all soil borings for the project.

All additional borings and laboratory analysis results shall be included in the report and core boring sheets.

Measurement and Payment: Payment will be made at the contract lump sum price for soil borings, which shall include all material, installation, tools, equipment, labor, incidentals, laboratory testing and the performance of all work necessary to complete the item.

Payment will be made under:

Item S-125, Soil Borings, per lump sum.

ITEMS S-301 THRU S-307, WATER RELOCATION: These items consist of constructing water mains, service connections, water valves, fire hydrants and. associated work. These items of work shall include all compensation received by the contractor for furnishing all tools, equipment, supplies, manufactured articles, labor, operations and incidentals necessary to complete the work.

This work shall be performed in accordance with plan details, Specifications for Huey P. Long Bridge Widening Water and Sewer Relocation, which includes the Jefferson Parish Department of Engineering Water Distribution System General Standard Notes and as directed by the Project Engineer.

The requirements of the Jefferson Parish Department of Engineering Water Distribution System General Standard Notes are further modified as follows:

a. Section 01030, Part 3 is deleted and replaced with the following: The contractor shall submit plans of excavation and dewatering to the engineer thirty (30) calendar days prior to the beginning of excavation.
b. Section 01625, Part 3.04, Initial Operation Testing, Item J is deleted.

At which time the proposal is received by prospective bidders, the Specifications referred to in the above paragraph shall be furnished by means of a compact disc (CD).

Payment for this work will be made under:

Item S-301, Pipe Fittings (Ductile Iron Bends, Tees, Wyes, Etc., per ton.
Item S-302, Removal of Water Line with Fittings, per linear foot.
Item S-303-A, Joint Restrainers (4" Ductile Iron), per each.
Item S-303-B, Joint Restrainers (8" Ductile Iron), per each.
Item S-303-C, Joint Restrainers (10" Ductile Iron), per each.
Item S-303-D, Joint Restrainers (12" Ductile Iron), per each.
Item S-303-E, Joint Restrainers (14" Ductile Iron), per each.
Item S-304-A, Fire Service Line (6" C-900), per linear foot.
Item S-304-B, Fire Service Line (8" C-900), per linear foot.
Item S-305-A, Fire Service Tap (6" C-900), per each.
Item S-305-B, Fire Service Tap (8" C-900), per each.
Item S-306-A, Mechanical Joint Adaptor (4"), per each.
Item S-306-B, Mechanical Joint Adaptor (6"), per each.
Item S-306-C, Mechanical Joint Adaptor (8"), per each.
Item S-306-D, Mechanical Joint Adaptor (10"), per each.
Item S-306-E, Mechanical Joint Adaptor (12"), per each.
Item S-306-F, Mechanical Joint Adaptor (14"), per each.
Item S-307, Bollards, per each.

ITEMS S-741-01 THRU S-741-05, S-741-13, AND S-741-15, WATER RELOCATION: These items consist of constructing water mains, service connections, water valves, fire hydrants and. associated work. These items of work shall include all compensation received by the contractor for furnishing all tools, equipment, supplies, manufactured articles, labor, operations and incidentals necessary to complete the work.

This work shall be performed in accordance with plan details, the Department's Supplemental Specifications entitled "Section 741, Water Distribution System" included elsewhere herein, and as directed by the Project Engineer.

Payment will be made under:

Item S-741-01-A, Water Line (8" HDPE), per linear foot.
Item S-741-01-B, Water Line (12" HDPE), per linear foot.
Item S-741-01-C, Water Line (14" HDPE), per linear foot.
Item S-741-01-D, Water Line (12" Ductile Iron), per linear foot.
Item S-741-01-E, Water Line (4" C-900), per linear foot.
Item S-741-01-F, Water Line (6" C-900), per linear foot.
Item S-741-01-G, Water Line (8" C-900), per linear foot.
Item S-741-01-H, Water Line (10" C-900), per linear foot.
Item S-741-01-I, Water Line (12" C-900), per linear foot.
Item S-741-01-J, Water Line (14" C-900), per linear foot.
Item S-741-01-K, Water Line (8" Ductile Iron), per linear foot.
Item S-741-01-L, Water Line (14" Ductile Iron), per linear foot.
Item S-741-02-A, Gate Valve (4" w/Cover), per each.
Item S-741-02-B, Gate Valve (6" w/Cover), per each.
Item S-741-02-C, Gate Valve (8" w/Cover), per each.
Item S-741-02-D, Gate Valve (10" w/Cover), per each.
Item S-741-02-E, Gate Valve (12" w/Cover), per each.
Item S-741-02-F, Gate Valve (14" w/Cover), per each.
Item S-741-03-A, Tapping Sleeve and Valve Assembly, (Up to 4"), per each.
Item S-741-03-B, Tapping Sleeve and Valve Assembly (6"), per each.
Item S-741-03-C, Tapping Sleeve and Valve Assembly (8"), per each.
Item S-741-04, Fire Hydrant, per each.
Item S-741-05-A, Water Service Line (Up to 4" HDPE), per linear foot.
Item S-741-05-B, Water Service Line (6" HDPE), per linear foot.
Item S-741-05-C, Water Service Line (8" HDPE), per linear foot.
Item S-741-13, Removing Fire Hydrant, per each.
Item S-741-15-A, Casing (24" Steel, Bored), per linear foot.
Item S-741-15-B, Casing (30" Steel, Bored), per linear foot.

INSURANCE

Subsection 107.08(n) of the Standard Specifications is amended to include the following:

The New Orleans Public Belt Railroad intends to keep all current policies covering the Huey P. Long Bridge in force during the project. The contractor shall carry first-party construction insurance to cover the replacement cost of the main bridge superstructure, main bridge piers, and any other railroad live load supporting structure that can be impacted by the contractor's work. Acceptable policy types which may fulfill this requirement include commercial, property
damage, liability umbrella, "builder's risk," or "all risk" policy types. The minimum replacement value shall be $167,000,000.00 as follows:

(a) Minimum "Replacement Value" including debris removal, design, and construction of new structure shall be $116,000,000.

(b) Minimum "Interruption to Operations" including additional rerouting, fuel, crew, and demurrage charges shall be $51,000,000.

Minimums define the total $167,000,000 coverage requirements under this contract. With respect to any loss for which insurance coverage exists, NOPBRR and the State of Louisiana agree that contractor's liability is limited to the amount recoverable under the policy(ies) of insurance plus the amount of contractor's deductible under such policy(ies) of insurance. Soft cost expenses are additional costs above the defined coverage requirements stated in Items (A), (B) and (C) above. Minimum Policies shall be $167,000,000 plus "soft cost expenses cover" (including attorneys' fees and fees and other costs associated with such damage or loss and with any governmental approvals) and shall be in a form, including stated exclusions, that is acceptable to the New Orleans Public Belt Railroad and the State of Louisiana.

The intent of this specification is to involve the New Orleans Public Belt Railroad as the bridge owner of the existing structure. Any material change in the insurance policy shall be considered to be any change in coverage and/or limits of coverage other than those specified in the initial coverage requirements.

The contractor shall include New Orleans Public Belt Railroad and the following tenant lines of the New Orleans Public Belt Railroad under its Public Liability and Property Damage Insurance:

Burlington Northern Santa Fe (BNSF)
Union Pacific Railroad (UP)
National Railroad Passengers Corporation (AMTRAK)
State of Louisiana (Named as Co-Insured)

LEAD PROJECT: 005-10-0037
OTHER PROJECTS: 006-01-0021, 006-02-0064

ITEM NUMBER	APPROXIMATE QUANTITY	UNIT OF MEASURE	PAY ITEM UNIT PRICE (IN WORDS, INK OR TYPED)
201-01	LUMP	LUMP SUM	CLEARING & GRUBBING _____ DOLLARS _____ CENTS
202-01	LUMP	LUMP SUM	REMOVAL OF STRUCTURES AND OBSTRUCTIONS _____ DOLLARS _____ CENTS
202-02-B-01	1	EACH	REMOVAL OF CONCRETE BOX CULVERTS (WBB 1076+77; 36" x 30" x 35') _____ DOLLARS _____ CENTS
202-02-B-02	1	EACH	REMOVAL OF CONCRETE BOX CULVERTS (EBB 1078+07; 36" x 30" x 42') _____ DOLLARS _____ CENTS
202-02-C	39,387	SQUARE YARD	REMOVAL OF PORTLAND CEMENT CONCRETE PAVEMENT _____ DOLLARS _____ CENTS
202-02-D	4,464	SQUARE YARD	REMOVAL OF CONCRETE WALKS & DRIVES _____ DOLLARS _____ CENTS

ITEM NUMBER	APPROXIMATE QUANTITY	UNIT OF MEASURE	PAY ITEM UNIT PRICE (IN WORDS, INK OR TYPED)
202-02-E	11,846.2	LINEAR FOOT	REMOVAL OF CONCRETE CURBS _____ DOLLARS _____ CENTS
202-02-H	3,261	LINEAR FOOT	REMOVAL OF GUARD RAIL _____ DOLLARS _____ CENTS
202-02-I	LUMP	LUMP SUM	REMOVAL OF TRAFFIC SIGNAL EQUIPMENT - WESTBANK _____ DOLLARS _____ CENTS
202-02-J	LUMP	LUMP SUM	REMOVAL OF TRAFFIC SIGNAL EQUIPMENT - EASTBANK _____ DOLLARS _____ CENTS
202-02-K	LUMP	LUMP SUM	REMOVAL OF EXISTING SIGNS AND SUPPORTS - WESTBANK _____ DOLLARS _____ CENTS
202-02-L	LUMP	LUMP SUM	REMOVAL OF EXISTING SIGNS AND SUPPORTS - EASTBANK _____ DOLLARS _____ CENTS

ITEM NUMBER	APPROXIMATE QUANTITY	UNIT OF MEASURE	PAY ITEM UNIT PRICE (IN WORDS, INK OR TYPED)
202-02-M	2	EACH	REMOVAL OF EXISTING OVERHEAD SIGN AND SUPPORT _____ DOLLARS _____ CENTS
202-03-A	1	EACH	RELOCATION OF BUS STOP SHELTER (UTAH BEACH ROAD) _____ DOLLARS _____ CENTS
202-03-B	22	EACH	RELOCATION OF EXISTING SIGNS AND SUPPORTS _____ DOLLARS _____ CENTS
202-05	1,050	CUBIC YARD	EXCAVATION, DISPOSAL AND BACKFILLING OF CONTAMINATED SOIL _____ DOLLARS _____ CENTS
203-01	70,076	CUBIC YARD	GENERAL EXCAVATION _____ DOLLARS _____ CENTS
203-02	4,457	CUBIC YARD	DRAINAGE EXCAVATION _____ DOLLARS _____ CENTS

ITEM NUMBER	APPROXIMATE QUANTITY	UNIT OF MEASURE	PAY ITEM UNIT PRICE (IN WORDS, INK OR TYPED)
203-03	3,443	CUBIC YARD	MUCK EXCAVATION _____ DOLLARS _____ CENTS
203-04	40,647	CUBIC YARD	EMBANKMENT _____ DOLLARS _____ CENTS
203-09	137,756	SQUARE YARD	GEOTEXTILE FABRIC _____ DOLLARS _____ CENTS
204-02	157	EACH	TEMPORARY HAY OR STRAW BALES _____ DOLLARS _____ CENTS
204-06	13,708	LINEAR FOOT	TEMPORARY SILT FENCING _____ DOLLARS _____ CENTS
302-02-A	9,470.5	SQUARE YARD	CLASS II BASE COURSE (6" THICK) _____ DOLLARS _____ CENTS

ITEM NUMBER	APPROXIMATE QUANTITY	UNIT OF MEASURE	PAY ITEM UNIT PRICE (IN WORDS, INK OR TYPED)
302-02-C	33,413.4	SQUARE YARD	CLASS II BASE COURSE (10" THICK) _____ DOLLARS _____ CENTS
302-02-D	90,892.8	SQUARE YARD	CLASS II BASE COURSE (12" THICK) _____ DOLLARS _____ CENTS
304-05	600.00	TON	LIME TREATMENT (TYPE E) _____ DOLLARS _____ CENTS
401-02	1,052.3	CUBIC YARD	AGGREGATE SURFACE COURSE (ADJUSTED VEHICULAR MEASUREMENT) _____ DOLLARS _____ CENTS
402-01	200.0	CUBIC YARD	TRAFFIC MAINTENANCE AGGREGATE (VEHICULAR MEASUREMENT) _____ DOLLARS _____ CENTS
502-01	22,895.8	TON	SUPERPAVE ASPHALTIC CONCRETE _____ DOLLARS _____ CENTS

ITEM NUMBER	APPROXIMATE QUANTITY	UNIT OF MEASURE	PAY ITEM UNIT PRICE (IN WORDS, INK OR TYPED)
502-01-A	1,663.3	TON	SUPERPAVE ASPHALTIC CONCRETE, DRIVES, TURNOUTS AND MISCELLANEOUS _____ DOLLARS _____ CENTS
509-01	26,764	SQUARE YARD	COLD PLANING ASPHALTIC PAVEMENT _____ DOLLARS _____ CENTS
509-02	-3,100	CUBIC YARD	CONTRACTOR RETAINED RECLAIMED ASPHALTIC PAVEMENT _____ DOLLARS _____ CENTS
601-01-G	13,455.5	SQUARE YARD	PORTLAND CEMENT CONCRETE PAVEMENT (8" THICK) _____ DOLLARS _____ CENTS
601-01-K	40,937.7	SQUARE YARD	PORTLAND CEMENT CONCRETE PAVEMENT (10" THICK) _____ DOLLARS _____ CENTS
601-02-G	5,773.8	SQUARE YARD	PORTLAND CEMENT CONCRETE PAVEMENT (8" THICK)(CROSSOVERS & TURNOUTS) _____ DOLLARS _____ CENTS

ITEM NUMBER	APPROXIMATE QUANTITY	UNIT OF MEASURE	PAY ITEM UNIT PRICE (IN WORDS, INK OR TYPED)
601-02-K	5,999.7	SQUARE YARD	PORTLAND CEMENT CONCRETE PAVEMENT (10" THICK) (CROSSOVERS & TURNOUTS) _____ DOLLARS _____ CENTS
601-03-G	2,780.3	SQUARE YARD	PORTLAND CEMENT CONCRETE SHOULDER (8" THICK) _____ DOLLARS _____ CENTS
601-03-K	10,130.3	SQUARE YARD	PORTLAND CEMENT CONCRETE SHOULDER (10" THICK) _____ DOLLARS _____ CENTS
601-04	98	EACH	PORTLAND CEMENT CONCRETE PAVEMENT CORING _____ DOLLARS _____ CENTS
602-08	123.3	SQUARE YARD	GRINDING CONCRETE PAVEMENT _____ DOLLARS _____ CENTS
701-02-D	95	LINEAR FOOT	CROSS DRAIN PIPE ARCH (24" EQUIV. RCPA) _____ DOLLARS _____ CENTS

ITEM NUMBER	APPROXIMATE QUANTITY	UNIT OF MEASURE	PAY ITEM UNIT PRICE (IN WORDS, INK OR TYPED)
701-02-E	415	LINEAR FOOT	CROSS DRAIN PIPE ARCH (30" EQUIV. RCPA) _____ DOLLARS _____ CENTS
701-02-F	217	LINEAR FOOT	CROSS DRAIN PIPE ARCH (36" EQUIV. RCPA) _____ DOLLARS _____ CENTS
701-03-F	4,419	LINEAR FOOT	STORM DRAIN PIPE (15" RCP/PCP) _____ DOLLARS _____ CENTS
701-03-F-01	473	LINEAR FOOT	STORM DRAIN PIPE (15" RCP/PCP) (OUTFALL) _____ DOLLARS _____ CENTS
701-03-G	1,970	LINEAR FOOT	STORM DRAIN PIPE (18" RCP/PCP) _____ DOLLARS _____ CENTS
701-03-G-01	92	LINEAR FOOT	STORM DRAIN PIPE (18" RCP/PCP) (OUTFALL) _____ DOLLARS _____ CENTS

ITEM NUMBER	APPROXIMATE QUANTITY	UNIT OF MEASURE	PAY ITEM UNIT PRICE (IN WORDS, INK OR TYPED)
701-03-I	4,858	LINEAR FOOT	STORM DRAIN PIPE (24" RCP/PCP) _____ DOLLARS _____ CENTS
701-03-K	2,124	LINEAR FOOT	STORM DRAIN PIPE (30" RCP/PCP) _____ DOLLARS _____ CENTS
701-03-K-01	16	LINEAR FOOT	STORM DRAIN PIPE (30" RCP/PCP) (OUTFALL) _____ DOLLARS _____ CENTS
701-03-M	1,473	LINEAR FOOT	STORM DRAIN PIPE (36" RCP/PCP) _____ DOLLARS _____ CENTS
701-04-A	262	LINEAR FOOT	STORM DRAIN PIPE ARCH (15" EQUIV. RCPA) _____ DOLLARS _____ CENTS
701-04-B	358	LINEAR FOOT	STORM DRAIN PIPE ARCH (18" EQUIV. RCPA) _____ DOLLARS _____ CENTS

ITEM NUMBER	APPROXIMATE QUANTITY	UNIT OF MEASURE	PAY ITEM UNIT PRICE (IN WORDS, INK OR TYPED)
701-04-D	1,205	LINEAR FOOT	STORM DRAIN PIPE ARCH (24" EQUIV. RCPA) _____ DOLLARS _____ CENTS
701-04-E	624	LINEAR FOOT	STORM DRAIN PIPE ARCH (30" EQUIV. RCPA) _____ DOLLARS _____ CENTS
701-04-F	739	LINEAR FOOT	STORM DRAIN PIPE ARCH (36" EQUIV. RCPA) _____ DOLLARS _____ CENTS
701-04-G	365	LINEAR FOOT	STORM DRAIN PIPE ARCH (42" EQUIV. RCPA) _____ DOLLARS _____ CENTS
701-04-H	727	LINEAR FOOT	STORM DRAIN PIPE ARCH (48" EQUIV. RCPA) _____ DOLLARS _____ CENTS
701-10-I	20	LINEAR FOOT	REINFORCED CONCRETE PIPE (EXTENSION)(24") _____ DOLLARS _____ CENTS

ITEM NUMBER	APPROXIMATE QUANTITY	UNIT OF MEASURE	PAY ITEM UNIT PRICE (IN WORDS, INK OR TYPED)
701-10-K	6	LINEAR FOOT	REINFORCED CONCRETE PIPE (EXTENSION)(30") _____ DOLLARS _____ CENTS
701-13-G	6	LINEAR FOOT	CORRUGATED METAL PIPE ARCH (EXTENSION)(42" EQUIV.) _____ DOLLARS _____ CENTS
701-15	1	EACH	CONCRETE COLLAR _____ DOLLARS _____ CENTS
702-02-B	33	EACH	MANHOLES (R-CB-11) _____ DOLLARS _____ CENTS
702-02-C	3	EACH	MANHOLES (R-CB-11 MOD) _____ DOLLARS _____ CENTS
702-03-A	32	EACH	CATCH BASINS (CB-01) _____ DOLLARS _____ CENTS

ITEM NUMBER	APPROXIMATE QUANTITY	UNIT OF MEASURE	PAY ITEM UNIT PRICE (IN WORDS, INK OR TYPED)
702-03-B	7	EACH	CATCH BASINS (CB-02) _____ DOLLARS _____ CENTS
702-03-C	95	EACH	CATCH BASINS (CB-06) _____ DOLLARS _____ CENTS
702-03-D	21	EACH	CATCH BASINS (CB-07) _____ DOLLARS _____ CENTS
702-03-F	54	EACH	CATCH BASINS (CB-08) _____ DOLLARS _____ CENTS
702-03-G	1	EACH	CATCH BASINS (CB-09) _____ DOLLARS _____ CENTS
702-03-I	1	EACH	CATCH BASINS (CB-04) _____ DOLLARS _____ CENTS

ITEM NUMBER	APPROXIMATE QUANTITY	UNIT OF MEASURE	PAY ITEM UNIT PRICE (IN WORDS, INK OR TYPED)
702-04-A	9	EACH	ADJUSTING MANHOLES _____ DOLLARS _____ CENTS
702-04-B	12	EACH	ADJUSTING CATCH BASINS _____ DOLLARS _____ CENTS
704-01-A	31.3	LINEAR FOOT	GUARD RAIL (SINGLE THRIE BEAM)(3'-1 1/2" POST SPACING) _____ DOLLARS _____ CENTS
704-01-B	362.5	LINEAR FOOT	GUARD RAIL (SINGLE THRIE BEAM)(6'-3" POST SPACING) _____ DOLLARS _____ CENTS
704-01-C	342.9	LINEAR FOOT	GUARD RAIL (DOUBLE THRIE BEAM)(3'-1 1/2" POST SPACING) _____ DOLLARS _____ CENTS
704-03	2,568.9	LINEAR FOOT	BLOCKED OUT GUARD RAIL _____ DOLLARS _____ CENTS

ITEM NUMBER	APPROXIMATE QUANTITY	UNIT OF MEASURE	PAY ITEM UNIT PRICE (IN WORDS, INK OR TYPED)
704-06	43.8	LINEAR FOOT	GUARD RAIL ANCHOR SECTIONS (TRAILING END) _____ DOLLARS _____ CENTS
704-06-A	31.4	LINEAR FOOT	GUARD RAIL ANCHOR SECTIONS (TRAILING END)(SINGLE THRIE BEAM) _____ DOLLARS _____ CENTS
704-07-A	12.5	LINEAR FOOT	GUARD RAIL BRIDGE ATTACHMENTS (SINGLE THRIE BEAM) _____ DOLLARS _____ CENTS
704-08-B	200.0	LINEAR FOOT	GUARD RAIL TRANSITIONS (DOUBLE THRIE BEAM) _____ DOLLARS _____ CENTS
704-11-A	13	EACH	GUARD RAIL END TREATMENT (FLARED) _____ DOLLARS _____ CENTS
705-06-B	6,407	LINEAR FOOT	CHAIN LINK FENCE (5-FOOT HEIGHT) _____ DOLLARS _____ CENTS

ITEM NUMBER	APPROXIMATE QUANTITY	UNIT OF MEASURE	PAY ITEM UNIT PRICE (IN WORDS, INK OR TYPED)
705-06-D	1,819	LINEAR FOOT	CHAIN LINK FENCE (7-FOOT HEIGHT) _____ DOLLARS _____ CENTS
705-08-D	2	DOUBLE GATE	26-FOOT DOUBLE GATES FOR CHAIN LINK FENCE (7-FOOT HEIGHT) _____ DOLLARS _____ CENTS
706-01-A	1,105.3	SQUARE YARD	CONCRETE WALK (4" THICK) _____ DOLLARS _____ CENTS
706-02-C	1,269.2	SQUARE YARD	CONCRETE DRIVE (6" THICK) _____ DOLLARS _____ CENTS
706-03-A	4,370.6	SQUARE YARD	INCIDENTAL CONCRETE PAVING (4" THICK) _____ DOLLARS _____ CENTS
706-03-C	1,403.7	SQUARE YARD	INCIDENTAL CONCRETE PAVING (6" THICK) _____ DOLLARS _____ CENTS

ITEM NUMBER	APPROXIMATE QUANTITY	UNIT OF MEASURE	PAY ITEM UNIT PRICE (IN WORDS, INK OR TYPED)
707-01	14,893.9	LINEAR FOOT	CONCRETE CURB _____ DOLLARS _____ CENTS
707-03	15,340.0	LINEAR FOOT	COMBINATION CONCRETE CURB & GUTTER _____ DOLLARS _____ CENTS
707-04	8.0	LINEAR FOOT	ASPHALTIC CURB _____ DOLLARS _____ CENTS
708-01	235	EACH	RIGHT-OF-WAY MONUMENT _____ DOLLARS _____ CENTS
708-02	171	EACH	RIGHT-OF-WAY MONUMENT WITNESS POST _____ DOLLARS _____ CENTS
711-02-C	1,751	CUBIC YARD	RIPRAP (30 LB) _____ DOLLARS _____ CENTS

ITEM NUMBER	APPROXIMATE QUANTITY	UNIT OF MEASURE	PAY ITEM UNIT PRICE (IN WORDS, INK OR TYPED)
711-04	3,504	SQUARE YARD	GEOTEXTILE FABRIC _____ DOLLARS _____ CENTS
713-01	LUMP	LUMP SUM	TEMPORARY SIGNS & BARRICADES _____ DOLLARS _____ CENTS
713-03-A	22,606	LINEAR FOOT	TEMPORARY PAVEMENT MARKINGS (4" WIDTH) _____ DOLLARS _____ CENTS
713-03-C	9,749	LINEAR FOOT	TEMPORARY PAVEMENT MARKINGS (8" WIDTH) _____ DOLLARS _____ CENTS
713-03-E	1,569	LINEAR FOOT	TEMPORARY PAVEMENT MARKINGS (24" WIDTH) _____ DOLLARS _____ CENTS
713-04-B	8.710	MILE	TEMPORARY PAVEMENT MARKINGS (BROKEN LINE) (4" WIDTH) (10' LENGTH) _____ DOLLARS _____ CENTS

ITEM NUMBER	APPROXIMATE QUANTITY	UNIT OF MEASURE	PAY ITEM UNIT PRICE (IN WORDS, INK OR TYPED)
713-06-A	53	EACH	TEMPORARY PAVEMENT LEGENDS AND SYMBOLS (ARROW) _____ DOLLARS _____ CENTS
713-06-B	13	EACH	TEMPORARY PAVEMENT LEGENDS AND SYMBOLS (DOUBLE ARROW) _____ DOLLARS _____ CENTS
713-07	433	EACH	TEMPORARY REFLECTORIZED RAISED PAVEMENT MARKERS _____ DOLLARS _____ CENTS
713-08	34	EACH	TEMPORARY PRECAST CONCRETE BARRIER (CONTRACTOR FURNISHED) _____ DOLLARS _____ CENTS
714-01	72	SQUARE YARD	SLAB SODDING _____ DOLLARS _____ CENTS
716-01-A	65.95	ACRE	MULCH (VEGETATIVE) _____ DOLLARS _____ CENTS

ITEM NUMBER	APPROXIMATE QUANTITY	UNIT OF MEASURE	PAY ITEM UNIT PRICE (IN WORDS, INK OR TYPED)
717-01	3,958	POUND	SEEDING _____ DOLLARS _____ CENTS
718-01	131,887	POUND	FERTILIZER _____ DOLLARS _____ CENTS
720-01-A	24,900	SQUARE YARD	EROSION CONTROL SYSTEM, SLOPE PROTECTION (TYPE A) _____ DOLLARS _____ CENTS
722-02	2	EACH	PROJECT SITE LABORATORY (EQUIPPED) _____ DOLLARS _____ CENTS
722-03	1	EACH	FIELD OFFICE _____ DOLLARS _____ CENTS
722-04	LUMP	LUMP SUM	COATING INSPECTOR AND ENVIRONMENTAL MONITOR LABORATORY _____ DOLLARS _____ CENTS

ITEM NUMBER	APPROXIMATE QUANTITY	UNIT OF MEASURE	PAY ITEM UNIT PRICE (IN WORDS, INK OR TYPED)
724-01	100	SQUARE YARD	PAVEMENT PATCHING _____ DOLLARS _____ CENTS
725-02-A	3,315.0	SQUARE YARD	TEMPORARY DETOUR ROADS (TYPE A) _____ DOLLARS _____ CENTS
725-02-B	2,450.0	SQUARE YARD	TEMPORARY DETOUR ROADS (TYPE B) _____ DOLLARS _____ CENTS
725-02-C	1,765.0	SQUARE YARD	TEMPORARY DETOUR ROADS (TYPE C) _____ DOLLARS _____ CENTS
725-02-D	1,145.0	SQUARE YARD	TEMPORARY DETOUR ROADS (TYPE D) _____ DOLLARS _____ CENTS
726-01	10,664.9	CUBIC YARD	BEDDING MATERIAL _____ DOLLARS _____ CENTS

ITEM NUMBER	APPROXIMATE QUANTITY	UNIT OF MEASURE	PAY ITEM UNIT PRICE (IN WORDS, INK OR TYPED)
727-01	LUMP	LUMP SUM	MOBILIZATION _____ DOLLARS _____ CENTS
728-01-A	100.0	LINEAR FOOT	JACKED OR BORED PIPE (24" RCP, CLASS III) _____ DOLLARS _____ CENTS
728-01-B	65.0	LINEAR FOOT	JACKED OR BORED PIPE (30" RCP, CLASS III) _____ DOLLARS _____ CENTS
729-01	1,864.3	SQUARE FOOT	SIGN (TYPE A) _____ DOLLARS _____ CENTS
729-02	192.4	SQUARE FOOT	SIGN (TYPE B) _____ DOLLARS _____ CENTS
729-04	1,132.4	SQUARE FOOT	SIGN (TYPE D) _____ DOLLARS _____ CENTS

ITEM NUMBER	APPROXIMATE QUANTITY	UNIT OF MEASURE	PAY ITEM UNIT PRICE (IN WORDS, INK OR TYPED)
729-06	1,069.2	SQUARE FOOT	SIGN (OVERHEAD MOUNTED) _____ DOLLARS _____ CENTS
729-08-A	244	EACH	MOUNTING (2 1/2" POST) _____ DOLLARS _____ CENTS
729-08-B	70	EACH	MOUNTING (3 1/2" POST) _____ DOLLARS _____ CENTS
729-08-C	4	EACH	MOUNTING (5" POST) _____ DOLLARS _____ CENTS
729-08-G	2	EACH	MOUNTING (W8 X 18) _____ DOLLARS _____ CENTS
729-10	4	EACH	MOUNTING (OVERHEAD TRUSS) (STRUCTURE MOUNTED) _____ DOLLARS _____ CENTS

ITEM NUMBER	APPROXIMATE QUANTITY	UNIT OF MEASURE	PAY ITEM UNIT PRICE (IN WORDS, INK OR TYPED)
729-16-B	18	EACH	OBJECT MARKER ASSEMBLY (TYPE 2) _____ DOLLARS _____ CENTS
729-16-C	1	EACH	OBJECT MARKER ASSEMBLY (TYPE 3) _____ DOLLARS _____ CENTS
729-17	21	EACH	MILEPOST ASSEMBLY (GROUND MOUNTED) _____ DOLLARS _____ CENTS
729-21	20	EACH	U-CHANNEL POST _____ DOLLARS _____ CENTS
731-01	4,218	EACH	NONREFLECTORIZED RAISED PAVEMENT MARKERS _____ DOLLARS _____ CENTS
731-02	9,806	EACH	REFLECTORIZED RAISED PAVEMENT MARKERS _____ DOLLARS _____ CENTS

ITEM NUMBER	APPROXIMATE QUANTITY	UNIT OF MEASURE	PAY ITEM UNIT PRICE (IN WORDS, INK OR TYPED)
732-01-C-03	25,294	LINEAR FOOT	PLASTIC PAVEMENT STRIPING (8" WIDTH) HOT APPL THERMO (40 MIL THICKNESS) _____ DOLLARS _____ CENTS
732-01-E-03	4,755	LINEAR FOOT	PLASTIC PAVEMENT STRIPING (24" WIDTH) HOT APPL THERMO (40 MIL THICKNESS) _____ DOLLARS _____ CENTS
732-02-A-03	21.682	MILE	PLAST PVMT STRIPING(SOLID LINE)(4" WIDTH)HOT APPL THERMO (40MIL THICKNESS) _____ DOLLARS _____ CENTS
732-03-A-03	15.746	MILE	PLASTIC PVMT STRIPING(BROKEN LINE)(4" WIDTH) HOT APPL THERMO (40 MIL THICK _____ DOLLARS _____ CENTS
732-04-A	82	EACH	PLASTIC PAVEMENT LEGENDS & SYMBOLS (ARROW) _____ DOLLARS _____ CENTS
732-04-B	13	EACH	PLASTIC PAVEMENT LEGENDS & SYMBOLS (DOUBLE ARROW) _____ DOLLARS _____ CENTS

ITEM NUMBER	APPROXIMATE QUANTITY	UNIT OF MEASURE	PAY ITEM UNIT PRICE (IN WORDS, INK OR TYPED)
732-04-D	7	EACH	PLASTIC PAVEMENT LEGENDS & SYMBOLS (RR CROSSING) _____ DOLLARS _____ CENTS
732-05	0.499	MILE	REMOVAL OF EXISTING MARKINGS _____ DOLLARS _____ CENTS
733-01-A	445.3	LINEAR FOOT	CONCRETE ROADWAY BARRIER (32" HEIGHT) _____ DOLLARS _____ CENTS
733-01-B	395.8	LINEAR FOOT	CONCRETE ROADWAY BARRIER (54" HEIGHT) _____ DOLLARS _____ CENTS
736-01	4,011	LINEAR FOOT	TRENCHING AND BACKFILLING _____ DOLLARS _____ CENTS
736-03-A	1,177	LINEAR FOOT	JACKED OR BORED CONDUIT (2" P.E.C., SCHEDULE 80) _____ DOLLARS _____ CENTS

ITEM NUMBER	APPROXIMATE QUANTITY	UNIT OF MEASURE	PAY ITEM UNIT PRICE (IN WORDS, INK OR TYPED)
736-03-B	2,041	LINEAR FOOT	JACKED OR BORED CONDUIT (3" P.E.C., SCHEDULE 80) _____ DOLLARS _____ CENTS
736-03-C	5,750	LINEAR FOOT	JACKED OR BORED CONDUIT (4" MULTIDUCT WITH 3 - 1 1/2" CONDUITS, P.E.C., SCHEDULE 80) _____ DOLLARS _____ CENTS
736-04-A	5	EACH	SIGNAL SUPPORT (MAST ARM POLE, DUAL ARMS, 25' AND 50') _____ DOLLARS _____ CENTS
736-04-B	1	EACH	SIGNAL SUPPORT (MAST ARM POLE, DUAL ARMS, 30' AND 55') _____ DOLLARS _____ CENTS
736-04-C	1	EACH	SIGNAL SUPPORT (MAST ARM POLE, DUAL ARMS, 35' AND 50') _____ DOLLARS _____ CENTS
736-04-D	1	EACH	SIGNAL SUPPORT (MAST ARM POLE, DUAL ARMS, 35' AND 55') _____ DOLLARS _____ CENTS

ITEM NUMBER	APPROXIMATE QUANTITY	UNIT OF MEASURE	PAY ITEM UNIT PRICE (IN WORDS, INK OR TYPED)
736-04-E	1	EACH	SIGNAL SUPPORT (MAST ARM POLE, DUAL ARMS, 40' AND 55') _____ DOLLARS _____ CENTS
736-04-F	3	EACH	SIGNAL SUPPORT (MAST ARM POLE, DUAL ARMS, 45' AND 50') _____ DOLLARS _____ CENTS
736-04-G	3	EACH	SIGNAL SUPPORT (MAST ARM POLE, DUAL ARMS, 50' AND 55') _____ DOLLARS _____ CENTS
736-04-H	1	EACH	SIGNAL SUPPORT (MAST ARM POLE, DUAL ARMS, 55' AND 55') _____ DOLLARS _____ CENTS
736-04-I	1	EACH	SIGNAL SUPPORT (MAST ARM POLE, 15' ARM) _____ DOLLARS _____ CENTS
736-04-J	1	EACH	SIGNAL SUPPORT (MAST ARM POLE, 45' ARM) _____ DOLLARS _____ CENTS

ITEM NUMBER	APPROXIMATE QUANTITY	UNIT OF MEASURE	PAY ITEM UNIT PRICE (IN WORDS, INK OR TYPED)
736-04-K	1	EACH	SIGNAL SUPPORT (MAST ARM POLE, 50' ARM) _____ DOLLARS _____ CENTS
736-04-L	1	EACH	SIGNAL SUPPORT (MAST ARM POLE, 55' ARM) _____ DOLLARS _____ CENTS
736-04-M	3	EACH	SIGNAL SUPPORT (MAST ARM POLE, 60' ARM) _____ DOLLARS _____ CENTS
736-04-N	2	EACH	SIGNAL SUPPORT (PEDESTAL POLE, 10') _____ DOLLARS _____ CENTS
736-04-O	17	EACH	SIGNAL SUPPORT (STRAIN POLE) _____ DOLLARS _____ CENTS
736-04-P	1	EACH	SIGNAL SUPPORT (MAST ARM POLE, 30' ARM) _____ DOLLARS _____ CENTS

ITEM NUMBER	APPROXIMATE QUANTITY	UNIT OF MEASURE	PAY ITEM UNIT PRICE (IN WORDS, INK OR TYPED)
736-05-A	84	EACH	SIGNAL HEADS (3-SECTION , 12" LED LENS, R, Y, G) _____ DOLLARS _____ CENTS
736-05-B	30	EACH	SIGNAL HEADS (3-SECTION , 12" LED LENS, R, LT. Y, LT. G) _____ DOLLARS _____ CENTS
736-05-C	2	EACH	SIGNAL HEADS (3-SECTION , 12" LED LENS, R, RT. Y, RT. G) _____ DOLLARS _____ CENTS
736-05-D	7	EACH	SIGNAL HEADS (3-SECTION , 12" LENS, R, Y, G, OPTICALLY PROGRAMMED) _____ DOLLARS _____ CENTS
736-05-E	6	EACH	SIGNAL HEADS (3-SECTION , 12" LENS, R, LT.Y LT. G, OPTICALLY PROGRAMMED) _____ DOLLARS _____ CENTS
736-06	8	EACH	SIGNAL SERVICE (PEDESTAL MOUNTED) _____ DOLLARS _____ CENTS

ITEM NUMBER	APPROXIMATE QUANTITY	UNIT OF MEASURE	PAY ITEM UNIT PRICE (IN WORDS, INK OR TYPED)
736-08	8	EACH	SIGNAL CONTROLLER (NEWA TS2, TYPE 2, 8-PHASE, TYPE 6 BASE MOUNTED CABINET) _____ DOLLARS _____ CENTS
736-09	4,375	LINEAR FOOT	LOOP DETECTOR (SAWCUT, LOOP WIRE, SEALANT) _____ DOLLARS _____ CENTS
736-10-A	9	EACH	UNDERGROUND JUNCTION BOX (TYPE D) _____ DOLLARS _____ CENTS
736-10-B	15	EACH	UNDERGROUND JUNCTION BOX (TYPE E) _____ DOLLARS _____ CENTS
736-10-C	35	EACH	UNDERGROUND JUNCTION BOX (TYPE F) _____ DOLLARS _____ CENTS
736-10-D	5	EACH	UNDERGROUND JUNCTION BOX (TYPE H) _____ DOLLARS _____ CENTS

ITEM NUMBER	APPROXIMATE QUANTITY	UNIT OF MEASURE	PAY ITEM UNIT PRICE (IN WORDS, INK OR TYPED)
736-11-A	2,471	LINEAR FOOT	CONDUIT (1/2" P.E.C., SCHEDULE 80) _____ DOLLARS _____ CENTS
736-11-B	1,695	LINEAR FOOT	CONDUIT (2" P.E.C., SCHEDULE 80) _____ DOLLARS _____ CENTS
736-11-C	1,422	LINEAR FOOT	CONDUIT (3" P.E.C., SCHEDULE 80) _____ DOLLARS _____ CENTS
736-12-A	2,471	LINEAR FOOT	CONDUCTOR (2C, LOOP LEAD-IN/#14 AWG STRANDED AND SHIELDED) _____ DOLLARS _____ CENTS
736-12-B	9,947	LINEAR FOOT	CONDUCTOR (2C, #14 AWG STRANDED) _____ DOLLARS _____ CENTS
736-12-C	695	LINEAR FOOT	CONDUCTOR (3C, POWER, 6 GAUGE /#6 AWG) _____ DOLLARS _____ CENTS

ITEM NUMBER	APPROXIMATE QUANTITY	UNIT OF MEASURE	PAY ITEM UNIT PRICE (IN WORDS, INK OR TYPED)
736-12-D	3,043	LINEAR FOOT	CONDUCTOR (6C, SIGNAL /#14 AWG) _____ DOLLARS _____ CENTS
736-12-E	11,872	LINEAR FOOT	CONDUCTOR (10C, SIGNAL /#14 AWG) _____ DOLLARS _____ CENTS
740-01	LUMP	LUMP SUM	CONSTRUCTION LAYOUT _____ DOLLARS _____ CENTS
744-01	LUMP	LUMP SUM	TRAFFIC CONTROL MANAGEMENT _____ DOLLARS _____ CENTS
802-01	23,790.9	CUBIC YARD	STRUCTURAL EXCAVATION _____ DOLLARS _____ CENTS
802-03	572.3	CUBIC YARD	STRUCTURAL EXCAVATION FOR PIERS (DRY) _____ DOLLARS _____ CENTS

ITEM NUMBER	APPROXIMATE QUANTITY	UNIT OF MEASURE	PAY ITEM UNIT PRICE (IN WORDS, INK OR TYPED)
802-04	11,028.5	CUBIC YARD	STRUCTURAL EXCAVATION FOR PIERS (WET) _____ DOLLARS _____ CENTS
802-05	LUMP	LUMP SUM	COFFERDAMS _____ DOLLARS _____ CENTS
804-01-C	98,715	LINEAR FOOT	PRECAST CONCRETE PILES (16") _____ DOLLARS _____ CENTS
804-03-F	132,048	LINEAR FOOT	STEEL PILES (HP 14X73) _____ DOLLARS _____ CENTS
804-03-G	196,525	LINEAR FOOT	STEEL PILES (HP 14X89) _____ DOLLARS _____ CENTS
804-03-I	42,296	LINEAR FOOT	STEEL PILES (HP 14X117) _____ DOLLARS _____ CENTS

ITEM NUMBER	APPROXIMATE QUANTITY	UNIT OF MEASURE	PAY ITEM UNIT PRICE (IN WORDS, INK OR TYPED)
804-05	4	EACH	PRECAST CONCRETE TEST PILES _____ DOLLARS _____ CENTS
804-07	21	EACH	STEEL TEST PILES _____ DOLLARS _____ CENTS
804-09	25	EACH	LOADING TEST PILES _____ DOLLARS _____ CENTS
804-10	1	EACH	RELOADING TEST PILES _____ DOLLARS _____ CENTS
804-11	1	EACH	REDRIVING TEST PILES _____ DOLLARS _____ CENTS
804-12	1	EACH	LOADING PERMANENT PILES _____ DOLLARS _____ CENTS

ITEM NUMBER	APPROXIMATE QUANTITY	UNIT OF MEASURE	PAY ITEM UNIT PRICE (IN WORDS, INK OR TYPED)
804-17	262	EACH	DYNAMIC MONITORING _____ DOLLARS _____ CENTS
805-01	83.39	CUBIC YARD	CLASS A CONCRETE _____ DOLLARS _____ CENTS
805-01-A	37.89	CUBIC YARD	CLASS A CONCRETE (PIPE HEADWALLS) _____ DOLLARS _____ CENTS
805-01-B	99.31	CUBIC YARD	CLASS A CONCRETE (BOX CULVERT HEADWALLS) _____ DOLLARS _____ CENTS
805-01-D	17,969.19	CUBIC YARD	CLASS A CONCRETE (FOOTINGS) _____ DOLLARS _____ CENTS
805-01-E	7,712.75	CUBIC YARD	CLASS A CONCRETE (PIERS) _____ DOLLARS _____ CENTS

ITEM NUMBER	APPROXIMATE QUANTITY	UNIT OF MEASURE	PAY ITEM UNIT PRICE (IN WORDS, INK OR TYPED)
805-01-F	29,393.88	CUBIC YARD	CLASS A CONCRETE (BENTS) _____ DOLLARS _____ CENTS
805-03	31,776.13	CUBIC YARD	CLASS AA CONCRETE _____ DOLLARS _____ CENTS
805-04	4,604.10	CUBIC YARD	CLASS AA(M) CONCRETE _____ DOLLARS _____ CENTS
805-08-C	56,594.4	LINEAR FOOT	PRECAST-PRESTRESSED CONCRETE GIRDERS (TYPE III) _____ DOLLARS _____ CENTS
805-08-D	4,728.2	LINEAR FOOT	PRECAST-PRESTRESSED CONCRETE GIRDERS (TYPE IV) _____ DOLLARS _____ CENTS
805-08-I	32,699.8	LINEAR FOOT	PRECAST-PRESTRESSED CONCRETE GIRDERS (TYPE BT-78) _____ DOLLARS _____ CENTS

ITEM NUMBER	APPROXIMATE QUANTITY	UNIT OF MEASURE	PAY ITEM UNIT PRICE (IN WORDS, INK OR TYPED)
805-11	4,008.92	LINEAR FOOT	STRIP SEAL JOINTS _____ DOLLARS _____ CENTS
805-12-F	596.0	LINEAR FOOT	REINFORCED CONCRETE BOX CULVERTS (5'X 4') _____ DOLLARS _____ CENTS
805-12-J	3,750.0	LINEAR FOOT	REINFORCED CONCRETE BOX CULVERTS (6'X 5') _____ DOLLARS _____ CENTS
805-12-K	4,494.0	LINEAR FOOT	REINFORCED CONCRETE BOX CULVERTS (7'X 5') _____ DOLLARS _____ CENTS
806-01	23,230,212	POUND	DEFORMED REINFORCING STEEL _____ DOLLARS _____ CENTS
807-06	LUMP	LUMP SUM	STRUCTURAL METALWORK _____ DOLLARS _____ CENTS

ITEM NUMBER	APPROXIMATE QUANTITY	UNIT OF MEASURE	PAY ITEM UNIT PRICE (IN WORDS, INK OR TYPED)
810-01-A	32,010.80	LINEAR FOOT	CONCRETE RAILING (PL-2) _____ DOLLARS _____ CENTS
810-01-B	17,872.92	LINEAR FOOT	CONCRETE RAILING (PL-3) _____ DOLLARS _____ CENTS
810-03	24,974.19	LINEAR FOOT	PIPE RAILING _____ DOLLARS _____ CENTS
813-02	4,552.51	SQUARE YARD	CONCRETE APPROACH SLABS (PILE SUPPORTED) _____ DOLLARS _____ CENTS
814-01-J	1,840.0	LINEAR FOOT	DRILLED SHAFT (9-FT DIAMETER) _____ DOLLARS _____ CENTS
814-02-J	184.0	LINEAR FOOT	TEST HOLE (9-FT DIAMETER) _____ DOLLARS _____ CENTS

ITEM NUMBER	APPROXIMATE QUANTITY	UNIT OF MEASURE	PAY ITEM UNIT PRICE (IN WORDS, INK OR TYPED)
814-03	650.0	LINEAR FOOT	PERMANENT CASING _____ DOLLARS _____ CENTS
814-04-J	13	EACH	CROSSHOLE SONIC LOGGING (9-FT DIAMETER) _____ DOLLARS _____ CENTS
S-001	6	EACH	SPECIAL CATCH BASIN (S-1) _____ DOLLARS _____ CENTS
S-002	3	EACH	JEFFERSON PARISH CATCH BASIN (TYPE 4) _____ DOLLARS _____ CENTS
S-003	LUMP	LUMP SUM	TEMPORARY DRIVEWAY (SEWAGE TREATMENT PLANT) _____ DOLLARS _____ CENTS
S-004	LUMP	LUMP SUM	CONCRETE DRAINAGE CHUTE AND INLET (WBB 1110+71) _____ DOLLARS _____ CENTS

ITEM NUMBER	APPROXIMATE QUANTITY	UNIT OF MEASURE	PAY ITEM UNIT PRICE (IN WORDS, INK OR TYPED)
S-005	7	EACH	SPECIAL GUARD RAIL ANCHOR SECTION (6'-3") _____ DOLLARS _____ CENTS
S-006	16	EACH	CONCRETE ROADWAY BARRIER TRANSITION (54" TO 32") _____ DOLLARS _____ CENTS
S-007	11	EACH	CONCRETE ROADWAY BARRIER TRANSITION (32" TO BARRIER OR MOUNTABLE CURB) (20' TO 10' TRANSITION) _____ DOLLARS _____ CENTS
S-008	2	EACH	CONCRETE ROADWAY BARRIER END TRANSITION TO GUARD RAIL _____ DOLLARS _____ CENTS
S-009	1	EACH	IMPACT ATTENUATOR (KINETIC) (EBB 1091+60) _____ DOLLARS _____ CENTS
S-010	1	EACH	IMPACT ATTENUATOR (KINETIC) (L18W 650+28) _____ DOLLARS _____ CENTS

ITEM NUMBER	APPROXIMATE QUANTITY	UNIT OF MEASURE	PAY ITEM UNIT PRICE (IN WORDS, INK OR TYPED)
S-011	1	EACH	IMPACT ATTENUATOR (KINETIC)(L18E 850+01) _____ DOLLARS _____ CENTS
S-012	1	EACH	IMPACT ATTENUATOR (KINETIC)(WBB 964+25) _____ DOLLARS _____ CENTS
S-013	LUMP	LUMP SUM	JUNCTION BOX (BCW 253+40) _____ DOLLARS _____ CENTS
S-014	2	EACH	CONCRETE ROADWAY BARRIER TRANSITION (32" TO BARRIER CURB)(40' TRANSITION) _____ DOLLARS _____ CENTS
S-015	8	EACH	VIDEO DETECTION DEVICE AND CONNECTION _____ DOLLARS _____ CENTS
S-016	3	EACH	VIDEO DETECTION SYSTEM _____ DOLLARS _____ CENTS

ITEM NUMBER	APPROXIMATE QUANTITY	UNIT OF MEASURE	PAY ITEM UNIT PRICE (IN WORDS, INK OR TYPED)
S-017	3	EACH	PEDESTRIAN PUSHBUTTONS _____ DOLLARS _____ CENTS
S-018	3	EACH	LED PEDESTRIAN SIGNAL HEAD _____ DOLLARS _____ CENTS
S-019	1	EACH	COMMUNICATION TOWER _____ DOLLARS _____ CENTS
S-020	1	EACH	ANTENNA _____ DOLLARS _____ CENTS
S-021	1	EACH	RADIO COMMUNICATION SYSTEM _____ DOLLARS _____ CENTS
S-022	200	LINEAR FOOT	FIBER OPTIC DROP CABLE, (12 FIBER, SINGLE MODE) _____ DOLLARS _____ CENTS

ITEM NUMBER	APPROXIMATE QUANTITY	UNIT OF MEASURE	PAY ITEM UNIT PRICE (IN WORDS, INK OR TYPED)
S-023	6,950	LINEAR FOOT	FIBER OPTIC TRUNK CABLE (48 FIBER, SINGLE MODE) _____ DOLLARS _____ CENTS
S-024	9	EACH	FIBER OPTIC SPLICE CLOSURE (TYPE M) _____ DOLLARS _____ CENTS
S-025	6	EACH	PRETERMINATED PATCH PANEL (12F, SC DUPLEX SM) _____ DOLLARS _____ CENTS
S-026	9	EACH	FUSION SPLICE _____ DOLLARS _____ CENTS
S-027	6	EACH	PATCH CORD (SINGLE MODE 2F, SC-LC 1 METER) _____ DOLLARS _____ CENTS
S-028	6	EACH	ETHERNET SWITCH _____ DOLLARS _____ CENTS

ITEM NUMBER	APPROXIMATE QUANTITY	UNIT OF MEASURE	PAY ITEM UNIT PRICE (IN WORDS, INK OR TYPED)
S-029	LUMP	LUMP SUM	TESTING _____ DOLLARS _____ CENTS
S-030	4	EACH	PULL BOX (TYPE GG, 24" x 36" X 36") _____ DOLLARS _____ CENTS
S-031	5	EACH	PULL BOX (TYPE HH, 30" x 48" X 36") _____ DOLLARS _____ CENTS
S-032	37	EACH	ADJUST SIGNAL HEAD (3 SECTION, 12" LED LENS, RYG) _____ DOLLARS _____ CENTS
S-033	12	EACH	ADJUST SIGNAL HEAD (3 SECTION, 12" LED LENS, R LT. Y LT. G) _____ DOLLARS _____ CENTS
S-034	151.0	LINEAR FOOT	HANDRAIL _____ DOLLARS _____ CENTS

ITEM NUMBER	APPROXIMATE QUANTITY	UNIT OF MEASURE	PAY ITEM UNIT PRICE (IN WORDS, INK OR TYPED)
S-035	LUMP	LUMP SUM	EASTBANK RAILROAD SPUR AND STUB TRACKWORK _____ DOLLARS _____ CENTS
S-036	1,861	CUBIC YARD	RAILROAD SUB-BALLAST _____ DOLLARS _____ CENTS
S-037	1,415	CUBIC YARD	RAILROAD GRANITE BALLAST _____ DOLLARS _____ CENTS
S-038	LUMP	LUMP SUM	SELF-SUPPORTING ROADWAY BARRIER (JEFFERSON HIGHWAY/CLEARVIEW PARKWAY INTERSECTION) _____ DOLLARS _____ CENTS
S-039	5,645.3	LINEAR FOOT	SAW-CUTTING (PORTLAND CEMENT CONCRETE PAVEMENT) _____ DOLLARS _____ CENTS
S-040	11,165.6	LINEAR FOOT	SAW-CUTTING (ASPHALTIC CONCRETE PAVEMENT) _____ DOLLARS _____ CENTS

ITEM NUMBER	APPROXIMATE QUANTITY	UNIT OF MEASURE	PAY ITEM UNIT PRICE (IN WORDS, INK OR TYPED)
S-041	1,944.3	LINEAR FOOT	CONCRETE CURB (DOWELED) _____ DOLLARS _____ CENTS
S-042	LUMP	LUMP SUM	CONCRETE BARRIER (DOWELED) _____ DOLLARS _____ CENTS
S-043	LUMP	LUMP SUM	HIGHWAY CROSSING SIGNALS _____ DOLLARS _____ CENTS
S-044	LUMP	LUMP SUM	REMOVAL OF STRUCTURES AND OBSTRUCTIONS _____ DOLLARS _____ CENTS
S-045	LUMP	LUMP SUM	REMOVAL OF MAIN BRIDGE EXISTING ROADWAY DECK AND FLOOR SYSTEM _____ DOLLARS _____ CENTS
S-046	LUMP	LUMP SUM	REMOVAL OF EASTBANK EXISTING HIGHWAY SUPERSTRUCTURE _____ DOLLARS _____ CENTS

ITEM NUMBER	APPROXIMATE QUANTITY	UNIT OF MEASURE	PAY ITEM UNIT PRICE (IN WORDS, INK OR TYPED)
S-047	LUMP	LUMP SUM	REMOVAL OF WESTBANK EXISTING HIGHWAY SUPERSTRUCTURE _____ DOLLARS _____ CENTS
S-048	LUMP	LUMP SUM	REMOVAL OF JEFFERSON HIGHWAY OVERPASSES _____ DOLLARS _____ CENTS
S-049	LUMP	LUMP SUM	REMOVAL OF EXISTING RAILROAD TOWER FOUNDATION _____ DOLLARS _____ CENTS
S-101	LUMP	LUMP SUM	CLEANING, PAINTING AND WASTE DISPOSAL/RECYCLING OF EXISTING BRIDGE METALWORK FAYING SURFACES _____ DOLLARS _____ CENTS
S-102	LUMP	LUMP SUM	DECK DRAINAGE SYSTEM _____ DOLLARS _____ CENTS
S-103	803	EACH	MODIFIED STANDARD TEMPORARY PRECAST BARRIER (15' UNIT) _____ DOLLARS _____ CENTS

ITEM NUMBER	APPROXIMATE QUANTITY	UNIT OF MEASURE	PAY ITEM UNIT PRICE (IN WORDS, INK OR TYPED)
S-104	18	EACH	VARIABLE MESSAGE SIGN UNIT _____ DOLLARS _____ CENTS
S-105	27	EACH	BARRIER MOUNTED SIGN POST _____ DOLLARS _____ CENTS
S-106	8,427.8	LINEAR FOOT	PRECAST-PRESTRESSED HIGH PERFORMANCE CONCRETE (HPC) GIRDERS (TYPE BT-78) _____ DOLLARS _____ CENTS
S-107	LUMP	LUMP SUM	TRUSS MONITORING _____ DOLLARS _____ CENTS
S-108	9,498.46	LINEAR FOOT	STEEL BARRIER RAILING _____ DOLLARS _____ CENTS
S-109	2	EACH	IMPACT ATTENUATOR (KINETIC) _____ DOLLARS _____ CENTS

ITEM NUMBER	APPROXIMATE QUANTITY	UNIT OF MEASURE	PAY ITEM UNIT PRICE (IN WORDS, INK OR TYPED)
S-110	LUMP	LUMP SUM	MAINTENANCE OF TRAFFIC _____ DOLLARS _____ CENTS
S-111	LUMP	LUMP SUM	TRAFFIC ASSISTANCE _____ DOLLARS _____ CENTS
S-112	LUMP	LUMP SUM	CONSTRUCTION SCREENING _____ DOLLARS _____ CENTS
S-113	4	EACH	WEB-ENABLED CAMERA SYSTEM _____ DOLLARS _____ CENTS
S-114	LUMP	LUMP SUM	VIBRATION MONITORING _____ DOLLARS _____ CENTS
S-115	LUMP	LUMP SUM	CONSTRUCTION SITE SURVEY _____ DOLLARS _____ CENTS

ITEM NUMBER	APPROXIMATE QUANTITY	UNIT OF MEASURE	PAY ITEM UNIT PRICE (IN WORDS, INK OR TYPED)
S-116	2	EACH	TEST DRILLED SHAFT (9-FT DIAMETER) _____ DOLLARS _____ CENTS
S-117	2	EACH	LOAD TESTING DRILLED SHAFT (9-FT DIAMETER) _____ DOLLARS _____ CENTS
S-118	11	EACH	POST GROUTING DRILLED SHAFT (9-FT DIAMETER) _____ DOLLARS _____ CENTS
S-119	LUMP	LUMP SUM	GROUNDWATER MONITORING _____ DOLLARS _____ CENTS
S-120	3	EACH	BACKWALL MOUNTED SIGN POST _____ DOLLARS _____ CENTS
S-121	8	EACH	TOP OF BARRIER SIGN MOUNT _____ DOLLARS _____ CENTS

ITEM NUMBER	APPROXIMATE QUANTITY	UNIT OF MEASURE	PAY ITEM UNIT PRICE (IN WORDS, INK OR TYPED)
S-122	LUMP	LUMP SUM	PIER REVETMENT SYSTEMS _____ DOLLARS _____ CENTS
S-123	LUMP	LUMP SUM	STRUCTURAL METALWORK (ERECT) _____ DOLLARS _____ CENTS
S-124	LUMP	LUMP SUM	DRY STANDPIPE FOR FIRE PROTECTION _____ DOLLARS _____ CENTS
S-125	LUMP	LUMP SUM	SOIL BORINGS _____ DOLLARS _____ CENTS
S-126	LUMP	LUMP SUM	REMOVAL OF TRUSS MONITORING SYSTEM _____ DOLLARS _____ CENTS
S-201	435	LIN. FOOT	SEWER FORCE MAIN (10" HDPE) _____ DOLLARS _____ CENTS

ITEM NUMBER	APPROXIMATE QUANTITY	UNIT OF MEASURE	PAY ITEM UNIT PRICE (IN WORDS, INK OR TYPED)
S-202	1,575	LIN. FOOT	SEWER FORCE MAIN (16" HDPE) _____ DOLLARS _____ CENTS
S-203	7	EACH	SEWER MANHOLE (DIA. 4')(DEPTH: UNDER 10'-1") _____ DOLLARS _____ CENTS
S-204	13	EACH	SEWER MANHOLE (DIA. 4')(DEPTH: 10'-1" TO 12'-0") _____ DOLLARS _____ CENTS
S-205	8	EACH	SEWER MANHOLE (DIA. 4')(DEPTH: OVER 12'-0") _____ DOLLARS _____ CENTS
S-206	4	EACH	SEWER MANHOLE TO BE RAISED _____ DOLLARS _____ CENTS
S-207	27	EACH	REMOVAL OF SEWER MANHOLES _____ DOLLARS _____ CENTS

ITEM NUMBER	APPROXIMATE QUANTITY	UNIT OF MEASURE	PAY ITEM UNIT PRICE (IN WORDS, INK OR TYPED)
S-208	1	EACH	AIR RELEASE VALVE AND FRP MANHOLE _____ DOLLARS _____ CENTS
S-209	LUMP	LUMP SUM	NEW SEWER LIFT STATION _____ DOLLARS _____ CENTS
S-210	LUMP	LUMP SUM	REMOVAL OF OLD LIFT STATION _____ DOLLARS _____ CENTS
S-211	1,000	SQUARE YARD	REMOVE AND REPLACE CONCRETE ROADWAY, SIDEWALK AND DRIVEWAY _____ DOLLARS _____ CENTS
S-212	LUMP	LUMP SUM	VERIFICATION OF EXISTING UTILITIES _____ DOLLARS _____ CENTS
S-213	1	EACH	SEWER FORCE MAIN TIE-IN (16" HDPE) _____ DOLLARS _____ CENTS

ITEM NUMBER	APPROXIMATE QUANTITY	UNIT OF MEASURE	PAY ITEM UNIT PRICE (IN WORDS, INK OR TYPED)
S-214	1	EACH	SEWER FORCE MAIN TIE-IN (10" HDPE) _____ DOLLARS _____ CENTS
S-215	LUMP	LUMP SUM	CONCRETE CONFLICT BOX _____ DOLLARS _____ CENTS
S-301	17.8	TON	PIPE FITTINGS (DUCTILE IRON BENDS, TEES, WYES, ETC) _____ DOLLARS _____ CENTS
S-302	15,129	LINEAR FOOT	REMOVAL OF WATER LINE WITH FITTINGS _____ DOLLARS _____ CENTS
S-303-A	6	EACH	JOINT RESTRAINERS (4" DUCTILE IRON) _____ DOLLARS _____ CENTS
S-303-B	78	EACH	JOINT RESTRAINERS (8" DUCTILE IRON) _____ DOLLARS _____ CENTS

ITEM NUMBER	APPROXIMATE QUANTITY	UNIT OF MEASURE	PAY ITEM UNIT PRICE (IN WORDS, INK OR TYPED)
S-303-C	6	EACH	JOINT RESTRAINERS (10" DUCTILE IRON) _____ DOLLARS _____ CENTS
S-303-D	401	EACH	JOINT RESTRAINERS (12" DUCTILE IRON) _____ DOLLARS _____ CENTS
S-303-E	134	EACH	JOINT RESTRAINERS (14" DUCTILE IRON) _____ DOLLARS _____ CENTS
S-304-A	100	LINEAR FOOT	FIRE SERVICE LINE (6" C-900) _____ DOLLARS _____ CENTS
S-304-B	170	LINEAR FOOT	FIRE SERVICE LINE (8" C-900) _____ DOLLARS _____ CENTS
S-305-A	3	EACH	FIRE SERVICE TAP (6" C-900) _____ DOLLARS _____ CENTS

ITEM NUMBER	APPROXIMATE QUANTITY	UNIT OF MEASURE	PAY ITEM UNIT PRICE (IN WORDS, INK OR TYPED)
S-305-B	6	EACH	FIRE SERVICE TAPS (8" C-900) _____ DOLLARS _____ CENTS
S-306-A	2	EACH	MECHANICAL JOINT ADAPTOR (4") _____ DOLLARS _____ CENTS
S-306-B	2	EACH	MECHANICAL JOINT ADAPTOR (6") _____ DOLLARS _____ CENTS
S-306-C	23	EACH	MECHANICAL JOINT ADAPTOR (8") _____ DOLLARS _____ CENTS
S-306-D	2	EACH	MECHANICAL JOINT ADAPTOR (10") _____ DOLLARS _____ CENTS
S-306-E	44	EACH	MECHANICAL JOINT ADAPTOR (12") _____ DOLLARS _____ CENTS

ITEM NUMBER	APPROXIMATE QUANTITY	UNIT OF MEASURE	PAY ITEM UNIT PRICE (IN WORDS, INK OR TYPED)
S-306-F	8	EACH	MECHANICAL JOINT ADAPTOR (14") _____ DOLLARS _____ CENTS
S-307	8	EACH	BOLLARDS _____ DOLLARS _____ CENTS
S-741-01-A	761	LINEAR FOOT	WATER LINE (8" HDPE) _____ DOLLARS _____ CENTS
S-741-01-B	1,025	LINEAR FOOT	WATER LINE (12" HDPE) _____ DOLLARS _____ CENTS
S-741-01-C	934	LINEAR FOOT	WATER LINE (14" HDPE) _____ DOLLARS _____ CENTS
S-741-01-D	870	LINEAR FOOT	WATER LINE (12" DUCTILE IRON) _____ DOLLARS _____ CENTS

ITEM NUMBER	APPROXIMATE QUANTITY	UNIT OF MEASURE	PAY ITEM UNIT PRICE (IN WORDS, INK OR TYPED)
S-741-01-E	80	LINEAR FOOT	WATER LINE (4" C-900) _____ DOLLARS _____ CENTS
S-741-01-F	90	LINEAR FOOT	WATER LINE (6" C-900) _____ DOLLARS _____ CENTS
S-741-01-G	3,028	LINEAR FOOT	WATER LINE (8" C-900) _____ DOLLARS _____ CENTS
S-741-01-H	60	LINEAR FOOT	WATER LINE (10" C-900) _____ DOLLARS _____ CENTS
S-741-01-I	8,629	LINEAR FOOT	WATER LINE (12" C-900) _____ DOLLARS _____ CENTS
S-741-01-J	1,107	LINEAR FOOT	WATER LINE (14" C-900) _____ DOLLARS _____ CENTS

ITEM NUMBER	APPROXIMATE QUANTITY	UNIT OF MEASURE	PAY ITEM UNIT PRICE (IN WORDS, INK OR TYPED)
S-741-01-K	115	LINEAR FOOT	WATER LINE (8" DUCTILE IRON) _____ DOLLARS _____ CENTS
S-741-01-L	332	LINEAR FOOT	WATER LINE (14" DUCTILE IRON) _____ DOLLARS _____ CENTS
S-741-02-A	1	EACH	GATE VALVE (4" W/COVER) _____ DOLLARS _____ CENTS
S-741-02-B	1	EACH	GATE VALVE (6" W/COVER) _____ DOLLARS _____ CENTS
S-741-02-C	25	EACH	GATE VALVE (8" W/COVER) _____ DOLLARS _____ CENTS
S-741-02-D	1	EACH	GATE VALVE (10" W/COVER) _____ DOLLARS _____ CENTS

ITEM NUMBER	APPROXIMATE QUANTITY	UNIT OF MEASURE	PAY ITEM UNIT PRICE (IN WORDS, INK OR TYPED)
S-741-02-E	51	EACH	GATE VALVE (12" W/COVER) _____ DOLLARS _____ CENTS
S-741-02-F	8	EACH	GATE VALVE (14" W/COVER) _____ DOLLARS _____ CENTS
S-741-03-A	7	EACH	TAPPING SLEEVE AND VALVE ASSEMBLY (UP TO 4") _____ DOLLARS _____ CENTS
S-741-03-B	10	EACH	TAPPING SLEEVE AND VALVE ASSEMBLY (6") _____ DOLLARS _____ CENTS
S-741-03-C	24	EACH	TAPPING SLEEVE AND VALVE ASSEMBLY (8") _____ DOLLARS _____ CENTS
S-741-04	44	EACH	FIRE HYDRANT _____ DOLLARS _____ CENTS

ITEM NUMBER	APPROXIMATE QUANTITY	UNIT OF MEASURE	PAY ITEM UNIT PRICE (IN WORDS, INK OR TYPED)
S-741-05-A	210	LINEAR FOOT	WATER SERVICE LINE (UP TO 4" HDPE) _____ DOLLARS _____ CENTS
S-741-05-B	300	LINEAR FOOT	WATER SERVICE LINE (6" HDPE) _____ DOLLARS _____ CENTS
S-741-05-C	120	LINEAR FOOT	WATER SERVICE LINE (8" HDPE) _____ DOLLARS _____ CENTS
S-741-13	33	EACH	REMOVING FIRE HYDRANT _____ DOLLARS _____ CENTS
S-741-15-A	30	LINEAR FOOT	CASING (24" STEEL, BORED) _____ DOLLARS _____ CENTS
S-741-15-B	30	LINEAR FOOT	CASING (30" STEEL, BORED) _____ DOLLARS _____ CENTS

ITEM NUMBER	APPROXIMATE QUANTITY	UNIT OF MEASURE	PAY ITEM UNIT PRICE (IN WORDS, INK OR TYPED)
S-742-01-A	1,031	LINEAR FOOT	SANITARY SEWER PIPE (8" PVC) (DEPTH: UNDER 10'-1") _____ DOLLARS _____ CENTS
S-742-01-B	203	LINEAR FOOT	SANITARY SEWER PIPE (10" PVC) (DEPTH: 10'-1" TO 12'-0") _____ DOLLARS _____ CENTS
S-742-01-C	223	LINEAR FOOT	SANITARY SEWER PIPE (12" PVC) (DEPTH: OVER 12'-0") _____ DOLLARS _____ CENTS
S-742-01-D	649	LINEAR FOOT	SANITARY SEWER PIPE (15" PVC) (DEPTH: 10'-1" TO 12'-0") _____ DOLLARS _____ CENTS
S-742-01-E	753	LINEAR FOOT	SANITARY SEWER PIPE (18" PVC) (DEPTH: 10'-1" TO 12'-0") _____ DOLLARS _____ CENTS
S-742-01-F	645	LINEAR FOOT	SANITARY SEWER PIPE (18" PVC) (DEPTH: OVER 12'-0") _____ DOLLARS _____ CENTS

ITEM NUMBER	APPROXIMATE QUANTITY	UNIT OF MEASURE	PAY ITEM UNIT PRICE (IN WORDS, INK OR TYPED)
S-742-01-G	22	LINEAR FOOT	SANITARY SEWER PIPE (24" PVC)(DEPTH: OVER 12'-0") _____ DOLLARS _____ CENTS
S-742-02	19	EACH	ADJUSTING SANITARY SEWER HOUSE CONNECTIONS _____ DOLLARS _____ CENTS
S-742-03	475	LIN. FOOT	ADJUSTING SANITARY SERVICE LINES _____ DOLLARS _____ CENTS
S-742-04-A	331	LIN. FOOT	CASING (24" STEEL) _____ DOLLARS _____ CENTS
S-742-04-B	331	LIN. FOOT	CASING (36" STEEL) _____ DOLLARS _____ CENTS