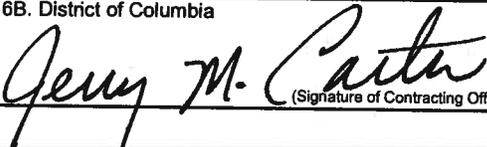


<b>AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT</b>			1. Contract Number DCKA-2011-B-0076	Page of Pages 1   69
2. Amendment/Modification Number 6 (SIX)	3. Effective Date 6/28/2011	4. Requisition/Purchase Request No.	5. Solicitation Caption Resurf. of Kst, Mt Vernon Triangle	
6. Issued By: Office of Contracting and Procurement DDOT 55M Street SE, Suite 700 Washington, DC (20003)		Code	7. Administered By (If other than line 6)	
8. Name and Address of Contractor (No. Street, city, country, state and ZIP Code)			(X) 9A. Amendment of Solicitation No. DCKA-2011-B-0076	9B. Dated (See Item 11) 7/14/2010
Code			10A. Modification of Contract/Order No.	
Facility			10B. Dated (See Item 13)	
<b>11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS</b>				
<input checked="" type="checkbox"/> The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offers <input type="checkbox"/> is extended. <input checked="" type="checkbox"/> is not extended. Offers must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended, by one of the following methods: (a) By completing Items 8 and 15, and returning <u>1</u> copies of the amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or fax which includes a reference to the solicitation and amendment number. FAILURE OF YOUR ACKNOWLEDGEMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment you desire to change an offer already submitted, such change may be made by letter or fax, provided each letter or telegram makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.				
12. Accounting and Appropriation Data (if Required)				
<b>13. THIS ITEM APPLIES ONLY TO MODIFICATIONS OF CONTRACTS/ORDERS, IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14</b>				
A. This change order is issued pursuant to: (Specify Authority) The changes set forth in Item 14 are made in the contract/order no. in item 10A.				
B. The above numbered contract/order is modified to reflect the administrative changes (such as changes in paying office, appropriation date, etc.) set forth in item 14, pursuant to the authority of 27 DCMR, Chapter 36, Section 3601.2.				
C. This supplemental agreement is entered into pursuant to authority of:				
D. Other (Specify type of modification and authority)				
E. IMPORTANT: Contractor <input type="checkbox"/> is not, <input checked="" type="checkbox"/> is required to sign this document and return <u>1</u> copies to the issuing office.				
14. Description of amendment/modification (Organized by UCF Section headings, including solicitation/contract subject matter where feasible.)				
2) Questions #3, #5, and #7 of amendment 4 has been addressed herein this amendment (See attachment #1) 3) Delete the following SP's; 18; 22; and 33 and replace with 18R; 22R; and 33R. (attachment #2) 4) Add New Special Provisions 70; 71; 72; 73; 74; 75; 76 and 77, (attachment #3) 5) Delete Schedule of Items in its entirety R-1 thru R-17 and replace with RR-1 thru RR-18, (attachment #4). <b>DRAWINGS</b> Delete pages 2;4;5;8;9;10;11;15;25;27;28;29;30;31;32;33;34;50;51;52;53;54;55;56;57;57A;57B;57C; and 87 of the Drawings and replace with 2R;4R;5R;8R;9R;10R;11R;15R;25R;27R;28R;29R;30R;31R;32R;33R;34R;50R;51R;52R;53R;54R;55R;56R;57R;57A-R;57B-R;57C-R; and 87R. (attachment #5)				
Except as provided herein, all terms and conditions of the document referenced in Item (9A or 10A) remain unchanged and in full force and effect				
15A. Name and Title of Signer (Type or print)		16A. Name of Contracting Officer Jerry M. Carter		
15B. Name of Contractor	15C. Date Signed	16B. District of Columbia	16C. Date Signed	
(Signature of person authorized to sign)			6/28/11	
		(Signature of Contracting Officer)		

DCKA-2011-B-0076 “Resurfacing of K Street, From 7<sup>th</sup> Street to New Jersey Ave.”

*ATTACHMENT 1*

Question 3 Item # 207008 Borrow Trench Backfill with 6257 CY & Item # 202002 Common Excavation with 5,548 CY seems to be very large volume for a small area. Considering that the project is a resurfacing of the area and most of the excavation & backfill happens on the utility lines, where are the locations of these borrow materials and excavation? Does this mean that the existing soils are unsuitable?

Response 3 The quantities in Items 202002 and 207008 have been revised.

Question 5 Item # 324002 PCC In-Line Thrust Block estimated quantity is 350 units. Drawing plans shows in-line thrust blocks to be not more than 30 units. Can you verify whether this quantity is correct? Two kinds of thrust blocks are shown on the drawing namely in-line thrust block and concrete thrust block. Under what pay item does the concrete thrust block be considered?

Response 5 The quantity for item 324002 has been revised, see attached revised schedule of items (attachment #4).

Question 7A The 3 shade trees to be used at the intersection of K Street & 5<sup>th</sup> Street seem to be very large. Are these trees new trees or trees that came from other location & that needs be transferred on this area? In any case where this kind of tree is not available, is there any other substitute tree we can use?

Question 7B Capitol Paving has been searching for an 8” Caliper of Cladrastis Lutea (Yellow Wood), which is specified in the bid specification, but have yet to find this size Caliper tree. The size of the existing tree on K St. & 5<sup>th</sup> St. is a Caliper between 2” – 4”. We are requesting your consideration and approval to use this same size tree instead of the proposed 8” Caliper? If you prefer not to use a 2" - 4" Caliper, is there another tree type, with the same dimensions (2" - 4"), that can be substituted for the Caliper?

Response 7A&B Please replace the 8” Caliper tree with (2”- 4”) Caliper trees.

**18R**                    **SHOP AND WORKING DRAWINGS**

This special provision supplements 105.02 B of the Standard Specifications.

The Contractor shall furnish drawings for the following: false work, temporary support systems, formwork, detour layout, fabrication and installation drawings for pre-cast items, sign panels, and other temporary work and methods of proposed construction. Furnish drawings which bear the seal and signature of a professional engineer who is licensed in the District of Columbia and who is proficient in the pertinent design field.

All shop and working drawings, material certifications, laboratory test reports, and other required submittals shall be submitted to:

Mr. Ali Shakeri – Program Manager Team 3  
District Department of Transportation  
Infrastructure Project Management Administration  
55 M Street, S.E., Suite 400  
Washington, D.C. 20003

All shop and working drawings for sewers and water mains shall be submitted to:

Chief, Utility Inspection Section  
D.C. Water and Sewer Authority  
5000 Overlook Avenue, S.W.,  
Washington, D.C. 20032

Materials certifications and laboratory test reports shall be submitted to:

Chief, Materials Development and Research Branch  
DC Department of Transportation  
55 M Street, S.E., Suite 400  
Washington, DC 20003

**22 R**                    **UTILITY PROTECTIVE ALERT:**

This S.P. supplements and modifies 107.16

Traffic Signal System Facilities – The Contractor is forewarned that the utility drawings included in this contract are not guaranteed to be an accurate representation of actual field conditions. This is particularly true in the case of underground electrical conduits and manholes constructed throughout the city between 1985 and 1991 for traffic signal system communication cable. The contract plans for this project may have limited or no information of the placement, quantity or depth beneath the finished grade of such facilities.

---

The Contractor shall contact the Traffic Signal System Division at (202) 698-3677 before undertaking any excavation within the project limits to review drawings showing the location of these underground conduits and manholes. The Contractor is further forewarned to exercise extreme care when excavating in the vicinity of such facilities, since conduit depth and degree of protection may not be accurately represented on the plans. All direct and indirect damage to these facilities encountered during excavation shall be repaired at the Contractor’s expense in accordance with the specifications of the Traffic Signal System Division. Such repairs may include conduit and manhole repairs and replacement of communications cable conduit which may extend far beyond the project limits.

The Contractor shall notify IPMA’s electrical inspector 72 hours in advance before all street light electrical construction begins and 24 hours advance notification for electrical inspections of the conduit duct bank and light pole foundations prior to concrete encasement to Mr. Antonio Byrd at [antonio.byrd@dc.gov](mailto:antonio.byrd@dc.gov) 202-359-2678.

The table listed on page 100 is modified as follows:

MPD	202-277-1183	MPD Camera
DCWASA	202-787-2443	Watermains
	202-787-2443	Sewers
	202-698-3650	Fire Alarm & Electrical System
IPMA - Antonio Byrd	202-359-2678	Street Lighting Inspection
IPMA - Abdallah Fatah	202-671-4625	Street Lighting Inspection
	202-698-3684	Traffic Signal System

### **33R DISPUTES**

Disputes will be dealt with in accordance with Section 103.1 Article 7

*Attachment 3*

**70. SAW CUTTING**

This special provision modifies and supplements 202.03 and applies to all excavation and repair/Replace Items.

CONSTRUCTION METHODS - During removal of existing roadways, sidewalks, curbs, gutters, alleys, driveways, concrete traffic barriers and wheelchair ramps, the portion to be removed shall be saw cut one-third (1/3) depth or as directed and/or approved by the Engineer, such that the existing materials can be removed to a neat line with a minimum damage to adjacent structures that are to remain in place. Any excessive damage done at these locations shall be repaired and restored by the Contractor at no cost to the District.

MEASURE AND PAYMENT - No measure and payment shall be made the cost of saw cutting shall be reflected and distributed among the various bid pay items.

**71. BORROW TRENCH BACKFILL, Item 207 008**

This Special Provision supplements 207.07

Preliminary soil investigation conducted for the project indicates the existing soil has moisture and clay content that fall outside of requirements as specified in 804.05 for use as Trench Backfill throughout the majority of the site. See the attached Soil Laboratory Testing results in the appendix. This unsuitable material is to be removed from the site per section 207.03 and replaced with Borrow Trench Backfill.

**72. TREE PIT GRAVEL AND STONE BEDDING, Item 209 003**

The Tree Pit Gravel and Stone Bedding as shown on the plans and details shall meet the grading requirements for Coarse Aggregate in Table 803.02-1 for AASHTO #7 and #57 aggregates. Measure and Payment for the Gravel and Stone Bedding shall be per Cubic Yard.

**73. SEWER MANHOLE ON SEWER 48 INCH OR LESS, Item 309 002**

This special provision supplements 309 of the Standard Specifications.

All Sewer Manholes shall be measured and paid for as Sewer Manhole on Sewer 48 inch or Less. This includes 48” Diameter Concrete Sewer Manhole, Cast in Place Sewer Manhole over Existing Pipe, Brick Sewer Manhole over Existing Pipe, and 48” Diameter Concrete Sewer Manhole with Catchment Chamber.

**74. STANDARD DOUBLE BASIN, Item 310 004**

This special provision supplements 310 of the Standard Specifications.

The Double Catch Basin without Catchment Chamber shall be paid for as Standard Double Basin.

*Attachment 3*

75. **FURNISH TEMPORARY, PORTABLE, CONCRETE BASE FOR 20 FOOT STEEL TRAFFIC SIGNAL POLE MOUNTED ON A TRANSFORMER BASE, Item 617042**

MEASURE AND PAYMENT. The unit of measure for Portable Traffic Signal Bases will be each. The total number of bases shall be the maximum number required and used in any one phase of construction. Payment will be made at the contract bid price per each. This payment shall include furnishing, maintaining (at no additional cost to the District), relocating and removal of all required Portable Traffic Signal Bases on the project.

76. **FURNISH TEMPORARY, PORTABLE, CONCRETE BASE FOR 336-S AND MODEL 336-SS TRAFFIC SIGNAL CONTROLLER CABINET, Item 617 040**

This special provision supplements 617.

**A. GENERAL**

The contractor shall furnish all labor, materials and equipment necessary to relocate traffic signal controller to temporary portable concrete base as called for in the contract documents or as directed by the Project Engineer. The temporary base of the traffic signal shall be supplied by the Contractor and meet the standard of the Traffic Signal Branch. The temporary base shall be set so as not to block pedestrian traffic. The Contractor shall relocate the traffic signal controller to the temporary base after the District Traffic Signal Technicians have disconnected all of the traffic and communications cables from the controller. The Contractor shall use care when relocating the controller and cabinet so as not to damage the existing equipment. All damage due to Contractor negligence will be repaired and or replaced by the Contractor at no cost to the District. The Contractor shall supply 50 foot coils of cable for each traffic signal and communications cable that leaves the controller. The cost of all splice kits and materials required to splice the new cables to the ends of the existing cables shall be included in this pay item.

**B. MEASURE AND PAYMENT**

The unit of measure for Furnish and Install Temporary, Portable, Concrete Base for Model 336-S Traffic Signal Cabinet shall be per each traffic signal controller relocated to base. The total number of bases will be the maximum number required and used in any one phase of construction. Payment will include all labor, equipment, tools, materials, and all incidentals to complete the relocation of the traffic signal controller and installation of controller on the furnished concrete base. Payment will also include the relocation and removal on the concrete base.

77. **STREETLIGHTING**

This S.P. revises and supplements 617 and 618

*Attachment 3*

**SCOPE: STREET LIGHTING**

1. Furnish and install conduits, manholes, streetlight, traffic signal pole, traffic signal controller foundations, pendant posts, 28’-6” Foot Steel Pendant Pole, w up to 8’ Arm, Twin 20’ Steel/Cast Iron, and #14 Cast Iron poles, luminaires, conversion kits, globes, internal house side shields, photo controls, feeder cables, cables in poles, and all necessary electrical splices. All wiring for street lighting to be continuous from Manholes to Fixtures.
2. Removal of the existing street lighting system including luminaires, photo controls, poles, transformer bases, cables, foundations, manholes and abandonment of conduits, as directed by the Engineer. **The Contractor shall maintain the level of streetlight illumination within the project limits by the use of the existing and proposed lighting poles.** There will be no direct payment to the Contractor for maintaining the lighting during construction.
3. Removal of all signs on the existing street light poles, storage and permanent reinstallation of the signs on the new street light poles or new u-posts.
4. During this contract all the streetlight and traffic signal service conduits will be replaced with new conduits. The existing street light feeder cables will be removed from the conduits.
5. The Streetlight Contractor shall construct, abandon and/or remove all below ground traffic signal conduits, foundations manholes and hand boxes
6. Contractor shall take a photograph both inside each manhole and the base of the poles to show the grounding connections. The photographs must correspond to the numbering used for the street lighting and manholes in the drawings. These photographs are not included in the Project Progress Photos, and will be incidental to the cost of the streetlighting work.
7. Other essentials necessary for the satisfactory installation of the roadway lighting system shown on the plans, whether specifically mentioned or not.

The Potomac Electric Power Company currently supplies power to the existing streetlight system from its manholes. PEPCO will supply the power to the permanent roadway lighting system. The Contractor shall install the new feeder cables into PEPCO’s facilities, under PEPCO’s supervision and inspection.

The contractor shall cut, when required, the existing D.C. cables for new connections in PEPCO owned manholes. PEPCO owns the service tap onto their electrical system. D.C. owns the cable after the service tap to the street light(s).

*Attachment 3*

All new service taps onto PEPCO’s electrical distribution system will be performed by PEPCO Forces.

**REQUIREMENTS:**

**(A) GENERAL**

All work performed under this contract shall conform to the National Electrical Code (NEC), District of Columbia Electrical Code, District of Columbia Standard Specifications (blue book 2005 revised 2007), Streetlight Electrical Specifications and District of Columbia Streetlight Policy and Design Guideline (March 2005).

Before any electrical work is performed, the electrical Contractor must be licensed and bonded in the District of Columbia and must apply for an electrical permit to perform electrical work in public space. An electrical permit may be obtained by contacting Public Space Permit Office located on the 2<sup>nd</sup> Floor, 1100 4<sup>th</sup> Street Washington, D.C. 20024 Mr. Thomas Fulton (202) 478-9193. This application must be signed by a Master Electrician or Electrical Engineer who is required to be licensed in the District of Columbia.

The Contractor’s employees installing the electrical work must be licensed in the District of Columbia as a Master Electrician, Electrician or Apprentice Electrician. When Apprentice Electricians are working, a Master Electrician or an Electrician must be on the project site for personal supervision.

The Contractor shall have a copy of the drawings, Electrical Permit and all approved Catalog Cuts on the job at all times when electrical work is being performed.

All electrical work must be inspected by the electrical inspectors of the District Department of Transportation. Forty-Eight (48) hour advance notice is required for inspection.

Violation of any electrical code, the Special Provision, Standard Specifications for Highways and Structures (2009, supplemental 2007) or any other requirements will cause the work to be STOPPED IMMEDIATELY.

The Contractor is put on notice that long lead time is required to obtain the streetlight posts from the manufacturers, and that the Contractor shall not be given additional time for completion of the project.

The Potomac Electric Power Company (PEPCO) will furnish power for the street lighting systems. All work involved with PEPCO facilities shall be performed in conformance with the PEPCO requirements. The Contractor

*Attachment 3*

shall install the new feeder cables into PEPCO’s facilities, under PEPCO’s supervision and inspection.

It shall be the Contractor’s responsibility to notify and coordinate with PEPCO throughout the construction of the project in connection with all PEPCO services and facilities in the construction area, such that removal and restoration of services can be done in a timely and orderly manner at all times. Construction delays as a result of inadequate coordination shall be the Contractor’s responsibility.

It should be noted that the D.C. electrical system is unfused, unprotected with no disconnecting means other than cutting the cable from the feed source.

The Contractor shall be expected to perform electrical work on D.C. cables with the knowledge that the circuits are energized.

The Contractor is here by notify that there could be remote relays located within the project limits, if one is found the Contractor shall notify DDOT.

The Contractor is hereby put on notice that he will be responsible for maintaining the streetlights within the limits of the project from the Notice to Proceed until final acceptance by the District. This shall include all streetlight outages and pole knockdowns. All streetlight outages shall be repaired within 24 hours of being notified by the Project Engineer.

Material removed from service, as part of this project shall be returned to the District of Columbia, Department of Transportation Warehouse, located at 1735 15th Street, N.E., Washington, D.C. as directed by the Project Engineer. All poles and/or parts returned to the District shall be disassembled and stacked/shelved at the warehouse under DC-DOT warehouse personals direction and supervision. All HPS cut-off type luminaires shall be tested, proved functional, in good reusable condition, then they will be wrapped in bubble wrap, boxed, sealed, the boxes marked with the date, size, voltage and shelved at the warehouse under DC-DOT warehouse personals direction and supervision. All other material not returned to the District shall become the Contractor’s property and be disposed of at no additional cost to the District.

The Contractor upon completion of the project shall submit a complete set of as-built drawings of the streetlight portion of the project to DDOT.

The as-built drawings shall include Maryland Grid indication to show pole and manhole locations. Manholes and poles shall be assigned with a Grid Number, which is consistent with the DC Street Lighting Numbering System. The set of drawings shall bear the signature of an officer of the Contractor’s organization, certifying compliance with as-built conditions.

*Attachment 3*

The contractor shall coordinate the installation and removal of streetlights with the DDOT and must submit a schedule for the removal and installation of street light poles for prior approval to the commencement of this project. The approval of this schedule will have a direct bearing on the notice to proceed for the contract. The schedule must include where an existing street light pole is replaced in the same location

The above schedule must reflect the dates for each streetlight replaced under this contract. The following information must be supplied by the Contractor before starting to work:

1. Removal date of each street light pole & fixture (putting it out of service)
2. The date of the complete operational installation of the street light pole & fixture.
3. The time between the removal date & complete operational installation must not exceed 8 calendar days for any underground fed light.

**(B) PEPCO SERVICE**

The Contractor shall coordinate with PEPCO for the following:

1. Payment to PEPCO for manhole entry before any entry into their manholes.
2. Payment to PEPCO for any PEPCO forces work (SLF - Work Orders)
3. To have each “PEPCO MANHOLE” inspected by PEPCO forces and the Electrical Contractor on this contract for safety, clearing of the cables racked on the walls, spotting of the wall for new conduit penetrations and the knowledge of the location of each feed manhole for the street lights.
4. Calling PEPCO when it is necessary for PEPCO Forces to make the taps into their Electrical System to energize the street lighting and signal systems
5. Calling PEPCO for the final inspection of their manholes after all electrical work is complete in the PEPCO manholes as called for in this contract.

All work performed within PEPCO facilities shall be performed in conformance with all PEPCO requirements. The Contractor shall initiate communication with PEPCO as early as possible after execution of this contract for the purpose of establishing scheduling guidelines and to exchange telephone numbers between the principal points of contract. The power company representative is:

**Mr. Joseph D. Schall, Manager  
Customer Design-DC**

*Attachment 3*

**Potomac Electric Power Company**  
**701 9<sup>th</sup> Street, N.W., Room 6005**  
**Washington, D.C. 20068**  
**Telephone Number: (202) 872-2844**  
**Facsimile: (202) 331-6234**  
**e-mail: jdschall@pepco.com**

**(C) MATERIAL AND WORK PROCEDURES**

Unless otherwise noted in the plans and this special provision, the Contractor shall be responsible for furnishing all proposed materials associated with the electrical work.

The Contractor shall be responsible for submitting to the Infrastructure Project Management Administration (IPMA) catalog cuts and/or samples of all materials to be furnished for street lighting work. Procurement of all such materials by the Contractor may not begin until written approval is obtained from the (IPMA).

**1. PAVEMENT RESTORATION**

As directed by the Engineer for temporary pavement restoration, the trench shall be backfilled to the bottom of the existing pavement surface. The Contractor shall apply a temporary patch over the backfill until such time as final restoration can be completed.

**2. CONCRETE ENCASEMENT**

PCC mix design for encased conduits shall conform 817.03 for Class F General Use, minimum 28-day compressive strength of 3,500 psi on field test cylinders made in the field and cured in laboratory. All conduits shall be encased to provide a 4 inch minimum cover all around the conduit.

If existing utilities or conduits are present in the trench, these utilities or conduits shall be surrounded with an encasement of at least 3 inches of sandy fill, free from objects, which might damage the conduit. PCC encasement shall then be placed over the sand encasement to the appropriate level.

**3. CONDUITS**

Conduits shall conform to the requirements of this Special Provisions, streetlight electrical specifications and DDOT Standard Specifications for Highways and Structures (2009, supplemental 2007). Two (2) sizes of conduits will be used in this project. Four-inch conduit shall be installed between manholes. Two-inch conduit is for the connection from the manhole to each streetlight pole. All conduits shall be rigid, gray Polyvinyl Chloride (PVC) Schedule 40 conforming to the requirements of NEMA TC-2 and WC-

*Attachment 3*

1094. Conduits and fittings shall bear Underwriter’s Laboratories, Inc. label. Conduits shall be in factory-supplied lengths, and shall be marked with the manufacturer’s name, trade name, or trademark, nominal trade size, and type of material. All joints shall be water-tight. Solvent cement used for joining PVC conduit shall conform to the requirements of ASTM D2564.

All bends shall be of long sweep, free of kinks and of such easy curvature as to permit cable pulling without undue tension on conductors or damage to insulation.

Conduit runs as shown on the plans may be changed to avoid underground obstructions only with written approval by the Engineer.

Unless otherwise shown, conduits shall be placed a minimum depth of 36 inches below final grade, or at greater depths if required to obtain the necessary utility clearance, and shall slope at a minimum rate of 3 inches per 100 feet of length to a foundation, or manhole.

All conduit fittings shall be free from burrs and rough places and all conduit runs shall be cleaned and swabbed before cables are installed. Cut conduits shall be reamed before fittings and cables are installed.

Standard manufactured elbows, bushings, reducers, bends couplings, etc. of the same materials as the straight conduit pipe shall be used, as required throughout the conduit system. Bends shall meet all the requirements of NEC Article 352-24.

There will be instances throughout this project where the Contractor will be required to build conduit to intercept existing PEPCO manholes. In such instances, the Contractor shall be required to coordinate penetration of existing manholes with the Potomac Electric Power Company so as to avoid disruption to PEPCO facilities.

#### **4. MANHOLES AND HAND BOXES**

Manholes and hand boxes shall conform to the requirements of the Contract Drawings and these Special Provisions.

Manholes and hand boxes at locations shown in contract plans shall be constructed as detailed in the Contract Drawings. Manholes and hand boxes can be pre-cast or cast-in-place and shall comply with the following requirements:

- (1) PCC Mix Design - Shall conform to 817.03 for Class B, structural, minimum 28-day compressive strength of 4,500 psi on field test cylinders made in the field and cured in the laboratory.
- (2) Curing Material - Shall conform to 814.03 for Membrane Cure.

*Attachment 3*

- (3) Reinforcing Steel - Shall conform to 812.02 of the Standard Specifications, for Grade 60.
- (4) Frame and Covers - Shall be gray iron casting conforming to the requirements of 815.04 of the Standard Specifications. The word "DCSL- TS" in 1-inch letters shall be cast in the center depression of the top of cover and shall be flush with the surface of cover.
- (5) Pre-cast Reinforced Concrete - Shall meet the requirements of 822.04 of the Standard Specifications.
- (6) Cable racks shall be PVC with cable insulators.

Manholes and hand boxes shall be installed flush with ground, pavement or sidewalk. The drain hole shall be filled with aggregate conforming to the requirements of 803.02, Grading No. 67.

Conduit entering manholes shall be terminated flush with the inside wall. Conduits shall be aligned in as nearly a straight line as possible to allow for ease of pulling cable. The space remaining between the conduit and the structure wall shall be filled or patched with concrete or acceptable equal so there will be no leakage. Manholes shall be seated on trench fill meeting the requirements of 804.05 in order to prevent settlement.

**5. PCC FOUNDATIONS FOR STREETLIGHT AND 20' TRAFFIC SIGNAL POLES**

The item of work shall consist of constructing concrete foundations complete with necessary electrical conduit, anchor bolts, ground rod, and other work as required in the plans. All foundations to be constructed under this contract shall be fifteen- inch (15") bolt circle.

The materials for reinforced Portland Cement foundations shall meet the following requirements:

- (1) PCC Mix Design - Shall conform 817.03 for Class B,
- (2) Curing Materials - Shall conform 814.03 for Membrane Cure.
- (3) Reinforcing Steel - Shall conform 812.02 of the Standard Specifications, for Grade 60.
- (4) Anchor Bolts - Shall conform 822.06(B) of the Standard Specifications for High-Strength Bolts.
- (5) Conduit - Sleeves shall conform to the Conduit Section of this S.P.
- (6) Galvanizing - Shall conform to 811.07 of the Standard Specifications.

*Attachment 3*

- (7) Ground Rods - Shall be copper-clad rods conforming to the requirements of UL-467. Ground rods shall have a diameter of at least 3/4 inch and a length of at least 15 feet with minimum 8 feet of soil contact.
- (8) Ground Wires - Shall be No. 8 AWG for streetlight conforming to the requirements of ASTM B2.
- (9) Ground Clamps - Shall be heavy-duty bronze or brass or galvanized malleable iron conforming to the requirements of ASTM A220, any grade.

The exposed portions shall be formed to present a neat appearance. The bottom of concrete foundation shall rest on firm undisturbed ground.

Forms shall be true to line and grade. Conduit ends and anchor bolts shall be placed in proper position and to proper height, and shall be held in place by means of a template until the concrete sets.

Conduit ends shall extend a minimum of 2 inches and a maximum of 4 inches above the top of the finished foundation.

It shall be the responsibility of the Contractor to ensure that all anchor bolts, ground rods, conduits, and other appurtenances are properly located before concrete is poured.

## **6. CABLES**

Replace 820.11 with the following

All underground current carrying conductors used for street lighting, shall be copper, stranded type, RHW-2, 90 C, conforming to IPCA Pub. No. S-68-516/NEMA WC8 for ethylene-propylene-rubber insulated cable. The outside jacket shall conform to IPCA Pub. No. S-19-81.

## **7. SPLICES**

Splices in wires and cables shall be accomplished by means of compression pressure connections. The connectors shall be suitable for the size wire used and shall be of one-piece tubular tinned copper or bolted type copper construction. The indenture shall be such as to assure maximum electrical connection and sufficient physical strength. The connection shall be covered with cross-linked polyoltin shrinkable tubing. The tubing shall be heavy wall rated 600 V 90C and conform to UL 486D, CSA C22.2 No. 198.2 and ANSI C119.1 and Western Underground Guides 2.4, 2.5. If shrinkable tubing is not feasible for a particular connection, the connection shall be covered with Super 88 Scotch plastic electric tape manufactured by Minnesota Mining and Manufacturing Company, or type CW as manufactured by Plymouth

*Attachment 3*

Manufacturing Company, or other approved equal half-lapped into a thickness not less than 50 percent greater than the conductor insulation. An approved waterproof coating shall be applied on the outer cover. Wires shall be tagged as specified in 621.13

## **8. GROUNDING AND BONDING**

One copper-clad ground rod shall be installed in each manhole, streetlight and traffic signal foundation. The grounding electrode conductor shall be sized in accordance with the National Electric Code. The ground wire shall be installed with other conductors when they were pulled. Grounding shall be accomplished as soon as materials are in place to which the grounding wires are to be attached.

Material used for installation of grounding systems shall meet the following requirements:

- (1) Ground Rods - Shall be copper-clad rods conforming to the requirements of UL - 467. Ground rods shall have a diameter of at least 3/4 inches and a length of at least 15 feet, (10' for use in grounding manholes), (or minimum soil contact of 8').
- (2) Ground Wires - Shall be at least No. 8 AWG for streetlight grounding and #6 solid bare copper wire for traffic signals
- (3) Ground Clamps - Shall be heavy-duty bronze, brass or galvanized malleable iron conforming to the requirements of ASTM A220, any grade.
- (4) All manhole grounding connections including frame and cover and ground rod connections shall be made using exothermic welding.

The Contractor shall in each District owned manhole bond the neutral conductor and the system ground wire to the manhole grounding electrode. Each metal streetlight pole shall be grounded to the adjacent manhole with a #8 stranded copper wire, which shall be connected to the post shaft and the manhole grounding buss with a solderless bolted post or lug, with non-corrosive components.

## **9. MH TEAR DROP LUMINAIRE SPECIFICATIONS**

Roadway luminaire shall be a 250 watt MH Tear drop luminaire with IES type III cutoff optics. It shall be heavy cast aluminum with cast aluminum top to support the electrical components and provide a solid mounting assembly for the arm fitter. Top and middle sections are hinged together for easy installation and maintenance with 5/16-18 stainless steel toggle eyebolts with cast-iron wing-nut fasteners.

*Attachment 3*

Globe doorframe shall be one-piece aluminum casting, is hinged and retains the globe. All latches and fasteners shall be stainless steel. The globe shall be Acrylic clear globe. Secured to the doorframe with three stainless steel screws and chips. Gasketing shall be silicone sponge gasket providing a bug-tight-seal.

OPTICS: Reflector is polished, etched and anodized clear semi-specular hydroformed aluminum, mounted to housing cast frame with key slots and stainless steel screws.

The ballast assembly shall be mounted to a cast aluminum plate, which mounts to the housing with self-contained stainless steel screws for easy removal galvanized steel handle allows for easy removal of entire lamp and ballast from housing. All electrical components shall have quick disconnects.

Mounting Systems - Shall consist of a heavy duty cast neck integral to the fixture casting, installation is completed by affixing the removable half collar clamp around the cast neck with stainless steel allen socket head screws. Allows for a full 360° fixture rotation and can be locked in one orientation. Rigid mounting consists of an integral 1-1/2 11.5 NPSM stainless steel pipe permanently attached to the fixture casting for insertion into matching 8 threads on arms of the pole.

The interior components in the luminaire shall be arranged to provide ample space for cables and access to wiring. Cables shall not be closed to the ballast and shall be color-coded. The starter shall be placed in an open location for easy access and removal without the use of tools.

The lamp socket shall be heavy-duty, adjustable, with nickel-plated tempered brass split-shell lamp grips and free-floating, spring-loaded center contact.

**10. NOT USED**

**11. LAMPS**

Shall meet the requirements of 820.03 (B) 1.b and the ballast shall be a 120/208/240/277 volt Auto regulator type, capable of starting and operating all 175 W and 250 W Metal Halide lamps within the limits specified by the lamp manufacture.

**12. ELECTRONIC PHOTOCONTROL AND CYCLE DETECTION DEVICE**

Shall meet the requirements of 820.03 (B) 1.g

**13. ELECTRONIC BUTTON TYPE PHOTO CONTROL**

Shall meet the requirements of 820.03 (B) 1.h

*Attachment 3*

**14. #14 CAST IRON POST**

The post shall be made up of three cast components. All cast iron components, regardless of the method by which they are produced and assembled, shall be uniform quality and appearance; true to pattern; fine surface texture; free from blow holes, porous spots, hard spots, shrinkage faults, wrap, buckle, cracks, die marks, and all other defects peculiar to the method of production used, which may adversely affect the use, appearance or strength of the component or post.

Each component shall be carefully and thoroughly cleaned of all sand, scale, fins, core anchors, welds, machine markings, projections, imperfections, etc., injurious to insulated electrical conductors or detrimental to its use or appearance.

Each separable component shall bear as pertinent a lot number, casting number, pattern number, or other identifying number for record purposes so that the production history may be traced and contractor shall make such history available to the District of Columbia on demand. The components shall not bear any other mark, lettering, numbering or identifying device not specifically authorized in writing by the District of Columbia.

All ornamentation and markings shall be sharp and clearly defined. The desired finish for these components shall be the finest surface of hi-grade fabrication with a minimum of grinding, machining, dressing, etc., in accordance with normal foundry practices. Excess dressing shall be cause for rejection. Bolt holes must be clean and true with good alignment in the companion pieces to permit the interchangeability of castings. The shafts shall be straight and true with not more than 3/8" deflection along the length when rotated on the end centers. The base shall be drilled so that it can be installed on a fifteen-inch (15") bolt circle foundation. With each pole supplied the manufacturer shall supply an extra base door.

The castings shall be Heavy Wall Cast Iron per A.S.T.M. A48-83 Class 30. All castings shall be true to pattern and of fine surface texture with a minimum of machining and/or grinding, and shall have a uniform wall thickness +/- 1/8". All components shall receive a coat of iron oxide red both inside and out. The components shall be given two coats of a two- part epoxy paint system. The color shall be black and match Federal Color Chip # 27038. The coats shall be allowed to cure according the paint manufacturers specification before recoating and/or shipping. The components shall be wrapped and crated to protect them during shipping and unloading. Any damage to the finish shall be repaired according to the paint manufacturer specifications at no additional cost to the District.

**15. GLOBE**

*Attachment 3*

Shall meet the requirements of 820.03 (B) 1.k

**16. SPECIFICATION FOR BLACK STEEL TRANSFORMER BASE**

The transformer base will have dimensions as detailed on Streetlight Detail sheets that are part of the Contract Documents. The base will be fabricated from hot rolled carbon steel meeting ASTM-A36. The base shall be 20 inches high, 16 inches square at the base and 13 inches square at the top. The top and bottom plates will be made of 3/4" minimum thick steel plate. The body of the base will be made of 7 gauge steel. The base will be provided with 4 (four) loose steel plate anchor clips to fasten the base to the anchor bolts. Each base will be provided with 1" x 3" bolts with nuts and washers to connect the post shaft to the base. The door opening in the base shall be 8 1/2" x 9" x 13 1/4" and the door shall be secured in place by an approved locking device. The top of the door shall have a full length piano type hinge that connects the door to the base. The base will be cleaned of all rolled-in mill scale, impurities and nonmetallic foreign materials. The welds will be cleaned of all weld flux. The base is to be degreased by immersion in a heated caustic solution, then pickled in a heated sulfuric acid solution. The base will then be rinsed in a fresh water bath to remove any residual effects of the caustic or acid baths. The base will then be immersed in a concentrated zinc ammonium chloride solution and allowed to air dry before being galvanized. The base, door and anchor clips are to be hot-dip galvanized to the requirements of either ASTM A123 or ASTM A153.

All galvanized exterior surfaces visually exposed are to be coated with a Urethane or Triglycidyl isocyanurate (TGIC) polyester powder to a minimum dry film thickness of 2.0 mils. Prior to application, the surfaces to be powder coated are to be mechanically etched by brush blasting (ref. S.P.-SP7) and the zinc coated substrate preheated to 450 F for a minimum of one (1) hour in a gas-fired convection oven. The coating shall be electrostatically applied and cured by elevating the zinc coated substrate temperature to a minimum of 350 F in a gas-fired convection oven. The color shall be black and match Federal Color Chip # 27038.

The shaft shall either be wrapped in a 3/16" U.V. inhibited plastic backed packing foam or cradled in a 1" rubberized foam base.

**17. STEEL PENDANT LIGHT POLE, ARM AND DECORATIVE SHROUD**

The post will be octaflute monotube 11 gauge steel, 8" x 4" x 28' 6" with a continuous 0.14 inches per foot taper. The post will be according to pole drawing found on the ELECTRICAL DETAIL sheet as part of the Contract Drawings.

*Attachment 3*

The post will include a single welded simplex to accommodate 3 to 8 foot single member arm. The arm shall match the one shown in the Contract Drawings

The shaft will be fabricated from 11 gauge steel meeting ASTM-A595 GR A with a yield point of no less than 55,000 psi. A cast steel anchor base will be welded to the bottom of the shaft in an escalloped pattern. The base will have four (4) bolt holes per the drawing. The base will be complete with ornamental bolt covers and the attaching screws. All posts will have a strain cable grip installed to support the post cables.

The arms will be fabricated from steel. The post and arm will be cleaned of all rolled-in mill scale, impurities and nonmetallic foreign materials. The welds will be cleaned of all weld flux. The post and arm to be degreased by immersion in a heated caustic solution, then pickled in a heated sulfuric acid solution. The base will then be rinsed in a fresh water bath to remove any residual effects of the caustic or acid baths. The post and arm will then be immersed in a concentrated zinc ammonium chloride solution and allowed to air dry before being galvanized. The post and arm are to be hot-dip galvanized to the requirements of either ASTM A123 or ASTM A153. The galvanized coating will be free of any debris or flux ash.

All galvanized exterior surfaces visually exposed are to be coated with a Urethane or Triglycidyl Isocyanurate (TGIC) polyester powder to a minimum dry film thickness of 2.0 mils. Prior to application, the surfaces to be powder coated are to be mechanically etched by brush blasting (ref. SSPC-SP7) and the zinc coated substrates preheated to 232°C (450° F) for a minimum of one (1) hour in a gas-fired convection oven. The coating will be electrostatically applied and cured by elevating the zinc coated substrate temperature to a minimum of 177°C (350°F) in a gas-fired convection oven. The color shall be black and match Federal Color Chip # 27038.

The pole will be wrapped in either a 3/16" U.V. inhibited plastic backed packing foam or cradled in a 1" rubberized foam base. The arms will be wrapped in a 3/16" U.V. inhibited plastic packed packing foam.

As part of the catalog cuts, the contractor shall submit copies of the following certifications:

- (1) That the welds meet the requirements of AWS D1.1.
- (2) Material will be provided for all ASTM number referred to in this specification.
- (3) Copy of factory certification that it meets the requirement of American Institute of Steel Construction (AISC) category.

*Attachment 3*

The decorative shroud assembly shall be a combination of two rotomolded halves, steel mounting bracket, foam inserts, stainless steel and black oxide hardware. The shroud shall have a height of 3' 8 1/2" and be available for use with both single and twin cross arms.

The two molded parts are to be produced from LLDPE resin and have long term UV8 stabilization. The parts shall include raised shiplap to prevent a visual gap and misalignment between the two parts when the unit is assembled and to ensure a proper fit. Recessed and bossed locations are necessary where the mating hardware is to be installed. Threaded inserts shall be molded into to one side of the shroud to allow stainless steel hardware to secure the two halves together. Banding the two halves together will not be permitted.

Closed cell foam inserts shall be supplied on the shroud where the post enters the shroud and where the cross arm exit the shroud. This foam will prevent creatures and debris from entering the molded shroud.

All molded parts shall be free from abnormal physical qualities, porosity, cracks, shrinkage defects or flaws which may affect the strength, of suitability of the parts for their intended use.

The steel mounting bracket shall be supplied as one unit to fix the mounting locations on the cross arm for ease of installation. The 1/4-20 stainless steel hardware shall be used to secure the galvanized bracket together, secure the bracket to the post, and set the height of the shroud to allow the cross arm to be centered in the decorative shroud. The decorative shroud shall be attached to the mounting bracket with the 1/2" threaded rod and secured with a black oxide furnished acorn nut.

The Contract drawing of the decorative shroud are to be used as a standard of quality and dimensional requirements. Deviating from these dimensions will not be permitted.

### **18. UNIVERSAL HOUSE SIDE SHIELD**

The house side shield shall consist of a formed aluminum bracket, a specular alzak shield, a spring action holder and an optional spun aluminum reflector. The shield shall accommodate all lamp shapes up to 400-watt high-pressure sodium and fit into a standard acorn globe with a 9 inch formed neck. The overall height of the unit shall be 10-3/8 inches in height and 8-1/8 inches in diameter.

The house side shield shall prevent the majority of light from trespassing behind the light standard. The shield shall be available with an optional upper reflector to prevent excess lumens above 90 degrees vertical. Depending on the application the upper dome can be removed in the field to

*Attachment 3*

illuminate or accent trees. The specular alzak shield shall be available in two sizes, which are either a 90-degree shield or a 180-degree shield depending on the application.

The entire unit shall be assembled using 10-24 stainless steel fasteners for ease of replacement or removal of the component parts. The spring action holder shall be powder-coated black and have to ability to secure to both medium and mogul socket.

**19. ELECTRICAL TESTS**

Applicable test shall be performed in accordance with 621.16. Defects in materials or workmanship in the installation as disclosed by the test shall be corrected or replaced by the Contractor without additional compensation. A written report shall be submitted for approval. ALL GROUND RODS WILL BE TESTED PER DDOT SPECIFICATIONS.

**(D) PAY ITEMS**

**1. FURNISH AND INSTALL SCHEDULE 40 PVC RIGID CONDUIT:**  
**ITEMS: 617 014, 617 030, 617 032, 617 034, 618 160**

This S.P. Replaces 618.12

GENERAL- The Contractor shall furnish all labor, tools, material and equipment necessary to excavate, shoring, de-watering, steel plating (necessary steel plating of the roadway for moving traffic as directed by the Engineer), installation of conduit(s), concrete encasement P.C.C. Wet Mix 3,500 PSI), back filling, compaction of fill, temporary patch and maintenance of the cuts until the permanent repairs are made as directed by the Engineer. The Contractor shall excavate the trench as called for on the project plans. The trenches shall be braced according to the local and federal regulations. All conduit(s) shall be Schedule 40 PVC and shall be installed to proper line and grade. The trench shall be opened completely between manholes or between the end of the existing conduit to be added to the new location or between manholes and the proposed light before installing any conduit. Conduit(s) shall be installed with a minimum of 36" of cover below final grade and shall be installed in dry trenches. The conduit shall be installed in full lengths using manufactures supplied bends and couplings. When the Contractor must make field cuts the conduit ends shall be reamed to remove any rough edges before joining together. The joints shall be cleaned, cemented and the lengths of the conduits coupled together tightly. Where two or more conduits are being installed in the same trench the Contractor shall use spacers between the conduit runs. All conduit runs shall be complete and points of penetration of the wall of manholes be sealed before any concrete encasement is installed.

*Attachment 3*

The wall penetration of PEPCO manholes will be done under the supervision and direction of PEPCO field personal. The penetration of D.C. manholes will be done under the supervision and direction of District personal. At the end of each workday the Contractor shall seal the ends of the all conduits to prevent the entrance of dirt and water into the conduit system. After the concrete encasement has been installed and allowed to set a minimum of four (4) hours or as directed by the Project Engineer, all wood forms and trench shoring shall be removed completely during the back filling operations, back fill will be done in layers of six (6) inches and compacted before the next layer is added.

If the Contractor is to add on to (splice on to) existing conduit, the splice will be done with an approved coupling. The Contractor shall in part of this Pay Item clean, proof, install a Poly String and seal all conduits prior to installing cables. The Contractor shall run a mandrel, not smaller than ¼” smaller than the diameter of the conduit thru each conduit in the presence of the Engineer. All conduits that a mandrel cannot be pulled thru shall be cleaned and or replaced and shall be reproofed at no additional cost to the District. Each conduit shall be sealed after the copper drag wire has been installed, using approved conduit plugs. Included within this pay item is the temporary patching of the trench and maintenance of the patch until final repairs have been made.

MEASURE AND PAYMENT - The unit of measure of FURNISH AND INSTALL SCHEDULE 40 PVC RIGID CONDUIT will be per LINEAR FOOT. Payment will include all labor, tools, materials, equipment, excavate, shoring, de-watering, steel plating of roadway, concrete encasement, penetration of manholes (both D.C.’S & PEPCO’S), back filling, compaction of fill, temporary patching, maintenance of the cut until the permanent repairs are made, and all incidentals necessary to complete the work specified herein.

**2. FURNISH AND INSTALL 36”x36”x36”MANHOLE: ITEMS: 618 016**

Work under this Pay Item shall meet the requirements of 618.05

**3. FURNISH AND INSTALL 48’x48”x48”MANHOLE: ITEMS: 618 022**

Work under this Pay Item shall meet the requirements of 618.05

**4. FURNISH AND INSTALL PCC FOUNDATION FOR TRAFFIC SIGNAL POLE AND FURNISH AND INSTALL STREET LIGHT FOUNDATION, ANY TYPE: ITEMS 617 008 and 618 398**

This S.P. Replaces 618.25

GENERAL- The Contractor shall supply all labor, equipment and materials necessary to install streetlight post foundations as shown on the plans. The foundations shall be installed 36 inches from the face of curb to centerline of foundation or as noted on the plans. A 1 ½” conduit shall be installed through the foundation for the installation of the ground rod. The ground rod, ground

*Attachment 3*

wire, ground clamps, power feeder cables within the foundation shall be included in the cost for this pay item. The anchor bolts shall be set to the correct bolt circle and project 3” above the foundation. The conduit for the electrical conductors shall be set as close to the center of the foundation as possible. All foundation caps shall set 1” above grade, the foundation shall be allowed to set for a minimum of 3 days before installing the post. All dirt excavated and other debris shall become the property of the Contractor and shall be disposed of by him at no additional cost to the District.

MEASURE AND PAYMENT – The unit of measure of **FURNISH AND INSTALL PCC FOUNDATION FOR TRAFFIC SIGNAL POLE AND FURNISH AND INSTALL 15” B C STREETLIGHT FOUNDATION** will be per EACH. Payment will be made at the contract unit price per each foundation and payment will include all labor, equipment, tools, materials, and all incidentals necessary to complete.

**5. FURNISH AND INSTALL SPECIAL SPREAD FOUNDATION FOR STREETLIGHT AND TRAFFIC SIGNAL POLE, Item 618 399**

GENERAL- The Contractor shall supply all labor, equipment and materials necessary to install special spread foundation for streetlight and traffic signal post as shown on the plans. This foundation shall be installed in locations where a standard foundation cannot be installed because of an existing underground utility. The foundations shall be installed 36 inches from the face of curb to centerline of foundation or as directed by the Engineer. The anchor bolts shall be set to the correct bolt circle and project 3” above the foundation. The conduit for the electrical conductors shall be set as close to the center of the foundation as possible. All foundation caps shall set 1” above grade, the foundation shall be allowed to set for a minimum of 3 days before installing the post. All dirt excavated and other debris shall become the property of the Contractor and shall be disposed of by him at no additional cost to the District.

MEASURE AND PAYMENT – The unit of measure of **FURNISH AND INSTALL SPECIAL SPREAD FOUNDATION FOR STREETLIGHT AND TRAFFIC SIGNAL POLE** will be per EACH. Payment will be made at the contract unit price per each foundation and payment will include all labor, equipment, tools, materials, and all incidentals necessary to complete.

**6. FURNISH AND INSTALL PCC FOUNDATION FOR CONTROLLER CABINET: ITEM: 617 038**

Work under this pay item shall meet the Requirements of 617.05

**7. FURNISH AND INSTALL STRANDED WIRE: ITEM: 618 190 and 618 250**

*Attachment 3*

All wiring shall be continuous from Manhole to Fixtures. Wiring from Manhole to base to be paid for under 618 190 and 618 250. Pole wiring to be included in cost to Furnish and Install Streetlight Pole, Items 618 470, 618 526 and 618 542.

Work under these Pay Items shall meet the requirements of 618.20

**8. FURNISH AND INSTALL STRANDED GROUND WIRE: ITEM: 618 292 and 618 310**

All wiring shall be continuous from Manhole to Fixtures. Wiring from Manhole to base to be paid for under 618 292 and 618 310. Pole wiring to be included in cost to Furnish and Install Streetlight Pole, Items 618 470, 618 526 and 618 542.

Work under these pay Items shall meet the requirements of 618.22

**9. FURNISH AND INSTALL 250 WATT MH TEAR DROP LUMINAIRES: ITEMS: 618 773**

Work under this Pay Item shall meet the requirement of 618.35.

**1. FURNISH AND INSTALL 15" B.C. STEEL TRANSFORMER BASE: ITEM 618 436**

2.

Work under this Pay Item shall meet the requirements of 618.27

**11. FURNISH AND INSTALL STREETLIGHT POLE: ITEMS 618 470, 618 526 and 618 542**

Work under these Pay Items shall meet the requirements of 618.28.

**12. REMOVE ABANDONED TRAFFIC SIGNAL POLE FOUNDATION, REMOVE ABANDONED TRAFFIC SIGNAL CONTROLLER FOUNDATION AND REMOVE STREETLIGHT POLE FOUNDATION: ITEMS: 617 006, 617 126**

Work under these Pay Items shall meet the requirements of 617.17 and 618.26

**13. FURNISH AND INSTALL 118 PLASTIC GLOBE: ITEM 618 860**

Work under this Pay Item shall meet the requirements of 618.34

**14. FURNISH AND INSTALL GLARE SHIELD FOR CONVERSION KIT: ITEM 618 842**

GENERAL -The Contractor shall furnish and install glare shields for conversion kits when directed by the Project Engineer. The shield shall be installed according to the manufacturer's instructions. After the shield is installed the Contractor shall reinstall the globe making sure to tighten all thumbscrews that hold the globe to the casing.

MEASURE AND PAYMENT- The unit of measure for FURNISH AND INSTALL GLARE SHIEL FOR CONVERSION KIT will be per EACH. Payment will be

*Attachment 3*

made at the contract unit price per each shield installed, and payment will include all labor, equipment, tools, materials, and all incidentals necessary to complete.

SCHEDULE OF ITEMS

DATE:

REVISED:

CONTRACT ID: DCKA2011B0076 PROJECT(S): STP 3000(051)

CONTRACTOR : \_\_\_\_\_

LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE		BID AMOUNT	
			DOLLARS	CTS	DOLLARS	CTS

SECTION 0001 PARTICIPATING OF ROADWAY WORK

0010	000003 Employee Training	9360.000 HR	.	.	.	.
0020	000506 Unassigned Special Item -EACH - 617041TRAFFIC SIGNAL REMOVAL, TEMPORARY INSTALLATION AND REINSTALLATION	16.000 EACH	.	.	.	.
0030	000506 Unassigned Special Item -EACH - 618399 SPREAD FOUNDATION FOR LIGHTING A ND SIGNALS	6.000 EACH	.	.	.	.
0040	000506 Unassigned Special Item -EACH - 618543 FURNISH AND INSTALL 28-6" PENDANT POLE W/ DECORATIVE ARM	15.000 EACH	.	.	.	.
0050	000506 Unassigned Special Item -EACH - 618545 FURNISH AND INSTALL DECORATIVE SHROUD	15.000 EACH	.	.	.	.
0060	000506 Unassigned Special Item -EACH - 618773 250 WATT MH LUMINNAIRE	15.000 EACH	.	.	.	.
0070	000506 Unassigned Special Item -EACH - 618775 175 WATT MH LUMINAIRE	118.000 EACH	.	.	.	.

SCHEDULE OF ITEMS

DATE:

REVISED:

CONTRACT ID: DCKA2011B0076 PROJECT(S): STP 3000(051)

CONTRACTOR : \_\_\_\_\_

LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE		BID AMOUNT	
			DOLLARS	CTS	DOLLARS	CTS
0080	000509 Unassigned Special Item -LF - 616057 4" REMOVABLE PREFORMED LINE STRIP ING MATERIAL	500.000 LF	.	.	.	.
0090	108002 Progress Photographs	LUMP	LUMP	.	.	.
0100	108004 As-Built Drawings	LUMP	LUMP	.	.	.
0110	202002 Common Excavation	5548.000 CY	.	.	.	.
0120	202004 Hard Surface Pavement Excavation	3230.000 CY	.	.	.	.
0130	204004 Borrow Embankment Fill	1200.000 CY	.	.	.	.
0140	207002 Trench Excavation and Backfill	2369.000 CY	.	.	.	.
0150	207008 Borrow Trench Backfill	4349.000 CY	.	.	.	.
0160	209002 Aggregate Base Course	1204.000 CY	.	.	.	.
0170	209991 Aggregate Base Course Special Item -CY- 209003 TREE PIT GRAVEL AND STONE BEDDING	1373.000 CY	.	.	.	.

SCHEDULE OF ITEMS

DATE:

REVISED:

CONTRACT ID: DCKA2011B0076 PROJECT(S): STP 3000(051)

CONTRACTOR : \_\_\_\_\_

LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE		BID AMOUNT	
			DOLLARS	CTS	DOLLARS	CTS
0180	212002 Test Pit	15.000 EACH	.		.	
0190	302002 Valve Casing	21.000 EACH	.		.	
0200	303004 Remove Fire Hydrant	5.000 EACH	.		.	
0210	305002 Ductile Iron Pipe, 4 - 8 Inch	1700.000 LF	.		.	
0220	305004 Ductile Iron Pipe, 12 Inch	1842.000 LF	.		.	
0230	305018 Extra Fittingd - Contractor Furnished	5500.000 LBS	.		.	
0240	305991 Pipe Water Main - Ductile Iron Special Item - LF - 305 001 DUCTILE IRON PIPE, 3 INCH, UNITS : LF	40.000 LF	.		.	
0250	306002 Gate Butterfly Valve, 3 - 12 Inch	21.000 EACH	.		.	
0260	307002 Set Fire Hydrant	9.000 EACH	.		.	
0270	308012 Replace Water Service Pipe	1950.000 LF	.		.	

SCHEDULE OF ITEMS

DATE:

REVISED:

CONTRACT ID: DCKA2011B0076 PROJECT(S): STP 3000(051)

CONTRACTOR : \_\_\_\_\_

LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE		BID AMOUNT	
			DOLLARS	CTS	DOLLARS	CTS
0280	308014 Furnish and Install Curb Stop/Curb Stop Box	25.000 EACH	.		.	
0290	308016 Furnish&Install Water Meter Housing, Frame& Cover	25.000 EACH	.		.	
0300	308018 Water Service Test Hole	25.000 EACH	.		.	
0310	309002 Sewer Manhole on Sewer 48 Inch and Less Dia.	97.000 VLF	.		.	
0320	309991 Sewer Manhole Special Item - EACH - 308 019 FIELD CUT PIPE ENTRY HOLE, UNITS : EACH	11.000 EACH	.		.	
0330	310004 Standard Double Basin	5.000 EACH	.		.	
0340	310008 Basin Connect PCC Pipe, Class III, 15 Inch	550.000 LF	.		.	
0350	310992 Catch Basins Special Item -EACH - 310 003 SINGLE THROAT WATER QUALITY BASIN	2.000 EACH	.		.	
0360	310992 Catch Basins Special Item -EACH - 310 005 DOUBLE THROAT WATER QUALITY BASIN	11.000 EACH	.		.	
0370	311026 Replace Existing Basin with Double Basin	2.000 EACH	.		.	

SCHEDULE OF ITEMS

DATE:

REVISED:

CONTRACT ID: DCKA2011B0076

PROJECT(S): STP 3000(051)

CONTRACTOR : \_\_\_\_\_

LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE		BID AMOUNT	
			DOLLARS	CTS	DOLLARS	CTS
0380	311991 Adjust, Rebuild&Replace Manhole&Catchbasin-Special Item -EA- 311 027 REPLACE EXISTING BASIN WITH DOUB LE THROAT WATER QUALITY BASIN	5.000 EACH	.	.	.	.
0390	313002 Abandon Basin Connecting Pipe	10.000 EACH	.	.	.	.
0400	313006 Abandon Basin	9.000 EACH	.	.	.	.
0410	314006 PCC Pipe, Class III, Gasket, 18 Inch	882.000 LF	.	.	.	.
0420	324002 PCC In-Line Thrust Block	15.000 EACH	.	.	.	.
0430	402012 Sperrpave Surface Course, 12.5 mm	1909.000 TON	.	.	.	.
0440	403002 Tack Coat	14281.000 SY	.	.	.	.
0450	407002 Temporary AC, Superpave Surface Course, 12.5 mm	302.000 TON	.	.	.	.
0460	504992 PCC Driveway-Alley Entrance Special Item -SY - 504 007 BRICK ALLEY PAVING ON 7" PCC BAS E, UNITS: SY	308.000 SY	.	.	.	.

SCHEDULE OF ITEMS

DATE:

REVISED:

CONTRACT ID: DCKA2011B0076

PROJECT(S): STP 3000(051)

CONTRACTOR : \_\_\_\_\_

LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE		BID AMOUNT	
			DOLLARS	CTS	DOLLARS	CTS
0470	506004 Repair PCC Base	992.000 CY	.		.	
0480	600006 Incidental Construction Special Item - EACH - 602 003 PCC FOOTING FOR MULTI SPACE PARK ING METER, UNITS: EACH	23.000 EACH	.		.	
0490	600006 Incidental Construction Special Item - EACH - 608 001 REMOVE PARKING METER, UNITS: EACH	30.000 EACH	.		.	
0500	600006 Incidental Construction Special Item - EACH - 608 003 FURNISH AND INSTALL MULTI SPACE PARKING METER, UNITS: EACH	23.000 EACH	.		.	
0510	600006 Incidental Construction Special Item - EACH - 608 005 REMOVE AND RESET MAILBOX, UNITS: EACH	3.000 EACH	.		.	
0520	600006 Incidental Construction Special Item - EACH - 611 101 BIKE RACKS, UNITS: EACH	42.000 EACH	.		.	
0530	602002 PCC Footing (Minor)	21.000 CY	.		.	
0540	602006 Stone Masonry Wall	35.000 CY	.		.	

## SCHEDULE OF ITEMS

DATE:

REVISED:

CONTRACT ID: DCKA2011B0076

PROJECT(S): STP 3000(051)

CONTRACTOR : \_\_\_\_\_

LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE		BID AMOUNT	
			DOLLARS	CTS	DOLLARS	CTS
0550	606002 Pavement Profiling (Milling)	12002.000 SY	.		.	
0560	607038 Remove Existing Chain Link Fence	470.000 LF	.		.	
0570	608012 PCC Driveway, 6 Inch	1650.000 SY	.		.	
0580	608024 Brick Sidewalk on PCC Base	1632.000 SY	.		.	
0590	608028 Block Sidewalk on PCC Base	7006.000 SY	.		.	
0600	608032 Brick Sidewalk Repair on PCC Base	159.000 SY	.		.	
0610	608992 Sidewalks & Driveway Special Item - SY - 608 029 PLAZA STONE PAVING ON 4" PCC BAS E, UNITS: SY	306.000 SY	.		.	
0620	609068 Furnish and Set 8"x12" Granite Straight Curb	3313.000 LF	.		.	
0630	609070 Furnish and Set 8"x12" Granite Circular Curb, Radius Under 1 0 Ft.	235.000 LF	.		.	
0640	609072 Furnish and Set 8"x12" Granite Circular Curb, Radius 10-100 Ft.	282.000 LF	.		.	

SCHEDULE OF ITEMS

DATE:

REVISED:

CONTRACT ID: DCKA2011B0076 PROJECT(S): STP 3000(051)

CONTRACTOR : \_\_\_\_\_

LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE		BID AMOUNT	
			DOLLARS	CTS	DOLLARS	CTS
0650	609200 PCC Wheelchair/Bicycle Ramp - New Construction	20.000 EACH	.		.	
0660	609500 Brick Gutter	3074.000 LF	.		.	
0670	609993 Curb, Gutter, & Paved Flume Special Item - LF - 609 061 FURNISH AND SET 6"X12-14" GRANITE STRAIGHT CURB, UNITS: LF	5288.000 LF	.		.	
0680	610058 Planting Soil Mix	4175.000 CY	.		.	
0690	610060 Mulch	4165.000 SY	.		.	
0700	611002 Remove Tree and Stump up to 6 Inch Dia.	1.000 EACH	.		.	
0710	611004 Remove Tree and Stump 6 to 12 Inch Dia.	8.000 EACH	.		.	
0720	611006 Remove Tree and Stump 12 to 18 Inch Dia.	24.000 EACH	.		.	
0730	611008 Remove Tree and Stump 18 to 24 Inch Dia.	3.000 EACH	.		.	
0740	611010 Remove Tree and Stump 24 to 30 Inch Dia.	6.000 EACH	.		.	

SCHEDULE OF ITEMS

DATE:

REVISED:

CONTRACT ID: DCKA2011B0076 PROJECT(S): STP 3000(051)

CONTRACTOR : \_\_\_\_\_

LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE		BID AMOUNT	
			DOLLARS	CTS	DOLLARS	CTS
0750	611014 Remove Tree and Stump 36 to 42 Inch Dia.	1.000 EACH	.		.	
0760	611094 Park Benches	30.000 EACH	.		.	
0770	611104 Litter Baskets	14.000 EACH	.		.	
0780	611999 Tree, Shrub, Vine, & Ground Cover Special Item - EACH - 611 282 GROUND COVER - AJUGA REPTANS 'ATROPURPUREA'	8695.000 EACH	.		.	
0790	611999 Tree, Shrub, Vine, & Ground Cover Special Item - EACH - 611 445 PERENNIAL - FESTUCA GLAUCA 'ELIJAH BLUE'	3329.000 EACH	.		.	
0800	611999 Tree, Shrub, Vine, & Ground Cover Special Item - EACH - 611 463 GROUND COVER - GERANIUM X 'ROZANNE'	1952.000 EACH	.		.	
0810	611999 Tree, Shrub, Vine, & Ground Cover Special Item - EACH - 611 548 PERENNIAL - LIRIOPE MUSCARI 'VARIEGATA'	7663.000 EACH	.		.	
0820	611999 Tree, Shrub, Vine, & Ground Cover Special Item - EACH - 611 779 4" CAL. PLATANUS ACERIFOLIUM 'BL OODGOOD', UNITS: EACH	105.000 EACH	.		.	

SCHEDULE OF ITEMS

DATE:  
REVISED:

CONTRACT ID: DCKA2011B0076 PROJECT(S): STP 3000(051)

CONTRACTOR : \_\_\_\_\_

LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE		BID AMOUNT	
			DOLLARS	CTS	DOLLARS	CTS
0830	611999 Tree, Shrub, Vine, & Ground Cover Special Item - EACH - 611 989 8" CAL. CLADRASTIS LUTEA, UNITS: EACH	3.000 EACH	.	.	.	.
0840	612002 Mobilization	LUMP	LUMP	.	.	.
0850	614012 Portable Precast PCC Barrier	625.000 LF	.	.	.	.
0860	614992 PCC Traffic Barriers Special Item - LF - MOVE PORTABLE PRECAST PCC BARRIER	4200.000 LF	.	.	.	.
0870	616004 Construction Lane Closing	LUMP	LUMP	.	.	.
0880	616006 Remove Lane Markings	525.000 SF	.	.	.	.
0890	616008 Temporary Construction Sign Supports	40.000 EACH	.	.	.	.
0900	616012 Construction Warning and Detour Signs	394.000 SF	.	.	.	.
0910	616014 Reflectorized Traffic Cones	10.000 EACH	.	.	.	.
0920	616016 Flashing Amber Warning Lights, Type "B"	8.000 EACH	.	.	.	.

SCHEDULE OF ITEMS

DATE:

REVISED:

CONTRACT ID: DCKA2011B0076

PROJECT(S): STP 3000(051)

CONTRACTOR : \_\_\_\_\_

LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE		BID AMOUNT	
			DOLLARS	CTS	DOLLARS	CTS
0930	616024 Type III PVC Barricade	10.000 EACH	.		.	
0940	616028 Traffic Drums	100.000 EACH	.		.	
0950	616040 Thermoplastic Pavement Marking, 4 Inch	5237.000 LF	.		.	
0960	616042 Thermoplastic Pavement Marking, 4 Inch Dash	243.000 LF	.		.	
0970	616044 Thermoplastic Pavement Marking, 6 Inch	2403.000 LF	.		.	
0980	616046 Thermoplastic Pavement Marking, 6 Inch Dash	155.000 LF	.		.	
0990	616050 Thermoplastic Pavement Marking, 12 Inch	489.000 LF	.		.	
1000	616052 Thermoplastic Pavement Letter	24.000 EACH	.		.	
1010	616054 Thermoplastic Pavement Arrow	13.000 EACH	.		.	
1020	616090 Construction Zone Attenuator	2.000 EACH	.		.	
1030	616122 Steel Protection Plate	5.000 EACH	.		.	

SCHEDULE OF ITEMS

DATE:

REVISED:

CONTRACT ID: DCKA2011B0076

PROJECT(S): STP 3000(051)

CONTRACTOR : \_\_\_\_\_

LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE		BID AMOUNT	
			DOLLARS	CTS	DOLLARS	CTS
1040	616150 Repair of Damaged Major Traffic Control Devices . . .	LUMP	LUMP			.
1050	616992 Traffic Control Special Item - EACH - 616 053 THERMOPLASTIC PAVEMENT MARKING, BIKE LANE SYMBOL, UNITS: EACH	EACH	8.000			.
1060	616994 Traffic Control Special Item - LF - 616 051 THERMOPLASTIC PAVEMENT MARKING, 24 INCH, UNITS: LF	LF	2397.000			.
1070	617006 Remove Abandoned Traffic Signal Or Street Light Pole Foundat ion	EACH	30.000			.
1080	617008 Furnish And Install Pcc Foundation For Traffic Signal Pole O r Pendant Post Street Light Pole	EACH	19.000			.
1090	617014 Furnish And Install One 2 Inch Pvc Encased Electrical Condui t	LF	4110.000			.
1100	617024 Furnish And Install Galvanized Steel Transformer Base	EACH	4.000			.
1110	617030 Furnish And Install One 2 Inch And Two 4 Inch Pvc Encased El ectrical Conduits	LF	29.000			.

## SCHEDULE OF ITEMS

DATE:

REVISED:

CONTRACT ID: DCKA2011B0076

PROJECT(S): STP 3000(051)

CONTRACTOR : \_\_\_\_\_

LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE		BID AMOUNT	
			DOLLARS	CTS	DOLLARS	CTS
1120	617032 Furnish And Install One 2 Inch And One 4 Inch Pvc Encased El ectrical Conduits	280.000 LF	.		.	
1130	617034 Furnish And Install Four 4 Inch Pvc Encased Electrical Condu its	1876.000 LF	.		.	
1140	617038 Furnish And Install Pcc Foundation For Controller Cabinet	2.000 EACH	.		.	
1150	617040 Furnish Temporary, Portable, Concrete Base For Model 336-S A nd Model 336-Ss Traffic Signal Controller Cabinet	2.000 EACH	.		.	
1160	617042 Furnish Temporary, Portable, Concrete Base For 20 Foot Steel Traffic Signal Pole Mounted On A Transformer Base	16.000 EACH	.		.	
1170	617046 Furnish And Install 20 Foot Tall Steel Traffic Signal Pole	4.000 EACH	.		.	
1180	617048 Furnish And Install 8 Foot Long Mast Arm With Clamp And Remo veable End Cap	8.000 EACH	.		.	
1190	617050 Furnish And Install 7 Conductor 14 Awg Stranded Electrical T raffic Signal Cable	4764.000 LF	.		.	

## SCHEDULE OF ITEMS

DATE:

REVISED:

CONTRACT ID: DCKA2011B0076

PROJECT(S): STP 3000(051)

CONTRACTOR : \_\_\_\_\_

LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE		BID AMOUNT	
			DOLLARS	CTS	DOLLARS	CTS
1200	617054 Furnish And Install 12 Pair 19 Awg Underground Communication s Cable	1726.000 LF	.		.	
1210	617068 Furnish Red Ball Led Module	24.000 EACH	.		.	
1220	617070 Furnish Yellow Ball Led Module	24.000 EACH	.		.	
1230	617072 Furnish Green Ball Led Module	24.000 EACH	.		.	
1240	617084 Furnish 12 Inch Overlay Lunar White Walking Person And Portl and Orange Raised Hand Led Module	16.000 EACH	.		.	
1250	617086 Furnish 12 Inch Portland Orange Countdown Led Module	16.000 EACH	.		.	
1260	617090 Furnish And Install 3 Section Conventional Traffic Signal He ad On A Pole (All Lenses 12?)	16.000 EACH	.		.	
1270	617096 Furnish And Install 3 Section Conventional Traffic Signal He ad On A Mast Arm (All Lenses 12?)	8.000 EACH	.		.	
1280	617114 Furnish And Install 2 Section Conventional Pedestrian Signal Head On A Pole (12?)	16.000 EACH	.		.	

## SCHEDULE OF ITEMS

DATE:

REVISED:

CONTRACT ID: DCKA2011B0076

PROJECT(S): STP 3000(051)

CONTRACTOR : \_\_\_\_\_

LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE		BID AMOUNT	
			DOLLARS	CTS	DOLLARS	CTS
1290	617124 Furnish And Install Traffic Signal Controller And Cabinet	2.000 EACH	.	.	.	.
1300	617126 Remove Abandoned Traffic Signal Controller Cabinet Foundatio n	2.000 EACH	.	.	.	.
1310	617130 REMOVE TRAFFIC SIGNAL POLE AND TRAFFIC SIGNAL EQUIPMENT	8.000 EACH	.	.	.	.
1320	617132 Remove Traffic Signal Controller And Cabinet	2.000 EACH	.	.	.	.
1330	618016 Furnish and Install 36" x 36" x 36" Manhole	24.000 EACH	.	.	.	.
1340	618022 Furnish and Install 48" x 48" x 48" Manhole	12.000 EACH	.	.	.	.
1350	618160 Furnish and Install 2-4" Schedule 40 Rigid PVC Conduit (duct bank)	446.000 LF	.	.	.	.
1360	618190 Furnish and Install #10 Stranded Wire	9240.000 LF	.	.	.	.
1370	618208 Furnish and Install #4 Stranded Wire	3096.000 LF	.	.	.	.
1380	618250 Furnish and Install #0000 Stranded Wire	6039.000 LF	.	.	.	.

## SCHEDULE OF ITEMS

DATE:

REVISED:

CONTRACT ID: DCKA2011B0076

PROJECT(S): STP 3000(051)

CONTRACTOR : \_\_\_\_\_

LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE		BID AMOUNT	
			DOLLARS	CTS	DOLLARS	CTS
1390	618292 Furnish and Install #8 Stranded Ground Wire	4016.000 LF	.		.	
1400	618310 Furnish and Install #2 Stranded Ground Wire	2465.000 LF	.		.	
1410	618334 Remove Conductors in Conduits	2521.000 LF	.		.	
1420	618398 Furnish and Install Street Light Foundation, Any Type	81.000 EACH	.		.	
1430	618400 Remove Street Light Pole Foundation	19.000 EACH	.		.	
1440	618436 Furnish and Install 15" B.C Steel Transformer Base	15.000 EACH	.		.	
1450	618454 Remove Steel Transformer Base	19.000 EACH	.		.	
1460	618470 Furnish and Install #14 Cast Iron Pole	36.000 EACH	.		.	
1470	618526 Furnish and Install Twin 20 Steel/Cast Iron Pole	41.000 EACH	.		.	
1480	618542 Furnish and Install 28'-6" Steel Pendant Pole with up to 8' Arm	14.000 EACH	.		.	

SCHEDULE OF ITEMS

CONTRACT ID: DCKA2011B0076

PROJECT(S): STP 3000(051)

CONTRACTOR : \_\_\_\_\_

LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE		BID AMOUNT	
			DOLLARS	CTS	DOLLARS	CTS
1490	618566 Remove Pendant Pole 30 ft. Height or Less	19.000 EACH	.		.	
1500	618702 Remove Fixture/Arm from Structure	19.000 EACH	.		.	
1510	618842 Furnish and Install Glare Shield for Conversion Kit	10.000 EACH	.		.	
1520	618852 Furnish and Install 192 Plastic Globe	36.000 EACH	.		.	
1530	618860 Furnish and Install 118 Plastic Globe	82.000 EACH	.		.	
1540	618999 Payment to PEPCO for Connection, Disconnection, Inspection 1	LUMP	LUMP		120000.00	
1550	620014 Traffic Sign Panels	246.000 SF	.		.	
1560	620022 METAL SIGN POST	33.000 LF	.		.	
1570	620040 Federal Aid Project Sign	2.000 EACH	.		.	
1580	620993 Traffic Signing Special Item - EACH - 620 031 REMOVE EXISTING GROUND MOUNTED SIGN, UNITS: EACH	19.000 EACH	.		.	

SCHEDULE OF ITEMS

DATE:

REVISED:

CONTRACT ID: DCKA2011B0076

PROJECT(S): STP 3000(051)

CONTRACTOR : \_\_\_\_\_

LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE		BID AMOUNT	
			DOLLARS	CTS	DOLLARS	CTS
1590	624002 Engineer's Field Facilities	LUMP	LUMP			.
1600	625002 Field Layout	LUMP	LUMP			.
1610	628002 Erosion and Sediment Control	LUMP	LUMP			.
1620	709006 Pipe Handrail 709 013 METAL RAILING AROUND PLANTING BE D, UNITS: LF	LF	5288.000			.
	SECTION 0001 TOTAL					.
	TOTAL BID					.