

AMENDMENT OF SOLICITATION / MODIFICATION OF CONTRACT				1. Solicitation Number DCKA-2020-B-0045	Page of Pages 1 28
2. Amendment/Modification Number Amendment No. 3	3. Effective Date See Box 16B	4. Requisition/Purchase Request No.	5. Solicitation Caption Pennsylvania Avenue, SE, 2 nd Street to 14 th Street Streetlight Upgrade		
6. Issued by: District Department of Transportation Office of Contracting and Procurement 55 M Street, SE, 7 th Floor Washington, DC 20003		Code	7. Administered by (If other than line 6)		
8. Name and Address of Contractor (No. street, city, county, state and zip code) TO ALL PROSPECTIVE BIDDERS		X	9A. Amendment of Solicitation No. DCKA-2020-B-0045		
Code			9B. Dated (See Item 11) 09/01/2020		
Facility			10A. Modification of Contractor/Order No.		
			10B. Dated (See Item 13)		
11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS					
<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 ACKNOWLEDGMENT 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 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):					
13. THIS ITEM APPLIES ONLY TO MODIFICATIONS OF CONTRACTORS/ORDERS, IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14					
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 data 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:					
<input checked="" type="checkbox"/> D. Other (Specify type of modification and authority) 27 DCMR 1517 Amendment of Invitation for Bids					
E. IMPORTANT: Contractor <input checked="" type="checkbox"/> is not <input type="checkbox"/> is required to sign this document and return ___ copies to the issuing office.					
14. Description of Amendment/Modification (Organized by UCF Section headings, including solicitation/contract subject matter where feasible.) Invitation for Bids No.: DCKA-2020-B-0045 is hereby amended as follows: 1. The due date and time for submission of bids are 2:00 PM local time, Thursday, October 22, 2020. 2. The public bid opening will be held via WebEx at 3:00 PM local time, Thursday, October 22, 2020.					
Join by Video			Join by Phone		
Meeting link: https://dcnet.webex.com/webappng/sites/dcnet/meeting/download/b56515f835334d5c99d18ef78c07c533?siteurl=dcnet&MTID=m50bbf28dab70ba93945b398cc8eb8533			+1-202-860-2110 United States Toll (Washington D.C.)		
Meeting number: 172 145 6790			1-650-479-3208 Call-in number (US/Canada)		
Password: Nj66V8FyC23			Access code: 172 145 6790		
Responses to question submitted by prospective bidders are included on pages 2 thru 6 of this amendment.					
15A. Name and Title of Signer (Type or print)			16A. Name of Contracting Officer Margaret Platek Contracting Officer		
15B. Name of Contractor (Signature)	15C. Date Signed	16B. District of Columbia (Signature of Contracting Officer)		16C. Date Signed	

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List of Attachments to Amendment No.3

- a. Updated Revised Price Schedule K.3 dated 10/09/2020 11:46:33 (Q#33)
- b. Addendum to Pricing Schedule file DCKA2020B0045.001x is available for downloading at <https://dtaap.ddot.dc.gov/Project/Solicitation>
- c. Pre-Bid Conference Meeting Attendees (Q#5)
- d. Corrected K.2 Bid Form (Q#17)
- e. Updated J.4 Employee Training Requirements (Q#24)
- f. Attachment J.18 to the Solicitation; DDOT Traffic Cabinet General Fiber Optic Specification

Responses to un-answered in Amendment No.2 questions #5, #17, #21, #24, #25, and #33 are included below.

Q5. Is there a pre-bid sign in sheet available that could be emailed to me?

Q5 Response: Pre-Bid attendance list is included as attachment to this Amendment.

Q17. The Bid Form states that the Bid, guaranty, etc. must be marked with the Invitation No. DCKA-2020-B-008. Please confirm that Bidders should mark their Bids with the Invitation No. DCKA-2020-B0045, as this is the number consistently given across the solicitation package.

Q17 Response: Please use DCKA-2020-B-0045. Revised Form is included as attachment to this Amendment.

Q21. Please confirm an IMSA Level III Technician is required to make bench repairs to the traffic signal controllers as required.

Q21 Response: This requirement is not needed for Fiber installation. Fiber optic cable and equipment installation shall be performed by qualified personnel and shall conform to the attached J.18 DDOT Traffic Cabinet General Fiber Optic Specification.

Q24. Per line item #5, 3,200 hours of Employee Training are required on this project. Per Section H.4 of the ITB, that breakdown is provided. However, in Section J.4 shows no employees or classifications required to be trained. Please clarify the requirements.

Q24 Response: Updated attachment J.4 Employee Training Requirements included with this Amendment.

Q25. Can DDOT confirm that paving & incidental rates are not acceptable for use on this project?

Q25 Response: Based on the type of worked being performed, this would be considered as a Heavy & Highway Construction Wage Decision. there are aspects of the scope that may pertain to paving and/or services, the contract would have to specify the tracking of all those tasks and the type of wages to be paid. This would allow for a hybrid if the paving and/or service work was in excess of 20% of the work being performed. Reference from the Prevailing Wage Resource book below:

"Highway Construction includes the construction, alteration or repair of roads, streets, highways, runways, parking areas and most other paving work not incidental to building or heavy construction.

Heavy Construction is a "catch-all" category which includes those projects which cannot be classified as Building, Residential or Highway. Heavy construction is often further distinguished on the basis of the characteristics of particular projects, such as dredging, water and sewer line, dams, major bridges and flood control projects."

The project is 75% Street Light and 25% Paving; Milling and paving the roadway with asphalt, line striping and installing handicap ramps at the intersections.

Milling, paving & line striping = paving
Street light and traffic signal work, Installing handicap ramps = heavy

Q33. The fiber optic comm cable logic plan shows multiple proposed items for install but there are no correlating line items. Please provide line items for all required to install proposed fiber optic system. For Example Interconnect center, layer 2 switches, fiber splices, device servers, pig tails and others.

Q33 Response: K.3 Revised Price Schedule included as attachment to this Amendment.

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Additional Questions not included in Amendment No.2 and Responses are included below.

Q37. Currently, the lead time for streetlight and traffic poles exceeds 15 weeks. Can DDOT confirm if this lead time was factored in the project duration defined by the ITB? Can DDOT advise if delays in pole manufacturing are eligible for a time extension, if encountered, due to the limited sources of fabricators for these specific poles?

Q37 Response: Yes, additional time had been factored in the proposed project duration.

Q38. Has the MOT plan provided within the plans been cross-referenced with ongoing TCPs currently deployed within the project corridor, specifically building projects that encroach on the public space?

Q38 Response: No. However, the contactor shall update the MOT plans as required to safely deploy MOT set up and submit for DDOT approval. The contractor also required to coordinate with other permit holders.

Q39. There are no pay items for the fiber termination panel, splicing, patch cables, Ethernet switches, and testing. Please confirm if DDOT will complete these pay items and are not the Contractor's responsibility.

Q39 Response: New pay items are added.

Q40. There is no pay item for the CAT5e cable required for the CCTV Camera. Please add an additional pay item for this.

Q40 Response: As per the Gold Book section 613.49 and supplemental specifications J.12.31 all the required materials and incidentals needed to complete the CCTV work are paid under the CCTV Camera System Pay item 613 096

Q41. Please confirm that intersection phases 1 & 2 will be allowed while the mainline phase is ongoing. Installation of traffic signal and streetlight cables requires a combination of both phase types in order to complete.

Q41 Response: Yes, phase 1 & 2 can be allowed while the mainline phase is ongoing, provided that the required number of travel lanes along the Pennsylvania Avenue and the side streets are open to traffic flow per the contract document and at least one of the sidewalk ramps remain open at the quadrant of the intersection. Any changes to the MOT plans shall be approved by DDOT.

Q42. Note 3 of the mainline MOT phase indicates that temporary signs and traffic control devices shall be removed to allow three lanes of traffic in each direction. However, that phase shows movable barrier for the entire length of the project. In order to be able to clear traffic control devices from the travel lane, please confirm that barrels are acceptable in lieu of a movable barrier, and that road plates are acceptable to be placed over the excavated area overnight.

Q42 Response: The movable barriers are required to be used only for the portion of the segment where the contractor is performing the work. Note 5 of the mainline MOT phase indicates that "The contactor shall limit the work area that he or she can perform in one day and maintain traffic flow. The work shall be performed block by block with multiple segments. For each segment, the work zone shall not exceed more than 200 ft." The contractor shall get approval from DDOT for any changes made to the MOT plans. Steel Protection Plates are acceptable to be placed over the excavated area overnight following directions provided in the contract documents under "sequence of construction" and "general notes" in MOT plans and DDOT standard specifications (section 612.19). The steel plates are paid as incidental under the electrical conduits (concrete encased) pay items as specified in the Gold Book section 614.12.

Q43. Note 5 of the mainline MOT phase indicates that work shall be performed block by block with multiple segments, and that each segment shall not exceed 200'. Please confirm that multiple work zones or segments are allowed to be constructed at the same time.

Q43 Response: Yes.

Q44. We are looking to provide bids for a certain portion of this project as a part of the General Contractors total bid. Is there a bidders list available so that we can contact and provide our numbers to the prospective primary bidders?

Q44 Response: See response to question 5.



**District Department of Transportation
Proposal**

Proposal ID : DCKA2020B0045

Projects : DCKA2020B0045

Districts : Ward0005 and Ward0006

Wards : WARD 6



Proposal ID : DCKA2020B0045

Penn Ave SE Streetlight, 2nd Street to 14th Street.

Time ID	Completion Date or Number of Units	Min/Max	Unit Type	Time Type	Liquidated Damages Rate	Contract Time Flag
00	540	/	Days	CD		√

(*) - Indicates Cost Plus Time Site. See Schedule of Items for Cost Per Unit

Bidders must enter all unit prices, make all extensions, and total the bid.



Proposal Schedule of Items

Proposal ID: DCKA2020B0045

Project(s): DCKA2020B0045

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Alt Set ID:

Alt Mbr ID:

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price		Bid Amount	
			Dollars	Cents	Dollars	Cents
0005	000003 Employee Training	3,200.000 HR	_____	_____	_____	_____
0010	108002 Mobilization	LUMP SUM	LUMP SUM		_____	_____
0015	108004 Progress Photographs	LUMP SUM	LUMP SUM		_____	_____
0020	108006 Record Drawings and As-Built Drawings	LUMP SUM	LUMP SUM		_____	_____
0025	108012 Engineer's Field Facilities	LUMP SUM	LUMP SUM		_____	_____
0030	202002 Common Excavation	100.000 CY	_____	_____	_____	_____
0035	205012 Remove Abandoned Streetcar Track	200.000 LF	_____	_____	_____	_____
0040	209002 Aggregate Base Course	1,801.000 CY	_____	_____	_____	_____
0045	212002 Test Pit	350.000 EACH	_____	_____	_____	_____
0050	402010 HMA Surface Course, 12.5 mm	8,981.000 TON	_____	_____	_____	_____
0055	403002 Tack Coat	82,584.000 SY	_____	_____	_____	_____
0060	405997 Temporary AC Special Item - TON - Hot Mix Temporary Asphalt only for milling and pavement phase	30.000 TON	_____	_____	_____	_____
0065	410002 Pavement Profiling (Milling)	82,584.000 SY	_____	_____	_____	_____



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			Dollars	Cents	Dollars	Cents
0070	502004 PCC Base for Utility Cuts	2,401.000 CY	_____	_____	_____	_____
0075	505032 Repair PCC Pavement	481.000 CY	_____	_____	_____	_____
0080	605018 Repair-Replace PCC Sidewalk, 4 Inch	622.000 SY	_____	_____	_____	_____
0085	605036 Brick Sidewalk Repair on Sand-Cement Base	429.000 SY	_____	_____	_____	_____
0090	606064 Furnish and Set 8"x12" Granite Straight Curb	150.000 LF	_____	_____	_____	_____
0095	606068 Furnish&Set8"x12"Granite Circular Curb Radius10-100Ft	150.000 LF	_____	_____	_____	_____
0100	606098 PCC Wheelchair/Bicycle Ramp - New Construction	8.000 EACH	_____	_____	_____	_____
0105	606100 PCC Wheelchair/Bicycle Ramp - Existing Construction	158.000 EACH	_____	_____	_____	_____
0110	607018 Sod with 3 Inch Topsoil	92.000 SY	_____	_____	_____	_____
0115	608072 Tree Protection and Replacement	220.000 EACH	_____	_____	_____	_____
0120	608114 Tree Trimming	50.000 HR	_____	_____	_____	_____
0125	612002 Maintenance of Highway Traffic	LUMP SUM	LUMP SUM		_____	_____



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			Dollars	Cents	Dollars	Cents
0130	612054 Thermoplastic Pavement Marking, 4 Inch	14,450.000 LF	_____.	_____.	_____.	_____.
0135	612058 Thermoplastic Pavement Marking, 6 Inch	7,510.000 LF	_____.	_____.	_____.	_____.
0140	612064 Thermoplastic Pavement Marking, 12 Inch	2,275.000 LF	_____.	_____.	_____.	_____.
0145	612066 Thermoplastic Pavement Marking, 24 Inch	5,410.000 LF	_____.	_____.	_____.	_____.
0150	612068 Thermoplastic Pavement Letter	4.000 EACH	_____.	_____.	_____.	_____.
0155	612070 Thermoplastic Pavement Arrow	6.000 EACH	_____.	_____.	_____.	_____.
0160	612076 Thermoplastic Pavement Bicycle Marking, 8 Foot	3.000 EACH	_____.	_____.	_____.	_____.
0165	613028 F&I No. 6 Awg Stranded Wire	6,081.000 LF	_____.	_____.	_____.	_____.
0170	613038 Furnish&Install One 2 In&One 4 In PVC Encased Elec Conduits	2,812.000 LF	_____.	_____.	_____.	_____.
0175	613040 Furnish&Install Four 4 In PVC Encased Electrical Conduits	5,763.000 LF	_____.	_____.	_____.	_____.
0180	613050 F&I Pcc Foundation For Controller Cabinet	13.000 EACH	_____.	_____.	_____.	_____.
0185	613052 Fur Temp Port Concrete Base M.336-S&M.336-Ss Traf Sig Cab	13.000 EACH	_____.	_____.	_____.	_____.



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			Dollars	Cents	Dollars	Cents
0190	613054 Fur Temp Port Conc Base 20 Ft Steel Traf Pole on Trans Base	73.000 EACH	_____	_____	_____	_____
0195	613056 Relocate Any Temporary, Portable, Concrete Base	94.000 EACH	_____	_____	_____	_____
0200	613058 F&I 20 Foot Tall Steel Traffic Signal Pole	143.000 EACH	_____	_____	_____	_____
0205	613078 Furnish&Install 8 Ft Mast Arm w/Clamp & Removable End Clamp	68.000 EACH	_____	_____	_____	_____
0210	613096 Furnish&Install Closed Circuit Television Camera System	4.000 EACH	_____	_____	_____	_____
0215	613098 F&I 7 Conductor 14 Awg Stranded Electrical Traffic Sig Cable	103,185.000 LF	_____	_____	_____	_____
0220	613100 F&I 4 Conduct 18 Awg Shielded Stranded Elec. Traf Sig Cable	53,464.000 LF	_____	_____	_____	_____
0225	613110 Furnish&Inst 50 Pair 19 Awg Underground Communications Cable	4,800.000 LF	_____	_____	_____	_____
0230	613114 Furnish&Ins 100 Pair 19 Awg Underground Communications Cable	10,176.000 LF	_____	_____	_____	_____
0235	613118 F&I Outside Plant Fiber Optic Cable(Type, Mode, Size) F&I 12-Strand SM Outside Plant Armored Stranded Fiber Optic Cable	19,081.000 LF	_____	_____	_____	_____
0240	613150 Furnish Red Ball Led Module (12 inch)	218.000 EACH	_____	_____	_____	_____



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			Dollars	Cents	Dollars	Cents
0245	613156 Furnish Yellow Ball Led Module (12 inch)	218.000 EACH	_____.	_____.	_____.	_____.
0250	613162 Furnish Green Ball Led Module (12 inch)	146.000 EACH	_____.	_____.	_____.	_____.
0255	613164 Furnish Red Arrow Led Module	6.000 EACH	_____.	_____.	_____.	_____.
0260	613166 Furnish Yellow Arrow Led Module	6.000 EACH	_____.	_____.	_____.	_____.
0265	613168 Furnish Green Arrow Led Module	78.000 EACH	_____.	_____.	_____.	_____.
0270	613192 12 In Overlay White Wlknng Person & Portlnd Orange Led Mod	156.000 EACH	_____.	_____.	_____.	_____.
0275	613194 Furnish 12 Inch Portland Orange Countdown Led Module	156.000 EACH	_____.	_____.	_____.	_____.
0280	613202 F&I 3 Section Conventional Traf Sig Head On Pole(Lenses 12")	147.000 EACH	_____.	_____.	_____.	_____.
0285	613208 F&I 3 Section Conv Traf Sig Head On Mast Arm(Lenses 12")	65.000 EACH	_____.	_____.	_____.	_____.
0290	613214 F&I 3 Sec Optically Program Traf Head On Pole(Lenses 12")	9.000 EACH	_____.	_____.	_____.	_____.
0295	613220 F&I 3 Sec Optically Program Traf Head Mast Arm(Lenses 12")	3.000 EACH	_____.	_____.	_____.	_____.
0300	613226 F&I 2 Sect Conventional Pedestrian Signal Head on Pole(12")	156.000 EACH	_____.	_____.	_____.	_____.



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			Dollars	Cents	Dollars	Cents
0305	613238 F&I Accessible Pedestrian Signal Unit w/Custom Messaging	156.000 EACH	_____.	_____.	_____.	_____.
0310	613240 F&I Accessible Pedestrian Signal Control Unit	156.000 EACH	_____.	_____.	_____.	_____.
0315	613322 F&I Traffic Signal Controller And Cabinet	13.000 EACH	_____.	_____.	_____.	_____.
0320	613334 Remove Abandoned Traff Signal Controller Cabinet Foundation	13.000 EACH	_____.	_____.	_____.	_____.
0325	613338 Remove Traffic Signal Pole And Traffic Signal Equipment	13.000 EACH	_____.	_____.	_____.	_____.
0330	613340 Remove Traffic Signal Controller And Cabinet	13.000 EACH	_____.	_____.	_____.	_____.
0335	613344 Relocate Any Steel Traf Sig Ple From 1 Foundation to Another	40.000 EACH	_____.	_____.	_____.	_____.
0340	613348 Rel ExistTrafSig Controller Cab Onto Temp Prtble Concrete Bs	13.000 EACH	_____.	_____.	_____.	_____.
0345	613350 Rel Any Size Traf Sig Head(12" LED Mod)OntoTemp Pole Assem	72.000 EACH	_____.	_____.	_____.	_____.
0350	613352 Rel Any Pedest SigHead(12" LED Modules)Onto Temp Pole Asmbly	88.000 EACH	_____.	_____.	_____.	_____.
0355	613380 Install 36"X36"LED Electronic Sign On Any Pole	3.000 EACH	_____.	_____.	_____.	_____.



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			Dollars	Cents	Dollars	Cents
0360	614038 Furnish and Install Spread Footer	30.000 EACH	_____	_____	_____	_____
0365	614078 F&I 36" x 36" x 36" Manhole	58.000 EACH	_____	_____	_____	_____
0370	614084 F&I 48" x 48" x 48" Manhole	63.000 EACH	_____	_____	_____	_____
0375	614122 F&I 1-2" Schedule 40 Rigid PVC Conduit	1,510.000 LF	_____	_____	_____	_____
0380	614198 F&I 6-4" Schedule 40 Rigid PVC Conduits (duct bank)	6,209.000 LF	_____	_____	_____	_____
0385	614200 F&I 6-4" and 1-2" Schedule 40 Rigid PVC Conduits (duct bank)	4,517.000 LF	_____	_____	_____	_____
0390	614202 F&I 6-4" and 2-2" Schedule 40 Rigid PVC Conduits (duct bank)	402.000 LF	_____	_____	_____	_____
0395	614210 F&I 2-4" Schedule 40 Rigid PVC Conduit (duct bank)	105.000 LF	_____	_____	_____	_____
0400	614216 F&I 1-4" Schedule 40 Rigid PVC Conduit (Supp to duct bank)	606.000 LF	_____	_____	_____	_____
0405	614230 F&I #10 Stranded Wire	32,062.000 LF	_____	_____	_____	_____
0410	614290 F&I #0000 Stranded Wire	32,843.000 LF	_____	_____	_____	_____
0415	614332 F&I #8 Stranded Ground Wire	17,823.000 LF	_____	_____	_____	_____



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			Dollars	Cents	Dollars	Cents
0420	614350 F&I #2 Stranded Ground Wire	10,955.000 LF	_____.	_____.	_____.	_____.
0425	614374 Remove Conductors in Conduits	30,893.000 LF	_____.	_____.	_____.	_____.
0430	614424 F&I 15" B.C. Street Light Foundation	201.000 EACH	_____.	_____.	_____.	_____.
0435	614430 Remove Street Light Pole Foundation Remove foundation any pole	193.000 EACH	_____.	_____.	_____.	_____.
0440	614452 F&I 15" B.C Steel Transformer Base	260.000 EACH	_____.	_____.	_____.	_____.
0445	614488 F&I #16 Cast Iron Pole	2.000 EACH	_____.	_____.	_____.	_____.
0450	614494 Remove #16 Cast Iron Street Light Pole	2.000 EACH	_____.	_____.	_____.	_____.
0455	614528 F&I Twin 20 Steel/Cast Iron Pole	73.000 EACH	_____.	_____.	_____.	_____.
0460	614534 Remove Twin 20 Steel/Cast Iron/Aluminum Street Light Pole	6.000 EACH	_____.	_____.	_____.	_____.
0465	614544 F&I 28.5' Steel Pendant Pole with up to 8' Arm	86.000 EACH	_____.	_____.	_____.	_____.
0470	614568 Remove Pendant Pole 30 ft. Height or Less	49.000 EACH	_____.	_____.	_____.	_____.
0475	614696 Remove Fixture/Arm from Structure	5.000 EACH	_____.	_____.	_____.	_____.



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			Dollars	Cents	Dollars	Cents
0480	614806 F&I 100 W Post-top LED Fixture w/Washington Globe&photocell	158.000 EACH	_____	_____	_____	_____
0485	614854 Remove 118 Plastic Globe	10.000 EACH	_____	_____	_____	_____
0490	614993 Electrical Work Special Item -EACH- Furnish and Install 150 Watt LED Teardrop fixture complete with photocell	86.000 EACH	_____	_____	_____	_____
0495	614993 Electrical Work Special Item -EACH- FURNISH AND INSTALL BOLT ON UPS W/INVERTER CHARGER & BATTERY BANK	13.000 EACH	_____	_____	_____	_____
0500	614999 Payment to PEPCO for Connection, Disconnection, Inspection	LUMP SUM	LUMP SUM		86,378.40	
0505	616022 Traffic Sign Panels	670.000 SF	_____	_____	_____	_____
0510	612993 Traffic Control Special Item - EACH - Ethernet over copper ModelNo684D Or approved equal	30.000 EACH	_____	_____	_____	_____
0515	612993 Traffic Control Special Item - EACH - Field hardened layer 2 switch with 4 Fiber ports	3.000 EACH	_____	_____	_____	_____
0520	612993 Traffic Control Special Item - EACH - DDOT's standard modular fiber termination	30.000 EACH	_____	_____	_____	_____
0525	612993 Traffic Control Special Item - EACH - 3 foot LC to LC fiber patch cable	62.000 EACH	_____	_____	_____	_____



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Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price		Bid Amount	
			Dollars	Cents	Dollars	Cents
0530	612993 Traffic Control Special Item - EACH - LC fiber tranceiver	63.000 EACH	_____.	_____	_____.	_____
Section: 0001			Total:		_____.	
			Total Bid:		_____.	

Pennsylvania Avenue, SE, 2nd Street to 14th Street Streetlight Upgrade – Attendees Listing

PRE-BID MEETING FOR PENNSYLVANIA AVENUE, SE, 2ND STREET TO 14TH STREETLIGHT UPGRADE

THURSDAY, SEPTEMBER 10, 2020 2:00PM – 3:00PM

ATTENDEE LISTING

NAME	COMPANY	EMAIL
Manzur Elahi	DCI	melahi@dciengineers.com
Damien Mayo	OCR/DDOT	damien.mayo@dc.gov
Ramesh Sreerama	DCI	rsreerama@dciengineers.com
Philip Maxon	Anchor Construction	pmaxon@anchorconst.com
Pavan Velpuri	DCI	pvelpuri@dciengineers.com
Andrea Jackson	OCR/DDOT	andrea.jackson@dc.gov
Debbie Jackson	OCP	debbie.jackson1@dc.gov
Ellery Williams	OCP/CACI	ellery.williams@dc.gov
Margaret Platek	OCP	Margaret.platek@dc.gov
Abdullahi Mohamed	DDOT	abdullahi.mohamed@ddot.gov
Tom Fulton	DDOT	thomas.fulton@dc.gov

d. Corrected K.2 Bid Form (Q#17), #21

K.2

BID FORM

BID FORM
(CONSTRUCTION CONTRACT)

Read Instructions to Bidders (See Standard Contract Provisions as amended)	Invitation No.: DCKA-2020-B-0045 Issue Date:
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TO: CONTRACTING OFFICER, GOVERNMENT OF THE DISTRICT OF COLUMBIA
In compliance with above Invitation, the undersigned proposes to furnish all plant, labor and materials and perform required work per provisions as set forth in the Standard Contract Provisions, as amended, specifications, addenda, drawings, and at the prices named in the Schedule of Prices for:

PROJECT TITLE: Pennsylvania Ave Streetlight Upgrade

The undersigned agrees that if he is awarded the Contract within 90 calendar days after bid opening date and he is notified thereof, he will within 10 days after the prescribed forms are forwarded for execution, or within any authorized extension of time, execute and deliver a Contract on Form No. DC 2640-6 and furnish performance and payment bonds on Form No. DC 2640-7 and Form No. DC 2640-8 with good and sufficient survey; and that if he falls or refuses, required bid guaranty shall be applied as specified in Instructions to Bidders.

Undersigned acknowledges receipt of the following addenda. Failure to acknowledge receipt of all addenda may result in rejection of bid.

Addendum No.	1	2	3	4	5	6	7
Received							

Enclosed is bid guaranty consisting of 5% of the total bid Bid Bond Certified Check Other
Name of bidder must be shown in full if an individual; and if a partnership, full names of all partners must be shown. If bidder is a corporation, impress corporate seal and furnish name of State where incorporated. If joint venture, all parties must sign.

Bidder represents that he operates as an individual, joint venture, corporation
Incorporated in State of _____ Telephone No. _____

Name of Bidder (Type or print)	Corporate Seal
DUNS or RUBS NO _____	
Business Address (Type or print)	
By (Signature in ink)	Attest
Title of Person Signing	Title of Person Attesting

Bid, guaranty, etc., must be marked and addressed as follows:

Mark envelope in upper left corner as follows: Invitation No.: DCKA-2020-B-0045 To be opened (date): Envelopes available from Office of Contracting and Procurement	Address as follows: Office of Contracting and Procurement Bid Room 55 M Street SE 4 th Floor Washington, DC 20003
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e. Updated J.4 Employee Training Requirements (Q#24

J.4

EMPLOYEE TRAINING REQUIREMENTS

EMPLOYEE TRAINING REQUIREMENTS

23 CFR, Part 230, Subpart A, Appendix B applies to this contract, except as modified below. Prior to commencing, the contractor shall submit to the DC Department of Transportation Contracting Officer for approval, the number of trainees to be trained in each selected and classification and providing the prospective trainee's home addresses and social security number(s). The number of trainees to be trained under this contract is (3) shall be in the following classifications:

<u>CRAFT</u>	<u>NUMBER</u>
Traffic Control (1)	600 hours
Laborer (1)	1,040 hours
Concrete Technician (1)	520 hours
Electrical Technician (2)	520 hours
<u>Total 5 OJT trainees and 3,200 required OJT hours</u>	

The minimum length and type of training for each classification will be as established in the training program selected by the contractor and approved by the Contracting Officer, DC Department of Transportation and the Division Engineer, Federal Highway Administration.

For purposes of this requirement, a trainee is defined as a person who is registered and receiving on-the-job training in a construction or construction management occupation under a program which has been approved and certified in advance by the U.S. Department of Labor, Employment and Training Administration or by the Division Engineer, Federal Highway Administration.

A trainee differs from an apprentice in that an apprentice means (1) a person employed and individually registered in a bona fide apprenticeship program registered with the U.S. Department of Labor, Employment and Training Administration, Bureau of Apprenticeship and Training, or with a State Apprenticeship Agency recognized by the Bureau, or (2) a person in the first 90 days of probationary employment in an apprenticeship program, who is not individually registered in the program, but who has been certified by the Bureau of Apprenticeship and Training or a State Apprenticeship Agency (where applicable) to be eligible for probationary employment as an apprentice.

Contractors are encouraged to utilize the resources of the District of Columbia, Department of Employment Services, Employer Services Center and the District of Columbia, Department of Transportation to recruit and hire prospective trainees. Prospective trainees who are not enrolled in any approved program may be selected from among the contractor's construction

workforce, subject to the approval of the Contracting Officer.

The District Department of Transportation-Construction Contract Branch will monitor your training program closely during the life of the project to ensure that the training program is being administered in compliance

with the applicable Federal regulations and that the assigned number of trainees are enrolled and receiving training. Contractors are reimbursed only for training actually given and carefully documented by the Project Engineer and verified by the District Department of Transportation-Construction Contract Branch.

APPRENTICESHIP PROGRAM:

All prime Contractors and subcontractors who contract with the District of Columbia Government to perform construction or renovation work with a single contract or cumulative contracts of at least \$500,000.00, let within a twelve (12) month period, shall be required to register an apprenticeship program with the District of Columbia Apprenticeship Council. (D.C. Code 36-409((1981))).

APPRENTICES AND TRAINEES:

This S.P. supplements APPRENTICES AND TRAINEES, ARTICLE 3 of STANDARD CONTRACT PROVISIONS FOR USE WITH SPECIFICATIONS FOR DISTRICT GOVERNMENT CONSTRUCTION PROJECTS, DATED 1973; as amended by the Transmittal Sheet No. 5.

- (1) In Items A, B and C, except for subparagraph CS, wherever the words "Apprenticeship Council, D.C. Department of Labor" appear, add immediately after: "and/or U.S. Department of Labor."
- (2) In Item B. Trainees, add the following: "Training programs approved under the requirements of Article IV; Section 4 and 5 of Required Contract Provisions, Federal Aid Construction Contracts (Form FHWA-1273) will satisfy the requirements of this item.

The contractor and all subcontractors shall furnish to the Contracting Officer written evidence of the registration of his/her program and apprentices as well as the appropriate ratios and wage rates for the areas of construction, prior to using any apprentice on the contract.

(Special provision) DDOT traffic cabinet general fiber with Copper twisted pair communications specification

DDOT TRAFFIC CABINET GENERAL FIBER WITH COPPER TWISTED PAIR COMMUNICATIONS SPECIFICATION

The purpose of this specifications is to detail requirements for communications between local traffic signal cabinets.

This requirement is intended for the District of Columbia’s traffic signal system, where fiber optic communications may be introduced and interfaced with existing copper twisted pair cable. This document is to be attached to all traffic signal designs as a special provision when fiber optic communications is required, and shall supplement DDOT’s standards and specifications (2013).

Quantities specific to each particular design shall also be attached as a special provision.

J.18.1 Covered in this document:

- a. 12 strand single mode fiber optic cable
- b. Actelis model MS684D or approved equal (see Specification in section 2.2 of this document)
- c. Fiber SFP transceivers
- d. Modular splice enclosure
- e. LC to LC fiber patch cord
- f. Hardened network switch

Note: please see attached line item list with quantities.

J.18.1.1 FURNISH AND INSTALL MODULAR FIBER OPTIC SPLICE ENCLOSURE

Modular splice enclosure shall be Belden® MIPP™, modular industrial patch panel, or approved equal.

J.18.1.1.1. Modular industrial panel shall be din rail mountable

J.18.1.1.2. Modular industrial panel shall be expandable based on number of fiber strands, and number of fiber cables

J.18.1.1.3. Modular industrial panel shall utilize LC type panel mounted fiber connectors.

J.18.1.1.4. Modular industrial panel shall include connectors with labeled and color coded pigtails (factory assembled)

J.18.1.1.4.1. All connections to the main fiber cables shall be via fusion splicing.

J.18.1.1.5. All fiber patching and termination shall be performed under the direction of DDOT ITS personnel.

J.18.1.1.6. All network devices supplied with SFP ports shall include SFP transceivers installed in each port.

J.18.1.1.6.1. All SFP transceivers shall be compatible with DDOT’s current and future installed Actelis Networks® equipment.

J.18.1.1.7. All fiber optic connectors SFP transceivers, and patch cables shall conform to LC

(Special provision) DDOT traffic cabinet general fiber with Copper twisted pair communications specification

J.18.1.1.8. Contractor shall test all strands within all fiber optic cable runs.

J.18.1.1.8.1. Contractor shall submit an expected loss budget based on number of splices and connections.

J.18.1.1.8.2. Contractor shall test all cables and strands end to end between splice enclosures.

J.18.1.1.8.3. Test shall be performed to industry standards

J.18.1.1.8.4. Test results and actual loss shall be documented.

J.18.1.1.8.5. All fiber testing shall be performed with DDOT staff present.

J.18.2. Furnish and install 12 strand Fiber optic cable.

J.18.2.1. All Fiber optic cable installation shall be install under the oversight of DDOT's traffic signal and ITS personnel.

J.18.2.2. All cable shall be installed between cabinets without any underground, or manhole splices.

J.18.2.3. The work consists of providing outdoor outside plant armored stranded fiber single mode fiber optic cable in conformance with the below cable specifications. Cable shall be installed as stated on the contract drawings and shall provide sufficient slack at each junction box, manhole, t-base, and electronic device.

J.18.2.4. Cable shall be pulled to ensure minimum stress on the cable and be run continuously with no splices between each electronic device.

J.18.2.5. Work shall consist of labeling the cable per DDOT's requirements Contractor shall be responsible testing each cable run with a TDR testing each and provide the results to DDOT.

J.18.2.6. Cable installation work shall conform to manufacturer's recommendation.

J.18.2.7. Contractor shall submit a fiber optic cable installation procedure for DDOT approval.

J.18.2.8. Contractor shall submit a fiber optic cable testing and acceptance procedure for DDOT approval All cable installation work shall conform to DDOT's standards and specifications (2013).

J.18.2.9. All fiber terminations shall be via fusion splice. Fiber optic cable may only be spliced to factory assembled panel mount LC connectors.

J.18.2.10. Fiber optic strand color code shall conform to industry standards and shall be identified up to the back of any connector that main trunk has been spliced to.

J.18.2.11. All fiber optic cable shall be home runs with no underground splice, except in some rare cases as directed by DDOT.

(Special provision) DDOT traffic cabinet general fiber with Copper twisted pair communications specification

J.18.2.12. 12-fiber 9/125 μ m (OS1/OS2) singlemode outside plant armored 12 strand stranded cable.

J.18.3. Field hardened layer 2 network switch with 4 SFP ports

J.18.3.1. Layer 2, field hardened switch shall be ComNet, model CNGE8FX4TX4MS Managed Ethernet Switch or approved equal.

J.18.3.2. Layer 2, field hardened switch shall include (4) 100/1000 BASE-TX and (4) 10/100/1000FX combo ports.

J.18.3.3. Layer 2, field hardened switch shall conform to Ethernet IEEE 802.3 protocol.

J.18.3.4. Layer 2, field hardened switch shall include auto-negotiating and auto-MDI/MDIX features.

J.18.3.5. Layer 2, field hardened switch shall be din rail mounted in the traffic cabinet.

J.18.3.6. Layer 2, field hardened switch shall include 4 LC SFP modules

J.18.3.7 Layer 2, field hardened switch shall meet NEMA TS-1/TS-2 and the Caltrans Specification for Traffic Signal Control Equipment.

J.18.3.8 Layer 2, field hardened switch shall conform to Extended ambient operating temperature range:-40° C to +75° C (Functional to 85°C)

J.18.3.9 Layer 2, field hardened switch shall include a din rail mounted power supply and shall have Redundant power supply compatibility.

J.18.3.10. Layer 2, field hardened switch shall include the following features:

J.18.3.10.1. Management: SNMP v1 v2c, v3/ Web/Telnet/CLI/NS-View Management

J.18.3.10.2. VLAN :Port Based VLAN IEEE 802.1Q Tag VLAN (256 entries)/ VLAN ID (Up to 4K, VLAN ID can be assigned from 1 to 4096.) GVRP (256 Groups) Double Tag VLAN (Q in Q)

J.18.3.10.3. IGMP: Support IGMP snooping v1,v2 256 multicast groups and IGMP query

J.18.4. Specification of Ethernet over copper devices

J.18.4.1. Ethernet access device (EAD) shall be installed at each camera cabinet location.

J.18.4.1.1. EAD shall be Actelis model ML624 or approved equal.

J.18.4.1.2. EAD shall be cable of connecting and bonding to 4 twisted pairs simultaneously.

J.18.4.1.3. EAD shall be capable of up to 100 Mbps;10/100base-T (symmetrical) over bonded twisted pairs.

(Special provision) DDOT traffic cabinet general fiber with Copper twisted pair communications specification

J.18.4.1.4. EAD shall include 4 Ethernet ports and one SFP fiber ports.

J.18.4.1.5. EAD shall be capable of remote management via DDOT's current MetaASSIST software.

J.18.4.1.6. EAD devices shall operate at -40 to +74 Degree Celsius

J.18.4.1.7. EAD devices shall operate at up to 95% relative humidity.

J.18.4.2. Ethernet over copper add-drop unit shall be installed at designated camera repeater locations.

J.18.4.2.1. Add-drop devices shall be Actelis model MS684D or approved equal.

J.18.4.2.2. Add-drop device shall be capable of receiving data over one or 2 bonded copper pairs.

J.18.4.2.3. Add-drop device shall be capable of transmitting data over one or 2 bonded copper pairs.

J.18.4.2.4. Add-drop device shall include 6,10/100Base-T Ethernet ports

J.18.4.2.5. Add-drop device shall include 2, 100/1000Base-FX, fiber ports

J.18.4.2.6. Add-drop device shall be compatible with Ethernet access device (EAD) specified in section 2.1.

J.18.4.2.7. Add-drop devices shall be capable of remote management via DDOT's current MetaASSIST software.

J.18.4.2.8. Add-drop devices shall operate at -40 to +74 Degree Celsius

J.18.4.2.9. Add-drop device shall operate at up to 95% relative humidity

J.18.4.3. Gigabit Ethernet Managed Switch

J.18.4.3.1. Gigabit Ethernet Managed Switch shall be The ML510D Industrial Ethernet Switches from Actelis Networks® or approved equal.

J.18.4.3.2 Gigabit Ethernet Managed Switch shall be Equipped with at least 5 10/100/1000Base-T Ethernet interfaces and at least four 100/1000Base-FX Small Form Factor (SFP) ports

J.18.4.3.3. Gigabit Ethernet Managed Switch shall provides 802.1q VLAN-aware wire-speed bridging, double tagging (VLAN stacking) for end-user VLAN transparency.

J.18.4.3.3.1. L2 (Ethernet priority) classification with eight queues per port, fast healing rings, MSTP/RSTP/STP.

J.18.4.3.3.2. Dynamic Link Aggregation.

J.18.4.3.3.3. bandwidth monitoring.

J.18.4.3.3.4. Multicast/Broadcast limiting.

J.18.4.3.3.5. Support IGMP bandwidth snooping for video distribution applications. Manageable through Actelis' MetaASSIST

J.18.4.4. Gigabit Ethernet Managed Switch, Environmental

J.18.4.4.1. Operating Temp. -40° to +75°C .

J.18.4.4.2. Relative humidity: Up to 95%, non condensing

J.18.4.5. Ethernet over copper aggregation switch shall be installed in the server room at the TMC (when required)

J.18.4.5.1. Aggregation switch shall be Actelis model ML2300 Bundle or approved equal(including associated interface cards and cables..

J.18.4.5.2. Aggregation switch shall be compatible with devices specified in sections 2 and sections 2.2.

J.18.4.5.3. Aggregation switch shall include primary redundant power supplies.

J.18.4.5.4. Aggregation switch shall include primary central processing units.

J.18.4.5.4.1. Central processing cards shall include a minimum 2 100/1000Base-T LAN ports.

J.18.4.5.4.2. Central processing cards shall include a minimum 2 100/1000Base-T Fiber ports.

J.18.4.5.5. Aggregation switch shall include 4 field communications cards

J.18.4.5.5.1. Field communications cards shall be capable of communications with a minimum of 32 copper pairs per card.

J.18.4.5.5.2. Field communications cards shall be capable of up to 100Mbps Add-drop device shall include 2, 100/1000Base-FX, fiber ports.

J.18.4.5.6. Aggregation switch shall include compatible, 100 foot interface cable for connected to up to 128 copper pairs.

J.18.4.5.6.1. Interface cable shall be configured to communicate

J.18.4.5.7. Aggregation switch shall be capable of remote management via DDOT's current MetaASSIST software.

J.18.4.5.7.1. Aggregation switch shall operate at -40 to +74 Degree Celsius

(Special provision) DDOT traffic cabinet general fiber with Copper twisted pair communications specification

J.18.4.5.7.2. Aggregation switch shall operate at up to 95% relative humidity.

J.18.4.5.7.3. Aggregation switch chassis shall be 19 inch EIC rack mountable