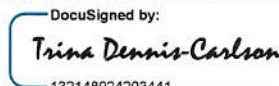
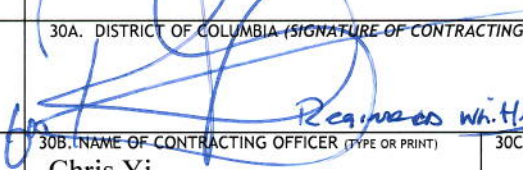


GOVERNMENT OF THE DISTRICT OF COLUMBIA TASK ORDER/DELIVERY ORDER FOR SERVICES OFFEROR TO COMPLETE BLOCKS 18 & 29				1. REQUISITION NUMBER RQ990134, RQ990190, RQ991006, RQ991734		PAGE 1 of 30	
2. TASK ORDER AGREEMENT NO. CW62583		3. Award/Effective Date See 30C. below		4. CONTRACT NUMBER CW30750		5. SOLICITATION NUMBER Doc388263	
7. FOR SOLICITATION INFORMATION CONTACT: Contract Specialist Email: Alisha.wright@dc.gov		A. NAME Alisha Wright		B. TELEPHONE (No Collect Calls) (202) 724-2017		6. SOLICITATION ISSUE DATE 7/5/18	
9. ISSUED BY Office of Contracting and Procurement Information Technology Division 441 4 TH Street, NW Suite 700 South Washington, DC 20001				10. THIS ACQUISITION IS <input type="checkbox"/> UNRESTRICTED <input type="checkbox"/> SET ASIDE %FOR <input type="checkbox"/> SMALL BUSINESS <input type="checkbox"/> SMALL DISADV. BUS. <input type="checkbox"/> COG Rider <input type="checkbox"/> WSCA-NASPO Master Agreement AR233/CW30750 SIC: SIZE STANDARD:		11. DELIVERY FOR FOB DESTINATION UNLESS BLOCK IS MARKED <input type="checkbox"/> N/A <input type="checkbox"/> 13. RESERVED 14. METHOD OF SOLICITATION <input checked="" type="checkbox"/> RFTOP <input type="checkbox"/> RFQ <input type="checkbox"/> IFB <input type="checkbox"/> RFP <input type="checkbox"/> 2-STEP	
15. CONTRACTOR / OFFEROR Presidio Networked Solutions, LLC 8161 Maple Lawn Blvd., Suite 150 Fulton, MD 20759 POC: Nathan Bishop, Account Manager Telephone: (301) 313-2029 Email: nbishop@PRESIDIO.com				16. PAYMENT WILL BE MADE BY Office of the Chief Technology Officer Attn: Accounts Payable 200 I Street, SE Washington, DC 20003 Telephone: (202) 727-2277			
17A DUNS NO. 15B TAX ID NO.				18. ADMINISTERED BY Office of the Chief Technology Officer DC-NET 200 I Street, SE Washington, DC 20003			
17. DELIVER TO OCTO / DC-Net Attn: Kevin Catalan 2900 V Street, NE Washington, DC 20018 (o) 202-715-3810							
18A. CHECK IF REMITTANCE IS DIFFERENT AND PUT SUCH ADDRESS IN OFFER <input type="checkbox"/>				18B. SUBMIT INVOICES TO ADDRESS SHOWN IN BLOCK 16 UNLESS BLOCK BELOW IS CHECKED <input type="checkbox"/> SEE ADDENDUM			
19 ITEM NO.	20 SCHEDULE OF SUPPLIES/SERVICES			21 QUANTITY	22 UNIT	23 UNIT PRICE	24 AMOUNT
1	Cisco Network Equipment			1	Lot		\$1,741,322.16
25. ACCOUNTING AND APPROPRIATION DATA PURCHASE ORDER NO.				26. TOTAL AWARD (FOR GOVT. USE ONLY) \$1,741,322.16			
27. CONTRACTOR IS REQUIRED TO SIGN THIS DOCUMENT AND RETURN ONE COPY TO THE ISSUING OFFICE. CONTRACTOR AGREES TO FURNISH AND DELIVER ALL ITEMS SET FORTH OR OTHERWISE IDENTIFIED ABOVE AND ON ANY ADDITIONAL PAGES SUBJECT TO THE TERMS AND CONDITIONS SPECIFIED HEREIN. THIS ORDER IS ISSUED SUBJECT TO THE TERMS AND CONDITIONS OF WSCA-NASPO MASTER AGREEMENT NO. AR233/CW30750 CONTRACT IDENTIFIED IN BLOCK 4.				28. THE FOLLOWING DOCUMENTS ARE INCORPORATED BY REFERENCE INTO THIS TASK ORDER IN THE FOLLOWING PRIORITY: THIS TASK ORDER IS SUBJECT TO THE TERMS AND CONDITIONS OF THE CONTRACT IDENTIFIED IN BLOCK 4.			
29A. SIGNATURE OF OFFEROR / CONTRACTOR DocuSigned by:  132148924203441				30A. DISTRICT OF COLUMBIA (SIGNATURE OF CONTRACTING OFFICER)  Requiescent White			
29B. NAME AND TITLE OF SIGNER (TYPE OR PRINT) Trina Dennis Carlson, Director-Contracts		29C. DATE SIGNED 07/13/2018		30B. NAME OF CONTRACTING OFFICER (TYPE OR PRINT) Chris Yi Contracting Officer		30C. DATE SIGNED	

1. SERVICES REQUIRED

The District of Columbia Government (District) Office of Contracting and Procurement (OCP), on behalf of the Office of the Chief Technology Officer (OCTO), award Presidio Networked Solutions, LLC located at 8161 Maple Lawn Blvd., Suite 150, Fulton, MD 20759, hereby referred to as the Contractor, a contract to provide Cisco routers for optimizing cloud services interconnection, spine and leaf SDN switches for data center optimization, and switches to support upgrade/renovation work at Eastern and Anacostia schools.

2. PRICE SCHEDULE

The District awards a fixed-price contract type in accordance with 27 DCMR Chapter 24.

See Attachment B

3. TERM OF CONTRACT

The term of the contract shall be from the date of award specified on the cover page of this contract through September 30, 2018.

4. OPTION TO EXTEND THE TERM OF THE CONTRACT

Not Applicable

5. CONTRACTING OFFICER (CO)

Contracts will be entered into and signed on behalf of the District only by contracting officers. The contact information for the Contracting Officer is:

Chris Yi
Office of Contracting and Procurement
Servicing: Office of Chief Technology Officer
200 I Street, S.E.; 5th Floor
Washington, DC 20003
Telephone: (202) 724-5069
Email: chris.yi@dc.gov

5.1 AUTHORIZED CHANGES BY THE CONTRACTING OFFICER

5.1.1 The CO is the only person authorized to approve changes in any of the requirements of this contract.

5.1.2 The Contractor shall not comply with any order, directive or request that changes or modifies the requirements of this contract, unless issued in writing and signed by the CO.

5.1.3 In the event the Contractor effects any change at the instruction or request of any person other than the CO, the change will be considered to have been made without authority and no adjustment will be made in the contract price to cover any cost increase incurred as a result thereof.

6. CONTRACTS ADMINISTRATOR (CA)

6.1 The CA is responsible for general administration of the contract and advising the CO as to the Contractor's compliance or noncompliance with the contract. The CA has the responsibility of ensuring the work conforms to the requirements of the contract and such other responsibilities and authorities as may be specified in the contract. These include:

6.1.1 Keeping the CO fully informed of any technical or contractual difficulties encountered during the performance period and advising the CO of any potential problem areas under the contract;

6.1.2 Coordinating site entry for Contractor personnel, if applicable;

6.1.3 Reviewing invoices for completed work and recommending approval by the CO if the Contractor's costs are consistent with the negotiated amounts and progress is satisfactory and commensurate with the rate of expenditure;

6.1.4 Reviewing and approving invoices for deliverables to ensure receipt of goods and services. This includes the timely processing of invoices and vouchers in accordance with the District's payment provisions; and

6.1.5 Maintaining a file that includes all contract correspondence, modifications, records of inspections (site, data, equipment) and invoice or vouchers.

6.2 The address and telephone number of the CA is:

Philip Haka
Data Center Infrastructure
Office of the Chief Technology Officer
3919 Benning Road, NE
Washington, DC 20019
Telephone: 202-715-3729 / 202-421-0435
E-mail: philip.haka@dc.gov

6.3 The CA shall NOT have the authority to:

1. Award, agree to, or sign any contract, delivery order or task order. Only the CO shall make contractual agreements, commitments or modifications;
2. Grant deviations from or waive any of the terms and conditions of the contract;
3. Increase the dollar limit of the contract or authorize work beyond the dollar limit of the contract;
4. Authorize the expenditure of funds by the Contractor;
5. Change the period of performance; or
6. Authorize the use of District property, except as specified under the contract.

6.4 The Contractor will be fully responsible for any changes not authorized in advance, in writing, by the CO; may be denied compensation or other relief for any additional work performed that is not so authorized; and may also be required, at no additional cost to the District, to take all corrective action necessitated by reason of the unauthorized changes.

7. ORDERING

- 7.1** Any supplies and services to be furnished under this contract shall be ordered by issuance of delivery order or task order by the Contracting Officer specified in Section 5 above. Such orders may be issued during the term of this contract.
- 7.2** All delivery orders or task orders are subject to the terms and conditions of this contract. In the event of a conflict between a delivery order or task order and this contract, the contract shall control.
- 7.3** If mailed, a delivery order or task order is considered “issued” when the District deposits the order in the mail. Orders may be issued by facsimile or by electronic commerce methods.

8. INVOICE PAYMENT

- 8.1** The District will make payments to the Contractor, upon the submission of proper invoices, at the prices stipulated in this contract, for supplies delivered and accepted or services performed and accepted, less any discounts, allowances or adjustments provided for in this contract.
- 8.2** The District will pay the Contractor on or before the 30th day after receiving a proper invoice from the Contractor.
- 8.3** The District follows a specific policy for services related to software/hardware (SW/HW) maintenance/licenses and support services. These services must be provided and billed within the District’s fiscal year (October 1 to September 30). Invoices should only cover one fiscal year and the District cannot be held liable for any such services not billed and paid with in the same fiscal year (October 1 to September 30). The District issues separate payment for each fiscal year for accounting and budgetary reasons.
- 8.4** By accepting this contract, for SW/HW maintenance/licenses and support services, you agree that a proper invoice constitutes a service period that covers ONLY October 1 through September 30.

9. INVOICE SUBMITTAL

- 9.1** The Contractor shall create and submit payment requests in an electronic format through the DC Vendor Portal, <https://vendorportal.dc.gov>.
- 9.2** The Contractor shall submit proper invoices on a monthly basis or as otherwise specified in Section 10.
- 9.3** To constitute a proper invoice, the Contractor shall enter all required information into the Portal after selecting the applicable purchase order number which is listed on the Contractor’s profile.

10. PAYMENT

10.1 PARTIAL PAYMENTS

Unless otherwise specified in this contract, payment will be made on partial deliveries of goods and services accepted by the District if:

- a) The amount due on the deliveries warrants it; or
- b) The Contractor requests it and the amount due on the deliveries is in accordance with the following:
 - "Payment will be made on completion and acceptance of each item for which the price is stated in the Schedule in Section B"; and
- c) Presentation of a properly executed invoice.

11. INCORPORATED DOCUMENTS

The Contractor shall perform under this task order pursuant to the terms of the following documents that are hereby incorporated by reference and made a part of this contract, which in the event of a conflict shall be resolved by giving precedence in the order of priority listed below:

- (1) This Task Order
- (2) Attachment A – Specifications/Work Statement
- (3) Attachment B – Price Schedule
- (4) Attachment C – Insurance

The following list of attachments is incorporated into the task order by reference:

- (5) WSCA-NASPO MASTER AGREEMENT NO. AR233/CW30750

ATTACHMENT A - SPECIFICATIONS/WORK STATEMENT

A.1 SCOPE

The Office of the Chief Technology Officer (OCTO) seeks a vendor to provide Cisco routers for optimizing cloud services interconnection, spine and leaf SDN switches for data center optimization, and switches to support upgrade/renovation work at Eastern and Anacostia schools.

A.2 APPLICABLE DOCUMENTS

Not Applicable

A.3 DEFINITIONS

SDN— Software Defined Network

A.4 BACKGROUND

OCTO operates several data centers within the District of Columbia Government supporting the District's varied agencies. With the increase utilization of cloud-based services additional routers are needed to optimize the handling of cloud services traffic; the SDN spine and leaf switching platform is to optimize the interconnection of servers located within the data centers to the optical backbone and local storage arrays. Eastern and Anacostia schools are undergoing renovation work and the switches are needed to support the expanded data requirements with these schools.

A.5 REQUIREMENTS

- A.5.1** The Contractor shall provide only the most current models, components and accessories in new, fully operational, factory sealed condition, with all applicable licenses.
- A.5.2** The Contractor shall warrant and represent that the equipment is eligible for the manufacturer's normal and extended warranty and support within the United States to Authorized Users.
- A.5.3** The Contractor shall not provide the District previously owned, damaged, refurbished, remanufactured, counterfeit, "gray market" or substitute third party items.
- A.5.4** The Contractor shall be an authorized reseller or manufacturer for Cisco products, and an approved WSCA-NASPO supplier for Master Agreement No. AR233.
- A.5.5** The Contractor shall deliver all materials to:

Attn: Kevin Catalan
OCTO / DC-Net
2900 V Street NE
Washington, DC 20018
(o) 202-715-3810

A.5.6 The Contractor shall provide Cisco routers for optimizing cloud services interconnection, spine and leaf SDN switches for data center optimization, and switches to include the following:

LINE	QTY	Part Number	Description
1	2	ASR-9906-TH-BUN	Cisco ASR 9906 TH Chassis bundle
2	2	CON-SNT-ASR9906T	Cisco SNTC-8X5XNBD ASR 9906 TH Chassis Bundle
3	2	ASR-9906-4P-KIT	Cisco ARE-9906 4 Post Mounting Kit
4	2	A9K-SLIDE-RAIL	Cisco ASR 9K Slide guide rail for 19" 4 post
5	4	A99-SFC-T	Cisco ASR 9906 Switch Fabric Card
6	4	CON-SNT-A99TSFCT	Cisco SNTC-8X5XNBD ASR 9906 Switch Fabric Card
7	4	ASR-9906-FAN	Cisco ASR 9906 Fan Tray
8	2	A9K-DC-PEM-V3	Cisco ASR9K DC Power Enclosure Module Version 3
9	8	PWR-4.4KW-DC-V3	Cisco 4.4KW DC Power Module Version 3
10	2	A9K-OTHER	Cisco ASR9000; Other Network Applications; For Tracking Only
11	2	A9K-SW-MANAGER-CD	Cisco ASR 9000 Software Manager CD
12	2	9906-LC-MSK-PKG	Cisco ASR9906 LC Packaging Box
13	6	A99-SFC-T	Cisco ASR 9906 Switch Fabric Card
14	6	CON-SNT-A99TSFCT	Cisco SNTC-8X5XNBD ASR 9906 Switch Fabric Card
15	4	A9K-LC-FILR-V2	Cisco A9K Line Card Slot Filler version 2
16	4	RSP-SE	Cisco ASR 9900 Route Switch Processor 880 SE for Bundles
17	4	CON-SNT-RSPRSSE9	Cisco SNTC-8X5XNBD ASR 9900 Route Switch Processor 880 SE f
18	2	XR-A9K-PXK9-06.04	Cisco IOS XR IP/MPLS Core Software 3DES
19	2	CON-SNT-XR9KPXK9	Cisco SNTC-8X5XNBD Cisco IOS XR IP/MPLS Core Software 3DES
20	4	A9K-24X10GE-1G-SE	Cisco ASR 9000 24-port 10GE & 1GE dual rate SE LC
21	4	CON-SNT-A9K14JSJ	Cisco SNTC-8X5XNBD ASR 9000 24-port 10GE 1GE dual rate SE
22	4	A9K-24P10G-AIP-SE	Cisco Adv IP License for full scale VRFs for 24-port 10G/1G SE LC

LINE	QTY	Part Number	Description
23	4	CON-SNT-A9K2G4P1	Cisco SNTC-8X5XNBD Adv IP License for full scale VRFs for 2
24	96	SFP-10G-SR-S=	Cisco 10GBASE-SR SFP Module, Enterprise-Class
25	1	ACI-C9364C-APIC-B1	Cisco ACI Bundle with 2 9364C and APIC
26	2	N9K-C9364C	Cisco Nexus 9K ACI & NX-OS Spine, 64p 40/100G QSFP28
27	2	CON-SNT-N9364C	Cisco SNTC-8X5XNBD Nexus 9K ACI NX-OS Spine, 64p 40 100G
28	2	N9K-C9300-RMK	Cisco Nexus 9K Fixed Rack Mount Kit
29	2	N9K-C9300-ACK	Cisco Nexus 9K Fixed Accessory Kit
30	6	NXA-FAN-160CFM-PI	Cisco Nexus Fan, 160CFM, port side intake
31	2	ACI-N9KDK9-13.0	Cisco Nexus 9500 or 9300 ACI Base Software NX-OS Rel 13.0
32	4	NXA-PDC-930W-PI	Cisco Nexus 9300W DC PS, Port-side Intake
33	4	CAB-48DC-40A-8AWG	Cisco C-Series -48VDC PSU Power Cord, 3.5M, 3 Wire, 8AWG, 40A
34	1	APIC-CLUSTER-L2	Cisco APIC Cluster - Large Configurations (>1000 Edge Ports)
35	1	CON-SSPNB-APIC3L2	Cisco SSPT PLUS2 8X5XNBD APIC Cluster - Large
36	3	APIC-SERVER-L2	Cisco APIC Appliance - Large Configurations (>1000 Edge Ports)
37	6	APIC-CPU-E52620D	Cisco 2.40 GHz E5-262 v3/85W 6C/15MB Cache/DDR4 1866MHz
38	3	APIC-MRAID12G	Avila Cisco 12G SAS Modular Raid Controller (Raid 0/1)
39	3	APIC-USBFLASHB-16GB	Cisco UCS Servers 16GB Flash USP Drive
40	3	APIC-TPM2-001	Cisco Trusted Platform Module
41	3	APIC-PSU-BLKPIU	Cisco Power Supply Blanking Panel for C220 M4 servers
42	3	APIC-SD200G12S3-EP	Cisco 200GB 2.5 inch Enterprise performance 6G SATA SSD
43	6	APIC-HD12TB10K12G	Cisco 1.2 TB 6G SAS 10K rpm SFF HDD
44	12	APIC-MR-1X322RV-A	Cisco 32GB DDR4-2400-MHz RDIMM/PC4-19200/dual rank/x4/1.2v
45	3	R2XX-RAID0	Cisco Enable RAID 0 Setting
46	3	APIC-DK9-3.0	Cisco APIC Base Software Release 3.0

LINE	QTY	Part Number	Description
47	3	APIC-PCIE-CSC-02	Cisco VIC 1225 Dual Port 10Gb SFP+ CNA
48	3	APIC-PSU1-770W	Cisco 770W power supply for UCS C-Series
49	3	CAB-9K12A-NA	Cisco Power Cord 125VAC 13A NEMA 5-15 Plug, North America
50	1	ACI-C9364C-APIC-B1	Cisco ACI Bundle with 2 9364C and APIC
51	2	N9K-C9364C	Cisco Nexus 9K ACI & NX-OS Spine, 64p 40/100G QSFP28
52	2	CON-SNT-N9364C	Cisco SNTC-8X5XNBD Nexus 9K ACI NX-OS Spine, 64p 40 100G
53	2	N9K-C9300-RMK	Cisco Nexus 9K Fixed Rack Mount Kit
54	2	N9K-C9300-ACK	Cisco Nexus 9K Fixed Accessory Kit
55	4	CAB-9K12A-NA	Cisco Power Cord 125VAC 13A NEMA 5-15 Plug, North America
56	4	NXA-PAC-1200W-PE	Cisco Nexus NEBs AC 1200W PSU Port Side Exhaust
57	6	NXA-FAN-160CFM-PE	Cisco Nexus Fan, 160CFM, port side exhaust airflow
58	2	ACI-N9KDK9-13.0	Cisco Nexus 9500 or 9300 ACI Base Software NX-OS Rel 13.0
59	1	APIC-CLUSTER-L2	Cisco APIC Cluster - Large Configurations (>1000 Edge Ports)
60	1	CON-SSPNB-APIC3L2	Cisco SSPT PLUS2 8X5XNBD APIC Cluster - Large
61	3	APIC-SERVER-L2	Cisco APIC Appliance - Large Configurations (>1000 Edge Ports)
62	6	APIC-CPU-E52620D	Cisco 2.40 GHz E5-262 v3/85W 6C/15MB Cache/DDR4 1866MHz
63	3	APIC-MRAID12G	Avila Cisco 12G SAS Modular Raid Controller (Raid 0/1)
64	3	APIC-USBFLASHB-16GB	Cisco UCS Servers 16GB Flash USP Drive
65	3	APIC-TPM2-001	Cisco Trusted Platform Module
66	3	APIC-PSU-BLKP1U	Cisco Power Supply Blanking Panel for C220 M4 servers
67	3	APIC-SD200G12S3-EP	Cisco 200GB 2.5 inch Enterprise performance 6G SATA SSD
68	6	APIC-HD12TB10K12G	Cisco 1.2 TB 6G SAS 10K rpm SFF HDD
69	12	APIC-MR-1X322RV-A	Cisco 32GB DDR4-2400-MHz RDIMM/PC4-19200/dual rank/x4/1.2v

LINE	QTY	Part Number	Description
70	3	R2XX-RAID0	Cisco Enable RAID 0 Setting
71	3	APIC-DK9-3.0	Cisco APIC Base Software Release 3.0
72	3	APIC-PCIE-CSC-02	Cisco VIC 1225 Dual Port 10Gb SFP+ CNA
73	3	APIC-PSU1-770W	Cisco 770W power supply for UCS C-Series
74	3	CAB-9K12A-NA	Cisco Power Cord 125VAC 13A NEMA 5-15 Plug, North America
75	8	N9K-C93180-FX-B24C	Cisco 2xNexus 93180YC-FX w/ 8x 100G Optics
76	8	CON-SNT-N93YCFXC	Cisco SNTC-8X5XNBD 2xNexus 93180YC-FX w/ 8x QSFP-100G-PSM4-
77	16	N9K-C93180YC-FX-B	Cisco Nexus 92108YC-FX bundle PID
78	16	CON-SNT-N93YCFXB	Cisco SNTC-8X5XNBD Nexus 93180YC-FX bun
79	16	N3K-C3064-ACC-KIT	Cisco Nexus 3K/9K Fixed Accessory Kit
80	16	ACI-N9KDK9-13.1.2	Cisco Nexus 9500 or 9300 ACI Base Software NX-OS Rel 13.1.2
81	32	CAB-9K12A-NA	Cisco Power Cord, 125VAC 13A NEMA 5-15 Plug, North America
82	16	NXXK-PICK-Bidi	Cisco PID to select QSFP-100G-SR-BD Optic in the bundle
83	64	QSFP-40/100-SRBD	Cisco 100G and 40GBASE SR-Bidi QSFP Transceiver, LC, 100m OM4 MMF
84	16	ACI-AD-XF	Cisco ACI Advantage SW license for a 10/25/40G+ Nexus 9K Leaf
85	16	CON-ECMU-ACIADXF	Cisco SWSS UPGRADES ACI Advantage SW License for a 10/25/40G
86	32	NXA-PAC-500W-PE	Cisco Nexus NEBs AC 500W PSU - Port Side Exhaust
87	64	NXA-FAN-30CFM-F	Cisco Nexus 2K/3K/9K Single Fan, port side exhaust airflow
88	2	N9K-C93180-FX-B24C	Cisco 2xNexus 93180YC-FX w/ 8x 100G Optics
89	2	CON-SNT-N93YCFXC	Cisco SNTC-8X5XNBD 2xNexus 93180YC-FX w/ 8x QSFP-100G-PSM4-
90	4	N9K-C93180YC-FX-B	Cisco Nexus 92108YC-FX bundle PID
91	4	CON-SNT-N93YCFXB	Cisco SNTC-8X5XNBD Nexus 93180YC-FX bun
92	4	N3K-C3064-ACC-KIT	Cisco Nexus 3K/9K Fixed Accessory Kit
93	4	NXXK-PICK-Bidi	Cisco PID to select QSFP-100G-SR-BD Optic in the bundle

LINE	QTY	Part Number	Description
94	16	QSFP-40/100-SRBD	Cisco 100G and 40GBASE SR-Bidi QSFP Transceiver, LC, 100m OM4 MMF
95	4	ACI-N9KDK9-13.1.2	Cisco Nexus 9500 or 9300 ACI Base Software NX-OS Rel 13.1.2
96	16	NXA-FAN-30CFM-B	Cisco Nexus 2K/3K/9K Single Fan, port side intake airflow
97	4	ACI-AD-XF	Cisco ACI Advantage SW license for a 10/25/40G+ Nexus 9K Leaf
98	4	CON-ECMU-ACIADXF	Cisco SWSS UPGRADES ACI Advantage SW License for a 10/25/40G
99	8	CAB-48DC-40A-8AWG	Cisco C-Series -48VDC PSU Power Cord, 3.5M, 3 Wire, 8AWG, 40A
100	8	NXA-PDC-930W-PI	Cisco Nexus 9K 930W DC PS, Port-side Intake
101	1	ACI-MSITE-VAPPL6=	Cisco ACI Multi-Site Virtual Appliance Promotional Offer
102	1	CON-ECMUS-MSVAPPL6	Cisco SOLN SUPP SWSS ACI Multi-Site Virtu
103	10	QSFP-100G-AOC2M=	Cisco 100GBASE QSFP Active Optical Cable, 2m
104	4	QSFP-100G-AOC20M=	Cisco 100GBASE QSFP Active Optical Cable, 20m
105	8	QSFP-100G-AOC25M=	Cisco 100GBASE QSFP Active Optical Cable, 25m
106	115	SFP-H25G-CU2M=	Cisco 25GBASE-CU SFP28 Cable 2 Meter
107	200	SFP-H25G-CU3M=	Cisco 25GBASE-CU SFP28 Cable 3 Meter
108	40	SFP-10G-SR-S	Cisco 10GBASE-SR SFP Module, Enterprise Class
109	4	WS-C4510R+E=	Cisco Catalyst 4500E 10 slot chassis for 48Gbps/slot, fan, no ps
110	4	CON-SSSNT-C4510R+E	Cisco SOLN SUPP 8X5XNBD Catalyst 4500E 10 slot chassis
111	40	C4K-SLOT-CVR-E	Cisco Catalyst 4500 E-Series Family Slot Cover
112	8	WS-C4KE-PS-CVR	Cisco 4500 E-Series Chassis Power Supply Blank Cover
113	12	WS-X45-SUP8-E=	Cisco Catalyst 4500 E-Series Supervisor 8-E
114	12	C4500E-IPB-S	Cisco Catalyst 4500E IPB license for Spare Supervisor
115	12	C4500E-LIC-PAK	Cisco PAK license SKU for spare sup configuration
116	15	WS-X4748-UPOE+E=	Cisco Catalyst 4500E 48-Port UPOE 10/100/1000(RJ45)
117	30	SFP-10G-SR-S=	Cisco 10GBASE-SR SFP Module, Enterprise Class

LINE	QTY	Part Number	Description
118	1	WS-C4507R+E=	Cisco Catalyst 4500E 7 slot chassis for 48Gbps/slot, fan, no ps
119	1	CON-SSSNT-C4507R+E	Cisco SOLN SUPP 8X5XNBD Catalyst 4500E 7 slot chassis
120	7	C4K-SLOT-CVR-E	Cisco Catalyst 4500 E-Series Family Slot Cover
121	2	WS-C4KE-PS-CVR	Cisco 4500 E-Series Chassis Power Supply Blank Cover
122	1	WS-C3850-12XS-S	Cisco Catalyst 3850 12 Port 10G Fiber Switch IP Base
123	1	S3850UK9-163	Cisco UNIVERSAL
124	1	PWR-C1-440WDC/2	Cisco 440W DC Config 1 secondary Power Supply
125	1	PWR-C1-440WDC	Cisco 440W DC Config 1 Power Supply
126	1	STACK-T1-50CM	Cisco 50CM Type 1 Stacking Cable
127	1	CAB-SPWR-30CM	Cisco Catalyst Stack Power Cable 30 CM
128	1	C3850-NM-BLANK	Cisco Catalyst 3850 Network Module Blank
129	4	GLC-LH-SMD=	Cisco 1000BASE-LX/LH SFP transceiver module MMF/SMF 1310nm DOM
130	4	SFP-10G-SR-S=	Cisco 10GBASE-SR SFP Module, Enterprise Class
131	4	GLC-TE=	Cisco 1000BASE-T SFP transceiver module for Category 5 copper wire
132	1	ISR4451-X/K9	Cisco ISR 4451 (4GE,3NIM,2SM,8g FLASH,4GDRAM)
133	1	SL-44-IPB-K9	Cisco IP Base License for Cisco ISR 4400 Series
134	1	SL-44-APP-K9	Cisco AppX License for Cisco ISR 4400 Series
135	1	SL-44-UC-K9	Cisco Unified Communication License for Cisco ISR 4400 Series
136	1	PVDM4-128	Cisco 128-channel DSP module
137	1	PWR-4450-DC	Cisco DC Power Supply for Cisco ISR 4450 and 4350
138	1	PWR-4450-DC/2	Cisco DC Power Supply (Secondary PS) for Cisco ISR 4450 and 4350
139	1	MEM-FLSH-8G	Cisco 8G eUSP Flash Memory for Cisco ISR 4430
140	1	MEM-4400-DP-2G	Cisco 2G DRAM (1 DIMM) for Cisco ISR 4400 Data Plane
141	1	WAAS-RTU-2500	Cisco WASS and VWAAS Right to Use for 2500 connections
142	1	CON-ECMU-WS2500	SWSS UPGRADES WAAS and VWAAS Right
143	1	PWR-	Cisco Cover for empty 2nd Power Supply slot on

LINE	QTY	Part Number	Description
		COVER-4450	Cisco ISR 4450
144	2	POE-COVER-4450	Cisco Cover for empty POE slot on Cisco ISR 4450
145	1	ISRWAAS-RTU-2500	Cisco ISRWAAS RTU for 2500 connections
146	2	NIM-BLANK	Cisco Blank faceplate for NIM slot on Cisco ISR 4400
147	1	MEM-44-4G	Cisco 4G DRAM (1 x 4G) for Cisco ISR 4400
148	2	SM-S-BLANK	Cisco Removable faceplate for SM slot on Cisco 2900, 3900, 4400 ISR
149	1	SISR4400UK9-316S	Cisco ISR 4400 Series IOS XE Universal
150	25	SRST-EP	Cisco SRST - 1 SRST Endpoint License
151	25	CON-ECMU-SRSTGTEP	Cisco SWSS UPGRADES Cisco SRST - 1 SRST Endpoint License
152	1	NIM-4FXO	Cisco 4-port Network Interface Module - FXO (universal)
153	1	WS-C3850-48F-S	Cisco Catalyst 3850 48 Port Full PoE IP Base
154	1	S3850UK9-163	Cisco UNIVERSAL
155	1	C3850-NM-4-1G	Cisco Catalyst 3850 4 x 1GE Network Module
156	1	CAB-TA-NA	Cisco North America AC Type A Power Cable
157	1	STACK-T1-50CM	Cisco 50CM Type 1 Stacking Cable
158	1	CAB-SPWR-30CM	Cisco Catalyst Stack Power Cable 30 CM
159	1	PWR-C1-BLANK	Cisco Config 1 Power Supply Blank
160	1	PWR-C1-1100WAC	Cisco 1100W AC Config 1 Power Supply
161	3	GLC-SX-MMD=	Cisco 1000BASE-SX SFP transceiver module, MMF, 850nm DOM
162	1	WS-X4712-SFP+E=	Cisco Catalyst 4500 E-Series 12-Port 10GbE (SFP+)
163	12	SFP-10G-SR-S=	Cisco 10GBASE-SR SFP Module, Enterprise-Class
164	2	WS-X4748-UPOE+E=	Cisco Catalyst 4500E 48-Port UPOE 10/100/1000(RJ45)
165	1	WS-C4510R+E=	Cisco Catalyst 4500E 10 slot chassis for 48Gbps/slot, fan, no ps
166	1	CON-SSSNT-C4510R+E	Cisco SOLN SUPP 8X5XNBD Catalyst 4500E 10 slot chassis
167	10	C4K-SLOT-CVR-E	Cisco Catalyst 4500 E-Series Family Slot Cover
168	2	WS-C4KE-PS-CVR	Cisco 4500 E-Series Chassis Power Supply Blank Cover
169	1	A9K-MPA-2X100GE=	Cisco ASR 9000 2-port 100GE Modular Port Adapter

LINE	QTY	Part Number	Description
170	1	A9K-400G-AIP-SE=	Cisco ASR 9000 4-port 100GE Advanced IP License for SE Line Card
171	28	CPAK-100G-LR4=	Cisco CPAK-100G-LR4 Transceiver module, 10km SMF
172	28	CVR-CFP2-CPAK4=	Cisco CFP2 to CPAK adapter for 4x25G interface
173	36	QSFP-100G-LR4-S=	Cisco 100GBASE LR QSFP Transceiver, LC, 10km over SMF
174	1	A9K-MPA-2X40GE=	Cisco ASR 9000 2-port 40GE Modular Port Adapter
175	1	A9K-40GE-TR=	Cisco 40-Port GE Line Card, Packet Transport Optimized
176	100	QSFP-40G-SR4=	Cisco 40GBASE-SR4 QSFP Transceiver Module with MPO connector
177	3	A9K-MPA-8X10GE=	Cisco ASR 9000 8-port 10GE Modular Port Adapter
178	60	SFP-10G-SR=	Cisco 10GBASE-SR SFP Module
179	10	SFP-10G-ER=	Cisco 10GBASE-ER SFP Module
180	5	SFP-10G-LR=	Cisco 10GBASE-LR SFP Module
181	40	WS-C3850-48XS-F-E	Cisco Catalyst 3850 48 Port 10G Fiber Switch IP Services
182	40	S3850UK9-163	Cisco UNIVERSAL
183	40	PWR-C3-750WDC-F/2	Cisco 750W DC Config Redundant Power Supply back to front cooling
184	40	PWR-C3-750WDC-F	Cisco 750W DC Config Power Supply back to front cooling
185	200	FAN-T3-F	Cisco Catalyst 3850 Type 3 back to front cooling Fan
186	40	STACK-T1-50CM=	Cisco 50CM Type 1 Stacking Cable
187	20	FAN-T3-F=	Cisco Catalyst 3850 Type 3 back to front cooling Fan - spare

ATTACHMENT B: CONTRACT TYPE, SUPPLIES OR SERVICES AND PRICE/COST

B.1 The Office of the Chief Technology Officer (OCTO) seeks a vendor to provide Cisco routers for optimizing cloud services interconnection, spine and leaf SDN switches for data center optimization, and switches to support upgrade/renovation work at Eastern and Anacostia schools.

B.2 The District awards of a Firm Fixed Price contract in accordance with 27 DCMR Chapter 24.

B.3 AGGREGATE GROUP OR INDIVIDUAL ITEM

Award, if made, will be to a single bidder in the aggregate for those groups of items indicated by "Aggregate Award Group" herein. Bidder must quote unit prices on each item within each group to receive consideration. Award, if made, on all other items will be on an individual item basis.

B.4 PRICE SCHEDULE – FIRMED FIXED PRICE

B.4.1 BASE YEAR

Date of Award through September 30, 2018

Item No.	Part Number	Description	QTY	Unit Price	Extended Price
0001	ASR-9906-TH-BUN	Cisco ASR 9906 TH Chassis bundle	2	\$0.00	\$0.00
0002	CON-SNT-ASR9906T	Cisco SNTC-8X5XNBD ASR 9906 TH Chassis Bundle	2	\$0.00	\$0.00
0003	ASR-9906-4P-KIT	Cisco ARE-9906 4 Post Mounting Kit	2	\$0.00	\$0.00
0004	A9K-SLIDE-RAIL	Cisco ASR 9K Slide guide rail for 19" 4 post	2	\$151.25	\$302.50
0005	A99-SFC-T	Cisco ASR 9906 Switch Fabric Card	4	\$11,000.00	\$44,000.00
0006	CON-SNT-A99TSFCT	Cisco SNTC-8X5XNBD ASR 9906 Switch Fabric Card	4	\$1,232.00	\$4,928.00
0007	ASR-9906-FAN	Cisco ASR 9906 Fan Tray	4	\$0.00	\$0.00
0008	A9K-DC-PEM-V3	Cisco ASR9K DC Power Enclosure Module Version 3	2	\$467.50	\$935.00
0009	PWR-4.4KW-DC-V3	Cisco 4.4KW DC Power Module Version 3	8	\$1,540.00	\$12,320.00
0010	A9K-OTHER	Cisco ASR9000; Other Network Applications; For Tracking Only	2	\$0.00	\$0.00

Item No.	Part Number	Description	QTY	Unit Price	Extended Price
0011	A9K-SW-MANAGER-CD	Cisco ASR 9000 Software Manager CD	2	\$0.00	\$0.00
0012	9906-LC-MS-C-PKG	Cisco ASR9906 LC Packaging Box	2	\$0.00	\$0.00
0013	A99-SFC-T	Cisco ASR 9906 Switch Fabric Card	6	\$0.00	\$0.00
0014	CON-SNT-A99TSFCT	Cisco SNTC-8X5XNBD ASR 9906 Switch Fabric Card	6	\$1,232.00	\$7,392.00
0015	A9K-LC-FILR-V2	Cisco A9K Line Card Slot Filler version 2	4	\$0.00	\$0.00
0016	RSP-SE	Cisco ASR 9900 Route Switch Processor 880 SE for Bundles	4	\$7,150.00	\$28,600.00
0017	CON-SNT-RSPRSSE9	Cisco SNTC-8X5XNBD ASR 9900 Route Switch Processor 880 SE f	4	\$2,956.80	\$11,827.20
0018	XR-A9K-PXK9-06.04	Cisco IOS XR IP/MPLS Core Software 3DES	2	\$4,125.00	\$8,250.00
0019	CON-SNT-XR9KPXK9	Cisco SNTC-8X5XNBD Cisco IOS XR IP/MPLS Core Software 3DES	2	\$462.00	\$924.00
0020	A9K-24X10GE-1G-SE	Cisco ASR 9000 24-port 10GE & 1GE dual rate SE LC	4	\$52,800.00	\$211,200.00
0021	CON-SNT-A9K14JSJ	Cisco SNTC-8X5XNBD ASR 9000 24-port 10GE 1GE dual rate SE	4	\$5,913.60	\$23,654.40
0022	A9K-24P10G-AIP-SE	Cisco Adv IP License for full scale VRFs for 24-port 10G/1G SE LC	4	\$15,125.00	\$60,500.00
0023	CON-SNT-A9K2G4PI	Cisco SNTC-8X5XNBD Adv IP License for full scale VRFs for 2	4	\$1,694.00	\$6,776.00
0024	SFP-10G-SR-S=	Cisco 10GBASE-SR SFP Module, Enterprise-Class	96	\$192.50	\$18,480.00
0025	ACI-C9364C-APIC-B1	Cisco ACI Bundle with 2 9364C and APIC	1	\$0.00	\$0.00
0026	N9K-C9364C	Cisco Nexus 9K ACI & NX-OS Spine, 64p 40/100G QSFP28	2	\$10,824.00	\$21,648.00
0027	CON-SNT-N9364C	Cisco SNTC-8X5XNBD Nexus 9K ACI NX-OS Spine, 64p 40 100G	2	\$697.95	\$1,395.90
0028	N9K-C9300-RMK	Cisco Nexus 9K Fixed Rack Mount Kit	2	\$0.00	\$0.00
0029	N9K-C9300-	Cisco Nexus 9K Fixed	2	\$0.00	\$0.00

Item No.	Part Number	Description	QTY	Unit Price	Extended Price
	ACK	Accessory Kit			
0030	NXA-FAN-160CFM-PI	Cisco Nexus Fan, 160CFM, port side intake	6	\$0.00	\$0.00
0031	ACI-N9KDK9-13.0	Cisco Nexus 9500 or 9300 ACI Base Software NX-OS Rel 13.0	2	\$0.00	\$0.00
0032	NXA-PDC-930W-PI	Cisco Nexus 9300W DC PS, Port-side Intake	4	\$270.37	\$1,081.48
0033	CAB-48DC-40A-8AWG	Cisco C-Series -48VDC PSU Power Cord, 3.5M, 3 Wire, 8AWG, 40A	4	\$0.00	\$0.00
0034	APIC-CLUSTER-L2	Cisco APIC Cluster - Large Configurations (>1000 Edge Ports)	1	\$12,220.52	\$12,220.52
0035	CON-SSPNB-APIC3L2	Cisco SSPT PLUS2 8X5XNBD APIC Cluster - Large	1	\$5,575.90	\$5,575.90
0036	APIC-SERVER-L2	Cisco APIC Appliance - Large Configurations (>1000 Edge Ports)	3	\$0.00	\$0.00
0037	APIC-CPU-E52620D	Cisco 2.40 GHz E5-262 v3/85W 6C/15MB Cache/DDR4 1866MHz	6	\$0.00	\$0.00
0038	APIC-MRAID12G	Avila Cisco 12G SAS Modular Raid Controller (Raid 0/1)	3	\$0.00	\$0.00
0039	APIC-USBFLASHB-16GB	Cisco UCS Servers 16GB Flash USP Drive	3	\$0.00	\$0.00
0040	APIC-TPM2-001	Cisco Trusted Platform Module	3	\$0.00	\$0.00
0041	APIC-PSU-BLKP1U	Cisco Power Supply Blanking Panel for C220 M4 servers	3	\$0.00	\$0.00
0042	APIC-SD200G12S3-EP	Cisco 200GB 2.5 inch Enterprise performance 6G SATA SSD	3	\$0.00	\$0.00
0043	APIC-HD12TB10K12G	Cisco 1.2 TB 6G SAS 10K rpm SFF HDD	6	\$0.00	\$0.00
0044	APIC-MR-1X322RV-A	Cisco 32GB DDR4-2400-MHz RDIMM/PC4-19200/dual rank/x4/1.2v	12	\$0.00	\$0.00
0045	R2XX-RAID0	Cisco Enable RAID 0 Setting	3	\$0.00	\$0.00
0046	APIC-DK9-3.0	Cisco APIC Base	3	\$0.00	\$0.00

Item No.	Part Number	Description	QTY	Unit Price	Extended Price
		Software Release 3.0			
0047	APIC-PCIE-CSC-02	Cisco VIC 1225 Dual Port 10Gb SFP+ CNA	3	\$359.45	\$1,078.35
0048	APIC-PSU1-770W	Cisco 770W power supply for UCS C-Series	3	\$157.62	\$472.86
0049	CAB-9K12A-NA	Cisco Power Cord 125VAC 13A NEMA 5-15 Plug, North America	3	\$0.00	\$0.00
0050	ACI-C9364C-APIC-B1	Cisco ACI Bundle with 2 9364C and APIC	1	\$0.00	\$0.00
0051	N9K-C9364C	Cisco Nexus 9K ACI & NX-OS Spine, 64p 40/100G QSFP28	2	\$10,824.00	\$21,648.00
0052	CON-SNT-N9364C	Cisco SNTC-8X5XNBD Nexus 9K ACI NX-OS Spine, 64p 40 100G	2	\$697.95	\$1,395.90
0053	N9K-C9300-RMK	Cisco Nexus 9K Fixed Rack Mount Kit	2	\$0.00	\$0.00
0054	N9K-C9300-ACK	Cisco Nexus 9K Fixed Accessory Kit	2	\$0.00	\$0.00
0055	CAB-9K12A-NA	Cisco Power Cord 125VAC 13A NEMA 5-15 Plug, North America	4	\$0.00	\$0.00
0056	NXA-PAC-1200W-PE	Cisco Nexus NEBs AC 1200W PSU Port Side Exhaust	4	\$0.00	\$0.00
0057	NXA-FAN-160CFM-PE	Cisco Nexus Fan, 160CFM, port side exhaust airflow	6	\$0.00	\$0.00
0058	ACI-N9KDK9-13.0	Cisco Nexus 9500 or 9300 ACI Base Software NX-OS Rel 13.0	2	\$0.00	\$0.00
0059	APIC-CLUSTER-L2	Cisco APIC Cluster - Large Configurations (>1000 Edge Ports)	1	\$12,220.52	\$12,220.52
0060	CON-SSPNB-APIC3L2	Cisco SSPT PLUS2 8X5XNBD APIC Cluster - Large	1	\$5,575.90	\$5,575.90
0061	APIC-SERVER-L2	Cisco APIC Appliance - Large Configurations (>1000 Edge Ports)	3	\$0.00	\$0.00
0062	APIC-CPU-E52620D	Cisco 2.40 GHz E5-262 v3/85W 6C/15MB Cache/DDR4 1866MHz	6	\$0.00	\$0.00
0063	APIC-MRAID12G	Avila Cisco 12G SAS Modular Raid Controller (Raid 0/1)	3	\$0.00	\$0.00

Item No.	Part Number	Description	QTY	Unit Price	Extended Price
0064	APIC-USBFLASHB-16GB	Cisco UCS Servers 16GB Flash USP Drive	3	\$0.00	\$0.00
0065	APIC-TPM2-001	Cisco Trusted Platform Module	3	\$0.00	\$0.00
0066	APIC-PSU-BLKP1U	Cisco Power Supply Blanking Panel for C220 M4 servers	3	\$0.00	\$0.00
0067	APIC-SD200G12S3-EP	Cisco 200GB 2.5 inch Enterprise performance 6G SATA SSD	3	\$0.00	\$0.00
0068	APIC-HD12TB10K12G	Cisco 1.2 TB 6G SAS 10K rpm SFF HDD	6	\$0.00	\$0.00
0069	APIC-MR-1X322RV-A	Cisco 32GB DDR4-2400-MHz RDIMM/PC4-19200/dual rank/x4/1.2v	12	\$0.00	\$0.00
0070	R2XX-RAID0	Cisco Enable RAID 0 Setting	3	\$0.00	\$0.00
0071	APIC-DK9-3.0	Cisco APIC Base Software Release 3.0	3	\$0.00	\$0.00
0072	APIC-PCIE-CSC-02	Cisco VIC 1225 Dual Port 10Gb SFP+ CNA	3	\$359.45	\$1,078.35
0073	APIC-PSU1-770W	Cisco 770W power supply for UCS C-Series	3	\$157.62	\$472.86
0074	CAB-9K12A-NA	Cisco Power Cord 125VAC 13A NEMA 5-15 Plug, North America	3	\$0.00	\$0.00
0075	N9K-C93180-FX-B24C	Cisco 2xNexus 93180YC-FX w/ 8x 100G Optics	8	\$17,875.00	\$143,000.00
0076	CON-SNT-N93YCFXC	Cisco SNTC-8X5XNBD 2xNexus 93180YC-FX w/ 8x QSFP-100G-PSM4-	8	\$0.00	\$0.00
0077	N9K-C93180YC-FX-B	Cisco Nexus 92108YC-FX bundle PID	16	\$0.00	\$0.00
0078	CON-SNT-N93YCFXB	Cisco SNTC-8X5XNBD Nexus 93180YC-FX bun	16	\$399.85	\$6,397.60
0079	N3K-C3064-ACC-KIT	Cisco Nexus 3K/9K Fixed Accessory Kit	16	\$0.00	\$0.00
0080	ACI-N9KDK9-13.1.2	Cisco Nexus 9500 or 9300 ACI Base Software NX-OS Rel 13.1.2	16	\$0.00	\$0.00
0081	CAB-9K12A-NA	Cisco Power Cord, 125VAC 13A NEMA 5-	32	\$0.00	\$0.00

Item No.	Part Number	Description	QTY	Unit Price	Extended Price
		15 Plug, North America			
0082	NXK-PICK-Bidi	Cisco PID to select QSFP-100G-SR-BD Optic in the bundle	16	\$0.00	\$0.00
0083	QSFP-40/100-SRBD	Cisco 100G and 40GBASE SR-Bidi QSFP Transceiver, LC, 100m OM4 MMF	64	\$0.00	\$0.00
0084	ACI-AD-XF	Cisco ACI Advantage SW license for a 10/25/40G+ Nexus 9K Leaf	16	\$4,950.00	\$79,200.00
0085	CON-ECMU-ACIADXF	Cisco SWSS UPGRADES ACI Advantage SW License for a 10/25/40G	16	\$396.00	\$6,336.00
0086	NXA-PAC-500W-PE	Cisco Nexus NEBs AC 500W PSU - Port Side Exhaust	32	\$0.00	\$0.00
0087	NXA-FAN-30CFM-F	Cisco Nexus 2K/3K/9K Single Fan, port side exhaust airflow	64	\$0.00	\$0.00
0088	N9K-C93180-FX-B24C	Cisco 2xNexus 93180YC-FX w/ 8x 100G Optics	2	\$17,875.00	\$35,750.00
0089	CON-SNT-N93YCFXC	Cisco SNTC-8X5XNBD 2xNexus 93180YC-FX w/ 8x QSFP-100G-PSM4-	2	\$0.00	\$0.00
0090	N9K-C93180YC-FX-B	Cisco Nexus 92108YC-FX bundle PID	4	\$0.00	\$0.00
0091	CON-SNT-N93YCFXB	Cisco SNTC-8X5XNBD Nexus 93180YC-FX bun	4	\$399.85	\$1,599.40
0092	N3K-C3064-ACC-KIT	Cisco Nexus 3K/9K Fixed Accessory Kit	4	\$0.00	\$0.00
0093	NXK-PICK-Bidi	Cisco PID to select QSFP-100G-SR-BD Optic in the bundle	4	\$0.00	\$0.00
0094	QSFP-40/100-SRBD	Cisco 100G and 40GBASE SR-Bidi QSFP Transceiver, LC, 100m OM4 MMF	16	\$0.00	\$0.00
0095	ACI-N9KDK9-13.1.2	Cisco Nexus 9500 or 9300 ACI Base Software NX-OS Rel 13.1.2	4	\$0.00	\$0.00

Item No.	Part Number	Description	QTY	Unit Price	Extended Price
0096	NXA-FAN-30CFM-B	Cisco Nexus 2K/3K/9K Single Fan, port side intake airflow	16	\$0.00	\$0.00
0097	ACI-AD-XF	Cisco ACI Advantage SW license for a 10/25/40G+ Nexus 9K Leaf	4	\$4,950.00	\$19,800.00
0098	CON-ECMU-ACIADXF	Cisco SWSS UPGRADES ACI Advantage SW License for a 10/25/40G	4	\$396.00	\$1,584.00
0099	CAB-48DC-40A-8AWG	Cisco C-Series -48VDC PSU Power Cord, 3.5M, 3 Wire, 8AWG, 40A	8	\$0.00	\$0.00
0100	NXA-PDC-930W-PI	Cisco Nexus 9K 930W DC PS, Port-side Intake	8	\$329.73	\$2,637.84
0101	ACI-MSITE-VAPPL6=	Cisco ACI Multi-Site Virtual Appliance Promotional Offer	1	\$16,500.00	\$16,500.00
0102	CON-ECMUS-MSVAPPL6	Cisco SOLN SUPP SWSS ACI Multi-Site Virtu	1	\$4,620.00	\$4,620.00
0103	QSFP-100G-AOC2M=	Cisco 100GBASE QSFP Active Optical Cable, 2m	10	\$548.63	\$5,486.30
0104	QSFP-100G-AOC20M=	Cisco 100GBASE QSFP Active Optical Cable, 20m	4	\$658.63	\$2,634.52
0105	QSFP-100G-AOC25M=	Cisco 100GBASE QSFP Active Optical Cable, 25m	8	\$658.63	\$5,269.04
0106	SFP-H25G-CU2M=	Cisco 25GBASE-CU SFP28 Cable 2 Meter	115	\$34.38	\$3,953.70
0107	SFP-H25G-CU3M=	Cisco 25GBASE-CU SFP28 Cable 3 Meter	200	\$34.38	\$6,876.00
0108	SFP-10G-SR-S	Cisco 10GBASE-SR SFP Module, Enterprise Class	40	\$192.50	\$7,700.00
0109	WS-C4510R+E=	Cisco Catalyst 4500E 10 slot chassis for 48Gbps/slot, fan, no ps	4	\$3,620.78	\$14,483.12
0110	CON-SSSNT-C4510R+E	Cisco SOLN SUPP 8X5XNBD Catalyst 4500E 10 slot chassis	4	\$4,042.50	\$16,170.00
0111	C4K-SLOT-CVR-E	Cisco Catalyst 4500 E-Series Family Slot Cover	40	\$0.00	\$0.00
0112	WS-C4KE-PS-CVR	Cisco 4500 E-Series Chassis Power Supply	8	\$0.00	\$0.00

Item No.	Part Number	Description	QTY	Unit Price	Extended Price
		Blank Cover			
0113	WS-X45-SUP8-E=	Cisco Catalyst 4500 E-Series Supervisor 8-E	12	\$7,243.28	\$86,919.36
0114	C4500E-IPB-S	Cisco Catalyst 4500E IPB license for Spare Supervisor	12	\$0.00	\$0.00
0115	C4500E-LIC-PAK	Cisco PAK license SKU for spare sup configuration	12	\$0.00	\$0.00
0116	WS-X4748-UPOE+E=	Cisco Catalyst 4500E 48-Port UPOE 10/100/1000(RJ45)	15	\$3,258.53	\$48,877.95
0117	SFP-10G-SR-S=	Cisco 10GBASE-SR SFP Module, Enterprise Class	30	\$241.50	\$7,245.00
0118	WS-C4507R+E=	Cisco Catalyst 4500E 7 slot chassis for 48Gbps/slot, fan, no ps	1	\$2,534.03	\$2,534.03
0119	CON-SSSNT-C4507R+E	Cisco SOLN SUPP 8X5XNBD Catalyst 4500E 7 slot chassis	1	\$2,125.20	\$2,125.20
0120	C4K-SLOT-CVR-E	Cisco Catalyst 4500 E-Series Family Slot Cover	7	\$0.00	\$0.00
0121	WS-C4KE-PS-CVR	Cisco 4500 E-Series Chassis Power Supply Blank Cover	2	\$0.00	\$0.00
0122	WS-C3850-12XS-S	Cisco Catalyst 3850 12 Port 10G Fiber Switch IP Base	1	\$4,892.10	\$4,892.10
0123	S3850UK9-163	Cisco UNIVERSAL	1	\$0.00	\$0.00
0124	PWR-C1-440WDC/2	Cisco 440W DC Config 1 secondary Power Supply	1	\$224.25	\$224.25
0125	PWR-C1-440WDC	Cisco 440W DC Config 1 Power Supply	1	\$172.50	\$172.50
0126	STACK-T1-50CM	Cisco 50CM Type 1 Stacking Cable	1	\$34.50	\$34.50
0127	CAB-SPWR-30CM	Cisco Catalyst Stack Power Cable 30 CM	1	\$32.78	\$32.78
0128	C3850-NM-BLANK	Cisco Catalyst 3850 Network Module Blank	1	\$0.00	\$0.00
0129	GLC-LH-SMD=	Cisco 1000BASE-LX/LH SFP transceiver module MMF/SMF 1310nm DOM	4	\$343.28	\$1,373.12
0130	SFP-10G-SR-S=	Cisco 10GBASE-SR	4	\$241.50	\$966.00

Item No.	Part Number	Description	QTY	Unit Price	Extended Price
		SFP Module, Enterprise Class			
0131	GLC-TE=	Cisco 1000BASE-T SFP transceiver module for Category 5 copper wire	4	\$155.25	\$621.00
0132	ISR4451-X/K9	Cisco ISR 4451 (4GE,3NIM,2SM,8g FLASH,4GDRAM)	1	\$6,210.00	\$6,210.00
0133	SL-44-IPB-K9	Cisco IP Base License for Cisco ISR 4400 Series	1	\$0.00	\$0.00
0134	SL-44-APP-K9	Cisco AppX License for Cisco ISR 4400 Series	1	\$1,242.00	\$1,242.00
0135	SL-44-UC-K9	Cisco Unified Communication License for Cisco ISR 4400 Series	1	\$690.00	\$690.00
0136	PVDM4-128	Cisco 128-channel DSP module	1	\$2,346.00	\$2,346.00
0137	PWR-4450-DC	Cisco DC Power Supply for Cisco ISR 4450 and 4350	1	\$276.00	\$276.00
0138	PWR-4450-DC/2	Cisco DC Power Supply (Secondary PS) for Cisco ISR 4450 and 4350	1	\$276.00	\$276.00
0139	MEM-FLSH-8G	Cisco 8G eUSP Flash Memory for Cisco ISR 4430	1	\$0.00	\$0.00
0140	MEM-4400-DP-2G	Cisco 2G DRAM (1 DIMM) for Cisco ISR 4400 Data Plane	1	\$0.00	\$0.00
0141	WAAS-RTU-2500	Cisco WAAS and VWAAS Right to Use for 2500 connections	1	\$0.00	\$0.00
0142	CON-ECMU-WS2500	SWSS UPGRADES WAAS and VWAAS Right	1	\$0.00	\$0.00
0143	PWR-COVER-4450	Cisco Cover for empty 2nd Power Supply slot on Cisco ISR 4450	1	\$0.00	\$0.00
0144	POE-COVER-4450	Cisco Cover for empty POE slot on Cisco ISR 4450	2	\$0.00	\$0.00
0145	ISRWAAS-RTU-2500	Cisco ISRWAAS RTU for 2500 connections	1	\$0.00	\$0.00
0146	NIM-BLANK	Cisco Blank faceplate for NIM slot on Cisco	2	\$0.00	\$0.00

Item No.	Part Number	Description	QTY	Unit Price	Extended Price
		ISR 4400			
0147	MEM-44-4G	Cisco 4G DRAM (1 x 4G) for Cisco ISR 4400	1	\$0.00	\$0.00
0148	SM-S-BLANK	Cisco Removable faceplate for SM slot on Cisco 2900, 3900, 4400 ISR	2	\$0.00	\$0.00
0149	SISR4400UK9-316S	Cisco ISR 4400 Series IOS XE Universal	1	\$0.00	\$0.00
0150	SRST-EP	Cisco SRST - 1 SRST Endpoint License	25	\$10.35	\$258.75
0151	CON-ECMU-SRSTGTEP	Cisco SWSS UPGRADES Cisco SRST - 1 SRST Endpoint License	25	\$2.20	\$55.00
0152	NIM-4FXO	Cisco 4-port Network Interface Module - FXO (universal)	1	\$345.00	\$345.00
0153	WS-C3850-48F-S	Cisco Catalyst 3850 48 Port Full PoE IP Base	1	\$4,926.60	\$4,926.60
0154	S3850UK9-163	Cisco UNIVERSAL	1	\$0.00	\$0.00
0155	C3850-NM-4-1G	Cisco Catalyst 3850 4 x 1GE Network Module	1	\$175.95	\$175.95
0156	CAB-TA-NA	Cisco North America AC Type A Power Cable	1	\$0.00	\$0.00
0157	STACK-T1-50CM	Cisco 50CM Type I Stacking Cable	1	\$34.50	\$34.50
0158	CAB-SPWR-30CM	Cisco Catalyst Stack Power Cable 30 CM	1	\$32.78	\$32.78
0159	PWR-C1-BLANK	Cisco Config 1 Power Supply Blank	1	\$0.00	\$0.00
0160	PWR-C1-1100WAC	Cisco 1100W AC Config 1 Power Supply	1	\$0.00	\$0.00
0161	GLC-SX-MMD=	Cisco 1000BASE-SX SFP transceiver module, MMF, 850nm DOM	3	\$172.50	\$517.50
0162	WS-X4712-SFP+E=	Cisco Catalyst 4500 E-Series 12-Port 10GbE (SFP+)	1	\$9,779.03	\$9,779.03
0163	SFP-10G-SR-S=	Cisco 10GBASE-SR SFP Module, Enterprise-Class	12	\$241.50	\$2,898.00
0164	WS-X4748-UPOE+E=	Cisco Catalyst 4500E 48-Port UPOE 10/100/1000(RJ45)	2	\$3,258.53	\$6,517.06
0165	WS-C4510R+E=	Cisco Catalyst 4500E 10 slot chassis for	1	\$3,620.78	\$3,620.78

Item No.	Part Number	Description	QTY	Unit Price	Extended Price
		48Gbps/slot, fan, no ps			
0166	CON-SSSNT-C4510R+E	Cisco SOLN SUPP 8X5XNBD Catalyst 4500E 10 slot chassis	1	\$4,042.50	\$4,042.50
0167	C4K-SLOT-CVR-E	Cisco Catalyst 4500 E-Series Family Slot Cover	10	\$0.00	\$0.00
0168	WS-C4KE-PS-CVR	Cisco 4500 E-Series Chassis Power Supply Blank Cover	2	\$0.00	\$0.00
0169	A9K-MPA-2X100GE=	Cisco ASR 9000 2-port 100GE Modular Port Adapter	1	\$20,312.50	\$20,312.50
0170	A9K-400G-AIP-SE=	Cisco ASR 9000 4-port 100GE Advanced IP License for SE Line Card	1	\$22,500.00	\$22,500.00
0171	CPAK-100G-LR4=	Cisco CPAK-100G-LR4 Transceiver module, 10km SMF	28	\$5,250.00	\$147,000.00
0172	CVR-CFP2-CPAK4=	Cisco CFP2 to CPAK adapter for 4x25G interface	28	\$187.50	\$5,250.00
0173	QSFP-100G-LR4-S=	Cisco 100GBASE LR QSFP Transceiver, LC, 10km over SMF	36	\$3,749.38	\$134,977.68
0174	A9K-MPA-2X40GE=	Cisco ASR 9000 2-port 40GE Modular Port Adapter	1	\$11,250.00	\$11,250.00
0175	A9K-40GE-TR=	Cisco 40-Port GE Line Card, Packet Transport Optimized	1	\$6,046.88	\$6,046.88
0176	QSFP-40G-SR4=	Cisco 40GBASE-SR4 QSFP Transceiver Module with MPO connector	100	\$374.38	\$37,438.00
0177	A9K-MPA-8X10GE=	Cisco ASR 9000 8-port 10GE Modular Port Adapter	3	\$9,750.00	\$29,250.00
0178	SFP-10G-SR=	Cisco 10GBASE-SR SFP Module	60	\$124.38	\$7,462.80
0179	SFP-10G-ER=	Cisco 10GBASE-ER SFP Module	10	\$1,250.00	\$12,500.00
0180	SFP-10G-LR=	Cisco 10GBASE-LR SFP Module	5	\$499.38	\$2,496.90
0181	WS-C3850-48XS-F-E	Cisco Catalyst 3850 48 Port 10G Fiber Switch	40	\$4,312.50	\$172,500.00

Item No.	Part Number	Description	QTY	Unit Price	Extended Price
		IP Services			
0182	S3850UK9-163	Cisco UNIVERSAL	40	\$0.00	\$0.00
0183	PWR-C3-750WDC-F/2	Cisco 750W DC Config Redundant Power Supply back to front cooling	40	\$312.50	\$12,500.00
0184	PWR-C3-750WDC-F	Cisco 750W DC Config Power Supply back to front cooling	40	\$312.50	\$12,500.00
0185	FAN-T3-F	Cisco Catalyst 3850 Type 3 back to front cooling Fan	200	\$0.00	\$0.00
0186	STACK-T1-50CM=	Cisco 50CM Type 1 Stacking Cable	40	\$12.50	\$500.00
0187	FAN-T3-F=	Cisco Catalyst 3850 Type 3 back to front cooling Fan - spare	20	\$31.25	\$625.00
Total Price					\$1,741,322.16

ATTACHMENT C: INSURANCE

INSURANCE

- A. **GENERAL REQUIREMENTS.** The Contractor at its sole expense shall procure and maintain, during the entire period of performance under this contract, the types of insurance specified below. The Contractor shall have its insurance broker or insurance company submit a Certificate of Insurance to the CO giving evidence of the required coverage prior to commencing performance under this contract. In no event shall any work be performed until the required Certificates of Insurance signed by an authorized representative of the insurer(s) have been provided to, and accepted by, the CO. All insurance shall be written with financially responsible companies authorized to do business in the District of Columbia or in the jurisdiction where the work is to be performed and have an A.M. Best Company rating of A- / VII or higher. The Contractor shall require all of its subcontractors to carry the same insurance required herein.

All required policies shall contain a waiver of subrogation provision in favor of the Government of the District of Columbia.

The Government of the District of Columbia shall be included in all policies required hereunder to be maintained by the Contractor and its subcontractors (except for workers' compensation and professional liability insurance) as an additional insureds for claims against The Government of the District of Columbia relating to this contract, with the understanding that any affirmative obligation imposed upon the insured Contractor or its subcontractors (including without limitation the liability to pay premiums) shall be the sole obligation of the Contractor or its subcontractors, and not the additional insured. The additional insured status under the Contractor's and its subcontractors' Commercial General Liability insurance policies shall be effected using the ISO Additional Insured Endorsement form CG 20 10 11 85 (or CG 20 10 07 04 and CG 20 37 07 04) or such other endorsement or combination of endorsements providing coverage at least as broad and approved by the CO in writing. All of the Contractor's and its subcontractors' liability policies (except for workers' compensation and professional liability insurance) shall be endorsed using ISO form CG 20 01 04 13 or its equivalent so as to indicate that such policies provide primary coverage (without any right of contribution by any other insurance, reinsurance or self-insurance, including any deductible or retention, maintained by an Additional Insured) for all claims against the additional insured arising out of the performance of this Statement of Work by the Contractor or its subcontractors, or anyone for whom the Contractor or its subcontractors may be liable. These policies shall include a separation of insureds clause applicable to the additional insured.

If the Contractor and/or its subcontractors maintain broader coverage and/or higher limits than the minimums shown below, the District requires and shall be entitled to the broader coverage and/or the higher limits maintained by the Grantee and subcontractors.

1. Commercial General Liability Insurance ("CGL") - The Contractor shall provide evidence satisfactory to the CO with respect to the services performed that it carries a CGL policy, written on an occurrence (not claims-made) basis, on Insurance Services Office, Inc. ("ISO") form CG 00 01 04 13 (or another occurrence-based form with coverage at least as broad and approved by the CO in writing), covering liability for all ongoing and completed operations of the Contractor, including ongoing and

completed operations under all subcontracts, and covering claims for bodily injury, including without limitation sickness, disease or death of any persons, injury to or destruction of property, including loss of use resulting therefrom, personal and advertising injury, and including coverage for liability arising out of an Insured Contract (including the tort liability of another assumed in a contract) and acts of terrorism (whether caused by a foreign or domestic source). Such coverage shall have limits of liability of not less than \$1,000,000 each occurrence, a \$2,000,000 general aggregate (including a per location or per project aggregate limit endorsement, if applicable) limit, a \$1,000,000 personal and advertising injury limit, and a \$2,000,000 products-completed operations aggregate limit. The vendor should be named as an additional insured on the applicable manufacturer's/distributor's Commercial General Liability policy using Insurance Services Office, Inc. ("ISO") form CG 20 15 04 13 (or another occurrence-based form with coverage at least as broad).

2. Automobile Liability Insurance - The Contractor shall provide evidence satisfactory to the CO of commercial (business) automobile liability insurance written on ISO form CA 00 01 10 13 (or another form with coverage at least as broad and approved by the CO in writing) including coverage for all owned, hired, borrowed and non-owned vehicles and equipment used by the Contractor, with minimum per accident limits equal to the greater of (i) the limits set forth in the Contractor's commercial automobile liability policy or (ii) \$1,000,000 per occurrence combined single limit for bodily injury and property damage.
3. Workers' Compensation Insurance - The Contractor shall provide evidence satisfactory to the CO of Workers' Compensation insurance in accordance with the statutory mandates of the District of Columbia or the jurisdiction in which the contract is performed.

Employer's Liability Insurance - The Contractor shall provide evidence satisfactory to the CO of employer's liability insurance as follows: \$500,000 per accident for injury; \$500,000 per employee for disease; and \$500,000 for policy disease limit.

All insurance required by this paragraph 3 shall include a waiver of subrogation endorsement for the benefit of Government of the District of Columbia.

4. Crime Insurance (3rd Party Indemnity) - The Contractor shall provide a 3rd Party Crime policy to cover the dishonest acts of Contractor's employees which result in a loss to the District. The policy shall provide a limit of \$10,000 per occurrence.
5. Commercial Umbrella or Excess Liability - The Contractor shall provide evidence satisfactory to the CO of commercial umbrella or excess liability insurance with minimum limits equal to the greater of (i) the limits set forth in the Contractor's umbrella or excess liability policy or (ii) \$10,000,000 per occurrence and \$10,000,000 in the annual aggregate, following the form and in excess of all liability policies. All liability coverages must be scheduled under the umbrella and/or excess policy. The insurance required under this paragraph shall be written in a form that annually reinstates all required limits. Coverage shall be primary to any insurance, self-insurance or reinsurance maintained by the District and the "other insurance" provision must be amended in accordance with this requirement and principles of vertical exhaustion.

B. PRIMARY AND NONCONTRIBUTORY INSURANCE

The insurance required herein shall be primary to and will not seek contribution from any other insurance, reinsurance or self-insurance including any deductible or retention, maintained by the Government of the District of Columbia.

C. DURATION. The Contractor shall carry all required insurance until all contract work is accepted by the District of Columbia, and shall carry listed coverages for ten years for construction projects following final acceptance of the work performed under this contract and two years for non-construction related contracts.

D. LIABILITY. These are the required minimum insurance requirements established by the District of Columbia. **HOWEVER, THE REQUIRED MINIMUM INSURANCE REQUIREMENTS PROVIDED ABOVE WILL NOT IN ANY WAY LIMIT THE CONTRACTOR'S LIABILITY UNDER THIS CONTRACT.**

E. CONTRACTOR'S PROPERTY. Contractor and subcontractors are solely responsible for any loss or damage to their personal property, including but not limited to tools and equipment, scaffolding and temporary structures, rented machinery, or owned and leased equipment. A waiver of subrogation shall apply in favor of the District of Columbia.

F. MEASURE OF PAYMENT. The District shall not make any separate measure or payment for the cost of insurance and bonds. The Contractor shall include all of the costs of insurance and bonds in the contract price.

G. NOTIFICATION. The Contractor shall ensure that all policies provide that the CO shall be given thirty (30) days prior written notice in the event of coverage and / or limit changes or if the policy is canceled prior to the expiration date shown on the certificate. The Contractor shall provide the CO with ten (10) days prior written notice in the event of non-payment of premium. The Contractor will also provide the CO with an updated Certificate of Insurance should its insurance coverages renew during the contract.

H. CERTIFICATES OF INSURANCE. The Contractor shall submit certificates of insurance giving evidence of the required coverage as specified in this section prior to commencing work. Certificates of insurance must reference the corresponding contract number. Evidence of insurance shall be submitted to:

The Government of the District of Columbia

And mailed to the attention of:

**Chris Yi, Contracting Officer
Office of the Chief Technology Officer
200 I Street, SE
Washington, DC 20003
Office: 202-724-5069
E-mail: chris.yi@dc.gov**

The CO may request and the Contractor shall promptly deliver updated certificates of insurance, endorsements indicating the required coverages, and/or certified copies of the insurance policies. If the insurance initially obtained by the Contractor expires prior to completion of the contract, renewal certificates of insurance and additional insured and other endorsements shall be furnished to the CO prior to the date of expiration of all such initial insurance. For all coverage required to be maintained after completion, an additional certificate of insurance evidencing such coverage shall be submitted to the CO on an annual basis as the coverage is renewed (or replaced).

- I. **DISCLOSURE OF INFORMATION.** The Contractor agrees that the District may disclose the name and contact information of its insurers to any third party which presents a claim against the District for any damages or claims resulting from or arising out of work performed by the Contractor, its agents, employees, servants or subcontractors in the performance of this contract.
- J. **CARRIER RATINGS.** All Contractor's and its subcontractors' insurance required in connection with this contract shall be written by insurance companies with an A.M. Best Insurance Guide rating of at least A- VII (or the equivalent by any other rating agency) and licensed in the in the District.