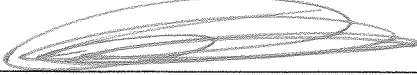




WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY  
600 Fifth Street, NW, Washington, DC 20001-2651

**AMENDMENT OF SOLICITATION / MODIFICATION OF CONTRACT**

1. AMENDMENT/MODIFICATION A004	2. EFFECTIVE DATE (Same as block 17)		
3. ISSUED BY PURCHASING SECTION WMATA PRMT - CENI 600 FIFTH STREET, NW, WASHINGTON DC 20001-2651	4. ADMINISTERED BY (If other than block 3)  (Same as block 3)		
5. CONTRACTOR NAME AND ADDRESS          (Street, city, county, state, and Zip Code)	6. FORM TYPE (Check only one) <input checked="" type="checkbox"/> AMENDMENT OF SOLICITATION NO. <u>FQ15233/ER</u> DATE <u>9/18/15</u> (See block 7) <input type="checkbox"/> MODIFICATION OF CONTRACT/ORDER NO.  DATE _____ (See block 9)		
<b>7. THIS BLOCK APPLIES ONLY TO AMENDMENTS OF SOLICITATIONS</b> <input checked="" type="checkbox"/> The above numbered solicitation is amended as set forth in block 10. The hour and date specified for receipt of Offers <input checked="" type="checkbox"/> is extended, <input type="checkbox"/> is not extended. Offerors 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 signing and returning _____ copies of this amendment; (b) by acknowledging receipt of this amendment on each copy of the offer submitted; or (c) by separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGMENT TO BE RECEIVED AT THE ISSUING OFFICE PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If, by virtue of this amendment you desire to change an offer already submitted, such change may be made by telegram or letter, provided such telegram makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.			
<b>8. ACCOUNTING AND APPROPRIATION DATA (If required)</b>  N/A			
<b>9. THIS BLOCK APPLIES ONLY TO MODIFICATIONS OF CONTRACTS/ORDERS</b> (a) <input type="checkbox"/> This Change Order is issued pursuant to The Changes set forth in block 10 are made to the above numbered contract/order. (b) <input type="checkbox"/> The above numbered contract/order is modified to reflect the administrative changes (such as changes in paying office, appropriation data, etc.) set forth in block 10. (c) <input type="checkbox"/> This Supplemental Agreement is entered into pursuant to authority of _____ it modifies the above numbered contract as set forth in block 10.			
<b>10. DESCRIPTION OF AMENDMENT/MODIFICATION</b>  SEE CONTINUATION SHEET BELOW:			
<small>Except as provided herein, all terms and conditions of the document referenced in block 6, as heretofore changed, remain unchanged and in full force and effect.</small>			
11. <input type="checkbox"/> CONTRACTOR/OFFEROR IS REQUIRED TO SIGN THIS MODIFICATION AND RETURN _____ COPIES TO ISSUING OFFICE.	<input checked="" type="checkbox"/> CONTRACTOR/OFFEROR IS NOT REQUIRED TO SIGN THIS DOCUMENT		
12. NAME OF CONTRACTOR/OFFICE  BY _____ <small>(Signature of person authorized to sign)</small>	15. WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY  BY  <small>(Signature of Contracting Officer)</small>		
13. NAME AND TITLE OF SIGNER (Type or print)	14. DATE SIGNED	16. NAME OF CONTRACTING OFFICER (Type or print)  RICHARD OWENS	17. DATE SIGNED  9/18/15

WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY  
600 Fifth Street, NW, Washington, DC 20001-2651  
AMENDMENT OF SOLICITATION / MODIFICATION OF CONTRACT  
CONTINUATION SHEET  
FQ15233/ER

**A. Volume 1 – Bidding and Contractual Requirement**

**Delete the following pages and in turn substitute the accompanying pages:**

<u>DELETE</u>	<u>SUBSTITUTE</u>	<u>DESCRIPTION</u>
Section 00434 Bid Schedule C	Section 00434 Bid Schedule C	Revised
Section 00434 Notes to Bidders	Section 00434 Notes to Bidders	Revised
<b>B. Section 00889 Partnering</b>	<b>Section 00889 Partnering</b>	<b>Replaced</b>
C. Section 01110, Summary Of Work	Page 01110-1	Revised
<b>D. Section 01110, Part 1.1(F) Table 1</b>	<b>Section 01110, Part 1.1(F) Table 1</b>	<b>Revised</b>
E. Section 01110, Summary Of Work	Page 01110-6	Replaced
F. Section 01117, Construction Tasks Details	Page 01117-6 to 7	Revised
<b>G. Section 01141, Access to Site</b>	<b>Page 01141-1</b>	<b>Revised</b>

**\*\*\*END OF AMENDMENT 004\*\*\***

**Bid Schedule**

#AM4CLIN	DESCRIPTION	NOTE #	QTY	UNIT	UNIT PRICE	TOTAL
0001	GENERAL REQUIREMENTS	1	1	LS	\$ _____	\$ _____
0002	MOBILIZATION	2	1	LS	\$ _____	\$ _____
0003	METRO CENTER WEST	3	1	LS	\$ _____	\$ _____
0004	METRO CENTER EAST	3	1	LS	\$ _____	\$ _____
0005	METRO CENTER NORTH	3	1	LS	\$ _____	\$ _____
0006	METRO CENTER SOUTH	3	1	LS	\$ _____	\$ _____
0007	FARRAGUT NORTH SE.	3	1	LS	\$ _____	\$ _____
0008	FARRAGUT NORTH NW.	3	1	LS	\$ _____	\$ _____
0009	FARRAGUT NORTH NE.	3	1	LS	\$ _____	\$ _____
0010	DUPONT CIRCLE SO.	3	1	LS	\$ _____	\$ _____
0011	WOODLEY PARK ZOO	3	1	LS	\$ _____	\$ _____
0012	CLEVELAND PARK	3	1	LS	\$ _____	\$ _____
0013	VAN NESS UDC	3	1	LS	\$ _____	\$ _____
0014	TENLEYTOWN	3	1	LS	\$ _____	\$ _____
0015	FRIENDSHIP HEIGHTS NO.	3	1	LS	\$ _____	\$ _____
0016	FRIENDSHIP HEIGHTS SO.	3	1	LS	\$ _____	\$ _____

#AM4CLIN	DESCRIPTION	NOTE #	QTY	UNIT	UNIT PRICE	TOTAL
0017	GROSVENOR	3	1	LS	\$	\$
0018	WHITE FLINT	3	1	LS	\$	\$
0019	TWINBROOK	3	1	LS	\$	\$
0020	ROCKVILLE	3	1	LS	\$	\$
0021	GALLERY PLACE WEST	3	1	LS	\$	\$
0022	GALLERY PLACE NORTH	3	1	LS	\$	\$
0023	JUDICIARY SQUARE WEST	3	1	LS	\$	\$
0024	JUDICIARY SQUARE EAST	3	1	LS	\$	\$
0025	UNION STATION NORTH	3	1	LS	\$	\$
0026	NEW YORK AVE. SOUTH	3	1	LS	\$	\$
0027	NEW YORK AVE. NORTH	3	1	LS	\$	\$
0028	RHODE ISLAND	3	1	LS	\$	\$
0029	BROOKLAND/CUA	3	1	LS	\$	\$
0030	FORT TOTTENIII	3	1	LS	\$	\$
0031	TAKOMA	3	1	LS	\$	\$
0032	SILVER SPRING-SOUTH	3	1	LS	\$	\$
0033	SILVER SPRING-NORTH	3	1	LS	\$	\$



- 1) Proposed material modifications to insurance required under this Section must be received by WMATA at least 30 days prior to the effective date of the proposed modifications to such insurance.
- 2) WMATA's receipt of copies of any COI, policy endorsements or policies does not relieve Contractor of the obligation to remain in compliance with the requirements of this Section at all times. Contractor's failure to comply with these insurance requirements shall constitute a material breach of this Contract.
- 3) Receipt of the COI does not constitute acceptance of the insurance outlined above.

#### 00878 LIQUIDATED DAMAGES

Modify Section 00778, LIQUIDATED DAMAGES, to delete Paragraph A. and substitute the following Paragraph and subparagraphs:

- A. The Contractor understands that if it fails to complete portions of or all of the Work as described in Section 00824, PERIOD OF PERFORMANCE AND PROJECT SCHEDULE, the Authority will suffer damages, which have been estimated and are as specified below:
  1. If the Contractor fails to complete the work within the time specified in the contract, the Contractor shall pay liquidated damages to the Authority in the amount of **\$2,200.00** for each calendar day of delay until the work is completed or accepted, but no more than 10% of the overall contract value including all modifications. This amount reflects the Authority's best estimate of lost revenue and/or increased costs arising out of the contractor's failure to complete its work in a timely fashion.
  2. If the Authority terminates the Contractor's right to proceed, liquidated damages will continue to accrue until the work is completed. These liquidated damages are in addition to excess costs of repurchase under the Termination clause.

#### 00888 FEDERAL REGULATIONS AND CLAUSES

Modify Section 00788, FEDERAL REGULATIONS AND CLAUSES, to delete Paragraph O.3 and substitute the following:

1. The goal of DBE participation established for this Contract is 20 percent of the Contract Price.

#### 00889 PARTNERING.

Modify Section 00700, GENERAL CONDITIONS, to add the following Section:

**#AM400889 PARTNERING (N/A)#AM4**

#### 00890 AVAILABILITY OF FUNDS FOR THE NEXT FISCAL YEAR.

Modify Section 00700, GENERAL CONDITIONS, to add the following Section:

#### 00790 AVAILABILITY OF FUNDS FOR THE NEXT FISCAL YEAR

- A. Funds are not presently available for performance under this Contract beyond the fiscal year, which ends June 30, 2016. The Authority's obligation for performance of this Contract beyond that date is contingent upon the availability of funds from which payment for Contract purposes can be made. No

**SECTION 01110**  
**SUMMARY OF WORK**

PART 1 – GENERAL

1.01 SUMMARY

- A. Contractor shall furnish and install new conduit and new electrical and data cables to support new fare equipment and systems. The work includes the installation of new under-floor duct and conduit raceways, electrical cabling circuits, and data cables at 34 station mezzanines in Washington, D.C. and Maryland.
- B. Contractor deliverables include:
1. Project Schedule
  2. Weekly Schedule and Four-Week Look-Ahead Schedule
  3. Daily Work Plan
  4. Safety Plan and SSWP
  5. Project QA/QC Plan
  6. Installation Plan (new raceway locations)
  7. Power Cable Megohmmeter Test Results
  8. Data Cable Test Results
  9. Cable Wiring Diagrams
  10. As-Built Mezzanine Schematics of In-Floor Duct, Conduit, Power Circuits, and Data Cables
- C. The Contractor shall provide all necessary labor, supervision, material, supplies, tools, product, equipment, storage, transportation, and other items needed to satisfactorily complete the project.
- D. The finished product shall function and be installed as fully-compatible with the existing WMATA system.
- E. The work at the station mezzanines will not require track access rights.
- F. As specified in Table 1, one or more of the following tasks will be performed at each station mezzanine:
1. Task 1a - Installation of Under-Floor Duct (Electrical)
  2. Task 1b - Installation of Exposed Conduit (Electrical)
  3. Task 1c - Installation of Faregate Array Under-Floor Duct (Data)
  4. Task 1d - Duct Repair
  5. Task 1e - Installation of Faregate Array Under-Floor Duct (Power)
  6. Task 2a - CAT6 Installation and Termination
  - #AM4** 7. Task 2b - Existing CAT6 Termination Only, faregates **#AM4**
  - #AM4** 8. Task 2c - Existing CAT6 Termination Only, vending machines **#AM4**
  9. Task 3 - Installation and Termination of Electrical Circuit Cable
  10. Task 4a - Installation of Fire Alarm Cable at Faregate Arrays
  11. Task 4b - Installation of Fire Alarm Cable to Mini-Mezzanine Faregate Array

#AM4

#	Location		Summary of Work Tasks								
	Mezzanine Location	Mezz ID	1a	1b	1c	2a	2b	2c	3	4a	4b
1	METRO CENTER WEST	001					X	X	X	X	
2	METRO CENTER EAST	019				X		X	X	X	
3	METRO CENTER NORTH	035					X	X	X	X	
4	METRO CENTER SOUTH	052					X	X	X	X	
5	FARRAGUT NORTH SE.	002		X		X		X	X	X	
6	FARRAGUT NORTH NW.	003		X		X		X	X	X	
7	FARRAGUT NORTH NE.	004				X		X		X	
8	DUPONT CIRCLE SO.	005				X		X		X	
9	WOODLEY PARK ZOO	007				X		X		X	
10	CLEVELAND PARK	008		X		X		X	X	X	
11	VAN NESS UDC	009		X		X		X	X	X	
12	TENLEYTOWN	010		X		X		X	X	X	X
13	FRIENDSHIP HEIGHTS NO.	011				X		X	X	X	
14	FRIENDSHIP HEIGHTS SO.	104		X		X		X	X	X	
15	GROSVENOR	014		X		X		X	X	X	
16	WHITE FLINT	015				X		X	X	X	
17	TWINBROOK	016				X		X	X	X	
18	ROCKVILLE	017				X		X	X	X	
19	GALLERY PLACE WEST	020		X		X		X	X	X	
20	GALLERY PLACE NORTH	069				X		X	X	X	
21	JUDICIARY SQUARE WEST	022				X		X		X	X
22	JUDICIARY SQUARE EAST	023					X	X	X	X	
23	UNION STATION NORTH	025		X		X		X	X	X	
24	NEW YORK AVE. SOUTH	108		X		X		X	X	X	
25	NEW YORK AVE. NORTH	109		X		X		X	X	X	
26	RHODE ISLAND	026				X		X	X	X	
27	BROOKLAND/CUA	027	X	X	X	X		X	X	X	
28	FORT TOTTEN	028	X	X	X	X		X	X	X	
29	TAKOMA	029	X	X	X	X		X	X	X	X
30	SILVER SPRING- SOUTH	030				X		X	X	X	X
31	SILVER SPRING- NORTH	031				X		X	X	X	
32	FOREST GLEN	032				X		X		X	
33	WHEATON	033				X	X	X	X	X	
34	GLENMONT	034				X	X	X	X	X	

Task 1a- Installation of Under-Floor Duct (Electrical)

Task 1b- Installation of Exposed Conduit (Electrical)

Task 1c- Installation of Faregate Array Under-Floor Duct (Data)

Task 2a- CAT6 Installation **and** Termination (both ends)

Task 2b- Existing faregates' CAT6 cable termination **only** (both ends)

Task 2c- Existing vending machines' CAT6 cable termination **only** (both ends)

Task 3- Installation **and** Termination of Electrical Circuit Cable

Task 4a- Installation of Fire Alarm Cable at Faregate Arrays

Task 4b- Installation of Fire Alarm Cable to Mini-Mezzanine Faregate Array

#AM4



K. Salvaging of Materials and Equipment: Salvaged material not specified for reuse shall become the property of the Contractor and shall be removed from the site

#AM4 PART 2 – PRODUCTS

Quantity Table Listing:

Item	QTY	Notes
1-1/4" Conduit	375	ft, GRS with accessories
1-1/2" Conduit	520	ft, GRS with accessories
2" Conduit	60	ft, GRS with accessories
CAT6 Cable	10,322	ft
Power Cable	31,170	ft, #10
Power Cable	13,074	ft, #8
Power Cable	1,140	ft, #6
Distribut. Box	35	Under Kiosk floor (JB, LFMC, connectors)
EMG Gate Cable	9,992	ft, Gate open EMG from F/A System
U/F Duct (new)	920	#4 duct / ft, plus couplers
Duct HH (new)	73	piece
Duct Misc (new)	19	Adapters, sealant and/or other needed items
Duct Adapter	76	For conduit connection at each faregate duct Tee
Quad-Outlet	102	120V power
CAT6 module	454	CAT6 single-jack module, Ortronics #OR-S21600
Outlet box	454	Surface-mount outlet box, Ortronics #OR-404S21U

Variation in estimated quantities is further described in Volume 1, Section 00743 applies to this Quantity Table above. #AM4

PART 3 – EXECUTION (see Section 01117)

END OF SECTION

3. Route cable from below the raised floor to a WMATA-designated bay/cabinet location housing with an existing patch-panel rack.
4. Leave 15 feet of additional cable length under the Kiosk raised floor and an additional length of 6 feet within the faregate cabinet (all cables shall be coiled and secured with a Velcro strap).
5. Terminate CAT6 cables to the patch panel in the Kiosk and to the surface-mount Ethernet jack inside the faregate cabinet on the other end.
6. Terminate the Kiosk-end of the CAT6 cable to an existing 48-port patch panel in the rack using Ortronics part #OR-PHD66U48 or equivalent as approved by WMATA. Refer to the Patch Panel Port assignment and insert layout in the attachments.
7. Terminate the Faregate-end of the cable to an existing front-loading CAT6 single-jack module (Ortronics part #OR-S21600 or equivalent as approved by WMATA) to be installed into a surface-mount outlet box (Ortronics part #OR-404S21U or equivalent as approved by WMATA). The jack and outlet box shall be stored securely and neatly inside the faregate cabinet with the adhesive tape backing untouched. The Contractor shall furnish and install parts #OR-S21600 and #OR-404S21U.
8. Tag the cable ends with a Cable ID according to WMATA AFC and IT/NCS labeling standard using all capital, black letters on white ID heat-shrink tubing or sleeve. WMATA shall provide the contractor with a cable tag ID sheet for each kiosk.
9. Ensure that all CAT6 cable terminations conform to a 568B pinout and the port configuration per the Ethernet Switch port termination table to be provided by WMATA.
10. Perform the CAT6 cable test as defined in the WMATA Department of Information Technology, Network and Communications Services Infrastructure Design and Wiring Standards. Use CAT6/RJ-45 LAN cable tester/analyzer at both cable ends to verify circuit integrity for each of the four circuits in the CAT6 cable. Equipment shall be certified calibrated within 12 months. WMATA IT/NCS department must be present to observe initial cable testing.

#### #AM4 Task 2c: Existing CAT6 Termination Only, Vending Machines

The Contractor shall:

1. Terminate and test the existing CAT6 cables that are installed between the fare vending machines, in both paid and free areas, that are currently coiled under the floor of the Kiosk.
2. The 4-inch long section of 3-inch GRS conduit is installed under Task 2b above.
3. Route cable from below the raised floor to a WMATA-designated bay/cabinet location housing with an existing patch-panel rack.
4. Leave 15 feet of additional cable length under the Kiosk raised floor and an additional length of 6 feet within the faregate cabinet (all cables shall be coiled and secured with a Velcro strap).
5. Terminate CAT6 cables to the patch panel in the Kiosk and to the surface-mount Ethernet jack inside the faregate cabinet on the other end.
6. Terminate the Kiosk-end of the CAT6 cable to an existing 48-port patch panel in the rack using Ortronics part #OR-PHD66U48 or equivalent as approved by WMATA. Refer to the Patch Panel Port assignment and insert layout in the attachments.
7. Terminate the vending machine-end of the cable to an existing front-loading CAT6 single-jack module (Ortronics part #OR-S21600 or equivalent as approved by WMATA) to be installed into a surface-mount outlet box (Ortronics part #OR-404S21U or equivalent as approved by WMATA). The jack and outlet box shall be stored securely and neatly inside the faregate cabinet with the adhesive tape backing untouched. The Contractor shall furnish and install parts #OR-S21600 and #OR-404S21U.
8. Tag the cable ends with a Cable ID according to WMATA AFC and IT/NCS labeling standard using all capital, black letters on white ID heat-shrink tubing or sleeve. WMATA shall provide the contractor with a cable tag ID sheet for each kiosk.
9. Ensure that all CAT6 cable terminations conform to a 568B pinout and the port configuration per the Ethernet Switch port termination table to be provided by WMATA.
10. Perform the CAT6 cable test as defined in the WMATA Department of Information Technology, Network and Communications Services Infrastructure Design and Wiring Standards. Use CAT6/RJ-45 LAN cable tester/analyzer at both cable ends to verify circuit integrity for each of the four circuits in the CAT6 cable. Equipment shall be certified calibrated within 12 months. WMATA IT/NCS department must be present to observe initial cable testing. #AM4

**SECTION 01141**  
**ACCESS TO SITE**

PART 1 – GENERAL

1.01 SUMMARY

- A. This Section specifies requirements for gaining access to Site and describes work hours the Contractor will be allowed in WMATA Trackway and Operating Facilities.

1.02 DEFINITIONS:

- A. Non-Revenue Hours of Work – When the Authority is not operating revenue service trains and the track/work area is made available to the Contractor.
- B. Revenue Service Adjustment (RSA) Hours of Work – These are the service conditions:
1. Single tracking when a single track is made available to the Contractor to work while the Authority operates trains in both directions on the opposite track.
  2. Shutdowns when both tracks of a section of line are made available to the Contractor to work.
  3. Actual work tasks shall begin at station closing time or at the discretion of WMATA. Work staging, site/safety meetings and other preparation may be done before close as directed by WMATA.

1.03 IDENTIFICATION CARDS

- A. All Contractor personnel needing access to trackway or WMATA operating facilities must have WMATA Safety Certification badges. Additionally, Contractor shall provide its personnel, visiting or working at the Site, with Contractor Photo ID Badges. Both badges shall be displayed in a prominent manner on each person while engaged in the Work. Access to the Site will be granted only to properly accredited representatives of the Contractor and its Subcontractors when they have completed the required WMATA safety certification and training and received Photo ID Badges.

1.04 HOURS OF WORK

- A. Work such hours per shift, with or without overtime, as many shifts per day and as many days per week as necessary to complete the various parts of the Work and the entire Work within the dates specified and within the restrictions listed below.
- B. Work within WMATA trackway, on station platforms, station mezzanines and/or intermediate station levels, and within WMATA operating facilities affecting revenue service shall be carried out during non-revenue hours and/or Revenue Service Adjustment (RSA) hours and under the oversight of WMATA escorts.
- C. Coordinate and schedule all work with the Contracting Officer Representative to ensure that the Contractor's activities do not interfere with the operation of or access to the Authority's facilities.
- #AM4** D. Typical working hours for this task will be from 2200 to 0500. Monday work period will officially begin the previous day, Sunday, at 2200 hour. Task(s) that impact revenue service shall not begin until the station is closed, and finish completely by 0400. **#AM4**
- E. WMATA periodically extends service hours to accommodate customers during sporting or other large scheduled events. WMATA will notify Contractors of reductions in available working hours

### Task 1e: Installation of Faregate Array Under-Floor Duct (Electrical)

Follow steps 1 through 8 and 11 in section 1c above for installation of U/F duct for power cables. (Power circuit cables will not be installed.) Steps 9 and 10:

9. Install pull-string from under the Kiosk floor near the newly installed junction box to each faregate cabinet in the installed duct. Loop pull-string around JB.
10. Install a pull-string between each adjacent faregate cabinet in the installed duct.

### Task 2a: CAT6 Installation and Termination

The Contractor shall:

1. Furnish and install a CAT6 cable and pull-string from the Kiosk to each faregate cabinet in underfloor duct.
2. Existing pull-string from faregate cabinet to Kiosk shall be used to pull new CAT6 and new pull-string.
3. Install a 4-inch long section of 3-inch GRS conduit as a sleeve through the Kiosk raised floor to allow routing of CAT6 cables from under-floor to a location in the rear corner of the rack cabinet (refer to Kiosk layout in attachments). Debur both ends of the conduit to eliminate any sharp edges and install conduit bushing.
4. Route cable from below the raised floor to a WMATA-designated bay/cabinet location housing with an existing patch-panel rack.
5. Leave 15 feet of additional cable length under the Kiosk raised floor and an additional length of 6 feet within the faregate cabinet (all cables shall be coiled and secured with a Velcro strap).
6. Terminate CAT6 cables to the patch panel in the Kiosk and to the surface-mount Ethernet jack inside the faregate cabinet on the other end.
7. Terminate the Kiosk-end of the CAT6 cable to an existing 48-port patch panel in the rack using Ortronics part #OR-PHD66U48 or equivalent as approved by WMATA. Refer to the Patch Panel Port assignment and insert layout in the attachments.
8. Terminate the Faregate-end of the cable to an existing front-loading CAT6 single-jack module (Ortronics part #OR-S21600 or equivalent as approved by WMATA) to be installed into a surface-mount outlet box (Ortronics part #OR-404S21U or equivalent as approved by WMATA). The jack and outlet box shall be stored securely and neatly inside the faregate cabinet with the adhesive tape backing untouched. The Contractor shall furnish and install parts #OR-S21600 and #OR-404S21U.
9. Tag the cable ends with a Cable ID according to WMATA AFC and IT/NCS labeling standard using all capital, black letters on white ID heat-shrink tubing or sleeve. WMATA shall provide the contractor with a cable tag ID sheet for each kiosk.
10. Ensure that all CAT6 cable terminations conform to a 568B pinout and the port configuration per the Ethernet Switch port termination table to be provided by WMATA.
11. Perform the CAT6 cable test as defined in the WMATA Department of Information Technology, Network and Communications Services Infrastructure Design and Wiring Standards. Use CAT6/RJ-45 LAN cable tester/analyzer at both cable ends to verify circuit integrity for each of the four circuits in the CAT6 cable. Equipment shall be certified calibrated within 12 months. WMATA IT/NCS department must be present to observe initial cable testing. If test fails re-check terminations; pull new CAT6 cable if test still fails.

### #AM4 Task 2b: Existing CAT6 Termination Only, Faregates #AM4

The Contractor shall:

- #AM4 1. Terminate and test the existing CAT6 cables that are installed between the faregates that are currently coiled under the floor of the Kiosk. #AM4
2. Install a 4-inch long section of 3-inch GRS conduit as a sleeve through the Kiosk raised floor to allow routing of existing CAT6 cables from under-floor to a location in the rear corner of the rack cabinet (refer to Kiosk layout in attachments). Debur both ends of the conduit to eliminate any sharp edges and install conduit bushing.