

**Board Report**

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**File #:** 2023-0139, **File Type:** Contract**Agenda Number:** 17.

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**FINANCE, BUDGET AND AUDIT COMMITTEE  
JUNE 14, 2023****SUBJECT: UPGRADE TAP VENDING MACHINES TO MAINTAIN EMV/PCI COMPLIANCE****ACTION: APPROVE CONTRACT MODIFICATION****RECOMMENDATION**

AUTHORIZE the Chief Executive Officer to execute Modification No. 173 to Contract No. OP02461010 with Cubic Transportation Systems, Inc. ("Cubic"), so that the TAP Vending Machines can accept payment from credit and debit cards with chips to remain payment card industry (PCI) compliant. This includes upgrades of computer hardware, the Oracle Database, and a Cubic Payment Application (CPA) in the amount of \$12,364,519, increasing the total contract value from \$389,251,345 to \$401,615,864.

**ISSUE**

TAP Vending Machines, or TVMs, are installed at rail stations and major bus stops. The TVMs provide on-site access to the customers to purchase fare products and access TAP card information. The operating systems and hardware are reaching the end of life and require an update to receive system patching and support services to maintain network security and remain PCI compliant. The upgrades will also make the hardware ready for open payment technology that uses debit and credit cards for payment.

This contract modification includes two major changes for credit and debit card cybersecurity and compliance. They are:

- a) Implement payment card industry (PCI) software modifications to comply with banking requirements for accepting credit and debit card fare payment.
- b) Implement software, computer hardware, and EMV (Europay, Mastercard, and Visa) chip reading capability to transfer the liability for fraudulent credit card usage from Metro back to the card issuers.

**BACKGROUND**

The original Contract No. OP02461010 was awarded by the Board on February 28, 2002. The Universal Fare System was last upgraded in 2016. While the system continues to be maintained by the Cubic Support Services Maintenance Agreement, an upgrade of the software and hardware is

needed to help ensure the continued reliability and security of the system.

TAP has grown significantly over the years. TAP is now accepted by 26 transit agencies including, but not limited to, Culver CityBus, Foothill Transit, Long Beach Transit, Santa Monica Big Blue Bus, Torrance Transit, and Angels Flight. TAP can be purchased at almost 1,900 locations throughout Los Angeles County, including Los Angeles County Libraries, online at [taptogo.net](http://taptogo.net), rail stations, and major bus hubs.

## **DISCUSSION**

To meet the controls for the new Payment Card Industry Secure Software Framework (PCI-SSF) certification and in support of the annual PCI certification assessment of the TAP system at the end of the calendar year 2023, several subsystems require updating. The update includes the purchase, installation, and modification of the Cubic Payment Application (CPA), Oracle Database software, Windows Operating System software, and hardware for the TAP Vending Machines (TVMs).

The second major change is for EMV, which is a technology and payment method designed to limit fraud by using embedded computer chips on credit and debit cards instead of a magnetic stripe card that is currently used on the TVMs. Businesses that do not use systems that accept EMV (chip) cards may become liable for certain fraudulent card transactions.

TAP's fare collection system requires a version upgrade of the system software to ensure continued reliability and compliance with the latest credit/debit processing standards and patron security. The upgrade involves enhancement in the credit card processing component. It also includes the upgrade of computers and card readers in 577 TVMs.

The update reflects the best approach for extending the life of the existing system, to remain PCI compliant and become EMV compliant, while laying the groundwork for the next generation of payment card technologies. This modification is slated to take up to 16 months to complete after the Notice-To-Proceed is issued.

## **FINANCIAL IMPACT**

The project is an approved capital project and is funded in the budget. The fiscal year 2024 funding in the amount of \$2,000,000 is included in Cost Center 5440 Revenue Collection in Project 207167.

As this is a multi-year contract, the Senior Executive Officer of TAP Operations and the Executive Officer of TAP/Revenue Collection are responsible for budgeting all future year budget requirements.

### Impact to Budget

The funding for these services is from Proposition C 40% and fare revenues. These funds are eligible for bus and rail operating and capital expenses.

## **EQUITY PLATFORM**

The system upgrade will provide a benefit for TAP users paying with debit/credit cards by ensuring confidence that their card payment is secure and in compliance with EMV and PCI regulations. In addition, the system improvements will provide faster and more secure sales transactions, which is expected to better serve Metro customers, who often rely on transit as a sole mobility option.

## **IMPLEMENTATION OF STRATEGIC PLAN GOALS**

The upgrade of the software and hardware for Universal Fare Collection system will support:

- Strategic Plan Goal #2: Deliver outstanding trip experiences for all users of the transportation system.
- Strategic Plan Goal #5: Provide responsive, accountable, and trustworthy governance with the LA Metro organization.

## **ALTERNATIVES CONSIDERED**

The Board may choose not to approve the modification of the contract to include the TVM system upgrade project. This could result in fines of up to \$100,000/month for each brand (DiscoverCard, MasterCard, Visa, and American Express) or \$4.92M over 16 months, higher transaction fees, termination of Metro's card payment merchant agreement, repetitive violation fines, legal costs, settlements, and judgments due to incidents of compromised data, and the inability to maintain system support, patch and upgrade the TVM and its operating systems. This is not recommended as the TVM and software system upgrade is required to maintain EMV and PCI compliance, which are necessary to avoid additional expenses and to maintain a cost-effective debit and credit card merchant agreement. In addition, the TVMs in their current state cannot accommodate new fare payment technology (open payment and account-based systems).

## **NEXT STEPS**

Upon approval by the Board, staff will execute Modification No. 173 to Contract No. OP02461010 with Cubic Transportation Systems, Inc. for the TVM upgrade for EMV and PCI compliance.

## **ATTACHMENTS**

Attachment A - Procurement Summary  
Attachment B - Contract Modification/Change Order Log  
Attachment C - DEOD Summary

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Reviewed by: Nalini Ahuja, Chief Financial Officer, (213) 922-3088



Stephanie N. Wiggins  
Chief Executive Officer

## PROCUREMENT SUMMARY

## UNIVERSAL FARE SYSTEM / OP02461010

1.	<b>Contract Number:</b> OP02461010		
2.	<b>Contractor:</b> Cubic Transportation Systems, Inc.		
3.	<b>Mod. Work Description:</b> Upgrade TAP Ticket Vending Machines (TVMs) and core server		
4.	<b>Contract Work Description:</b> Universal Fare System		
5.	<b>The following data is current as of:</b> April 12, 2023		
6.	<b>Contract Completion Status</b>		<b>Financial Status</b>
	<b>Contract Awarded:</b>	2/28/2002	<b>Contract Award Amount:</b> \$84,003,444
	<b>Notice to Proceed (NTP):</b>	3/7/2002	<b>Total of Modifications Approved:</b> \$305,247,901
	<b>Original Complete Date:</b>	9/1/2007	<b>Pending Modifications (including this action):</b> \$12,364,519
	<b>Current Est. Complete Date:</b>	12/31/2024	<b>Current Contract Value (with this action):</b> \$401,615,864
7.	<b>Contract Administrator:</b> Anush Beglaryan		<b>Telephone Number:</b> (213) 418-3047
8.	<b>Project Manager:</b> Tisha Bruce		<b>Telephone Number:</b> (213) 922-7621

**A. Procurement Background**

This Board Action is to approve Contract Modification No. 173 for the upgrade of TAP (Transit Access Pass) Ticket Vending Machines (TVMs) and core server.

In order to maintain Payment Card Industry Secure Software Framework (PCI-SSF) compliance and support PCI certification, several updates to the TAP system are necessary. The Universal Fare System (UFS) was last updated in 2016. While the system continues to be maintained by Cubic Transportation Systems, Inc. (Cubic) support services maintenance agreement, an upgrade of software and hardware is needed to help ensure continued reliability and security of the system.

This Contract Modification will be processed in accordance with Metro's Acquisition Policy.

On February 28, 2002, Contract No. OP02461010 was awarded by the Metro Board to Cubic to provide a countywide fare collection system to serve Metro’s public transit customers. Cubic developed the NextFare software application and related databases which is the core technology managing the entire TAP network consisting of bus and rail equipment and devices. NextFare communicates with all of the fare collection devices which contain proprietary intellectual property. Therefore, Cubic is the only company that can provide and maintain the necessary upgrades of the software and hardware.

Please refer to Attachment B – Contract Modification/Change Order Log.

**B. Price Analysis**

The recommended price has been determined to be fair and reasonable based upon price analysis, technical evaluation, and independent cost estimate. There is a 24% increase in quantity of hardware acquired throughout the years, which needs to be upgraded. The tax rate along with inflation accounts for an increase in cost in comparison to previous upgrades.

<b>Proposal Amount</b>	<b>Metro ICE</b>	<b>Recommended Amount</b>
\$12,364,519	\$12,417,198	\$12,364,519

## CONTRACT MODIFICATION/CHANGE ORDER LOG

## UNIVERSAL FARE SYSTEM / OP02461010

Mod. No.	Description	Status (approved or pending)	Date	Amount
1	Table X-1 Milestone Changes	Approved	8/19/2002	\$0.00
2	Ticket Vending Machine Soft Keys	Approved	9/4/2002	\$0.00
3	San Fernando Valley BRT, Additional Quantities	Approved	4/13/2004	\$7,454,844
4	Modification to General Conditions	Approved	10/8/2002	\$0.00
5	TVM Third Coin Hopper	Approved	8/22/2003	\$416,858
6	Stand Alone Validator Video Clips	Approved	3/3/2003	\$0.00
7	Gold Line Functional Test Waiver	Approved	2/13/2003	\$0.00
8	Languages Supported	Approved	2/13/2004	\$0.00
9	Modifications to Compensation & Payment	Approved	2/20/2003	\$0.00
10	Smart Card to Smart Card Value Transfer	Approved	3/3/2003	\$0.00
11	SCADA Cable Installation on Gold Line	Approved	3/3/2003	\$48,476
12	Gold Line Functional Test Waivers	Approved	4/8/2003	\$0.00
13	Farebox Coin Dejam	Approved	4/8/2003	\$0.00
14	Change in Milestone Schedule	Approved	4/16/2003	\$0.00
15	Time Extension, Gold Line	Approved	7/1/2003	\$0.00
16	Change from Datastream MP5 to Express Metrix	Approved	7/1/2003	\$0.00
17	Final Design Review, changes in CDRLS	Approved	7/18/2003	\$0.00
18	Deletion of Printer from Hand Held Validator	Approved	1/6/2004	-\$35,252
19	Variable Message Sign	Approved	2/19/2004	\$243,828
20	Changes to Compensation and Payment	Approved	4/7/2004	\$0.00
21	PCMCIA Card Slot use for WAN	Approved	4/13/2004	\$0.00

**ATTACHMENT B**

<b>Mod. No.</b>	<b>Description</b>	<b>Status (approved or pending)</b>	<b>Date</b>	<b>Amount</b>
22	Data Transmission System	Approved	6/22/2004	\$675,000
23	Mifare Card Initialization and Verification	Approved	6/8/2004	\$9,629
24	Farebox Mounting Adapter for NABI Buses	Approved	7/9/2004	\$32,485
25	Provide Regional CDCS	Approved	2/25/2005	\$5,348,335
25.01	Regional CDCS Overhead Rate Adjustment	Approved	1/17/2007	-\$31,621
25.02	Regional CDCS Acceptance Test Participants	Approved	8/7/2008	\$0.00
26	Remove Requirement for Focus Groups	Approved	12/20/2004	-\$111,704
27	Farebox Rotation	Approved	1/4/2005	\$74,967
28	Metro Gold Line Eastside Extension, Fare Equipment	Approved	7/25/2006	\$3,808,722
29	Stainless Steel Panels for TVM Alcoves	Approved	4/25/2005	\$45,521
30	Data Communication Cabling for Orange Line	Approved	6/10/2005	\$41,560
31	(Not Used)			
32	Additional Spare Part Quantities for Eastside Ext.	Approved	7/25/2005	\$15,480
33	Mifare Card Functionality on UFS	Approved	8/15/2005	\$33,105
34	Revisions to Project Schedule	Approved	10/26/2000	\$0.00
35	OCU Mount	Approved	11/15/2005	\$87,634
36	(Not Used)			
37	Deductive Change for Line 1.36	Approved	4/6/2007	-\$33,116
38	Installation of Third TVM and Relocation of Two SAVs and Blue Line Willow Station	Approved	7/6/2006	\$10,084
39	Upgrade the CDCS System from IB SSA Disk Storage Subsystem to Fiber Disk	Approved	10/2/2006	\$20,000
40	UFS Equipment for Expo Line	Approved	2/16/2007	\$5,197,204
41	(Not Used)			
42	(Not Used)			



**ATTACHMENT B**

<b>Mod. No.</b>	<b>Description</b>	<b>Status (approved or pending)</b>	<b>Date</b>	<b>Amount</b>
43	HHV, PMOS and CPOS Interim Maintenance Deductive Change	Approved	2/16/2007	-\$162,628
44	UFS Additional Quantities for Contracted Services	Approved	2/16/2007	\$2,499,916
45	Replace Go-Cards with Mi-Fare Cards	Approved	2/16/2008	-\$1,157,850
46	Relocation of Data Probes and Receive Vaults at Division 7	Approved	4/9/2007	\$29,787
47	Revisions to US Base and Regional Manuals for Release to ACS	Approved	4/23/2007	\$46,000
48	Expo Line, Pico Station Infrastructure	Approved	7/18/2007	\$18,542
49	Relocation of UFS Lab Equipment	Approved	6/2/2008	\$106,905
50	Expo 7 <sup>th</sup> and Metro Additional Infrastructure	Approved	8/30/2007	\$81,719
50.01	Expo 7 <sup>th</sup> and Metro Infrastructure Deductive change	Approved	8/30/2007	-\$30,173
51	Handheld Validator Holster	Approved	10/16/2007	\$6,184
52	Installation and Testing of Farebox at Transportation Concepts	Approved	3/6/2008	\$16,091
53	Relocate OCUs on Ford Cutaways and MST Buses at Contracted Services	Approved	5/14/2008	\$79,170
54	Installation of one Farebox and Testing for two Fareboxes at Contracted Services	Approved	5/27/2008	\$18,842
55	UFS Quantity Adjustments	Approved	10/9/2008	\$0.00
56	Contracted Bus Service Equipment Change	Approved	12/3/2008	\$36,704
57	Installation and Acceptance Testing of One Farebox at First Transit	Approved	12/19/2008	\$3,040
58	Provide UFS Equipment for Expo from Culver City to Venice/Robertson Aerial Station	Approved	3/4/2009	\$304,246

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<b>Mod. No.</b>	<b>Description</b>	<b>Status (approved or pending)</b>	<b>Date</b>	<b>Amount</b>
59	Regional CDCS Electrical Power Reconfiguration	Approved	2/9/2009	\$17,186
60	Rail Equipment Warranty and Bus Equipment Warranty	Approved	2/19/2009	\$0.00
61	TAP Enables Turnstile Fare Gates for Rail Stations	Approved	4/9/2009	\$10,000,000
62	Provide UFS Equipment for Expo Truesdale Station	Approved	3/4/2009	\$284,167
63	System Support Services	Approved	6/8/2010	\$33,988,558
63.01	SSS, Additional Costs	Approved	3/22/2013	\$677,631
63.02	SSS, Orange Line Credits	Approved	3/22/2013	-\$58,243
63.03	SSS, One-year Extension	Approved	3/22/2013	\$8,148,263
64	\$5 Dollar Bill handling Unit for Fareboxes and TVMs	Approved	7/27/2009	\$304,658
65	Installation of Additional SAVs for Eastside Extension	Approved	1/4/2010	\$34,077
66	Relocation of Wing Gate at MRL Wilshire/Normandie Station	Approved	2/2/2010	\$18,905
67	(Not Used)	Approved		
68	UFS Equipment for Orange Line Extension	Approved	11/2/2010	\$2,749,476
68.01	Transfer Maintenance Dollars to 63.01	Approved	1/25/2013	-\$677,631
68.02	UFS Equipment for Orange Line Extension, Credits	Approved	3/22/2013	-\$10,982
69	Additional TVM at Aviation Greenline Station	Approved	4/2/2010	\$13,031
70	TAP Card Physical Testing	Approved	4/28/2010	\$41,844
70.01	TAP Card Physical Testing	Approved	3/22/2013	\$12,658
71	Concession Light Functionality	Approved	6/30/2010	\$96,726
72	(Not Used)	Approved		
73	API Test Server Imaging	Approved	9/9/2010	\$45,024
74	Contract Services Relocation	Approved	11/1/2010	\$33,854
75	Limited Function Sales Office Terminals, Increase Quantity	Approved	2/15/2011	\$993,795

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<b>Mod. No.</b>	<b>Description</b>	<b>Status (approved or pending)</b>	<b>Date</b>	<b>Amount</b>
76	CISCO ASA Acquisition and Implementation for API Test and Production Servers	Approved	2/28/2011	\$59,209
77	Cubic LU Key Installation	Approved	3/3/2011	\$69,097
78	Updates Farebox Configuration to Support ARUB Wireless Security Data Transfer	Approved	3/3/2011	\$40,204
79	Relocation of UFS Test Lab Equipment	Approved	4/25/2011	\$80,911
80	7 Byte UID Support	Approved	4/20/2011	\$362,069
81	Fare Gate Fencing Installation Modifications, North Hollywood and Avalon Stations	Approved	4/25/2011	\$24,004
82	Additional TVM at Hollywood/Western Redline Station	Approved	4/25/2011	\$15,531
83	Purchase Drive Control Unit Light Validators DCU-LV	Approved	4/25/2011	\$363,492
84	Install TVMs at Three Metro customer Centers	Approved	6/6/2011	\$386,680
85	Cubic Modification to Gate Software/Locking Commands	Approved	6/29/2011	\$111,188
86	UFS Equipment for Expo Phase I Farmdale Station	Approved	7/26/2011	\$415,184
87	Relocation of TVMs at the Green Line Long Beach Station	Approved	8/25/2011	\$15,909
88	Mobile Validator Non-Recurring Engineering System Development	Approved	10/12/2011	\$611,677
89	Expo Pico Station North Platform TVM/SAV Work	Approved	3/5/2012	\$17,592
90	Deletion of Contract Line Items 1.03, 1.04 & 1.33	Approved	2/15/2012	-\$20,622
91	Orange Line Installation of 12 Metro Provided SAVs	Approved	2/15/2012	\$34,483
92	(Not Used)			
93	(Not Used)			

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<b>Mod. No.</b>	<b>Description</b>	<b>Status (approved or pending)</b>	<b>Date</b>	<b>Amount</b>
94	System Support Services, Six Year Extension	Approved	7/1/2013	\$55,000,000
94.01	(Not Used)			
94.02	System Support Services for Expo II and Foothill Extension	Approved	3/2/2015	\$1,152,749
94.03	Maintenance Support Services for 54 TVMs	Approved	4/14/16	\$838,211
95	UFS Equipment Storage Costs	Approved	6/13/2012	\$4,129
96	Faregating, Three Additional Swing Gates	Approved	2/4/2013	\$44,611
97	Green Line Faregating Additional Fire Key Switches at Vermont Station	Approved	4/1/2013	\$8,392
98	Emergency Swing Gate Upgrades	Approved	4/15/2013	\$252,145
99	Removal of TVM from Wilshire/LaBrea Customer Center	Approved	10/8/2013	\$4,883
100	Supplying and Supporting a Turn Key Mobile Validator System	Approved	7/1/2013	\$2,996,113
101	Bus Division Vault Relocation	Approved	8/1/2013	\$995,940
102	Install One TVM at East Portal Customer Service Center and One at Culver City Station	Approved	10/8/2013	\$252,905
103	EI Monte Bus Facility TVMs	Approved	10/15/2013	\$474,753
104	Fare Gate Consoles for Expo 2, Colorado/4 <sup>th</sup> Street Station	Approved	5/26/2014	\$380,000
105	TVM and SAV Relocations	Approved	12/16/2013	\$1,456,632
106	Modification to Nextfare to Allow For Segregation of Facility Specific Data	Approved	1/29/2014	\$647,869
107	Passback Modification	Approved	2/18/2014	\$70,301
108	UFS PCI Compliance	Approved	10/23/2014	\$9,015,319
109	Service Provider Support	Approved	6/14/2014	\$66,777

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<b>Mod. No.</b>	<b>Description</b>	<b>Status (approved or pending)</b>	<b>Date</b>	<b>Amount</b>
110	Autoload Segregation by Muni	Approved	6/30/2014	\$111,707
111	SAV Three Distinct Tones	Approved	8/4/2014	\$46,634
112	Modify TAP Vending Machine to Improve Purchases	Approved	8/4/2014	\$250,000
113	ADA TVM Upgrades for CN No. 162 and 150 Replacement TVMs	Approved	8/5/2014	\$416,815
114 A	UFS Equipment for Gold Line Foothill Extension	Approved	8/25/2014	\$1,878,756
114 B	UFS Equipment for Expo Phase	Approved	8/25/2014	\$3,783,200
115	FBX External Interface Spec Changes	Approved	8/19/2014	\$20,488
116	Willowbrook Station Blue Line SAVs	Approved	11/19/2014	\$62,882
117	TAP-In, TAP-In, Transfer Gate	Approved	11/19/2014	\$88,598
118	Virtual Gate Arrangement of SAVs at Gold Line Union Station Entrance	Approved	11/19/2014	\$84,964
119	Conversion of Expo 1 Aerial Stations to Fare Gates	Approved	3/2/2015	\$3,077,952
120	Change in Service Level Agreement for TVM & GC Network Additions at No Cost	Approved	3/2/2015	\$0
121	Emergency Swing Gate External Alarm Mode	Approved	11/19/2014	\$0
122	Installation of Colorado & 4 <sup>th</sup> Faregates & ESGs	Approved	3/2/2015	\$163,143
123	OCDC Replacement Equipment Software and Installation	Approved	5/12/2015	\$681,068
124	Expo One Claim No. 1 Settlement	Approved	5/26/2015	\$19,648
125	UFS Global Network, Change for Credit/Debit Processing at TVM	Approved	5/12/2015	\$52,735
126	Metrolink Integration Support	Approved	5/12/2015	\$56,073

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<b>Mod. No.</b>	<b>Description</b>	<b>Status (approved or pending)</b>	<b>Date</b>	<b>Amount</b>
127	Metro Network Assistance	Approved	5/12/2015	\$48,758
128	Division 13 Bus Operations TVMs	Approved	5/12/2015	\$99,401
129	Fare Equipment Changes at MRL North Hollywood Station	Approved	5/12/2015	\$577,401
130	Installation of Additional TVM at MRL Civic Center Station North Entrance	Approved	7/15/2015	\$21,593
131	Relocate One TVM From Hawthorne to Hollywood	Approved	9/2/2015	\$31,983
132	Service Provider Support – Deductive Change (Mod 109)	Approved	6/13/2015	-\$66,777
133	Additional Emergency Swing Gate for Expo 2	Approved	6/3/2015	\$10,970
134	Metrolink Support for LU Encoding	Approved	10/7/2015	\$13,666
135	Emergency Swing Gate Hinge Post Substitution at Expo 2 Bundy Station – No Cost Change	Approved	10/21/2015	\$0
136	Relocation of TVMs at MGL Artesia Station	Pending		\$0
137	(Not Used)			
138	Vertiba Support (Salesforce – CRM)	Approved	8/20/2015	\$9,671
139	Regional Inter Agency Transfer Policy Change	Approved	1/21/2015	\$435,000
139.01	Regional Inter Agency Transfer (IAT) Policy Change	Approved	7/15/16	\$480,000
140	54 TVMs, purchase and install	Approved	4/14/16	\$5,194,834
141	(Not Used)			
142	Network, back office station configuration and IAT support	Approved	4/25/17	\$14,578
143	Reduction in monthly PM services	Approved	5/8/17	(\$404,550)
144	20 BMV Install Kits	Approved	5/8/17	\$10,310

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<b>Mod. No.</b>	<b>Description</b>	<b>Status (approved or pending)</b>	<b>Date</b>	<b>Amount</b>
145	Sales, Use, Activate, Initialize and read transactions into Nextfare	Approved	5/25/17	\$0
146	TVM Screen Flow Phase 2	Approved	6/30/17	\$475,000
147	Revisions to Mod 140/CN 185.03 TVM Deployment Scope of Work	Approved	8/28/17	\$0
148	405 BMVs and 480 Install Kits	Approved	11/20/17	\$990,059
149	UFS Equipment for Crenshaw/LAX	Approved	12/1/2017	\$5,920,997
150	CPA Change to Include Terminal ID	Approved	10/18/17	\$45,487
151	UFS Equipment for Regional Connector	Approved	12/1/2017	\$3,316,556
151.01	Revisions to CN/Mod for Regional Connector Claim	Approved	3/28/2022	\$42,148
151.02	Storage Period Adjustment for Regional Connector Project (No-Cost)	Approved	2/7/2023	\$0
151.03	Not Used	-	-	\$0
151.04	Additional Cost for out-of-scope work – Regional Connector Project	Approved	3/28/2023	\$19,523.79
152	TAP System Patching	Approved	4/4/18	\$165,337
153	Network Back Office Configuration	Approved	4/12/18	\$37,222
154	TAP System Wide Upgrades	Approved	6/28/18	\$22,104,750
155	TAP System Support Services	Approved	4/25/19	\$68,220,642
156	Latitude/Longitude to A102 Reports	Approved	6/29/18	\$14,994
157	Willowbrook/Rosa Parks Station Improvements	Approved	10/25/18	\$2,622,560
158	Net Backup DPOO License & Support	Approved	6/7/2019	\$55,281
159	Procure Additional BMVs	Approved	6/27/2019	\$434,680
160	Q-Radar License Renewal	Approved	5/14/2020	\$53,647
161	Additional ITS Network Equipment/Regional Connector Project	Approved	7/23/2021	\$57,860

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<b>Mod. No.</b>	<b>Description</b>	<b>Status (approved or pending)</b>	<b>Date</b>	<b>Amount</b>
162	Additional ITS Network Equipment/CLAX Station	Approved	7/23/2021	\$124,591
163/163.01	UFS Equipment for Purple Line Extension, Phase 1 Project	Approved	10/1/2021	\$4,038,756
164	Fare Capping Project	Approved	10/22/2021	\$5,662,667
165	Replacement of BMVs for All Door Boarding	Approved	2/24/2022	\$9,545,440
166	LIFE Fare Capping for Regular Cards	Approved	4/6/2022	\$149,888
167	SLA Abatement Relief – No Cost Mod	Approved	5/10/2022	\$0
168	Non-RMP Changes & Promo Card Enhancements	Approved	6/23/2022	\$387,000
169	QRadar License Renewal	Approved	6/30/2022	\$90,055
170	UFS Equipment for AMC/96 <sup>th</sup> St Station	Approved	9/20/2022	\$3,660,472
171	Fare Capping Phased Approach	Approved	2/14/2023	\$274,940
172	Rolling Weekly (7-Day) Pass	Approved	3/8/2023	\$1,255,979
173	TAP Core Server & TVM Upgrade Project	<b>Pending</b>	<b>Pending</b>	\$12,364,519
	<b>Modification Total:</b>			<b>\$317,612,420</b>
	<b>Original Contract:</b>		<b>2/28/2002</b>	<b>\$84,003,444</b>
	<b>Total:</b>			<b>\$401,615,864</b>



## DEOD SUMMARY

## UNIVERSAL FARE SYSTEM / OP02461010

**A. Small Business Participation**

Cubic Transportation Systems, Inc. made a 5.65% Disadvantaged Business Enterprise (DBE) commitment. The project is 87% complete and the current level of participation is 6.59% DBE, exceeding the commitment by 0.94%.

<b>Small Business Commitment</b>	<b>5.65% DBE</b>	<b>Small Business Participation</b>	<b>6.59% DBE</b>
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	<b>DBE Subcontractors</b>	<b>Ethnicity</b>	<b>% Committed</b>	<b>Current Participation<sup>1</sup></b>
1.	American Alloy Fabrication	Caucasian Female	0.25%	0.25%
2.	Lows Enterprise, Inc.	Black American	0.13%	0.03%
3.	TechProse	Caucasian Female	0.41%	0.05%
4.	Robnett Electrical	Black American	2.53%	5.93%
5.	Priority Manufacturing	Caucasian Female	0.93%	0.03%
6.	J-Tec Metal Products	Hispanic American	0.13%	0.03%
7.	KLI, Inc.	Asian-Pacific American	0.25%	0.07%
8.	Kormex Metal Craft	Asian-Pacific American	1.02%	0.20%
	<b>Total DBE Participation</b>		<b>5.65%</b>	<b>6.59%</b>

<sup>1</sup>Current Participation = Total Actual amount Paid-to-Date to DBE firms ÷ Total Actual Amount Paid-to-date to Prime.

**B. Living Wage and Service Contract Worker Retention Policy Applicability**

The Living Wage and Service Contract Worker Retention Policy is not applicable to this contract.

**C. Prevailing Wage Applicability**

Prevailing wage is not applicable to this contract.

**D. Project Labor Agreement/Construction Careers Policy**

Project Labor Agreement/Construction Careers Policy is not applicable to this Contract. Project Labor Agreement/Construction Careers Policy is applicable only to construction contracts that have a construction contract value in excess of \$2.5 million.