

## Agenda Item #8 - Construction Amendments and Changes Log

8/31/2017

Trade Package	CCO/CR No.	Total Value	Date submitted to CRC	Date No Exceptions Taken by CRC	Amount No Exceptions Taken by CRC	CCO Final Approved Amount	CCO Category	Contingency Source	Fund Source	CCO Issue
7.2	CCO 0324	\$455,000	2/6/2017	2/17/2017	\$455,000	\$428,811	Owner Requested	TJPA	TIFIA	Gantry Beams at Ground Level above Transformer Vaults per ASI 121
10.3	CCO 0304	\$118,000	2/6/2017	2/17/2017	\$118,000	\$117,841	Owner Requested	TJPA	City Financing	Roof Park scope, Heat Pump Changes, & Duct Reroute per ASI 128
13.1	CR T-185	\$420,000	2/6/2017	2/17/2017	\$420,000		Owner Requested	TJPA	City Financing	Landscape Changes per ASI 138
7.6	COR 311367	\$260,000	11/7/2016	11/18/2017	\$260,000		Owner Requested	TJPA	TIFIA	Changes to the GL 35 Seismic Joints due to the OCS footing interrupting the joints and replacing the SJ cover with 1" steel plate.
7.2	CCO 0312	\$750,000	11/7/2016	11/18/2017	\$750,000	\$708,975	Owner Requested	TJPA	TIFIA	Additional Wall Plates at Lower Concourse Walls
7.2	CCO 0269.1	\$325,000	8/22/2016	8/24/2016	\$325,000	\$254,308	Owner Requested	TJPA	Land Sales	Added plate to short curbs to support deformed bars per RFI T-3184 and added plates for tall curbs between Gridlines 10-20.
	COR 310608	\$0	8/22/2016	8/24/2016	\$400,000	\$0	Owner Requested	TJPA	TIFIA	NOW VOID. This item has been incorporated into another COR. Please refer to COR 311408
	COR 310937	\$800,000	8/31/2017				Owner Requested	TJPA	TIFIA	Formally COR 310608 is void. All blockout and W-system costs included in COR 311408. All curb issues included in this COR.
	CCO 0291	\$368,000	8/22/2016	8/24/2016	\$368,000	\$317,592	Owner Requested	TJPA	Land Sales	Install additional rebar, formwork and concrete for Partition walls at Lower Concourse per ASI 128.
	COR	\$1,000,000	8/22/2016	8/24/2016	\$1,000,000		Owner Requested	TJPA	TIFIA	Curb modifications due to W System interfaces to meet RVA and design build criteria.
7.6	CCO 0316	\$694,000	8/22/2016	8/24/2016	\$694,000	\$546,055	Owner Requested	TJPA/Reimbursable	Salesforce Tower	Added seismic joint at Salesforce Tower Pedestrian Bridge per ASI 137.
7.2	COR 311981	\$900,000	8/31/2017				Errors & Omissions	TJPA	TIFIA	ASI 141 Revisions
7.3	COR 311347	\$97,000	8/31/2017				Errors & Omissions	TJPA	City Financing	Roof Park Restaurant Cable Guardrail Continuity Plate per RFI T-5041 Series
10.2	COR 310734	\$660,000	8/31/2017				Errors & Omissions	TJPA	TIFIA	ASI 138 Revisions
7.2	COR 311408	\$3,300,000	5/8/2017	5/19/2017	\$3,300,000		Errors & Omissions	TJPA	TIFIA	W-Systems Impact to Structural Concrete Package. The COR was submitted at \$6.3M, but \$3M of that amount was due to inefficiencies and delays which have no merit.
8.11R	COR 311449	\$912,000	5/8/2017	5/19/2017	\$912,000		Errors & Omissions	TJPA	TIFIA	W-13 Frame Modifications
	CCO 1063	\$270,000	5/8/2017	5/19/2017	\$270,000		Errors & Omissions	TJPA	TIFIA	W-12 Perimeter Expansion Joint Infill Plate
10.2	COR 311439	\$500,000	5/8/2017	5/19/2017	\$500,000		Errors & Omissions	TJPA	TIFIA	DBI Venting Requirements per RFI T-5141
13.2	COR 310989	\$300,000	5/8/2017	5/19/2017	\$300,000		Errors & Omissions	TJPA	TIFIA	Add FC 4 Layers and revision to INS-14 per ASI 138
10.2	CCO 0343	\$800,000	2/6/2017	3/22/2017	\$800,000	\$673,785	Errors & Omissions	TJPA	TIFIA	Connection to Sewer Mains per RFI T-5029.
7.2	COR	\$1,000,000	2/6/2017	2/17/2017	\$1,000,000		Errors & Omissions	TJPA	TIFIA	Built Up Slabs in Ground Level and Roof Level
	COR	**\$310,000	8/31/2017	2/17/2017	\$280,000		Errors & Omissions	TJPA	TIFIA	Escalator Issues - Added Mid-Span Support. ** Estimate Increased
10.4	COR 311105	\$2,300,000	11/7/2016	11/18/2017	\$2,300,000		Errors & Omissions	TJPA/CMGC	TIFIA	Hardened Conduit RFI T-3669
18.1	CCO 0290.1	\$736,000	8/22/2016	8/24/2016	\$736,000	\$691,702	Errors & Omissions	TJPA	Bridge Loan	Revisions to the Bus Ramp Cable Stay Hinge 8 Expansion Joint per ASI 150-015.
	*CCO 0373.1	\$475,000	8/22/2016	8/24/2016	\$475,000	\$367,498	Errors & Omissions	TJPA	TIFIA	Revisions to the Bus Ramp Cable Stay Hinge 9 Expansion Joint per ASI 150-016.
13.1	COR 311561	\$350,000	8/31/2017				Errors & Omissions	TJPA	City Financing	Shoe Design Changes at Bus Fountain
10.4	COR311110	\$325,000	8/31/2017				Errors & Omissions	TJPA	TIFIA	TG10.4 ASI 141 Electrical Changes
13.1	COR 311373	\$30,000	8/31/2017				Errors & Omissions	TJPA	City Financing	Revisions at Stair 401 per RFI T-5329.1
13.1	COR 311562	\$100,000	8/31/2017				Errors & Omissions	TJPA	City Financing	Change to Glass Type for Bus Glass Wall
7.3	COR 311344	\$100,000	3/22/2017	3/22/2017	\$100,000		Schedule Mitigation	TJPA	City Financing	Roof Park Rail Revision
7.2	*CCO 1059	\$1,200,000	2/6/2017	2/17/2017	\$1,200,000	\$887,683	Schedule Mitigation	CMGC	TIFIA	Schedule Recovery for TG 7.2 scope, premium time only, using CM/GC Contingency per contract.
	CR T-242	\$800,000	8/22/2016	8/24/2016	\$800,000		Schedule Mitigation	CMGC	TIFIA	Acceleration for Base Contract Work
7.2/7.6	CR T-449	\$375,000	8/31/2017				Coordination	CMGC	TIFIA	Curb Extension at Elevator Fronts for All Elevator Shafts
10.4	COR 311826	\$500,000	8/31/2017				Code Compliance	TJPA	TIFIA	Fire Management System Changes
7.1	CCO 1043	\$425,000	2/6/2017	2/17/2017	\$425,000	**\$425,742	Skanska Settlement	CMGC	TIFIA	Seismic Upgrades to Access Trestle. ** Final amount \$742 over NTE of \$425,000.
	COR 310296.1	\$672,750	8/22/2016	8/24/2016	\$672,750		BBII Settlement	TJPA	TIFIA	Removal of Sand Inclusions in Bus Deck level cast node pads embedded beyond the typical depth of normal steel fabrication and deemed additional work.
14.1B	CR T-462	\$280,000	8/31/2017				Scope Procurement	TJPA	TIFIA	Addition of LED skirt lighting, increased foot candela and other emergency backup elements.
	COR 311821	\$42,000	8/31/2017				Scope Procurement	TJPA	City Financing	Roof Park Restaurant Handrail IPE Wood Cap
10.4	COR 311034	\$300,000	8/31/2017				Scope Procurement	TJPA/Reimbursable	SFPUC	SFPUC Switchgear and Cabling Additional Work
13.1	COR 311740	\$300,000	8/31/2017				Scope Procurement	TJPA	City Financing	Contract Grow Monthly Maintenance and Storage

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7.3	COR 311306	\$60,000	5/8/2017	5/19/2017	\$60,000		Scope Procurement	TJPA	City Financing	Bent Plate Embed and SS Base Plate from ASI 128 for Roof Park Restaurant
10.4	COR 311394	**\$600,000	8/31/2017	5/19/2017	\$350,000		Scope Procurement	TJPA	TIFIA	E2 Pylon Beacon Power per RFI T-4988. **Estimate increased
10.4	*CCO 0379	\$390,000	3/22/2017	3/22/2017	\$390,000	\$275,056	Scope Procurement	TJPA	TIFIA	Added Stairwell Lighting per RFI T-5585.1
13.1	CCO 0374	\$100,000	5/8/2017	5/19/2017	\$100,000		Scope Procurement	TJPA/Reimbursable	City Financing/Salesforce Tower	Landscape Changes per ASI 137 at roof top park restaurant and Stair 601.
4.2	CR T-383.A	\$2,800,000	2/6/2017	2/17/2017	\$2,800,000		Scope Procurement	TJPA	TIFIA	Traction Power on Fremont and Beale Streets
7.2	COR	\$250,000	2/6/2017	2/17/2017	\$250,000		Scope Procurement	TJPA	TIFIA	Drum Café Revisions
8.6R	CCO 0344	\$480,000	5/8/2017	5/19/2017	\$480,000		Scope Procurement	TJPA	TIFIA	ASI 140 Drop-in Span Aluminum Enclosure, VE Item.
	CCO 0309	\$250,000	2/6/2017	2/17/2017	\$250,000	\$249,554	Scope Procurement	TJPA	City Financing	Procurement of the W2 and W3 head of wall assembly
10.4	CCO 0284	\$1,330,000	11/7/2016	11/18/2017	\$1,330,000	\$1,202,996	Scope Procurement	TJPA	TIFIA	Phase 1.5 ASI 144
7.2	CCO 0328	\$445,000	11/7/2016	11/18/2017	\$445,000	\$434,946	Scope Procurement	CMGC	TIFIA	West Throat Vent Shaft Concrete
7.6	CCO 1035	\$330,000	8/22/2016	8/24/2016	\$330,000	\$307,144	Scope Procurement	CMGC	Land Sales	Installation of Mat Slab walls at water storage tank previously not procured.
8.11R	CCO 0378	**\$480,000	8/31/2017	8/24/2016	\$450,000		Scope Procurement	TJPA	TIFIA	Procurement of Glazing Door Hardware Package previously not procured. **Estimate increased
10.2	CCO 0186	\$1,486,000	8/22/2016	8/24/2016	\$1,486,000	\$1,232,298	Scope Procurement	TJPA	Prop K	Revisions and additions to plumbing system per ASI 128.
10.4	CCO 0293.1	\$1,100,000	8/22/2016	8/24/2016	\$1,100,000	\$861,630	Scope Procurement	TJPA	TIFIA	Procurement of the pathway that supports the Emergency Response System per ASI 134.
13.2	CCO 0277	\$435,000	8/22/2016	8/24/2016	\$435,000	\$401,828	Scope Procurement	TJPA	Land Sales	Procurement and installation of the W2 Roof Trellis and Outriggers per ASI 128 and 138
16.8	CCO 0287	\$261,000	8/22/2016	8/24/2016	\$261,000	\$252,310	Scope Procurement	TJPA	Land Sales	Installation of the Rooftop Restaurant Fireproofing per ASI 128.
<b>Total</b>		<b>34,346,750</b>			<b>CCO Final Approved Total</b>		<b>\$10,212,011</b>			

\* Executed Recently

MODS and amounts paid directly by WOJV (not thru TJPA) are not included in this estimate  
 Executed CCO's will be included in WOJV's Cash Flow and are not included in this estimate

New Construction Changes	
In Process (Presented to CRC)	
Approved	

### Contingency Tracking through July 2017 (\$millions)

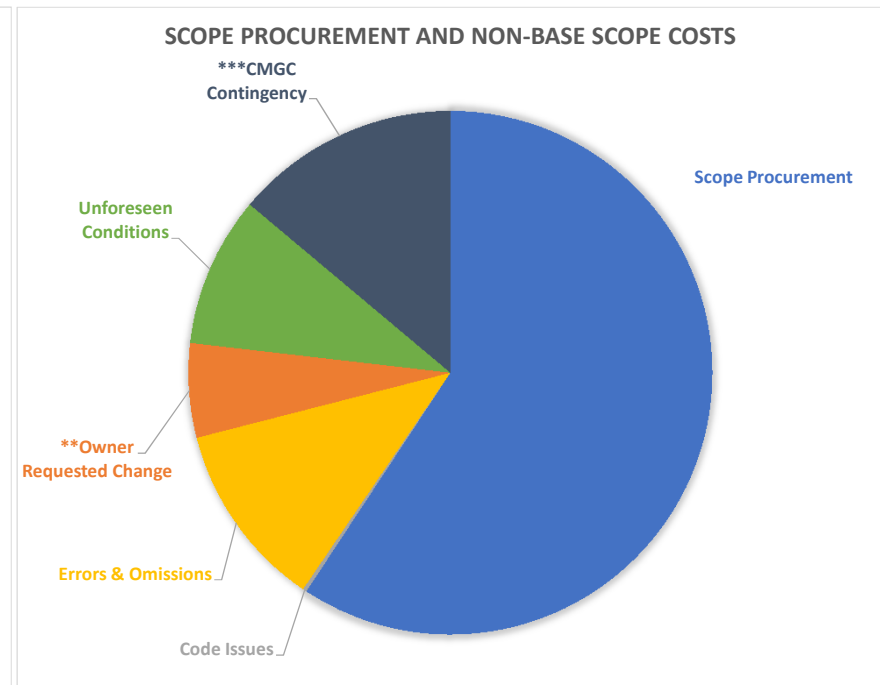
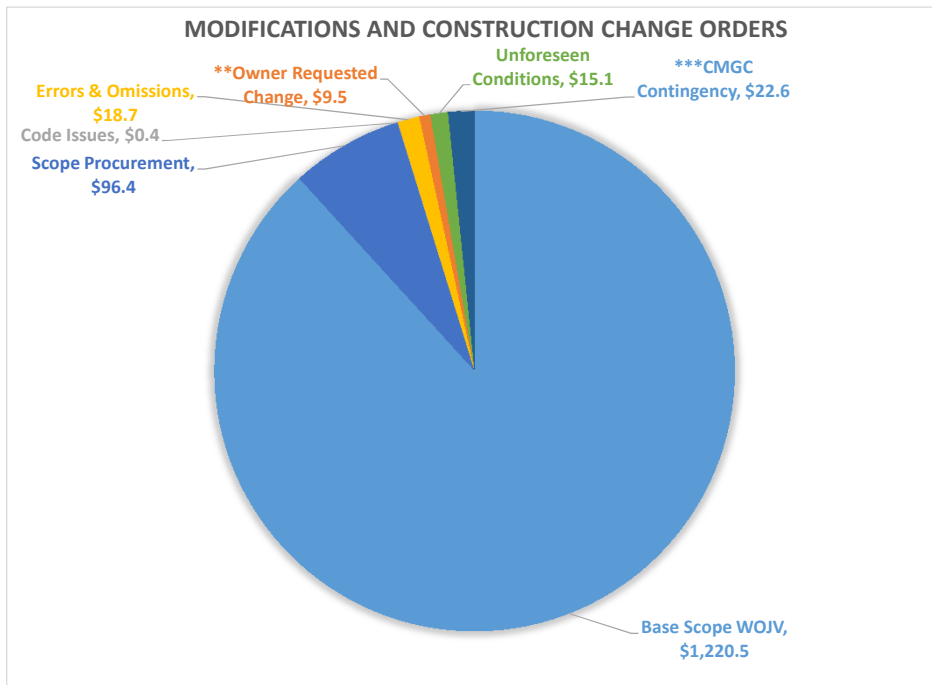
	Construction Contingency	CM/GC Contingency	Program Reserve	Total Contingency & Reserve
Baseline Budge Amounts	\$61.8	\$32.5	\$116.9	\$211.3
Contingency Usage Through June 2017	(\$21.9)	(\$3.3)	\$4.6	(\$20.6)
Remaining Baseline Budge Amounts (June 2017)	\$39.9	\$29.3	\$121.6	\$190.7
Total Draws/Adds July 2017	(\$1.2)	(\$0.2)	\$0.0	(\$1.4)
Remaining Balances	\$38.7	\$29.1	\$121.6	\$189.4

Trade Packages:	
4.2	Utility Relocation - Mission St. AWSS
7.1	Structural Steel
7.2	Structural Concrete
7.3	Miscellaneous Metal
7.6	Topping Slabs, Bus Crash Rail and Expansion Joints
8.6R	Metal Ceilings
8.11R	Glass Curtain Wall/Skylights
10.2	Plumbing
10.3	Mechanical/HVAC
10.4	Electrical
13.1	Landscaping and Irrigation
13.2	Roofing/Waterproofing
14.1B	Escalators
16.8	Fireproofing/Intumescent Spray
18.1	Bus Ramp

**Baseline Budge Amounts**  
**Contingency Usage Through June 2017**  
**Remaining Baseline Budge Amounts (June 2017)**  
**Total Draws/Adds July 2017**  
**Remaining Balances**

### Modifications and Construction Change Orders as of August 2017 (In Millions)

A	B	C	D	E	F	G	H	I
<b>*Contract Sum to date (in Millions) (B+C+I)</b>	<b>Base Scope WOJV</b>	<b>Scope Procurement</b>	<b>Code Issues</b>	<b>Errors &amp; Omissions</b>	<b>**Owner Requested Change</b>	<b>Unforeseen Conditions</b>	<b>***CMGC Contingency</b>	<b>Total of Non-Base Scope Costs (D+E+F+G+H)</b>
\$1,383.2	\$1,220.5	\$96.4	\$0.4	\$18.7	\$9.5	\$15.1	\$22.6	\$66.3
	88.24%	6.97%	0.03%	1.35%	0.68%	1.09%	1.63%	4.79%



\* Contract Sum includes Preconstruction, Geotechnical Engineering, and Fees but does not include General Contractor Reimbursable Expenses  
 \*\* Includes Third Party Reimbursable CCOs and Owner Directed Schedule Mitigation  
 \*\*\* Includes Coordination Issues, Settlement Items, and Schedule Mitigation

Executed CCOs as of 8/11/17