



Foothill Gold Line

Metro Gold Line Foothill Extension Construction Authority

406 East Huntington Drive, Suite 202
Monrovia, CA 91016-3633

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www.foothillgoldline.org

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Member, Non-Voting
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Executive Officer:

Habib F. Balian
Chief Executive Officer

Agenda Item: 7.b.

TO: Chair and Members of the Board of Directors
FROM: Habib F. Balian, Chief Executive Officer
DATE: January 11, 2023
SUBJECT: Receive and file Monthly Project Status Update as of December 2023

RECOMMENDATION:

That the Board of Directors receive and file Monthly Project Status Update as of December 2023.

Foothill Gold Line Project

Monthly Project Status Report

December 2023



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FOOTHILL GOLD LINE PROJECT DESCRIPTION

The Foothill Gold Line Construction Authority (also known as the Metro Gold Line Foothill Extension Construction Authority) is an independent transportation agency created in 1998 by the California State Legislature to plan, design and build the Metro Gold Line light rail system from Union Station in Downtown Los Angeles to the Montclair TransCenter in San Bernardino County. The \$3 billion, 37-mile program is being built in three segments and when completed will connect the cities of Los Angeles, South Pasadena, Pasadena, Arcadia, Monrovia, Duarte, Irwindale, Azusa, Glendora, San Dimas, La Verne, Pomona, Claremont and Montclair to the expanding network of rail lines throughout Los Angeles and San Bernardino Counties.

The first segment of the line from Union Station to Pasadena was completed in 2003, and the second segment from Pasadena to Azusa was completed in 2015. The third segment, from Glendora to Montclair (Figure 1) broke ground in December 2017 and is being mostly funded by Los Angeles County Measure M with additional funds coming from: residual Measure R funds not used for the Pasadena to Azusa segment, State of California Transit and Intercity Rail Capital Program funds (including SB1 funds), and funding from San Bernardino County. Four contracts are being used to build the 12.3-mile, six station segment which is anticipated to reach substantial completion by 2025 to Pomona. The anticipated schedule for the Pomona to Montclair segment will be determined once the necessary additional funding is secured.



GLENDORA TO MONTCLAIR
MANAGEMENT ISSUES

ADDITIONAL FUNDING FOR POMONA TO MONTCLAIR

Due to unfavorable economic conditions affecting bid prices, the alignment contract was restructured to terminate in Pomona with a two-year option to extend to Montclair. The option expired in October 2021. Additional funding of approximately \$798 million is now needed to extend the project from Pomona to Montclair. Staff is working with Metro and other appropriate entities to secure the additional funds needed to complete the project to Montclair.

COVID-19 PANDEMIC

On March 19, 2020, the Governor issued Executive Order N-33-20, which mandates that all residents of the State shelter in place. That Order excepted individuals needed to maintain continuity of federal critical infrastructure sectors, as outlined at <https://www.cisa.gov/identifying-critical-infrastructure-during-covid-19>. Transportation, which includes the construction of light rail projects, is identified as an exempt critical infrastructure sector. As such, the project can continue to proceed during the ongoing pandemic. However, the pandemic has resulted in many project participants, including Construction Authority staff, to begin working from home, and has increased the risk of third parties not performing as agreed. Construction Authority staff has been proactively working with all third parties and project stakeholders to ensure the project continues during the pandemic. To date, all third parties and project stakeholders have performed as agreed and no significant disruption to the project has occurred. Staff will continue to do everything possible to keep the project on schedule. Any significant disruption to the project that may occur will be mitigated to the fullest extent possible.

GLENDORA TO MONTCLAIR
KEY ACTIVITIES COMPLETED THIS PERIOD

Continued construction of stations

Continued fabricating architectural elements of the stations

Continued installation of architectural elements at the stations

Continued construction of station parking lots

Continued construction of SCRRA maintenance-of-way building

Continued OCS installation

Continued communication system work

Continued LRT train control installation

Continued local field acceptance testing for train control and communications

Continued construction of walls and fencing throughout the project

Continued to hold coordination meetings to discuss the project

Design-builder continues design support during construction

Construction submittals continue to be submitted and reviewed

GLENDORA TO MONTCLAIR

KEY FUTURE ACTIVITIES

Begin systems integration testing

Complete stations

Achieve substantial completion by January 3, 2025

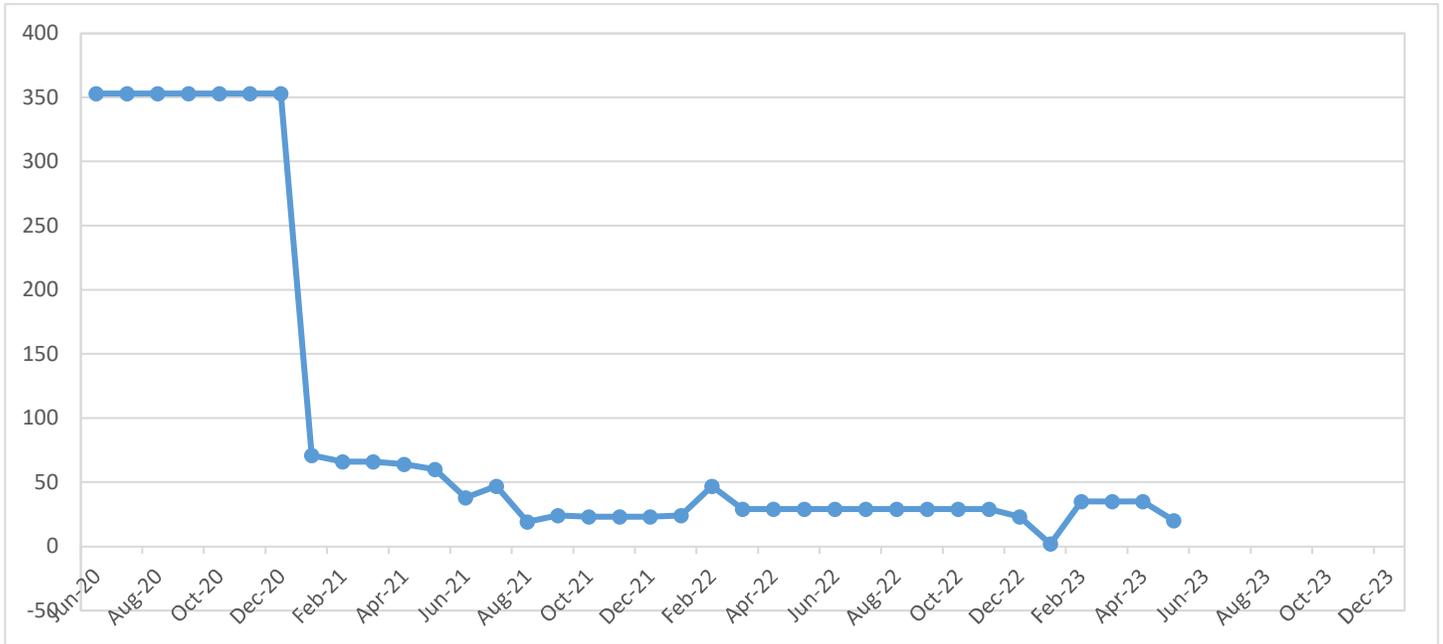
PROJECT SAFETY RECORD

November 2023

Project Hours: was 2,062,483

Recordable Injury Rate: was 0.194 vs. The National Average: was 2.4

FLOAT TREND



Critical Path

The longest path of the May 2023 Update Schedule is being driven out by the construction of the MSE walls 1721C and 1721S, the construction of civil work in Cataract Ave. to San Dimas Ave. midblock and subsequent track installation. This construction of civil work in Cataract Ave. to San Dimas Ave. midblock drives out the LRT track work that will continue to flow through OCS work into testing, that concludes at Substantial Completion.

Project Float

The project float is currently 20 calendar days ahead the January 4, 2025 substantial completion date, which was moved 15 days later from the previous month Update Schedule due to productivity issues with civil work in the Cataract Ave. to San Dimas Ave. midblock.

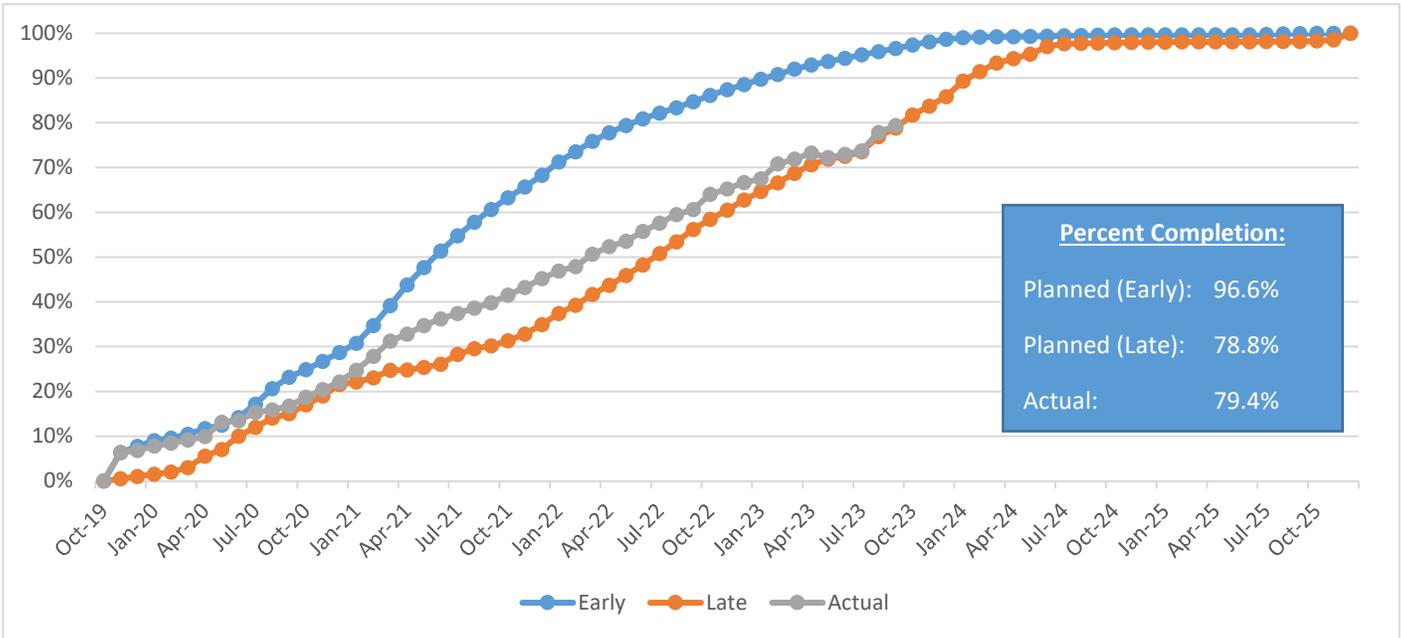
Cost Summary (9/30/23):

	Million(s)
CONTRACT	
Contract Award:	805.6
Executed Change Orders:	53.4
Potential Change Orders:	0.5
Current Forecast:	859.0
Earned Value/Actual Cost:	682.0

Cost Assessment:

The Design-Build Contractor has earned 682.0 million and currently 79.4% completion at the end of September 2023 including Parking Facilities Improvements. The progress was currently 17.2% behind the early planned curve, which was due to the delays of several design packages. However, it does not critically impact the construction related to.

Progress Curve:



Schedule Summary (5/31/2023):

Notice To Proceed (NTP):	10/07/19
Original Contract Duration:	1915
Current Contract Duration:	1915
Elapsed Time from NTP:	1332

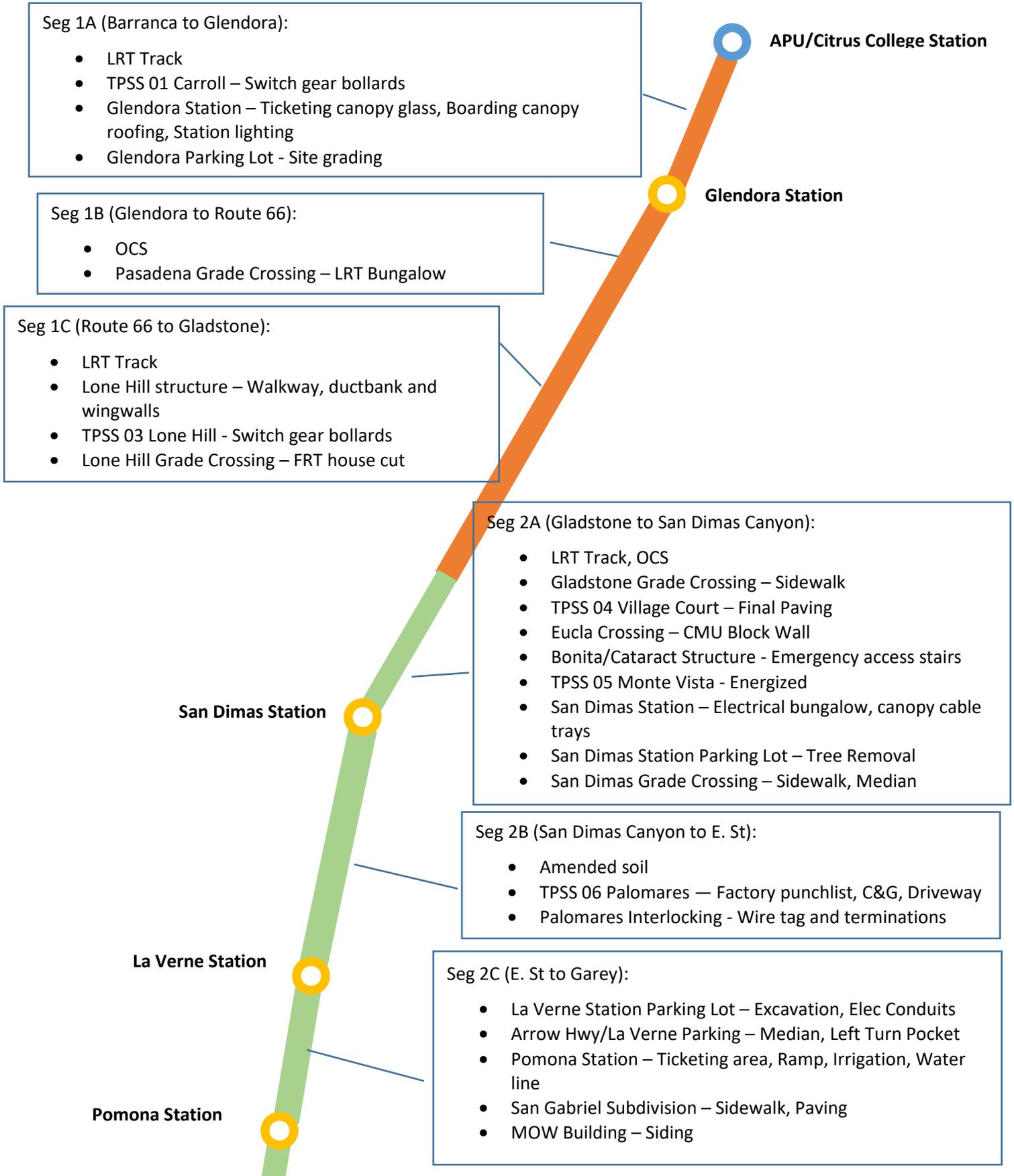
Contract Milestones:

MS	Description	Original Contract	Current Contract	Forecast	Variance
1	Substantial Completion	1/3/25	1/3/25	12/14/24	20
2	Punchlist Completion	9/30/25	9/30/25	9/10/25	20
3	Final Acceptance	12/29/25	12/29/25	12/9/25	20

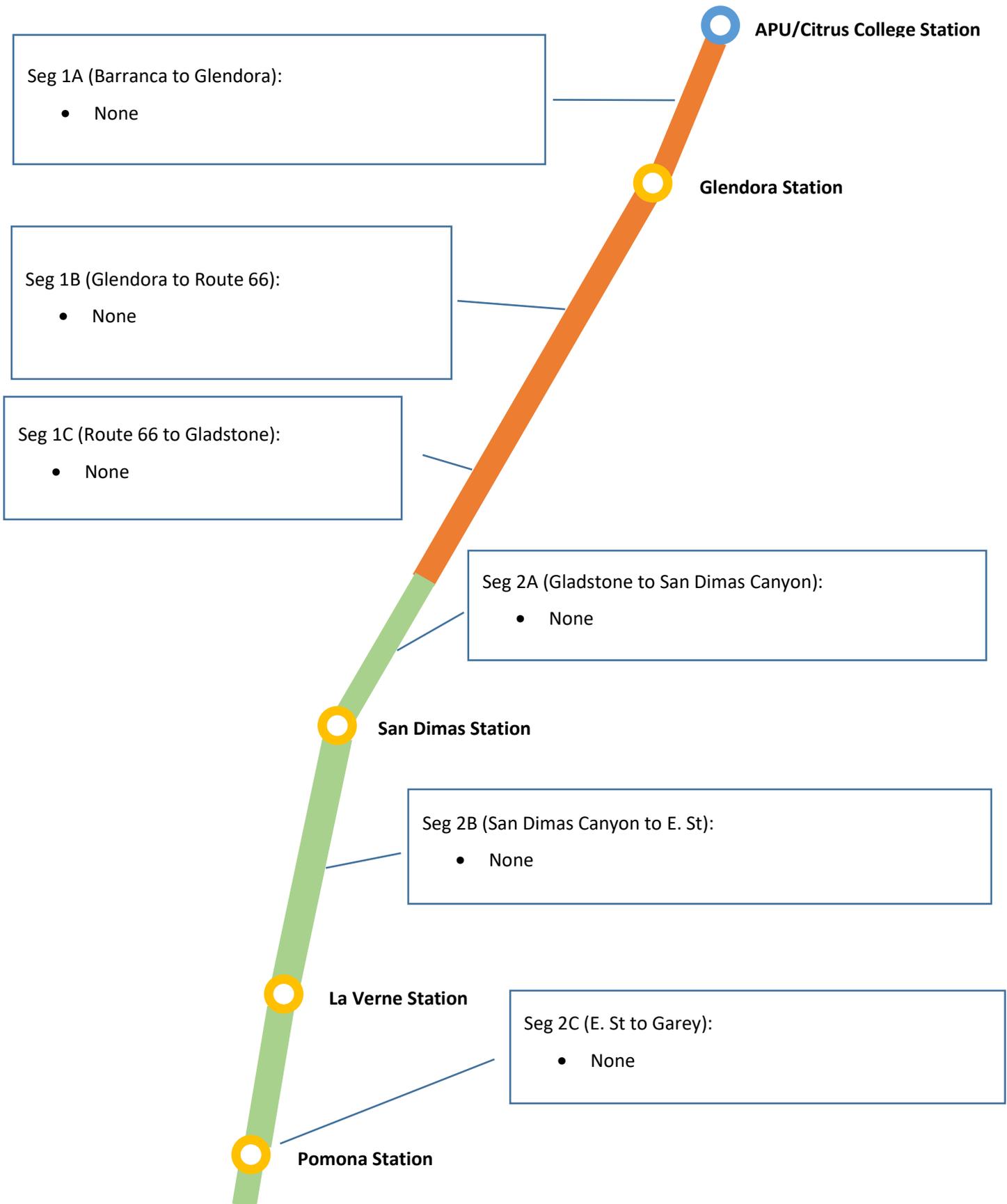
Schedule Assessment:

The project float is currently 20 calendar days ahead the January 4, 2025, substantial completion date. The longest path of May 2023 Update Schedule is being driven out by MSE walls 1721C and 1721S, the construction of civil work in Cataract Ave. to San Dimas Ave. midblock, and subsequent track installation. This construction of civil work in Cataract Ave. to San Dimas Ave. midblock drives out the LRT track work that will continue to flow through OCS work into testing, that concludes at Substantial Completion.

ALIGNMENT CONSTRUCTION PROGRESS THIS PERIOD (Oct 2023)

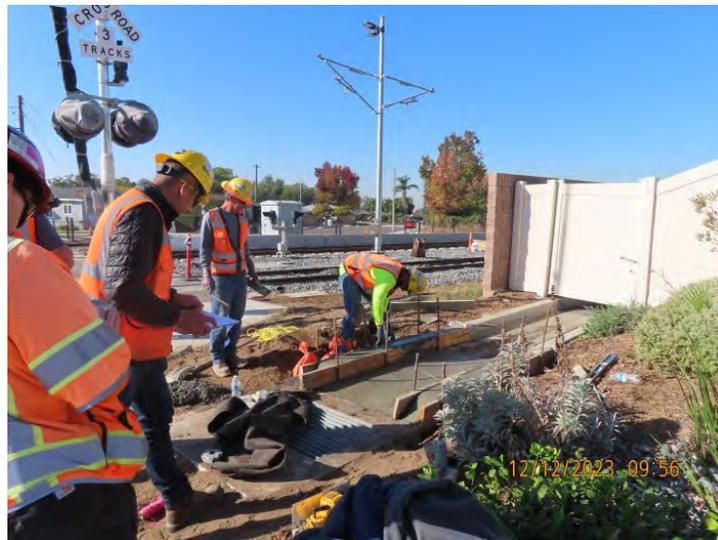


ALIGNMENT CONSTRUCTION PLANNED NEXT PERIOD (Nov 2023)





Barranca to Grand - LRT ductbank interducts



Vermont/Ada - Drainage inlet concrete pour



Glendora Station - Plaza site grading



Gladstone to Eucla - Picket fence posts



Eucla LRT Bungalow - CMU wall

Segment
1B



Eucla to Cataract - Overhead catenary system

Segment
1C



San Dimas Station



San Dimas Cyn - LFAT track circuit witness testing



San Dimas Cyn - LFAT track circuit witness testing



A Street - Traffic signal activation

Segment
2A



D Street - Traffic signal cutover



Glendora station systems work



Foothill to Vermont / Ada - LRT track surfacing



La Verne station - LFAT



La Verne station - Relocated water RTU pad

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Change Management Log

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Project: Foothill Gold Line - Alignment Project (C2002)

Original Contract Value:	\$805,634,000			
Approved Change Orders*:	\$2,751,239	0.34%	Pending Change Orders:	\$0 0.00%
Approved Parking COs:	\$62,875,571	7.80%	Pending Contract Total:	\$874,668,471 8.57%
Approved Betterment COs:	\$3,407,661	0.42%	* Indicates scope not related to Parking or Betterment Items	
Current Contract Value:	\$874,668,471			

Change Orders

Number	Title	Time Extension	Amount
EXECUTED Change Orders*			
CO-001	Authority Office Facilities Reduction	0	(\$62,215)
CO-002	Delete La Verne Station Pedestrian Undercrossing Design	0	(\$50,717)
CO-004	Delete Power/Electrical Provisions for EV Bikes	0	(\$9,738)
CO-005	Delete Signalization at La Verne Ave / Arrow Hwy Intersection	0	(\$390,447)
CO-006	Eucla Bungalow Changes	0	\$172,549
CO-007	TPSS 2, 3, and 7 Site Changes	0	\$25,490
CO-008	Lone Hill Bridge Aesthetic Enhancements- Design	0	\$83,320
CO-011	Gladstone St. Asbestos Pipe	0	\$6,860
CO-012	Sound Wall No. 8 Configuration Change	0	(\$306)
CO-013	COVID-19 Pandemic Mitigation (7/13/20 to 10/18/20)	0	\$39,758
CO-014	Delete Signalization at Foothill Blvd. / Elwood Ave. Intersection	0	(\$448,534)
CO-015	Incorporate Revised SCRRA MCA and Amendment into Contract Documents	0	\$521,159
CO-017	Repair/Restore FRT Track after BNSF Derail on 12/2/20	0	\$9,601
CO-018	SCRRA Rule Changes	0	\$27,499
CO-020	Parallel Communications Design for Alternate Station Parking	0	\$404,929
CO-022	FRT Rehabilitation - Pasadena Subdivision	0	\$70,115
CO-023	Removal and Disposal of Asbestos Containing Materials - 3 Locations	0	\$3,006
CO-025	Replace Permeable Pavers at Station Plazas with Standard Pavers	0	\$10,414
CO-026	COVID-19 Pandemic Mitigation - 10/19/2020 to 05/19/2021	0	\$152,255
CO-027	Pedestrian Undercrossing Aesthetic Enhancements - Design	0	\$34,115
CO-028	Support Removal of Hazardous Material (Batteries) at Eucla	0	\$1,592
CO-032	Removal and Disposal of Unknown Asbestos; West Ada	0	\$4,292
CO-033	Removal and Disposal of Unknown Asbestos; E St and Arrow Hwy	0	\$17,966
CO-034	Slurry Backfill at I-210 Freeway Abutment	0	\$9,813
CO-035	Removal and Disposal of Unknown Asbestos Pipe at D St. / Arrow Hwy.	0	\$14,506
CO-036	Lone Hill Ave. / Auto Center Dr. Buried Concrete	0	\$9,147
CO-037	Removal and Disposal of Unknown Asbestos Pipe; Vermont Grade Crossing	0	\$7,291
CO-038	Delete Bus Stop Along Arrow Highway at La Verne Station Plaza	0	(\$13,393)
CO-039	Removal and Disposal of Unknown Asbestos Pipe at Arrow Hwy, East of D St.	0	\$14,624
CO-040	Removal and Disposal of Unknown Asbestos Pipe Midblock E St to White Ave	0	\$9,070
CO-041	Additional CMB Testing	0	\$16,547
CO-043	COVID-19 Pandemic Mitigation (5/20/21 to 11/14/21)	0	\$207,847
CO-044	Delete Protection Slab at A Street	0	(\$48,646)
CO-045	Acacia Driveway Widening - Design	0	\$11,307
CO-046	VCEP-001 - Rehab Marshall Creek FRT Bridge in Lieu of Reconstruction	0	(\$356,781)
CO-047	Railway Street Speed Humps	0	\$21,391
CO-049	Contaminated Soils between San Dimas Canyon Road and Wheeler Avenue	0	\$12,754
CO-051	Install Traffic Signal Interconnect Conduit - Garey Avenue (PCO-039)	0	\$140,503
CO-052	Removal and Disposal of Unknown Asbestos; A St.	0	\$48,908
CO-053	San Dimas Wash Buried Concrete	0	\$7,398
CO-054	Workers Compensation Overcharge Credit; Change Order Portion	0	(\$5,505)
CO-055	Bonita/Cataract Traffic Control - Design and Construction Changes	0	\$244,014
CO-057	Remove Buried Well at Village TPSS Site	0	\$40,381
CO-058	Removal and Disposal of Asbestos Pipe at San Dimas Avenue	0	\$13,621
CO-059	Removal and Disposal of Asbestos Pipe at White Avenue	0	\$14,666
CO-060	Contaminated Soils Under I-210 Freeway	0	\$16,295

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Change Management Log

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Project: Foothill Gold Line - Alignment Project (C2002)

EXECUTED Change Orders*

CO-061	Add Pattern to Laminated Glass Screen Panels at TVM Areas	0	\$31,814
CO-062	Glendora Station Plaza Modifications	0	(\$9,468)
CO-063	Repaint RTE-66 FRT Bridge	0	\$188,416
CO-064	Add Tile to Wing Walls at Foothill/Grand and Lone Hill Bridge Abutments	0	\$154,723
CO-066	Removal and Disposal of Asbestos Pipe at E Street	0	\$5,918
CO-067	Contaminated Soils between Monte Vista Ave. and San Dimas Ave.	0	\$43,656
CO-068	Change GSW 2-inch Copper Line to 4-inch C900 PVC Line	0	\$8,313
CO-069	Unknown Sewer Line at A Street & Arrow Highway Tie-in	0	\$10,625
CO-071	Contaminated Soils at White Avenue	0	\$25,126
CO-072	TPSS B-2, Loraine; Sound Walls	0	\$126,520
CO-073	Contaminated Soils Vermont to Glendora	0	\$71,343
CO-074	Retaining Wall - Sound Wall (RWSW) 1596-N Configuration Change	0	\$23,940
CO-075	Add Sound Wall at NE corner of RTE-66 LRT Bridge	0	\$55,467
CO-076	Contaminated Soils between Eucla and Cataract	0	\$14,824
CO-077	Pomona North Parking - Car Counter Sign Change	0	\$3,887
CO-078	Contaminated Soils between Walnut Ave. and San Dimas Canyon Rd.	0	\$56,259
CO-079	Contaminated Soils between Loraine Ave and Route 66 Bridge	0	\$47,425
CO-081	Delete Improvements at Santa Fe Street and Garey Avenue	0	(\$1,301)
CO-082	Fence/Gate Revisions at Life Storage (2860 N. Garey)	0	\$25,318
CO-086	Modify Sound Walls East of San Dimas Avenue, South of San Dimas Station	0	\$39,889
CO-088	Add Sound Wall East of RTE-66 Bridge	0	\$707,099
CO-090	Pomona North Parking Bollards - Diameter Change	0	\$2,799
CO-091	Four-Inch Golden State Water Pipe Material Change	0	\$11,324
CO-092	Modifications	0	\$35,588
CO-095	PSA Funding Adjustment - Part 2	0	\$0
CO-097	Paint Block Wall North of San Dimas Station	0	\$13,014

EXECUTED Change Orders* Subtotal: \$2,751,239

EXECUTED Parking-Related Change Orders

CO-024	Glendora, La Verne, and Pomona Parking Facilities and Infrastructure Improvements	0	\$47,391,843
CO-065	San Dimas Parking Facility Design and Preconstruction Services	0	\$1,775,000
CO-070	Glendora Parking Lot Sump Pump Design	0	\$148,381
CO-080	Parking Facilities - Civil Design Changes	0	\$115,919
CO-084	Parking Facilities Single Line Diagram Revisions	0	\$18,743
CO-085	San Dimas Parking Facility Construction	0	\$13,367,658
CO-087	Provide Stainless Steel Barrier Rails at Parking Facility ADA Drop-off Areas	0	\$38,182
CO-094	San Dimas Parking Facility Light Fixture Type Change	0	\$19,845

EXECUTED Parking-Related Change Orders Subtotal: \$62,875,571

EXECUTED Betterment Change Orders

CO-003	Johnstone Peak - Equipment Installation	0	\$287,309
CO-009	Wheeler Ave. Sanitary Sewer (SS) Betterment	0	\$128,068
CO-010	A Street and E Street Sanitary Sewer (SS) Betterments	0	\$184,851
CO-016	Extend Paving Limits at Loraine/Lemon	0	\$9,071
CO-019	Johnstone Peak Radio - RF Testing	0	\$106,106
CO-021	Special Trackwork Changes - No. 10 Turnouts	0	\$40,157
CO-029	Foothill/Grand and Bonita/Cataract - post-tensioning duct location change - design	0	\$437,955
CO-030	White Avenue Storm Drain Betterment	0	\$350,547
CO-031	Pasadena Avenue Water Line Betterment	0	\$188,567
CO-042	Johnstone Peak Radio - RF Testing Credit	0	(\$1,696)
CO-048	Station Plaza CCTV Camera Change	0	\$77,303
CO-050	Install Traffic Signal Interconnect Conduit - Fulton Road	0	\$133,696
CO-056	Install Traffic Signal Interconnect Cable - Fulton Road (Pomona Betterment)	0	\$69,566
CO-089	Foothill/Grand and Bonita/Cataract - post-tensioning duct location change - construction	0	\$862,045
CO-093	Parking Facility CCTV Camera Change - Glendora, La Verne, Pomona	0	\$297,736

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Change Management Log

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Project: Foothill Gold Line - Alignment Project (C2002)

EXECUTED Betterment Change Orders

CO-096	Updated Station and Plaza Furnishings	0	\$236,380
EXECUTED Betterment Change Orders Subtotal:			\$3,407,661

PENDING Change Orders

PENDING Change Orders Subtotal:	
Change Orders Total:	\$69,034,471

Open PCOs

PCO Number	Title
PCO - 00022	Parking Facilities Communications Design, Procurement, and Installation Change
PCO - 00028	San Dimas Station East Entrance Changes
PCO - 00034	Aesthetic Enhancements to Lone Hill Bridge - Construction
PCO - 00035	Montclair Option Extension
PCO - 00046	Modify Train Control System to Allow Temporary Terminus at APU/Citrus
PCO - 00047	Pomona Station to Parking Facility Fencing - San Gabriel Subdivision
PCO - 00051	Adjust Fence and Gate Height RTE-66 Egress Stairs
PCO - 00059	La Verne Parking Facility - Additional Bollards
PCO - 00060	Sign Type "B6" Change
PCO - 00061	Station Skip Stop Implementation
PCO - 00062	Modify Phase 2B Train Control System to Accommodate Metro Upgrades at 9th/Pasadena
PCO - 00064	RTE-66 Bridge - West Abutment Changes
PCO - 00067	Prepare SIT-2 Test Procedures
PCO - 00068	Finalize Glendora, La Verne, and Pomona Parking Facilities Electrical
PCO - 00069	Modify Train Control System at 9th and Pasadena
PCO - 00071	Fence Changes - Cataract to Monte Vista
PCO - 00073	Revise Design of Monrovia Station East Pedestrian Crossing
PCO - 00074	Ada Avenue Street Improvements
PCO - 00075	Bike Shelter Changes
PCO - 00076	Pomona North Parking Lot CCTV Infrastructure
PCO - 00077	Grevilla Street Full Depth Roadway Replacement
PCO - 00078	Add Slope Paving and Angular Rock under San Dimas Wash Bridges
PCO - 00081	SCRRA MOW Betterments
PCO - 00083	Extend Pasadena Subdivision Maintenance to Substantial Completion
PCO - 00085	Perform Additional Operational Analysis

Open RFCs

RFC Number	Title
RFC - 00011	RFC-0011- VE Foothill Grand
RFC - 00028	RFC-0028 COVID 19 Pandemic Mitigation Continued
RFC - 00043	RFC-0043 Emergency Generators at Bungalows and Cases
RFC - 00050	RFC-0050 Rocla Shipping Cost Increase due to Pandemic
RFC - 00055	RFC-0055 Assembly Bill 5 Compliance Change
RFC - 00062	RFC-0062 Soundwall Design Re-Work
RFC - 00063	RFC-0063 Arrow Hwy. & A St. Intersection Traffic Signal Changes
RFC - 00066	RFC-0066 TPSS 03 Lone Hill - SCE 6 vs. 2 Conduits Proposal
RFC - 00067	RFC-0067 COVID-19 Mitigation Adjustment 2021
RFC - 00069	RFC-0069 Ada Avenue Landscape and Hardscape Improvements
RFC - 00072	RFC-0072 Route 66 Attenuator Betterment Changes
RFC - 00075	RFC-0075 Glendora Pedestrian Under Crossing Aesthetic Additions

Open RFC Notices

Number	Title
RFC - 00054	RFC-0054-WSI Derailment Damage Repairs
RFC - 00074	RFC-0074 La Verne Parking Lot Unknown Concrete
RFC - 00076	VECP-0003 RFI 47 CIP to MSE Wall Change
RFC - 00077	RFCN-0076 Glendora Parking Lot - Utility Demo

FOOTHILL GOLD LINE FINANCIAL STATUS
Project Operating Budget Summary in Millions of Dollars
December 31, 2023

	(a)	(b)	(c=a-b)	(d)
FINANCIAL PLAN	Current Budget	Funding Committed to Project	Uncommitted Funds	Revenues Received
Cities	42.2	42.2	-	42.2
Measure R - 2B	96.5	96.5	-	96.5
SBCTA	80.0	41.0	39.0	2.9
Measure M	1,019.0	1,019.0	-	798.3
Other - Cap and trade	249.2	249.2	-	-
Other - Metro	126.0	126.0	-	-
Other - Miscellaneous	758.0	-	758.0	-
Total Revenues	2,370.9	1,573.9	797.0	939.9
	(a)	(b)	(c)	(d=a-b)
	Current Budget	Current Obligation	Current Expenditures	Current Available Balance
EXPENSES				
Program Management and Admin - Pomona	196.0	88.0	85.8	108.0
Proram Management and Admin - Montclair	50.0	-	-	50.0
Master Cooperative Agreements	60.0	48.2	46.5	11.8
ROW DB2 Alignment Parking	130.0	100.0	77.9	30.0
Construction New Works Sub Projects	40.0	-	-	40.0
Construction DB2 Alignment - Pomona	807.7	805.6	673.2	2.1
Construction DB2 Alignment - Montclair	538.8	-	-	538.8
Construction DB3 Parking	120.0	60.9	18.7	59.1
MTA Project Costs	207.8	-	-	207.8
Project Contingency	132.6	7.9	-	124.7
Planning	88.0	40.0	40.0	48.0
Total Project	2,370.9	1,150.6	942.1	1,220.3