



# Metro Orange Line Extension

## QUARTERLY PROJECT STATUS REPORT



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## **PROJECT OVERVIEW**

*The Metro Orange Line (MOL) Extension Project is a four-mile extension of the Metro Orange Line extending from the Canoga park-and-ride lot to the Chatsworth Metrolink Station. The Project includes: busway, new station platforms at the Canoga park-and-ride lot, new stations at Sherman Way (with park-and-ride), Roscoe Boulevard, Nordhoff Street, and the Chatsworth Metrolink Station (with park-and-ride); grade-separation structure over active railroad tracks and Lassen Street (Lassen/RR Overcrossing) providing direct access into the Chatsworth Metrolink Station; Los Angeles River and Santa Susana Wash bridge crossings; and satellite bus parking facility. The project also includes street improvements, bicycle/pedestrian path, systems equipment and landscaping similar to the MOL.*

With the MTA Board adoption of the MOL Extension Project in January 2009, the Board directed staff to accelerate the completion of the Project to summer 2012.

### Major Accomplishments:

- Constructed the north parking lot at Chatsworth station,
- Completed final design and obtained approvals of the bridge over Metrolink tracks and Lassen Street,
- Relocated tracks and completed new rail signals (by Metrolink),
- Completed all real estate relocations and acquired easements from UP,
- Constructed the Privacy Fence at Chatsworth Mobile Home Park (CMHP),
- Completed lead and asbestos abatement of vacant structures.

The design builder, Brutoco Engineering & Construction, Inc, started on March 1, 2010 and is responsible for the construction of the Lassen/RR Overcrossing and Lassen Street improvements as well as for the design and construction of the remaining Project scope of work. The design builder has started:

- Construction of the underground utility work on Lassen Street,
- Clearing the right of way,
- Field investigation work,
- Final design of the busway street crossings, bikeway, stations and remaining bridges.

MTA continues to negotiate LADWP power and communication field changes for underground work on Lassen Street.

### Other Project specific items required for revenue operations includes:

- Universal Fare System - issued a Contract Modification in June 2010 to Cubic Transportation Systems, Inc to purchase and install fare collection equipment,
- Station Artwork – plan to select artists for station artwork in summer 2010, and
- Vehicles – plan to complete a midlife overhaul of existing Orange Line buses and add additional buses to the fleet in time for a summer of 2012 opening.

## **PROJECT OVERVIEW (Contd)**

To date, commitments are \$107.9 million or 50.1% of the Original Budget. Expenditures are \$17.8 million or 8.3% of the \$215.6 million Original Budget.

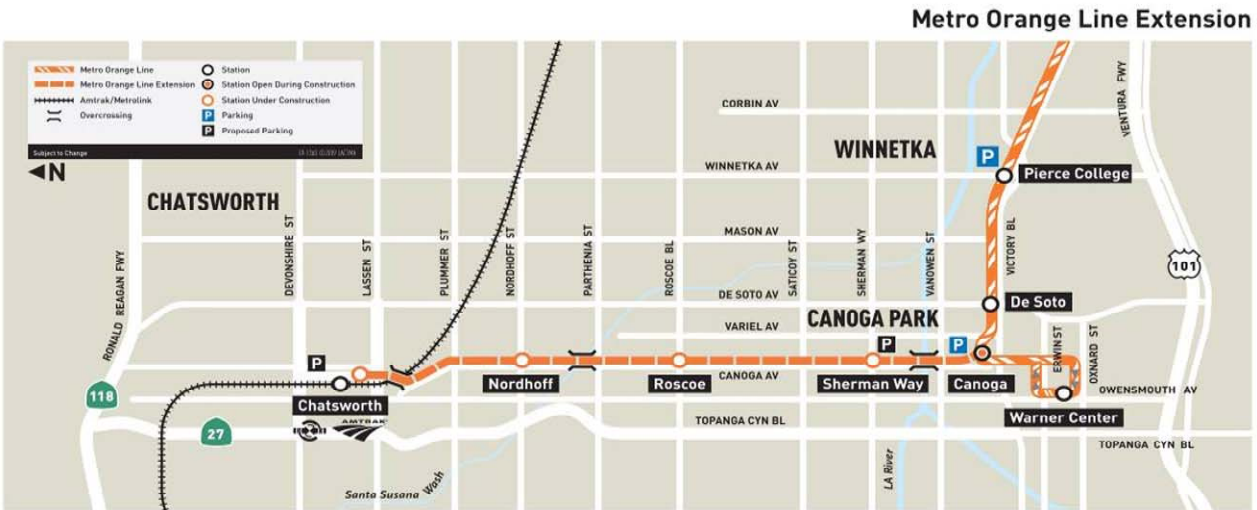
Design-builder's final design percent complete is 31% and construction physical percent complete is 2%.

## **MANAGEMENT ISSUES**

**Concern No. 1:** Metrolink to issue the permit for the relocation of LADWP power and communication lines at Lassen Street and the Lassen/RR Overcrossing and MTA to issue contract modifications for field changes on Lassen Street.

**Status/Action** MTA and the design builder are continuing to work with LADWP, Time Warner and City of Los Angeles for the approval of design changes and with Metrolink for issuance of permit.

**PROJECT SCOPE**



**C0943: Metro Orange Line Extension (MOL Ext)** is a design-build contract to construct the majority of the Project scope of work. This contract will include design and construction of busway, new stations at Sherman Way (with park-and-ride), Roscoe Boulevard, Nordhoff Street, and Chatsworth Metrolink Station (with park-and-ride). The existing MOL Canoga park-and-ride lot will be modified with new station platforms. In addition, the contractor will design and construct approaches to the Lassen/RR Overcrossing, a bridge over the Los Angeles River, a smaller bridge over the Santa Susana Wash, street improvements, bicycle/pedestrian path, satellite bus parking facility, landscaping, systems equipment, and system integration and testing. In August 2009, the Lassen/RR Overcrossing (500' long 3-span bridge over active railroad tracks/Lassen Street) and Lassen Street Improvements were added to Contract C0943.







**C0941: North Parking Lot (Chatsworth Station)** is a construction contract for a new parking lot to be constructed north of the existing Chatsworth Metrolink Station. Completion of this lot is required before the south parking lot is modified to ensure that parking is continuously available for Metrolink patrons during construction of the MOL Extension.

**Work Order – Advance Metrolink Rail Signal Modifications, Track Realignment, and At-Grade Lassen Crossing Enhancements** is to be substantially completed by Metrolink in advance of the Design-Build Contractor commencing construction of portions of the bridge.

**Work Order - Advance Relocation of power, fiber optic and communication lines on Lassen Street** is to be completed by LADWP and the affected utility companies prior to the Design-Build Contractor commencing construction of portions of the bridge.

**KEY MILESTONE SCHEDULE SIX-MONTH LOOK AHEAD**

	Milestone Date	Jun-10	Jul-10	Aug-10	Sep-10	Oct-10	Nov-10
(Forecast) C0943: Commence Clear and Grub	7/8/10*		■				
(Forecast) C0943: Commence Bridge Abutment 1 Construction	7/27/10*		■				
(Forecast) C0943: Commence Bridge Abutment 4 Construction	8/9/10*			■			
(Forecast) C0943: Option C - Complete DWP Underground Conduit System Construction	8/9/10*			■			
(Forecast) LADWP Commence Underground Relocation of Power Lines on Lassen Street	8/10/10*			△			

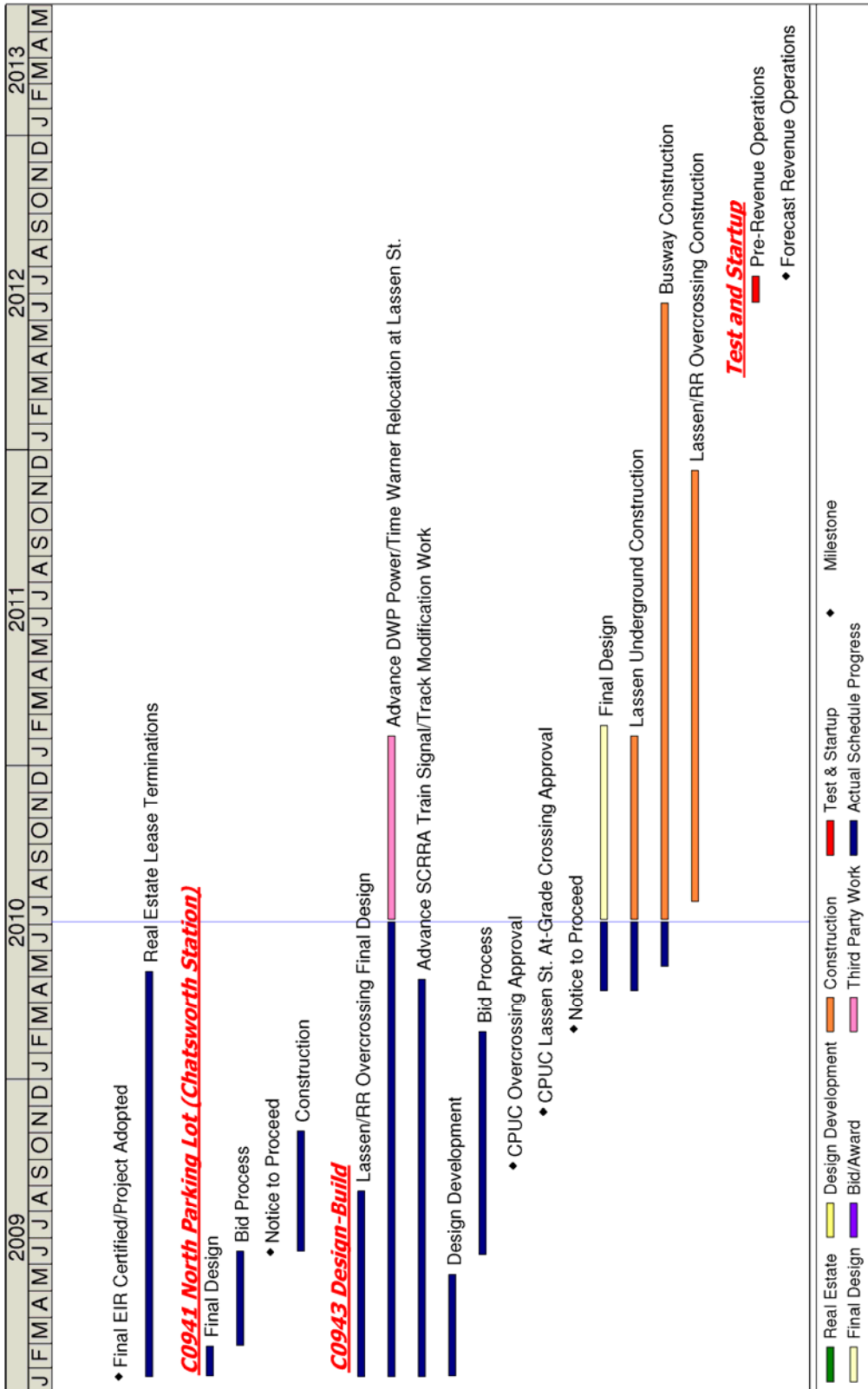
 MTA Staff	 MTA Design Consultant	 MTA Board Action
 Other Agencies	 Contractor	 New Date

**SCHEDULE NARRATIVE**

The design-builder’s baseline schedule has been approved. Based upon the contractor’s approved baseline and first schedule update the critical path begins with Option C Lassen underground utility relocation of Department of Water and Power overhead power and communication lines. The project critical path continues with Lassen Overcrossing bridge columns, followed by false work erection, construction of the bridge deck, and false work removal.

The critical path continues with Lassen intersection street work and traffic signals. The critical path concludes with system wide acceptance testing, pre-revenue operations, and the start of revenue operation.

## SUMMARY SCHEDULE



**PROJECT COST STATUS - 800119**

**COST REPORT BY ELEMENT**

UNITS IN MILLIONS

ELE- MENT	DESCRIPTION	ORIGINAL BUDGET	CURRENT BUDGET		COMMITMENTS		EXPENDITURES		CURRENT FORECAST		FORECAST VARIANCE
			PERIOD	TO DATE	PERIOD	TO DATE	PERIOD	TO DATE	PERIOD	TO DATE	
C	CONSTRUCTION	137.3	-	137.3	-	85.0	2.6	8.7	-	119.6	(17.7)
R	RIGHT-OF-WAY	8.0	-	8.0	-	3.7	0.2	1.6	-	5.0	(3.0)
V	VEHICLES / BUSES	9.9	-	9.9	-	-	-	-	-	9.9	-
P	PROFESSIONAL SERVICES	38.7	-	38.7	-	19.2	1.1	7.5	-	33.8	(4.9)
PC	PROJECT CONTINGENCY	21.7	-	21.7	-	-	-	-	-	18.7	(3.0)
PB	PROJECT RESERVE	-	-	-	-	-	-	-	-	28.6	28.6
PR	PROJECT REVENUE	-	-	-	-	-	-	-	-	-	-
<b>TOTAL</b>		<b>215.6</b>	<b>-</b>	<b>215.6</b>	<b>-</b>	<b>107.9</b>	<b>3.9</b>	<b>17.8</b>	<b>-</b>	<b>215.6</b>	<b>-</b>

NOTE: EXPENDITURES ARE CUMULATIVE THROUGH MAY 2010.

**PROJECT COST ANALYSIS**

**Original Budget and Current Budget:**

The Life of Project Budget for the Metro Orange Line Extension Project was adopted in January 2009 for a value of \$215.6 million.

**Current Forecast:**

The total project forecast remains the same at \$215.6 million.

**Commitments:**

The commitments remain the same this period. The \$107.9 million in commitments to date represents 50.1% of the Original Budget.

**Expenditures:**

The expenditures are cumulative through May 2010. The expenditures increased by \$3.9 million this period. In the construction element there was an increase of \$2.6 million for cost associated with the Design Build Contract C0943, Chatsworth Mobile Home Park Privacy Fence Contract C0954, and third party scope of work. In the Right-Of-Way element there was an increase of \$0.2 million primarily due to relocation costs for qualified tenants of real estate properties. In the Professional Services element there was an increase of \$1.1 million for costs associated with design engineering consultant, construction management support, specialty services, and MTA project administration. The \$17.8 million in expenditures to date represents 8.3% of the current budget.



**FINANCIAL/GRANT STATUS**

**Project 800119 – Metro Orange Line Extension**

**JUNE 2010**

**STATUS OF FUNDS BY SOURCE**

\$ in millions

SOURCE	(A)	(B)	(C)	(D)	(D/B)	(E)	(E/B)	(F)	(F/B)
	ORIGINAL	TOTAL	TOTAL	COMMITMENTS		EXPENDITURES		BILLED to FUNDING	SOURCE
	BUDGET	FUNDS	FUNDS	\$	%	\$	%	\$	%
	(1)	ANTICIPATED	AVAILABLE						
	(2)								
PROP 1B FUNDS-PTMISEA*	68.0	68.0	40.5	68.0	100%	17.8	26%	17.4	26%
PROP 1B FUNDS-SLTPP**	73.8	73.8		39.9	54%		0%		0%
PROP C 25%	73.8	73.8			0%		0%		0%
<b>TOTAL</b>	<b>215.6</b>	<b>215.6</b>	<b>40.5</b>	<b>107.9</b>	<b>50%</b>	<b>17.8</b>	<b>8%</b>	<b>17.4</b>	<b>8%</b>

(1) Based on January 2009 MTA Board adoption of Life of Project Budget.

(2) Based on March 2009 Capital Programming Revised Financial Plan.

\* PTMISEA: Public Transportation Modernization and Improvement Surface Enhancement Account

\*\* SLTPP: State - Local Transportation Partnership Program

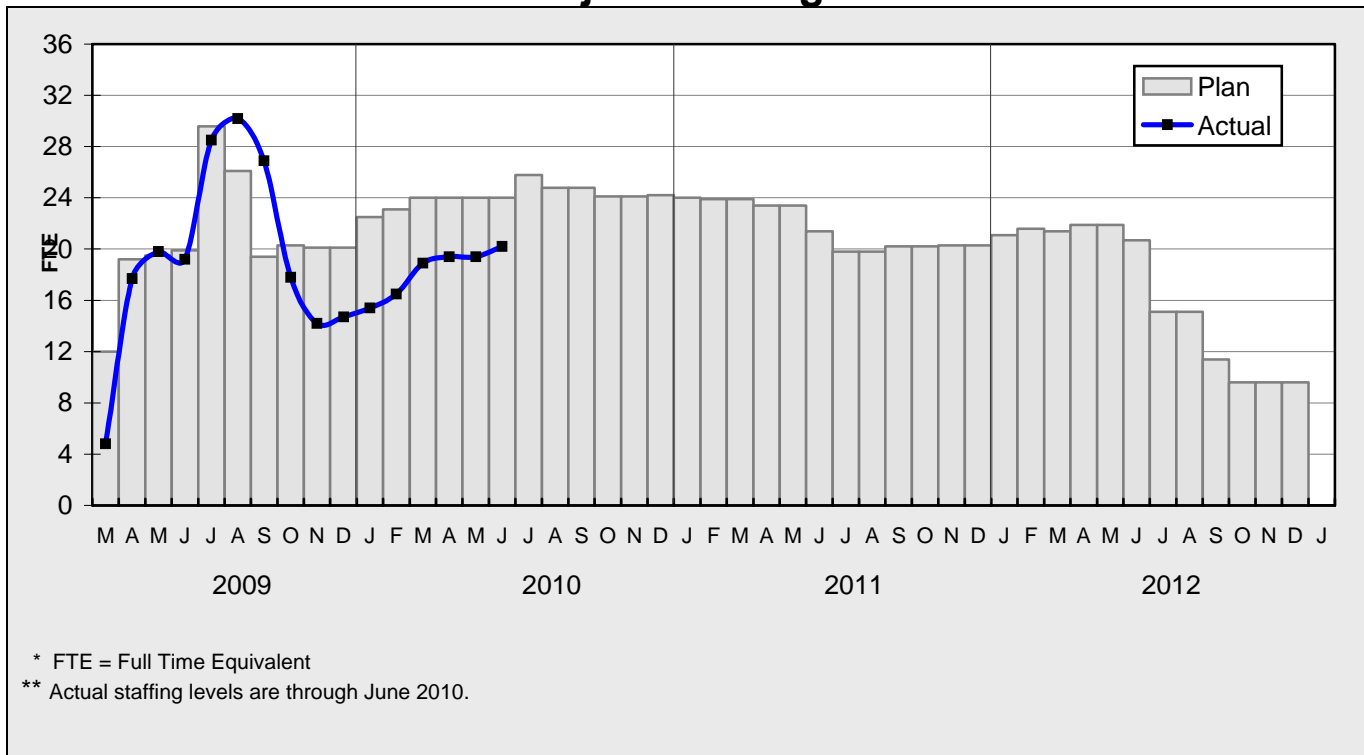
NOTE: Expenditures are cumulative through May 2010.

**STATUS OF FUNDS ANTICIPATED**

**STATE PROP 1B – PTMISEA:** MTA submitted a state application for \$8.9 million in September 2008. The State approved the \$8.9 million application in March 2009. Funds were received in July 2009 and are available for drawdown. MTA submitted a request to Caltrans to allocate \$31.6 million of FY09 funds to the project. The allocation was approved in November 2009 and funds have been received. MTA submitted a request to Caltrans to allocate \$29.5 million of FY10 funds to the Project. The allocation is expected to be approved by September 2010.

**STATE PROP 1B – SLTPP:** MTA requested an allocation of \$14.7 million in SLPP funds at the December 2009 CTC Meeting and the allocation was not approved. At the January 2010 CTC Meeting, the CTC approved a request to use \$14.7 million in Measure R Transit Capital 35% funds for a Proposition 1B Letter of No Prejudice arrangement in lieu of the FY 2010 SLTPP funds. Based on the passage of AB672, MTA will use the substitute funding and will seek reimbursement from the state in the future. MTA submitted to the CTC an allocation request for \$34.1 million in SLTPP funds in May 2010. The CTC will review the allocation request at their August 2010 Meeting.

**STAFFING STATUS  
Total Project Staffing - FTES**



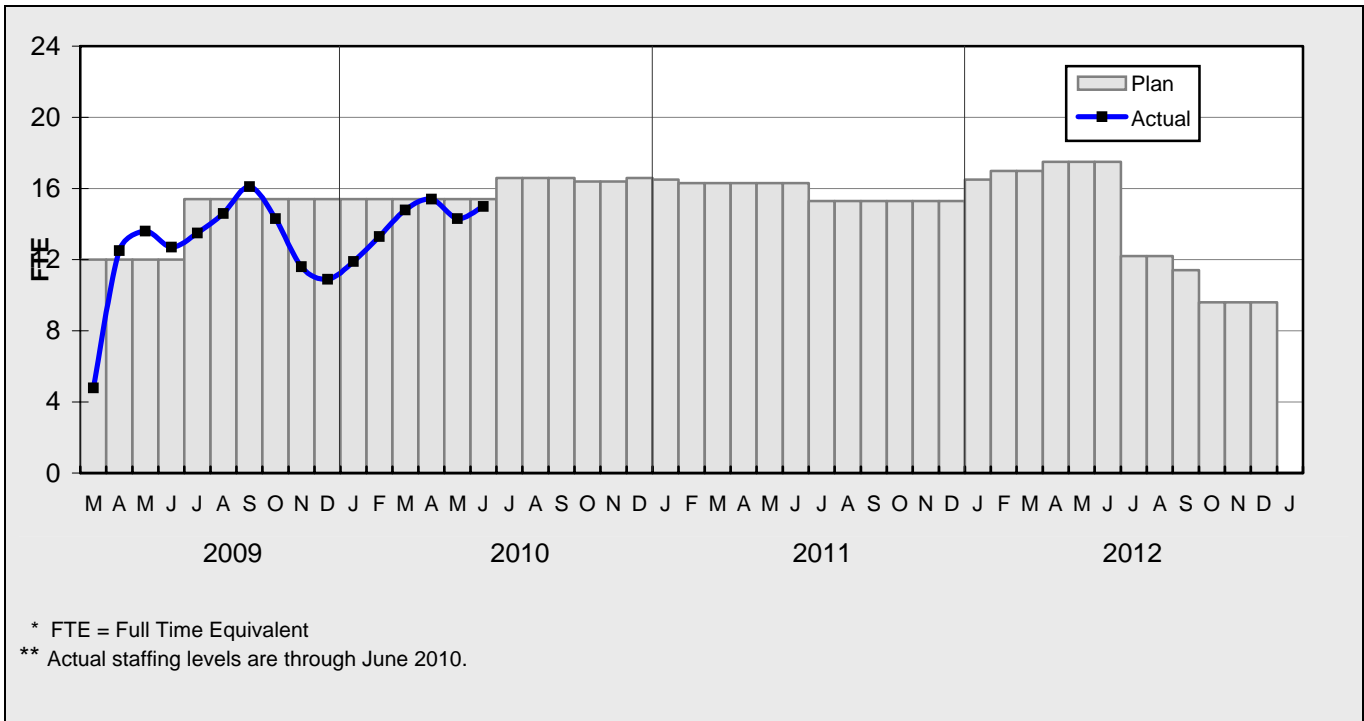
**Total Project Staffing**

The overall FY10 Total Project Staffing plan averages 23.1 FTE's per month.

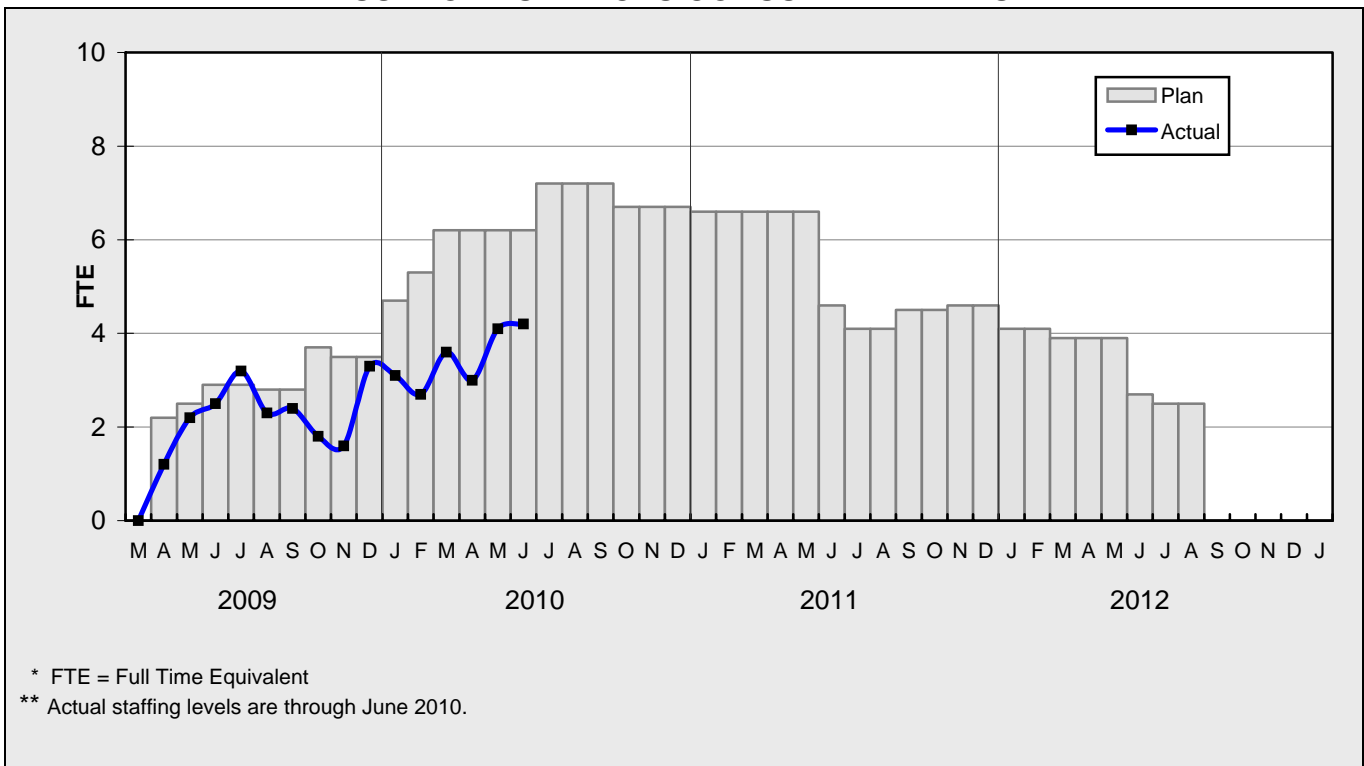
For June 2010, there were a total of 15.0 FTE's for MTA's Project Administration staff and 5.2 FTE's for consulting staff. The total project staffing was 20.2 FTE's for June 2010.

## STAFFING STATUS

### MTA STAFFING - FTES

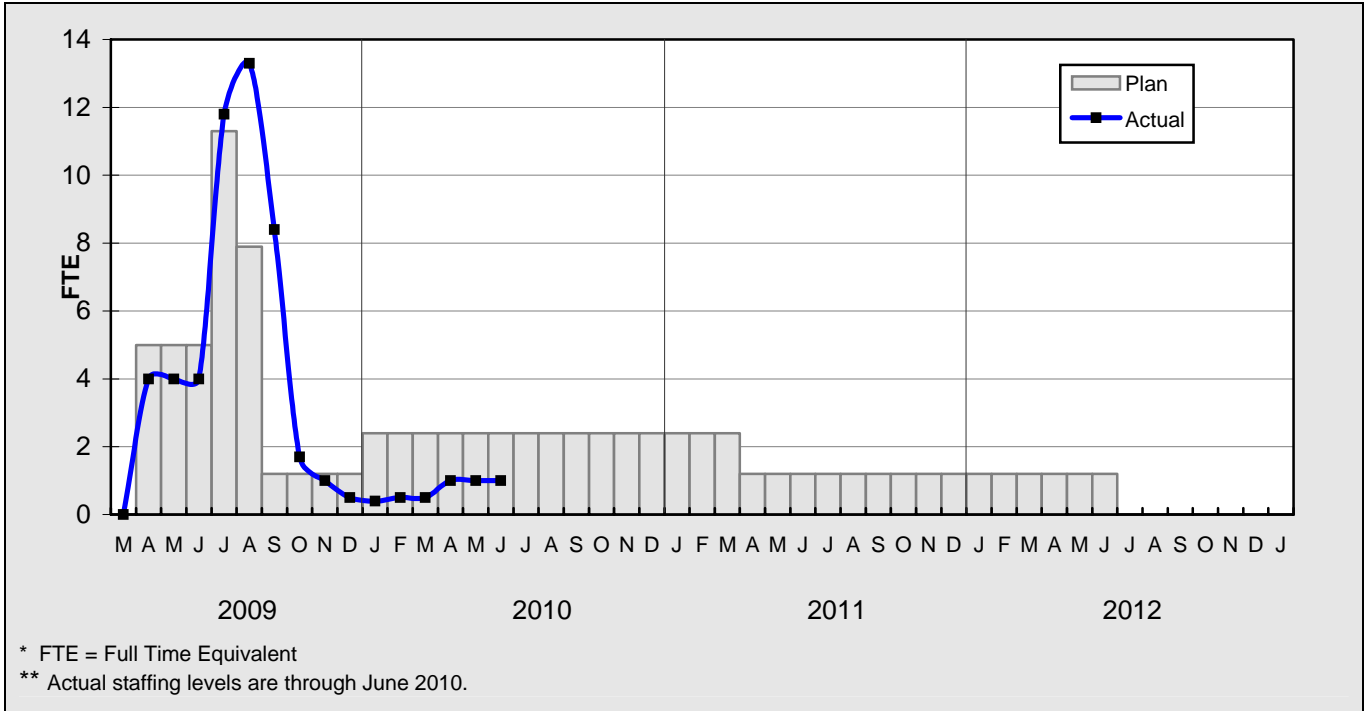


### CONSTRUCTION MANAGEMENT SUPPORT SERVICES CONSULTANT - FTES



## STAFFING STATUS

### ENGINEERING SERVICES CONSULTANT



### **REAL ESTATE STATUS**

- LADWP and Time Warner submitted applications to UP for licenses to install underground utilities across UP property.
- MTA Real Estate submitted License Agreements to LADWP and Time Warner to install underground utilities across MTA property.

### **REAL ESTATE STATUS – LEASES**

	Total Leases	Total Leases to be Terminated	Total Leases to Remain with Modified Lease	Leases to Remain Under Existing Lease	Relocations Completed	Total Signboards Removed
Leases	82	78	3	1	52	26

### **QUALITY ASSURANCE STATUS**

- Attended weekly job and readiness review meetings with Brutoco.
- Monitored underground conduits installation on Lassen Street.
- Monitored clearing, grubbing and installation of chain link fences along the alignment.

## **ENVIRONMENTAL STATUS**

- Completing the review of documents with the Department of Toxic Substances Control for soil mitigation and air monitoring purposes.
- Completing asbestos and lead paint removal at all structures to be demolished.
- Continued monitoring mitigation measures as described in the EIR.

## **COMMUNITY RELATIONS STATUS**

- Provided a project update regarding tree removal plan and traffic management plan to Council Members' Smith and Zine staff.
- Coordinated access for businesses located on Lassen and Remmet during underground construction activities.
- Delivered open during construction banners to businesses directly impacted by construction, and coordinated no trespassing signs at Chatsworth Mobile Home Park.
- Disseminated two Construction Notices:
  1. Canoga Avenue Right-of-Way vacant building demolition.
  2. Vault installation at Lassen and Remmet.

## **ART DEVELOPMENT STATUS**

- Met with the Art Advisory Group to share qualifications of artist finalists.
- Distributed Community Profile documents created by members of the Art Advisory Group.
- Conducted Mid-Point Review Meetings with 15 artist finalists.

**SAFETY STATUS**

**CO943:**

- Participated in meetings, reviewed and approved Contractor’s Job Hazard Analysis, Jack Pit and Boring Operation, and Safety Incentive Program submittals.
- Coordinated Metrolink Safety Training for Brutoco and their subcontractors.
- Brutoco and their subcontractors reported zero incidents and 5,844 work hours for the month of June 2010. Total project to date work hours are 16,718 and the incident rate is zero.

**THIRD PARTY AGREEMENT STATUS**

<b>Third Party</b>	<b>Type of Agreement</b>	<b>Forecast Execution Date</b>	<b>Required Need Date</b>	<b>Status/ Comments</b>
City of Los Angeles	Licensing Agreement	9/10	N/A	Licensing agreement has been agreed upon by LADOT. The agreement is currently under review by MTA County Counsel.
City of Los Angeles	O & M Agreement	9/10	N/A	The agreement has been drafted and submitted to MTA departments for commenting.
L.A. County Department of Public Works/L.A. County Flood Control District	Agreement	6/10	N/A	Master Cooperative Agreement executed 1991 between SCRTD and LA County Flood Control District. Work Order for design review and permits in process.

**Note: For a list of all Third Party Agreements, that have been executed, please see the May 2010 Monthly Project Status Report.**

**CONTRACT C0943 STATUS**

<p><b>Design/Build Contract</b> <b>Contractor: Brutoco, Engineering and Construction, Inc.</b></p>	<p><b>Contract No.: C0943</b> <b>Status as of: July 2, 2010</b></p>																																																					
<p><b>Progress/Work Completed:</b></p> <ul style="list-style-type: none"> <li>- Completed 70% of DWP and Time Warner underground duct work on Lassen Street.</li> <li>- Received various changes for underground work on Lassen Street.</li> <li>- Completed lead and asbestos abatement of vacant structures.</li> <li>- Received approval of baseline schedule.</li> <li>- Submitted 60% design for busway/bikeway at north end.</li> </ul> <p><b>Areas of Concern:</b></p> <ul style="list-style-type: none"> <li>- The schedule of underground utility work on Lassen Street (Option C) has been extended due to revised drawings and delays in Metrolink permit. MTA is working with Design Builder on mitigation opportunities. The forecast completion for Milestone "Option C" shown in the milestone table below is under evaluation.</li> </ul>	<p><b>Major Activities (In Progress):</b></p> <ul style="list-style-type: none"> <li>- 60% design submittals for City intersections, busway and bikeway.</li> <li>- Right-of-way clearing.</li> <li>- Demolition of vacant structures.</li> <li>- Obtain right-of-entry permit from Metrolink for starting boring/jacking utilities beneath the RR tracks on Lassen Street and bridge construction.</li> <li>- Continue DWP and Time Warner underground duct work on Lassen Street.</li> </ul> <p><b>Major Activities Next Period:</b></p> <ul style="list-style-type: none"> <li>- Start pile installation for Abutment No. 1 and 4 of Lassen Bridge.</li> <li>- Begin 85% design submittals for stations.</li> <li>- Complete remaining 60% design for busway and bikeway.</li> </ul>																																																					
		<table border="1"> <thead> <tr> <th></th> <th>Original Contract Dates</th> <th>Time Extension</th> <th>Current Contract</th> <th>Forecast</th> <th>Variance CDs</th> </tr> </thead> <tbody> <tr> <td>Milestone 1 - Contract Substantial Completion</td> <td>03/01/12</td> <td>0</td> <td>03/01/12</td> <td>03/01/12</td> <td></td> </tr> <tr> <td>Milestone 2 - Complete Universal Fare System Requirements</td> <td>11/02/11</td> <td>0</td> <td>11/02/11</td> <td>11/02/11</td> <td></td> </tr> <tr> <td>Milestone 3 - Elect/Communication Requirements Complete</td> <td>01/31/12</td> <td>0</td> <td>01/31/12</td> <td>01/31/12</td> <td></td> </tr> <tr> <td>Milestone 4 - Passenger Information System Testing Complete</td> <td>04/01/12</td> <td>0</td> <td>04/01/12</td> <td>04/01/12</td> <td></td> </tr> <tr> <td>Milestone 5 - Complete</td> <td>04/02/13</td> <td>0</td> <td>04/02/13</td> <td>04/02/13</td> <td></td> </tr> <tr> <td>Milestone 6 - Landscape and Planting Maintenance and Warranty</td> <td>03/02/14</td> <td>0</td> <td>03/02/14</td> <td>03/02/14</td> <td></td> </tr> <tr> <td>Option C - Complete DWP Powerline Overhead at Lassen Street</td> <td>05/31/10</td> <td>0</td> <td>05/31/10</td> <td>8/10/2010</td> <td>-71</td> </tr> </tbody> </table>		Original Contract Dates	Time Extension	Current Contract	Forecast	Variance CDs	Milestone 1 - Contract Substantial Completion	03/01/12	0	03/01/12	03/01/12		Milestone 2 - Complete Universal Fare System Requirements	11/02/11	0	11/02/11	11/02/11		Milestone 3 - Elect/Communication Requirements Complete	01/31/12	0	01/31/12	01/31/12		Milestone 4 - Passenger Information System Testing Complete	04/01/12	0	04/01/12	04/01/12		Milestone 5 - Complete	04/02/13	0	04/02/13	04/02/13		Milestone 6 - Landscape and Planting Maintenance and Warranty	03/02/14	0	03/02/14	03/02/14		Option C - Complete DWP Powerline Overhead at Lassen Street	05/31/10	0	05/31/10	8/10/2010	-71				
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<p><b>Schedule Summary:</b></p> <p>Date of Award: 02/10/10</p> <p>Notice to Proceed: 03/01/10</p> <p>Original Substantial Completion Duration: 730</p> <p>Current Substantial Completion Duration: 730</p> <p>Elapsed Time from NTP: 123</p>	<p><b>Cost Summary:</b> <span style="float: right;"><b>\$ In 000's</b></span></p> <p>1. Award Value: 82.49</p> <p>2. Executed Modifications: 0.00</p> <p>3. Approved Change Orders: 0.06</p> <p>4. Current Contract Value (1 + 2 + 3): 82.55</p> <p>5. Incurred Cost: 11.00</p>																																																					



## **CHRONOLOGY OF EVENTS**

January 5, 2010	Notice to proceed to GMX Construction, Inc., for Contract No. C0954 Chatsworth Mobile Home Privacy Fence.
January 13, 2010	CTC approved a request to use \$14.7 million in Measure R Transit Capital 35% funds for a Proposition 1B Letter of No Prejudice arrangement in lieu of FY2010 SLPP funds.
January 19, 2010	Metrolink completed realignment of approx. 3,300 feet of existing active track.
February 10, 2010	Issued Notice of Award to Brutoco Engineering & Construction, Inc. for Contract No. C0943 Design- Build.
February 26, 2010	Issued Notice-to-Proceed to Brutoco Engineering & Construction, Inc. for Contract No. C0943 Design-Build, effective March 1, 2010.
March 24, 2010	Set up Integrated Project Management Office at construction site.
April 26, 2010	MTA executed agreement with Union Pacific (UP) for various easements for the Lassen bridge located in UP property.
May 3, 2010	Completed all real estate relocations.
May 7, 2010	Metrolink completed new rail signal work and removed existing signals equipment.
May 14, 2010	Completed Privacy Fence at Chatsworth Mobile Home Park (CMHP).

**Note: For Chronology of Events prior to January 2010, see the May 2010 Monthly Project Status Report.**

## **CONSTRUCTION PHOTOGRAPHS**



Subcontractor installing vault manhole on Lassen Street.

**APPENDIX  
LIST OF ACRONYMS**

CADD	Computer Aided Drafting and Design
CALTRANS	California Department of Transportation
CD	Calendar Day
CDFG	California Department of Fish and Game
CM	Construction Manager
CMAC	Congestion Mitigation Air Quality
CN	Change Notice
CO	Change Order
COE	Corps of Engineers
CPM	Critical Path Method
CPUC	California Public Utilities Commission
CR	Camera Ready
CTC	California Transportation Commission
CUD	Contract Unit Description
D-B	Design-Build
D-B-B	Design-Bid-Build
DD	Design Development
DEIR	Draft Environmental Impact Report
DWP	Department of Water and Power
EIR	Environmental Impact Report
EIS	Environmental Impact Statement
FD	Final Design
FEIR	Final Environmental Impact Report
FIS	Financial Information System
FOCT	Fiber Optics Cable Transmission System
FTE	Full Time Equivalent
GDSR	Geotechnical Design Summary Report
IFB	Invitation for Bid
IPO	Integrated Project Office
JV	Joint Venture
LA	Los Angeles
LABOE	Los Angeles Bureau of Engineering
LACFCD	Los Angeles County Flood Control District
LADOT	Los Angeles Department of Transportation
LADPW	Los Angeles Department of Public Works
LADWP	Los Angeles Department of Water and Power
LFAT	Local Field Acceptance Test
LNTP	Limited Notice To Proceed
LONP	Letter Of No Prejudice
LRTP	Long Range Transportation Plan
METRO	Los Angeles County Metropolitan Transportation Authority
MIS	Major Investment Study

**APPENDIX  
LIST OF ACRONYMS (Continued)**

MOL	Metro Orange Line
MOL EXT	Metro Orange Line Extension
MPSR	Monthly Project Status Report
N/A	Not Applicable
NTE	Not to Exceed
NTP	Notice To Proceed
OCIP	Owner-Controlled Insurance Program
P6	Primavera Project Planner® (scheduling software)
PC	Project Control
PE	Preliminary Engineering
PIP	Project Implementation Plan
PM	Project Manager
PMA	Project Management Assistance
PMP	Project Management Plan
P&P	Policies & Procedures
PR	Project Report
PSR	Project Study Report
QA	Quality Assurance
QAR	Quality Assurance Report
QC	Quality Control
QPSR	Quarterly Project Status Report
RFC	Request For Change
RFP	Request For Proposal
ROD	Revenue Operations Date
ROM	Rough Order of Magnitude
ROW	Right-Of-Way
RR	Railroad
RWQCB	Regional Water Quality Control Board
SCE	Southern California Edison
METROLINK	Southern California Regional Rail Authority
SFV	San Fernando Valley
SIT	System Integration Testing
SOV	Schedule Of Value
SOW	Statement Of Work
SP	Special Provision
TBD	To Be Determined
UFS	Universal Fare System
VE	Value Engineering
WBS	Work Breakdown Structure
WP	Work Package