



Metro Orange Line Extension

MONTHLY PROJECT STATUS REPORT



TABLE OF CONTENTS

	Page No.
Project Overview.....	1-2
Management Issues.....	2
Project Status	
• Project Scope.....	3
• Schedule	
○ Key Milestones Six-Month Look Ahead	4
○ Schedule Narrative	4
○ Summary Schedule.....	5
• Project Cost Status and Analysis.....	6
• Financial/Grant Status.....	7
• Staffing.....	8-10
• Real Estate.....	11
• Quality Assurance.....	11
• Environmental.....	12
• Community Relations.....	12
• Art Development.....	12
• Safety.....	13
• Third Party.....	13
• Contract C0943 Status.....	14
Chronology of Events.....	15
Construction Photographs.....	16

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 bridge) 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 Lassen bridge,
- 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), and
- Removed known hazardous materials and demolished vacant structures.

The design builder, Brutoco Engineering & Construction, Inc, started on March 1, 2010 and is responsible for the construction of the Lassen bridge 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,
- Relocation of utilities conflicting with Lassen bridge foundations.
- Construction of Abutment No. 1 and No. 4 foundations of Lassen bridge,
- Removal of potentially contaminated soils,
- Final design of the busway, street crossings, bikeway, stations and remaining bridges.

Other Project specific items required for revenue operations includes:

- Purchase and install fare collection equipment – a contract modification was executed in October with Cubic Transportation Systems, Inc., for required equipment.
- Station Artwork – selected artists for station artwork , and
- Vehicles – complete a midlife overhaul of existing Orange Line buses and add buses to the fleet in time for a summer of 2012 opening.

To date, commitments are \$115.0 million or 53.4% of the Original Budget. Expenditures are \$32.2 million or 15.0% of the \$215.6 million Original Budget.

Design-builder's final design percent complete is 75.3% and construction physical percent complete is 4.3%.

MANAGEMENT ISSUES

Concern No. 1: Underground work on Lassen Street and abutment foundation work for Lassen bridge is delayed due to differing site conditions, Metrolink approvals and design builder's quality control issues.

Status/Action MTA has issued design changes to mitigate differing site conditions. Metrolink to issue permit to LADWP and Time Warner for relocation of overhead lines. Design builder is addressing the quality issues relating to the bridge.

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 bridge, 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 bridge (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 Lassen 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 Lassen bridge.

KEY MILESTONE SCHEDULE SIX-MONTH LOOK AHEAD

	Milestone Date	Oct-10	Nov-10	Dec-10	Jan-11	Feb-11	Mar-11
DESIGN of C0943							
Issue Approved For Construction Design Unit 4	1/7/11*				■		
Issue Approved For Construction Design Unit 5	2/22/11*					■	
Issue Approved For Construction Design Unit 1	2/23/11*					■	
Issue Approved For Construction Design Unit 3	3/1/11*						■
Issue Approved For Construction Design Unit 2	3/30/11*						■
CONSTRUCTION of C0943							
LADWP to commence Underground Relocation of Power Lines on Lassen Street	11/8/10*		▲				
Demo Existing L.A. River and Santa Susana Bridge Portion	11/3/10*		■				
Option C - Complete Underground Conduit System on Lassen Street	11/5/10*		■				
Commence Lassen Bridge Bent 2 and 3	11/8/10*		■				
Commence Removal of contaminated soils	11/15/10*		■				
Commence Rough Grade at north end of Orange Line Ext.	11/22/10*		■				
Commence Lassen Bridge Falsework	2/11/11*					■	

 MTA Staff
  MTA Board Action
 "A" following date is actual and completed
 Other Agencies
  Design Builder
 * New Date

SCHEDULE NARRATIVE

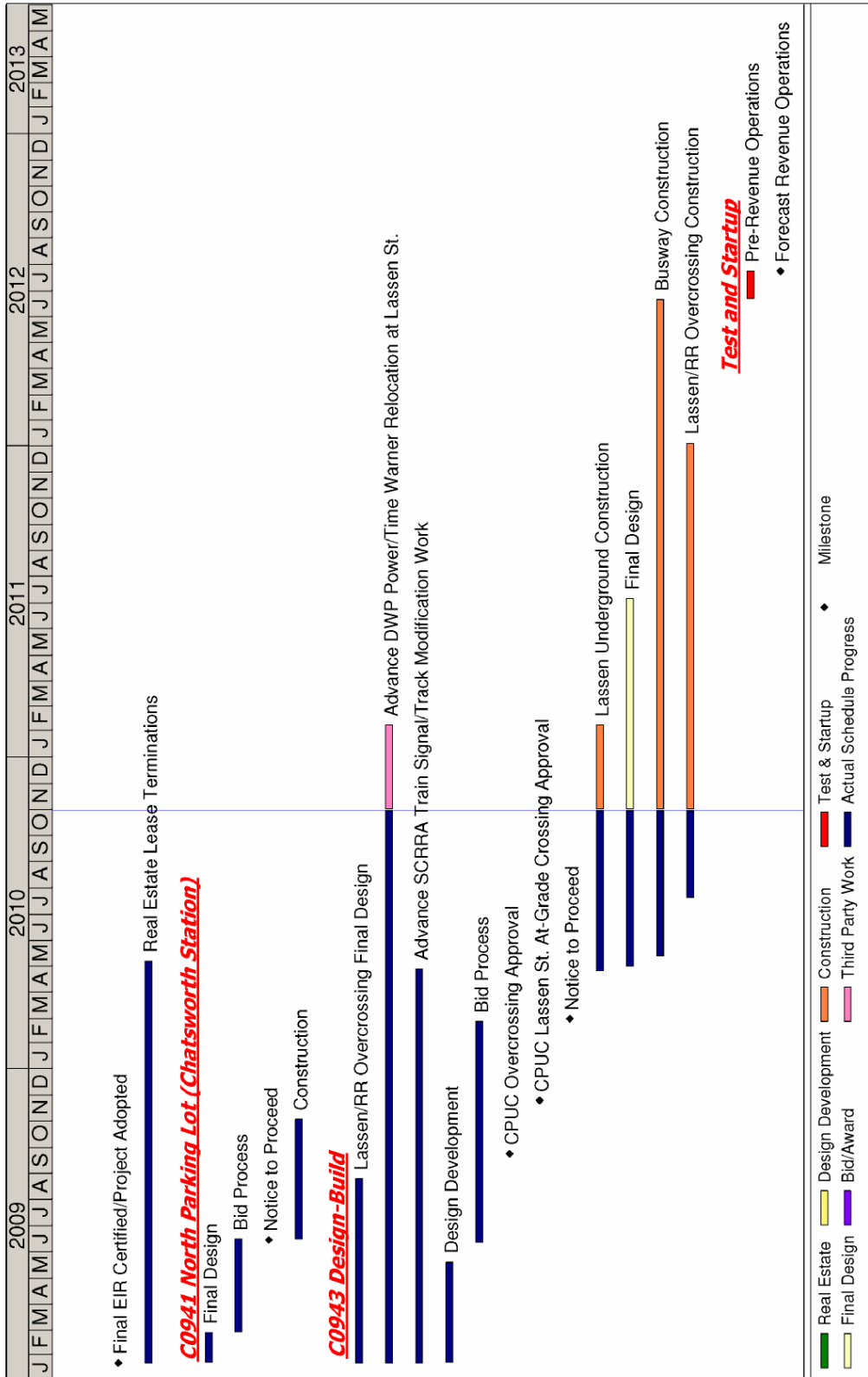
Critical Path:

The Design Builder's schedule update shows the critical path continuing with the Lassen Street underground conduit relocation and then underground relocation of power lines. The relocation of underground utilities, tie-in conduits and vaults are nearing completion on Lassen Street. This will allow DWP to relocate overhead power lines prior to Design Builder commencing falsework placement for Lassen bridge construction.

Concurrently, a secondary critical path continues with the design of the Prairie Street intersection and the subsequent construction of intersections at Prairie, Nordhoff, Roscoe, Valerio, and Van Owen streets. The Design Builder received comments from Metro and the City on the last 85% design submittal, Prairie Street Intersection, in late October and is proceeding with 100% design for the intersections. The Design Builder has been authorized by the City to incorporate full street closures as part of intersection construction. This will save the Design Builder time in constructing the intersections and mitigate potential schedule delays.

The critical path continues until intersections and the Lassen Bridge is completed, followed by systems testing and pre-revenue operations.

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	2.6	88.1	1.9	18.4	-	119.6	(17.7)
R	RIGHT-OF-WAY	8.0	-	8.0	-	4.2	-	1.7	(0.8)	4.2	(3.8)
V	VEHICLES / BUSES	9.9	-	9.9	2.0	2.0	-	-	-	9.9	-
P	PROFESSIONAL SERVICES	38.7	-	38.7	-	20.7	1.1	12.1	-	33.8	(4.9)
PC	PROJECT CONTINGENCY	21.7	-	21.7	-	-	-	-	-	18.7	(3.0)
PB	PROJECT RESERVE	-	-	-	-	-	-	-	0.8	29.4	29.4
PR	PROJECT REVENUE	-	-	-	-	-	-	-	-	-	-
TOTAL		215.6	-	215.6	4.6	115.0	3.0	32.2	-	215.6	-

NOTE: EXPENDITURES ARE CUMULATIVE THROUGH SEPTEMBER 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 increased by \$4.6 million this period. In the Construction element there was an increase of \$2.6 million mainly for third party scope of work with the City of Los Angeles. In the Vehicles element there was an increase of \$2.0 million for midlife overhaul of existing Orange Line buses. The \$115.0 million in commitments to date represents 53.4% of the Original Budget.

Expenditures:

The expenditures are cumulative through September 2010. The expenditures increased by \$3.0 million this period. In the Construction element there was an increase of \$1.9 million primarily for cost associated with the Design-Build Contract C0943 construction effort, environmental mitigation consultants, and third party scope of work with the City of Los Angeles. In the Professional Services element there was an increase of \$1.1 million for costs associated with design engineering consultant, construction management support, Design Build Contract C0943 final design effort, specialty services, and MTA project administration. The \$32.2 million in expenditures to date represents 15.0% of the current budget.

FINANCIAL/GRANT STATUS

Project 800119 – Metro Orange Line Extension

OCTOBER 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
	BUDGET	FUNDS	FUNDS	\$	%	\$	%	\$	%
	(1)	ANTICIPATED	AVAILABLE					SOURCE	
	(2)								
PROP 1B FUNDS-PTMISEA*	68.0	68.0	40.5	68.0	100%	32.2	47%	31.9	47%
PROP 1B FUNDS-SLTPP**	73.8	73.8		47.0	64%		0%		0%
PROP C 25%	73.8	73.8			0%		0%		0%
TOTAL	215.6	215.6	40.5	115.0	53%	32.2	15%	31.9	15%

(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

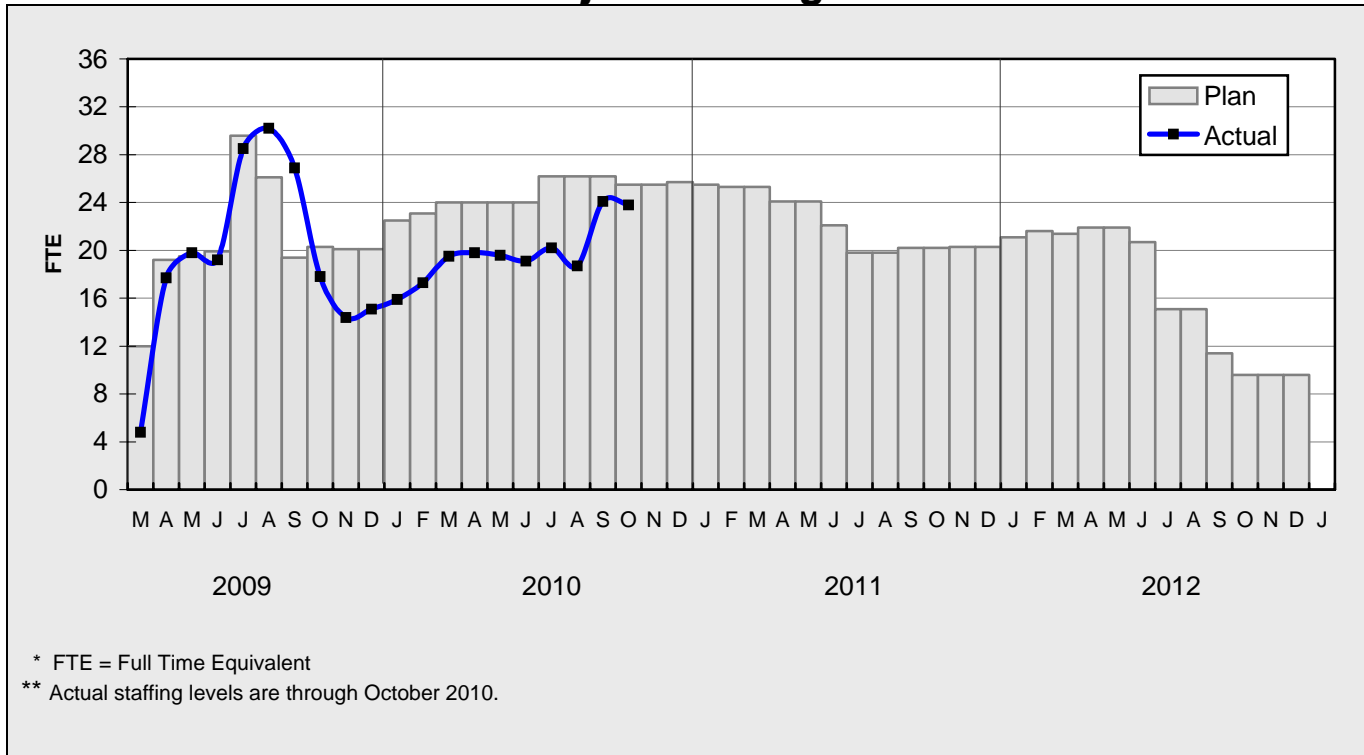
NOTE: Expenditures are cumulative through September 2010.

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 was expected to be approved in September 2010. However, due to the delay in approving the State Budget, this allocation request has not been approved and approval is now expected in November 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. The CTC will again review the allocation request at their November 2010 Meeting. MTA submitted to the CTC an allocation request for \$34.1 million in SLTPP funds in May 2010. The CTC has reviewed the request and added it to their “delivered but not yet allocated” list. MTA is now in place to request an LONP when the funds are required.

**STAFFING STATUS
Total Project Staffing - FTES**



Total Project Staffing

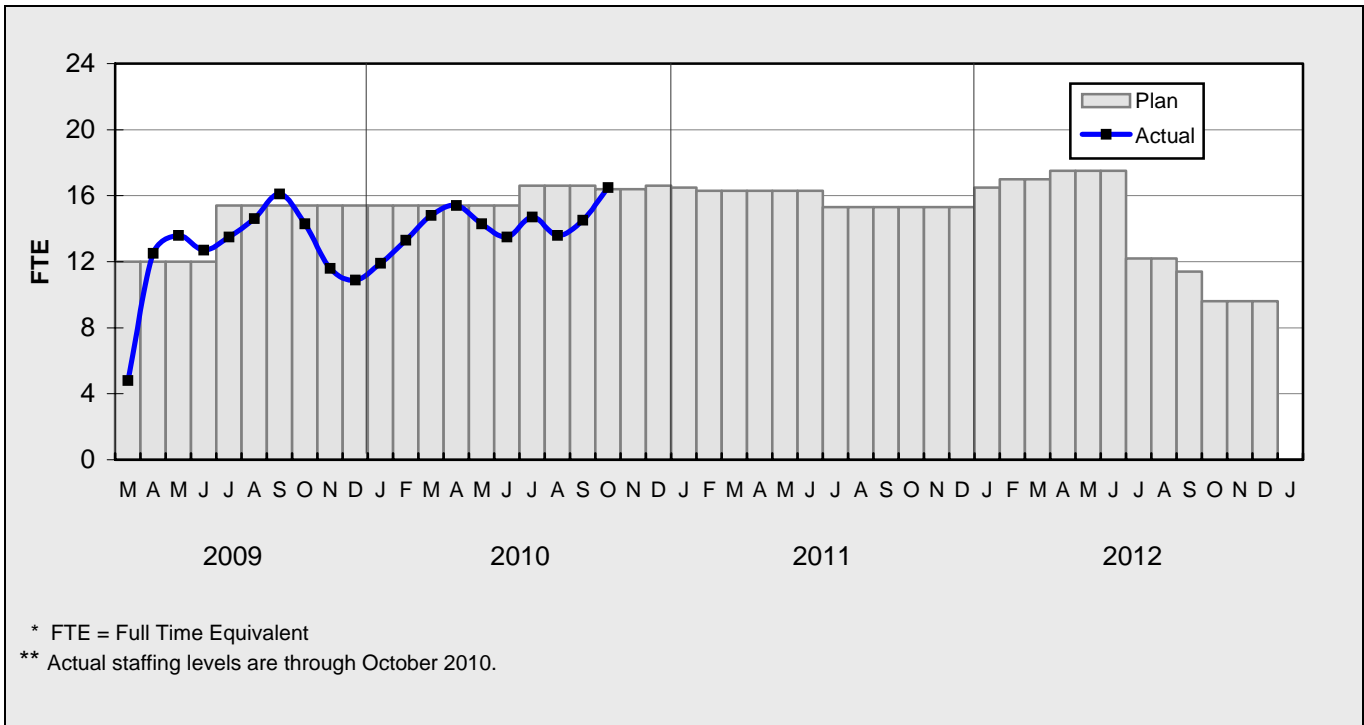
The overall FY11 Total Project Staffing plan averages 25.1 FTE's per month.

The Engineering Services Consultant was higher than planned in September 2010 due to extensive review of design-builder submittals.

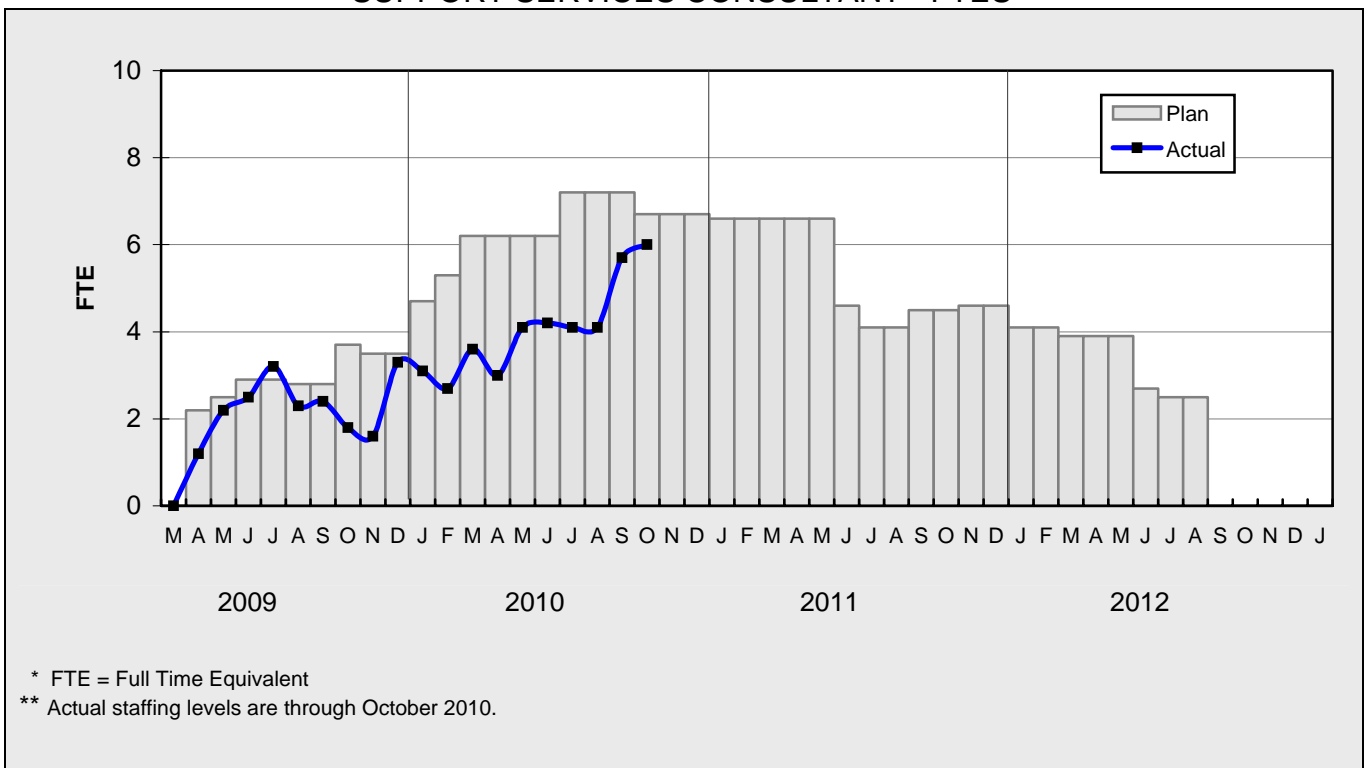
For October 2010, there were a total of 16.5 FTE's for MTA's Project Administration staff and 7.3 FTE's for consulting staff. The total project staffing was 23.8 FTE's for October 2010.

STAFFING STATUS

MTA STAFFING - FTES

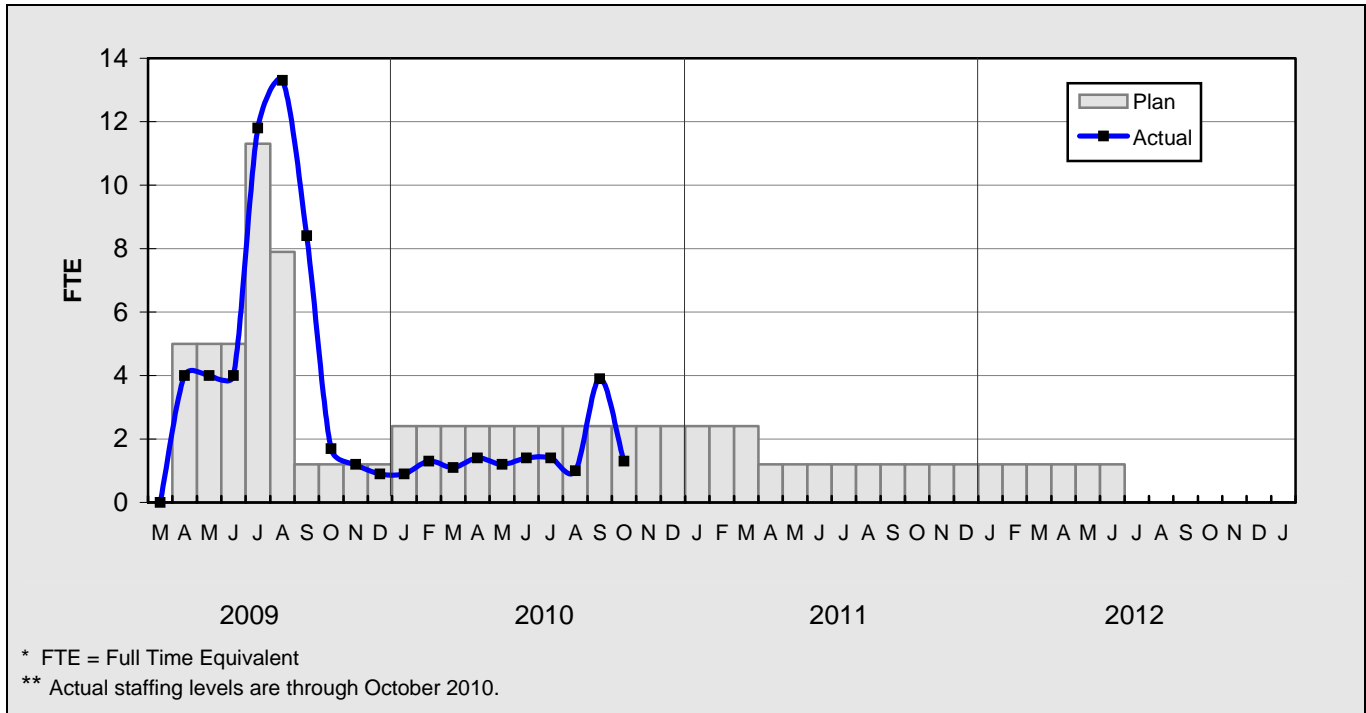


CONSTRUCTION MANAGEMENT SUPPORT SERVICES CONSULTANT - FTES



STAFFING STATUS

ENGINEERING SERVICES CONSULTANT



REAL ESTATE STATUS

- UPRR sent the license to LADWP for underground utilities across UPRR property on August 25, 2010 for approval. The License is being routed for City staff approval.
- MTA sent license to LADWP for the installation of underground utilities across MTA property. The License is being routed for City staff approval.

LEASES

- All Real Estate work required to clear the ROW is completed.

	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 the following construction work along the alignment:
 - Realignment of water and sewer lines to accommodate Bent #3
 - Drilling and pouring CIDH piles at Abutment #4
 - Construction of pile cage for Bent #3.
- Metro’s independent test laboratory took concrete samples for Abutment #1 and Bent #3.
- Issued Non-Conformance Report for #18 bent pile rebar when the Contractor could not provide material traceability records.

ENVIRONMENTAL STATUS

- Responded to Department of Toxic Substances Control Notice to correct improperly filled manifests.
- Monitored removal of hazardous soils at additional locations along the alignment.
- Continued air sampling activities to monitor air quality during construction activities.

COMMUNITY RELATIONS STATUS

- Presented Project Briefing and Construction Update to the San Fernando Valley Governance Council.
- Facilitated meeting with Executive Director of Canoga Park/West Hills Chamber of Commerce regarding Canoga Park's 100 year anniversary and signing up merchants to Metro's discounts program.
- Disseminated 3 construction notices:
 1. Utility underground final connection on Remmet Avenue;
 2. Time Warner cable undergrounding on Lassen Street; and
 3. No parking on South Lot at Chatsworth Metrolink Station.

ART DEVELOPMENT STATUS

- Executed three contracts with artists. Remaining two contracts are in process.
- Provided art design review comments for 85% submittal for Canoga and Chatsworth Stations.

SAFETY STATUS

CO943:


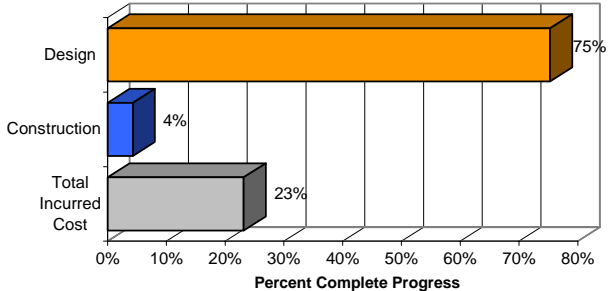
- Participated in weekly Tool-Box Safety Meeting, progress meetings with Construction Management and Metrolink Safety Training.
- Monitored construction activities on a daily basis to ensure safety compliance with contract specifications.
- Participated in Contractor’s on-site safety audit. Deficiencies were observed and corrected.
- Brutoco and their subcontractors reported zero incidents and 8,244 work hours for the month of October 2010. Total project to date work hours are 47,898 and the incident rate is zero.

THIRD PARTY AGREEMENT STATUS

Third Party	Type of Agreement	Forecast Execution Date	Required Need Date	Status/ Comments
City of Los Angeles	Licensing Agreement	12/10	N/A	Licensing agreement has been agreed upon by LADOT. The agreement is on hold pending City concurrence with exhibits due to City maintenance funding issues.
City of Los Angeles	O & M Agreement	12/10	N/A	The O&M agreement for the Chatsworth Metrolink Station site has been reviewed by MTA and transmitted to the City for their review.

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>Design Builder Contractor: Brutoco, Engineering and Construction, Inc.</p>	<p>Contract No.: C0943 Status as of: October 29, 2010</p>																																								
<p>Progress/Work Completed:</p> <ul style="list-style-type: none"> - Metro submitted review comments for 85% Design Unit 1, segments 7-9 - Metro continues review of 85% Design Unit 3 for Canoga and Chatsworth stations. - Metro continues review of 85% Design Unit 4 of Roscoe, Parthenia, and Nordhoff intersections. - 75% of Abutment 1 piles of Lassen bridge have been drilled, placed and poured. - Commenced pile installation for Abutment 4 of Lassen bridge. - Nearing completion of tie-in conduits & vaults at Lassen St. underground relocation of power lines. - DWP placed remaining new feeder pole. - Time Warner fiber cables pulled at Lassen St. 	<p>Areas of Concern:</p> <ul style="list-style-type: none"> -Potential design changes at the Sherman Way Station and right turn pocket extension and the potential reconfiguration of the bikepath by LADOT may impact design completion as originally planned. -Contractor's October schedule update indicates potential delays in achieving future Contract milestones. However, contractor has presented potential mitigation opportunities such as full street closures at the intersections, early bent construction and early power pole relocation design at the Prairie/Canoga pinch point. Anticipate all schedule variances to Contract milestones may be mitigated in the near future. 																																								
<p>Schedule Assesment: Final design continues with 85% Design Units 3 and 4. Differing site conditions at Abutment 1 and 4 foundations and City requested additional right turn pocket design requirements has delayed progress to date. Mitigation measures are required by the Design Builder to maintain the Contract completion schedule .</p>	<p>Cost Assesment: The current construction contract cost forecast is \$82.91 million and is within the Board authorized budget for this Contract. The Design Builder submitted their 8th payment application in the approved amount of \$1.26 million. Increase in costs to the contract award value are a result of design enhancements and change orders.</p>																																								
<p>Schedule Summary:</p> <table border="0"> <tr> <td>1. Date of Award:</td> <td>02/10/10</td> </tr> <tr> <td>2. Notice to Proceed:</td> <td>03/01/10</td> </tr> <tr> <td>3. Original Substantial Completion Duration:</td> <td>730</td> </tr> <tr> <td>4. Current Substantial Completion Duration:</td> <td>730</td> </tr> <tr> <td>5. Elapsed Time from NTP:</td> <td>242</td> </tr> </table>	1. Date of Award:	02/10/10	2. Notice to Proceed:	03/01/10	3. Original Substantial Completion Duration:	730	4. Current Substantial Completion Duration:	730	5. Elapsed Time from NTP:	242	<p>Cost Summary: \$ In 000's</p> <table border="0"> <tr> <td>1. Award Value:</td> <td>82.49</td> </tr> <tr> <td>2. Executed Modifications:</td> <td>0.18</td> </tr> <tr> <td>3. Approved Change Orders:</td> <td>0.24</td> </tr> <tr> <td>4. Current Contract Value (1 + 2 + 3):</td> <td>82.91</td> </tr> <tr> <td>5. Incurred Cost:</td> <td>19.18</td> </tr> </table>	1. Award Value:	82.49	2. Executed Modifications:	0.18	3. Approved Change Orders:	0.24	4. Current Contract Value (1 + 2 + 3):	82.91	5. Incurred Cost:	19.18																				
1. Date of Award:	02/10/10																																								
2. Notice to Proceed:	03/01/10																																								
3. Original Substantial Completion Duration:	730																																								
4. Current Substantial Completion Duration:	730																																								
5. Elapsed Time from NTP:	242																																								
1. Award Value:	82.49																																								
2. Executed Modifications:	0.18																																								
3. Approved Change Orders:	0.24																																								
4. Current Contract Value (1 + 2 + 3):	82.91																																								
5. Incurred Cost:	19.18																																								
<table border="1"> <thead> <tr> <th>Milestones</th> <th>Original Contract</th> <th>Current Contract</th> <th>Forecast</th> <th>Calendar Day Variance</th> </tr> </thead> <tbody> <tr> <td>Milestone 1 - Contract Substantial Completion</td> <td>02/29/12</td> <td>02/29/12</td> <td>04/13/12</td> <td>-44</td> </tr> <tr> <td>Milestone 2 - Complete Universal Fare System Requirements</td> <td>11/01/11</td> <td>11/01/11</td> <td>09/19/11</td> <td>43</td> </tr> <tr> <td>Milestone 3 - Elect/Communication Requirements Complete</td> <td>01/31/12</td> <td>01/31/12</td> <td>02/08/12</td> <td>-8</td> </tr> <tr> <td>Milestone 4 - Passenger Information System Testing Complete</td> <td>01/26/12</td> <td>01/26/12</td> <td>03/21/12</td> <td>-55</td> </tr> <tr> <td>Milestone 5 - System Assurance Complete</td> <td>02/28/13</td> <td>02/28/13</td> <td>04/03/13</td> <td>-34</td> </tr> <tr> <td>Milestone 6 - Landscape and Planting Maintenance and Warranty</td> <td>02/28/14</td> <td>02/28/14</td> <td>02/28/14</td> <td>0</td> </tr> <tr> <td>Option C - Complete DWP Powerline Overhead at Lassen Street</td> <td>05/28/10</td> <td>05/28/10</td> <td>11/05/10</td> <td>-161</td> </tr> </tbody> </table>	Milestones	Original Contract	Current Contract	Forecast	Calendar Day Variance	Milestone 1 - Contract Substantial Completion	02/29/12	02/29/12	04/13/12	-44	Milestone 2 - Complete Universal Fare System Requirements	11/01/11	11/01/11	09/19/11	43	Milestone 3 - Elect/Communication Requirements Complete	01/31/12	01/31/12	02/08/12	-8	Milestone 4 - Passenger Information System Testing Complete	01/26/12	01/26/12	03/21/12	-55	Milestone 5 - System Assurance Complete	02/28/13	02/28/13	04/03/13	-34	Milestone 6 - Landscape and Planting Maintenance and Warranty	02/28/14	02/28/14	02/28/14	0	Option C - Complete DWP Powerline Overhead at Lassen Street	05/28/10	05/28/10	11/05/10	-161	<p style="text-align: center;">PERCENT COMPLETE from March 1, 2010 to October 29, 2010</p>  <p style="text-align: center;"><i>Construction physical percent complete excludes mobilization and general requirements incurred cost.</i></p>
Milestones	Original Contract	Current Contract	Forecast	Calendar Day Variance																																					
Milestone 1 - Contract Substantial Completion	02/29/12	02/29/12	04/13/12	-44																																					
Milestone 2 - Complete Universal Fare System Requirements	11/01/11	11/01/11	09/19/11	43																																					
Milestone 3 - Elect/Communication Requirements Complete	01/31/12	01/31/12	02/08/12	-8																																					
Milestone 4 - Passenger Information System Testing Complete	01/26/12	01/26/12	03/21/12	-55																																					
Milestone 5 - System Assurance Complete	02/28/13	02/28/13	04/03/13	-34																																					
Milestone 6 - Landscape and Planting Maintenance and Warranty	02/28/14	02/28/14	02/28/14	0																																					
Option C - Complete DWP Powerline Overhead at Lassen Street	05/28/10	05/28/10	11/05/10	-161																																					

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



Preparing rebar cage for Lassen Bridge bent # 3.