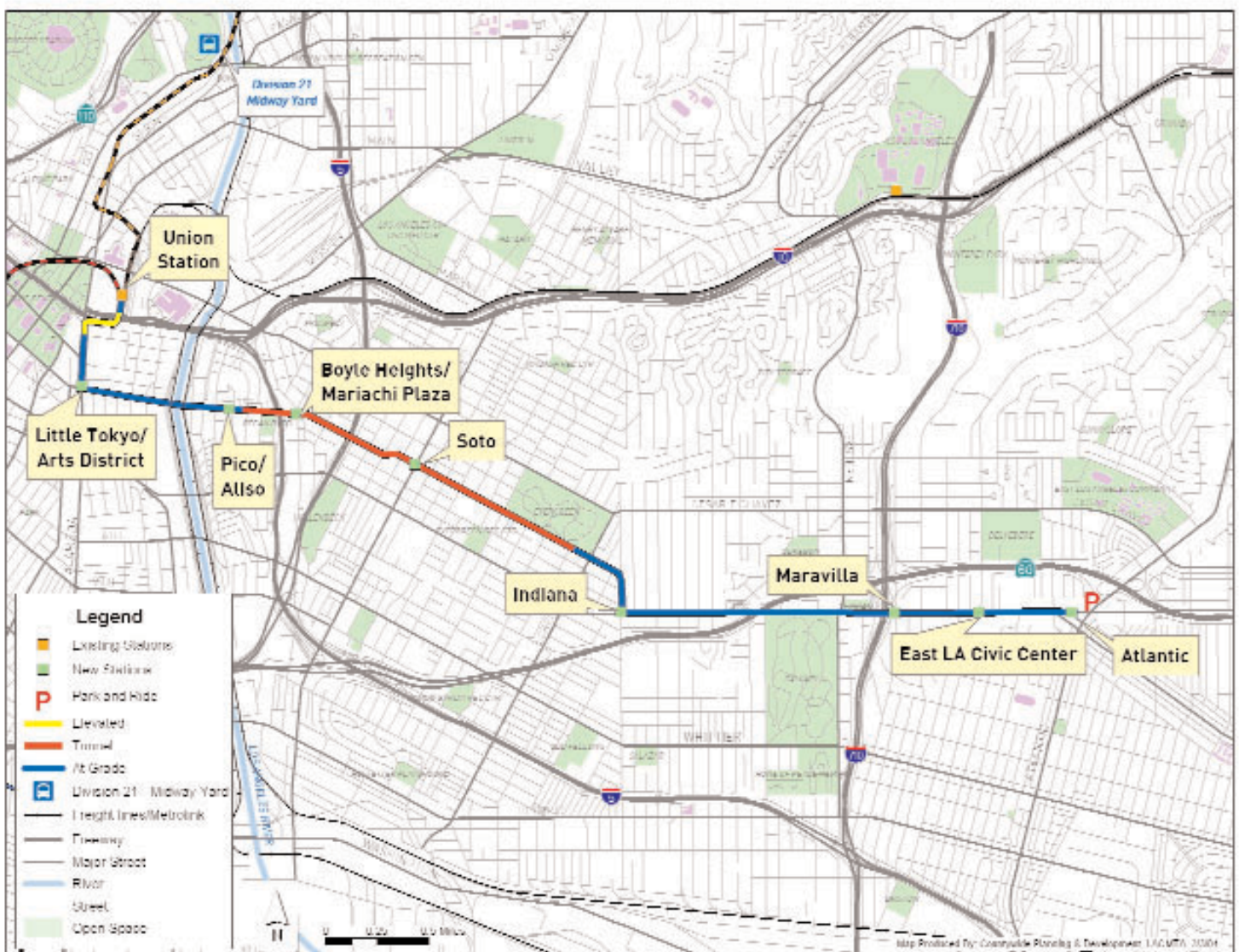


June 2005

# Metro Gold Line Eastside Extension



# **METRO GOLD LINE EASTSIDE EXTENSION**

## **QUARTERLY PROJECT STATUS REPORT**

THE PREPARATION OF THIS DOCUMENT HAS BEEN FINANCED IN PART THROUGH A GRANT FROM THE U. S. DEPARTMENT OF TRANSPORTATION, FEDERAL TRANSIT ADMINISTRATION (FTA), UNDER THE FEDERAL TRANSIT ACT OF 1964, AS AMENDED, AND FUNDS FROM THE STATE OF CALIFORNIA.

**JUNE 2005**

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## PROJECT OVERVIEW

*The Metro Gold Line Eastside Extension Project is a six-mile, dual track light rail system with eight new stations and one station modification. The system originates at Union Station in downtown Los Angeles, where it connects with the Pasadena Gold Line, traveling generally east to Pomona and Atlantic Boulevards. The system will bridge State Route 101 Freeway and traverse the existing 1<sup>st</sup> Street Bridge over the Los Angeles River. The system will travel south on Alameda Street and then east on 1<sup>st</sup> Street with two stations at Alameda and Utah Streets. East of the Los Angeles River and 1<sup>st</sup> and Utah Streets, the alignment transitions to tunnel for approximately 1.7 miles, and continues beneath 1<sup>st</sup> Street to underground stations at 1<sup>st</sup> Street and Boyle Avenue and 1<sup>st</sup> Street and Soto Street. The alignment returns to the surface near the intersection of 1<sup>st</sup> Street and Lorena Streets, then jogs to the south, transitioning to follow 3<sup>d</sup> Street with stations at Indiana Street, Ford Boulevard, Mednik Avenue and Pomona and Atlantic Boulevards.*

The forecast Revenue Operations Date has been adjusted from July 10, 2009 to July 15, 2009, to reflect the schedule impacts caused by rain delays that occurred in October 2004 and January 2005. The Revenue Operations Date, as stated within the Full Funding Grant Agreement, remains at December 31, 2009.

As of the end of this reporting period, the Atlantic Station schematic design and the initial civil design for Segment-5 were submitted for Metro's review. The Soto Station, Pico/Aliso Station and Little Tokyo/Arts District Station 85% Final Design packages are in progress. Also in progress are the East LA Civic Center Station Schematic Designs, Segments-2B, 3B, 3C and 4 Initial Civil Designs and Segments-6 and 7 85% Civil Designs. The 65% Final Designs for traction power, overhead contact, train control and communications systems are also in progress.

All grade crossing applications have been submitted to the California Public Utilities Commission (CPUC) for review. Of the 41 grade crossings, 36 have been approved. The remaining five applications are grade separated crossings.

Boyle Heights/Mariachi Plaza Station excavation, tieback system installation and struts/walers installation are continuing. This month the contractor reported a schedule delay in the Boyle Station excavation activities. The contractor is currently preparing a plan for the remaining Boyle Station excavation work and the construction of grounding mat, invert and sub-invert to mitigate the schedule delay prior to the delivery of the EPBMs.

Soldier pile installation at Soto Station completed in mid-June 2005. The piling equipment was then mobilized to the East Portal to begin installing the remaining soldier piles. Both street widening and soldier pile installation began this month.

Utility relocations at Soto Station, East and West Portals, and along Third Street are continuing.

Major equipment for tunneling work continues to be delivered and installed at the 1<sup>st</sup>/Boyle staging area. The two Earth Pressure Balance Machines (EPBMs) will be shipped from Germany this summer for final assembly and installation in Fall 2005 at the 1<sup>st</sup>/Boyle tunnel access shaft.

The Caltrans contractor for Contract C0802 – 101 Freeway Bridge Overcrossing continued with roadway construction on Commercial Street and the US-101 Freeway on and off ramps.

## **MANAGEMENT ISSUES**

No Management Issues for the period ending June 2005.

## PROJECT SCOPE

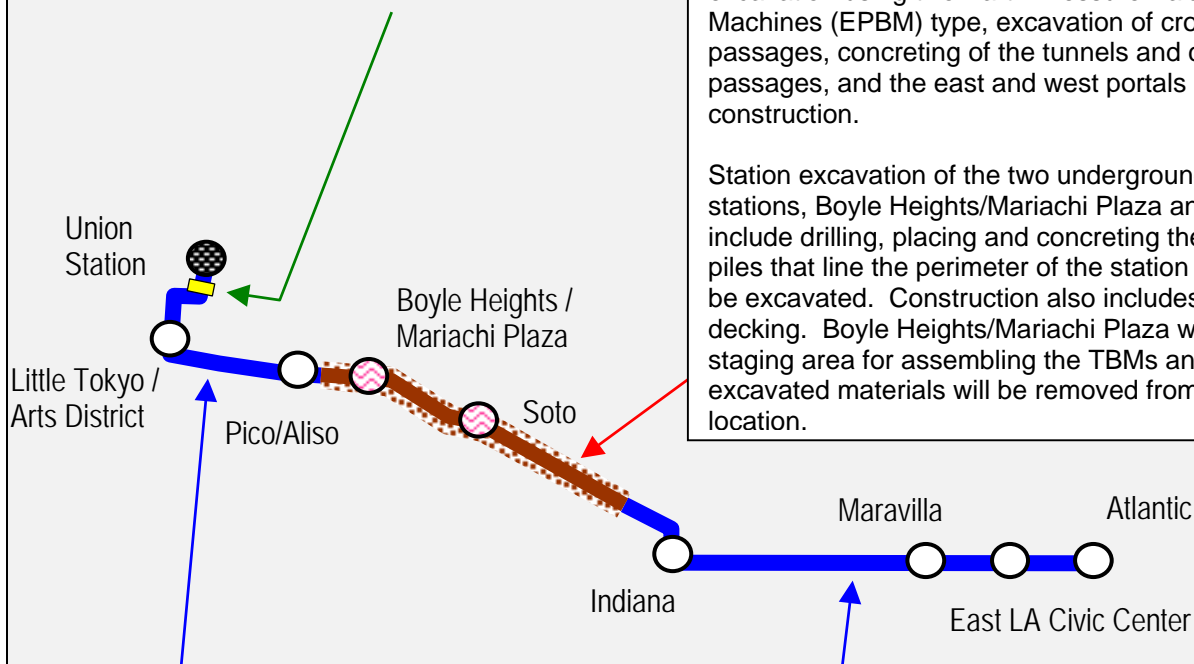
### **Contract C0802 – 101 Freeway Bridge**

**Overcrossing:** The construction of the bridge is combined with Caltrans freeway improvements project. While Caltrans will administer the construction, the LACMTA will provide oversight and is responsible for the construction costs of the bridge overcrossing.

### **Contract C0803 - Tunnel and Station**

**Excavation (Design/Bid/Build):** Construction of the 1.7 mile tunnel segment includes tunnel excavation using two Earth Pressure Balance Machines (EPBM) type, excavation of cross passages, concreting of the tunnels and cross passages, and the east and west portals construction.

Station excavation of the two underground stations, Boyle Heights/Mariachi Plaza and Soto, include drilling, placing and concreting the soldier piles that line the perimeter of the station box to be excavated. Construction also includes street decking. Boyle Heights/Mariachi Plaza will be the staging area for assembling the TBMs and all excavated materials will be removed from this location.











**Contract C0803 - Stations, Trackwork, and Systems (Design/Build):** Construction of the two underground stations includes structural walls, station platforms, mezzanines, station entrances, and plazas, architectural finishes and all related mechanical and electrical work.

Construction of the six-mile alignment includes six at-grade stations, trackwork installation and testing for the entire alignment.

Systems installation and testing is inclusive of power systems, automatic train control, fire and emergency management, TRACS and communications systems. The contractor will be responsible for systems integration testing for the entire line segment prior to pre-revenue operations.

## KEY MILESTONE SCHEDULE SIX-MONTH LOOKAHEAD

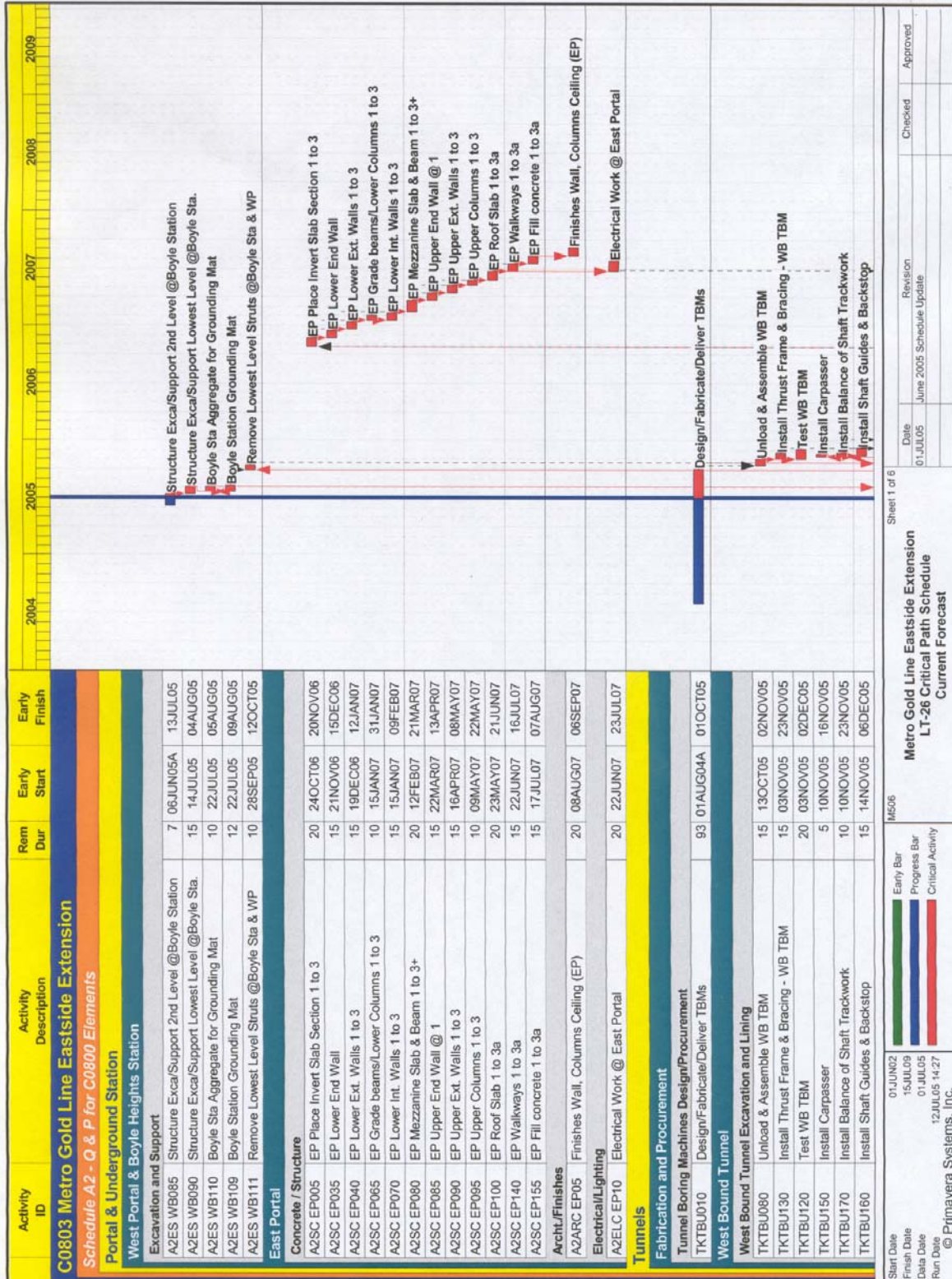
	Milestone Date	Jun-05	Jul-05	Aug-05	Sep-05	Oct-05	Nov-05
Completed West Portal Street Widening Under 101 Freeway (South Side)	6/30/05	○					
Commenced Boyle Station Tie-Back Installation	6/10/05 *	○					
Completed Soto Station Soldier Pile Installation	6/12/05	○					
Commenced Demolition of Existing Sidewalk & Retaining Wall at East Portal	6/14/05	○					
Commenced East Portal Phase II Soldier Pile Installation	6/22/05	○					
Submitted Schematic Design - Atlantic Station	6/30/05 *	○					
Commence West Portal Soldier Pile Installation	7/28/05 *		○				
Submit 85% Design - Little Tokyo Station & Pico/Aliso Station	7/29/05 *		○				
Submit Traction Power/Train Control 65% Design	7/29/05		○				
Complete Boyle Station Box Excavation	8/4/05 *			○			
Submit OCS/Communication 65% Design	8/5/05			○			
Submit Segments-6 & 7 85% Civil Design	8/5/05 *			○			
Commence Boyle Station Sub-Invert Concrete (Partial)	8/8/05 *			○			
Complete Boyle Station Grounding Mat	8/9/05 *			○			
Submit Boyle Station 100% Design	8/19/05 *			○			
Submit Soto Station 85% Design	9/12/05 *				○		
Delivery of Tunnel Boring Machines	10/1/05 *					○	
Submit Schematic Design -East LA Civic Center Station	10/10/05 *					○	
Unload & Begin Assembly of EPBM No. 1 (Westbound Tunnel)	10/13/05 *					○	
Unload & Begin Assembly of EPBM No. 2 (Eastbound Tunnel)	10/20/05					○	
Commence Testing of EPBM No. 1 at Boyle Station	11/3/05						○

 LACMTA Staff Milestone
 Eastside LRT Constructors
 Other Agencies
 New Date
 FTA
 FTA Approval
 Metro
 LACMTA Board Approval



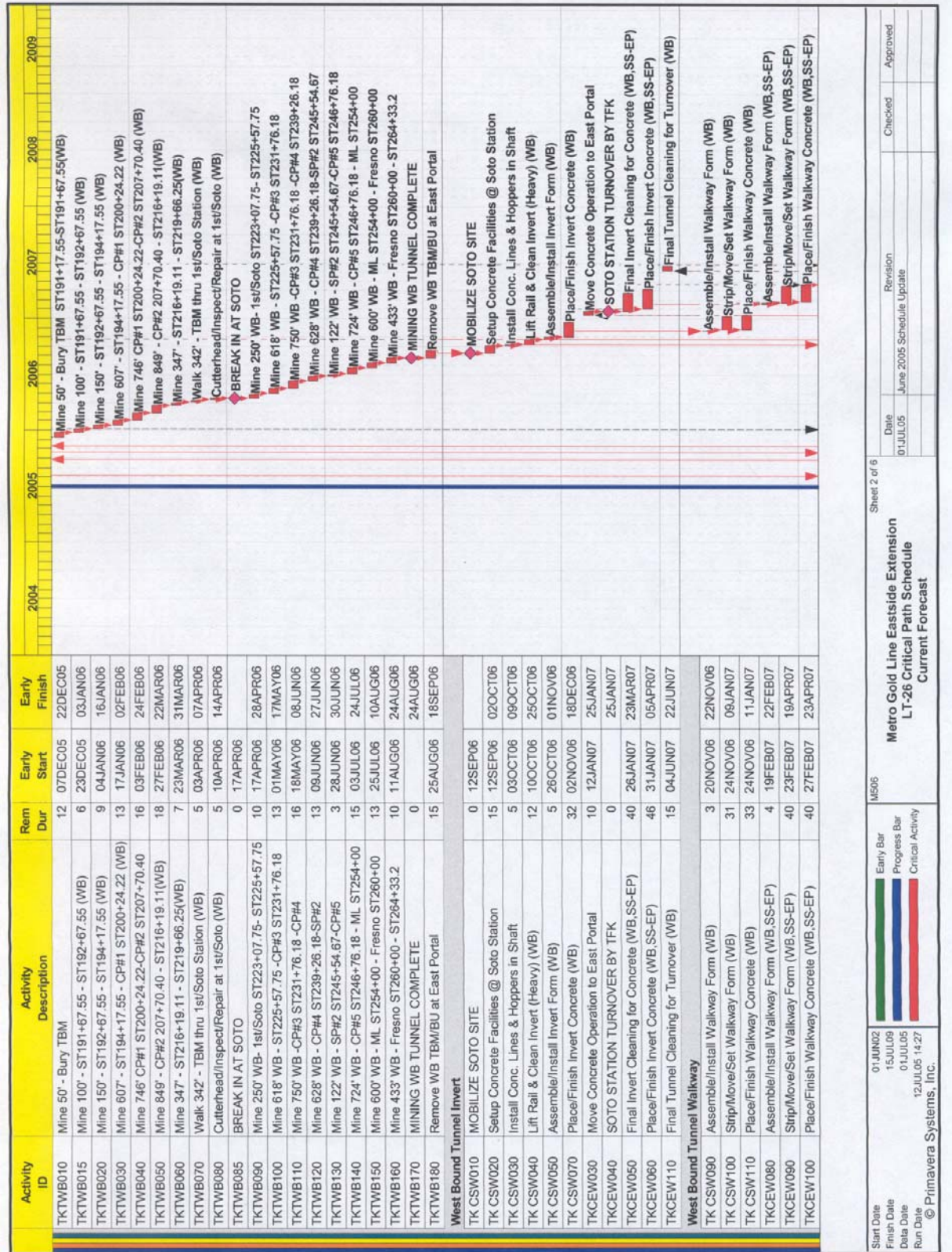
# PROJECT MASTER SCHEDULE

## CRITICAL PATH (1 of 6)



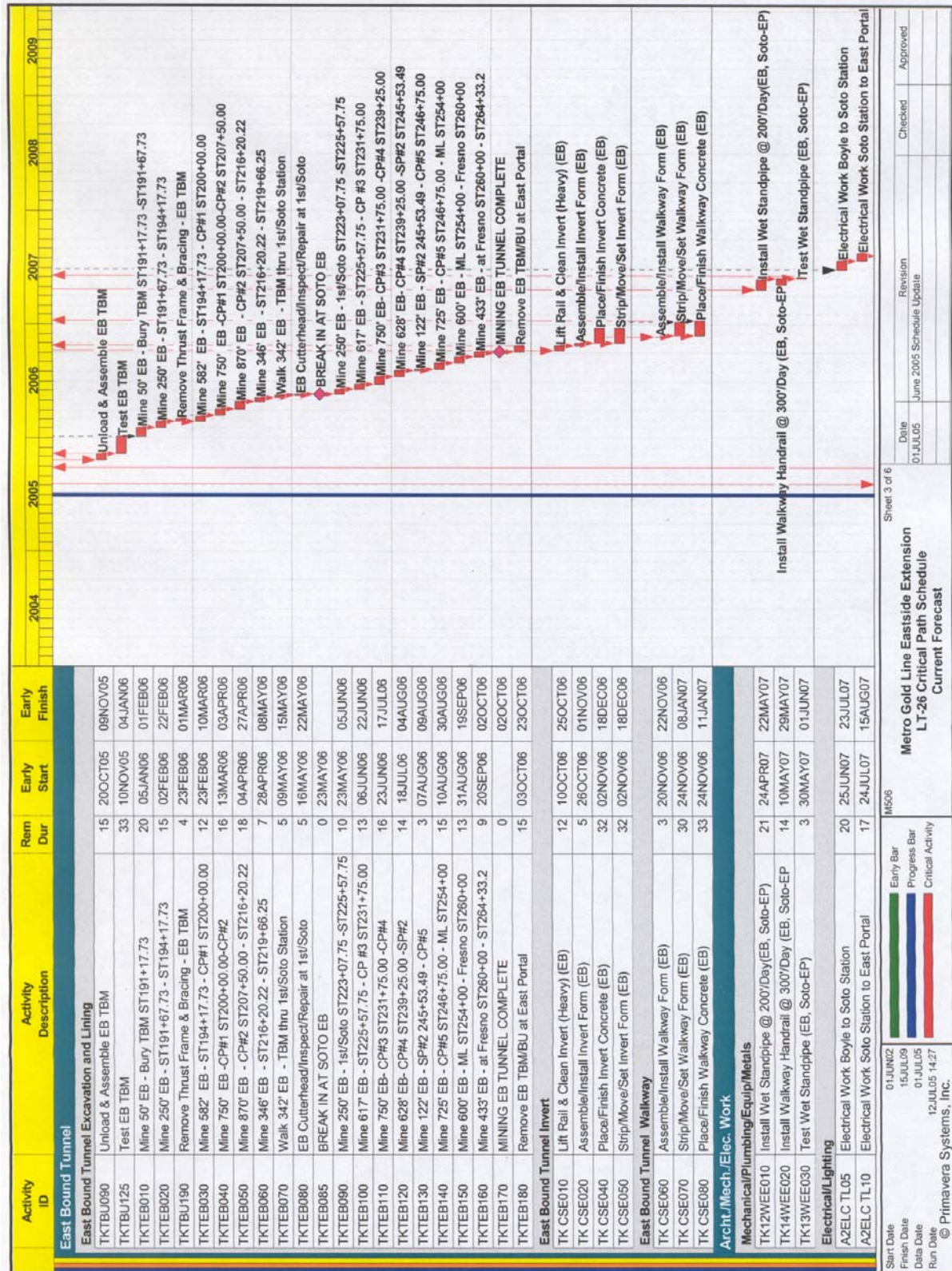


## PROJECT MASTER SCHEDULE CRITICAL PATH (2 of 6)



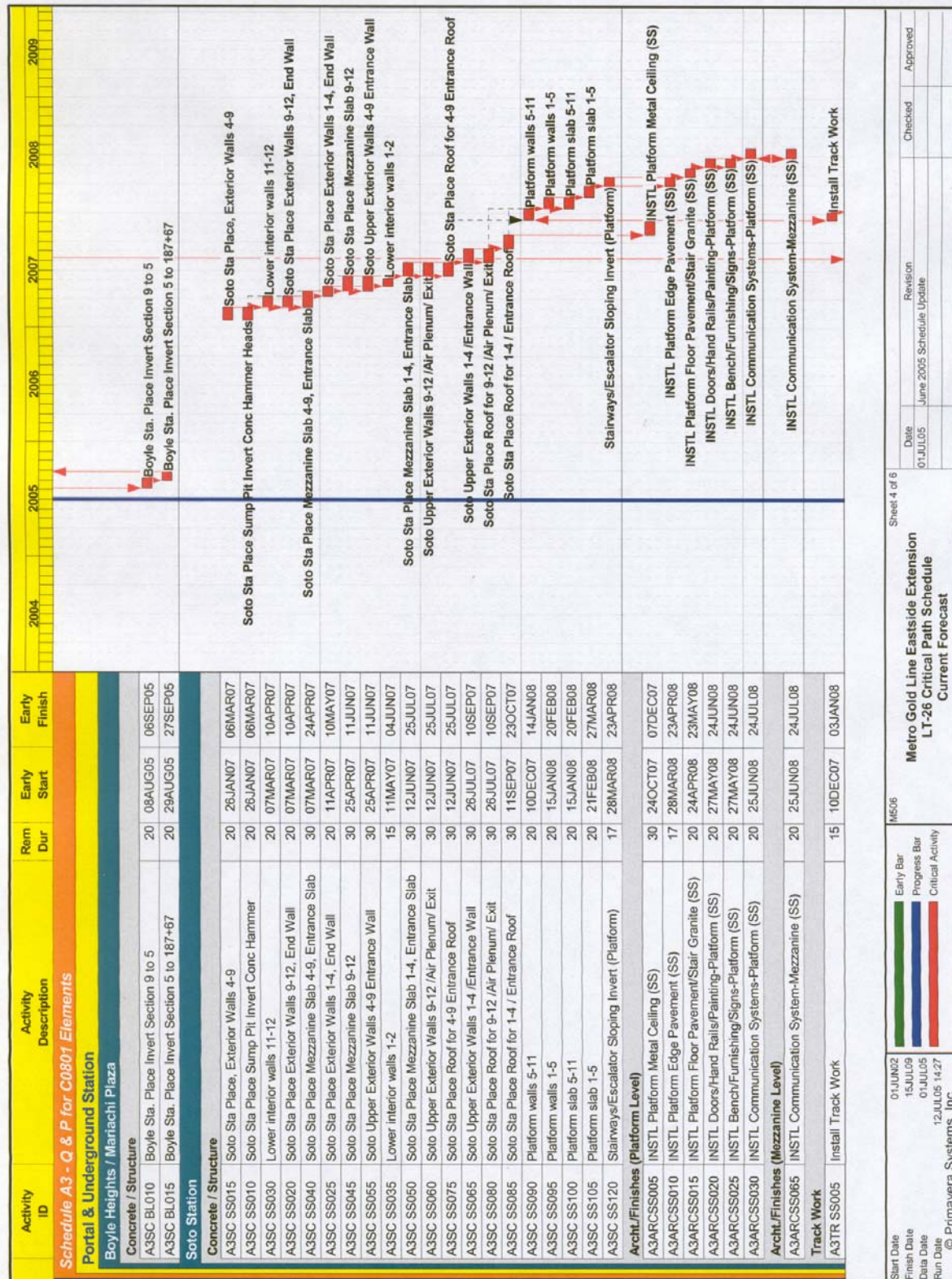


## PROJECT MASTER SCHEDULE CRITICAL PATH (3 of 6)

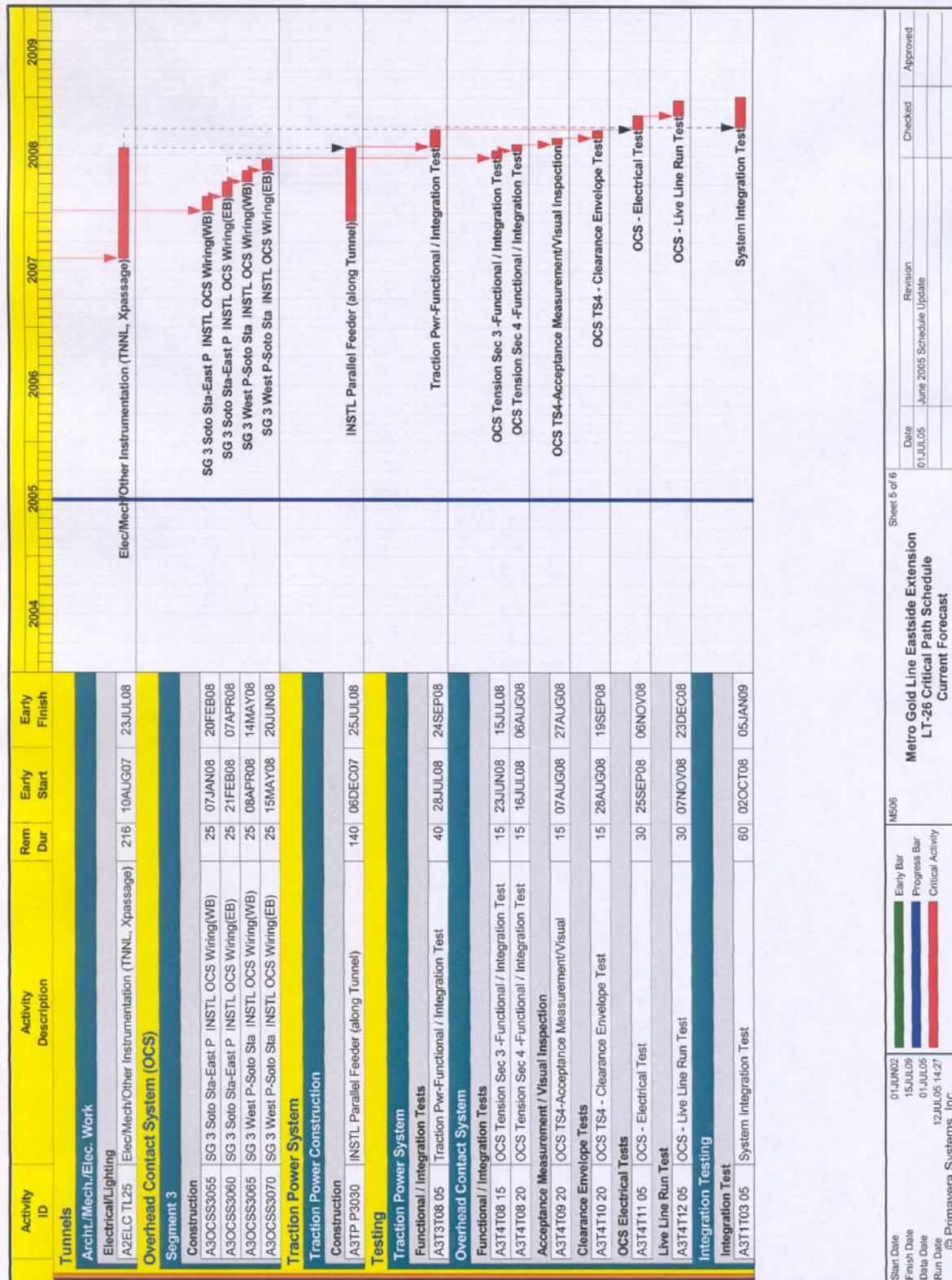




## PROJECT MASTER SCHEDULE CRITICAL PATH (4 of 6)

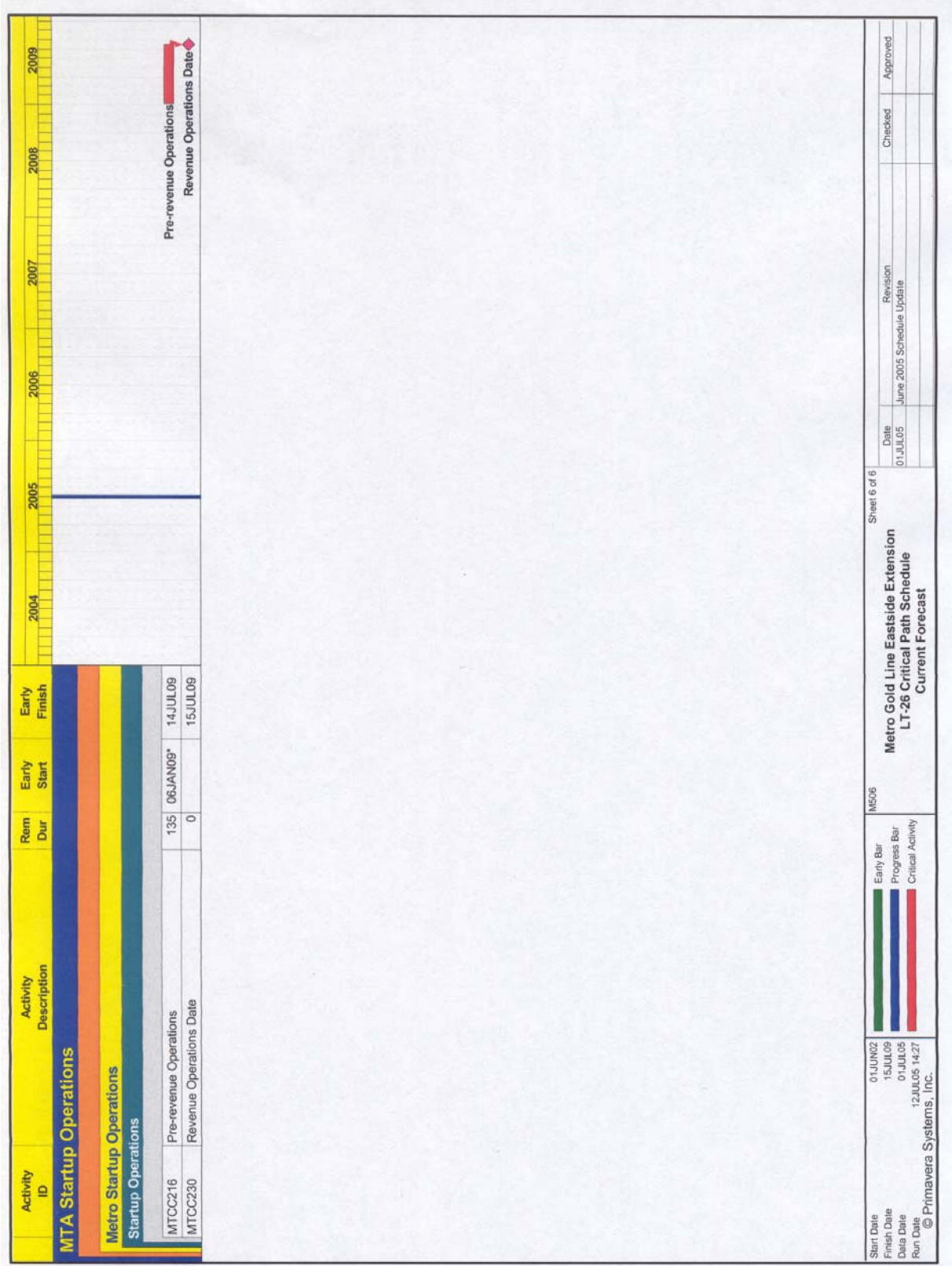


## PROJECT MASTER SCHEDULE CRITICAL PATH (5 of 6)





## PROJECT MASTER SCHEDULE CRITICAL PATH (6 of 6)





## **CRITICAL PATH NARRATIVE**

### **Current Critical Path Analysis**

The delivery of two Earth Pressure Balance Machines (EPBMs) and tunnel liners are on the critical path. Concurrent with these procurements, the project has proceeded with critical tasks such as submittals preparation and review, traffic control, utility relocations, ground treatments, soldier pile installation, deck beam installation and station box excavation.

The Boyle Station second level structural excavation and tie-back system installation began in early June 2005. The excavation at the lowest level is anticipated to finish in early August 2005 followed by the grounding mat and sub-invert concrete. The Boyle Station structural excavation and a portion of the sub-invert are scheduled to complete prior to the arrival of EPBMs. The two EPBMs have been tested and will be shipped from Germany this summer for final assembly and installation at Boyle Station in Fall 2005. Concurrent with the Boyle Station structural excavation, the Soto Station soldier pile installation completed in mid-June 2005 and the piling equipment was mobilized to East Portal to begin soldier pile installation at the north side of 1<sup>st</sup> Street.

The critical path continues with EPBM assemblies, excavation of both tunnels, excavation of crosspassages and tunnel invert construction. The critical path then follows Boyle and Soto Stations construction and the installation of trackwork and overhead contact system for the underground alignment. The system equipment installation such as overhead contact system, train control, traction power, and local facilities testing are the last stage of the critical path prior to entering the final test stage, where systems integration testing and pre-revenue operations are conducted.

### **Design**

During this reporting period, the Atlantic Station schematic design and the initial civil design for Segment-5 were submitted for Metro's review. The following facility design packages and the system design packages are in progress:

- Facility Design Packages:
  1. Soto Station 85% design,
  2. Little Tokyo/Arts District Station 85% design,
  3. Pico/Aliso Station 85% design,
  4. East LA Civic Center Station schematic design,
  5. Segments-2B, 3B 3C, and 4 initial civil design, and
  6. Segments-6 and 7 85% civil design.

## CRITICAL PATH NARRATIVE

- System Design Packages:
  1. Traction power 65% design,
  2. Overhead contact system 65% design,
  3. Train control system 65% design, and
  4. Communication system 65% design.

### Construction

At Boyle Station, the second level excavation, the tie-back system, and the struts/walers installation began in early June 2005 and continued through the end of the month. The installation of surface equipment continued at Bailey Yard and Bodie Yard. In the month of June 2005, the contractor reported a schedule delay in the Boyle Station excavation activities. The contractor is currently preparing a plan for the remaining Boyle Station excavation work and the construction of grounding mat, invert and sub-invert to mitigate the schedule delay prior to the delivery of the EPBMs.

The Soto Station soldier pile installation was completed in mid-June 2005. Deck beam fabrication continued during the month.

Street widening work began in early June 2005 at the East Portal area, including the demolition behind the existing crematorium retaining wall. Phase-2 soldier pile trenching and installation also began in mid-June 2005 and is anticipated to complete by the end of July 2005.

Utility relocations continue at Soto Station, West and East Portals, and along the Third Street alignment.

The Caltrans contractor for Contract C0802 – 101 Freeway Bridge Overcrossing continued with roadway construction on Commercial Street and the US-101 Freeway on and off ramps.

## PROJECT COST STATUS

### COST REPORT BY ELEMENT

#### ORIGINAL SCOPE ACTIVITIES

DOLLARS IN THOUSANDS

ELEM- MENT	DESCRIPTION	ORIGINAL BUDGET	CURRENT BUDGET		COMMITMENTS		EXPENDITURES		CURRENT FORECAST		BUDGET / FORECAST VARIANCE
			PERIOD	TO DATE	PERIOD	TO DATE	PERIOD	TO DATE	PERIOD	TO DATE	
C	CONSTRUCTION	633,221	-	662,391	-	639,224	8,716	151,925	-	662,391	-
S	SPECIAL CONDITIONS	19,494	-	20,329	2	14,972	431	8,886	-	20,329	-
R	RIGHT-OF-WAY	40,358	-	41,742	-	40,711	15	34,683	-	41,742	-
P	PROFESSIONAL SERVICES	135,304	-	135,936	9,792	89,878	1,456	73,048	-	135,936	-
PC	PROJECT CONTINGENCY	60,254	-	28,249	-	-	-	-	-	28,249	-
PR	PROJECT REVENUE	(4,617)	-	(4,633)	-	-	-	(16)	-	(4,633)	-
SUBTOTAL		884,014	-	884,014	9,794	784,785	10,618	268,526	-	884,014	-
PF	PROJECT FINANCE COST	14,800	-	14,800	-	-	-	-	-	14,800	-
TOTAL		898,814	-	898,814	9,794	784,785	10,618	268,526	-	898,814	-

NOTE: EXPENDITURES ARE CUMULATIVE THROUGH MAY 2005

## PROJECT COST ANALYSIS

### Original Budget

The Full Funding Grant Agreement (FFGA) was adopted June 1, 2004 in the amount of \$898.8 million. The Original Budget reflects the adopted FFGA.

### Current Budget and Current Forecast

The total Current Budget and Forecast remains the same at \$898.8 million.

### Commitments

The Commitments increased by \$9.8 million this period due to FY06 negotiated costs for Design Support During Construction and Construction Management Support Services. The \$784.8 million in Commitments to date represents 87.3% of the Original Budget.

### Expenditures

Expenditures are cumulative through May 2005. The Expenditures increased by \$10.6 million this period primarily due to construction costs associated to Contract C0803 – Tunnel, Stations, Trackwork, and Systems. The \$268.5 million in Expenditures to date represents 29.9% of the Original Budget.

## PROJECT COST STATUS

### COST REPORT BY ELEMENT

#### CONCURRENT NON-FFGA PROJECT ACTIVITIES

DOLLARS IN THOUSANDS

ELEM- MENT	DESCRIPTION	ORIGINAL BUDGET	CURRENT BUDGET		COMMITMENTS		EXPENDITURES		CURRENT FORECAST		BUDGET / FORECAST VARIANCE
			PERIOD	TO DATE	PERIOD	TO DATE	PERIOD	TO DATE	PERIOD	TO DATE	
C	CONSTRUCTION	18,000	-	18,000	4,432	4,582	-	-	-	18,000	-
S	SPECIAL CONDITIONS	-	-	-	-	-	-	-	-	-	-
R	RIGHT-OF-WAY	-	-	-	-	-	-	-	-	-	-
P	PROFESSIONAL SERVICES	-	-	-	-	-	-	-	-	-	-
PC	PROJECT CONTINGENCY	-	-	-	-	-	-	-	-	-	-
PR	PROJECT REVENUE	-	-	-	-	-	-	-	-	-	-
SUBTOTAL		18,000	-	18,000	4,432	4,582	-	-	-	18,000	-
PF	PROJECT FINANCE COST	-	-	-	-	-	-	-	-	-	-
TOTAL		18,000	-	18,000	4,432	4,582	-	-	-	18,000	-

NOTE: EXPENDITURES ARE CUMULATIVE THROUGH MAY 2005

## PROJECT COST ANALYSIS

### Original Budget

The Original Budget of \$18.0 million was adopted by the Metro Board on March 24, 2005.

### Current Budget and Current Forecast

The Current Budget and Forecast remains the same at \$18.0 million.

### Commitments

The Commitments increased by \$4.4 million for this period due to executed modifications for the Urban Design Elements and a Low Profile Overhead Contact System. The \$4.6 million in Commitments to date represents 25.5% of the Original Budget.

### Expenditures

There are no Expenditures to date.

## FINANCIAL/GRANT STATUS – ORIGINAL SCOPE ACTIVITIES

JUNE 2005

### STATUS OF FUNDS BY SOURCE

SOURCE	(A) ORIGINAL BUDGET	(B) TOTAL FUNDS ANTICIPATED	(C) TOTAL FUNDS AVAILABLE	(D) COMMITMENTS		(E) EXPENDITURES		(F) BILLED to FUNDING SOURCE	
				(D/B)		(E/B)		(F/B)	
				\$	%	\$	%	\$	%
FEDERAL - SECTION 5309 NEW START	490.7	490.7	17.3	430.4	88%	17.3	4%	17.3	4%
FED - SECTION 5309 FIXED GUIDEWAY	23.1	12.0			0%		0%		0%
FEDERAL - CMAQ	10.3	10.3			0%		0%		0%
REGIONAL IMPROVMT PROG-FED	179.6	179.6	4.6	179.6	100%	4.6	3%	4.6	3%
REGIONAL IMPROVM PROG-STATE	0.6	0.6	0.6	0.6	100%	0.6	100%	0.6	100%
STATE TCRP	45.0	45.0	45.0	45.0	100%	45.0	100%	45.0	100%
PROP A 35% / PROP C 40% BONDS	124.6	135.7	105.9	119.0	88%	105.6	78%	105.6	78%
LEASE REVENUES	10.1	10.1	10.1	10.1	100%	10.1	100%	10.1	100%
UNBILLED ACCRUALS						85.3			
SUB-TOTAL	884.0	884.0	183.5	784.8	89%	268.5	30%	183.2	21%
PROP A/PROP C (INTEREST COST)	14.8	14.8	0.0	0.0	0%	0.0	0%	0.0	0%
TOTAL	898.8	898.8	183.5	784.8	87%	268.5	30%	183.2	20%

NOTE: EXPENDITURES ARE CUMULATIVE THROUGH MAY 2005.

## STATUS OF FUNDS ANTICIPATED

**FEDERAL SECTION 5309:** The LACMTA submitted a grant amendment application CA-03-0508-04 for \$3,934,330 on April 18, 2003. Funds were available for draw down as of June 2003. On June 1, 2004, the FTA approved the Full Funding Grant Agreement for \$490.7 million of New Starts Funds. The LACMTA received an appropriation of \$59.5 million for FY05. A grant application has been submitted to FTA and is awaiting approval. However, because Congress has yet to approve a reauthorization bill, only \$39.1 million is currently available.

**FEDERAL CMAQ:** The LACMTA submitted a grant application for \$10, 276.000 in June 2005. Grant approval is expected in July 2005.

**RIP-FEDERAL:** LACMTA has submitted a request for an AB 3090 reimbursement allocation of \$43.6 million in STP funds to the CTC for consideration at their July 2005 meeting.

**STATE TCRP:** On April 3, 2003 the California Transportation Commission approved LACMTA's request to amend the STIP to convert \$191 million of unallocated TCRP funds to STIP funds. On August 25, 2003, LACMTA submitted a request for AB1335 Letter of No Prejudice (LONP) authority for Phase 4 construction activities. In March 2005, the LACMTA resubmitted a request for approval of a LONP for \$189.2M for Phase 4 (Construction) to the CTC for consideration at the May 2005 CTC Meeting. The CTC approved the LONP for



\$166.9 million.

## FINANCIAL/GRANT STATUS

### CONCURRENT NON-FFGA PROJECT ACTIVITIES

JUNE 2005

#### STATUS OF FUNDS BY SOURCE

in \$ millions

SOURCE	(A) ORIGINAL BUDGET	(B) TOTAL FUNDS ANTICIPATED (1)	(C) TOTAL FUNDS AVAILABLE	(D) COMMITMENTS \$	(D/B) %	(E) EXPENDITURES \$	(E/B) %	(F) BILLED to FUNDING SOURCE \$	(F/B) %
FEDERAL - CMAQ	14.0	14.0		0.6	4%		0%		0%
PROP A 35% / PROP C 40% BONDS	4.0	4.0		4.0	100%		0%		0%
UNBILLED ACCRUALS									
TOTAL	18.0	18.0	0.0	4.6	25%	0.0	0%	0.0	0%

(1) Based on March 2005 Board Report.

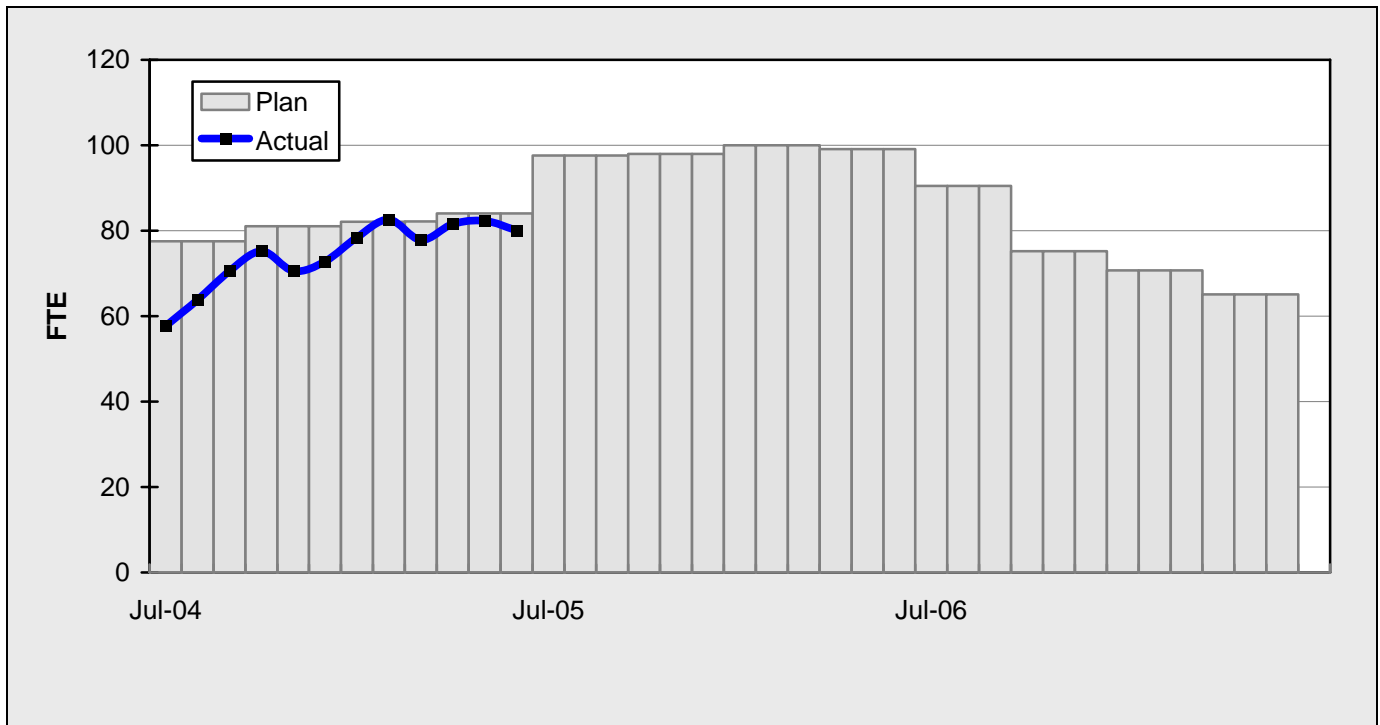
NOTE: EXPENDITURES ARE CUMULATIVE THROUGH MAY 2005.

### STATUS OF FUNDS ANTICIPATED

**FEDERAL CMAQ:** The LACMTA submitted a grant amendment application to the FTA on June 2005 for \$9.9 million. Grant approval is expected in September 2005.

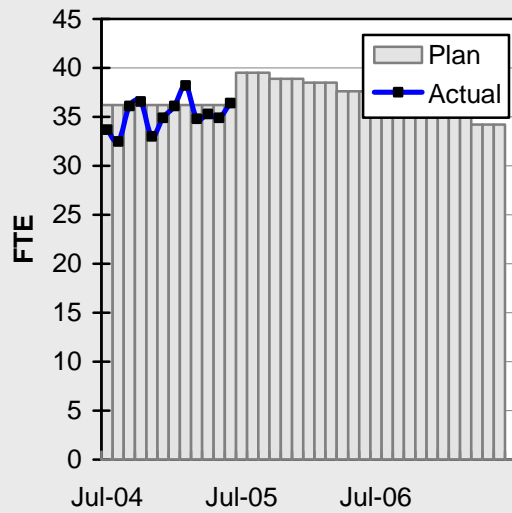
## STAFFING STATUS

### TOTAL PROJECT STAFFING

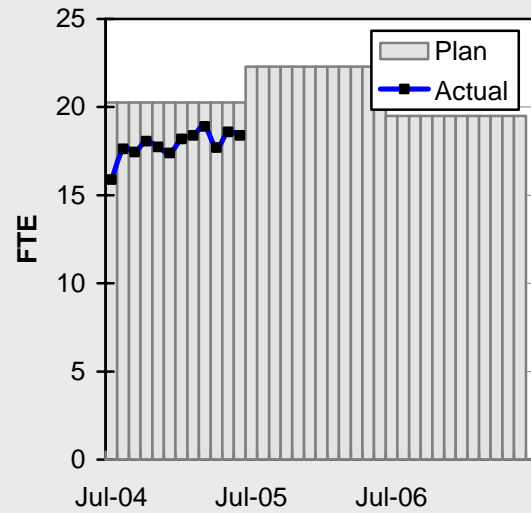


## STAFFING STATUS

### DIRECT AGENCY STAFFING

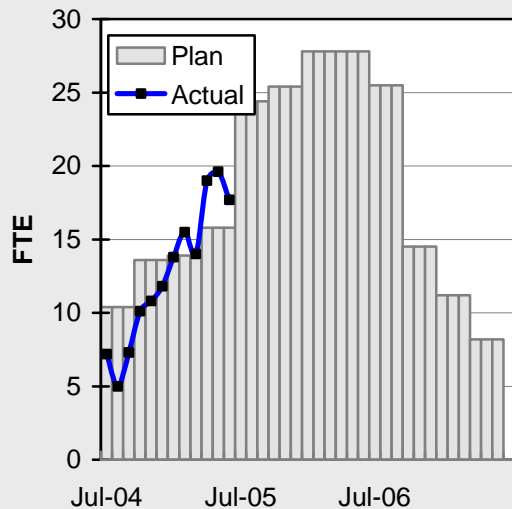


### INDIRECT AGENCY STAFFING

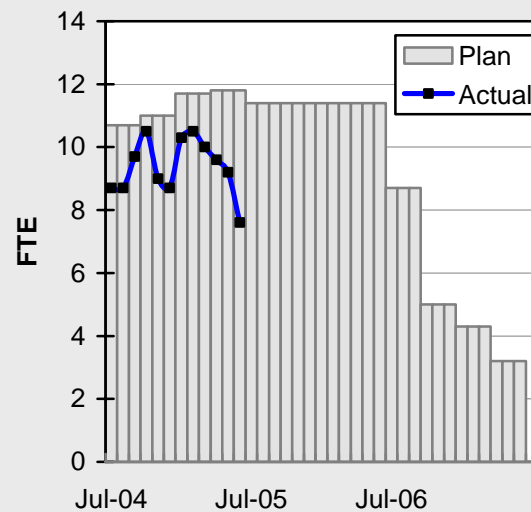


\* For fiscal year 2005, indirect staffing levels are no longer part of overhead costs.

### CONSTRUCTION MANAGEMENT



### ELRT PARTNERS



### REAL ESTATE STATUS

- For C0803, the tunnel portion of the alignment, 40 parcels are required for acquisition (11 full takes, 4 partial takes, 20 sub-surface easements/temporary construction easements, 3 sub-surface easements/building protection, and 2 building protections).
- For C0803, the at-grade portion of the alignment, 27 parcels are required for acquisition (17 full takes, 9 partial takes and 1 surface easement). Nine parcels have been identified for the proposed Ramona High School site reconfiguration.
- For C0802, 2 parcels are required (1 surface easement and 1 full take parcel).
- Sixty-nine parcels have been certified, 40 for C0803-Tunnel, 27 for C0803-At-Grade and 2 for C0802. Offers have been made to 66 property owners. A total of 56 parcels have been acquired (37 under C0803-Tunnel, 17 under C0803-At-Grade, and 2 under C0802). Real Estate is in negotiations with the other property owners.
- Third Party Administration has obtained two Encroachment Permits from Caltrans for C0803-Tunnel. All three (3) street closures have been obtained from the City of LA.

### REAL ESTATE ACQUISITION SCHEDULE SUMMARY

Number of Parcels	Required	Acquired	On Schedule	Behind Schedule	
				Number	Avg. Calendar Days
This Period	69	56	13	0	0
Last Period	69	56	13	0	0

### REAL ESTATE STATUS TO DATE BY CONTRACT ACQUISITION PHASE

CONTRACT NO.	Number of Parcels (A+B+C+D+E)	Agreements Signed (A)	Parcels in Condemnation (B)	Under Negotiation (C)	In Appraisal Process (D)	Inactive Parcels (E)	Parcels Available
C0803-Tunnel	40	37	0	3	0	0	37*
C0803-At-Grade	27	17	0	9	0	1**	17
C0802	2	2	0	0	0	0	2
TOTAL	69	56	0	12	0	1	56
LAST PERIOD	69	56	0	12	0	1	56

\* Includes 4 properties acquired under condemnation plus 33 escrows that were closed

\*\* Parcel ES-604 Ramona High School (portion to be acquired)



## **ENVIRONMENTAL STATUS**

- On June 22, 2005, human remains were discovered during excavation activities within the construction easement for the East Portal at the Los Angeles Crematorium site. Additional human remains were uncovered on June 23, 2005. All construction activity at the site was halted pending further research and determinations. The archeological team from Cogstone is evaluating and investigating the site for additional remains.
- Removed contaminated soil from Soto Station.

## **COMMUNITY RELATIONS STATUS**

- Held project briefings for the Review Advisory Committee, Executive Review Advisory Committee and Ramona Opportunities High School.
- Coordinated installation of extensometers.
- Provided support to 1<sup>st</sup> Annual Art Fest in the Arts District.
- Conducted project alignment tour for German public officials.

## **QUALITY ASSURANCE STATUS**

- Continued reviewing Welder Qualification Test Records to support decking operations as well as structural steel fabrications at the Ducommun Yard.
- Signet Test Lab continued with verification testing of concrete, soil compaction and nondestructive examination of deck beams. No adverse conditions have been identified to date.
- Conducted an audit of ESLRT's Document Control and Quality Control Inspection Documentation. Two minor findings were issued.
- Toured the Traylor-Shea-Ghazi tunnel liner precast facility in Palmdale, CA with the PMO's Quality representative.

## **SAFETY STATUS**

- Participated in weekly progress meetings with construction management and ELRTC personnel to discuss safety related issues and construction schedule.
- Participated in Contractor's Tool Box Safety meeting.
- Conducted All Hands Safety Meeting with CM, LAPD and ELRTC safety representatives.
- Monitored construction activities on a daily basis to ensure safety compliance.
- Participated in Third Party Utility Meeting to discuss safety related issues and construction schedule.
- Met with CAL/OSHA regarding C0800 tunneling activities.
- ELRTC reported one (1) restrictive duty incident for the month of June 2005. Project-to-date: 317,616 man-hours worked with zero (0) Lost Time and two (2) recordable incidents.

## **ART DEVELOPMENT STATUS**

- First/Boyle: Construction fence mural, 50% fabrication of artwork in artist's studio.
- First/Soto: Construction fence mural, 10% fabrication of artwork in artist's studio.
- First/Lorena: Construction fence mural, 10% fabrication of artwork in artist's studio.
- Mariachi Plaza Station: Held design development meeting with artist and contractor.
- Soto Station: Held concept design review meeting with artist.
- Little Tokyo Station: Finalized materials and finishes for platform artwork.
- Pico/Aliso Station: Artist presented concept design proposal to Contractor.
- East LA Civic Center Station: Held concept design meeting with artist.

### THIRD PARTY AGREEMENT STATUS

Third Party	Type of Agreement	Forecast Execution Date	Required Need Date	Status/ Comments
City of Los Angeles	Amendment	Completed	N/A	Executed December 2002.
Los Angeles County	Master	Completed	N/A	Executed April 2003.
Caltrans (All Projects)	Master	Completed	N/A	Executed July 2003.
Caltrans (101)	Design	Completed	N/A	Executed July 2003.
Caltrans (101)	Construction	Completed	N/A	Executed September 2003.
Caltrans (101)	Maintenance	12/08	Project Completion	The initial negotiation meeting was held on 1/9/03. LACMTA received a draft from Caltrans on 1/22/04. LACMTA reviewed and submitted the agreement to Caltrans on 2/10/04. Caltrans has yet to respond.
LADWP (Water/Power)	Amendment	7/05	*6/04	LACMTA Management, County Counsel, and LACMTA Board staff have participated in meetings with DWP to complete negotiations, since the "Deadline and Delay" clause is not acceptable to LADWP. Meeting with City Attorney's Office and County Supervisor's Office failed to reach an agreement. LACMTA Management to meet with LADWP Management.
So. Cal. Edison Co.	Amendment	7/05	*6/04	LACMTA is waiting for SCE to submit a re-draft of the proposed amendment. The last call placed with SCE Executive Legal Branch stated on 2/25/05 they have no intention of signing agreement.
The Gas Company	Amendment	Completed	N/A	Executed May 2005.
SBC	Amendment	Completed	N/A	Executed May 2005.
Adelphia Cable Company	Amendment	7/05	*6/04	LACMTA received a draft from Adelphia for review. LACMTA Management and County Counsel reviewed the amendment and returned the document to Adelphia with comments. Adelphia's Legal Department is reviewing the document.
California Water Service Company	Master	Completed	N/A	Executed May 2005.
L.A. County Sanitation Districts	N/A	N/A	N/A	In a letter dated 3/26/03, the Sanitation District stated that there is not a need for an agreement since there are no relocations related to their facilities. The Sanitation District will review submittals related to encasements of their facilities on Indiana Street.
MCI Worldcom	Amendment	Completed	N/A	Executed May 2005.
Metropolitan Water District	Amendment	Completed	N/A	Executed May 2003.

### THIRD PARTY AGREEMENT STATUS (Continued)

Third Party	Type of Agreement	Forecast Execution Date	Required Need Date	Status/ Comments
Verizon Wireless	Amendment	10/05	*6/04	The revised draft amendment was hand delivered to Verizon on 11/19/03 and an electronic copy was sent to them 2/19/04. Verizon did respond with comments, which were reflected in a revised agreement sent 4/05. Verizon legal is completing final review.
AT&T Local Services	Amendment	10/05	*6/04	LACMTA County Counsel reviewed the existing agreement and recommended revisions. A revised amendment was sent to AT&T. AT&T Legal is completing final review for execution.
GST	N/A			Facilities are not impacted by Eastside Construction
Exxon Mobil Oil Company	N/A			Facilities are not impacted by Eastside Construction
Pacific Pipeline Company	N/A			Facilities are not impacted by Eastside Construction
Kinder Morgan Pipeline Company	N/A			Facilities are not impacted by Eastside Construction
Tosco Refining Company	N/A			Facilities are not impacted by Eastside Construction
Equilon Pipeline Company	N/A			Facilities are not impacted by Eastside Construction
Level 3 Communications	N/A			Facilities are not impacted by Eastside Construction
Broadwing Communications	N/A			Facilities are not impacted by Eastside Construction
Eller Media	N/A			Facilities are not impacted by Eastside Construction

\* Work will be performed under the current MCA and will not delay ongoing work.

## CPUC CROSSING SUMMARY

Batch	Application Status	Initial Package Submittal to MTA	Field Diagnostic Meeting	Revised Drawings Due to MTA	Draft Write-up to MTA	Draft Package Sumbittal to PUC Local office and Agencies	Final Package Submittal to PUC	CPUC Final Approval
1	Complete	8/5/02	8/12/02	8/26/02	9/6/02	9/6/02	9/6/2002	Approved
2	Complete	10/4/02	10/11/02	10/25/02	11/6/02	11/22/02	11/22/2002	Approved
3	Complete	2/6/03	2/27/03	3/10/03	1/27/03	4/11/02	4/18/2003	Approved
4	Complete	12/14/02	1/15/03	1/29/03	11/13/02	5/5/03	6/18/2003	Approved
4A	Complete	1/24/03	1/29/03	3/14/03	2/7/03	9/5/03	1/23/2004	Approved
6	Complete	3/19/03	3/26/03	6/20/03	2/7/03	9/5/03	9/12/2003	Approved
7	Complete	12/11/02	12/18/02	3/31/03	2/7/03	5/5/03	7/25/2003	Approved
8	Complete	11/26/02	12/18/02	3/31/03	11/15/02	6/6/03	5/21/2004	Approved
9	Complete	1/20/03	1/29/03	3/31/03	11/22/02	8/29/03	9/12/2003	Approved
10	Complete	12/11/03	12/18/02	3/10/03	11/22/02	5/5/03	8/29/2003	Approved
11	Complete	2/13/03	2/27/03	4/18/03	12/6/02	6/6/03	8/29/2003	Approved
12	Complete	2/13/03	2/27/03	4/18/03	12/13/02	6/6/03	9/5/2003	Approved
13	Complete	2/6/03	2/20/03	4/18/03	2/21/03	6/6/03	9/1/2004	
14	Complete	1/8/03	1/15/03	3/14/03	11/12/02	8/29/03	10/30/2003	Approved
15	Complete	2/26/03	N/A	N/A	2/21/03	6/6/03	8/29/2003	Approved
16	Complete	2/26/03	N/A	N/A	2/28/03	6/6/03	8/29/2003	Approved
17	Complete	1/8/03	1/15/03	N/A	2/14/03	5/5/03	6/13/2003	Approved
18	Complete	1/8/03	1/15/03	3/20/03	2/14/03	5/5/03	6/13/2003	Approved
Agency Responsible		ELRTP	MTA	ELRP	ELRTP	MTA	MTA	

Batch No. 5 has been removed, as the Midway Yard will be utilized.

### SHADED AREAS REPRESENTS COMPLETION

36 applications approved. The final five applications are all grade separated. MTA is providing supplemental information agreed upon with CPUC.

Batch Descriptions			
1	1st / Alameda	10	3rd / Ford
2	Alameda / Temple		3rd / McDonnel
	1st / Hewitt		3rd / Arizona
	Ped Crossings @ 1st / Alameda Station	11	3rd / Mednik
3	1st / Vignes		3rd / Civic Center Drive
4	1st / Lorena		3rd / La Verne
4A	Indiana/1st	12	3rd / Drveways to Sherriff's Station
	Indiana/3rd		3rd / Wood / Via Corona / Pomona / Beverly
	Indiana Pedestrian Crossing	13	3rd / 60 Fwy WB Connector
6	1st / Mission		3rd / 60 Fwy over ELRT
	1st / Anderson		3rd / 710 Fwy SW Connector
	1st / Clarence		3rd / Bridge over 710 Fwy
	1st / Utah	14	3rd / 710 Fwy SE Connector
	1st/Gless Pedestrian Crossing		Union Station Service Road
7	3rd / Rowan	15	1st / Santa Fe
			1st / Myers
8	3rd / Gage	16	1st / MTA
	3rd / 60 Fwy WB Ramps		1st / BNSF
	3rd /Downey		1st / Union Pacific
9	3rd / Marianna	17	US 101 Fwy Overcrossing
	3rd / Eastern	18	Commercial Street Overcrossing

## CONTRACT C0802 STATUS

<b>Description: 101 Freeway Bridge Overcrossing</b> <b>Contractor: Brutoco Engineering &amp; Construction</b>		<b>Contract No. C0802</b> <b>Status as of: July 1, 2005</b>					
<b>Progress/Work Completed:</b>  * Commenced Drainage Systems 6 and 14. * Commenced CIDH piles repair for Bents 2, 4, 6, 7 and Abutment 1.          <b>Areas of Concern:</b>  None		<b>Major Activities (In Progress):</b>  * CIDH piles repair. * Roadway construction. * Drainage systems construction.          <b>Major Activities Next Period:</b>  * Roadway construction. * CIDH pile repair. * Construction of new freeway on and off ramps.					
<b>Schedule Summary:</b>  Date of Award: 09/07/04  Notice to Proceed: 09/22/04   Original Contract Duration: 700 CD Current Contract Duration: 729 CD Elapsed Time from NTP: 282 CD			Original Contract Dates	Time Extension	Current Contract	Forecast	Variance CDs
		Notice to Proceed	09/22/04	0	09/22/04	09/22/04	0
		Milestone 1 - Complete Abutment No. 10	06/26/06	29	07/25/06	07/25/06	0
		Milestone 2- Complete All Work	08/23/06	29	09/21/06	09/21/06	0
<b>Physical Percent Complete:</b>  Physical completion * as of this reporting period is: 32.55%   * Note: Physical completion assessment reflects work completed and invoice amount shown in Caltrans Monthly Progress/Expense Report		<b>Cost Summary:</b>  <b>\$ In millions</b>  1. Award Value: 6.42 2. Executed Modifications: 0.00 3. Approved Change Orders: 0.00 4. Current Contract Value (1+2+3): 6.42 5. Incurred Cost: 1.98					

## CONTRACT C0803 STATUS

<b>Description: Tunnel, Stations, Trackwork &amp; Systems</b> <b>Contractor: Eastside LRT Constructors</b>		<b>Contract No. C0803</b> <b>Status as of: July 1, 2005</b>																	
<b>Progress/Work Completed:</b>  * Completed Soto Station soldier pile installation. * Commenced East Portal Phase-II soldier pile installation. * Commenced Boyle Station Tie-Back installation. * Commenced East Portal demolition behind existing retaining wall. * Commenced precast tunnel liner segments manufacturing. * Submitted Atlantic Station schematic design. * Submitted Segment-5 initial civil design.  <b>Areas of Concern:</b>  None		<b>Major Activities (In Progress):</b>  * Boyle Station 2nd level structure excavation * Soto Station deck beam fabrication * Soto Station, East Portal, and 3rd Street utility relocations * East Portal Phase-II soldier pile installation * Permeation grouting at East Portal and Soto Station break-outs * Precast tunnel liner segments manufacturing * Test and shop acceptance of tunnel boring machines * 85% station design for Soto, Pico/Aliso, and Little Tokyo * Schematic designs for East LA Civic Center Station * Initial civil design for Segments 2B, 3B, 3C and 4 * Systems 65% design  <b>Major Activities Next Period:</b>  * Disassembly and packing of tunnel boring machines * Tunnel liner segments manufacturing * Soto Station deck beam fabrication * Boyle Station 2nd level structure excavation * East Portal existing retaining wall demolition and street widening * 85% design for Soto Stations * System 65% design																	
<b>Schedule Summary:</b>			Original Contract Dates	Time Extension	Current Contract	Forecast	Variance CDs												
Date of Award:	06/01/04	Notice to Proceed	07/01/04	0	07/01/04	07/01/04	0												
Notice to Proceed:	07/01/04	Milestone 1 - Contract Completion. Complete all systems integration testing and ready for MTA's pre-revenue operation testing.	12/31/08	5	01/05/09	01/05/09	0												
Original Contract Duration:	1795 CD	Milestone 3 - Complete Universal Fare System Equipment area.	04/30/08	5	05/05/08	05/05/08	0												
Current Contract Duration:	1795 CD	Milestone 5 - Vacate all staging areas and turn over to MTA.	05/30/09	0	05/30/09	05/30/09	0												
Elapsed Time from NTP:	366 CD	Milestone 6 - Complete design and construction of Option D work.	09/28/04	0	09/28/04	09/28/04	0												
Option D Contract duration	90 CD Complete																		
<b>Physical Percent Complete:</b>  Physical completion * as of this reporting period is: 11.64%  * Note: Physical completion assessment reflects work completed and invoice amount.		<b>Cost Summary:</b>  <table><tr><td colspan="2"><b>\$ In millions</b></td></tr><tr><td>1. Award Value:</td><td>600.45</td></tr><tr><td>2. Executed Modifications:</td><td>0.41</td></tr><tr><td>3. Approved Change Orders:</td><td>0.00</td></tr><tr><td>4. Current Contract Value (1+2+3):</td><td>600.86</td></tr><tr><td>5. Incurred Cost:</td><td>157.54</td></tr></table>						<b>\$ In millions</b>		1. Award Value:	600.45	2. Executed Modifications:	0.41	3. Approved Change Orders:	0.00	4. Current Contract Value (1+2+3):	600.86	5. Incurred Cost:	157.54
<b>\$ In millions</b>																			
1. Award Value:	600.45																		
2. Executed Modifications:	0.41																		
3. Approved Change Orders:	0.00																		
4. Current Contract Value (1+2+3):	600.86																		
5. Incurred Cost:	157.54																		

## CONTRACT P2550 STATUS

<b>Description: 2550 Rail Vehicle Program</b> <b>Contractor: AnsaldoBreda, Italy</b>		<b>Contract No. P2550</b> <b>Status as of: July 1, 2005</b>																																																																																									
<b>Progress/Work Completed:</b> 1.The first vehicle (701A & B) was air-shpiped to LAX in June and arrived at the Gold Line Yard on June 15 2. The second vehicle (702A & B) was shipped from Pistoia Italy by sea.. 3. The IPT conducts on-going weekly conference calls with project staff in Los Angeles, New York, Pistoia, and Naples Italy. 4. AnsaldoBreda engineers attended the final design completion meetings in Los Angeles in June 2005.  <b>Areas of Concern:</b> 1. Documentation submittals are close to complete. AnsaldoBreda has contracted with a consultant to "catch-up" on the submittals. 2. Milestone 5A - Approval of all design dwgs, Milestone 6A - Approval of Cab Mock-up, Milestone 7A and Milestone 8A - Appr.of Traction Motors Perf. Tests, are not yet considered as complete nor officially approved. These milestones are re-scheduled for review and approval in July 2005.		<b>Major Activities (In Progress):</b> 1. Contractor is in process of completing Milestone Nos. 5A, 6A, 7A, & 8A work. Approximately 98% of this work is completed. However, these four milestones are not yet considered as complete untill all documentation is submitted. 2. The contractor continues to work on Milestone Nos. 9A, 10A and 11A. 3. AnsaldoBreda Testing Engineers arrived in los Angeles and are preparing LRV 701 for Acceptance Testing.  <b>Major Activities Next Period:</b> 1. LRV 702 A & B will be trucked from Houston to LA. 2. The Contractor to provide Mobilization Schedule for the Pittsburg, CA plant. 3. Activities will progress toward the delivery and testing in Los Angeles the first two vehicles. 4. During this period the IPT will continue closely monitoring and expediting where necessary for all scheduled activities involved in constructing and supporting the 2550 rail vehicle. 5. Weekly teleconference meetings have reconvened to monitor technical design completion for the P2550 rail vehicles.																																																																																									
<b>Schedule Summary:</b>  Date of Award: 04/24/03 Notice to Proceed: 06/06/03 Original Contract Duration: 1460 CD Current Contract Duration: 1460 CD Elapsed Time from NTP: 758 CD  Option 1 & 2 Contract duration 1460 CD** ** after starting options 1 & 2  Note: MTA issued Modification No. 1 to AnsaldoBreda. Modification No. 1 is a zero-cost, miscellaneous administrative and technical clarification modification. MTA completed Modification No. 2 that reflects the recently granted California Board Of Equalization exemption for State Sales Tax on the Light Rail Vehicles.		<table><tr><td></td><td>Original Contract Dates</td><td>Time Extension</td><td>Current Contract</td><td>Forecast</td><td>Variance CDs</td></tr><tr><td>Notice to Proceed</td><td>06/06/03</td><td>0</td><td>6/06/03A</td><td>6/06/03A</td><td>0</td></tr><tr><td>Milestone 1A -</td><td>08/08/03</td><td>0</td><td>12/08/03</td><td>10/15/03A</td><td>0</td></tr><tr><td>Milestone 2A -</td><td>09/05/03</td><td>0</td><td>11/20/03</td><td>12/30/03A</td><td>0</td></tr><tr><td>Milestone 3A -</td><td>11/07/03</td><td>0</td><td>01/20/04</td><td>12/30/03A</td><td>0</td></tr><tr><td>Milestone 4A -</td><td>01/02/04</td><td>0</td><td>01/31/04</td><td>3/31/04A</td><td>0</td></tr><tr><td>Milestone 5A - Appr.dwgs, per Sect.1.13.1Tech Specs</td><td>05/07/04</td><td>0</td><td>05/07/04</td><td>08/31/05</td><td>481</td></tr><tr><td>Milestone 6A - Appr.of Operator Cab Mockup</td><td>06/04/04</td><td>0</td><td>06/04/04</td><td>08/31/05</td><td>453</td></tr><tr><td>Milestone 7A - Appr.Carbody stress analysis &amp; C.T. report</td><td>11/05/04</td><td>0</td><td>11/05/04</td><td>08/31/05</td><td>299</td></tr><tr><td>Milestone 8A - Appr.of Traction Motors Perf. Tests</td><td>11/05/04</td><td>0</td><td>11/05/04</td><td>08/31/05</td><td>299</td></tr><tr><td>Milestone 9A - Appr.of Final Op. Hazard Analysis</td><td>02/04/05</td><td>0</td><td>02/04/05</td><td>08/31/05</td><td>208</td></tr><tr><td>Milestone 10A - Deliver Draft Op.Maint.H. Repair Manuals</td><td>02/11/05</td><td>0</td><td>02/11/05</td><td>08/31/05</td><td>201</td></tr><tr><td>Milestone 11A - Appr.of Op. Training Program</td><td>04/08/05</td><td>0</td><td>04/08/05</td><td>08/31/05</td><td>145</td></tr><tr><td>Milestone 14A - Acceptance of two First Article Vehicles</td><td>12/02/05</td><td>0</td><td>12/02/05</td><td>12/02/05</td><td>0</td></tr></table>							Original Contract Dates	Time Extension	Current Contract	Forecast	Variance CDs	Notice to Proceed	06/06/03	0	6/06/03A	6/06/03A	0	Milestone 1A -	08/08/03	0	12/08/03	10/15/03A	0	Milestone 2A -	09/05/03	0	11/20/03	12/30/03A	0	Milestone 3A -	11/07/03	0	01/20/04	12/30/03A	0	Milestone 4A -	01/02/04	0	01/31/04	3/31/04A	0	Milestone 5A - Appr.dwgs, per Sect.1.13.1Tech Specs	05/07/04	0	05/07/04	08/31/05	481	Milestone 6A - Appr.of Operator Cab Mockup	06/04/04	0	06/04/04	08/31/05	453	Milestone 7A - Appr.Carbody stress analysis & C.T. report	11/05/04	0	11/05/04	08/31/05	299	Milestone 8A - Appr.of Traction Motors Perf. Tests	11/05/04	0	11/05/04	08/31/05	299	Milestone 9A - Appr.of Final Op. Hazard Analysis	02/04/05	0	02/04/05	08/31/05	208	Milestone 10A - Deliver Draft Op.Maint.H. Repair Manuals	02/11/05	0	02/11/05	08/31/05	201	Milestone 11A - Appr.of Op. Training Program	04/08/05	0	04/08/05	08/31/05	145	Milestone 14A - Acceptance of two First Article Vehicles	12/02/05	0	12/02/05	12/02/05	0
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Milestone 14A - Acceptance of two First Article Vehicles	12/02/05	0	12/02/05	12/02/05	0																																																																																						
<b>Physical Percent Complete:</b>  Physical completion * as of June 2005 is 49%  * Note: Physical completion assessment reflects work completed and invoiced plus current work in progress.		<b>Cost Summary: \$ In millions</b> 1. Award Value: Pasadena (Proj. No.: 800151) 126.99 Eastside Ext. (Proj. No.: 800088) 31.75 <b>Total Award Value 158.74</b> 2 Executed Modifications 0.00 3 Approved Change Orders: (None) 0.00 4 Current Contract Value (1 + 2 + 3): 158.74 5 Pending Changes: (None) 0.00 6 Incurred Cost: 36.64																																																																																									



## CONSTRUCTION PHOTOGRAPHS

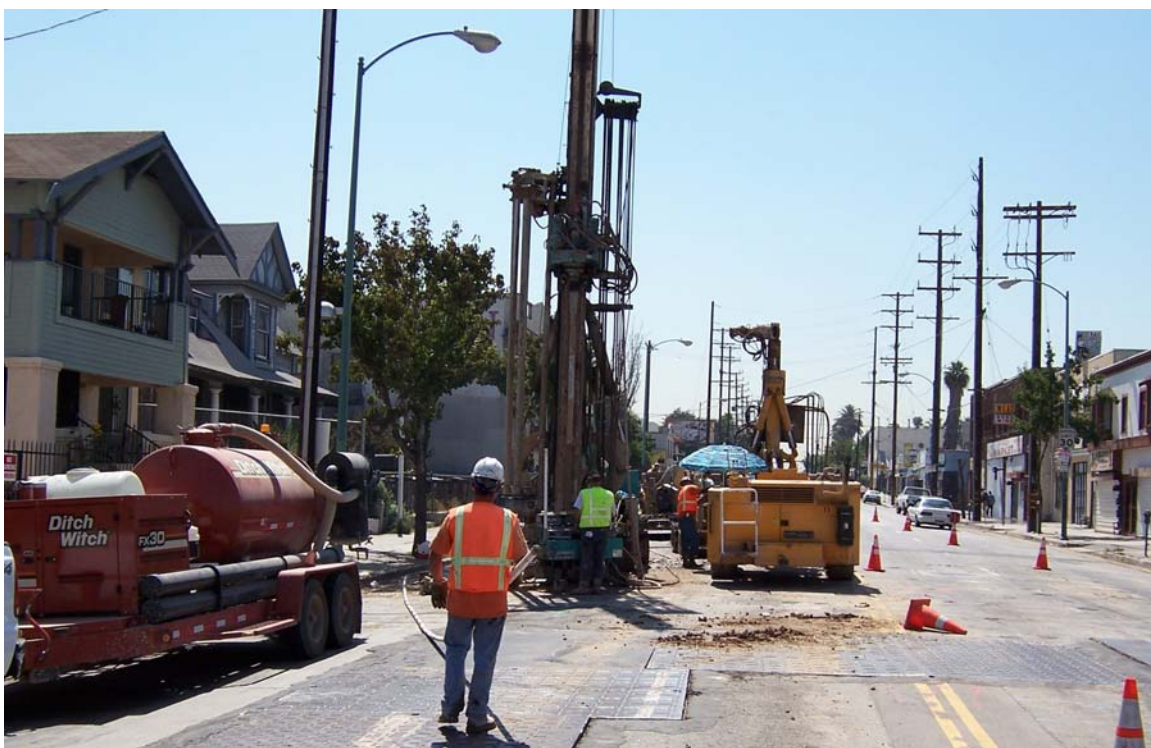


Boyle Heights/Mariachi Plaza Station Excavation.

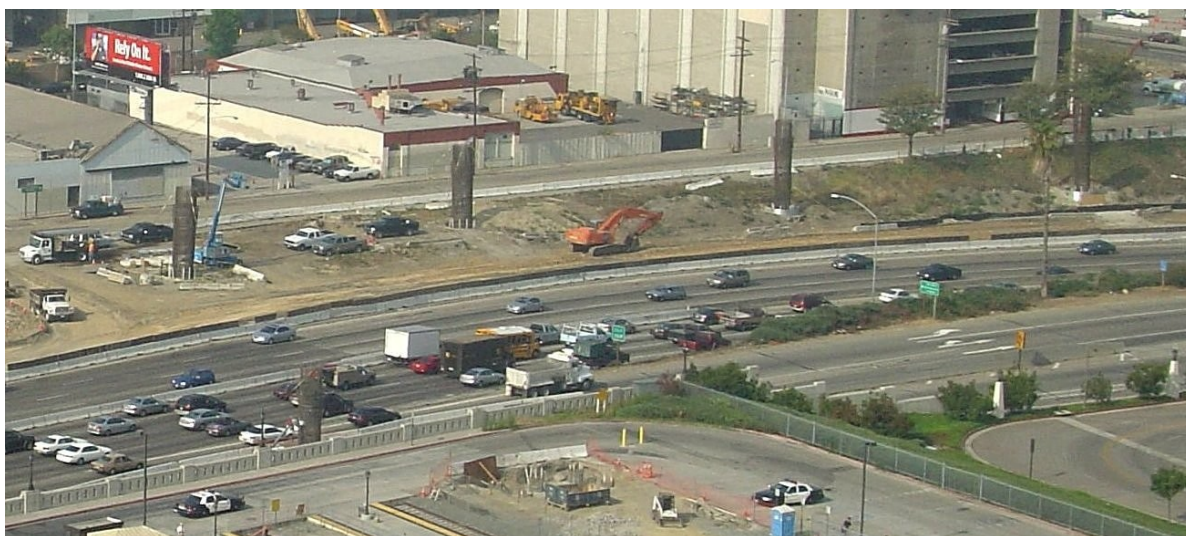


Widening of 1<sup>st</sup> Street at East Portal.

## CONSTRUCTION PHOTOGRAPHS



Grouting Activities at 1<sup>st</sup> and Soto Streets.



US 101 Freeway Bridge Overcrossing Column Rebar Cages.

## **APPENDIX**

### **COST AND BUDGET TERMINOLOGY**

**ESTIMATED PROJECT COSTS:** Estimated project costs are based upon the current project cost estimates that are produced during the engineering design phase.

**COMMITMENTS:** The total of actual contract awards, executed change orders or amendments, approved work orders of Master Cooperative Agreements, offers accepted for purchase of real estate, and other LACMTA actions that will result in specific expenditures at a future time.

**INCURRED COST:** The total value of work performed to date of services received, and acquired materials or properties.

**EXPENDITURES:** The total dollar amount of checks written by the LACMTA's Accounting department for contractor or consultant invoices, third party invoices, staff salaries, and closing payments for escrow accounts that is reported in the LACMTA's Financial Information System (FIS).

**CONSTRUCTION:** Includes guideways, yards and shops, systems equipment, stations, and vehicles.

**PROFESSIONAL SERVICES:** Includes general engineering, construction management services, consultant design support services during construction, legal counsel, and agency (LACMTA staff) costs.

**RIGHT-OF-WAY:** Includes real estate appraisals, purchase cost of parcels, easements, right-of-entry permits, escrow fees, and tenant relocation.

**UTILITY/AGENCY FORCE ACCOUNT:** Includes work by outside agencies and utilities in design coordination and review.

**CONTINGENCY:** A fund established at the beginning of a project to provide for anticipated but unknown additional costs that may arise during the course of the project.

**SPECIAL CONDITIONS:** Includes utilities relocation, environmental compliance and mitigation, master cooperative agreements, insurance program, artwork, systems integration testing and pre-revenue operations.



## APPENDIX

### LIST OF ACRONYMS

AFE	Authorization For Expenditure
ATC	Automatic Train Control
CADD	Computer Aided Drafting and Design
CALTRANS	California Department of Transportation
CD	Calendar Day
CM	Construction Manager
CMAC	Congestion Mitigation Air Quality
CN	Change Notice
CO	Change Order
CNPPA	Concurrent Non-FFGA Project Activities
CPM	Critical Path Method
CPUC	California Public Utilities Commission
CR	Camera Ready
CTC	California Transportation Commission
CUD	Contract Unit Description
DB	Design/Build
DBB	Design/Bid/Build
DD	Design Development
DOT	Department of Transportation
DWP	Department of Water and Power
EIR	Environmental Impact Report
EIS	Environmental Impact Statement
EPBM	Earth Pressure Balance Machine
ESP	Eastside LRT Partners
FAR	Federal Acquisition Regulation
FD	Final Design
FEIS	Final Environmental Impact Statement
FEIR	Final Environmental Impact Report
FFGA	Full Funding Grant Agreement
FIS	Financial Information System
FSEIR	Final Supplemental Environmental Impact Report
FSEIS	Final Supplemental Environmental Impact Statement
FTA	Federal Transit Administration
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
LACMTA	Los Angeles County Metropolitan Transportation Authority
LADOT	Los Angeles Department of Transportation

## **APPENDIX**

### **LIST OF ACRONYMS (Continued)**

LADPW	Los Angeles Department of Public Works
LADWP	Los Angeles Department of Water and Power
LAUSD	Los Angeles Unified School District
LNTF	Limited Notice To Proceed
LONP	Letter Of No Prejudice
LRT	Light Rail Transit
L RTP	Long Range Transportation Plan
LRV	Light Rail Vehicle
MIS	Major Investment Study
MPSR	Monthly Project Status Report
N/A	Not Applicable
NEPA	National Environmental Protection Act
NPDES	National Pollution Discharge Elimination System
NTE	Not to Exceed
NTP	Notice To Proceed
OCIP	Owner-Controlled Insurance Program
P3	Primavera Project Planner® (scheduling software)
PC	Project Control
PE	Preliminary Engineering
PEER	Permit Engineering Evaluation Report
PGL	Pasadena Gold Line
PIP	Project Implementation Plan
PM	Project Manager
PMA	Project Management Assistance
PMIP	Project Management Implementation Plan
PMOC	Project Management Oversight Consultant
PMP	Project Management Plan (manual)
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
RAC	Review Advisory Committee
RAG	Rail Activation Group
RFC	Request For Change
RFP	Request For Proposal
ROD	Record Of Decision
ROD	Revenue Operations Date
ROM	Rough Order of Magnitude

## **APPENDIX**

### **LIST OF ACRONYMS (Continued)**

ROW	Right-Of-Way
SCAQMD	Southern California Air Quality Management District
SCE	Southern California Edison
SCRRA	Southern California Regional Rail Authority
SHA	State Highway Account
SHPO	State Historic Preservation Office
SIT	System Integration Testing
SOV	Schedule Of Value
SOW	Statement Of Work
SP	Special Provision
STIP	State Transportation Improvement Program
STP	Surface Transportation Program
TBD	To Be Determined
TBM	Tunnel Boring Machine
TCRP	Traffic Congestion Relief Program
TPSS	Traction Power Substation
TRACS	Transit Automatic Control System
UFS	Universal Fare System
USDOT	U.S. Department Of Transportation
VE	Value Engineering
WBS	Work Breakdown Structure
WP	Work Package