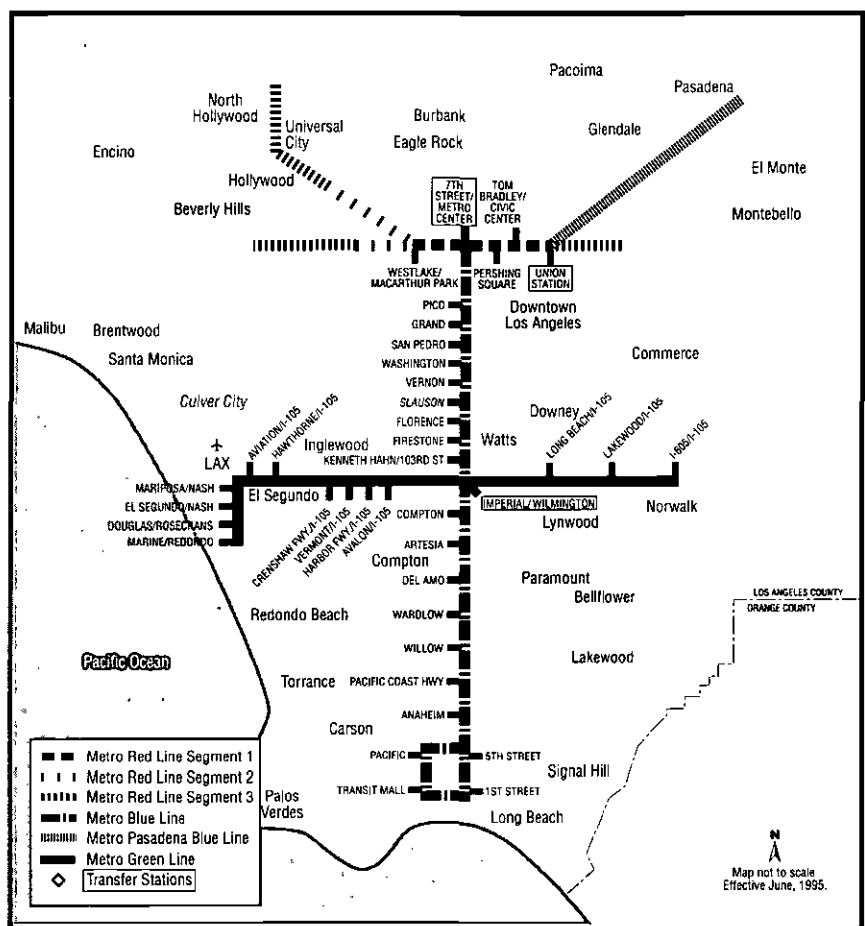


# MTA METRO CONSTRUCTION



## Executive Report Rail Program Status



## **RAIL PROGRAM STATUS SUMMARY**

**THE LOS ANGELES COUNTY  
METROPOLITAN TRANSPORTATION AUTHORITY  
METRO CONSTRUCTION DIVISION**

**SEPTEMBER 1995**

# **RAIL PROGRAM SUMMARY**

**RAIL PROGRAM STATUS SUMMARY**

<b>Metro Pasadena Blue Line</b>				
<b>Cost Status</b>	(\$000)		<b>Project Progress</b>	
Original Budget	841,000		Design	
Expended to Date	137,103 *		Actual:	79.6%
Current Budget	841,000		Construction	
			Actual:	3.1%
<b>Schedule Status</b>				
Revenue Operations Date:				
Original	November 1997			
Revised	June 2002			

<b>Metro Green Line (Budget and Forecast excludes North Coast Segment)</b>				
<b>Cost Status</b>	(\$000)		<b>Project Progress</b>	
Original Budget	671,000		Design	
Expended to Date	629,000 *		Actual:	100%
Current Budget	717,802		Construction	
			Actual:	98.3%
<b>Schedule Status:</b>				
Revenue Operations Date:				
Original	October 1994			
Current ROD	August 12, 1995			

<b>Metro Red Line Segment 1</b>				
<b>Cost Status</b>	(\$000)		<b>Project Progress</b>	
Original Budget	1,249,900		Design	
Expended to Date	1,421,000 *		Actual:	100%
Current Budget	1,450,019		Construction	
			Actual:	100%
<b>Schedule Status</b>				
Revenue Operations Date:				
Original	April 1992			
Current ROD	January 1993			

<b>Metro Red Line Segment 2</b>				
<b>Cost Status</b>	(\$000)		<b>Project Progress</b>	
Original Budget	1,446,432		Design	
Expended to Date	1,004,332 *		Actual:	99.1%
Current Budget	1,517,657		Construction	
			Actual:	63%
<b>Schedule Status: Revenue Operations Date:</b>				
	Wilshire	Vermont/Hlywd		
Original	Jul '96	Dec '98 **		
Forecast	May '96	Feb '99		
	** Revised to reflect date in Full Funding Grant Agreement.			

<b>Metro Red Line Segment 3 - North Hollywood Extension</b>				
<b>Cost Status</b>	(\$000)		<b>Project Progress</b>	
Original Budget	1,310,822		Design	
Expended to Date	245,049 *		Actual:	88%
Current Budget	1,313,848		Construction	
			Actual:	12.6%
<b>Schedule Status</b>				
Revenue Operations Date:				
Original	May 2000			
Forecast	September 2000			
	* Expenditure data through August 1995			

## RAIL PROGRAM STATUS SUMMARY

<b>Metro Red Line Segment 3 - Mid City Extension</b>			
<b>Cost Status</b>	(\$000)	<b>Project Progress</b>	
Original Budget	490,663	Design	
Expended to Date	10,098 *	Actual:	31%
Current Budget	490,663	Construction	
<b>Schedule Status:</b>		Actual:	0%
Revenue Operations Date:			
Original	TBD		
Forecast	TBD		
<b>Metro Red Line Segment 3 - East Side Extension</b>			
<b>Cost Status</b>	(\$000)	<b>Project Progress</b>	
Original Budget	979,601	Final Design	
Expended to Date	11,831 *	Actual:	3.2%
Current Budget	979,601	Construction	
<b>Schedule Status:</b>		Actual:	0%
Revenue Operations Date:			
Original	November 2002		
Forecast	July 2003		
<b>Vehicle Acquisition Project</b>			
<b>Cost Status</b>	(\$000)	<b>Project Progress</b>	
Original Budget	257,597	Design	
Expended to Date	58,758 *	Actual:	6% **
Current Budget	257,597	Construction	
<b>Schedule Status:</b>		Actual:	6% **
Delivery of Final Cars:			
Original	November 1997	** Based on Milestone Payments	
Forecast	April 1999		

\* Expenditure data through August 1995

METROPOLITAN TRANSPORTATION AUTHORITY  
PROJECT COST REPORT - TOTAL RAIL PROGRAM  
SUMMARY BY COST ELEMENT  
(IN THOUSANDS)

STATUS DATE: 09/29/95

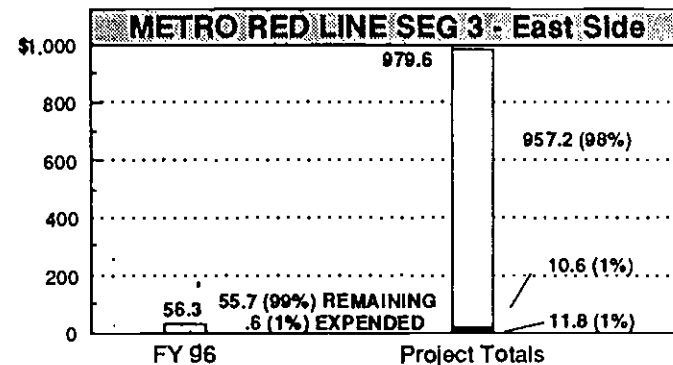
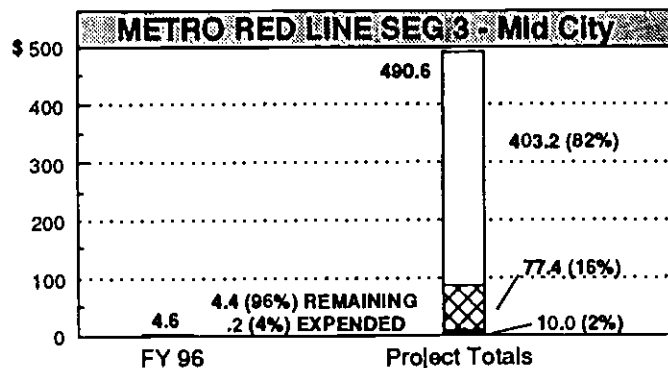
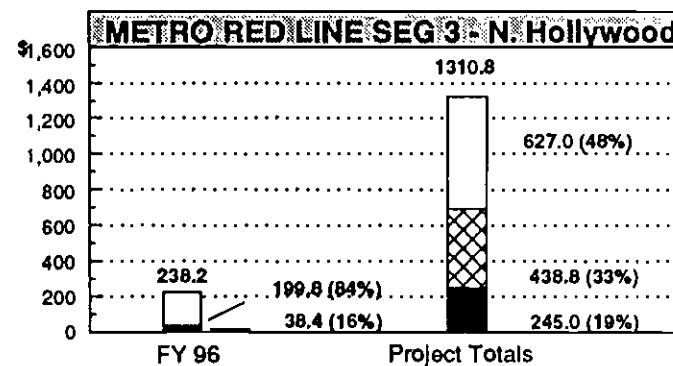
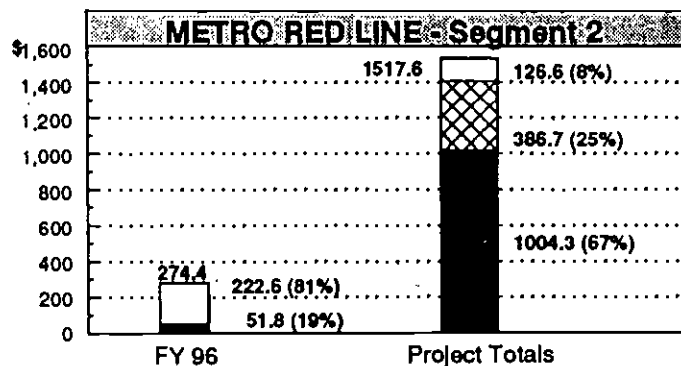
## PROJECT: TOTAL RAIL PROGRAM

ELEMENT DESCRIPTION	BUDGET		COMMITMENTS		INCURRED COST		EXPENDITURES		CURRENT FORECAST	VARIANCE (9-2)
	ORIGINAL (1)	CURRENT (2)	PERIOD (3)	TO DATE (4)	PERIOD (5)	TO DATE (6)	PERIOD (7)	TO DATE (8)		
T CONSTRUCTION	5,153,507	5,242,906	2,402	3,509,528	21,008	1,730,974	16,817	2,476,497	5,033,173	124,405
S PROFESSIONAL SERVICES	1,685,529	1,985,788	13,709	1,456,036	6,850	1,283,687	6,880	1,280,328	1,981,492	93,835
R REAL ESTATE	480,002	549,058	4,528	387,920	641	384,966	646	384,911	501,330	5,574
F UTILITY/AGENCY FORCE ACCOUNTS	146,279	161,028	69	128,176	1,514	106,297	1,514	105,728	154,638	2,130
D SPECIAL PROGRAMS	11,043	20,864	0	5,647	0	4,537	0	4,573	15,866	(4,997)
C CONTINGENCY	560,117	448,142	0	0	0	0	0	0	352,390	(95,751)
A PROJECT REVENUE	(18,115)	(36,395)	(43)	(1,581)	(31)	(7,175)	(31)	(8,641)	(31,874)	4,711
PROJECT GRAND TOTAL	8,018,362	8,371,391	20,665	5,483,726	29,882	3,503,286	25,826	4,243,396	8,007,015	129,907

NEW REQUIREMENTS DESCRIPTION	BUDGET		COMMITMENTS		INCURRED COST		EXPENDITURES		CURRENT FORECAST	VARIANCE (9-2)
	ORIGINAL (1)	CURRENT (2)	PERIOD (3)	TO DATE (4)	PERIOD (5)	TO DATE (6)	PERIOD (7)	TO DATE (8)		
T CONSTRUCTION	0	50,876	115	48,912	38	14,335	840	18,545	61,533	10,657
S PROFESSIONAL SERVICES	0	19,834	37	17,859	190	9,982	190	9,984	19,938	303
R REAL ESTATE	0	0	0	1	6	8	6	8	0	0
F UTILITY/AGENCY FORCE ACCOUNTS	0	0	0	0	0	35	0	35	0	0
D SPECIAL PROGRAMS	0	20	0	20	0	20	0	20	20	0
C CONTINGENCY	0	3,720	0	0	0	0	0	0	2,682	(1,038)
A PROJECT REVENUE	0	0	0	0	0	0	0	0	0	0
NEW REQ. SUBTOTAL	0	74,250	152	66,792	234	24,380	1,036	28,592	84,173	9,922
PROJECT GRAND TOTAL	8,018,362	8,445,641	20,817	5,550,518	30,216	3,527,666	26,862	4,271,988	8,091,188	139,829

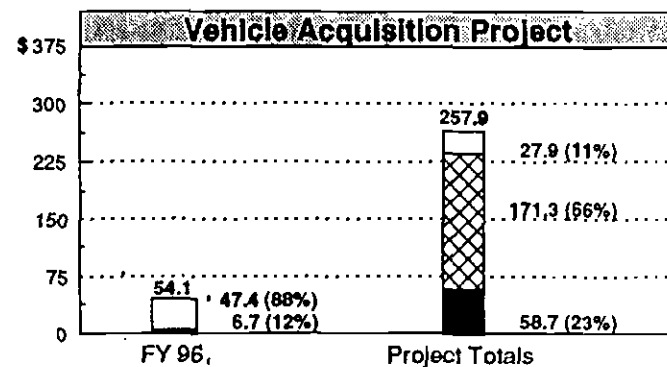
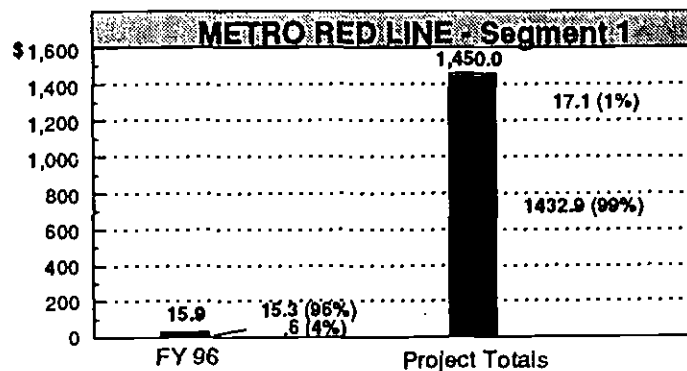
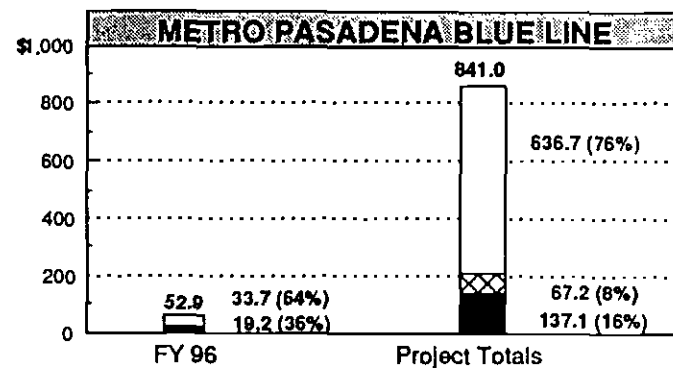
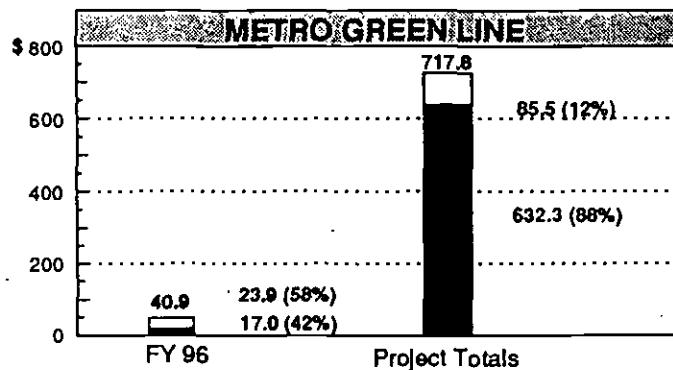
This report includes total project costs for the Metro Blue Line of \$877,271.

**BUDGET STATUS - September 29, 1995**  
(In \$ Millions)

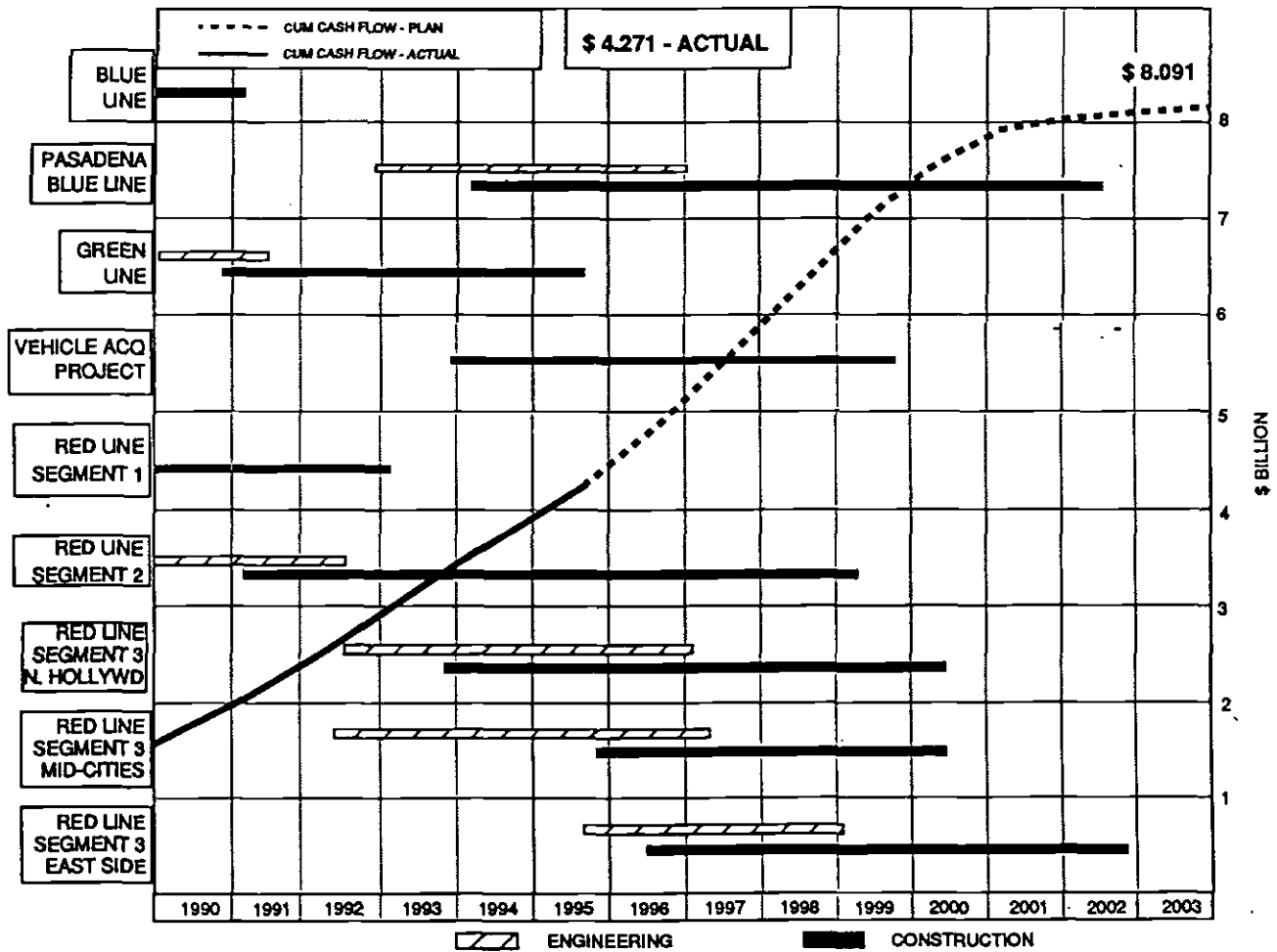


Actual Spent
  Encumbered
  Remaining Budget

**BUDGET STATUS - September 29, 1995**  
(In \$ Millions)







METROPOLITAN TRANSPORTATION AUTHORITY  
FUNDING SOURCES  
(IN MILLIONS)

SEPTEMBER 1995

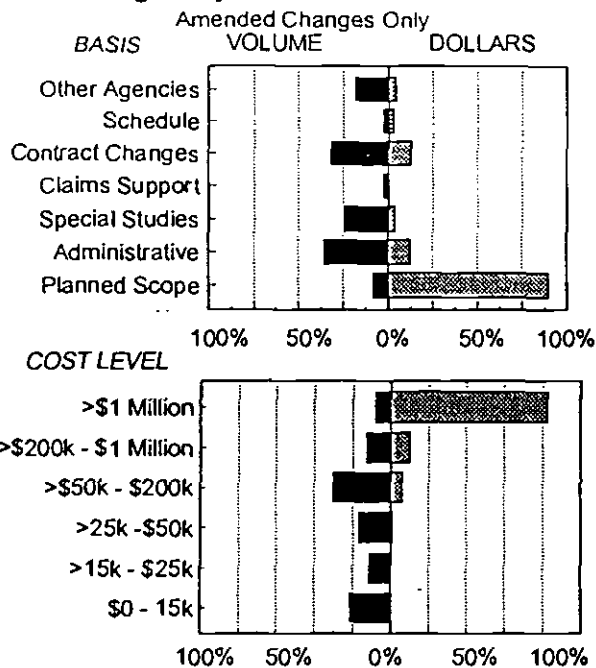
	METRO BLUE LINE*		PASADENA BLUE LINE		METRO GREEN LINE		METRO RED SEGMENT 1**		METRO RED SEGMENT 2		METRO RED LINE SEG 3 - NH		METRO RED LINE SEG 3 - MC		METRO RED LINE SEG 3 - ES		VEHICLE ACQUISITION PROJECT		TOTAL PROGRAM	
	\$	%	\$	%	\$	%	\$	%	\$	%	\$	%	\$	%	\$	%	\$	%	\$	%
FTA-SECTION 3							605.3	42	667.0	43	681.0	52	242.5	49	492.9	51			2688.7	32
FTA - OTHER																	11.9	5	11.9	0
ISTEA - FED SURFACE TRANSIT PROGRAM									52.1	3	69.1	5	40.0	8	25.0	2	84.0	33	270.2	3
FED-ISTEA STP/CMAQ (REGIONAL)									2.5	1	39.9	3	40.4	8	86.1	9	6.1	2	175.0	2
FTA-SECTION 9							90.6	6											90.6	1
STATE			337.8	40	106.4	15	210.3	15	133.0	9	45.9	3			15.0	2	33.6	13	882.0	10
STATE TSM MATCH											3.2	1	7.2	2	11.1	1			21.5	0
SB 1995 TRUST FUND											75.0	6							75.0	1
PROPOSITION A	877.2	100			205.1	29	179.5	12	440.3	29									1702.1	20
PROP A/C (TRANSIT ENHANCEMENT)									62.7	4									62.7	1
PROPOSITION C			503.2	60	400.3	56					195.5	15	151.6	31	349.1	36	122.0	47	1721.7	20
PROP C (AMERICAN DISABILITIES ACT)					6.0	1			6.0	1									12.0	0
CITY OF LOS ANGELES							34.0	2	96.0	6	190.7	14	9.0	2	0.3	0			330.0	4
BENEFIT ASSESSMENT							130.3	9	58.0	4	13.5	1							201.8	2
COST OVERRUN ACCOUNT							200.1	14											200.1	2
TOTAL	877.2	100	841.0	100	717.8	100	1450.1	100	1517.6	100	1313.8	100	490.7	100	979.5	100	257.6	100	8445.3	100

\* CONSISTS OF LIGHT RAIL LINE (\$847) AND MC-5 WORK (\$30).

\*\* LRT PORTION INCLUDED IN BLUE LINE FORECAST.

Note: Data reflects Current Budget

### Professional Service Contracts Changes by Basis and Cost Level



### CHANGE BASIS ANALYSIS

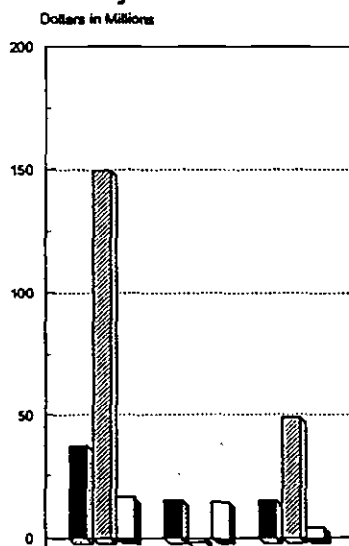
Changes due to Outside Agencies account for approximately 20% or 104 of the 531 Consultant Change Requests overall.

### CHANGE COST LEVEL ANALYSIS

As shown on the Cost Level Analysis chart opposite, the MTA Board reviews 91% of all change costs associated with the Rail Project or \$268M of a total change cost of \$290M. This equates to 20% of the total change volume or 109 of 531 total changes.

The MTA Project team reviews all CCR's yet only has authority to sign for a small portion (7%) of the overall cost.

### Professional Services Contracts Change Cost by Consultant



\$'s in Millions	EMC	CM	OTHER
Amended	37.7	15.5	15.3
Planned Scope Additions	149.8	(1.8)	49.0
In Process	16.5	14.4	4.2
Total \$ in Changes	204.0	28.1	68.5

### PROFESSIONAL SERVICES CHANGE ANALYSIS

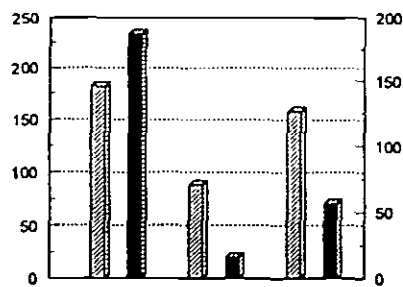
No contract amendments approved this period.

DATA SOURCE:  
CCS: CCR REPORTS

Planned Additional Scope = Services which were anticipated or identified at the inception of the CWO but not included in the initial award. Staff will incrementally approve these known scope requirements and corresponding funds as a method to closely manage the consultant's technical and cost performance.

### Professional Service Contracts Amendment History

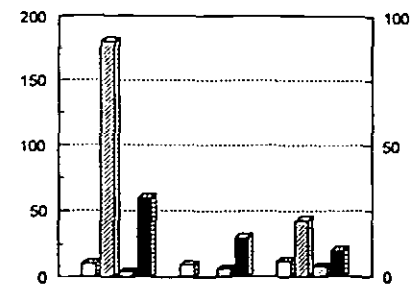
Period to Total Comparison  
Volume



	EMC	PD	OTHER
# This Period <input type="checkbox"/>	0	0	0
# Previous <input checked="" type="checkbox"/>	182	88	158
\$ This Period <input checked="" type="checkbox"/>	0	0	0
\$ Previous <input checked="" type="checkbox"/>	187	16	57

### All - Professional Service Contracts Pending Consultant Changes

Period to Total Comparison  
Volume



	EMC	PD	OTHER
# This Period <input type="checkbox"/>	10	9	12
# Previous <input checked="" type="checkbox"/>	180	0	43
\$ This Period <input checked="" type="checkbox"/>	2	3	4
\$ Previous <input checked="" type="checkbox"/>	30	15	10

## CONSULTANT CHANGE REQUEST ANALYSIS

12 Advanced Work Authorization's (AWA) were assigned this period with a cumulative not-to-exceed obligation of \$480K.

No contract amendments approved this period.

Changes due to other agencies are currently being reviewed for potential cost recovery. The cost recovery potential estimate will be provided when available.

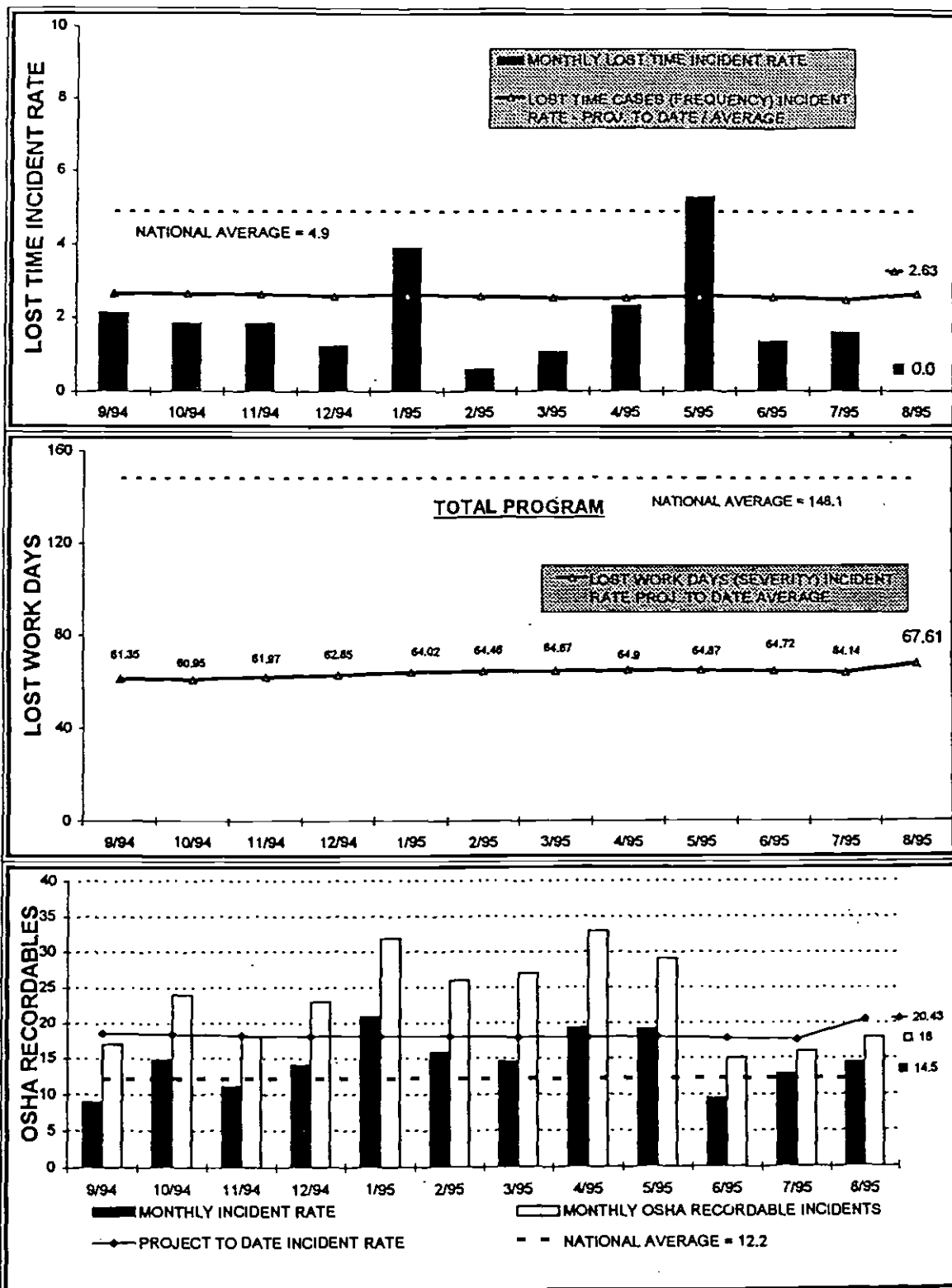
12 new changes were submitted this period of which 5 are estimated at over \$200,000:  
R05-E0070-329.01 - (C6420) (ECR #18) Concept Plans Along Marmion Way, Avenue 26 and Avenue 34; R81-03369-309.00 - Area 2 Roving civil Inspectors; R81-E0070-80.01 - Additional Work on Presentation Material for Segment-2; R82-E0070-113.03 - C0311 - Reduce Mid-Line Vent Shaft Size; and R82-E0070-336.02 - C0311 - Redesign Mid-Line Vent Structure

MTA rejected/cancelled 6 CCR's this period with a cumulative ROM value of \$1.7M.

Cost Performance Relative to Corporate Goals  
(IN THOUSANDS)

	METRO BLUE LINE		METRO PASADENA BLUE LINE		METRO GREEN LINE		METRO RED LINE SEGMENT 1		METRO RED LINE SEGMENT 2		METRO RED LINE SEGMENT 3 NH		METRO RED LINE SEGMENT 3 MC		METRO RED LINE SEGMENT 3 ES		VEHICLE ACQUISITION PROJECT		TOTAL PROGRAM		CORP GOAL
	DOLLARS	PERCENT	DOLLARS	PERCENT	DOLLARS	PERCENT	DOLLARS	PERCENT	DOLLARS	PERCENT	DOLLARS	PERCENT	DOLLARS	PERCENT	DOLLARS	PERCENT	DOLLARS	PERCENT	DOLLARS	PERCENT	
CONSTRUCTION	657,487	74.86%	600,830	60.22%	477,236	66.48%	612,270	56.02%	1,049,335	80.13%	627,979	62.56%	0	0	624,098	63.71%	203,360	89.46%	2,996,328	65.67%	
REAL ESTATE	55,862	6.34%	77,721	7.78%	26,047	3.63%	140,000	9.66%	86,982	5.86%	66,416	6.53%	0	0	26,570	2.71%	0	0.00%	310,821	6.81%	
PROFESSIONAL SERVICES:																					
ENGINEERING/DES	89,587	7.93%	93,788	9.40%	83,296	11.60%	221,859	15.29%	154,670	10.20%	90,711	6.85%	0	0	93,748	9.57%	1,700	0.75%	529,412	11.60%	
CONSTR MGMT.	91,642	10.45%	77,171	7.73%	78,213	10.90%	118,429	8.03%	140,657	9.27%	108,207	8.18%	0	0	79,826	8.15%	0	0.00%	426,941	9.36%	
STAFF	17,855	2.01%	51,680	5.18%	24,179	3.37%	95,556	6.59%	53,221	3.51%	57,676	4.36%	0	0	36,586	3.73%	4,531	1.99%	190,613	4.18%	4%
OTHER	14,222	1.62%	22,716	2.28%	17,337	2.42%	32,671	2.25%	20,034	1.32%	38,461	2.75%	0	0	18,630	1.70%	10,742	4.72%	84,264	1.85%	
SUBTOTAL	193,108	22.01%	245,313	24.59%	203,025	28.28%	466,317	32.16%	368,782	24.30%	293,055	22.14%	0	0	226,792	23.15%	16,973	7.47%	1,231,230	26.98%	20%
CONTINGENCY	963	0.11%	73,885	7.41%	12,757	1.78%	31,432	2.17%	11,488	0.76%	116,110	8.77%	0	0	102,140	10.43%	6,998	3.08%	56,620	1.24%	
PROJECT REVENUE	(29,877)	-3.41%	(33)	-0.00%	(1,263)	-0.18%	0	0.00%	(701)	-0.05%	0	0.00%	0	0	0	0.00%	0	0.00%	(31,841)	-0.70%	
GRAND TOTAL	677,271	100.00%	997,725	100.00%	717,802	100.00%	1,450,019	100.00%	1,517,866	100.00%	1,323,562	100.00%	0	0	979,801	100.00%	227,351	100.00%	4,562,958	100.00%	

\*METRO RED LINE SEGMENT 3 MC FORECAST NOT INCLUDED.  
NOTE: Data reflects Current Forecast.

TOTAL METRO  
SAFETY SUMMARYPrepared by:  
MASS TRANSIT GROUP

# METRO GREEN LINE

## EXECUTIVE SUMMARY

**METRO GREEN LINE**  
**Summary Status Report**  
**Period ending - September 29, 1995**



**MILESTONES ACHIEVED**

1. H1100 complete F.A.C.I. testing Hawthorne Yard.
2. H1100 start integrated testing Hawthorne Yard.

**NEXT MONTH LOOK AHEAD**

1. H1100 complete integrated testing in Hawthorne yard.
2. Start-up to finalize SCADA Loading integrated test.

**BUDGET**

	<u>Amount</u> <u>(in \$ mil)</u>	<u>Change from</u> <u>Last Month</u> <u>(in \$ mil)</u>
Original Budget	671.0	None
Approved Budget	717.8	None
Current Forecast	717.8	None
Expenditures	629.0	8.0

**BUDGET ANALYSIS**

- The project is expected to complete \$10-\$15 million under budget. Capital Planning and Grants Management investigating scope increases to avoid partial loss of state funding.
- Extended duration of project (H1100) could impact use of remaining budget.
- MTA Board has allocated \$5.9 million of project under-run to the Del Norte Station.



# METRO GREEN LINE Summary Status Report

Period ending - September 29, 1995

## SCHEDULE

		Change from Last Month
Current ROD	08/12/95 A	-0-
Design Progress	100.0%	None
Construct. Progress*	98.31%	*
Critical Path Float	0 Days	-0-

\*No update information.

## SCHEDULE ANALYSIS

- H1100 interface dates with the P2000 contractor have slipped due to P2000 schedule slippage.
- H1100 milestone dates are being impacted by P2000 schedule slip.
- Revenue service began 8/12/95.
- Integrated testing is currently at 98% complete.

## SAFETY

		Change from Last Month
Recordable Injury Rate		
National Average	12.2	
Project Rate (Cum.)	9.6	N/A
Lost Time Rate (Frequency)		
National Average	4.9	
Project Rate (Cum.)	1.9	N/A
Lost Work Days (Severity)		
National Average	148.1-no longer kept nationally	
Project Rate (Cum.)	50.9	N/A

## SAFETY ANALYSIS

- No update for Safety. Project is completed.

**METRO GREEN LINE**  
**Summary Status Report**  
**Period ending - September 29, 1995**



**COMMUNITY ISSUES**

- Noise at Holly Glen. MTA Construction is studying the effects of adjusting the rail fasteners or constructing a sound barrier.

**ELECTED OFFICIALS INVOLVEMENT**

- Supervisor Yvonne Burke

**QA / TQM ISSUES**

- P2020 Vehicle Gearbox issues.
  - No failures since September 1995.
  - All gearboxes are being recycled.
  - Remaining for recycle (12) of (60) total.
  - Recycle to be completed November 15, 1995.
  - Maximum miles on a recycled gearbox 38,595 miles (car #159).

**CCR BACKLOG STATUS**

- 8 CCR's pending approval at an estimated value of \$2,100,000.
- 8 CCR's have been approved for an estimated value of \$13,645,451.99.

**METRO GREEN LINE**  
**Summary Status Report**  
**Period ending - September 29, 1995**



**CONTRACT CLOSEOUT STATUS**

- 8 contracts open - Contractor still performing work.
- 9 contracts completed - closeout in process.
- 1 contract terminated - termination claim in process.
- 5 contracts closed - all work completed.

METRO PASADENA BLUE LINE

EXECUTIVE SUMMARY

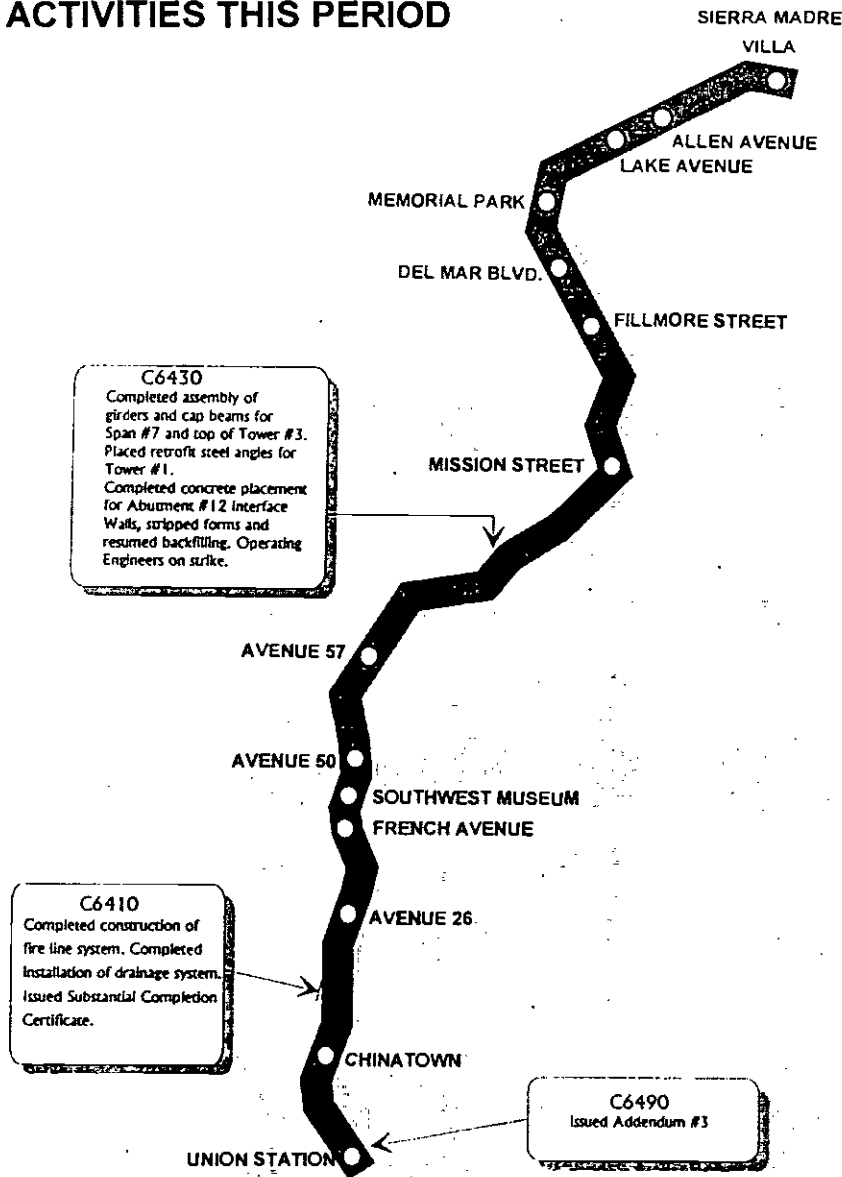
# METRO PASADENA BLUE LINE

## Summary Status Report

Period ending - September 29, 1995



### MAJOR ACTIVITIES THIS PERIOD



### SYSTEMWIDE ACCOMPLISHMENTS

C6435: Bridge Retrofit and Reconstruction of Concrete and Steel Bridges: Trackwork removal in progress on 7 concrete bridges. Set-up field offices for Contractor and CM.

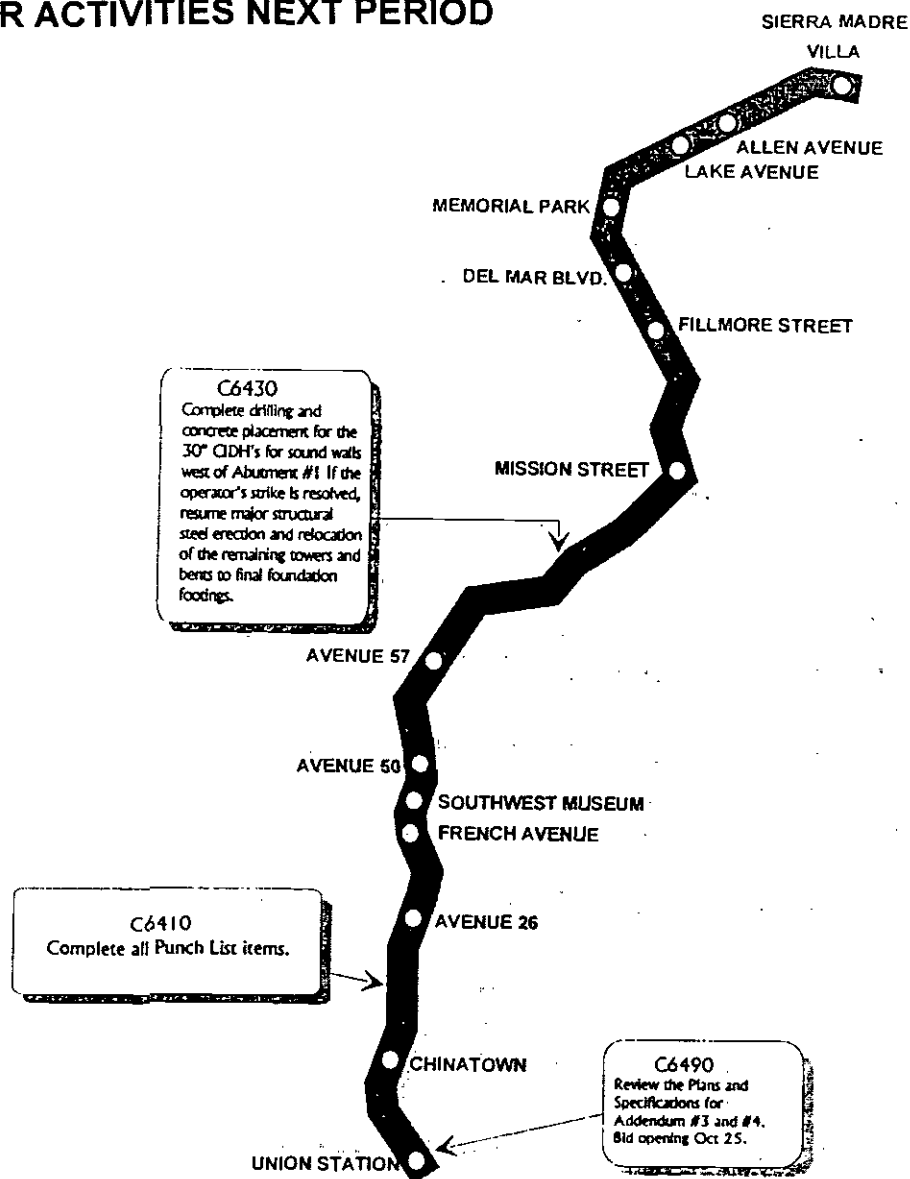
Operation Peer Review Panel workshop was held on September 18, 19 & 20 1995 to discuss cost reduction items. In addition Operations and Construction Staff are forming a task force to review practical Cost Reduction Items.

Staff is preparing Amendment No. 5 for CWO 0021 and Amendment No. 2 for CWO 0025.

**METRO PASADENA BLUE LINE**  
**Summary Status Report**  
**Period ending - September 29, 1995**



**MAJOR ACTIVITIES NEXT PERIOD**



**SYSTEMWIDE ACCOMPLISHMENTS**

**C6435: Bridge Retrofit and Reconstruction of Concrete and Steel Bridges:**  
Prepare bridge deck surfaces on several concrete bridges.  
Demolish existing ballast restrainers and overhangs on several concrete bridges.

# METRO PASADENA BLUE LINE

## Summary Status Report

Period ending - September 29, 1995



### MILESTONES ACHIEVED

1. Contract C6410 (L.A. River Bridge) - Completed all contract work.
2. Contract C6430 (Arroyo Seco Bridge) - Continued installation of piles and bents 3 & 4 until strike halted work on 9/12/95.
3. Contract C6435 (Retrofit Bridges) - Completed mobilization and field office start-up.
4. Contract C6490 (Union Station Platform) - Issued addendum No. 3 on 9/29/95.

### NEXT MONTH LOOK AHEAD

1. Contract C6410 (L.A. River Bridge) - Contract completed. Punch-list items only.
2. Contract C6430 (Arroyo Seco Bridge) - MTC and Kiewit Pacific are discussing alternate plans to mitigate the ongoing schedule impacts due to the operators strike.
3. Contract C6435 (Retrofit Bridges) - Start rail removal on selected bridges and begin retrofit of Hill Avenue bridge.
4. Contract C6490 (Union Station Platform) - Issue addendum No. 4.

### BUDGET

	Amount (in \$ mil)	Change from Last Month (in \$ mil)
Original Budget	841.0	None
Approved Budget	841.0	0.0
Current Forecast	997.7	None
Expenditures	137.1	+2.7

### BUDGET ANALYSIS

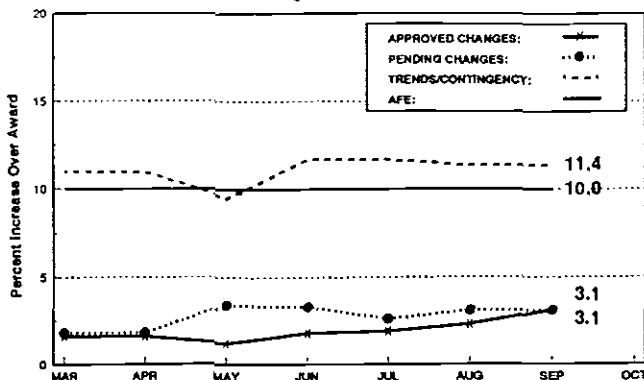
- MTA 20-year long range plan calls for Pasadena Blue Line to open in June 2002 at a cost of \$997.7 million.
- Value Engineering and Cost Containment studies have identified potential savings. Upon MTA Board approval, a new budget, scope and schedule will be adopted.

# METRO PASADENA BLUE LINE Summary Status Report

Period ending - September 29, 1995

## CONTRACT CHANGES

Construction/Procurement Contracts  
Contract Changes  
as % of Original Contract Award



## CONTRACT CHANGE ANALYSIS

- Based on forecast information for the period ending September 29, 1995 (which includes CCS information through September 15, 1995), the forecast construction cost for the Pasadena Blue Line Project exceeds the AFE values. Although the L.A. River Bridge Contract (C6410) is forecasting an overall contract cost less than the approved AFE value, other construction contracts are forecasting costs equal to or slightly above their respective AFE values. For the Arroyo Seco Bridge Reconstruction Contract (C6430) forecast cost has risen about 5% above the AFE value due primarily to quantity overruns experienced to date. The Precast Concrete Ties Contract (P2100) is forecasting cost to be about 10% greater than the AFE value because of possible impacts due to continued delay to the delivery schedule.
- Trends showing forecasts which exceed the AFE may be somewhat tempered as the C6430 contract progresses and some anticipated quantity underruns occur. However, it should be noted that labor actions taking place against the construction contractor may potentially have some negative impact to the contract schedule and cost. Additionally, it should be noted that efforts are underway which could reduce the scope of Contract C6435 as part of the on-going value engineering/cost containment studies. The Contract P2100 forecast could be reduced by minimizing impacts from delays to the delivery schedule.

## SCHEDULE

Change from  
Last Month

Current ROD	Jun 2002	
Design Progress	79.1%	+0.2%
Construct. Progress	3.0%	0
Critical Path Float	0	0

## SCHEDULE ANALYSIS

- Design is on hold pending resolution of EMC change order and Value Engineering Review.
- The project critical path goes through C6460, C6550, H0090, H0060 and pre-revenue operations.
- Contracts C6410, C6435 and P2100 continue to proceed on schedule.
- Contract C6430 is experiencing delay due to Equipment Operators strike. No impact to project critical path.

## SAFETY

Change from  
Last Month

Recordable Injury Rate		
National Average	12.2	
Project Rate (Cum.)	4.5	0.3
Lost Time Rate (Frequency)		
National Average	4.9	
Project Rate (Cum.)	0.0	None
Lost Work Days (Severity)		
National Average	148.1	
Project Rate (Cum.)	0.0	None

## SAFETY ANALYSIS

- Project continues with zero time case rate to date.



**PASADENA BLUE LINE  
Summary Status Report  
Period ending - September 29, 1995**



**COMMUNITY ISSUES**

- Community garden along existing right-of-way; MTA Real Estate and Legal assisting.
- Maintenance of rights-of-way (dumping, vagrancy); Facilities maintenance participating in clean-up.
- Construction in the Highland Park area; MTA Public Affairs working with Highland Park Advisory Council.

**ELECTED OFFICIALS INVOLVEMENT**

- |                                       |                            |
|---------------------------------------|----------------------------|
| • Councilperson Mike Hernandez        | • Supervisor Gloria Molina |
| • Assemblyperson Antonio Villaraigosa | • Senator Richard Polanco  |
| • Congressperson Xavier Becerra       |                            |

**QA / TQM ISSUES**

- Pasadena Blue Line Senior Night Workshop held on 9/22/95.
- PERC steering committee meeting on 9/19/95 to assess Arthur Andersen impacts and identify WPI actions.
- WPI Team on Arthur Andersen item QUT14 (submittals) met on 10/02/95.
- PERC WPI facilitator training to occur on 10/12/95.
- Meetings with executive sponsors (WPI Teams) complete by 10/13/95.

**CCR BACKLOG STATUS**

- 26 CCR's pending approval of the CCRB at an estimated value of \$7,094,731
- 32 CCR's have been approved by the CCRB for an estimated value of \$7,077,565.33.

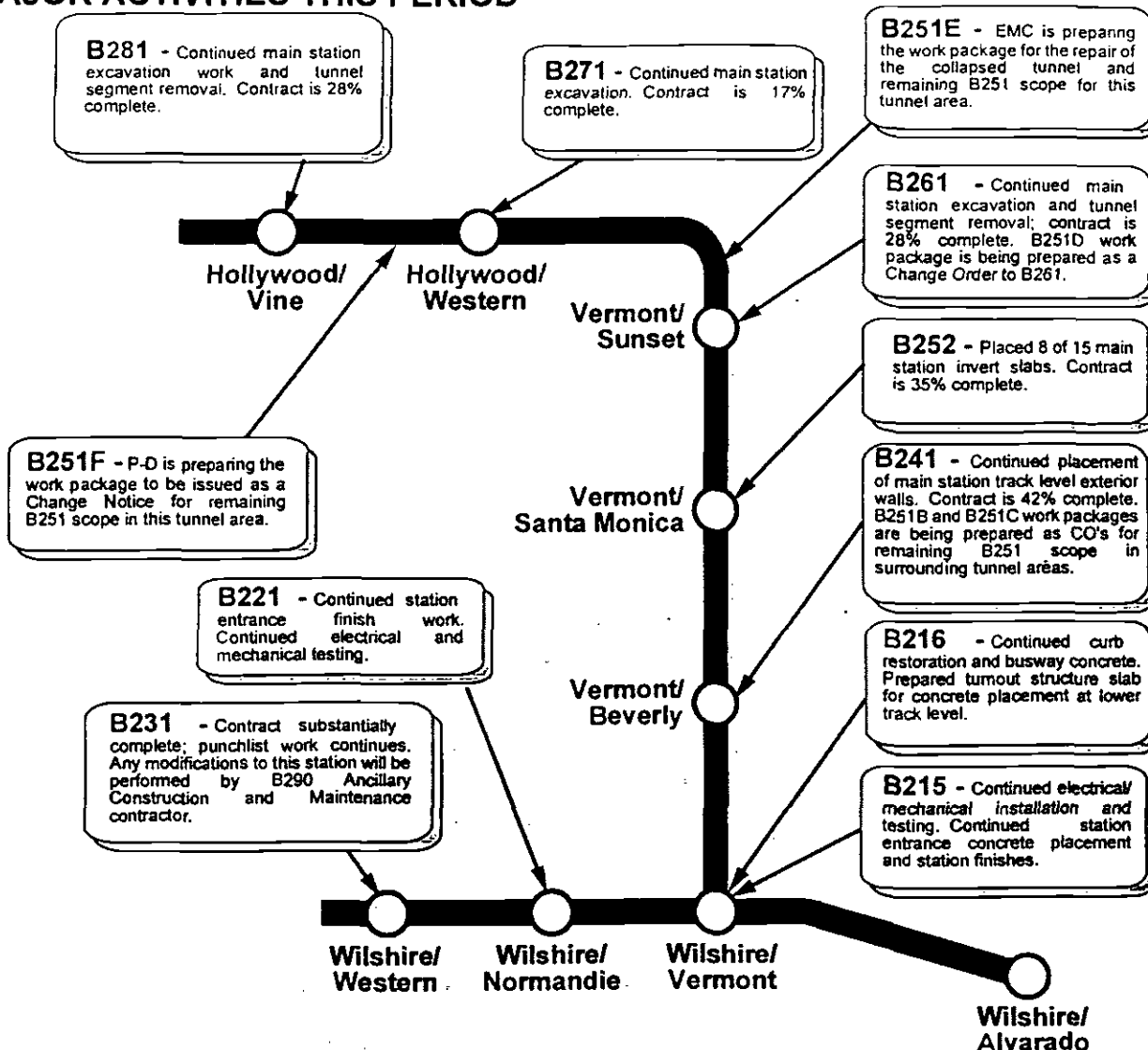
# **METRO RED LINE SEGMENT 2**

## **EXECUTIVE SUMMARY**

**METRO RED LINE - Segment 2**  
**Summary Status Report**  
**Period ending - September 29, 1995**



**MAJOR ACTIVITIES THIS PERIOD**



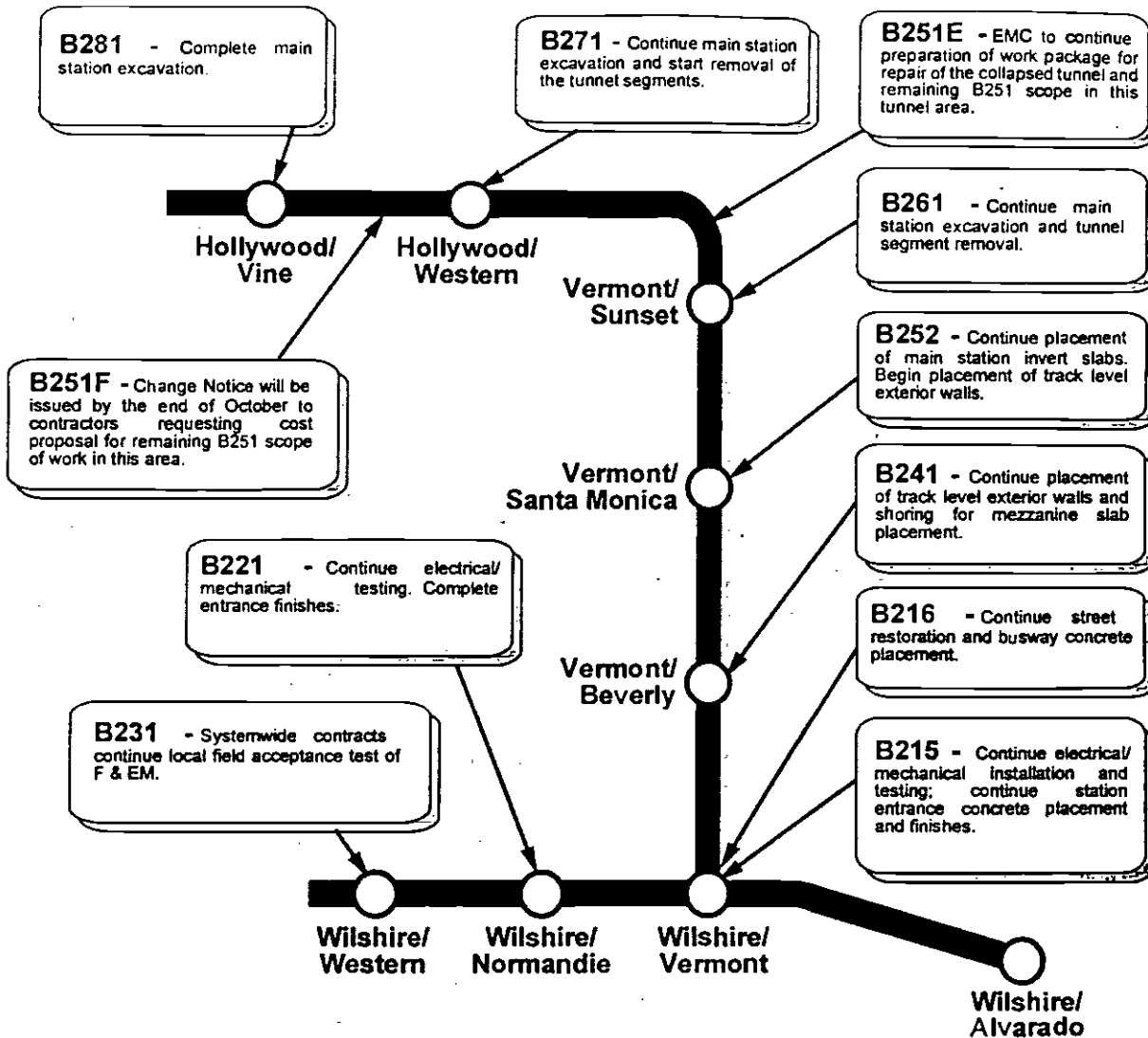
**SYSTEMWIDE ACTIVITIES**

Continued installation of intrusion detection, emergency management, public address, and fire detection systems. Traction power/emergency trip switch systems integration test was conducted this period. Continued train control operational tests. Continued installation of elevators/escalators at Wilshire/Normandie and Wilshire/Vermont Stations.

**METRO RED LINE - Segment 2**  
**Summary Status Report**  
**Period ending -September 29, 1995**



**MAJOR ACTIVITIES NEXT PERIOD**



**SYSTEMWIDE ACTIVITIES**

Conduct five systems integration tests. Continue train control operational tests. Complete installation of intrusion detection, emergency management, public address, and fire detection systems.

**METRO RED LINE - Segment 2**  
**Summary Status Report**  
**Period ending - September 29, 1995**



**MILESTONES ACHIEVED**

1. Issued Beneficial Occupancy for Wilshire / Western station.
2. Began construction of Turnout Structure closeure box at Wilshire / Vermont.
3. Hollywood / Vine and Vermont / Sunset stations began tunnel segment removal during excavation phase.

**NEXT MONTH LOOK AHEAD**

1. Prepare and issue RFQ's to contractors for packages B251B, B251C and B251D.
2. Continue systems integration tests for Wilshire Corridor.
3. Complete main station box excavation at Vermont /Sunset station.
4. Hollywood/Western station will begin tunnel segment removal.
5. Complete entrance roof concrete placement at Wilshire/Vermont station.
6. Complete station box excavation at Hollywood/Vine station.

**BUDGET**

	<u>Amount: (in \$ mil)</u>	<u>Change from Last Month (in \$ mil)</u>
Original Budget	1446	None
Approved Budget	1517	None
Current Forecast	1517	None
Expenditures	1004	+18.0

**BUDGET ANALYSIS**

- B251 scope was redefined. Estimate for this work is in progress.
- Project forecast is under review.

**METRO RED LINE - Segment 2 Summary Status Report**  
**Period ending - September 29, 1995**

**CONTRACT CHANGES**

**CONTRACT CHANGE ANALYSIS**

The approved changes had a 0.2% decrease in September, primarily due to various executed Change Notices and Work Authorization Change Notices in the work along the Wilshire Corridor. The pending changes increased 0.1% in September. Trends/Contingency had a 0.5% increase, primarily due to the decrease in the total logged value for construction. The AFE also increased 0.2% due to a Board-approved AFE increase for construction contracts B215, Wilshire/Vermont Station Stage II, and B648A, Communications Installation Wilshire Corridor.

**SCHEDULE**

		Change from Last Month
<u><b>Wilshire</b></u>		
Current ROD	Jul 1996	None
Design Progress	100%	None
Critical Path	+68 Days	-6 days
Float		
<u><b>Vermont/Hlywd.</b></u>		
Current ROD	Sep 1998	None
Design Progress	99%	None
Critical Path	-148 Days	-1 Days
Float		
Const. Progress	62%	+2%

**SCHEDULE ANALYSIS**

- Maintaining two months ahead of schedule for Wilshire Corridor.
- Proceeding with schedule mitigation for Vermont/Hollywood corridor. No change to Vermont / Hollywood corridor critical path.

**SAFETY**

		Change from Last Month
<b>Recordable Injury Rate</b>		
National Average	12.2	
Project Rate (Cum.)	22.1	-0.2
<b>Lost Time Rate (Frequency)</b>		
National Average	4.9	
Project Rate (Cum.)	3.0	-0.1
<b>Lost Work Days (Severity)</b>		
National Average	148.1	
Project Rate (Cum.)	78.3	-0.2

**SAFETY ANALYSIS**

- New Safety staff has been added to supplement the safety effort.

**METRO RED LINE - Segment 2**  
**Summary Status Report**  
**Period ending - September 29, 1995**



**COMMUNITY ISSUES**

- **Wilshire Corridor - Safety/Security concerns around stations. Increased communications with MTA Construction Security and Transit Police. Complaints from businesses that the Wilshire/Western Station is not being maintained; trash, dust are increasingly evident. Arts Festival - October 14, 1995; Public tours conducted.**
- **Vermont Corridor - Councilmember's concerns regarding Risk Management related to sinkhole. MTA is opening a Risk Management field office to ensure prompt response.**

**ELECTED OFFICIALS INVOLVEMENT**

- |  |                                       |
|--|---------------------------------------|
| • <b>Councilperson Nate Holden</b>     | • <b>Supervisor Mike Bohlke</b>       |
| • <b>Councilperson Jackie Goldberg</b> | • <b>Supervisor Yvonne Burke</b>      |
| • <b>Supervisor Zev Yaroslasky</b>     | • <b>Assemblyperson Louis Caldera</b> |
| • <b>Congressperson Xavier Becerra</b> | • <b>Councilperson John Ferraro</b>   |

**QA / TQM ISSUES**

- **Comprehensive audit of the EMC is complete. Report issued 10/04/95.**
- **Issues regarding the EMC Design Quality Manual and Procedures are nearing resolution, new DQM by 12/31/95.**
- **Recruitment of all new Quality personnel was completed 9/30/95.**
- **QC Management Organization being reviewed.**

**CCR BACKLOG STATUS**

- **73 CCR's pending approval of the CCRB at an estimated value of \$9,698,805.61.**
- **36 CCR's have been approved by the CCRB for an estimated value of \$4,974,885.65.**

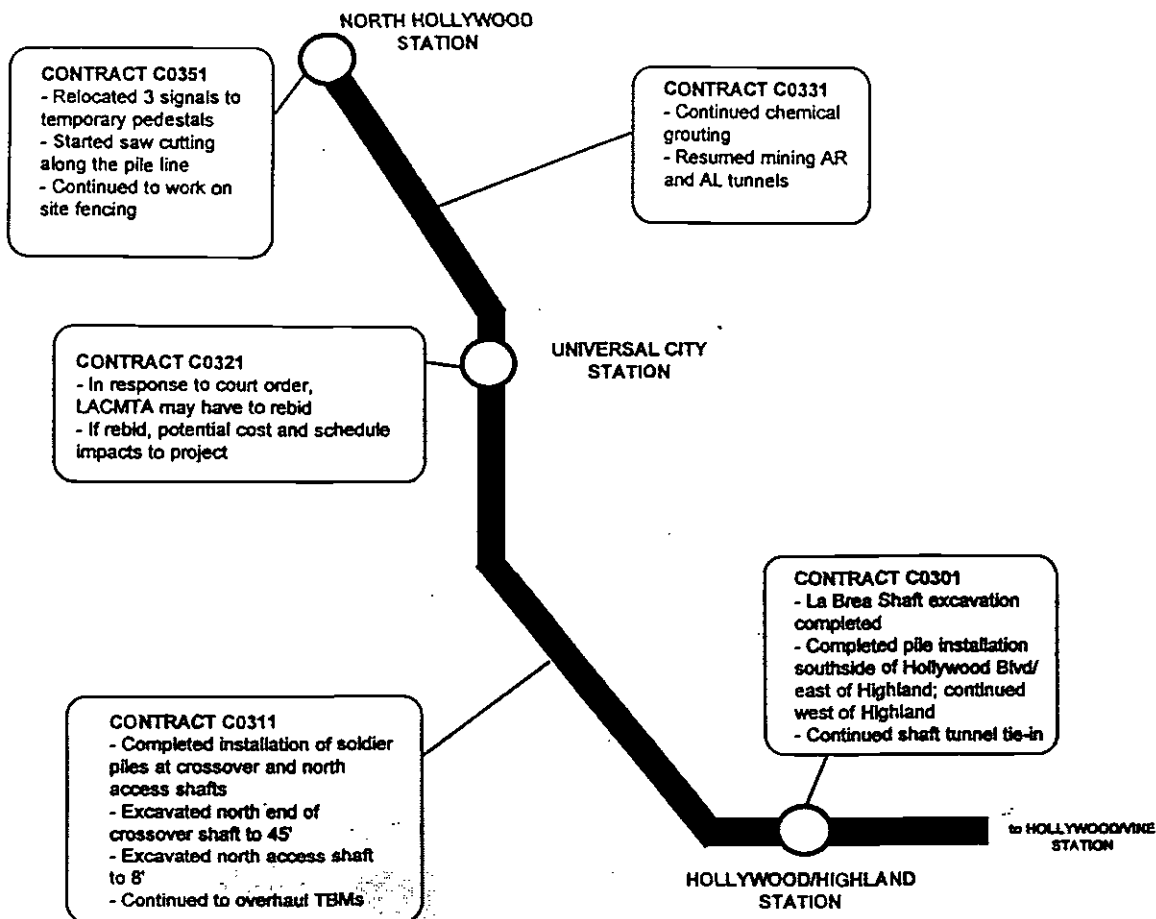
**METRO RED LINE SEGMENT 3  
NORTH HOLLYWOOD EXTENSION  
EXECUTIVE SUMMARY**



**METRO RED LINE - Segment 3 No. Hollywood**  
**Summary Status Report**  
**Period ending - September 29, 1995**



**MAJOR ACTIVITIES THIS PERIOD**



Contract C1610 constructibility review comments continued to be incorporated into final design.

Contract B251 repackaging work continued.

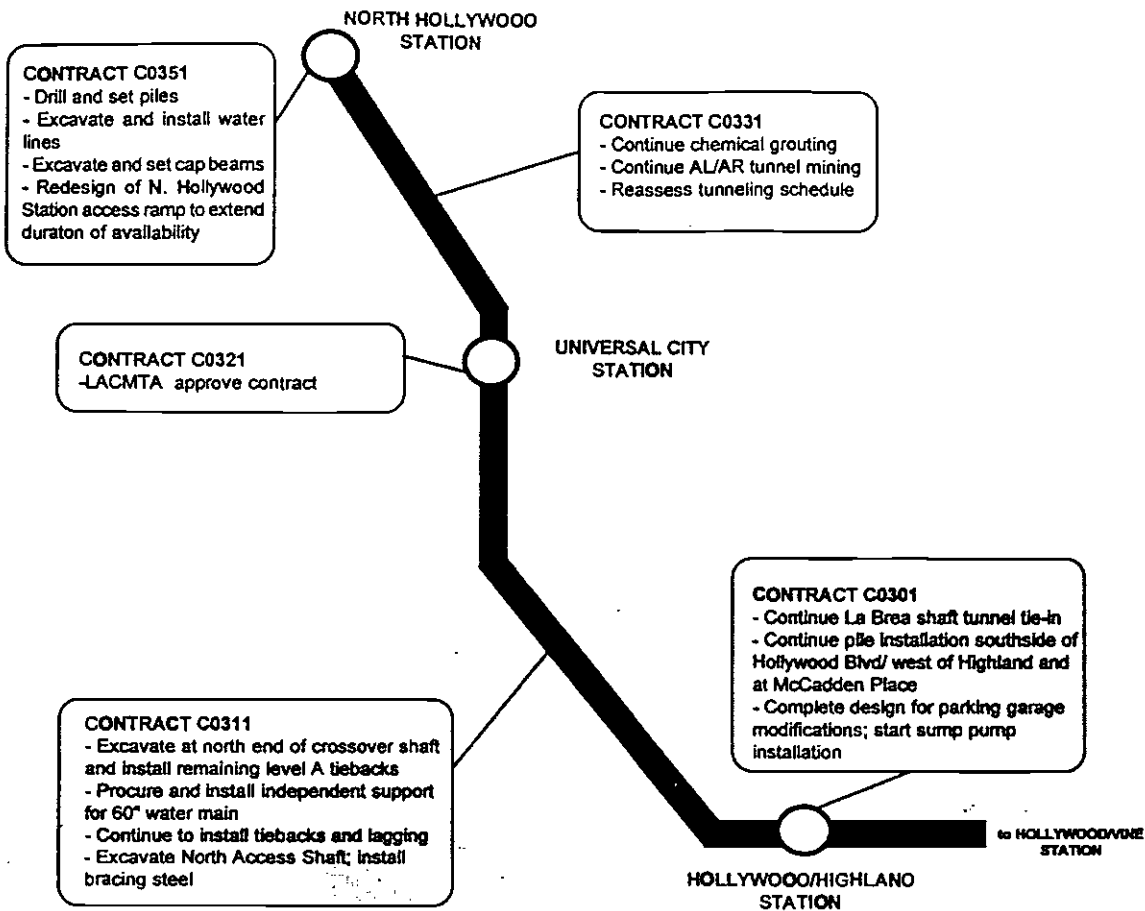
Contract C0301 parking structure modifications design completed.

Contracts B612, B620, B630 and H0631 design work continued.

**METRO RED LINE - Segment 3 No. Hollywood**  
**Summary Status Report**  
**Period ending - September 29, 1995**



**MAJOR ACTIVITIES NEXT PERIOD**



Contract C1610 final design work to continue.

Contract B251 repackaging work to continue; B251H work package being prepared for inclusion into Contract C0301.

Contract C0301 parking structure modifications installation and finish work to start.

Contracts B612, B620, B630 and H0631 design work to continue.

**METRO RED LINE - Segment 3 No. Hollywood**  
**Summary Status Report**  
**Period ending - September 29, 1995**



**MILESTONES ACHIEVED**

1. CO301 - Completed excavation of the La Brea Shaft.
2. CO301 - Completed design for parking structure modifications.
3. CO301 - Completed pile installation South side of Hollywood Boulevard / East of Highland.
4. CO311 - Completed installation of soldier piles at Crossover and North Access Shaft.
5. CO311 - Excavated North end of crossover shaft to 45'.

**NEXT MONTH LOOK AHEAD**

1. CO301 - Continue La Brea shaft tunnel tie-in.
2. CO301 - Start installation and finishes at parking garage.
3. CO301 - Continue pile installation South side of Hollywood Boulevard / West of Highland.
4. CO311 - Continue to overhaul TBMs.
5. CO311 - Excavate North access shaft. Install bracing steel.
6. CO311 - Procure and install independent support for 60" water main.
7. CO311 - Excavate at North end of Crossover shaft and install remaining level A tiebacks.
8. CO321 - LACMTA to approve or rebid contract.
9. CO331 - Continue chemical grouting.
10. CO331 - Continue AL/AR tunnel mining. Reassess tunneling schedule.

**BUDGET**

	<u>Amount (In \$ mil)</u>	<u>Change from Last Month (In \$ mil)</u>
Original Budget	1310.8	None
Approved Budget	1313.8	None
Current Forecast	1323.6	0.2
Expenditures	245.0	9.4

**BUDGET ANALYSIS**

- There were no budget changes for the month of September 1995. However, there were changes in the forecast. Contract CO331 increased \$8.1 million due to additional grouting costs and potential time extensions. Also, Contract CO326 was subdivided into contracts C1326, C2326, and C3326 at an incremental cost increase of \$3.3 million. Design Engineering forecast was revised at a forecast increase of \$4.3 million. These forecast increases were offset by a decrease in Project Contingency.
- The \$0.2 million Increase forecast change is due to 'new requirements' accounting adjustments associated with artwork and miscellaneous accounting corrections.

**METRO RED LINE - Segment 3 No. Hollywood Summary Status Report**  
**Period ending - September 29, 1995**

**CONTRACT CHANGES**

**CONTRACT CHANGE ANALYSIS**

- Approved changes and pending changes, together, account for approximately 2% increase over contract award. As construction progresses, this low percentage is expected to eventually increase to 17% as indicated by the trends/contingency line.

**SCHEDULE**

		<u>Change from Last Month</u>
Current ROD	May 2000	None
Design Progress*	90.0%	None
Construct. Progress*	12.8%	+2.6
Critical Path Float	-104 Days	None

\*Estimated actuals at time of update.

**SCHEDULE ANALYSIS**

- Critical path delay is currently at the start of the CO311 Tunnel contract and continues through sytems Installation. Recovery analysis work is underway.

**SAFETY**

		<u>Change from Last Month</u>
Recordable Injure Rate		
National Average	12.2	
Project Rate (Cum.)	14.1	.5
Lost Time Rate (Frequency)		
National Average	4.9	
Project Rate (Cum.)	0.0	-
Lost Work Days (Severity)		
National Average	148.1	
Project Rate (Cum.)	0.0	None

**SAFETY ANALYSIS**

- No significant changes Identified.
- Additional Safety staff has been added to supplement the safety effort.

**METRO RED LINE - Segment 3 North Hollywood**  
**Summary Status Report**  
**Period ending - September 29, 1995**



**COMMUNITY ISSUES**

- Noise impact at CO301 La Brea shaft.
- Hollywood/Highland Station - MTA co-sponsored "Taste of Hollywood" 2-day event.
- North Hollywood - Concerns regarding danger to homes, dewatering activities, seismic faults, vibrations and noise. Dean Ryan, environmental consultant to assist.
- Grouting along Lankershim impacting merchants. Public Affairs assisting.

**ELECTED OFFICIALS INVOLVEMENT**

- |                                 |                              |
|---------------------------------|------------------------------|
| • Councilperson Jackie Goldberg | • Supervisor Zev Yaroslasky  |
| • Senator Tom Hayden            | • Councilperson John Ferraro |

**QA / TQM ISSUES**

- Audit of JMA completed. Exit meeting held 10/03/95.
- Quality Program from JMA not submitted.

**CCR BACKLOG STATUS**

- 49 CCR's pending approval of the CCRB at an estimated value of \$11,113,949.
- 48 CCR's have been approved by the CCRB for an estimated value of \$6,700,309.

# **METRO RED LINE SEGMENT 3**

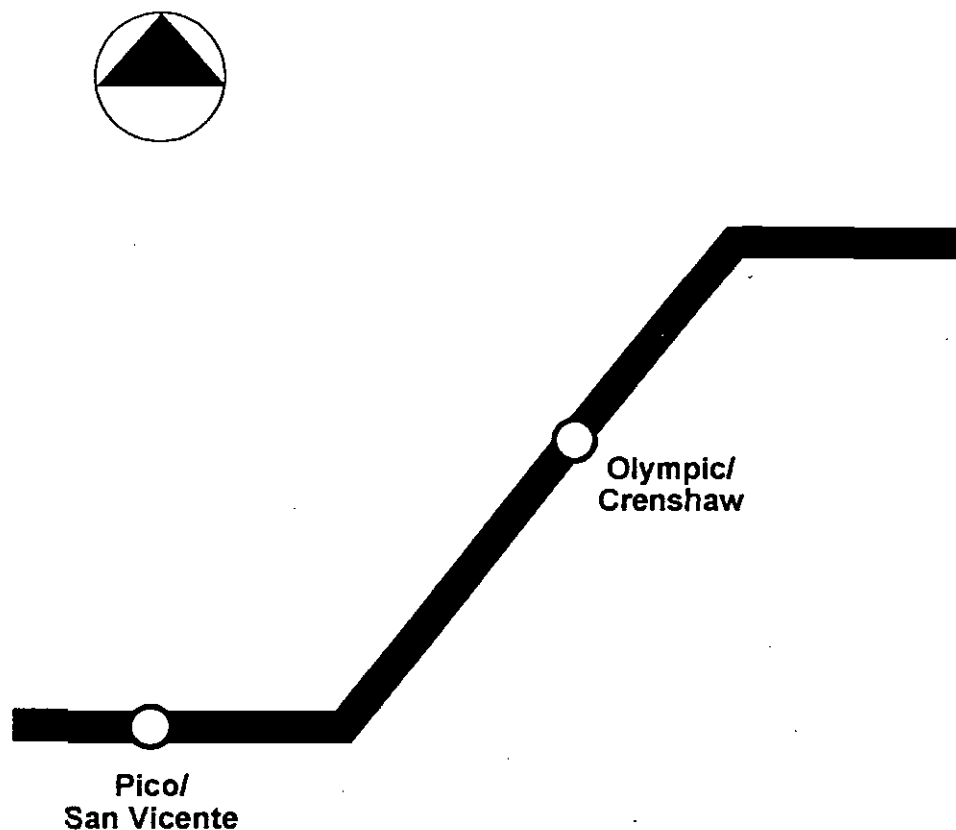
## **MID CITY EXTENSION**

### **EXECUTIVE SUMMARY**

**METRO RED LINE - Segment 3 Mid-City**  
**Summary Status Report**  
**Period ending - September 29, 1995**



**MAJOR ACTIVITIES THIS PERIOD**



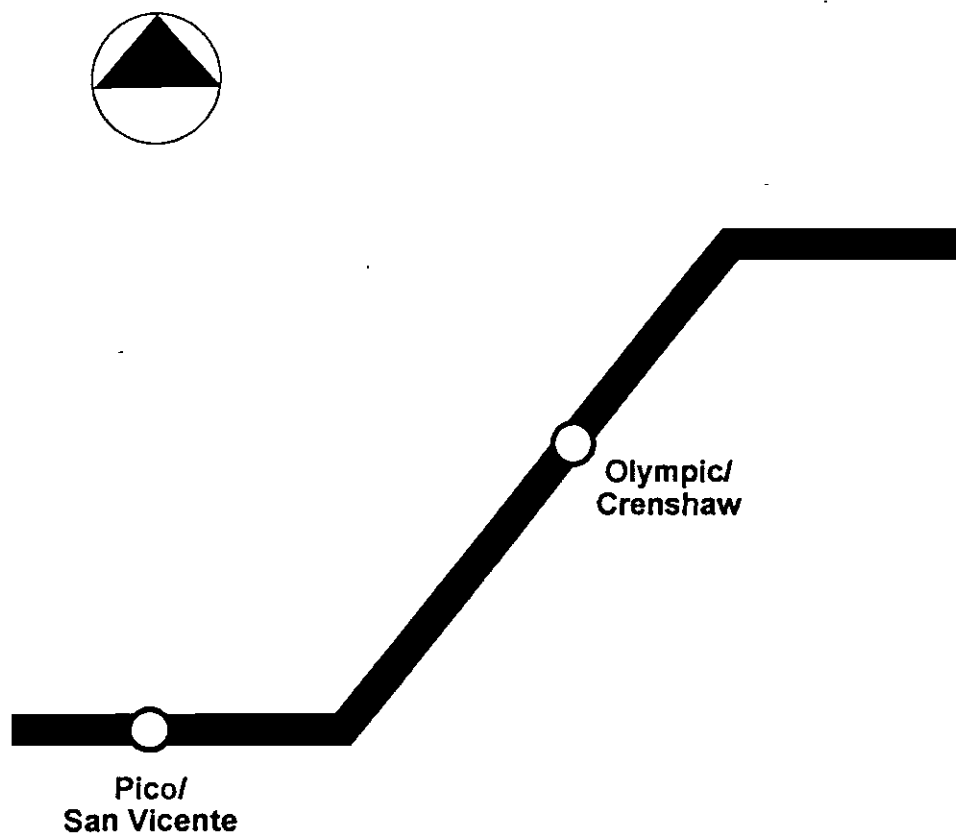
**SYSTEMWIDE ACTIVITIES**

- EMC has completed all preliminary design data requirements to support the draft SEIS/SEIR.
- Enviro-Rail, the environmental consultant, is completing the required documents for the draft SEIS/SEIR.

**METRO RED LINE - Segment 3 Mid-City**  
**Summary Status Report**  
**Period ending - September 29, 1995**



**MAJOR ACTIVITIES NEXT PERIOD**



**SYSTEMWIDE ACTIVITIES**

- All remaining items required to issue the draft SEIS/SEIR document to MTA will be completed by Enviro-Rail.
- The draft document will be reviewed by MTA and any comments will be incorporated into the draft SEIS/SEIR.



**METRO RED LINE - Segment 3 Mid-City**  
**Summary Status Report**  
**Period ending - September 29, 1995**



**MILESTONES ACHIEVED**

1. The physical percent complete for the SEIR/SEIS was reassessed to 73% through this period. The physical progress reassessment will not affect the submittal of the SEIR/SEIS to the MTA Board.
2. EMC has completed all design data required to support the SEIR/SEIS.

**NEXT MONTH LOOK AHEAD**

1. The draft SEIR/SEIS will be issued.
2. MTA will complete review on SEIR/SEIS draft.

**BUDGET**

	<u>Amount (In \$ mil)</u>	<u>Change from Last Month (In \$ mil)</u>
Original Budget	490.6	None
Approved Budget	490.6	None
Current Forecast	TBD	TBD
Expenditures	10.1	None

**BUDGET ANALYSIS**

- Forecast amount will be subject to outcome of alignment alternative selected.

**METRO RED LINE - Segment 3 Mid-City Summary Status Report**  
**Period ending - September 29, 1995**

**CONTRACT CHANGES**

**CONTRACT CHANGES ANALYSIS**

**SCHEDULE**

		<u>Change from Last Month</u>
Current ROD	TBD	None
Design Progress	0%	None
Construct. Progress	0%	None
Critical Path Float	N/A	None

**SCHEDULE ANALYSIS**

- Design configuration in development.

**SAFETY**

	<u>Change from Last Month</u>
Recordable Accidents	
National Average	12.2
Project Rate (Cum.)	
Lost Time Rate (Frequency)	
National Average	4.9
Project Rate (Cum.)	
Lost Work Days (Severity)	
National Average	148.1
Project Rate (Cum.)	

**SAFETY ANALYSIS**

- Construction not started.

**METRO RED LINE - Segment 3 Mid-City  
Summary Status Report  
Period ending - September 29, 1995**



**COMMUNITY ISSUES**

- None

**ELECTED OFFICIALS INVOLVEMENT**

- None

**QA / TQM ISSUES**

- None

**CCR BACKLOG STATUS**

- 2 CCR's pending approval of the CCRB at an estimated value of \$132,800.
- 5 CCR's have been approved by the CCRB for an estimated value of \$843,430.

**METRO RED LINE SEGMENT 3**

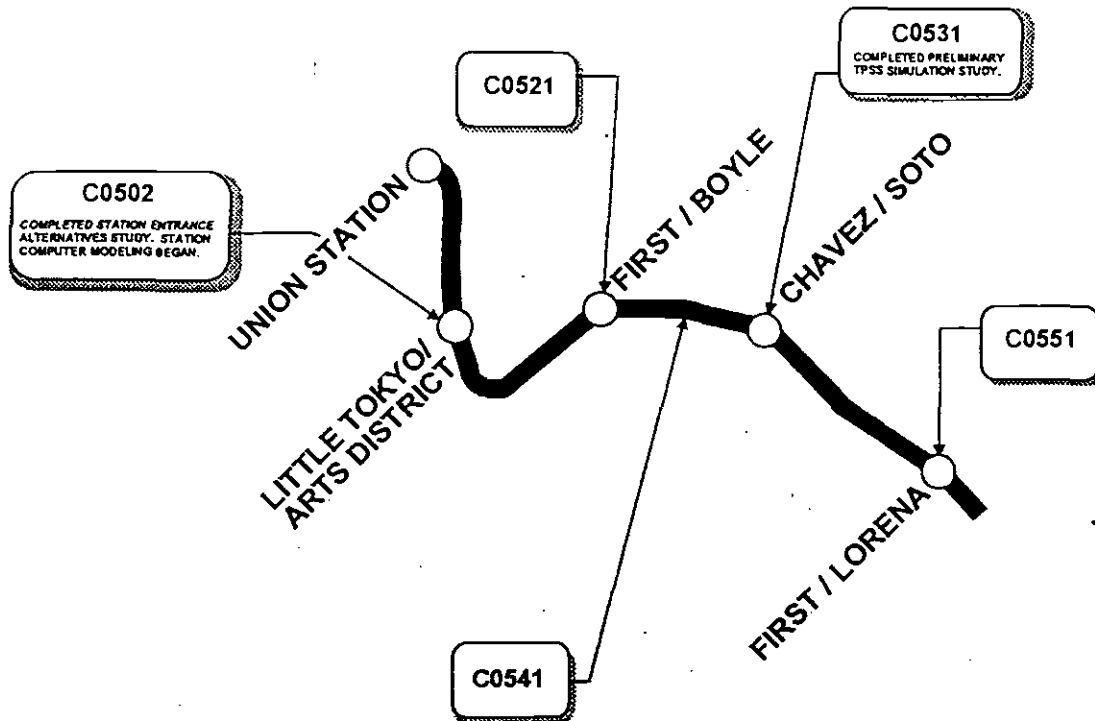
**EAST SIDE EXTENSION**

**EXECUTIVE SUMMARY**

**METRO RED LINE - Segment 3 East Side**  
**Summary Status Report**  
**Period ending - September 29, 1995**



**MAJOR ACTIVITIES THIS PERIOD**



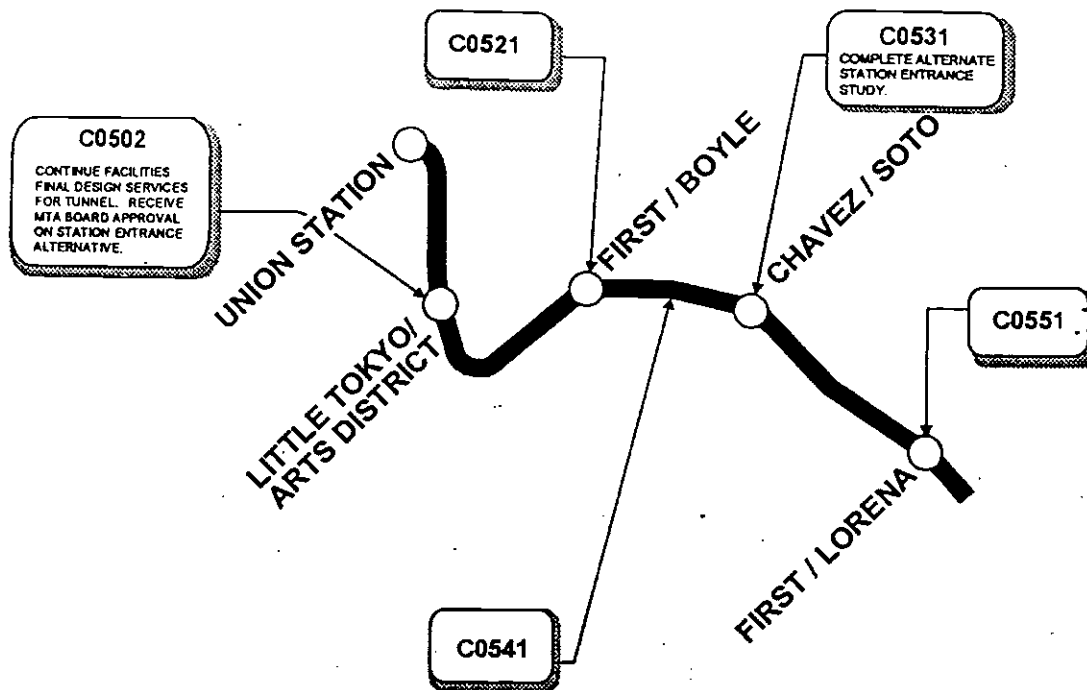
**SYSTEMWIDE ACTIVITIES**

CONTINUED RIGHT-OF-WAY CERTIFICATION, CONTINUED CROSSOVER STUDY, AND UPDATING END MODULES WITH VERTICAL FANS DESIGN. CONTINUED GEOTECHNICAL SERVICES AND COMPLETED RIGHT-OF-WAY CERTIFICATION SCHEDULE. CWO #28, AMENDMENT #1 WAS ISSUED SEPTEMBER 19, 1995 FOR THE \$6 MILLION AFE. AWARDED SPECIALTY SUBCONTRACTS FOR BUILDING PROTECTION SURVEY AND PHOTOGRAMMETRY. DELAYED CM PROCUREMENT PENDING MTA BOARD DECISIONS ON DESIGN-BUILD APPROACH.

**METRO RED LINE - Segment 3 East Side**  
**Summary Status Report**  
**Period ending - September 29, 1995**



**MAJOR ACTIVITIES NEXT PERIOD**



**SYSTEMWIDE ACTIVITIES**

CONTINUE RIGHT-OF-WAY CERTIFICATION, BEGIN SYSTEMS ATC STUDY, BEGIN BUILDING SYSTEMS CELL LIBRARY, CONTINUE GEOTECHNICAL SERVICES, AND AWARD CONTRACT TO THE POTHOLING SUBCONSULTANTS. AWARD SECTION DESIGNER CONTRACTS. AWARD AMENDMENT TO EMC'S CONTRACT FOR FINAL DESIGN.

**METRO RED LINE - Segment 3 East Side**  
**Summary Status Report**  
**Period ending - September 29, 1995**



**MILESTONES ACHIEVED**

1. A Contract Work Order was issued to EMC on 6/29/95 to start with a limited Notice To Proceed for final design for \$2.3 million. An ammendment for the additional \$3.7 million, approved by the MTA Board, was issued 9/19/95.

**NEXT MONTH LOOK AHEAD**

1. Resolution of protest on Section Design Awards and presentation to the MTA Board.
2. MTA Board approval of an additional \$3.0 million will be required for continuity and progress of the design effort on this project through January 1996.
3. Receive consultant study on design organization and design-build alternatives.

**BUDGET**

	<u>Amount</u> <u>(in \$ mil)</u>	<u>Change from</u> <u>Last Month</u> <u>(in \$ mil)</u>
Original Budget	980.0	None
Approved Budget	980.0	None
Current Forecast	980.0	None
Expenditures	11.8	0.2

**BUDGET ANALYSIS**

- \$3.2 million monthly cost for project delay due to delay of section design award.

**METRO RED LINE - Segment 3 East Side Summary Status Report**  
**Period ending - September 29, 1995**

**CONTRACT CHANGES**

- Not applicable.

**CONTRACT CHANGE ANALYSIS**

**SCHEDULE**

		Change from <u>Last Month</u>
Current ROD	Nov 2002	None
Design Progress	32.0%	0.8%
Construct. Progress	N/A	N/A
Critical Path Float	N/A	N/A

**SCHEDULE ANALYSIS**

- Schedule impact of six months delay to date in section design award; subject to resolution of protest. Delay in award has a day for day impact on project critical path. Possible re-procurement could add minimum 3-month delay.
- CM procurement on hold pending outcome of design-build study.
- Forecast ROD is now August 2003, or 199 days behind FFGA schedule.

**SAFETY**

	Change from <u>Last Month</u>
Recordable Injury Rate	
National Average	12.2
Project Rate (Cum.)	-
Lost Time Rate (Frequency)	
National Average	4.8
Project Rate (Cum.)	-
Lost Work Days (Severity)	
National Average	148.1
Project Rate (Cum.)	-

**SAFETY ANALYSIS**

- Construction not started.



**METRO RED LINE - Segment 3 East Side**  
**Summary Status Report**  
**Period ending - September 29, 1995**



**COMMUNITY ISSUES**

- **HOUSING:** Relocation assistance.
- **CONSTRUCTION:** Mitigation program.
- **ECONOMIC DEVELOPMENT:** Local employment opportunities.
- **COMMUNITY OUTREACH:** Create a multi-lingual information telephone line. Create a banner program for station sites and corridor. Establish a Metro Rail Information Field Office.

**ELECTED OFFICIALS INVOLVEMENT**

- Vivian Bonzo and Supervisor Gloria Molina concerned about the award of section design contractor and organization structure to be used for field design.
- Councilperson Richard Alatorre concerned about accommodations for kiosk given by Mexico to Los Angeles for incorporation into Mariachi Plaza.
- Congressperson Xavier Becerra concerned about avoiding further delays to the project.

**QA / TQM ISSUES**

- Comprehensive Audit of EMC has been completed (report sent to EMC 10/04/95).
- Department of Quality Management recruitment was completed 9/30/95.
- Completion of upgrade of Design Quality Manual for EMC is scheduled for 12/31/95.
- A cure letter, which could impact East Side design activities, has been sent to the EMC requiring corrective action in the Design Quality Program. Resolution of outstanding QA issues by EMC is underway. Items for resolution prior to initiation of East Side design are identified. EMC has placed high priority on closure.

**CCR BACKLOG STATUS**

- 3 CCR's pending approval of the CCRB at an estimated value of \$17,000.

# **VEHICLE ACQUISITION PROJECT**

## **EXECUTIVE SUMMARY**

**L.A. LIGHT RAIL VEHICLE**  
**Summary Status Report**  
**Period ending - September 29, 1995**



**MILESTONES ACHIEVED**

1. Siemens (SDC) officially notified of car reduction of 22 cars.
2. Vehicle subsystem designs progressed.
3. CCI Carson facility began manufacture of 1st carshell.
4. Conceptual Design Review was held on ATPDP Radar Detection System (Product B).

**NEXT MONTH LOOK AHEAD**

1. Evaluate SDC claim for 60 day schedule relief for 60 day extension of option 3 (1st 34 driverless cars).
2. Expedite SDC termination proposal for reduction of cars.
3. Board will consider driverless issue.
4. SDC on-going effort to reduce car weight.
5. Review ATPDP budget and re-allocation.
6. Review SDC's new delivery schedule.
7. Continued review and approval of subsystem designs.

**BUDGET**

	<u>Amount (in \$ mil)</u>	<u>Change from Last Month (in \$ mil)</u>
Original Budget	257.6	-0-
Approved Budget	257.6	-0-
Current Forecast	201.4	56.2
Expenditures	57.9	-0-

**BUDGET ANALYSIS**

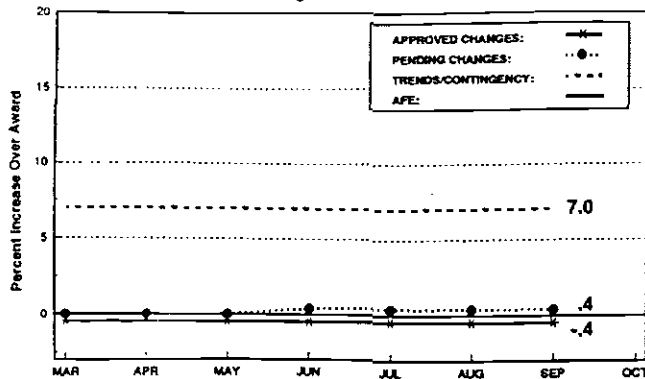
- Car reduction effected 9/08/95 which will reduce contract value from \$215 million to about \$170 million after termination liability is negotiated (4-6 months from now).
- Current forecast includes reduction of both procurement contract value and other project costs.

# L.A. LIGHT RAIL VEHICLE Summary Status Report

Period ending - September 29, 1995

## CONTRACT CHANGES

Construction/Procurement Contracts  
Contract Changes  
as % of Original Contract Award



## CONTRACT CHANGE ANALYSIS

The figures for September 1995 are as follows:

Approved Changes ..... (0.5%)

Pending Changes ..... 0.04%

Trends/Contingency ..... 7.0%

## SCHEDULE

Change from  
Last Month

### Schedule Car Delivery

1st Car	November 1996	
52nd Car	November 1998	
Design Progress	80-90% complete	N/C
Fabrication Progress	25-30% complete	N/C
Critical Path	Carshell delivery	N/C
Float	-5 months	N/C

## SCHEDULE ANALYSIS

Contractor's current forecast schedule reflects 5 month delay in 1st car deliveries. SDC reviewing to see if improvements can be made. Pacing items are carshell and air conditioning units.

## SAFETY

Change from  
Last Month

## SAFETY ANALYSIS

Not applicable - SDC activities are at remote locations.

**L.A. LIGHT RAIL VEHICLE  
Summary Status Report  
Period ending - September 29, 1995**



**COMMUNITY ISSUES**

- We are informed that AAI, SDC's Partner/Subcontractor in the Carson Carshell Plant will sever their relationship and SDC will now run the plant. Further, we are informed that the plant and production managers have elected to leave. (MTA has not been officially notified)

**ELECTED OFFICIALS INVOLVEMENT**

- None.

**QA / TQM ISSUES**

- Issues surrounding the scope of SDC source inspection have largely been resolved. Scheduling of 1st article inspection is in progress.
- High parts rejection rate at CCI (Carson facility) has been substantially reduced from 19% to 6%. Reduction is due to in-house defects review with vendors and, returns to vendor (RTV), and source inspections.
- Duewag truck quality problems (Xray) have mostly been resolved. Truck static and fatigue tests are expected mid-November.
- Preliminary schedule information from A/C subcontractor Sutrak indicates too high a projected acceptance rate and assumes unrealistic production and inspection rates. Sutrak yet to submit design information for review. SDC investigating what can be done to improve the situation.
- SDC is being advised to coordinate sub-contractor 1st article inspection in compliance of specification.

**CCR BACKLOG STATUS**

- 3 CCR's pending approval by the CCRB for an estimated value of \$2,469,000.