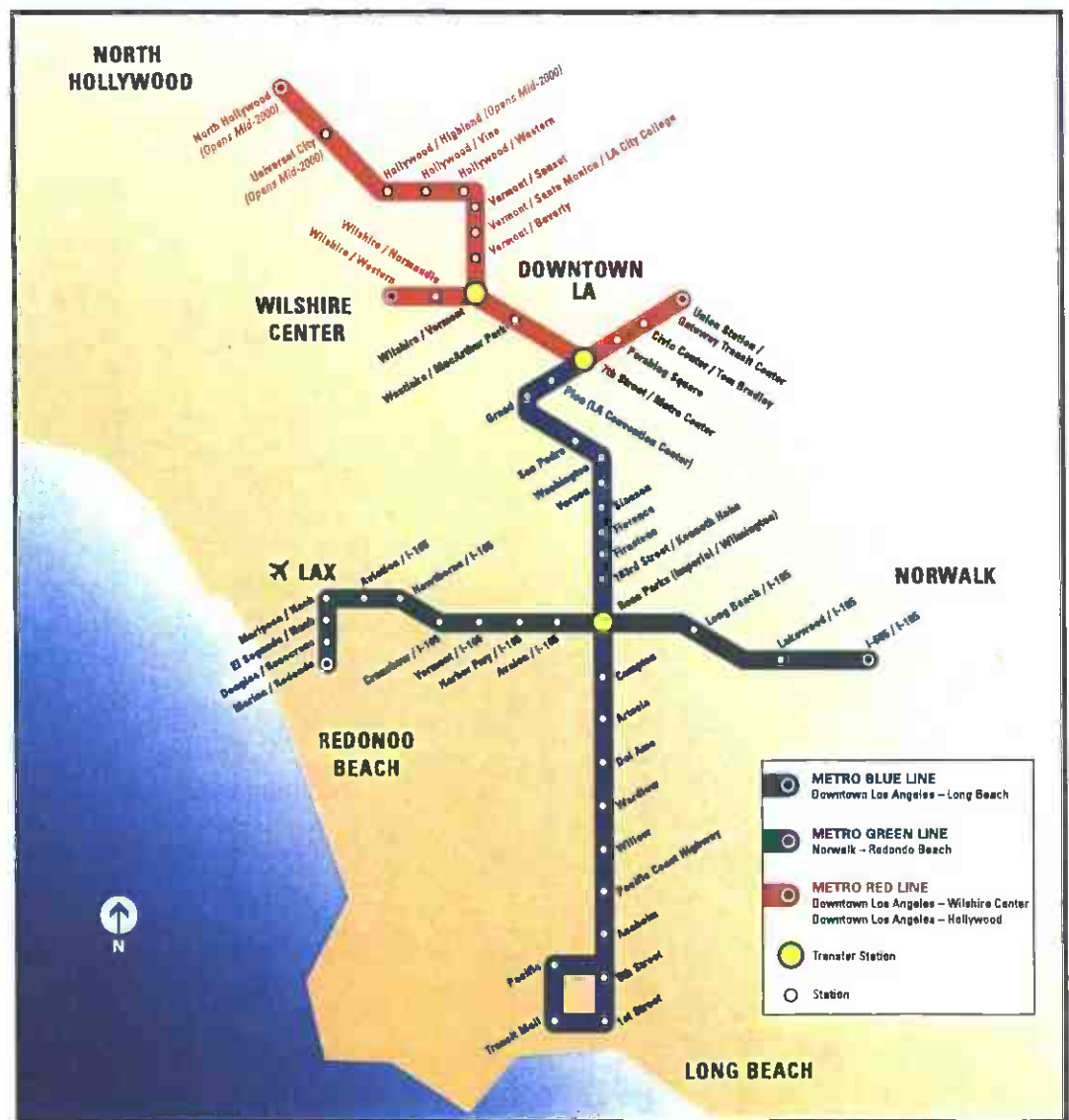


# MTA METRO CONSTRUCTION



## Executive Report Rail Program Status



August 1999

## **RAIL PROGRAM STATUS SUMMARY**

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

**AUGUST 1999**

# **RAIL PROGRAM SUMMARY**



# EXECUTIVE SUMMARY RAIL PROGRAM STATUS as of August 1999

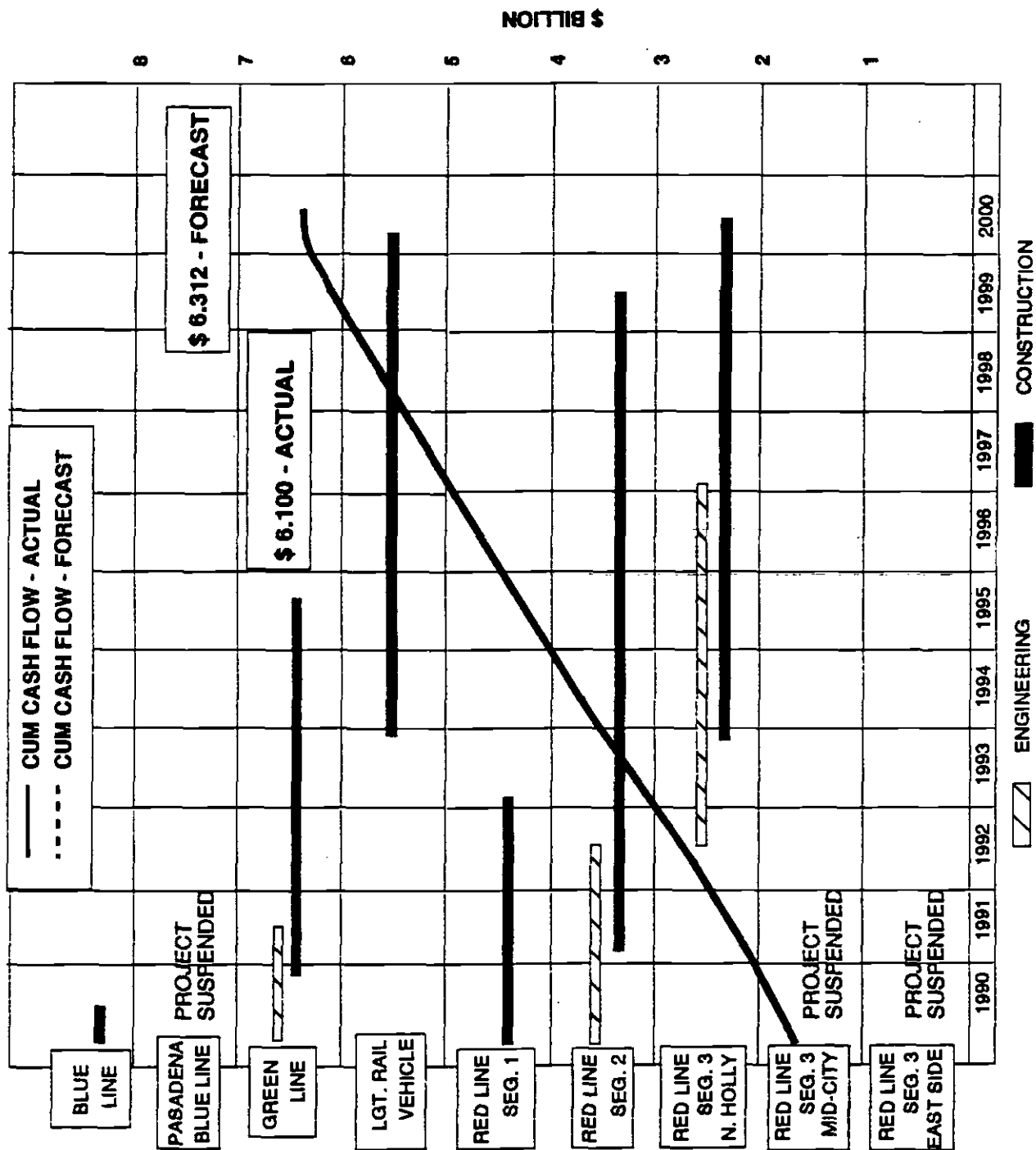
	RED Segment 1	RED Segment 2	RED Seg 3 N. Hollywd.	RED Seg 3 Mid-City	RED Seg 3 East Side	BLUE Long Beach/LA	BLUE Pasadena	GREEN	Light Rail Vehicle	Summary
Length	4.4 MI.	6.7 MI.	6.3 MI.		.	22 MI.		20 MI.	—	59.4 MI.
Number of Stations	5	8	3			22		14	52 cars	52 stas.
Technology	Heavy Rail	Heavy Rail	Heavy Rail			Light Rail		Light Rail	Light Rail	—
MTA Approved Opening Date	Jan 1993	Wilshire Jul 1996 Vermont Jun 1999	May 2000			July 1990		August 1995	Final Car Delivery Sept 2000	Final Completion Sept 2000
Design Status	Completed	Completed	100%	Project suspended	Project suspended	Completed	Project suspended	Completed	Based on Milestones 98%	4 of 6 complt'd.
Construction Status	Completed	Completed	85.2%	Project suspended	Project suspended	Completed	Project suspended	99%	Based on Milestones 74%	3 of 6 complt'd.
Expenditures to Date (in mil.)	\$1438	\$1609	\$999	\$14	\$141	\$860	\$235	\$677	\$127	\$6100
MTA Approved Budget (in mil.)	\$1450	\$1739	\$1314	Project suspended	Project suspended	\$877	Project suspended	\$712	\$258	\$6350
Federal Funding	48%	41%	71%			0%		0%	30%	32%
State/Local Funding	52%	59%	29%			100%		100%	70%	68%

**METROPOLITAN TRANSPORTATION AUTHORITY  
FUNDING SOURCES (IN MILLIONS)**

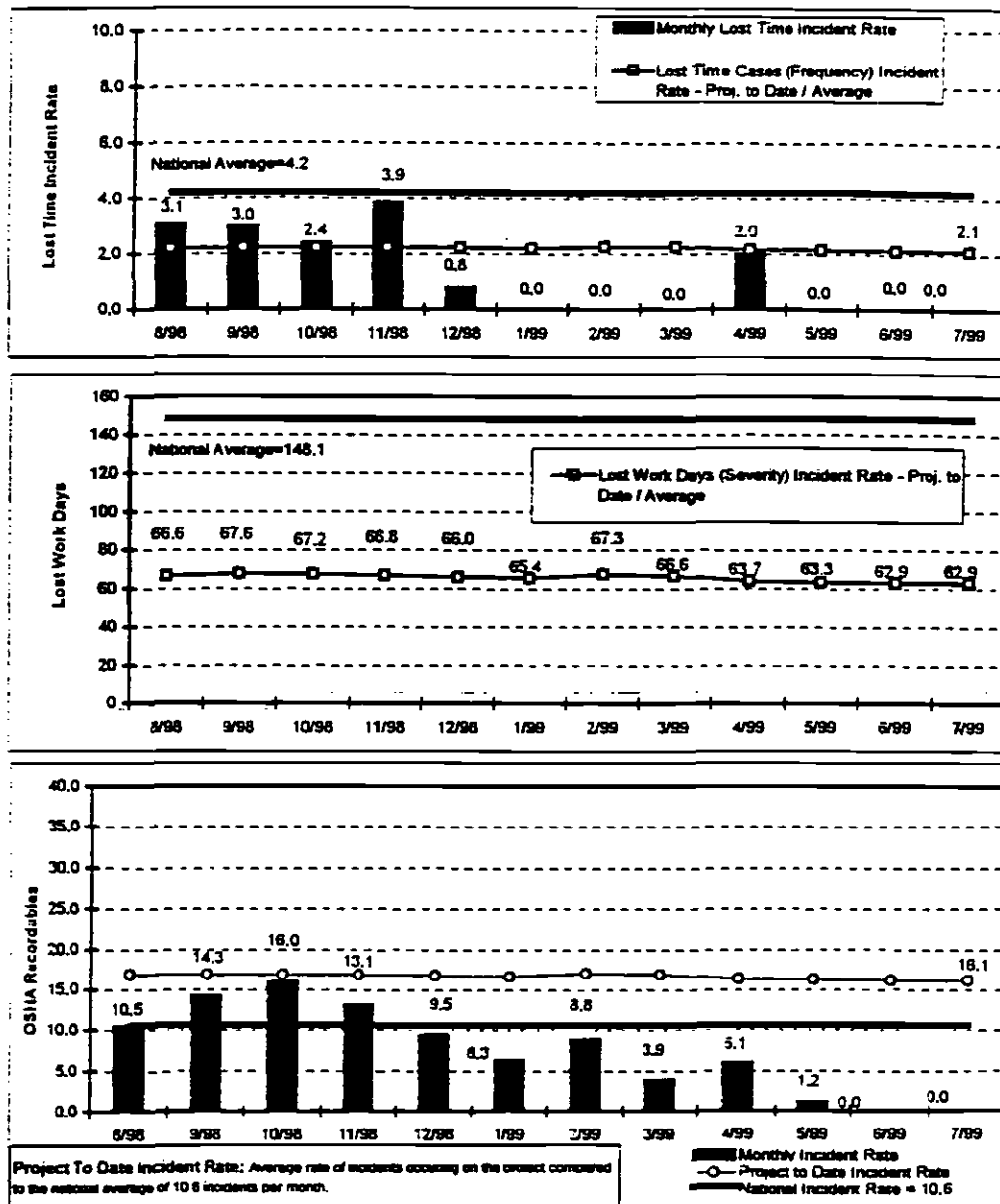
	METRO BLUE LINE	METRO GREEN LINE	METRO RED SEGMENT 1	METRO RED SEGMENT 2	METRO RED SEGMENT 3 - NH	** LIGHT RAIL VEHICLE	AUGUST 1999 TOTAL PROGRAM	
							\$	%
<b>ORIGINAL SCOPE:</b>								
FTA-SECTION 3			605.3	667.0	681.0		1953.3	31
FTA - OTHER								
ISTEA - FED SURFACE TRANSIT PROG				52.1	174.3	55.1	281.5	5
FED-ISTEA RSTP/CMAQ					80.6	6.1	86.7	1
FTA-SECTION 9			90.6				90.6	1
STATE		105.9	210.3	133.0	148.5	16.4	614.1	10
STATE TSM MATCH					10.5		10.5	0
SB 1995 TRUST FUND					66.7		66.7	1
PROPOSITION A	877.2	205.1	179.5	504.3			1766.1	29
PROPOSITION C		401.3			59.2	123.8	584.3	9
CITY OF LOS ANGELES			34.0	96.0	90.0		220.0	4
BENEFIT ASSESSMENT			130.3				130.3	2
CDST OVERRUN ACCOUNT			200.1	191.3			391.4	5
<b>APPROVED BUDGET</b>	<b>877.2</b>	<b>712.3</b>	<b>1450.1</b>	<b>1643.7</b>	<b>1310.8</b>	<b>201.4</b>	<b>6195.5</b>	<b>99</b>
<b>CURRENT FORECAST</b>	<b>877.2</b>	<b>716.3</b>	<b>1439.0</b>	<b>1645.3</b>	<b>1310.8</b>	<b>201.4</b>	<b>6190.0</b>	
<b>ADDITIONAL LOCALLY FUNDED ACTIVITIES:</b>								
PROP C (ARTWORK)					2.7		2.7	0
PROP C (NON-REV. CONNECTOR)					0.3		0.3	0
COST OVERRUN ACCOUNT				24.7			24.7	0
PROP C (TRANSIT ENHANCEMENTS)				66.0			66.0	1
PRIVATE FUNDS (KAISER HOSPITAL)				4.4			4.4	0
<b>APPROVED BUDGET</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>95.1</b>	<b>3.0</b>	<b>0.0</b>	<b>98.1</b>	<b>1</b>
<b>CURRENT FORECAST</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>93.5</b>	<b>28.7</b>	<b>0.0</b>	<b>122.2</b>	

**Note:** Metro Red Line Segment 3 Mid-City Extension, Metro Red Line Segment 3 East Side Extension, and Metro Pasadena Blue Line projects have been suspended and are not included on this chart.

\*\* Original Scope Funding for the Light Rail Vehicle Project is shown as the Current Forecast not the Approved Budget.



July 1999

Prepared By:  
Marsh Risk and Insurance ServicesTotal Metro  
Safety Summary

• March 12, 1997 The Bureau of Labor and Statistics issued the news release "Workplace Injuries and Illnesses in 1995." OSHA 200 Cases is now 10.6 and Lost Workday Cases involving Days Away From Work is now 4.2.

8/25/99

# METRO RED LINE SEGMENT 3 NO. HOLLYWOOD

## Rail Program Status Summary

### Period Ending - August 27, 1999



#### PROJECT DESCRIPTION

The North Hollywood Extension includes three stations and extends 6.3 miles northwest from the terminus of Segment 2 at Hollywood/Vine to a new terminus at North Hollywood station. Two intermediate stations, one at Hollywood/Highland and another at Universal City, complete this extension.

#### SCHEDULE PROGRESS

	Expended (in \$ Mil.)	Percent Complete
<b>DESIGN</b>		
Monthly Progress	0.0	0.2 %
Prior Cumulative Prog.	\$ 83.8	99.8
Cumulative Progress	83.8	100.0
<b>CONSTRUCTION</b>		
Monthly Progress	0.0	2.0 %
Prior Cumulative Prog.	\$ 643.2	83.2
Cumulative Progress	643.2	85.2
<b>OTHER Cost Elements</b>	\$ 264.1	
<b>TOTAL</b>	<b>**\$ 991.1</b>	

#### STATUS OF FUNDS BY SOURCE (in \$ mil.)

Source	Total Funds Anticipated (in \$ mil.)	Total Funds Available (in \$ mil.)	Expend.
FTA - Section 3	\$544.8	\$374.2	\$422.1
FTA - Sect 3 Defer. Local	136.2	93.6	105.5
FED ISTE A STP (State)	174.3	174.3	62.3
FED ISTE A STP/CMAQ	71.4	71.4	71.4
FED ISTE A RSTP Defer	9.2	9.2	9.2
SB 1995 Trust Fund	66.7	66.7	66.7
State SHA/Article XIX	64.8	49.4	64.5
State Proposition 116	57.7	57.7	57.7
State TSM Match	10.5	10.5	10.5
State Congestion Relief	26.0	26.0	26.0
City of Los Angeles	90.0	58.0	58.0
Proposition C	59.2	43.7	43.7
Benefit Assessment Dist	0.0	0.0	0.0
<b>TOTAL</b>	<b>\$1310.8</b>	<b>\$1034.7</b>	<b>\$997.6</b>
<b>ADDITIONAL LOCALLY FUNDED ACTIVITIES</b>			
Prop C (Artwork)	2.7	0.9	0.9
Prop C (Non-Rev Connect)	0.3	0.0	0.0
<b>TOTAL</b>	<b>\$3.0</b>	<b>\$0.9</b>	<b>\$0.9</b>

#### BUDGET/FORECAST STATUS (in \$ mil.)

Cost Element	Current Budget	Current Forecast
Construction	\$824.7	\$849.1
Professional Services	300.8	310.9
Real Estate	89.0	86.3
Utility Force Account	26.3	26.6
Special Programs	0.0	0.0
Contingency	69.6	35.3
Project Reserve	0.4	2.6
Project Revenue	0.0	0.0
<b>TOTAL ORIGINAL SCOPE</b>	<b>\$1310.8</b>	<b>\$1310.8</b>
	<b>Current Budget</b>	<b>Current Forecast</b>
<b>TOTAL ADDITIONAL LOCALLY FUNDED ACTIVITIES</b>	<b>\$3.0</b>	<b>\$28.7</b>

\*\* Expenditures remained unchanged from the July 1999 report period.  
Expenditure data is currently maintained by MTA Accounting.

#### SCHEDULE STATUS

REVENUE OPERATIONS DATE: May 2000

Although the FTA FFGA stipulates project completion on December 12, 2000, the current planned completion date is May 17, 2000 the forecast for completion is June 14, 2000.

#### CURRENT ACTIVITIES / ISSUES

The project is forecasting a \$28.7 m overrun to the current budget largely due to increased agency overhead costs.



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

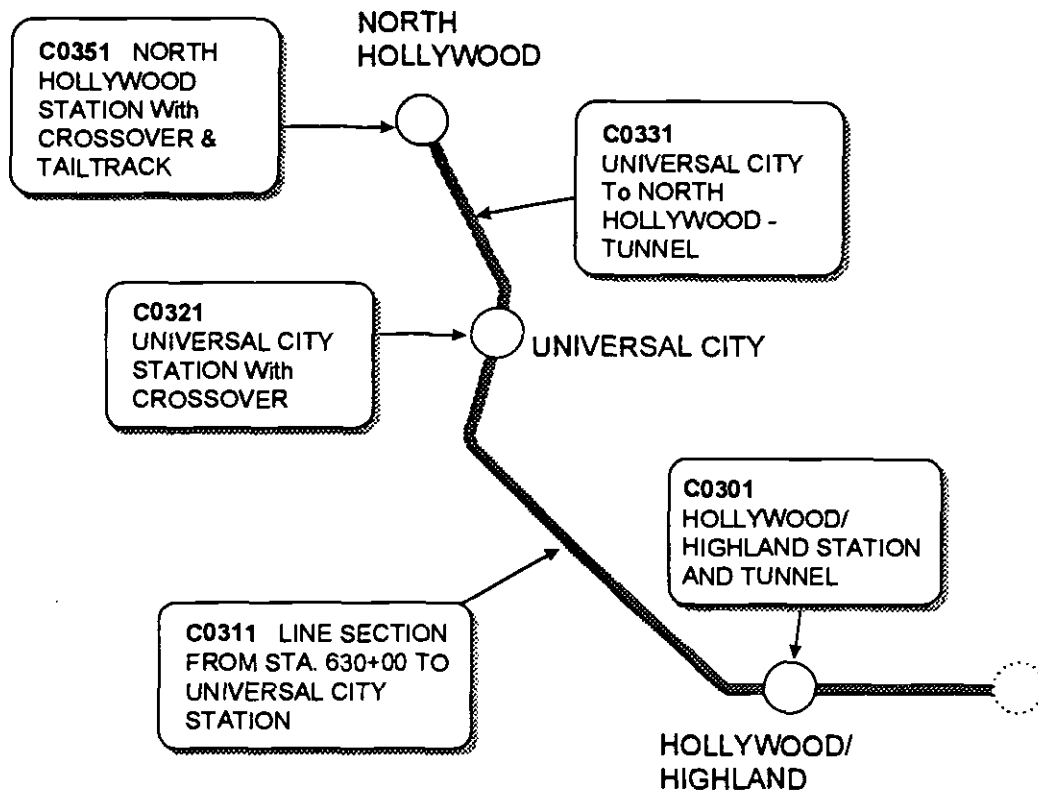
# METRO RED LINE Segment 3 North Hollywood

Monthly Project Status Report

Period Ending - August 1999



## Major Activities - This Period



### SYSTEMWIDE ACTIVITIES:

#### DESIGN ACTIVITIES:

C0322 (Universal City Station Pedestrian Undercrossing) Completed camera ready submittal.

C0352 (North Hollywood Sitework) Completed the repackaging of bid documents requested by the MTA.

C0390 (Miscellaneous Construction) Conformed documents and specifications.

C1326/C3326 (Universal City Station Freeway Overcrossing, Ramps) Submitted the final project report and updated the ROW maps.

### CONSTRUCTION ACTIVITIES:

B620 (Automatic Train Control) Contractor completed installation and testing of communication cable in the tunnels; continued installation of ATC wayside equipment and cable; started operational testing at North Hollywood Station.

B630/H0631 (Traction Power System Installation) Contractor continued DC wayside cable connections at North Hollywood, Universal City and Hollywood/Highland stations. Completed DC equipment and cable testing at C0311 track level rooms and commenced the same at C0301 Hollywood/Highland Station. Completed DC cable pulling at crosspassages 57, 53, and 44. Started bonding (cadwelding) of 34.5KV cable to third rail in both tunnels.

# **METRO RED LINE Segment 3 North Hollywood**

## **Monthly Project Status Report**

**Period Ending - August 1999**



**B645 (TRACS)** Contractor continues work on database, graphic displays and layout development. Fabrication of the remote terminal unit (RTU) cabinets continues and assembly is in progress.

**B646 (Fire and Emergency Management)** Local field acceptance testing (LFAT) and the Fire/Life/Safety change order work (CN-92.01) was completed at North Hollywood Station (C0351). Installation of the change work was completed at mid-vent shaft (A135).

**B710 (Escalators and Elevators)** Work was focused on completing Universal City Station in preparation for final testing and state inspection. Work continued on escalators and elevators at Hollywood/Highland Station and on escalator at North Hollywood Station.

**B795 (Uninterruptible Power Supply)** Commissioned 40KVA unit at Universal City Station. Completed re-fabrication of damaged 80KVA unit for Universal City Station. Continued to charge batteries and perform tests at all stations.

**H0648 (Communication Installation)** Installation of the CCTV camera at Universal City and North Hollywood Stations has been completed. Installation of the F&EM system was completed at Hollywood/Highland and mid-vent shaft (MVS) was completed and is in progress in track level rooms (TLR). Installation of the fire detection and fire suppression equipment is in progress at Hollywood/Highland Station. Installation of the 100-pair cable in the tunnels is now complete. Assembly and wiring of the radio amplifier is in progress at all locations.

**C0301 HOLLYWOOD/HIGHLAND STATION AND TUNNELS COMPLETE:**  
Continued working on punch list items. Demobilized from site.

**C0311 LINE SECTION FROM STATION 630+00 TO UNIVERSAL CITY:**  
Continued working on punch list items. Demobilized from site.

**C0321 UNIVERSAL CITY STATION:**  
Continued air damper and emergency entrance tests.

**C1610 TRACKWORK INSTALLATION:**

Installed precast closure panels at La Brea Shaft and on AR side of North Access Shaft. Removed La Brea Shaft elevator. Started removing sound wall from rail welding site at Chandler. Continued with final cleaning of tunnels.

**MS201 HOLLYWOOD BOULEVARD STREET RESTORATION:**  
Demobilized from site.

**METRO RED LINE Segment 3 North Hollywood**  
Monthly Project Status Report  
Period Ending - August 1999



**Quality Assurance**

**SEGMENT 3**

QAR's Closed 0

QAR's Open 4

QAR Responses Due 2

Current Period Surveillances 0

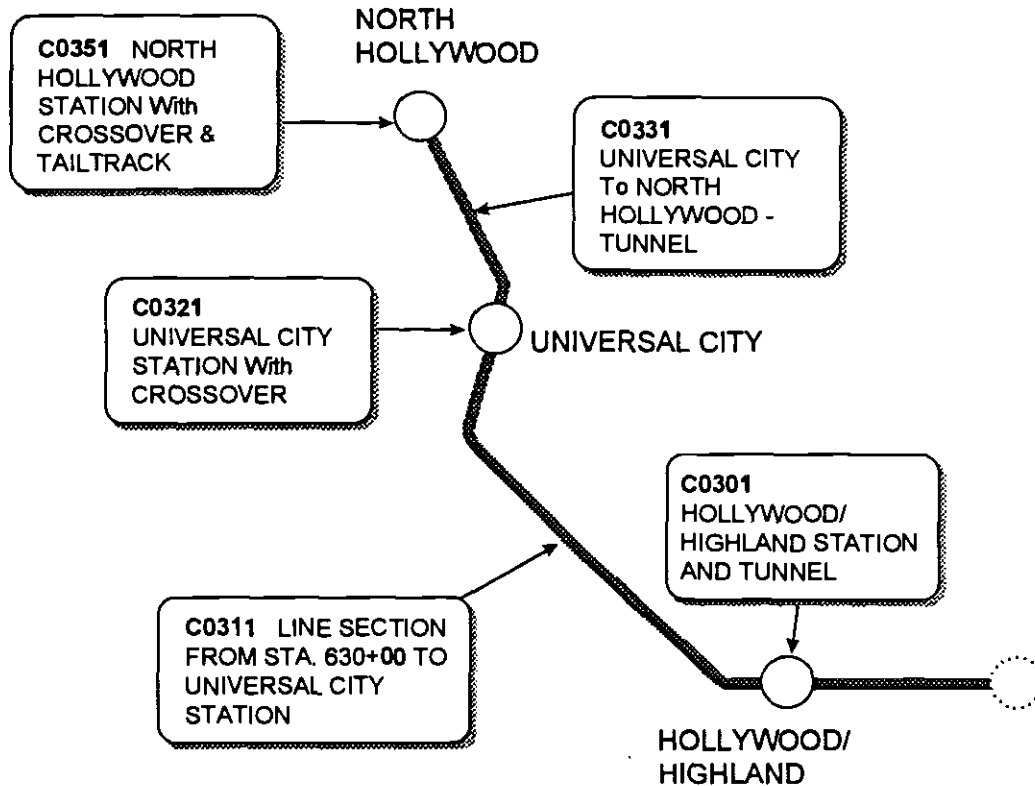
# METRO RED LINE Segment 3 North Hollywood

## Monthly Project Status Report

Period Ending - August 1999



### Major Activities - Next Period



#### SYSTEMWIDE ACTIVITIES:

H0123 (Variable Message Signs) Support proposal effort as required.

#### DESIGN ACTIVITIES:

C0322 (Universal City Station Pedestrian Undercrossing) Continue with the completion of the Addendum #1 and work in Addendum #2.

C1326/C3326 (Universal City Station Freeway Overcrossing, Ramps) Prepare Addendum if required. Support the MTA in the bid process.

C0390 (Miscellaneous Construction) Provide Design support during construction.

C0352 (North Hollywood Sitework) Provide design support during construction.

#### CONSTRUCTION ACTIVITIES:

B620 (Automatic Train Control) Complete critical ATC wayside equipment and cable installation; terminate and test ATC cable; continued operational testing at North Hollywood substation and start at Universal City and mid-vent shaft (C0311) substations.

B630/H0631 (Traction Power System Installation) Complete bonding (cadwelding) of 34.5KV; complete wayside DC system cable to third rail installation and testing; and operation verification testing at North Hollywood Station (C0351). Commission rectifier transformers at all stations.

# **METRO RED LINE Segment 3 North Hollywood**

## **Monthly Project Status Report**

**Period Ending - August 1999**



Complete TPSS system testing prior to energization.

**MS201 HOLLYWOOD BOULEVARD STREET  
RESTORATION:**

Finish punch list items.

**B645 (TRACS) Complete database priority 1, graphic displays and layout development. Continue assembly of RTU circuit boards. Complete factory acceptance tests of the RTU for Hollywood/Highland, Universal City and North Hollywood Stations.**

**B646 (Fire and Emergency Management) Complete local field acceptance testing (LFAT) of base contract work at track level room (TLR), mid-vent shaft and Hollywood/Highland. LFAT of CN-92.01 work at mid-vent shaft and Hollywood/Highland is also scheduled for next period.**

**B710 (Escalators and Elevators) Contractor will complete testing of escalators and elevators at Universal City Station (ready for State inspection). Continue work at Hollywood/Highland and North Hollywood Stations.**

**B795 (Uninterruptible Power Supply) Complete installation of the 80KVA units at Universal City and mid-vent shaft (C0311) substations. Commission 80KVA units at Universal City, North Hollywood and mid-vent shaft (C0311) substations.**

**H0648 (Communications Installation) Complete installation of the fire detection/suppression units at Hollywood/Highland Station and the base contract F&EM system at track level room (TLR). Continue installing cables, ducts, and devices throughout Segment 3 locations, as well as, assembling the radio equipment.**

**C0301 HOLLYWOOD/HIGHLAND STATION AND TUNNELS COMPLETE:**  
Finish punch list items.

**C0311 LINE SECTION FROM STATION 630+00 TO UNIVERSAL CITY:** Finish punch list items.

**C0321 UNIVERSAL CITY STATION:**  
Commission Uninterruptible Power Supply. Finish punch list items and damper tests.

**C1610 TRACKWORK INSTALLATION:**  
Finish cleaning of tunnels. Complete removal of noise wall at Chandler staging area. Install AL precast panels at North Access Shaft. CM to demobilize from field office site.

# METRO RED LINE Segment 3 North Hollywood

## Monthly Project Status Report

Period Ending - August 1999



### Budget/Forecast Variance

Original Scope Activities  
(\$ Millions)

COST ELEMENT	CURRENT BUDGET	CURRENT FORECAST	VARIANCE	August Change in Forecast
PROJECT RESERVE	\$0.4	\$2.6	\$2.3	\$0.0
CONSTRUCTION	\$824.7	\$849.1	\$24.4	(\$0.1)
PROFESSIONAL SERVICES	\$300.8	\$310.9	\$10.1	\$0.5
REAL ESTATE	\$89.0	\$86.3	(\$2.8)	\$0.0
UTILITY/AGENCY FORCE ACCOUNTS	\$26.3	\$26.6	\$0.3	\$0.0
SPECIAL PROGRAMS	\$0.0	\$0.0	\$0.0	\$0.0
PROJECT CONTINGENCY	\$69.6	\$35.3	(\$34.2)	(\$0.4)
PROJECT REVENUE	\$0.0	\$0.0	\$0.0	\$0.0
TOTAL PROJECT	\$1,310.8	\$1,310.8	\$0.0	\$0.0

### Budget/Forecast Variance Analysis

Original Scope Activities

Total Original Scope Commitments through August 1999: \$1,077.5 million.

The Current Budget and Current Forecast totals remain unchanged at \$1,310.8 million.

However, there were a number of Forecast Changes within the Project Elements which were offset by Project Contingency as follows:

Contract C0326 (Freeway Overcrossing, Bus Plaza, Park and Ride, Landscaping, and Lankershim Widening) - Forecast increased by \$1.5 million due to the August 1999 bid opening. The forecast is adjusted to reflect the lowest bid plus a 10% allowance for contingency.

Contract C0311 (Tunnels: Universal City Station to 630+00) - Forecast decreased by \$1.5 million due to a re-evaluation of the Contract Contingency for Unknown Potential Claims based on the advance completion of the work and minimum risk exposure.

Contract B620 (Automatic Train Control) - Forecast decreased by \$1.2 million primarily due to settlement of multiple claims related to contract extension, overhead issues and work accelerations. Additionally, a corresponding reduction to contract contingency related to the claims settlement was realized this period.

Contract H0123 (Variable Message Signs) - Forecast increased \$0.7 million based on the Notice of Award to Steiny & Company, Inc. and an AFE allowance of 10%.

Contract H0648 (Communication Installation) - Forecast increased \$0.4 million primarily due to Final Negotiated Value for Change Notice #3.01 - Resequencing Installation to Support Phase 1 Systems Integrated Testing.

# **METRO RED LINE Segment 3 North Hollywood**

## **Monthly Project Status Report**

**Period Ending - August 1999**



Contract LS999 (Legal Services) - Forecast increased by \$2.4 million this period due to additional requested legal support from outside counsel related to cases currently in litigation. This increase was offset by a decrease of \$2.0 million in Other Unidentified Professional Services and \$0.4 million in Professional Services Project Contingency.



# METRO RED LINE Segment 3 North Hollywood

## Monthly Project Status Report

Period Ending - August 1999



### Budget/Forecast Variance

Additional Locally Funded Activities  
(\$ Millions)

COST ELEMENT	CURRENT BUDGET	CURRENT FORECAST	VARIANCE	August Change in Forecast
CONSTRUCTION	\$1.9	\$0.3	(\$1.6)	\$0.0
PROFESSIONAL SERVICES	\$0.7	\$27.6	\$26.9	\$0.0
UTILITY/AGENCY FORCE ACCOUNTS	\$0.0	\$0.0	\$0.0	\$0.0
SPECIAL PROGRAMS	\$0.0	\$0.9	\$0.9	\$0.0
PROJECT CONTINGENCY	\$0.4	\$0.0	(\$0.4)	\$0.0
PROJECT REVENUE	\$0.0	\$0.0	\$0.0	\$0.0
TOTAL ADDITIONAL LOCALLY FUNDED ACTIVITIES	\$3.0	\$28.7	\$25.7	\$0.0

### Budget/Forecast Variance Analysis

Additional Locally Funded Activities

Total ALFA Commitments through August 1999: \$11.6 million.

"Additional Locally Funded Activities" (ALFA) are defined as Design and Construction activities for new scope elements that are added to the original scope of a project after Project Adoption (approval) by the Board of Directors. The Baseline Project Budget is based on the original scope, thus costs for new requirements are identified and managed separately as ALFA. ALFA work scope may include transit enhancements, new legislative requirements, Non Revenue Connectors, Metro A-R-T Program and other Board or FTA requirements not originally envisioned at Project Adoption. Unforeseen or differing site conditions are not considered ALFA. Lastly, ALFA categorized work scope are funded by local grant sources but may later be subject to Federal funding upon FTA concurrence or agreement; particularly if the ALFA activity was an FTA requirement. The Current Budget contains approximately \$3.0 million in ALFA categories under the Construction, Professional Services and Contingency elements.

Contract S019 (MTA Project Administration) - The current cumulative ALFA forecast represents the portion of the projected estimate at completion costs in excess of the budgeted \$62.0 million carried under "Original Scope". The total ALFA overrun is currently projected at \$27.0 million with the total Administration costs cumulatively forecast at \$89.0 million for the August 1999 period.

# METRO RED LINE Segment 3 North Hollywood

## Monthly Project Status Report

Period Ending – August 1999



### STATUS OF FUNDS ANTICIPATED

- FTA SECTION 3:** MTA submitted a grant application for \$61,624,426 of Section 3 Funds in January 1999 for the North Hollywood Project. Grant application was approved on September 9, 1999. MTA submitted a grant application for \$7,940,000 of Section 3 Funds in January 1999 for the Reevaluation / Major Investment Study and Draft SEIS/EIR, and Conceptual Engineering of Cost Effective Alternatives for the East Side and the Mid City/Westside Transit Corridor studies. LONP approval was obtained on June 15, 1999 and grant approval is expected to be approved in September 1999.
- FTA SECTION 9  
FED ISTEA/CMAQ:** Grant award was approved on August 27, 1997 for FY 96 CMAQ \$20 million for the East Side Project. Funds will not be available for drawdown until a revised Full Funding Grant Agreement (FFGA) is approved by FTA. MTA submitted a grant application on March 31, 1998 for \$20.7 million of CMAQ funds to be allocated to the North Hollywood Project. Grant has been awarded and executed on February 8, 1999. Funds are available for drawdown.
- FTA SECTION 9  
FED ISTEA/STP:** Grant award for \$75 million of STP funds was approved on August 27, 1997. Funds are now available for drawdown with the exception of \$25 million allocated to the East Side Project. These funds will not be available for drawdown until a revised FFGA is approved by FTA. On July 13, 1999 MTA received \$124,344,400 of Section 9 STP funds for Segment 3 North Hollywood Project.
- STATE SHA:** MTA submitted on October 27, 1998 an allocation request to the CTC for \$6.5 million of SHA funds for the North Hollywood Project. CTC approved the allocation request in November 1998 but changed the color of money: \$5,754,400 STP - \$745,600 SHA. CTC approved in December 1998 an allocation request for \$15,410,000 of SHA funds. MTA received in February 1999 a fund transfer agreement from Caltrans for \$745,600 and received the \$15.41 million fund transfer agreement from Caltrans for \$745,600 and receive a \$15.41M fund transfer agreement in July 1999. Both fund transfer agreements were executed in July 1999.
- CITY OF LA:** A fund transfer agreement was executed on July 24, 1997 for a total amount of \$200 million. The first installment totaling \$55.446 million has been drawn down.
- BENEFIT  
ASSESSMENT:** Funds are no longer expected due to passage of Prop. 218 (Right to Vote on Tax Initiatives).

**METRO RAIL RED LINE NORTH HOLLYWOOD PROJECT**  
(IN MILLIONS OF DOLLARS)

**AUGUST 1999**

**STATUS OF FUNDS BY SOURCE**

SOURCE	(A) ORIGINAL BUDGET	(B) TOTAL FUNDS ANTICIPATED (1)	(C) TOTAL FUNDS AVAILABLE	(D) \$	(D/B) COMMITMENTS %	(E) \$	(E/B) EXPENDITURES %	(F) BILLED TO FUNDING SOURCE \$	(F/B) %
<b>ORIGINAL SCOPE:</b>									
FTA-SECTION 3	\$681.037	\$544.830	\$374.237	\$479.884	88%	\$422.100	77%	\$374.237	69%
FTA-SECTION 3 DEFERRED LOCAL SHARE		\$138.207	\$93.559	\$119.965	88%	\$105.525	77%	\$93.559	69%
FED ISTEA STP (STATE)	\$0.000	\$174.344	\$174.344	\$78.440	44%	\$82.241	36%	\$50.000	28%
FEO ISTEA STP/CMAQ (REGIONAL)	\$25.000	\$71.358	\$71.358	\$71.358	100%	\$71.358	100%	\$71.358	100%
FEO ISTEA RSTP DEFERRED LOCAL SHARE		\$9.245	\$9.245	\$9.245	100%	\$9.245	100%	\$9.245	100%
SB 1995 TRUST FUND	\$53.000	\$68.690	\$68.690 (2)	\$68.690	100%	\$68.690	100%	\$68.690	100%
STATE SHARE/ARTICLE XIX	\$115.000	\$64.811	\$49.401	\$64.811	100%	\$64.541	100%	\$64.541	100%
STATE PROP 116	\$0.000	\$57.652	\$57.652	\$57.652	100%	\$57.652	100%	\$57.652	100%
STATE TSM Match	\$0.000	\$10.537	\$10.537	\$10.537	100%	\$10.537	100%	\$10.537	100%
STATE FLEXIBLE CONGESTION RELIEF	\$0.000	\$28.000	\$28.000	\$28.000	100%	\$28.000	100%	\$28.000	100%
CITY OF LA	\$101.500	\$90.000 (3)	\$58.000	\$58.000	64%	\$58.000	64%	\$58.000	64%
PROP C	\$318.185	\$59.148	\$43.719	\$43.719	74%	\$43.719	74%	\$43.719	74%
BENEFIT ASSESS. DISTRICT	\$17.100	\$0.000 (5)	\$0	\$0	0%	\$0	0%	\$0	0%
<b>TOTAL</b>	<b>\$1,310.822</b>	<b>\$1,310.822</b>	<b>\$1,034.742 (4)</b>	<b>\$1,084.281</b>	<b>83%</b>	<b>\$997.608</b>	<b>76%</b>	<b>\$925.538</b>	<b>71%</b>
<b>OTHER LOCALLY FUNDED ACTIVITIES:</b>									
PROP C (ARTWORK)	\$0.000	\$2.435	\$0.954	\$1.487	60%	\$0.954	39%	\$0.954	39%
PROP C (NON-REV. CONNECTOR)	\$0.000	\$0.285	\$0.003	\$0.077	27%	\$0.003	1%	\$0.003	1%
<b>TOTAL</b>	<b>\$0.000</b>	<b>\$2.720</b>	<b>\$0.957</b>	<b>\$1.544</b>	<b>57%</b>	<b>\$0.957</b>	<b>35%</b>	<b>\$0.957</b>	<b>35%</b>

(1) Based on Current Budget. Allocation by funding source based on Dec 98 funding plan.

(2) Funds available have been reduced by \$7.3M due to usage of interest proceeds to other programs.

(3) Assumes the City of LA will contribute 7% of the total project cost.

(4) When funds available are lower than expenditures, Treasury uses the cash pool account to pay the unfunded balance. Once funds become available, Grant Accounting bills the appropriate funding source and Treasury reimburses the cash pool account.

(5) Benefit Assessment District funds are no longer expected due to passage of Prop 208 (Right to vote on tax initiatives)

NOTE: EXPENDITURES ARE CUMULATIVE THROUGH JULY 1999.

**METRO RED LINE Segment 3 North Hollywood**  
Monthly Project Status Report  
Period Ending - August 1999

**FINANCIAL DETAIL**  
**METRO RED LINE NORTH HOLLYWOOD PROJECT**  
(IN MILLIONS OF DOLLARS)



ES-10

METRO RAIL RED LINE TOTAL SEGMENT 3 PROJECT  
(IN MILLIONS OF DOLLARS)

AUGUST 1999

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 \$ %
ORIGINAL SCOPE:						
FTA SECTION 3	\$1,317.812	\$1,133.192	\$438.097	\$543.724 48%	\$485.960 43%	\$438.097 39%
FTA-SECTION 3 DEFERRED LOCAL SHARE	\$98.878	\$293.298	\$109.824	\$138.930 48%	\$121.490 43%	\$109.524 39%
FED ISTEA SHIP (STATE)	\$25.000	\$199.344	\$174.344	\$78.440 38%	\$82.241 31%	\$50.000 25%
FED ISTEA SHIP/CMAG (REGIONAL)	\$156.617	\$134.771	\$72.613	\$72.613 54%	\$72.613 54%	\$72.613 54%
FED ISTEA RSTP DEFERRED LOCAL SHARE	\$9.875	\$17.461	\$9.408	\$9.408 54%	\$9.408 54%	\$9.408 54%
SB 1995 TRUST FUND	\$53.000	\$68.690	\$68.690	\$68.690 100%	\$68.690 100%	\$68.690 100%
STATE SHAWARTICLE XIX	\$165.000	\$104.611	\$49.401	\$64.611 62%	\$64.541 62%	\$64.541 62%
STATE PROP 116	\$87.300	\$57.652	\$57.652	\$57.652 100%	\$57.652 100%	\$57.652 100%
STATE FLEXIBLE CONGESTION RELIEF	\$26.000	\$50.000	\$0.000	\$0.000 0%	\$0.000 0%	\$0.000 0%
STATE TSM Match	\$11.142	\$17.042	\$10.537	\$10.537 62%	\$10.537 62%	\$10.537 62%
STATE CTIP	\$0.000	\$26.000	\$26.000	\$26.000 100%	\$26.000 100%	\$26.000 100%
CITY OF LA	\$136.244	\$163.444	\$58.000	\$58.000 35%	\$58.000 35%	\$58.000 35%
PROP C	\$677.318	\$789.047	\$117.840	\$149.272 19%	\$117.840 15%	\$117.840 15%
BENEF ASSESS. DISTRICT	\$17.100	\$0.000	\$0.000	\$0.000 0%	\$0.000 0%	\$0.000 0%
TOTAL	\$2,781.086	\$3,042.752	\$1,190.106	\$1,271.077 42%	\$1,152.972 38%	\$1,080.902 36%
OTHER LOCALLY FUNDED ACTIVITIES:						
PROP C (ARTWORK)	\$0.000	\$2.435	\$0.954	\$1.467 60%	\$0.954 39%	\$0.954 39%
PROP C (NON-REV. CONNECTOR)	\$0.000	\$0.285	\$0.003	\$0.077 27%	\$0.003 1%	\$0.003 1%
TOTAL	\$0.000	\$2.720	\$0.957	\$1.544 57%	\$0.957 35%	\$0.957 35%

(1) BASED ON CURRENT BUDGET

NOTE: EXPENDITURES ARE CUMULATIVE THROUGH JULY 1999.

**METRO RED LINE Segment 3 North Hollywood**  
Monthly Project Status Report  
Period Ending - August 1999

FINANCIAL DETAIL  
METRO RED LINE TOTAL SEGMENT 3 PROJECT  
(IN MILLIONS OF DOLLARS)



# METRO RED LINE Segment 3 North Hollywood

## Monthly Project Status Report

Period Ending - August 1999



### Schedule

	Current Status	Change from Last Month
Current ROD	Jun 2000	+13 days
Design Progress	100.0%	+0.2%
Critical Path Float	-28 days	-18 days
Construction Progress	85.2%	+2.0%

### Current Critical Path Analysis

- Planned ROD: May 17, 2000  
(Revenue Operation Date determined by MTA)
- Forecast ROD: June 14, 2000  
(Revenue Operation Date determined by Master Schedule)
- FFGA ROD: December 2000  
(Revenue Operation Date determined by Federal mandate)

The August 1999 Master Schedule shows the project behind schedule with a forecast Revenue Operations Date of June 14, 2000. The current critical path for the project runs through B646 Fire and Emergency Management, H0648 Communications Installation, Phase 1 testing at C0311, C0301, Phase-2 Testing, Pre-Revenue and ROD. The current delay is reflective of work associated with the Emergency Management Panel and the Programmable Logic Controller at C0301. This delays local field acceptance tests (LFATS) that are performed through these two devices. Phase-1 testing is dependent upon completion of the LFATS and Phase-2 testing is dependent upon Phase-1 testing. The sequencing of Phase-1 testing at C0301 is under review to develop workarounds. The RAG test teams are projected to be fully staffed by mid-September.

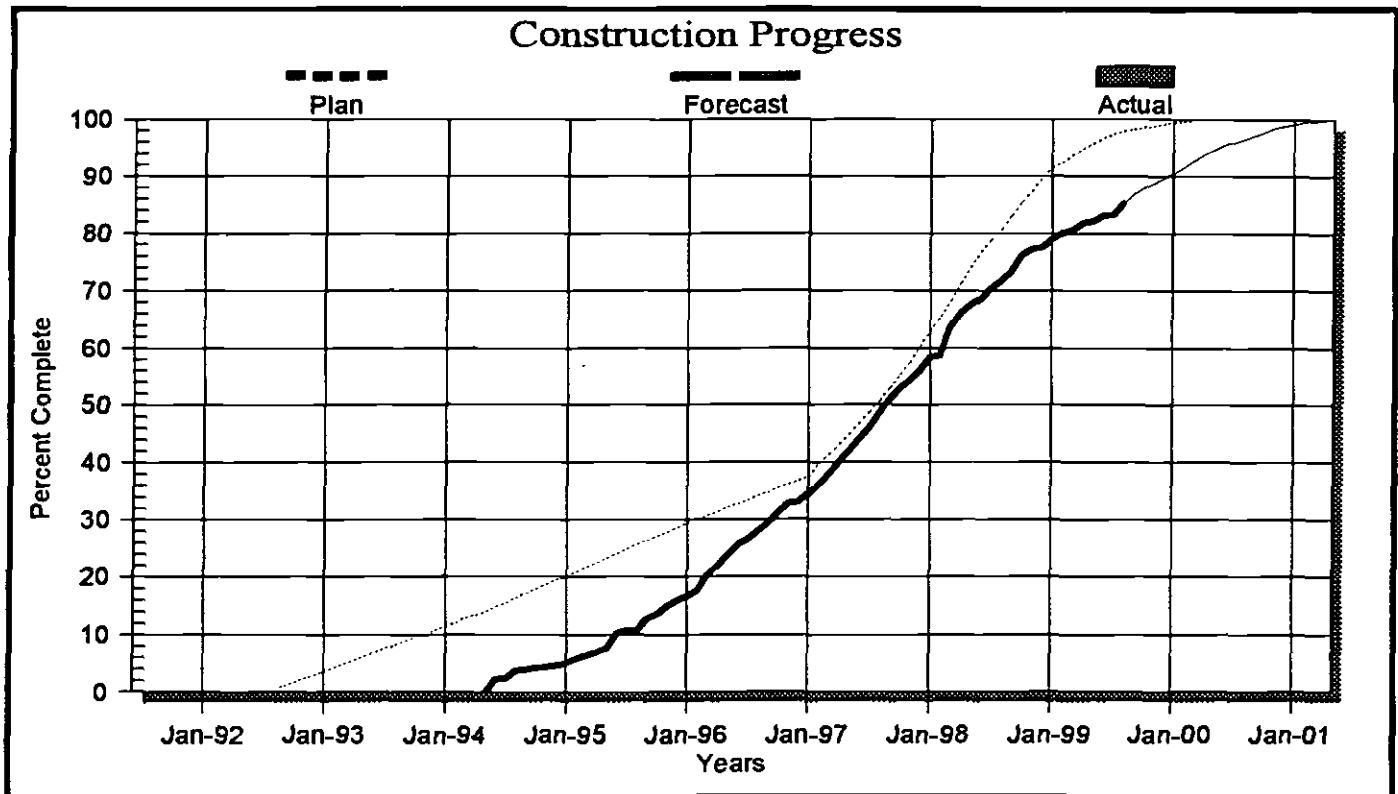
B645 Transit Automatic Controls and SCADA (TRACS) has moved to the secondary critical path as progress has been made on the software development and screen displays. The first B645 download (Priority-1) is on schedule for October 15, 1999.

B620 Automatic Train Control remains on the secondary critical path until ATC equipment, cables, cross bonding, and testing is complete which affects the start of dynamic testing.

# METRO RED LINE Segment 3 North Hollywood

## Monthly Project Status Report

Period Ending - August 1999



## Construction Progress Analysis

The overall construction progress through August 1999 is 85.2% complete.

Contract B620 (Automatic Train Control) contractor completed installation of the 34.5 KV cable and fiber optic on July 13, 1999 and installation of communication cable in the AR tunnel. Continued ATC cable and wayside equipment installation from North Hollywood to Universal City stations.

Contract B645 (Transit Automatic Controls - TRACS) contractor continued to develop database, graphic displays and layout. Remote Terminal Unit cabinets continued to be fabricated.

Contract C0301 (Hollywood/Highland Station) commissioned Uninterruptible Power Supply.

Contract C0311 (Line Section from Universal City Station to Station 630+00) completed demobilization.

Contract C1610 (Trackwork Installation) Milestone #1, Contract Completion, met on July 13, 1999.

Contract H0631 (Traction Power System Installation) contractor completed installation of the DC rectifier and transformer at the Hollywood/Highland Station. DC equipment and cable testing is complete at the Universal City Station. The contractor has completed installation of the DC rectifier and rectifier transformer at the North Hollywood Station.

Contract H0648 (Communications Installation) contractor completed installation for the fire suppression system at the Universal City Station and completed installation of the remaining Fire and Emergency Management

**METRO RED LINE Segment 3 North Hollywood**  
**Monthly Project Status Report**  
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system (F&EM) at the North Hollywood Station. Installation of the closed circuit television device at North Hollywood Station was completed and is in progress at the Universal City Station. The contractor at the Hollywood/Highland Station completed installation of the TC&C room cabinets and smoke detectors.

Contract MS201 (Hollywood Blvd. Restoration) Completed terrazzo finish work on Hollywood Blvd. and made Substantial Completion on July 9, 1999.

**METRO RED LINE Segment 3 North Hollywood**  
**Monthly Project Status Report**  
**Period Ending - August 1999**



## Construction Safety Statistics

Project-to-Date-Rates	Current Status	Change from Last Month
<b>Recordable Injury Rate</b>		
National Average	10.6	
Project Rate (Cum.)	15.2	-0.1
<b>Lost Time Rate (Freq.)</b>		
National Average	4.2	
Project Rate (Cum.)	1.9	none

**Recordable Injury Rate:** The number of recorded injuries excluding simple first aid or minor medical treatment, per 100 man years.

**Lost Time Incident Rate:** The number of injuries resulting in days away from work, per 100 man years.

## Construction Safety Summary

The project-to-date lost time injury rate continues to be less than one-half the national average of 4.2.

The project completed over 57,000 work hours during July. To date, the project has completed over 8,400,000 work hours.

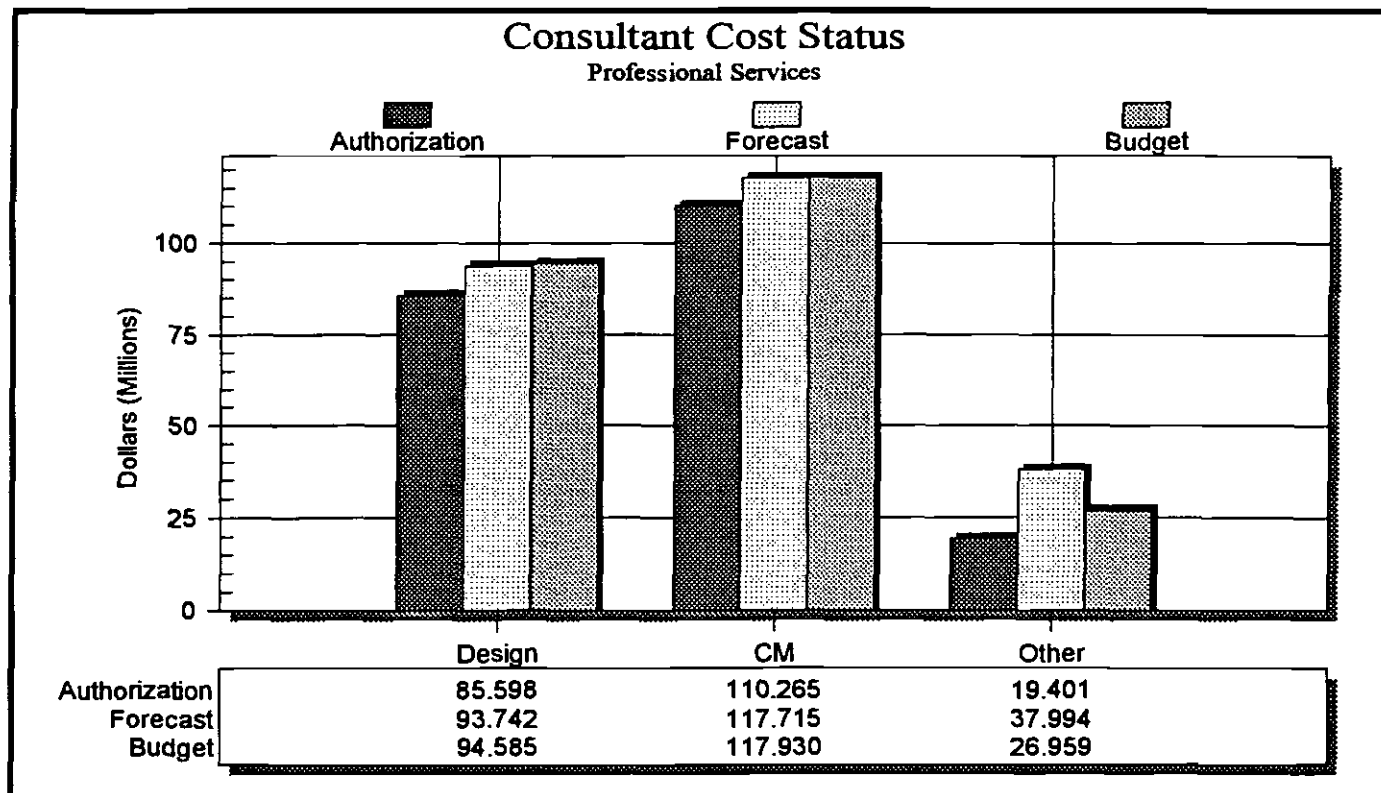
Statistics reflect injuries through July 1999.



# METRO RED LINE Segment 3 North Hollywood

## Monthly Project Status Report

Period Ending - August 1999



## Professional Services Cost Analysis

The authorization and forecast for the "Design," "Construction Management" and "Other" professional services did not change significantly this period. The changes represent executed change orders that were processed during the period. Authorizations will remain significantly below the budget and forecast until the necessity and scope of future services are finalized.

The forecast for the "Other" professional services is \$18.6 million above the current authorization due to pending and potential contract work orders, amendments and other cost exposures identified to date. The majority of the unknowns involve legal services. The services in this category include the following: Configuration Management, Systems Engineering and Analysis, Rail Vehicle Procurement Services, Environmental Services, Project Management Assistance, Legal Services, Construction Support Services, Labor Compliance Monitoring, and Security Staffing.

Contract LS999 (Legal Services) - Forecast increased by \$2.4 million this period due to additional requested legal support from outside counsel related to cases currently in litigation. This increase was offset by a decrease of \$2.0 million in Other Unidentified Professional Services and \$0.4 million in Professional Services Project Contingency.

# **METRO RED LINE Segment 3 North Hollywood**

## **Monthly Project Status Report**

**Period Ending - August 1999**



### **Management Issues**

**Ongoing Item (Date initiated: April 1999)**

#### **UNIVERSAL CITY SITE RESTORATION CONTRACTS**

##### **Concern/Impact**

Delays to the award of the Universal City Site Restoration contracts may impact the completion of the North Hollywood Extension project scope by the December 2000 FFGA required completion date.

##### **Status/Action**

A schedule was developed for the award and NTP of Contract C0326 to minimize the impact to the FFGA requirements. This included aggressive intermediate schedule milestones to support ROD in May 2000. The Lankershim underpass from the Universal City contract was issued for bid in order to minimize construction impacts to their operations. The current bid and construction schedule is being reviewed and discussed with Universal City.

**Ongoing Item (Date initiated: March 1999)**

#### **SYSTEMS INTEGRATION TESTING**

##### **Concern/Impact**

Additional delays to the revised testing plan have impacted ROD due to management resources working for an extended period on Segment 2B and design changes to Contracts B645, B646 and H0648.

##### **Status/Action**

Phase 1 testing began July 19, 1999 at Universal City Station with limited resources. As previously scheduled, phase 1 testing at Universal City Station was scheduled to complete by August 20, 1999 but due to the lack of progress, it is now projected to complete on September 20, 1999. The original plan by the Rail Activation Group (RAG) was to have three test teams but only two are currently available to perform tests. In order to meet ROD of May 17, 2000, it is projected that five test teams are required. The additional test teams will compensate for the overlap in testing and to recover delays.

**METRO RED LINE Segment 3 North Hollywood**  
**Monthly Project Status Report**  
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Ongoing Item (Date initiated: February 1999)

**CONTRACT B645 TRACS DELAYS**

**Concern/Impact**

Lack of sufficient resources by the contractor has impacted the start of engineering and software development. Delays associated with this lack of resources and fire/life/safety design changes may impact the start of Phase II systems integration testing.

**Status/Action**

The Project Office has been meeting with Syseca management and principals to develop a mitigation schedule to meet the requirements to achieve planned ROD. Syseca submitted a July 1999 schedule update with commitments to meet the planned ROD. The Project Office continues to require documentation (weekly) on how Syseca monitors progress toward the need dates.

Ongoing Item (Date initiated: March 1998)

**PROJECT AGENCY COST FORECAST**

**Concern/Impact**

Project administration costs have increased significantly because of the higher than originally budgeted overhead allocation rate being applied by Finance to the rail construction projects. Furthermore, levels of MTA staff assigned to the North Hollywood project have increased in areas such as Procurement and Management Audit Services in order to comply with various new legislative and administrative requirements. The result of these two trends is a substantial impact (\$27 million) to the forecasted cost to complete the project.

**Status/Action**

The project team is achieving reductions to this potential cost impact by focusing and controlling monthly staffing charges and allocations to the North Hollywood project. Presently, an increase to the project budget is not necessary since the projection of future costs associated with the above issues are subject to considerable variation over the period to complete and close out this project.