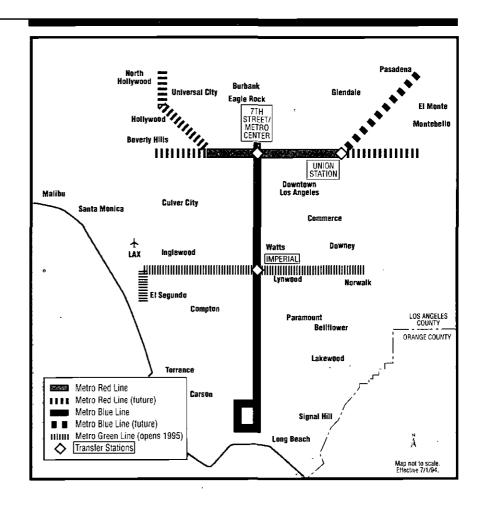
MTA METRO CONSTRUCTION



Executive Report Rail Program Status



RAIL PROGRAM STATUS SUMMARY

THE LOS ANGELES COUNTY
METROPOLITAN TRANSPORTATION AUTHORITY
RAIL CONSTRUCTION DIVISION

RAIL PROGRAM SUMMARY

78.9%

3%

100%

98%

99.1%

90.8%

62%

RAIL PROGRAM STATUS SUMMARY

Metro Pasadena Blue Line

Cost Status (\$000)

Original Budget 841.000

Expended to Date 134,374*

Current Budget 841,000

Schedule Status: Construction -

Revenue Operations Date:

November 1997 Original June 2002 Revised

Metro Green Line (Budget and Forecast excludes North Coast Segment)

Project Progress

Actual:

Actual:

Actual:

Project Progress

Actual:

Final Design

Cost Status (\$000)**Project Progress**

671,000 Original Budget

Expended to Date 620,972* Design

717,802 Actual: **Current Budget**

Construction Schedule Status Revenue Operations Date:

Original October 1994 Forecast May 1995

Metro Red Line Segment 1

Cost Status (\$000)**Project Progress**

Original Budget 1,249,900

Design Expended to Date 1,396,372*

Current Budget 1,450,019 Actual: 100%

Schedule Status Construction

Revenue Operations Date: Actual: 100%

Original April 1992 Actual January 1993

Metro Red Line Segment 2

Cost Status (\$000)

Original Budget 1,446,432

986.242* Expended to Date

Design **Current Budget** 1,517,657

Actual: Construction

Schedule Status: Revenue Operations Dates: Wilshire Vermont/Hlywd

Original Jul '96 Sep '98

Mar '99 Forecast May '96

Metro Red Line Segment 3 - North Hollywood Extension

Cost Status (\$000)**Project Progress**

Original Budget 1,310,822

Expended to Date 235,618* Design

Current Budget 1,313,848

Actual: Construction Schedule Status

Revenue Operations Date: Actual: 10.6%

2000 Original May 2000 **Forecast** September

*Expenditure data through July 1995

0%

0%

RAIL PROGRAM STATUS SUMMARY

Metro Red Line Segment 3 - Mid-City Extension

Cost Status (\$000) Project Progress

Original Budget 490,663 Suspended for Reassessment

Expended to Date 10,058* Design

Current Budget 490,663 Actual: 31%

Schedule Status Construction

Revenue Operations Date: Actual:

Original TBD Forecast TBD

Metro Red Line Segment 3 - East Side Extension

Cost Status (\$000) Project Progress

Original Budget 979,601

Expended to Date 11,810* Final Design

Current Budget 979,601 Actual: 2%

Schedule Status Construction

Revenue Operations Date:

Original November 2002 Forecast July 2003

Vehicle Acquisition Project

Cost Status (\$000) Project Progress

Original Budget 257,597 Design

Expended to Date 57,967* Actual: 6%**

Current Budget 257,597 Manufactured

Schedule Status: Actual: 6%**

Delivery of Final Cars:

Original November 1997 ** Based on Milestone Payments

Forecast November 1999

* Expenditure data through July 1995

Actual:

METROPOLITAN TRANSPORTATION AUTHORITY - CONSTRUCTION DIVISION PROJECT COST REPORT - TOTAL RAIL PROGRAM SUMMARY BY COST ELEMENT

STATUS DATE: 08/25/95

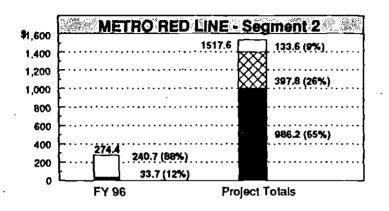
(IN THOUSANDS)

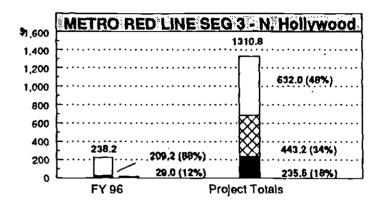
PROJECT: TOTAL RAIL PROGRAM

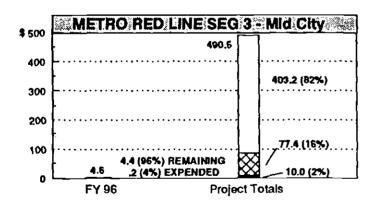
ELEMENT	BUE	GET	COMMI	TMENTS	INCURR	ED COST	EXPEN	DITURES	CURRENT	VARIANCE
DESCRIPTION	ORIGINAL (1)	CURRENT (2)	PERIOD (3)	TO DATE (4)	PERIOD (5)	TO DATE (6)	PERIOD (7)	TO DATE (8)	FORECAST (9)_	(9-2) (10)
T CONSTRUCTION	5,153,508	5,242,908	19,392	3,507,129	22,268	2,525,149	17,141	2,459,678	5,063,110	(179,798)
S PROFESSIONAL SERVICES	1,685,530	1,985,475	9,942	1,442,328	8,428	1,267,166	8,030	1,270,536	1,980,244	(5,231)
R REAL ESTATE	480,002	549,060	2,022	383,392	1,759	384,326	1,771	384,265	501,331	(47,729)
F UTILITY/AGENCY FORCE ACCOUNTS	146,280	146,937	2,725	125,960	1,553	104,732	1,553	104,212	140,546	(6,390)
D SPECIAL PROGRAMS	11,044	20,864	(68)	5,647	0	4,537	9	4,573	15,867	(4,997)
C CONTINGENCY	560,118	448,456	0	1	1	2	1	1	353,951	(94,504)
A PROJECT REVENUE	(18,115)	(36,585)	0	(1,538)	(2)	(7,144)	(5)	(8,610)	(31,874)	4,711
PROJECT GRAND TOTAL	8,018,367	8,371,206	34,141	5,463,067	34,009	4,278,769	28,500	4,214,658	8,037,267	(333,939)

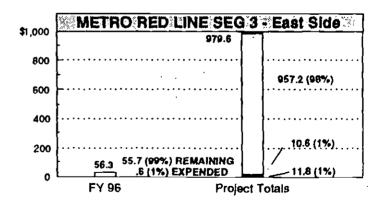
NEW REQUIREMENTS	BUD	GET	COMMI	TMENTS	INCURR	ED COST	EXPEND	DITURES	CURRENT	VARIANCE
DESCRIPTION	ORIGINAL (1)	CURRENT (2)	PERIOD (3)	TO DATE (4)	PERIOD (5)	TO DATE (6)	PERIOD (7)	TO DATE (8)	FORECAST (9)	(9-2) (10)
T CONSTRUCTION	0	50,876	(1,346)	48,797	(241)	14,296	787	17,704	61,451	10,575
S PROFESSIONAL SERVICES	0	19,635	0	17,821	(52)	9,791	(52)	9,793	19,827	192
R REAL ESTATE	. 0	0	0	1	0	3	0	3	1	1
F UTILITY/AGENCY FORCE ACCOUNTS	0	1	0	0	0	0	0	0	0	(0)
D SPECIAL PROGRAMS	0	20	0	20	0	21	0	21	20	0
C CONTINGENCY	0	3,720	0	0	0	0	0	0	2,683	(1,037)
A PROJECT REVENUE	0	o	o	0	0	0	0	o	0	0
NEW REQ. SUBTOTAL	0	74,251	(1,346)	66,641	(293)	24,148	737	27,557	83,983	9,731
PROJECT GRAND TOTAL	8,018,367	8,445,457	32,794	5,529,709	33,716	4,302,917	29,237	4,242,215	8,121,250	(324,208)

BUDGET STATUS - August 25, 1995 (in \$ Millions)



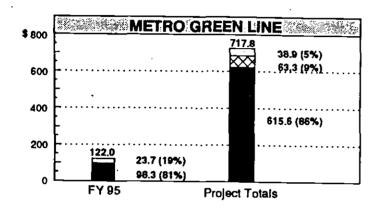


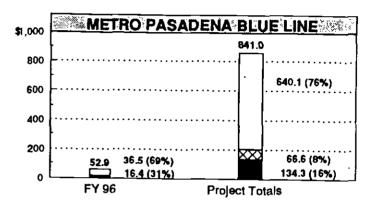


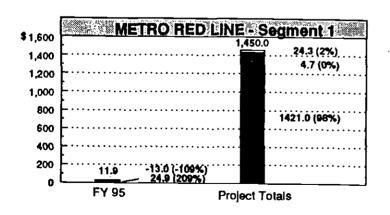


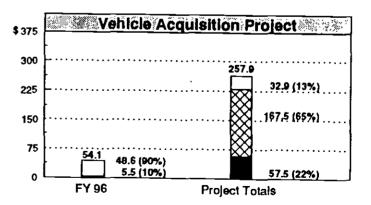
Actual Spent Encumbered Remaining Budget

BUDGET STATUS - August 25, 1995 (in \$ Millions)



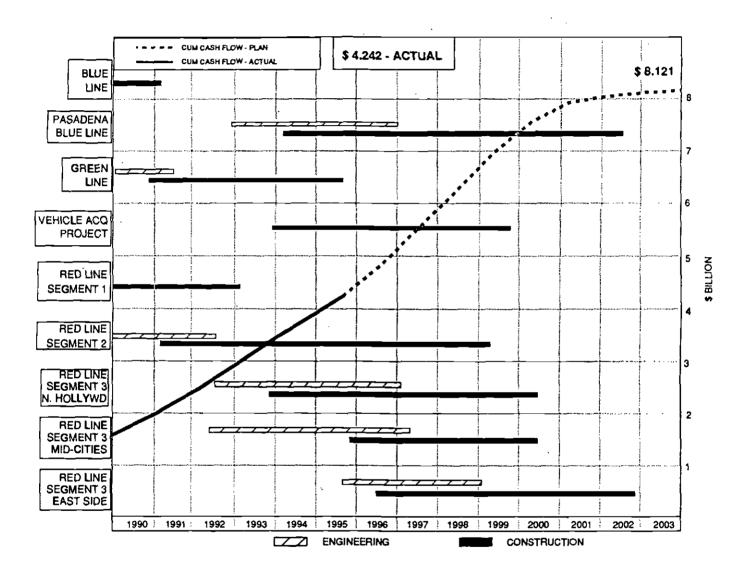






Actual Spent Encumbered Remaining Budget

Figure 1 - Rail Construction Plan



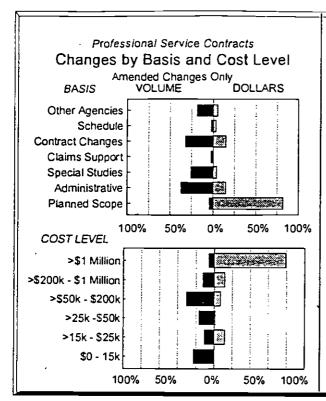
METROPOLITAN TRANSPORTATION AUTHORITY FUNDING SOURCES

(IN MILLIONS)

AUGUST 1995

	METRO		PASAD BLUE I	ENA	METRO	GREEN NE	METRO RI		METRO RE SEG 2		METRO RE SEG 3 -	D LINE		ED LIN						
	3		3	% <u>.</u>	*	*	\$	*	\$	-	\$.	NH N	8	3 - MC	\$	3 - ES	PROJ	EC1	PROG	T W
FTA-SECTION 3							605.3	42	667.0	44	681.0	52	242.6	49	492.9	50		_~_	2686.8	32
FTA - DTHER	<u> </u>	ļ		1													11.9	5	11.9	,
ISTEA-FED SURFACE TRANSIT PROGRAM)									52.1	3	69.1	5	40.0	8	25.0	3	84.0	33	270.2	:
FED-ISTEA STP/CMAQ (REGIONAL)		<u></u>].					2.5	0	39.9	3	40.4	8	, 86.1	9	5.1	2	175.0	2
FTA-SECTION 9					1		90.6	8											90.6	,
STATE		ļi	337.8	40	108.4	15	210.3	15	133.0	9	45.9	3			15.0	2	33.5	13	882.0	10
STATE TSM MATCH											3.2	0	7.2	1	11.1	1			21.5	(
SB 1995 TRUST FUND		'		١				'			75.0	8							75.0	,
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					195.4	15	151.6	31	349.1	36	122.1	47	1721.6	20
PROP C (AMERICAN DISABILIT ACT)					5.99	1			5.9	0									11.9	,
CITY OF LOS ANGELES	,						34.0	2	96.0	5	190.7	15	9.0	2	0.3	0			330.0	4
BENEFIT ASSESSMENT							130.3	9	58.0	4	13.5	1							201.8	;
COST OVERRUN ACCOUNT							200.1	14											200.1	;
TOTAL	677.2	100	841 0	100	717.8	100	1450.1	100	1517.5	100	1313.7	100	490.7	100	979.5	100	257.7	100	8445.3	100

CONSISTS OF LIGHT RAIL LINE (\$847) AND MC-6 WORK (\$30).
 LRT PORTION INCLUDED IN BLUE LINE FORECAST,
 Note: Data reflects current budget.



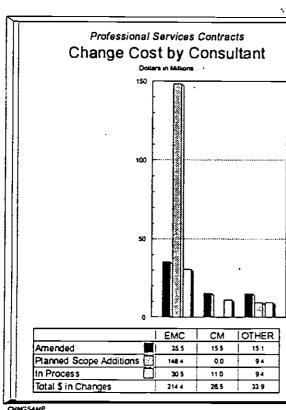
CHANGE BASIS ANALYSIS

Changes due to Outside Agencies account for approximately 15% or 78 of the 511 Consultant Change Requests overall. An example would be the redesign of the Chinatown Aerial Structure on the Pasadena Line. The redesign was primarily due to the January 17 earthquake requiring the revision of the existing seismic criteria. The revision provided for a safer aerial structure which in turn promoted community harmony.

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 \$218M of a total change cost of \$241M. This equates to 18% of the total change volume or 96 of 511 total changes.

The MTA Project team reviews all CCR's yet only has authority to sign for a small portion (9%) of the overall cost



PROFESSIONAL SERVICES CHANGE ANALYSIS

MTA plans to bring the following Amendments (AMTs) before the MTA Board at the September MTA Board Meeting:

EMC Amendment 9 to Contract Work Order (CWO) #003, Amendment 6 to CWO #004, Amendment 2 to CWO #025, and Amendment 5 to CWO #021.

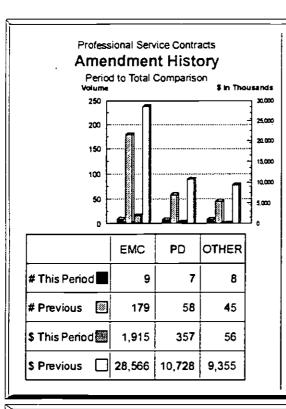
Obrien-Krietzberg (OKA) Amendment 9

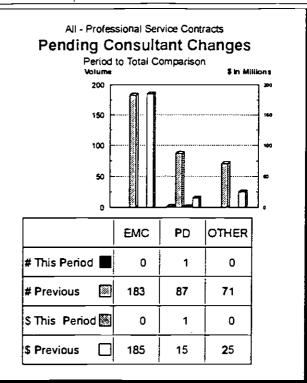
Parsons-Dillingham (PD) Amendment 20

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.

CHNGSAMP





CONSULTANT CHANGE REQUEST ANALYSIS

18 Advanced Work Authorization's (AWA) were assigned this period with a total not-to-exceed obligation of \$719K.

Amendments approved this period as follows:

Amendment 3 to EMC CWO #027 approved amending 1 CCR at \$933K.

Assigned Not Submitted CCR's dropped from 59 last period to 15 this period a 75% reduction.

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

18 new changes were submitted this period of which 1 is estimated at over \$200,000: R81-E0070-425 - B251 Re-Packaging - CCR will be included in the Look Ahead report as part of the Construction Committee meeting (09/14/95) package.

MTA rejected/cancelled 8 CCR's this period with a cumulative ROM value of \$988K.

CHNGSAM

Figure 6 - Cost Performance Relative to Corporate Goals

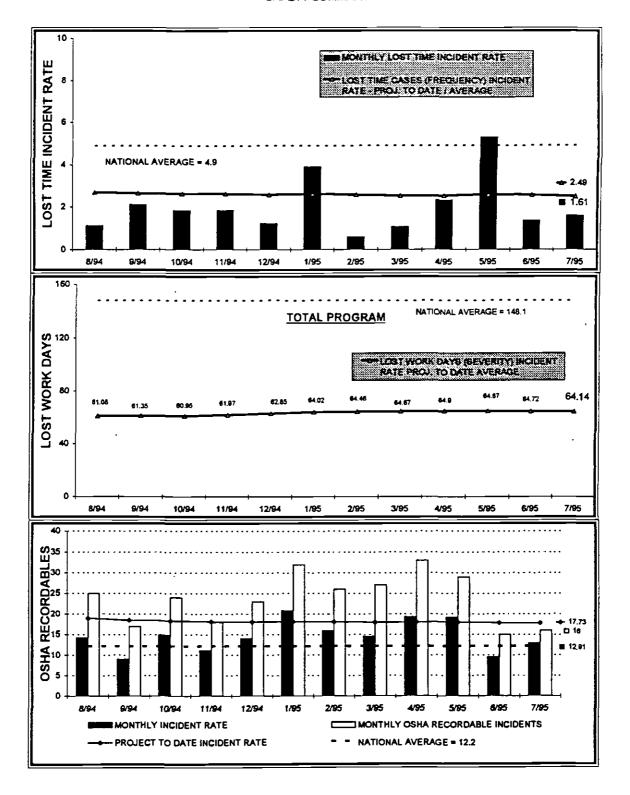
IN THOUSANDS

AUGUST 1995

	METRO E	LUE LINE			METRO O	REEN LINE	MÉTRO P		METRO	RED LINE	METRO	TED LINE	METRO	RED LINE	METRO	RED LINE	VEHICLE /	coulsmo	101	4.	COR
ļ	DOI: 100	nesetne.		E LINE	D-911488		8EGME		BEGM			NT 3 NH		(T3 MC		NT3 ES	PROJ		PROGR		90
	PATTANA	PERCENT	DULLARS	PERCENT	KALAN*	PERCENT	DOCTORS.	PERCENT	DOLLARS	PERCENT	DOLLARS.	PERCENT	DOLLARS'	PERCENT	DOLLARS	PERCENT	DOLLARS	PERCENT	DOLLARS	PERCENT	en e
CONSTRUCTION	657,487	74.95%	600,819	60.22%	477,236	60,49%	812,270	58.02%	1,049,335	69.13%	816,545	61.70%	٥	N/A	638,957	65.23%	229,830	89.22%	6,282,479	65.05%	
REAL ESTATE	55,592	8.34%	77,721	7.79%	26,047	3,83%	140,000	9.00%	88,982	5.88%	86,418	6.53%	٥	N/A	26,570	2.71%	۰	0.00%	801,331	6.17%	
PROFESSIONAL SERVICES:																		t	ļ ——		
ENGINEERING/DE8	69,587	7.93%	93,716	9.30%	63,296	11.80%	221,669	15.29%	154,870	10.20%	86,289	6.52%	٥	· N/A	94,591	9.05%	1,700	0.66%	806,708	9.92%	
CONSTR MONT.	91,642	10.45%	76,695	7.71%	78,213	10.90%	116,429	8.03%	140,667	9.27%	106,207	6.18%	٥	N/A	79,826	8.15%		0.00%	691,869	8.52%	8
STAFF	17,658	2.01%	61,862	5.20%	24,179	3.37%	95,558	6.59%	63,221	3.51%	57,676	4.36%	٥	N/A	36,588	3.73%	5,335	2.07%	342,075	4.21%	
OTHER	14,222	1.62%	22,526	2.20%	17,337	2.42%	32,671	2.25%	20,030	1.32%	36,459	2.76%	٥	N/A	16,630	1.70%	12,469	4.84%	172,346	2.12%	*
SUBTOTAL	193,106	22.01%	244,009	24.56%	203,025	28.28%	466,317	32.16%	368,760	24.30%	288,631	21.81%	0	N/A	227,635	23.24%	19,505	7.57%	2,011,998	24.77%	3
ONTINGENCY	963	0.11%	74,219	7,44%	12,767	1,78%	31,432	2.17%	11,468	0.78%	131,774	9.96%	0	N/A	86,439	8.62%	8,262	3.21%	367,315	4.40%	
PROJECT REVENUE	(29,877)	-3.41%	(33)	-0.00%	(1,263)	-0.16%		0.00%	(701)	0.00%	0	0.00%	0	N/A	۰	0.00%	٥	0.00%	(31,873)	-0.39%	
PRAND TOTAL	877,271	100.00%	997,726	100.00%	717,802	100.00%	1,450,019	100.00%	1,517,865	100.05%	1,323,370	100.00%	۰	0.00%	979,601	100.00%	257,597	100.00%	8,121,251	100.00%	

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

TOTAL METRO SAFETY SUMMARY Prepared by: MASS TRANSIT GROUP



METRO GREEN LINE

EXECUTIVE SUMMARY

LEGEND

0	Open. Action still required.
	Completed or Not Applicable

CONTRACT CLOSE OUT STATUS METRO GREEN LINE

	•		CLOS	E OUT STA	ATUS		·	
		CLAIMS/	FINAL		FINAL	EQUIP.		PROJECTED
CONTRACT]	CHANGE		FINAL	ACCEPT.	FINAL		CLOSE-OU
NUMBER	DESCRIPTION	ORDERS	PAYMENT	RELEASE	CERTIF.	DELIV.	COMMENTS	DATE
C0170	ADA Elevators	0	0		0		-	Oct 95
	Main Yard & Shop		0					Oct 95
H1200	TPSS		0	0	0		·	Oct 95
H1400	ocs		0	0	0			Oct 95
C0095	Fencing/WID\$	0	0	0_	0			Oct 95
C0501	Systems Facilities Sitework	0	0	0	0			Oct 95
H0831	SCADA		0	0	0		-	Oct 95
H0832	CTS	0	0	0	0	9.53		Oct 95
H0840	Fare Collection Equipment	0	0	0	0			Oct 95
H1310	Signs & Graphics	0	0	0	0			Oct 95
	Radios	0	0	0	0			Oct 95
C0100	Guideway Construction	0	0	0	0		,	Oct 95
H0901	PIDS	0	0	0	0			Oct 95
H0900	SSCS	0	0	0	0		•	Oct 95
P2020	LRV's - 15 cars	0	0	0_	0		-	Nov 95
C0090	Miscellaneous Construction		0	0	0		· •	Nov 95
H1100	ATC	0	0	0	0			Mar 96

METRO PASADENA BLUE LINE

EXECUTIVE SUMMARY

EXECUTIVE SUMMARY

On August 23, 1995 the MTA Board directed Construction staff to hire a consultant to develop an implementation plan and establish cost of "Turnkey" approach to construction of the Pasadena Blue Line Project. During the week of August, 21, 1995, the process to select said firm was conducted. Staff continued to review the cost reduction items included in the motions made by the Board in July. An update of the review will be presented at the September Construction Committee and Cost Containment, Contracts and Efficiencey Committee meetings. Board direction on implementing changes to the budget and scope of the project will be delayed pending completion of Operation Peer Review Panel workshop currently scheduled to be held in September.

Staff continued to negotiate outstanding CCR's and is preparing Amendment No. 5 for CWO 0021 and Amendment No. 2 for CWO 0025.

Because of the suspension of design work, minimal progress was realized during this reporting period. The Final Design percent complete at the end of August stands at 78.9%.

Construction work continues on Contract C6410, Los Angeles River Bridge and Contract C6430, Arroyo Seco Bridge Reconstruction. On C6410, final contract closeout is in process. The current forecast for overall expenditures for C6410 is projected a underrun of the AFE by approximately \$520,000. On C6430, work continues on schedule. Notice to Proceed was issued for Contract C6435, Reconstruction and Retrofit of Steel and Concrete Bridges.

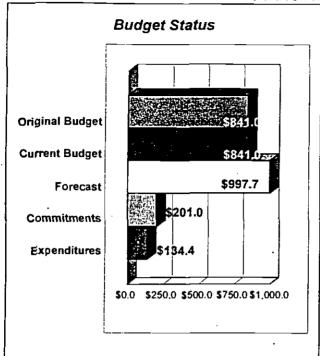
The Project safety records on Lost Work Days and Lost Time Incident Rates remain at zero.

Budget/Forecast Variance (x \$1,000)

	igeur brecasi va	TIATICE (X \$1,00		
COST ELEMENT	CURRENT BUDGET	CURRENT FORECAST	VARIANCE	AUGUST CHANGE IN FORECAST
	BODGET	PORLCASI	VARIANCE	FURECASI
CONSTRUCTION	\$475,115.5	\$585,527.2	\$110,411.7	\$0.0
PROFESSIONAL SERVICES	199,213.3	245,000.1	45,786.8	0.0
REAL ESTATE	72,307.5	77,721.1	5,413.6	0.0
UTILITY/FORCE ACCOUNTS	21,997.4	12,925.1	(9,072.3)	0.0
SPECIAL PROGRAMS	4,402.2	2,367.0	(2,035.2)	0.0
CONTINGENCY	67,964.1	74,219.1	6,255.0	0.0
PROJECT REVENUE	0.0	(33.9)	(33.9)	0.0
TOTAL PROJECT	\$841,000.0	\$997,725.7	\$156,725.7	\$0.0
NEW REQUIREMENTS]	
CONSTRUCTION				
PROFESSIONAL SERVICES]			•
REAL ESTATE		ľ		
UTILITY/FORCE ACCOUNTS				
SPECIAL PROGRAMS				,
CONTINGENCY		Ì	1	
PROJECT REVENUE	_		:	
TOTAL NEW REQUIREMENTS	\$0.0	\$0.0	\$0.0	\$0.0
GRAND TOTAL	\$841,000.0	\$997,725.7	\$156,725.7	 \$0.0

Budget/Forecast Variance Analysis

Budget and forecast remain at the same value. No trends were issued during the reporting month.

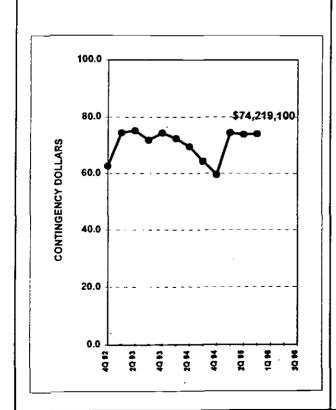


Budget Status Analysis

No change in Budget for current reporting period.

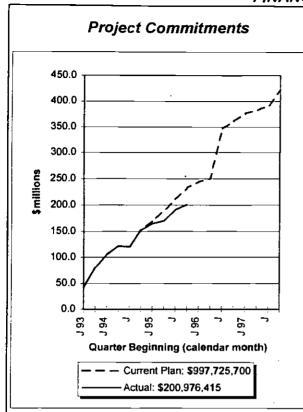
Contingency Status

Dollars in Millions



Remaining Contingency Analysis

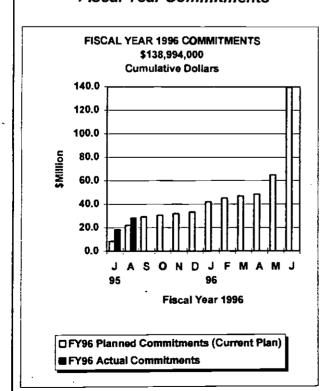
To date, the Project's contingency stands at \$74,219,100 which includes no change from the July 1995 period. In addition, individual awarded contracts have a total remaining allocated contingency of approximately \$2.1 million.



Project Commitments Analysis

Project commitments are \$201.0 million, or 20.1% of the total forecast. The \$9.8 million increase to commitments are primary the costs associated with contracts for C6435 Reconstruct & Retrofit Steel & Concrete Bridges and C6430 Arroyo Seco Bridge.

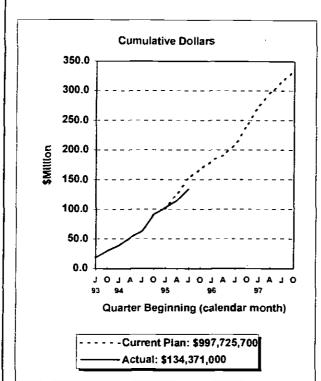
Fiscai Year Commitments



Fiscal Year Commitments Analysis

Curent plan is based on the assumption that Contracts C6490, C6435, and C6420 will go under construction.

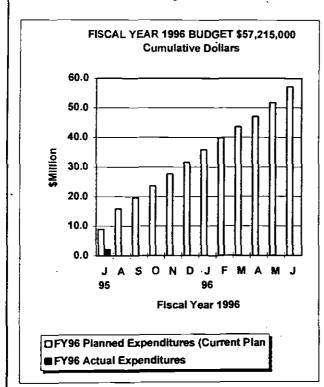




Project Cashflow Analysis

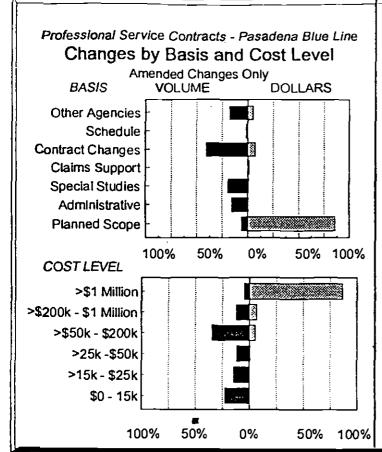
Project expenditures ending July 28, 1995 were 13.5% of total forecast. The expenditure for July 1995 are accounted for mainly by the payment of invoices for the LA and Arroyo Seco Bridges, construction management of MTC, and MTA Administration.

Fiscal Year Project Cashflow



Fiscal Year Cashflow Analysis

The underrun is mainly due to delays in awarding the planned construction contracts.



CHANGE BASIS ANALYSIS

Pasadena Consultant Change Request's (CCR) continue to be mainly due to changes during the design phase of non-awarded construction contracts. These CCR's constitute 40% of the overall change volume, or 34 of the 84 changes overall.

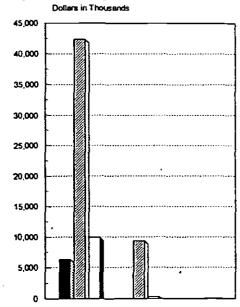
An example would be the redesign of the Chinatown Aerial Structure on the Pasadena Line. The redesign was primarily due to the January 17 earthquake requiring the revision of the existing seismic criteria. The revision provided for a safer aerial structure which in turn promoted community harmony.

CHANGE COST LEVEL ANALYSIS

As shown on the Cost Level Analysis chart opposite, the MTA Board reviews 93% of all change costs associated with the Pasadena Blue Line or \$57M of a total change cost of \$61M (including Planned Additional Scope items of \$42M). This equates to 17% of the total change volume, or 14 of 84 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 - Pasadena Blue Line Change Cost by Consultant



1 1	EMC	CM - PD/MTC	OTHER
Amended	6,330	35	115
Planned Scope Additions 🗵	42,364	9,369	0
n Process	9,973	325	45
Total \$ Changes	58,667	9,729	160

PROFESSIONAL SERVICES CHANGE ANALYSIS

No Amendments approved this period.

MTA plans to submit Amendment 5 to EMC CWO #021 and Amendment 2 to EMC CWO #0025 at the September 17, 1995 MTA Board Meeting.

Amendment 2 to CWO #025 will include a Planned Additional Scope item totaling \$630K. This will add EMC support services for contract C6490.

DATA SOURCE: CCS: CCR REPORTS

<u>Planned Additional Scope</u> = 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.

SCHEDULE STATUS

Real Estate Status

			PARCELS	PAR	CELS NOT
]	NUMBER	NOT	AV	AILABLE
	NUMBER	OF	AVAILABLE	(BEHING	SCHEDULE)
	OF	PARCELS	(ON		AVG. DAYS
	PARCELS	AVAILABLE	SCHEDULE)	NUMBER	BEHIND
THIS MONTH	164	19	141	4	90
LAST MONTH	164	19	141	4	90

Real Estate Analysis

Number of parcels acquired is 19. Number of parcels to be acquired is 38.

Contract Closeout Status

			PROJECTED
CONTRACT	}		CLOSEOUT
NUMBER		DESCRIPTION	DATE
C6410	LA River	Bridge	12/31/95
			1
	-		
	1		1
	<u> </u>		<u>:</u>
	-		:
	1		•
			:
	<u> </u> 		
	<u> </u>		·
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	1		

Contract Closeout Analysis

Closeouts Completed

Closeouts in Process

Closeouts Remaining

AREAS OF CONCERN

Yard Site Location

Concern: A temporary maintenance facility at the Midway Yard has been formally

adopted as part of the baseline scope of work. Due to the uncertainty of constructing the Glendale-Burbank LRT Line, the project has experienced cost growth by making the yard a more permanent facility

per MTA Operations' requirements.

Action: MTA Construction Division and EMC have identified the budget issues

related to the maintenance facility. Value engineering was initiated to

reduce cost growth.

Status: Final design is currently on hold. No status on final design pending an

independent review of the Midway Yard to be made by an Operations

Peer Panel in mid-September.

Ratkovich Interface at LAUPT

Concern: Location of the LRT terminus at Union Station and aerial guideway

alignment on Vignes Street involves interface with the Ratkovich Villanueva Partnership. The alignment crosses Ratkovich's interests at

two locations along the Terminal Annex property.

Action: Negotiation of the easement is required by MTA with Ratkovich.

Completion of Chinatown Aerial Structure Camera Ready design submittal is on hold pending approval of the EMC CCR 188 by the MTA

Board.

Ratkovich Interface at LAUPT (cont.)

Status:

Meeting was held with Ratkovich and LADOT on November 30, 1994 regarding the street improvements on Vignes Street. A tentative agreement was reached with all parties. Final concept drawings were issued by the MTA. MTA is waiting for written concurrence by LADOT and Ratkovich. Approval of CCR 188 is set for the September Board meeting.

Real Estate

Concern:

The real estate acquisition effort is behind schedule. In-Progress and Final designs include additional parcels to be certified and acquired.

Action:

The Pasadena Project team has facilitated bi-weekly parcel acquisition schedule meetings with LACMTA and EMC real estate personnel.

Status:

Appraisals are continuing. Real Estate acquisition availability dates continue to be re-evaluated in lieu of Turnkey contract options which are being considered by the MTA Board.

EMC Design Cost Amendment

Concern:

The final design costs will exceed the current approved Contract Work

Order 21.

Action:

MTA project staff members continue to negotiate the reported scope

changes with the EMC.

EMC Design Cost Amendment (cont.)

Status:

Staff continues to negotiate outstanding CCR's. EMC's Amendment 5 covering 11 CCR's is being proposed for approval at the September 1995 MTA Board meeting in the amount of \$1.683 million

The CCR's included in Amendment 5 have been reviewed and negotiated by the MTA staff through the CCRB process.

Del Mar Station

Concerns:

The transportation center proposed by the City of Pasadena has major potential impacts on the Del Mar park-and-ride facility, final station design and line segment design for Del Mar to Memorial Park.

Action:

MTA Construction Division is continuing discussions with the City of Pasadena on interface with the station and line segment designs and transportation center. A memorandum of understanding will be prepared and executed between MTA and the City of Pasadena.

Status:

Final designs are based on the assumptions shown on the In-Progress drawings for C6500, Del Mar Station, for the transportation center. The design enhancements of the City's sponsored workshop have been estimated by MTA for design and construction cost impacts. Staff is also evaluating cost containment issues for changing from center platform to two outside platforms. Discussion continue on finalizing a MOU.

Sierra Madre Villa Station

Selection of a station site alternative to the original Space Bank site is Concern:

required, due to the potential existence of serious hazardous material at

that site.

Action: The MTA Board has approved the selection of the SMV station site.

MTA has purchased and obtained possession of the Johnson & Johnson

station site.

Status: MTA continues to discuss joint development options with the Best Buy

Company and have completed an evaluation of Best Buy's proposal from a transit stand point. Other joint development opportunities are also being

considered.

Marmion Way Corridor

Results of the evaluation of the design of Marmion Way between Avenue Concern:

50 and Avenue 60 as a betterment have led to increased project design

and construction costs.

Action: Agreement is required from City of Los Angeles for betterment issues.

The MTA Board has adopted a Cost Containment / Value Engineering Status:

> recommendation to negotiate new Master Cooperative Agreement covering betterment. Staff will review with County Counsel upon Board

approval of the cost containment items.

Union Station Platform #1

Concern: Engineer's Estimate and Addenda preparation to support bid opening date

of August 23, 1995 for Contract C6490.

Action: The MTA has authorized expenditure in the absence of the Board

approved Design Support During Construction PIP.

Status: EMC has submitted a revised PIP for submittal to the MTA for approval.

The PIP, included in Amendment No 2 for CWO 0025 which is scheduled to be reviewed by the MTA Board at the September 1995 Board

meeting.

Chinatown Station

Concern: Selection of Chinatown pedestrian linkage alternative will impact the

Chinatown Aerial Structure and stations designs, and may require

additional property acquisition.

Action: MTA Construction Division has worked closely with Central Area Team

on defining suitable pedestrian access from Broadway Street to the Chinatown Station platform. The community has selected a pedestrian

linkage for action by MTA.

Status: Further progress on final design is pending the approval of the EMC's

CCR 188 which will be included in Amendment No. 5 for CWO 0021 for

the September Board meeting.

210 Freeway Stations

Concern: Noise impacts at Lake, Allen and Sierra Madre Villa Stations from

adjacent freeway traffic.

Action: Review of noise criteria and conformance to EIR.

Noise mitigation is proposed for the Lake Avenue Station. The elimination of Allen Avenue Station due to low ridership forecasts is a Cost Containment recommendation. Staff will submit a Cost Containment

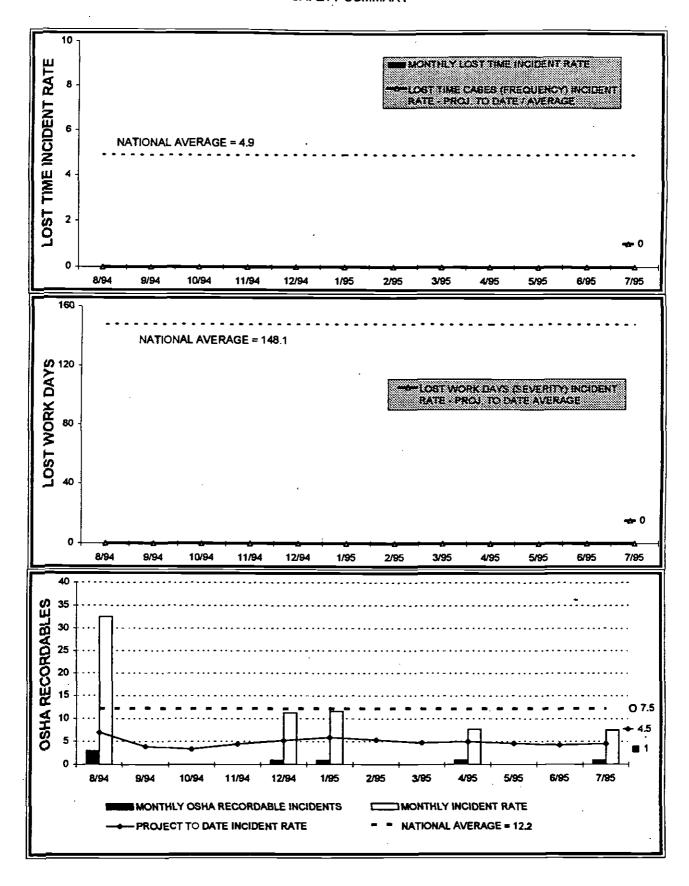
progress report update to the MTA Board in September.

Status: Staff has deferred the bridge retrofit work at these bridge locations

pending further action by the MTA Board on adoption of any Cost

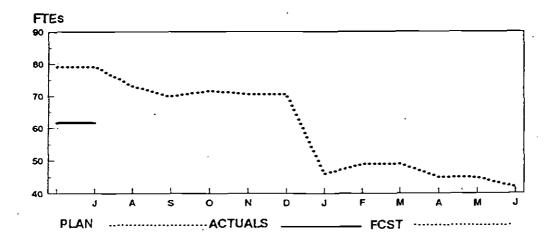
Containment / Value Engineering recommendations.

METRO PASADENA BLUE LINE SAFETY SUMMARY



PASADENA BLUE LINE

TOTAL STAFFING



STAFFING ANALYSIS

The total staffing actuals are lower than planned mainly due to level of effort tasks required by Construction Management and the Engineering Management Consultants. Also, the project is being re-evaluated for Value Engineering and Cost Containment opportunities associated with design and construction.

MTA Board Action is expected to take place in September on Value Engineering and Cost Containment. The recommendations of the Board Action will determine staffing requirements.

KEY ACTIVITIES - ACCOMPLISHED IN AUGUST

- Contract C6410, LA River Bridge: Completed electrical work, fencing, drainage of curbs. Conducted inspections with MTA and third parties.
- Contract C6430, Arroyo Seco Bridge Reconstruction: Set twin towers and began erecting superstructure steel.
- Contract C6435, Bridge Retrofit and Reconstruction of Concrete and Steel Bridges: Held initial preconstruction meeting on August 21. Moved to Pasadena field office. Received early review of submittals from contractor.
- Contract C6490, Union Station: Held Pre-Bid Meeting and conducted tour of site for bidders.
- Contract P2100, Precast Concrete Ties: Continued submittal reviews.

KEY ACTIVITIES - PLANNED FOR SEPTEMBER

- Contract C6410, LA River Bridge: Complete ductbank, approach slabs, fireline and punchlist items. Hold Substantial Completion inspection September 7.
- Contract C6430, Arroyo Seco Bridge Reconstruction: Complete erection of tower bents. Begin installing piles for retaining/sound walls west of freeway.
 Continue erection of new plate girders for bridge.
- Contract C6435, Reconstruction and Retrofit of Steel and Concrete Bridges:
 Remove track ballast and ties. Begin demolition of Sunnyslope Bridge.
- Contract C6490, Union Station: Send last Addendum to planholders. Bid opening in October.
- Contract P2100, Precast Concrete Ties: Continue submittal reviews.

METRO RED LINE SEGMENT 1 EXECUTIVE SUMMARY

METRO RED LINE SEGMENT 1

The current forecast remains at \$1,450 million. The final Grant Closeout documentation was submitted to the Federal Transit Administration on January 30, 1995.

The following activities are still remaining:

- Continue support and test of Breda vehicles.
- Negotiate closeout of professional services contracts.
- Continue closeout of third party work orders.

Contract Closeout Status

CONTRACT	DESCRIPTION	PROJECTED CLOSEOUT DATE
A610/115	Track Installation	Sep 95
	_	1
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Closeouts in Process 1

Closeouts Remaining 1

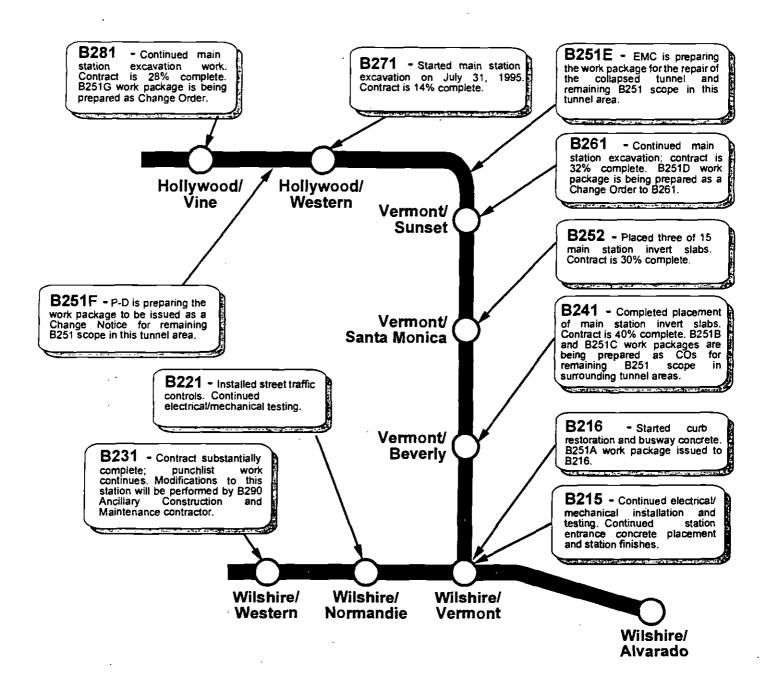
Contract Closeout Analysis

Final closeout of Contract A610/115 is pending claims litigation.

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METRO RED LINE SECIMENT 2 EXECUTIVE SUMMARY

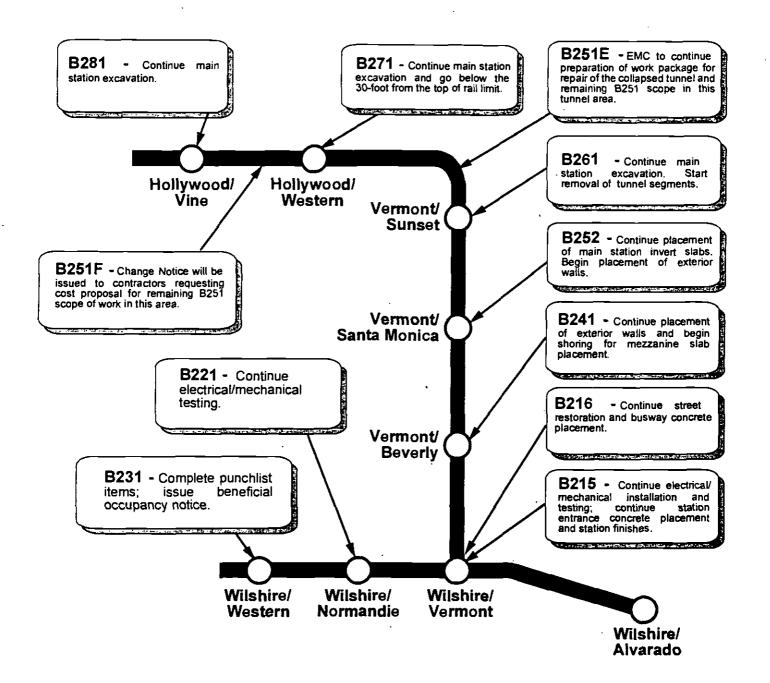
Major Activities This Period



SYSTEMWIDE ACTIVITIES

Continued installation of intrusion detection, emergency management, public address, and fire detection systems. No systems integration tests were conducted this period. Initiated train control operational tests. Continued installation on elevators/escalators.

Major Activities - Next Period



SYSTEMWIDE ACTIVITIES

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

Budget/Forecast Variance

			<u> </u>	
COST ELEMENT	CURRENT BUDGET	CURRENT FORECAST	VARIANCE	AUGUST CHANGE IN FORECAST
CONSTRUCTION	\$963.2	\$965.5	\$2.3	\$3.8
PROFESSIONAL SERVICES	347.3	349.7	2.4	0.0
REAL ESTATE	87.3	89.0	1.7	0.0
UTILITY/FORCE ACCOUNT	31.1	31.6	0.5	0.0
SPECIAL PROGRAMS	4.4	2.5	(1.9)	0.2
CONTINGENCY	13.3	8.8	(4.5)	(4.0)
PROJECT REVENUE	(0.2)	(0.7)	(0.5)	0.0
TOTAL PROJECT	\$1,446.4	\$1,446.4	\$0.0	\$0.0
NEW REQUIREMENTS			-	
CONSTRUCTION	\$49.0	\$49.7	\$0.7	\$(0.6)
PROFESSIONAL SERVICES	18.9	19.1	0.2	0.0
REAL ESTATE	0.0	0.0	. 0.0	0.0
UTILITY/FORCE ACCOUNT	0.0	0.0	0.0	0,0
SPECIAL PROGRAMS	0.0	0.0	0.0	0.0
CONTINGENCY	3.3	2.6	(0.7)	0.6
TOTAL NEW REQUIREMENTS	\$71.2	\$71.4	\$0.2	\$0.0
GRAND TOTAL	\$1.517.6	\$1,517.8	\$0.2	\$0.0

Budget/Forecast Variance Analysis

Please refer to the following page.

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Budget/Forecast Variance Analysis

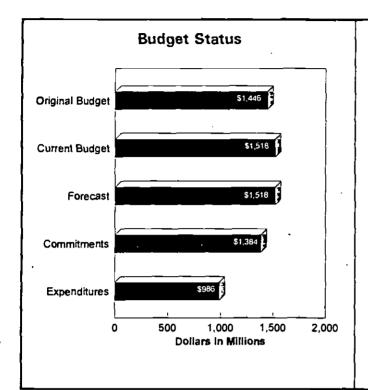
The budget/forecast variance resulted from the forecast value increases in construction and special programs to reflect changes in the contracts.

The forecast increase of \$3.8 million in August is mainly attributed to construction contracts B216, Wilshire/Vermont Site Restoration; B221, Wilshire/Normandie Station and Line; and B281, Hollywood/Vine Station. The increases were caused by:

- B216--added \$1.1 million for Change Notice 5, transfer of B251
 Vermont turnout scope of work; Change Notice 2, removal of material
 from Parcel B2-119; Change Notice 9.01, retaining wall north of
 busway; Work Authorization Change Notice 4, buried debris in busway;
 costs were also added for miscellaneous changes and additional
 unsuitable native material.
- 2. <u>B221</u>--added \$1.1 million for Change Notice 350, motor control center/communication interface cabinet; Request for Change 210, missing threaded studs on B231 tunnel rings; Change Notice 330, local instrumentation panel, emergency fan, and bypass damper wiring; and Change Notice 364, B610 conflicts; costs were also added for unquoted Tutor-Saliba Requests for Change, miscellaneous street changes, pending claim for temporary fence and gates for worksite, and costs for additional delays.
- 3. <u>B281</u>--added \$1.1 million to cover issues associated with a time extension request regarding delay due to a design change that revised the relocation of the waterline (incorporate delay claim arising from revision to water distribution system).

Note: The real estate acquired to support the Transit Enhancement covered under new requirements Budget and Forecast remains at \$39.0 million.

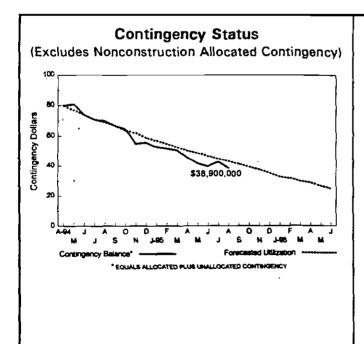
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Budget Status Analysis

The current budget growth from original budget was due to the addition of Transit Enhancement, ADA, and earthquake repair programs. The Transit Enhancement and ADA programs total \$71.2 million, which is included in the current budget as New Requirements, and \$71.4 million in the forecast.

The commitments increased \$16.9 million in August, due to \$8.4 million in construction and \$8.6 million in professional services. The commitments to date of \$1,384.0 million are within 3% of the planned commitments. The expenditures increased \$11.5 million in August, which is within 3% of the planned expenditures.

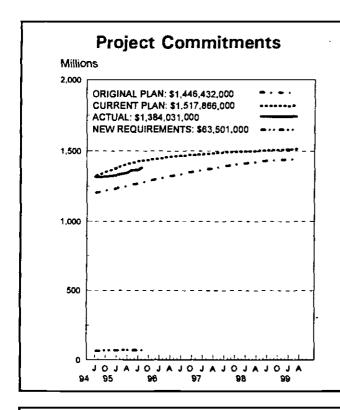


Contingency Status Analysis

The allocated contingency for construction in August is \$27.5 million; the unallocated contingency is \$11.4 million; and the project contingency is \$38.9 million. The contingency percentage of cost to go is 7.7%.

The forecasted contingency decreased \$3.4 million to offset forecast increases to B216, B221, and B281, as noted in the Budget Forecast Analysis.

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Project Commitments Analysis

Project cumulative planned commitments are \$1,431.0 million; actual commitments are \$1,384.0 million or 96.7% of the total forecast. The total increase for August commitments are \$16.9 million. This primarily consists of an increase of \$8.4 million in construction contracts due to executed Change Notices and Work Authorization Change Notices. professional services had an increase of \$8.6 million due to work order changes.

Millions 50 FISCAL YEAR BUDGET: \$40,981,000 PLANNED COMMITMENTS: ACTUAL COMMITMENTS: 40

Fiscal Year Commitments

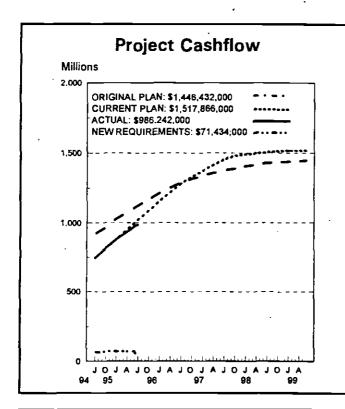
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Fiscal Year Commitment Analysis

Planned commitments are \$7.5 million; actual commitments are \$18.0 million*. This increase to actual commitments was due to \$8.4 million in construction and \$8.6 million in professional services, due to change orders and a partial approval of order change work No. Construction Manager services.

*This section includes new requirements.

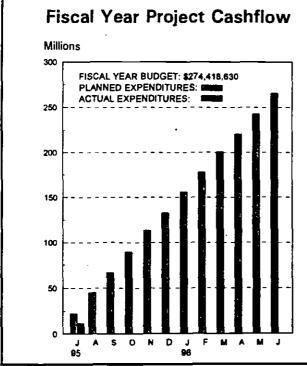
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Project Cashflow Analysis

Project cumulative planned expenditures are \$1,020.6 million; actual expenditures are \$986.2 million or 96.6% of the total to date forecast. The total increase for July expenditures is \$11.5 million. This primarily consists of expenditures for construction and professional services contracts.

Cashflow reporting lags behind one month due to billing cycle.

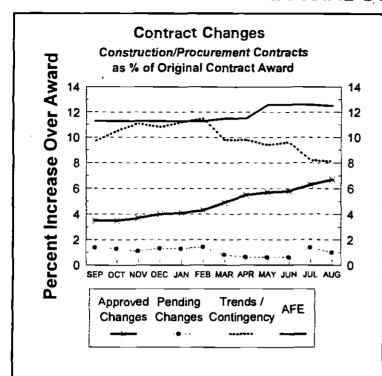


Fiscal Year Cashflow Analysis

Planned cumulative expenditures for the fiscal year are \$22.1 million; actual expenditures are \$11.5 million*. The actual expenditures for August are substantially lower than plan because of termination of Contract B251 and acceleration of invoices during the previous month for closeout of FY 95. The expenditures are expected to be line with more in the plan approximately 2 to 3 months, when the redeployment of the remaining B251 work becomes effective.

*This section includes new requirements.

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Contract Changes Analysis

The approved changes had a 0.5% increase in August, mainly due to various executed Change Notices and Work Authorization Change Notices for the work along the Wilshire Corridor. The pending changes decreased 0.4% in 'August. The Trends/Contingency category had a 0.1% decrease in August, primarily due to the decrease in the total log value for construction contracts. The AFE percentage also decreased 0.1%.

Construction Procurement Contracts

Contract Cost and Forecast*

Comparison to Budget

Dollars in Millions	Current	Previous	Variance
Original Contract Award	\$782.3	\$776.4	\$ 5.9
Approved Change Value * *	\$49.5	\$45.8	\$3.7
Current Value	\$831.8	\$822.2	\$9.6
Pending Logged Changes	\$7.7	\$10.4	\$<2.7>
Trends and Contingency	\$61.6	\$58.5	\$3.1
Total Forecast	\$901.1	\$891.1	\$10.0
Constr. Budget	\$882.0	\$882.0	\$0.0

^{*}Forecast and budget for awarded contracts only.

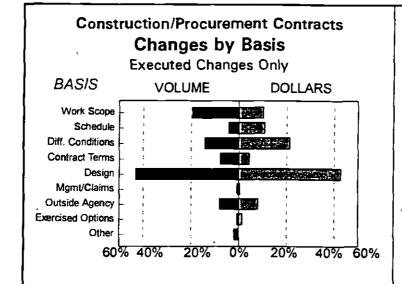
**Includes executed Change Orders and Approved Not-to-Exceed Costs.

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Contract Forecast Analysis

The variance increase of \$9.6 million in the approved contract and current value is primarily due to various executed Change Notices and Work Authorization Change Notices. The variance decrease of \$<2.7> million of pending logged changes occurred in various pending changes.

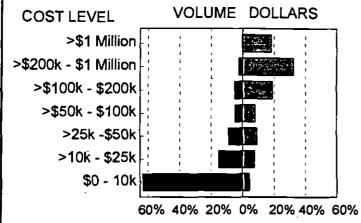
Trends and contingency increased by \$3.1 million. The current data changed from the previous database due to an administrative adjustment to bring the data in line with the CCS database. (Please refer to the Appendices for a sample of the CCS database.)



Change Basis Analysis

Design changes represent approximately 43% of the basis for change and 43% of the total change cost. Changes in work scope and differing site conditions combined represent approximately 33% of the basis for changes and 33% of the total change cost.

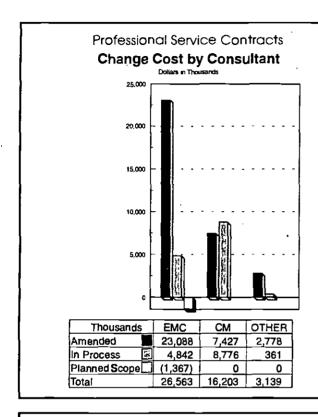
Construction/Procurement Contracts Changes by Cost Level **Executed Changes Only**



Change Cost Level Analysis

- 51% of the total change cost falls within the MTA Board authority, which equals 2.5% of the change volume
- 28% of the total change cost falls within the MTA CCB authority, which equates to 10% of the change volume
- 9% of the total change cost falls within the CM authority, which equates to 9% of the change volume
- 12% of the total change cost falls within the RE authority, which equates to 78.5% of change volume ...

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Professional Services Change Analysis

No contract Amendments approved this period.

MTA plans to submit Amendment 9 to EMC CWO 003 at the September MTA Board meeting.

DATA SOURCE:

CCS: CCR REPORTS

<u>Planned Additional Scope</u> = Services that 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 .Changes by Basis and Cost Level Amended Changes Only **BASIS** VOLUME **DOLLARS** Other Agencies Schedule Contract Changes Claims Support Special Studies Administrative Planned Scope 0% 50% 25% 25% 50% COST LEVEL >\$1 Million >\$200k - \$1 Million >\$50k - \$200k >25k -\$50k >15k - \$25k \$0 - 15k 25% 25% 50%

Change Basis Analysis

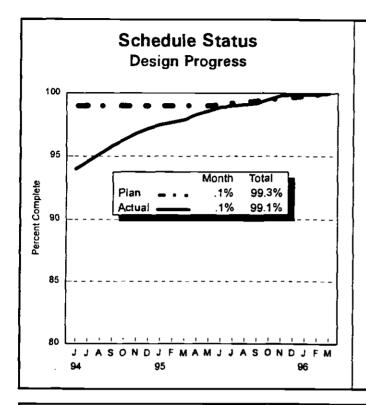
Changes due to Special Studies account for approximately 28% or 56 of the 202 Consultant Change Requests (CCRs) on Red Line Segment 2. An example would be PD CCR 124.00 - Noise, Vibration and Dust Monitoring for Los Angeles Unified School District (LAUSD). An agreement between the MTA and LAUSD provided for noise, vibration, and dust monitoring at the Los Feliz Elementary School, ensuring a safe and healthy environment for the school children.

The negative value shown against Planned Scope reflects the MTA-directed 5% reduction to professional services contracts in December 1994.

Change Cost Level Analysis

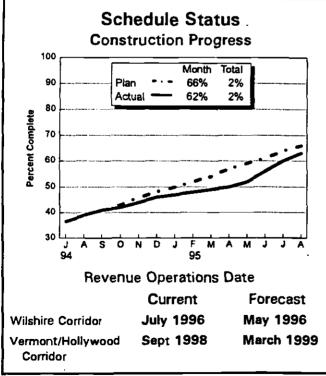
As shown on the Cost Level chart opposite, the MTA Board reviews 79% of all change costs associated with the Red Line Segment-2 Project or \$30M of a total change cost of \$38M. This equates to 24% of the total change volume or 48 of 202 total changes.

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Design Schedule Progress Analysis

The EMC design progress at the end of August is 99.1% complete, with two active contracts remaining in design. Contract drawings are underway on Contract B648B, Communications Installation--Vermont/Hollywood corridor, with expected completion in March 1996. Work remains under suspension on Contract B263, the second entrance at Kaiser Hospital, pending further direction from the MTA. Design support during construction is 67.0% complete as of August 25, 1995, versus 66.6% planned.



Construction Schedule Progress Analysis

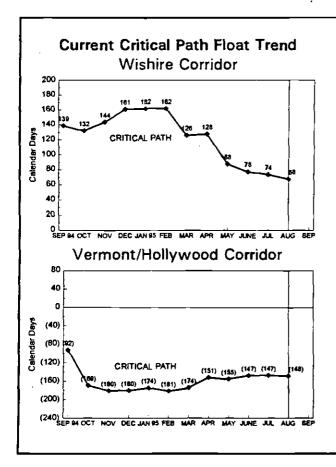
The overall construction progress is 62%, compared to a planned progress of 66%. The progress is 4% behind schedule due to tunnel delays under Hollywood Boulevard. In addition, all Vermont/Hollywood Station contracts ere behind schedule due to unforeseen conditions (conflict of utilities with station piles and decking, contaminated soil, rain delays, stop work notices, LADOT edded restriction, termination of B251 contract, etc.), design changes, end slower than planned production rates for station excavation and support of utilities.

Wilshire Corridor is 2.5 months ehead of schedule due to better then originally planned facility end system progress. Late design changes continue to decrease the positive float for Revenue Operations Date (ROD) and impact contractual milestones.

Vermont/Hollywood Corridor is behind schedule by 5 months due to tunneling delays under Hollywood Boulevard, causing e suspension of work for B271 and B281 stations.

The mitigetion plan for reducing negative float for Vermont/Hollywood Corridor will resume efter all B251X work packages ere issued and negotiated with contractors.

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Current Critical Path Analysis

<u>Witshire Corridor</u> forecast ROD was changed from 05/03/96 to 05/9/96 due to fire and emergency management software development delays.

Anticipate that the trend for decreasing positive float will level out in October.

<u>Vermont/Hollywood Corridor</u> overall forecast ROD delay is due to late Notice to Proceed of station contracts, delay in tunnel mining, and tunnel concrete work. See Variance Analysis under Construction Progress Analysis for more details.

Forecasted ROD is going through the B271 main station excavation.

Other critical path contracts are Contract B610, Trackwork Installation, concrete plinth, rail installation and testing; Contract B620, Automatic Train Control, wayside installation, operation tests, and dynamic testing. No significant change in days of float from last month.

3-Month Contract Schedule

Contract Description

Advertise Date

None

N/A

3-Month Contract Schedule Analysis

There are 2 remaining contracts for Vermont/Hollywood Corridor: B263, Second Entrance Vermont/Sunset Station, and B648B, Communication Installation for Vermont/Hollywood Corridor. These contracts will be advertised in 1996.

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Activity	Forecast	Forecast		1995			1996 MAR APR MAY	
Description	Start	Finish	JUN JUL AUG	REP DET	NOV DEC	JAN FEB	MAR APR MAY	אר ויוער
B646 FIRE EMERGENCY MANAGEMENT SYS	STEM	·	arkarkarashi darkarkara kadea ad	gi cakada da	أويرأ مداء مقدماه بطمداد مراره فدف	rdan kadi adarah edan bada <u>eda</u> e	ife te epirales des prepietas propietas pr	
WC 646 DEVELOP/DEL PROG/SOFTWR-PLC'S	10MAY94A	26SEP96						
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+ SYSTEM INTEGRATION TESTS			· —	<u></u>				
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Real Estate Status

_	Number of parcels	Number of parcels available
This month	89	89
Last month	89	8 9

Real Estate Analysis

The number of parcels acquired is 89.

The number of parcels to be acquired is 0.

Contract Closeout Status

Contract Number	Description	Projected Closeout Date
B201	Pocket Track & Tunnel	Sept. 1995
B211	Wilshire/Vermont Station	Sept. 1995
B231	Wilshire/Western Station	Sept. 1995
B221	Wilshire/Normandie Station	Dec. 1995
B752	Metcalf & Eddy	TBD
B754	Dames & Moore	TBD
B756	Barsotti	TBD

Closeouts completed

4

Closeouts in process

7

Closeouts remaining

7

Contract Closeout Analysis

The closeout of Contracts B201, B211, and B231 is delayed by Change Orders and claims.

The closeout of Contracts 8752, 8754, and 8756 is pending final audits.

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AREAS OF CONCERN

ONGOING

Item

B251X Contract Termination/Remaining Work Completion Plus the Tunnel Collapse Repair

Concern/Impact

B251X is used to identify the remaining B251 construction work subsequent to the termination of the B251 contractor. The remaining work for work packages B251A through B251H could impact the affected station contracts. B251E, B251F, and B251G work package could impact the Vermont/Hollywood Corridor critical path.

Status/Action

Continue close coordination of the work packages between P-D, EMC, and MTA to allow earliest restart of work. Determine detail scope of remaining work and develop alternative construction sequence for work packages B251E, B251F, and B251G to avoid delays to Revenue Operation Date (ROD).

Responsibilities between P-D and EMC were defined, and a weekly schedule is being maintained to track the status of each work package. The current project schedule indicates that the B251E, B251F, and B251G work packages are not impacting the forecasted ROD. Final assessment will be made once the work packages are finalized.

Work package B251X consists of:

B251A:	Turnout Structure (P-D Prepare)
B251B:	Wilshire/Vermont to Vermont/Beverly (P-D Prepere)
B251C:	Vermont/Beverly to Vermont/Santa Monica (P-D Prepare)
B251D:	Vermont/Santa Monica to Vermont/Sunset (P-D Prepare)
B251E:	Vermont/Sunset to Hollywood/Western (EMC Prepare)
B251F:	Hollywood/Western to Hollywood/Vermont (P-D Prepare)
B251G:	Hollywood/Vine Access (P-D Prepare)
B251H:	Hollywood/Vine to Station 630+00 (P-D Prepare)

Item

Late Design Changes, DCN 18.0 and 18.1, Facility Motor Control Center/Communication Interface Cabinet

Concern/Impact

Changes to the completed facilities require rework and impact the Wilshire Corridor critical path.

Status/Action

Activities defining scope have been added to project schedule. Currently, problems with motor control center equipment vendors to support installation requirements may impact subsequent contractor interface and project testing, as well as system integration.

AREAS OF CONCERN (CON'T)

Item

Forecasted Delay to Revenue Operation Date (ROD) - Vermont/Hollywood Corridor

Concern/Impact

The Vermont/Hollywood Corridor Forecasted ROD slipped from September 28, 1998, to February 23, 1999, due to the Hollywood tunnel delays. The critical path runs through the Hollywood/Western Station, Contract B271, station excavation, station concrete placement, and trackwork access.

Status/Action

Perform detailed program review based on current program requirements to minimize cost and schedule impact. Re-evaluate the cost and schedule aspect of segmented Vermont Corridor ROD.

B271 main station excavation started on July 31, 1995. As part of the time impact analysis for B271 delays, the Contractor is to provide a cost/schedule recovery proposal for schedule mitigation of 30 days, 90 days, or 100% of the lost time. Recovery plan is projected to be submitted by the end of September. The Construction Manager continues to evaluate the cost and schedule benefits of alternative sequencing of construction that would allow tunnel concrete work to be prosecuted from both B281 and B271 access points.

RESOLVED

Item

Concrete Batch Plant Operators have been on strike since July 27, 1995

Concern/Impact

Alternate sources of concrete may not be able to meet quality and quantity requirements; therefore, the strike may cause contract and possibly a project delay. The three contracts are B215, Wilshire/Vermont Station; B241, Vermont/Beverly Station; and B252, Vermont/Santa Monica Station.

Status/Action

Determine the impact to the scheduled concrete placements. The affected contractors were pursuing alternate sources for concrete material. The strike was over in August and no significant schedule impact to either corridor project critical path was experienced.

AREAS OF OPPORTUNITY

ONGOING

Item

Vermont/Hollywood ROD Strategies

Opportunity

The completion of the Vermont/Hollywood tunnels has been impacted due to recent events (sinkhole and termination of B251 contractor). This condition presents scheduling uncertainties and increased cost risks.

Status/Action

CM is to develop schedule options in an effort to preserve schedule control and cost containment.

The CM is preparing a what if study that outlines the strategies and options as follows:

- Continue with current plan and single ROD milestone.
- Phased ROD for Vermont/Beverly and Vermont/Santa Monica Stations. Targeting the segmented ROD to be at least 6 months earlier than the currently forecasted Vermont/Hollywood Corridor ROD.

Item

Wilshire Corridor ROD

Opportunity

Achieve earliest possible ROD without incurring additional cost.

Status/Action

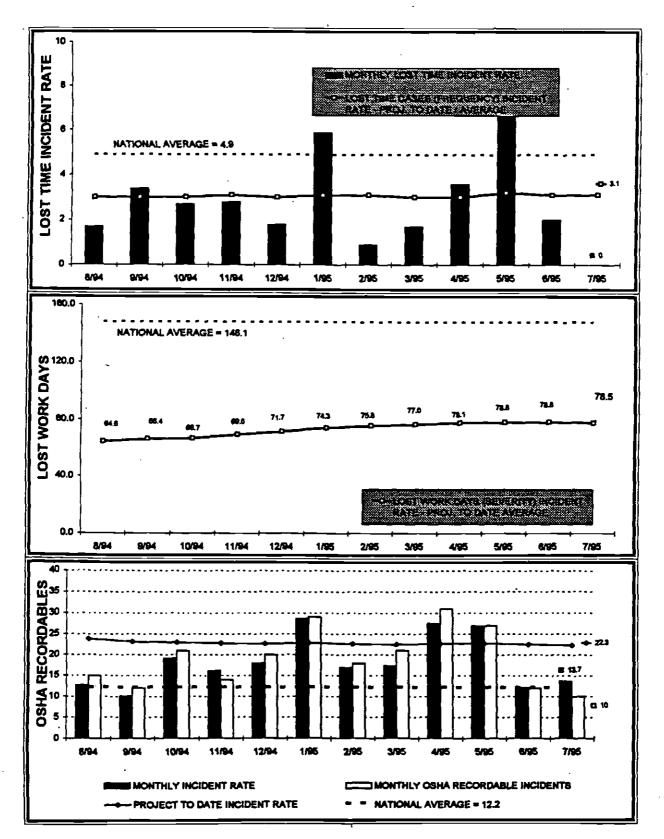
Continue to manage current master plan.

Traction-power ETS, hot frame detection, full voltage simultaneous pull away and passenger vehicle/trip switch integration tests are scheduled for early part of September 1995. Current master schedule forecasts Wilshire Corridor pre-revenue operations could commence in March 1996 with ROD in early May 1996.

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METRO RED LINE SEGMENT II SAFETY SUMMARY

Prepared by: MASS TRANSIT GROUP



SAFETY SUMMARY STATUS

SAFETY SUMMARY ANALYSIS

General

The entire Red Line project achieved favorable statistics with zero Lost Time Cases recorded for the month. This compares to the latest National Average of 4.9 Lost Time Cases per 200,000 hours worked. Similarly, the project rates a zero Lost Work Days as opposed to the 1992 National Average of 148.1 per 200,000 hours worked. (The Labor Department no longer publishes the lost days rate as of 1993). Training efforts included Toolbox Meeting, Substance and Drug Abuse Awareness Training, Field Safety Orientations, Job Hazard Analysis, Tunnel Safety, OSHA 500 30 Hour Sections and several First Aid/CPR courses conducted for the benefit of project personnel.

Monthly Metro Red Line Safety Meeting

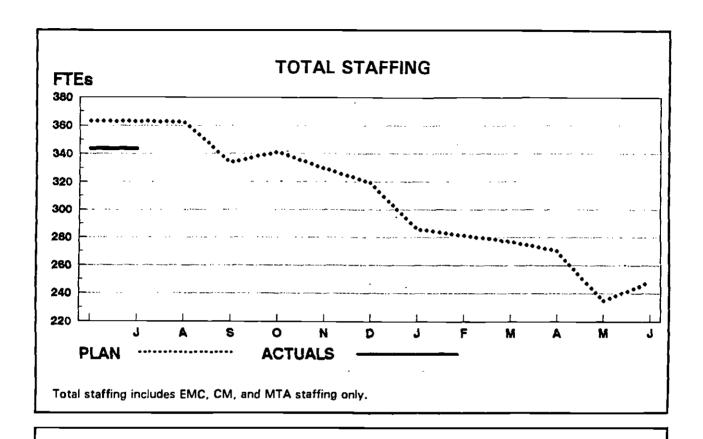
Due to organizational changes and scheduling conflicts, a projectwide safety meeting was not held in June. Meetings will begin again in August with a new format.

Safety Engineers Monthly Meeting

The monthly Safety Engineers meeting was held July 12, 1995. The meeting was opened by Lou Hubaud with brief comments and an open forum. Jim Veatch then presented updated information on the incident at B251 (the tunnel remining collapse). Information was circulated to allow for roster updates from all interested parties. The meeting closed with additional general discussion, including a review of the plans for the 'all hands' meeting. The next meeting is scheduled for August 8, 1995.

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PROJECT STAFFING STATUS



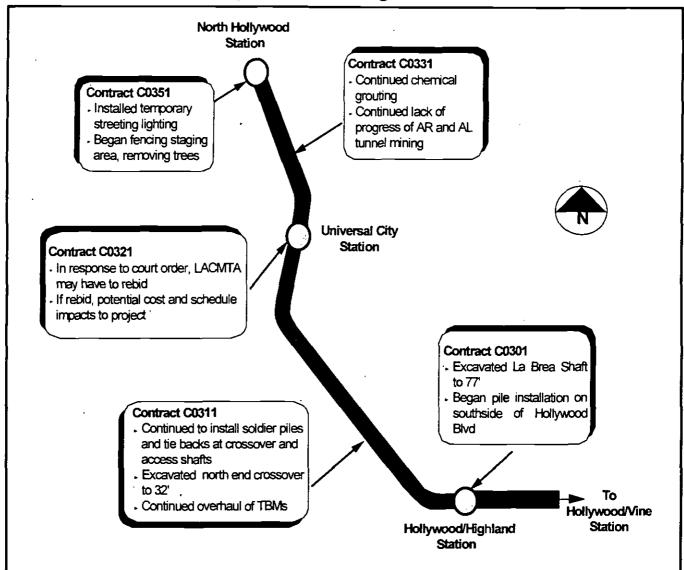
STAFFING ANALYSIS

The total staffing actuals are lower than planned primarily due to the MTA actual experience in completing hiring plans for Quality Assurance and Quality Control staff. The actual hiring plans are reviewed weekly to facilitate the employment process.

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METRO RED LINE SECWENT 3
NORTH HOLLYWOOD EXTENSION
EXECUTIVE SUMMARY

Major Activities August 1995



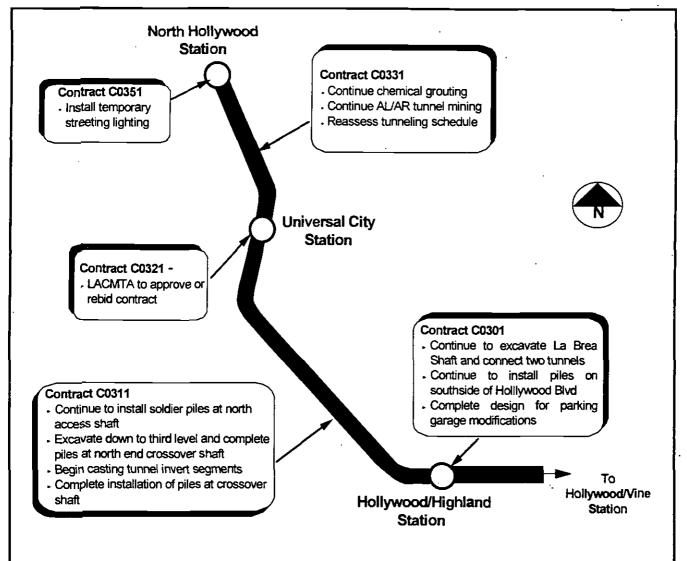
Systemwide Activities August 1995

Contract C1610 pre-final issued by EMC and constructibility review completed by JMA.

Contract B251 remaining work repackaged for distribution to other contracts.

Contract C0301 parking structure modifications continued.

Major Activities Planned For September 1995



Systemwide Activities Planned For September 1995

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

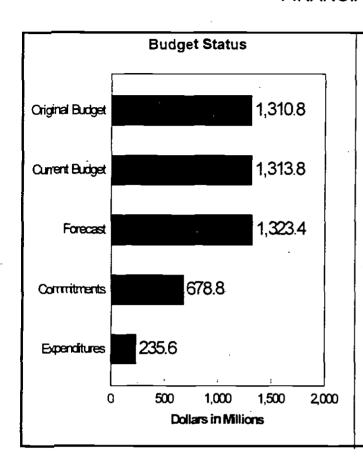
Contract B251 repackaging work to continue.

Budget/Forecast Variance

(\$000's) COST ELEMENT	(A) CURRENT BUDGET	(B) CURRENT FORECAST	(8-A) VARIANCE	AUGUST CHANGE IN FORECAST
CONSTRUCTION	\$766.9	\$779.2	\$12.3	0.0
PROFESSIONAL SERVICES	279.1	287.9	8.8	0.0
REAL ESTATE	85.6	. 86.4	0.8	0.0
UTILITY/FORCE ACCOUNT	18.7	25.6	6.9	0.0
SPECIAL PROGRAMS	0.0	0.0	0.0	0.0
CONTINGENCY	160.5	131.7	(28.8)	0.0
PROJECT REVENUE	0.0	0.0	0.0	0.0
TOTAL PROJECT	\$1,310.8	\$1,310.8	\$0.0	\$0.0
NEW REQUIREMENTS				
CONSTRUCTION	\$1.9	\$11.7	\$9.8	\$0.0
PROFESSIONAL SERVICES	0.7	0.8	0.1	0.0
REAL ESTATE	0.0	0.0	0.0	0.0
UTILITY/FORCE ACCOUNT	0.0	0.0	0.0	0.0
SPECIAL PROGRAMS	0.0	0.0	0.0	0.0
CONTINGENCY	0.4	0.1	(0.3)	0.0
TOTAL NEW REQUIREMENTS	\$3.0	\$12.6	\$9.6	\$0.0
GRAND TOTAL	\$1,313.B	\$1,323.4	\$9.6	\$0.0

Forecast Variance Analysis

There is no forecast variance this period.

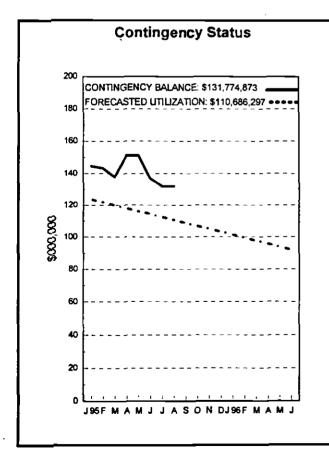


Budget Status Analysis

There is no budget change for the month August 1995.

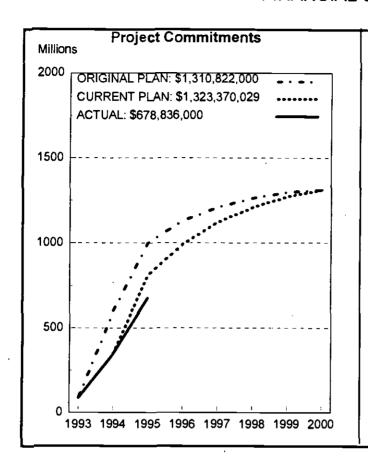
The Current Budget is in excess of the Original Budget by \$3.0 million dollars. This is largely due to the establishment of PBCR #1.

The Forecast is in excess of the the Current Budget by \$9.6 million dollars. This is largely due to the establishment of New Requirements forecasts for a number of the Construction and Professional Services line items. Please refer to page FD-3 for a more detailed explanation of the Current Budget vs Forecast variances.



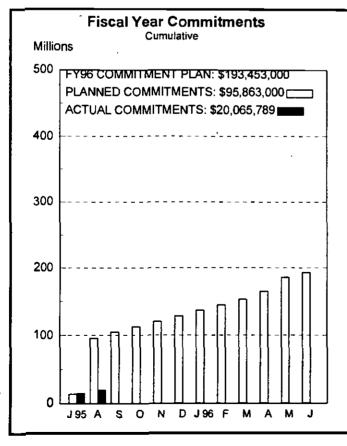
Contingency Status Analysis

The forecast contingency did not change this reporting period.



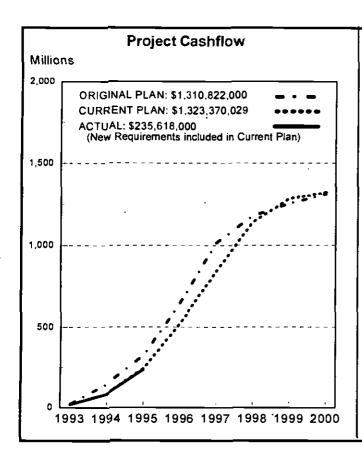
Project Commitments Analysis

Project Planned cumulative commitments through August 1995 were \$784.7 million. The actual cumulative commitments were \$678.8 million, or 86.5% of the commitments planned to be made by this point in the project



Fiscal Year Commitments Analysis

Planned commitments for August 1995 were \$81.9 million. However, a majority of these planned commitments were for Contract C0321 Universal City Station (\$68 million), Access Road Demolition (\$2 million), and Real Estate Acquisitions (\$4 million) all of which experienced delays. Actual commitments for August were \$4.9 million. These were primarily comprised of Utility/Agency Force Accounts (\$2.7 million) and Real Estate Acquisitions (\$2 million).



Project Cashflow Analysis*

Project Planned Cashflow has been revised as of August 1995.

Project Planned Cumulative Expenditures through the August 1995 period is \$261.5 million; actual expenditures are \$235.6 million or 17.8% of the total forecast. Actual expenditures are currently lagging behind planned expenditures due to payment processing delays in Construction contracts B251 and C0301. Also, Contract C0331 work is behind schedule which is currently reducing the anticipated values of the progress payments. Expenditures are expected to peak in fiscal years 1996 and 1997 due to the major facilities contracts which have been awarded in fiscal year 1995.

*Actual Expenditures lag one month behind the current period due to LACMTA processing requirements.

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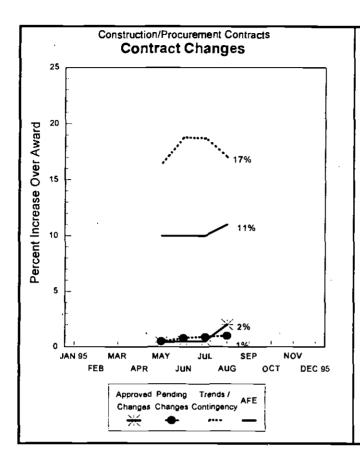
Fiscal Year Cashflow Analysis*

The Total Project Cashflow has been revised as of August 1995 which impacts the current fiscal year (FY) plan.

Total Planned FY 96 expenditures are \$281.8 million. Current FY 96 Actual Expenditures through July 1995 is \$12.9 million. Planned FY 96 expenditures for July 1995 is \$25.9 million. The current period variance is largely due to the unrealized expenditures against the Insurance Line Item and lower than anticipated values for Contracts B251, C0301 and C0351.

Footnote: Actual Expenditures are lagging one month behind the current period. Also cashflow dollars to go have been revised as of 08/95.

^{*}Actual Expenditures lag one month behind the current period due to LACMTA processing requirements.



Contract Changes Analysis

Approved changes and pending changes, together, account for approximately 3% increase over contract award. As construction progresses, this low percentage is expected to eventually increase to 17% as indicated by the trends/contingency line.

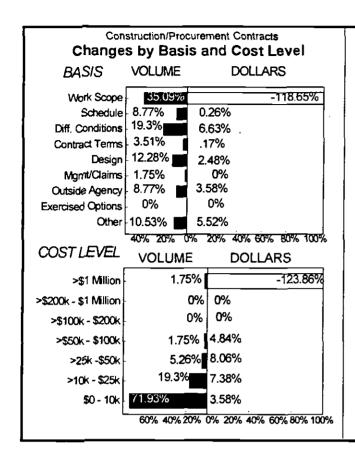
Construction/Procurement Contracts Contract Cost and Forecast Comparison to Budget

Dollars in Millions	Current	Previous	Variance
Original Contract Award	\$433.8	\$433.8	\$0.0
Approved Contract Value*	\$2.3	\$2.2	\$0.1
Current Value	\$436.1	\$436	\$0.1
Pending Logged Changes	\$3.1	\$3.8	\$0.7
Trends and Contingency	\$67.9	\$68.2	(\$0.3)
Total Forecast	\$512.8	\$508.0	\$4.8

*Includes Executed Change Orders and Approved Not-to-Exceed Costs.
Forecast and Budget for Awarded contracts only. Also, construction line ite
T03-Environ., T09-Testing, and T10-OCIP have been ornitled.

Contract Forecast Analysis

Pending logged changes for the period decreased by \$700,000. This was largely due to Contract C0351 Blast Relief Shaft Reduction as a value engineering change. The total forecast increased \$4.8 million due to an inadvertant omission of Contract H0631 in the previous reporting period.

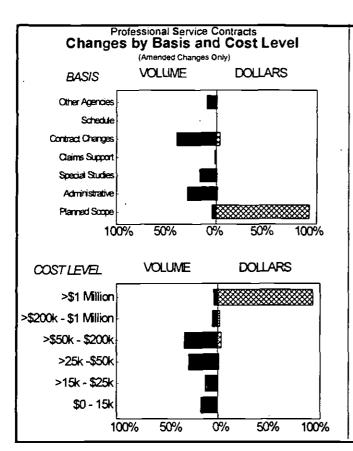


Change Basis Analysis

Changes in workscope have predominated both the volume and value of changes to date. Specifically, significant deletions associated with Contract C0331(Universal City to North Hollywood - Tunnel), account for credits to the LACMTA.

Change Cost Level Analysis

Over 91% of all changes to date have been processed within the authority of Resident Engineers (>\$25K). This trend is a positive sign indicating the designs, the contracting process and construction management efforts are all working in a coordinated manner.

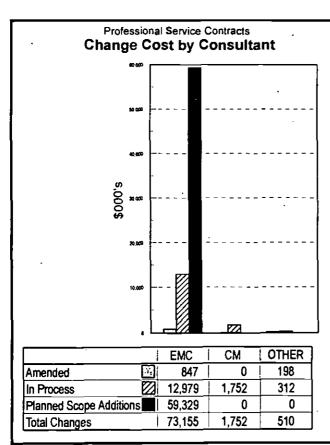


Change Basis Analysis

Approximately 44% of the Segment 3 - North Hollywood Extension change volume continues to be changes during the design phase of non-awarded construction contracts.

Change Cost Level Analysis

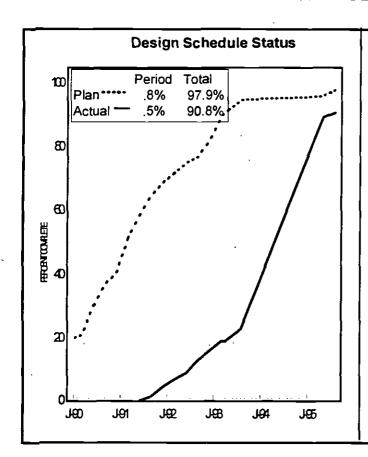
As shown on the Cost Level Analysis chart, the LACMTA Board reviews 94% of all change costs associated with the North Hollywood Extension or \$61 million of a total change cost of \$64 million. This equates to 9% of the total change volume, or seven of the 75 total changes.



Professional Services Change Analysis

No contract amendments were approved this period. Amendment No. 6 to EMC Contract Work Order #004 is scheduled for submission to the LACMTA Board at its September 27, 1995 meeting.

Planned Scope Additions are services which were anticipated or identified at the inception of the contract work order 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.



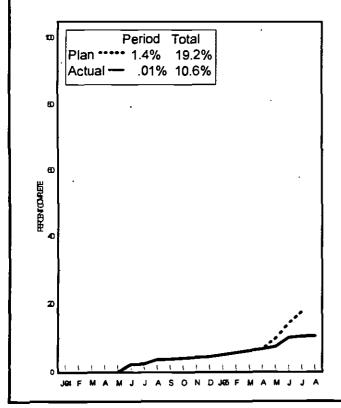
Design Schedule Analysis

The overall design through August 25, 1995, was 90.8% complete versus 97.9% planned, which reflects a schedule performance index of 93%.

Progress is behind by 7% as a result of design changes to Universal City contracts and deferral of systems design.

Active design efforts are underway for Contracts C1610, B612, B620, H0631 and various systems contracts. Contract C0326 has been repackaged into three separate contracts—C1326, C2326 and C3326 and work will start after LACMTA approves the consultant change request.

Construction Schedule Status

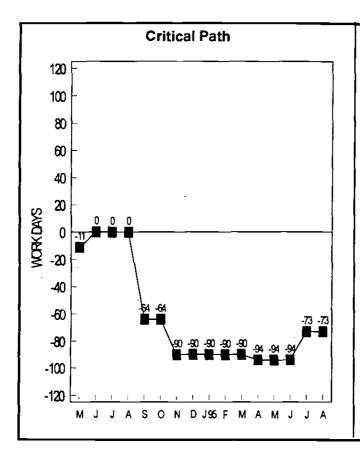


Construction Schedule Analysis

Construction progress has slipped due to Contract C0331 tunnel mining delays, delayed Notice to Proceed for Contracts C0301, C0311, C0321 and C0351.

Contract B251H work package is being prepared and will be transferred from B251 to C0301 as a change order.

LACMTA, P-D, JMA and EMC staff continue to develop a revision to the access at the North Hollywood Station to allow more flexible access for the trackwork installation.



Critical Path Analysis

The project critical path is currently 73 work days behind schedule or 104 calendar days. The current ROD shown is August 29, 2000.

The critical path begins with Contract C0311 between Station 630+00 and Universal City Station. The late design and award of this contract has left the project over four months behind schedule.

Efforts to mitigate the delays will continue. JMA believes that there is opportunity to recover the time and to be able to meet the ROD of May 17, 2000.

Contract Description	Award Date
C0321	09/27/95

Three Month Contract Schedule

Three Month Contract Schedule Analysis

Contract C0321 bids were opened on July 19, 1995. In response to a court order, LACMTA may have to rebid.

No other contracts are schedule for bid during the next three months.

Real Estate Status

	Number of Parcels Rquired	Number of Parcels Available
This Month	232	87
Last Month	232	80

Real Estate Analysis

To date, 87 parcels have been acquired. Seventy-seven of these parcels were acquired through negotiated acquisition and the remaining parcels were acquired through condemnation.

There are two parcels currently projected in the worse case scenario not to be available by the scheduled need dates.

Contract Closeout Status

Contract Number	Contract Description	Projected Closeout
C0328	Universal City Demo Ph I	Oct 95
C0329	Universal City Demo Ph II	Feb 96
	<u>.</u>	

Closeouts Completed 0

Closeouts in Process 1

Closeouts Remaining 15

Contract Closeout Analysis

Currently, one contract, Contract C0328 (Universal City Station Site Demolition), is being closed out.

While there are two facility contracts projected to close out, there are no systems contracts projected to close within the next 12 months.

To date no contract closeouts have been completed.

AREAS OF CONCERN

New Item

Contract C0321 Universal City Station

Concern/Impact

Contract C0321 may be re-advertised for bid causing delays in the schedule and increase in costs.

Status/Action

If required to be rebid, Contract C0321 will assume the critical path of the overall project. Revenue Operations Date will be delayed to November 16, 2000, an additional 79 calendar days beyond the current forecast date of August 29, 2000.

Review of schedule mitigation measures are underway. It is anticipated that a resequencing of contract interfaces will be required to reduce adverse schedule and cost impacts.

Ongoing Item

Design Budget Adjustments

Concern/Impact

The process for approval of Consultant Changes Requests and subsequent Contract Amendments is under review. Recent delays in the current process are impacting performance of design activities.

Status/Action

EMC Project Administration is communicating with various elements of the LACMTA to determine how contract work order funding can be increased outside of the normal Consultant Change Request process.

LACMTA personnel have identified a variation of a Project Implementation Plan as being a possibility to increase funding for a contract work order before the shortage becomes a problem.

Ongoing Item

Construction Management Services Transition From Parsons-Dillingham (P-D) to JMA (Jacobs Engineering Group, Mott MacDonald-Hatch, ACG Environments)

Concern/Impact

Ensure coverage of ongoing construction projects.

Status/Action

LACMTA, P-D, and JMA commenced coordination in the month of July 1995 at the management and staff levels. Transition efforts are ongoing. JMA has assumed responsibility for day-to-day management of Contract C0301 (Hollywood/Highland Station and Tunnels); Contract C0311 (Tunnel Section from Station 630 to Universal City Station); and various overall project functions. Complete transitioning of responsibility is expected by September 1, 1995.

Ongoing Item

Acceptance of Systems Schedule Revised Baseline

Concern/Impact

The EMC has proposed a new baseline schedule for systems procurement contracts and for the remaining systems design contracts. The new schedule reflects delays and changes in the facilities contracts. LACMTA is reviewing the proposal.

Status/Action

The EMC prepared the schedule for submittal to the LACMTA for approval. The EMC has transmitted consultant change requests for the out of scope work to LACMTA. Approval and direction are pending.

Systems is currently proceeding with the baseline work as described in the record of negotiations and the contract unit descriptions based on the revised schedule. Negotiations with LACMTA for the remaining work and approval of the revised schedule are continuing.

Ongoing Item

Contract C0331, Line Section North Hollywood to Universal City Lack of Progress

Concern/Impact

The start of tunnel mining was delayed due to the Contractor's delay in assembling the tunnel shield machines (TSM). There is a concern that continued delays will further erode schedule "float" for this contract and follow-on integrated contracts. In addition, the mining operation must be conducted to ensure against ground settlement.

Status/Action

The LACMTA and its consultants are taking all necessary steps to ensure that the mining operation is started and progresses in a manner to ensure against ground settlement. This is to ensure the mining operation is implemented per specification procedures.

Tunnel mining has been repeatedly halted due to contractor's technical difficulties. The contractor modified one of the tunneling machines to prevent loss of ground and has begun grouting from the surface to prevent loss of ground. The contractor has submitted a written plan to control settlement. Tunneling is expected to resume by early September 1995.

Ongoing Item

Contract C0351 North Hollywood Station with Crossover and Tailtrack Access to Crossover Area

Concern/Impact

Access to crossover area, the C0331 Contractor must complete mining operations and this operation is encountering difficulties and delays.

Status/Action

The C0351 Contractor could be directed to delay taking access. The C0331 Contractor's mining operation is being closely monitored and the Contractor has been requested to provide a mitigation plan to recover schedule delays. The LACMTA and Contractor have agreed to modify the tunneling machine to prevent loss of ground. The C351 access milestones will need to be adjusted after the Contractor submits the baseline schedule.

Resolved Item

Contracts C0301, Hollywood/Highland Station and Tunnels; C0321, Universal City Station; C0351, North Hollywood Station with Crossover and Tailtrack

Concern/Impact

Redesign of selected ventilation shafts can save construction costs estimated at \$1-2 million. Design must be completed in time to avoid delays to contractor's station excavation.

Status/Action

The value engineering recommended redesign has been implemented on Contract C0351 with a change notice now being processed.

SAFETY SUMMARY STATUS

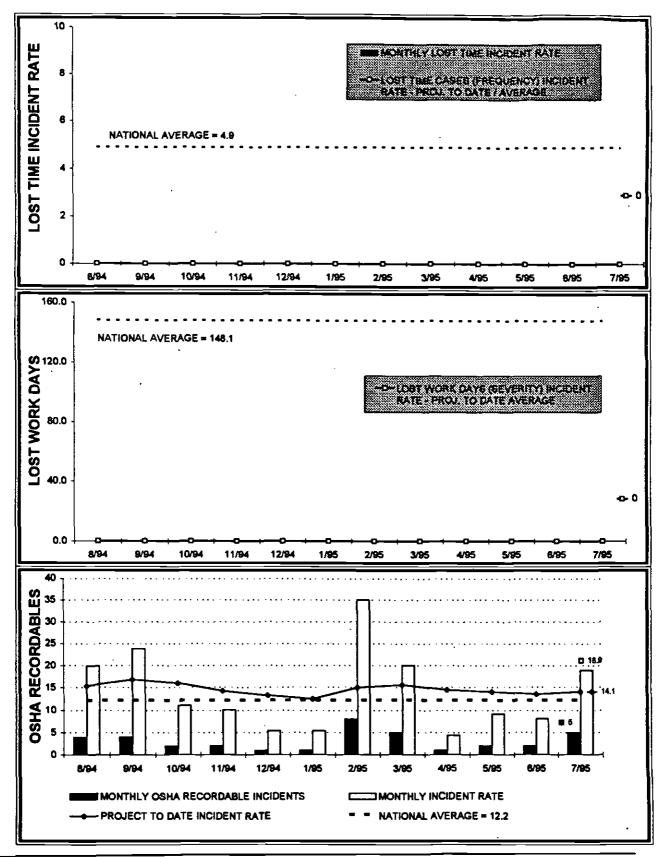
Safety Summary Analysis

The project achieved favorable statistics with zero lost time cases recorded for the month of July. This compares to the latest national average of 4.9 lost time cases per 200,000 hours worked. Similarly, the project rated a zero lost work day case rate as opposed to the 1992 national average of 148.1 days per 200,000 hours worked. (The Bureau of National Statistics no longer publishes lost work days incidence rate as of 1993.) Training efforts included Toolbox meetings, Substance and Drug Abuse, Field Safety Orientation, Job Hazard Analysis, Tunnel Safety, OSHA 500 30-hour Class and several first aid and CPR courses conducted for the benefit of project personnel.

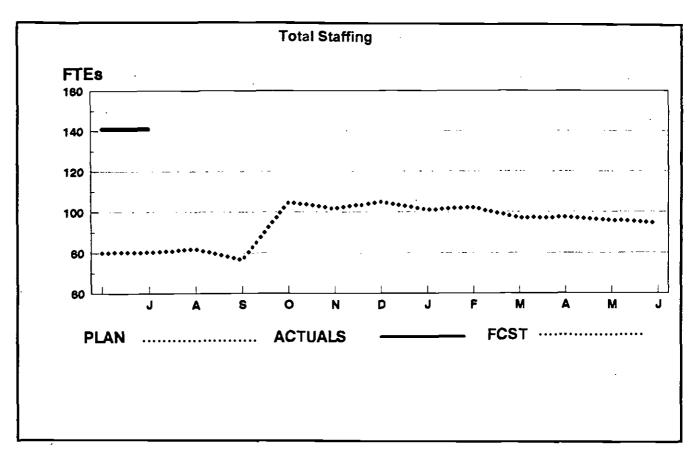
Due to organizational changes and scheduling conflicts, the monthly Metro Red Line safety meeting was not held this month.

The monthly safety engineers meeting was held July 12, 1995. The meeting was opened by Lou Hubaud with brief comments and open forum followed. Jim Veatch presented updated information on the safety incident at Contract B251 which involved the tunnel remining collapse. Information was circulated to allow for roster updates from all interested parties. The meeting closed with additional general discussion including a review of the plans for the All Hands Meeting.

METRO RED LINE SEGMENT III SAFETY SUMMARY



PROJECT STAFFING STATUS



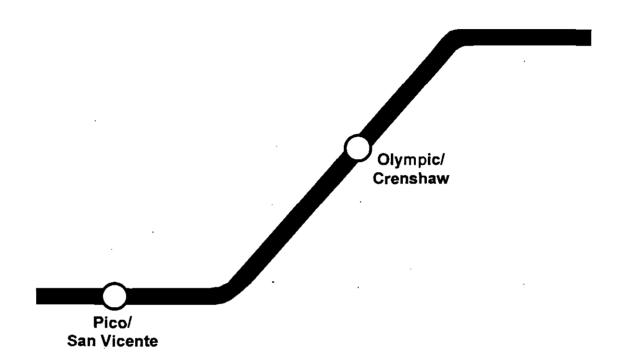
Staffing Analysis

The total staffing actuals are higher than planned due to Parsons Dillingham and JMA scope of work not being defined and negotiated, the Engineering Management Consultant providing early facility design services for Contracts C0311, C0301, C0351 and the processing of a greater volume of consultant change requests. Staffing plans for the two construction management consultants will be provided when negotiations are completed.

WETRO RED LINE SEGMENT 3
MID CITY EXTENSION
EXECUTIVE SUMMARY

Major Activities This Period





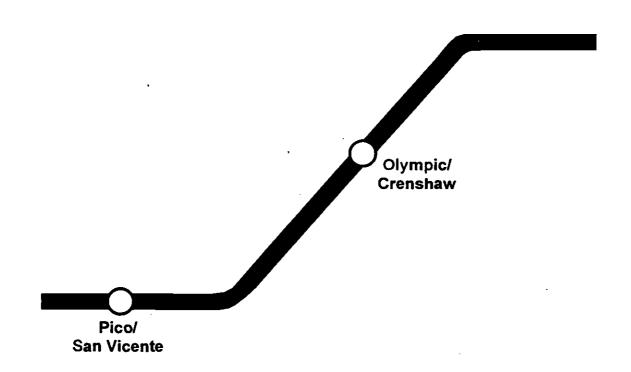
SYSTEMWIDE ACTIVITIES

The project is again progressing ahead as EMC is providing the required design support to the SEIS/SEIR.

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Major Activities Next Period





SYSTEMWIDE ACTIVITIES

Analysis for the Draft SEIS/SEIR is scheduled to complete next period.

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FINANCIAL STATUS MID CITY EXTENSION

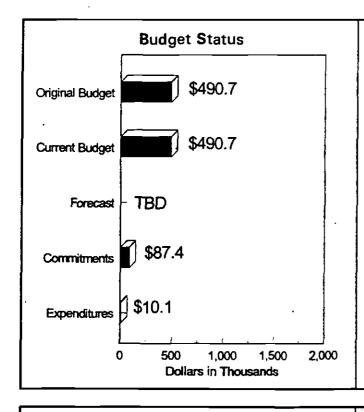
Budget/Forecast Variance

COST SI SMENT	CURRENT	CURRENT	AARIANGE	AUGUST CHANGE IN
COST ELEMENT	BUDGET	FORECAST	VARIANCE	FORECAST
CONSTRUCTION	\$334,139	TBD	N/A	N/A
PROFESSIONAL SERVICES	98,133			
REAL ESTATE	53,303		,	
UTILITY/FORCE ACCOUNT	5,0BB			
SPECIAL PROGRAMS	0			
CONTINGENCY	0			
PROJECT REVENUE	0			
TOTAL PROJECT	\$490,663	TBD	N/A	N/A
NEW REQUIREMENTS				
CONSTRUCTION	\$0	TBD	N/A	N/A
PROFESSIONAL SERVICES	0			
REAL ESTATE	0			
UTILITY/FORCE ACCOUNT	0			
SPECIAL PROGRAMS	0			
CONTINGENCY	0			
TOTAL NEW REQUIREMENTS	\$O	TBD	N/A	N/A
GRAND TOTAL	\$490,663	TBD	N/A	N/A

Budget/Forecast Variance Analysis

The forecast information is not shown due to the unknown alternate approach. As soon as the MTA Board selects the alternate approach, the forecast will be adjusted. Board action is planned for January 1996.

FINANCIAL STATUS MID CITY EXTENSION



Budget Status Analysis

The current budget will be adjusted as required once the MTA Board selects the alternate approach. This board action is scheduled for January 1996.

Remaining Contingency as % of Remaining Forecast (Remain. Fcst. = Fcst. - Expend.)

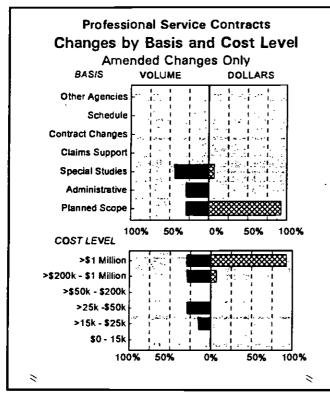
N/A

Remaining Contingency Analysis

N/A

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FINANCIAL STATUS MID CITY EXTENSION



Change Basis Analysis

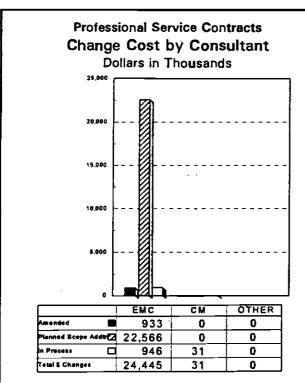
Approximately 43% of the Red Line Segment 3 Mid City change volume continues to be Special Studies. Mainly Environmental Sampling and Testing and Alignment Reassessment.

An example of this would be CCR R83-E0070-88.01-Mid-City Segment-3 Environmental Sampling/Testing. It was realized that performing this sampling and testing concurrent with the geotechnical investigation would result in a cost savings for the project.

Change Cost Level Analysis

As shown on the Cost Level Analysis chart opposite, the MTA Board reviews 99% of all change costs associated with the Red Line Mid City Project, or \$24M of a total change cost of \$24.3M. This equates to 57% of the total change volume or 4 of 7 total changes.

The MTA Project team reviews all CCR's yet only has authority to sign for a small portion (less than 1%) of the overall change cost.



Professional Services Change Analysis

One (1) contract Amendment approved this period, EMC CCR R83-E0070-272.00 - Mid City Environmental Evaluation for \$933K.

OATA SOURCE:

CCS: CCR REPORTS

<u>Planned Additional Scope</u> = 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.

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AREAS OF CONCERN MID CITY EXTENSION

NEW

Item

Mid City Master Schedule

Concern/Impact

The draft SEIS/SEIR when completed will define the project alternates. The MTA Board will be able to make a decision on the preferred alternate for the final SEIS/SEIR. The overall schedule for the design and construction is on hold until the completion of the final SEIS/SEIR. The impact to ROD cannot be determined until the preferred alternate is selected. The current SEIS/SEIR schedule is being reviewed to mitigate the schedule delays.

Status/Action

The SEIS/SEIR is proceeding with a current goal to have the alternates to the MTA Board at the regular January 1996 Meeting.

ONGOING

Item

SEIS/SEIR Study

Concern/Impact

The Segment 3 Mid City Extension SEIS/SEIR is 59% complete as of August 1995. The study has incurred delays due to the environmental Engineering design support being delayed along with other delay issues.

Status/Action

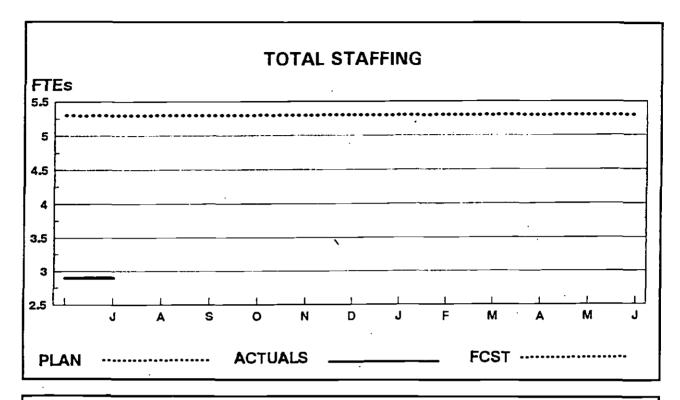
The design support has resumed and is currently supporting the draft SEIS/SEIR study. The schedule for the SEIS/SEIR study has been revised to indicate the current obtainable date to have the study available to the MTA board in January of 1996 for the decision on the preferred alignment.

RESOLVED

NONE

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PROJECT STAFFING STATUS MID CITY EXTENSION



STAFFING ANALYSIS

The total staffing actuals are lower than planned due to delays in initiating Preliminary Engineering activities.

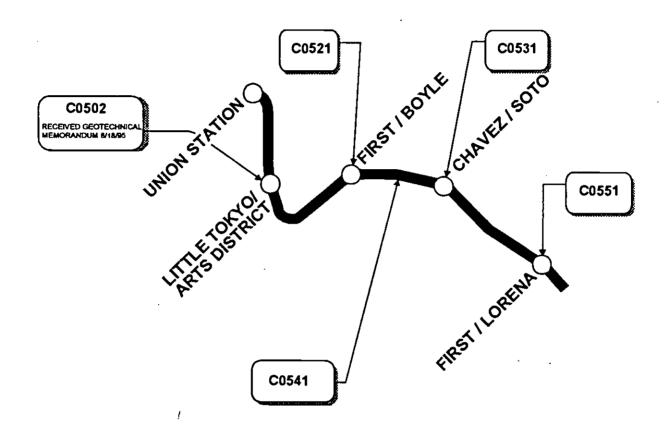
The EMC is providing project support to Environmental Rail on an "as-needed basis" during the development of the supplemental Environmental Impact Statement and the coordination of the monthly PMSR. Staffing will continue to fluctuate based on the MTA's needs through the end of FY'96.

Note: Total Staffing Chart includes EMC, CM, and MTA staffing only

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WIETRO RED LINE SEGMENT 3
EAST SIDE EXTENSION
EXECUTIVE SUMMARY

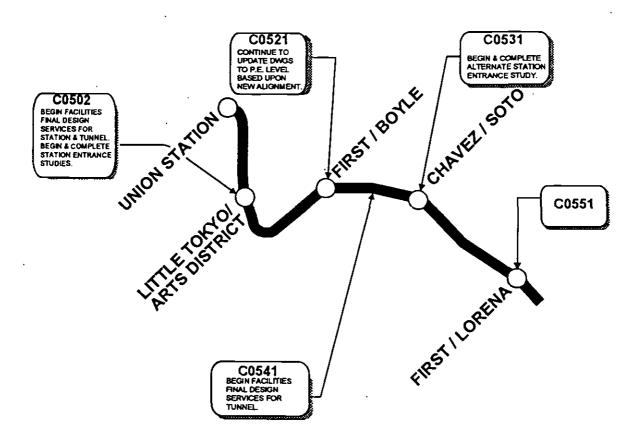
Major Activities This Period



SYSTEMWIDE ACTIVITIES

CONTINUED RIGHT-OF-WAY CERTIFICATION, ADVANCED UTILITIES RELOCATION CONTRACTS AND RESEARCHING BUILDING PLANS AT THE STATION SITES. CONTINUED CROSSOVER STUDY. CONTINUED UPDATING END MODULES WITH VERTICAL FANS DESIGN. BEGAN TPSS SIMULATION STUDY. BEGAN PROJECT IMPLEMENTATION PLAN FOR CONTINUED ENGINEERING SERVICES WITHIN \$6M AFE.

Activities Planned For Next Period



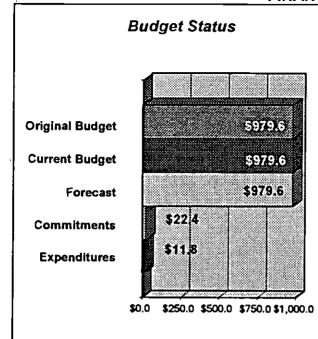
SYSTEMWIDE ACTIVITIES

CONTINUE RIGHT-OF-WAY CERTIFICATION, REVISE RIGHT-OF WAY CERTIFICATION SCHEDULE, BEGIN SYSTEMS ATC STUDY, BEGIN BUILDING SYSTEMS CELL LIBRARY, CONCLUDE TPSS SIMULATION STUDY, CONTINUE GEOTECHNICAL SERVICES, AWARD CONTRACTS TO BUILDING PROTECTION SURVEY, POTHOLING AND PHOTOGRAMMETERY SUBCONTRACTORS.

Budg	get/Forecast Va	riance (x \$1,0	00) .	
COST ELEMENT	CURRENT BUDGET	CURRENT FORECAST	VARIANCE	AUGUST CHANGE IN FORECAST
CONSTRUCTION PROFESSIONAL SERVICES REAL ESTATE UTILITY/FORCE ACCOUNTS SPECIAL PROGRAMS	\$624,556.0 219,522.0 26,570.0 14,092.0 0.0	\$624,865.0 227,635.0 26,570.0 14,092.0 0.0	\$309.0 8,113.0 0.0 0.0 0.0	\$0.0 0.0 0.0 0.0 0.0
CONTINGENCY PROJECT REVENUE	94,861.0	86,439.0	(8,422.0)	0.0
NEW REQUIREMENTS CONSTRUCTION PROFESSIONAL SERVICES REAL ESTATE UTILITY/FORCE ACCOUNTS SPECIAL PROGRAMS CONTINGENCY PROJECT REVENUE	\$979,601.0	\$979,601.0	\$0.0	\$0.0
TOTAL NEW REQUIREMENTS	\$0.0	\$0.0	\$0.0	\$0.0
GRAND TOTAL	\$979,601.0	\$979,601.0	\$0.0	\$0.0

Budget/Forecast Variance Analysis

Budget and forecast remain at the same value. No trends were issued during the reporting month.

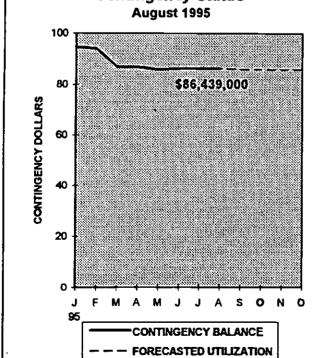


Dollars in Millions

Budget Status Analysis

No change in Budget for current reporting period.





Remaining Contingency Analysis

To date, project trending has reduced contingency by \$8,422 million.

Preliminary design is 100% complete which relates to 30% complete of the total design effort.

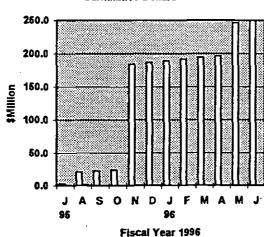
Project Commitments

Project Commitments Analysis

New commitments for the reporting period include \$50,000 for the Dept. of Water & Power, \$25,000 for Southern California Gas Company, \$25,000 for Pacific Bell, and \$25,000 for Dept. of Transportation. Original plan is impacted because of delayed full NTP for final design.

Fiscal Year Commitments

FISCAL YEAR 1996 BUDGET \$249,775,000 Cumulative Dollars

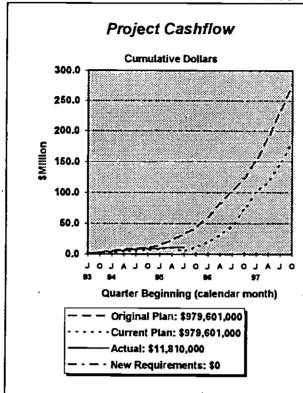


☐ FY96 Planned Commitments (Current Plan)

■ FY96 Actual Commitments

Fiscal Year Commitments Analysis

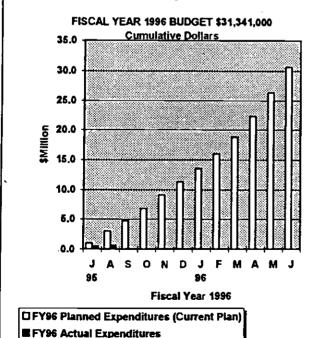
Commitments delayed due to the delay in full NTP for final design.



Project Cashflow Analysis

Original plan is impacted because of delayed full NTP for Final Design.

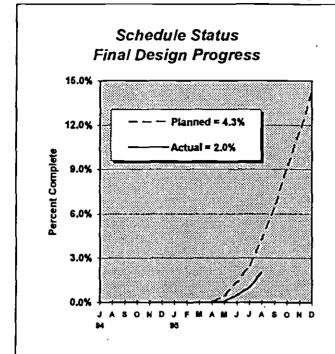
Fiscal Year Project Cashflow



Fiscal Year Cashflow Analysis

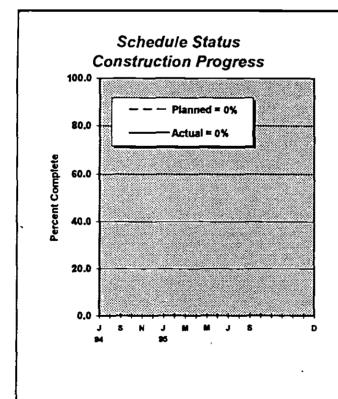
The planned expenditures have not been met because of the delayed start for full final design.

SCHEDULE STATUS



Final Design Schedule Progress Analysis

Design began on 5/15/95 with a "Limited Notice to Proceed" with limited scope authorization.



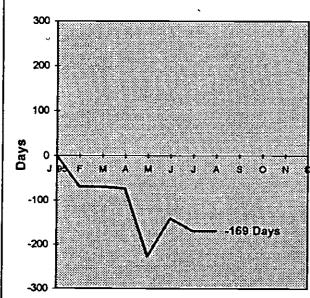
Construction Schedule Progress Analysis

Not applicable at this time.

SCHEDULE STATUS

Current Critical Path

PROJECT FLOAT TREND ANALYSIS (CALENDAR DAYS)



Current Critical Path Analysis

Design of both C0531 and C0541 is on the critical path. The critical path then becomes the C0541 bid, award, and tunneling process. When tunneling is complete, access to Chavez/Soto station box is transferred from the C0541 contractor to the C0531 contractor, as is the critical path. When station concrete is substantially complete, trackwork access is provided and the critical path becomes trackwork installation.

Eighty-six days of negative float was mitigated by moving the start of final design services (full funding) from 11/29/95 to 8/1/95.

Forecast R.O.D. now stands at July 3, 2003.

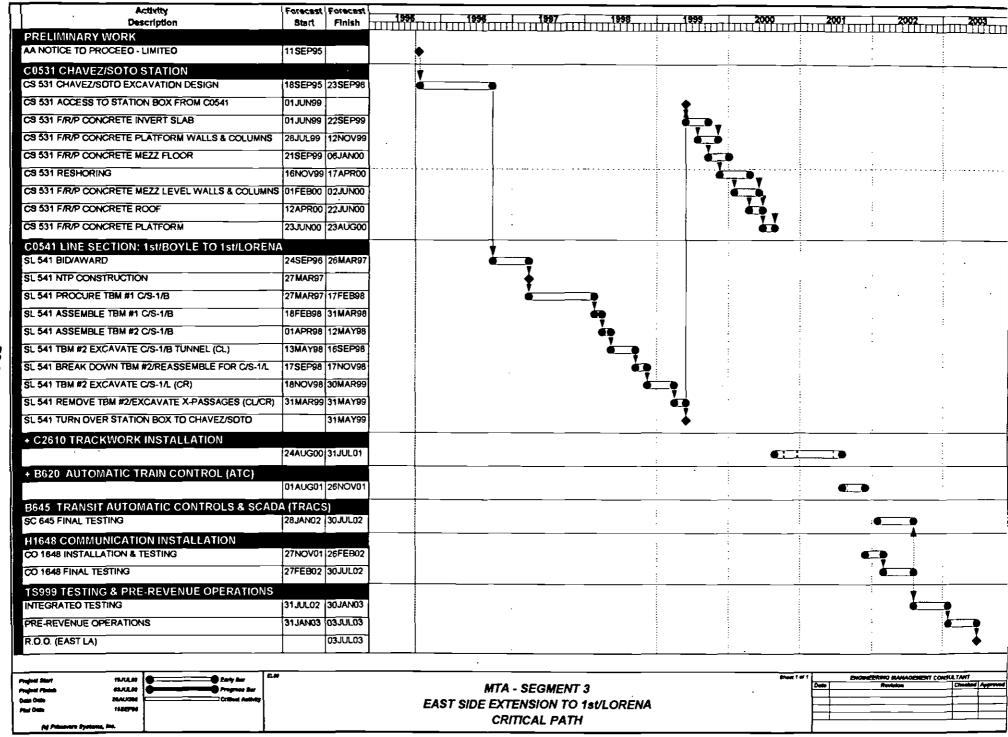
3-Month Contract Schedule

Contract Description

Advertise Date

3-Month Contract Schedule Analysis

No contracts are scheduled during this period.



SCHEDULE STATUS

Real Estate Status

	·		PARCELS	PAR	CELS NOT
		NUMBER	NOT	AVAILABLE	
	NUMBER	OF	AVAILABLE	(BEHING	SCHEDULE)
	OF	PARCELS	(ON		AVG. DAYS
	PARCELS	AVAILABLE	SCHEDULE)	NUMBER	BEHIND
THIS MONTH	198	0	198	0	0
LAST MONTH	181	0	181	0	0

Real Estate Analysis

To date, 19 full-take parcels have been certified. No parcels were scheduled to be acquired during this period. To date, 6 parcels are pre-owned by by MTA that relate to this project.

NEW 1

Item

There are ten systems contracts for the East Side Extension Project which are options, staged NTP's or staged releases to existing Segment 2 contracts.

Concem/Impact

The Federal Acquisition Regulations (FAR) states that the contracts with options which will require an extension of time beyond five years cannot be exercised and remain compliant with the law. The East Side Extension contracts are required to be exercised within 48 months of the initial NTP of the contract. Because of the delayed start to final design services, some impacts will be encountered.

Resolution

Impacts will be determined to see if new procurement of these contracts are necessary.

ONGOING

Item

Recent U.S. Congressional ruling on affirmative action.

Concem/Impact

The proposed selection of section designers could become null and void, possible rebidding would occur which have a minimum three month impact to the schedule. The Construction Management Contractor selection has been delayed by one month.

Status/Action

Awaiting California Supreme Court ruling.

ONGOING

Item

Protest to the Section Designer selection was received by MTA in March 1995.

Concern/Impact

If the selected Section Designers are not approved because of the protest, the process of selecting new Section Designers will have a minimum three month impact to the schedule.

Status/Action

MTA Board action has been re-scheduled from July 1995 to September 1995.

ONGOING

ltem

The Record of Decision was approved with a Revenue Operations Date of November 2002. This date was based upon a scheduled start date for Final Design services in January 1995. On April 25, 1995, MTA Board approved EMC to start limited design services for geotechnical, advanced utilities and right-of-way certifications within a Notice-to-Proceed amount of \$5 million. Authorization was given to EMC on May 15, 1995 to begin the aforementioned scope for \$2.3 million.

Concem/Impact

To date, the delayed impact for start for final design services has resulted in 169 working days negative float.

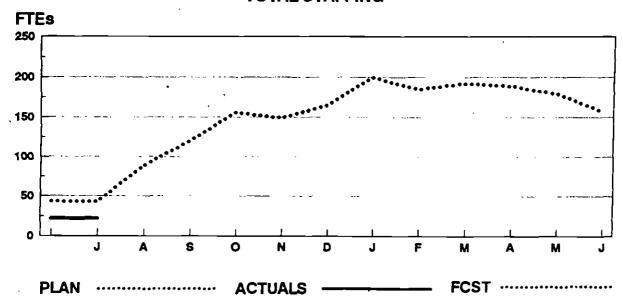
Resolution

On July 26, 1995 the MTA Board approved an additional \$1 million bringing the total AFE to \$6 million. This authorization was approved for start of final design services, as originally planned so that no further delays to the schedule would be encountered.

SAFETY SUMMARY (N/A AT THIS TIME)

RED LINE SEGMENT 3

EASTERN EXTENSION TOTAL STAFFING



STAFFING ANALYSIS

The actuals are lower than planned due to delays in initiating Final Design.

VEHICLE ACQUISITION PROJECT EXECUTIVE SUMMARY

EXECUTIVE SUMMARY

August '95 was the 18th month of the Standard Car Program. In August, we met with Siemens Duewag to discuss general engineering issues (seat design, battery sizing, exterior lighting); with SDC and IFE to discuss door system design and operation; with SDC's new program team to discuss key issues (schedule, weight, HVAC system design) and the conduct of the program; with SDC and CCI to discuss progress of carshell design and construction; with SDC, the MTA *Interior Colors Committee*, to facilitate selection and approval of the interior colors and materials; with SDC and TRW to review progress of the ATPDP; and with Transrail, AEG, and SDC to discuss program open items with respect to the Auxiliary Electric and Propulsion Systems.

Two MTA Board actions were the most significant program events of the month. The first was the MTA adoption of their *Cost Containment Committee's* recommendation that the Standard Car fleet be reduced from 74 cars to 52 cars (P2000 Contract Option No. 5). SDC has stated that should this reduction be implemented, there would not be a sufficiently large enough market "bridge" for their Carson to sustain operation beyond the present order. SDC will also likely abort their plans to fabricate the Standard Car trucks in Carson. LTK is awaiting formal direction to commence negotiations with SDC regarding the exercise of this option.

The second MTA Board action was to request a thirty-day extension to the driverless upgrade decision (P2000 Contract Option No. 3) due date. In consideration of extending this Option date, SDC requested 60 days of schedule relief, which the MTA is considering. LTK is awaiting formal direction from the MTA regarding this issue.

Other key issues in August were schedule and weight. In a meeting at CCI's facility in Carson, SDC informed us that the first carshell would not be complete until the end of February, 1996. This would put the program back about four to six months, or two to four months, if the two months of schedule relief is granted to SDC by the MTA. SDC explained that there were several reasons for the delay, including:

Now that the overall vehicle design is beginning to firm up, and supplier weight estimates have more validity, the vehicle is projected to exceed the allowable weight limit. In an effort to bring the vehicle weight back under control, SDC has directed their carshell designer, Duewag, to change to a more weight efficient design. To date, these efforts have resulted in changes to over 1200 parts, precluding the start of carshell construction until the weight-saving effort is complete.

The supply of steel to CCI and it's satellite vendor base is a problem. As CCI explains, they do not represent a large enough market to the steel mills, which are slow in material deliveries. Compounding the problem, the wrong steel was sent to some suppliers, and had to be returned. Finally, CCI is beginning to experience a high rejection rate of parts being delivered from its local supplier base.

SDC does not believe they can construct a work-around to mitigate this delay. They will submit a re-baselined schedule in early September. LTK will review this schedule in depth and advise of any suggestions we may have for mitigating delay.

With regard to the weight issue, we received an analysis of the problem from SDC (Ref. SME-632) which offers that although SDC and Duewag have reduced carshell weight by 1400 lbs., and that other savings have been identified, both the Standard and Prototype. Cars are projected to come in at almost exactly the specified limit of 142,500 lbs. This leaves no design contingency. SDC considers that a prudent "buffer" would be on the order of 2000 lbs. SDC is continuing to pursue other weight saving measures to build up their contingency. LTK will assist them to the extent possible in this endeavor.

PROGRAM SUMMARY

CAR DELIVERY/COST/WEIGHT SUMMARY FOR AUGUST 1995

PROJECTED VEHICLE DELIVERY DATES

Schedule Data Date: Awaiting submittal of SDC's updated Program Schedule

Vehicle Number: Delivery Date: Total Float:

Prototype No. 1 days
LRV No. 1 days
LRV No. 15 days
LRV No. 34 days
LRV No. 72 days

SIEMENS DUEWAG CONTRACT BUDGET STATUS

Contract Totals to Date:

Total Contract Value: \$214,370,314

Total Paid to Date: \$48,519,379 including EPA adjustments of \$2,606,359

Total ATPDP Paid to Date: \$6,489,703
Total Retained to Date: [4,591,302]

Payments and Retainage this Month:

Progress Payments: 0

EPA Adjustments: \$475,186
Change Orders: None
ATPDP: \$275,902
Retainage: [\$457,143]

PROJECTED VEHICLE WEIGHTS

Standard Cars:

Specified Weight (AW4): 142,508 lbs. Projected Weight (AW4): 142,508 lbs

PROGRAM SUMMARY (CON'T)

Prototype Cars:

Specified Weight (AW4):

142,508 lbs.

Projected Weight (AW4):

142,508 lbs.

ATPDP Update for August 1995

Product A: Carbody Structural Optimization

Awaiting EMC Report

Product B: Rail Sentry Obstacle Detection

Awaiting EMC Report

Product C: Advanced Air Conditioning

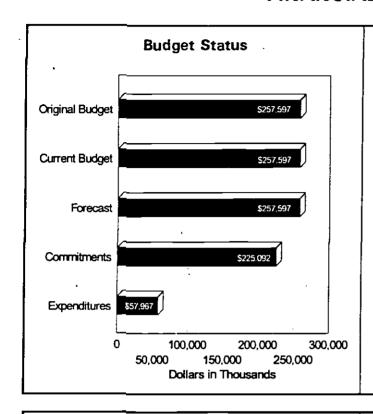
Awaiting EMC Report

COST ELEMENT	CURRENT BUDGET (\$000)	CURRENT FORECAST (\$000)	VARIANCE (\$000)	AUGUST CHANGE IN FORECAST (\$000)
CONSTRUCTION	\$232,370	\$229,830	(\$2,539)	\$0
PROFESSIONAL SERVICES	12,960	19,505	6,544	0
PROJECT CONTINGENCY	12,267	8,262	(4,004)	0
PROJECT REVENUE	0	. 0	0	. 0
TOTAL PROJECT	\$257,597	\$257,597	\$0	\$0

Budget/Forecast Variance Analysis

There was no reconciliation for the month of August 1995 because there were no trends. The \$6.5 million variance in Professional Services is mainly due to the incorporation of a Project Budget Change Request (PBCR) for the E0350 contract, LTK Engineering Services (Trend #4).

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Budget Status Analysis

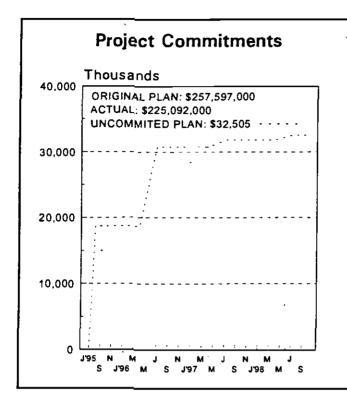
The Current Project Budget is \$258 million with a current forecast of \$258 million. The Forecast includes all trends (#001 - #013).

Remaining Contingency As % of Remaining Forecast (Remain. Fcst. = Fcst. - Expend.) 8% Remaining Remaining Contingency Forecast \$199,630,000 \$8,262,000 6% 0 00000000000 4% 2% 0% M A M

Remaining Contingency Analysis

The remaining Project Contingency for the Los Angeles Light Rail Vehicle is 4.1% of the remaining forecast for the period of August 1995. Project Contingency has remained at \$8.26 million.

FINANCIAL STATUS

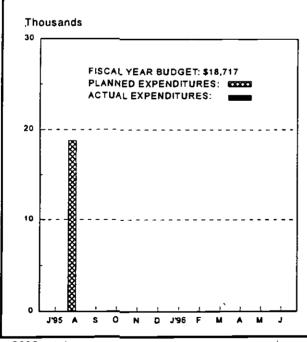


Project Commitments Analysis

Project planned commitments are \$257.6 million; actual commitments are \$225.1 million or 87.4% of the total forecast. There was nothing committed for the month of August 1995. Fiscal year commitments for Project Administration, MY001 is expected to occur next period.

The chart is based on uncommitted amounts. Actual commitments are through July 1995.

Fiscal Year Commitments



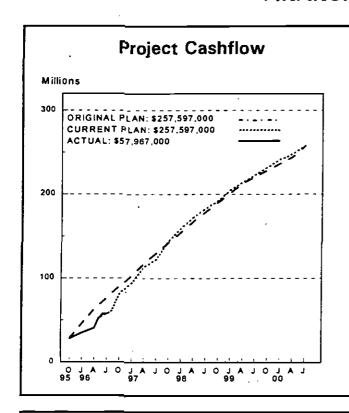
Fiscal Year Commitment Analysis

Planned commitments for the fiscal year are \$18.7 million; actual commitments for July 1995 is \$0. Fiscal year commitments for Project Administration are expected to occur next period.

The chart is based on uncommitted amounts. Actual commitments are through July 1995.

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FINANCIAL STATUS

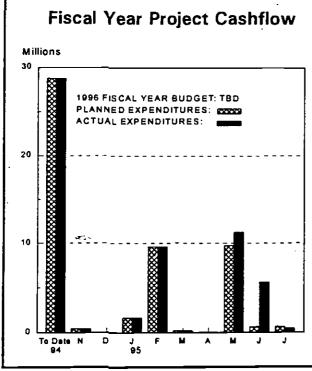


Project Cashflow Analysis

Project planned cumulative expenditures are \$257.6 million; actual expenditures to date are \$58.0 million or 22.5% of the total forecast. These expenditures are accounted for mainly by Contract P2000, General Engineering, Specialty Services and Project Administration.

A new cashflow will be created once the rebaselined schedule is submitted.

Actual expenditures are through July 1995.



Fiscal Year Cashflow Analysis

Planned fiscal year expenditures for 1996 will be determined once the rebaselined schedule is submitted. Actual expenditures for the current period are \$457,000.

Actual expenditures are through July 1995.

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FINANCIAL DETAIL

LA LIGHT RAIL VEHICLE PROCUREMENT (IN THOUSANDS OF DOLLARS)

STATUS OF FUNDS BY SOURCE

AUGUST 95

	TOTAL FUNDS	TOTAL COMM FUNDS		MENTS	EXPENDITURES		BILLED TO S	BILLED TO SOURCE	
SOURCE		AVAILABLE	\$ 	%	\$	% 	\$	% 	
FTA RSTP (ISTEA)	\$6,077	\$0	\$6,077	100%	. \$0	0%	\$0	0%	
FTA - OTHER	\$11,923	\$0	\$0	0%	\$0	0%	\$0	0%	
FED ISTEA STP	\$84,000	\$26,400	\$84,000	100%	\$20,029	24%	\$15,287	18%	
STATE PROP 116	\$33,550	\$16,398	\$33,550	100%	\$16,398	49%	\$16,398	49%	
PROP C	\$122,047	\$26,118	\$101,465	83%	\$21,540	18%	\$21,540	18%	
TOTAL	\$257,597	\$68,916	\$225,092	87%	\$57,967	23%	\$53,225	21%	

(1) BASED ON CURRENT BUDGET

NOTES: EXPENDITURES ARE THROUGH JULY 1995.

FINANCIAL DETAIL LA LIGHT RAIL VEHICLE PROCUREMENT

FUNDS BY SOURCE ANALYSIS

STATUS OF FUNDS ANTICIPATED

FED ISTEA STP

STATE APPROVED RESOLUTION TO ALLOCATE \$26.4M OF FEDERAL STP FUNDS. GRANT AWARD LETTER HAS BEEN RECEIVED BY MTA IN JUNE 95.

FUNDS ARE NOW AVAILABLE FOR DRAWDOWN.

METRO SYSTEM RCL- LA CAR - Design & Procurement CHANGE ACTION STATUS LOG: SUMMARY AS OF: 09/06/95

DHTRACT:	P 2000	Veldele Acquisition Project						CONFIDENTIAL MATERIA
CO *	CH #	. CHANGE TITLE	100010	EXECUTIO	COST	ŠĮ ŠĀYS	AUTIIORIZEO WA/ITE	WILL IN COURT
ECUTED CII	ANGES							
EXECUTED								
1,00	1.00	MISCELLANEOUS WORDING CHANGES, CONTRACT EXTENSION	D2/24/94	03/34/94	\$0.00	540	10.00	COMPLETEINO ACTION
2.00	2.00	TESTING LOCATION CHANGE, ADD THREE OPTIONS, AND MI	04/18/94	07/28/94	[\$1,000,000.00]	0	10.00	COMPLETERIO ACTION
TOTAL EX	CECUTED	: 2 CN.2			13 1,000,000.001	540	10.00	
EXECUTED	CHANGE	rs .						
3.00	3,00	C. O. 3 MATRIX ITEM NOS. 1,2,3,8,22 THROUGH 27,31,	Q8/25/94		\$0.00	0	10.00	CONTRACTORSIGN AND RETURN CO
3.00		C. D. 3, MATRIX ITEM NO. 7, ALLOW PROPULSION GROUP,	08/25/94		[\$224,294.00]		10.00	CONTRACTOIVSIGN AND RETURN CO
3.00		C. D. J. MATRIX ITEM HD. ID. WAIVER DF 0055 BAR CU	08135134		112,598.00)		10.00	CONTRACTORSIGH AND RETURN CO
3.00		C. D. 3. MATRIX ITEM NO. 37, REDUCE DRAKE SYS. PRO	08/25/94		(\$1,674.00)		10.00	CONTRACTOIVSIGN AND RETURN CO
3.00			00/24/94		10.00	0	10.00	
3.00		C. D. 3. MATRIX ITEM NO. 69, RELIEF FROM 100-119. 0	08/25/94		(14, 330.00)		10.00	
3.00		C. D. J. MATAIX ITEM NO. 105, INCREASE THE HUMOER	08/25/94		\$304,502,00	0	10.00	
3.00	11.00	C. D. 3 MATRIX ITEM NOS. 4, 13, 17, 18, 19, 32, 38,	08/24/94		10.00	0	10.00	CONTRACTORSIGN AND RETURN CO
TOTAL :		8 CH'S			171,656.00	0	10,00	
CH IN PRO	CESS							
	4.00	WHEEL FLANGE LUBRICATORS	04/13/95		10.00	0	10.00	CONTRACTOR/APPROVE CH
	12,00	DRIVERS CAB SEAT OPTION			10.00	٥	10.00	
	N IN PRO	CESS: 2 CN'S			10.00	D	10.00	

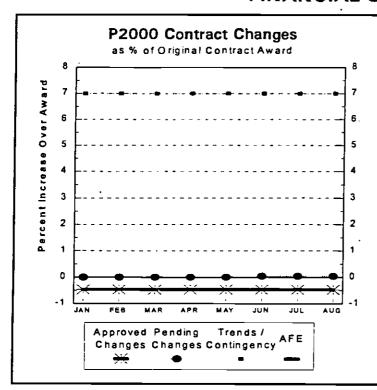
CHANGE STATUS SUMMARY:

AWARD VALUE: EXECUTED CHANGES: 3 CO'S	2 CN'S	\$215,370,314.00 1\$\$,000,000,001 \$40
CURRENT VALUE: AUTHORIZED INTEI:	o CN'S	\$214,370,314.00 40.00
CURRENT VALUE (ODLIGATED): OTHER PENDING:	10 CH'S 1EST LESS NTE AUTHORIZEO)	\$214,370,314.00 \$71,656.00 D
CANCELLED/WITHDRAWN:	D CN-\$	0.00
TOTAL LOGGEO:	12 CN'S	1214,441,970,00 540

CHAVEZ, SALVADO SUMMARY LOG OSIOGISE

FD - 9

FINANCIAL STATUS



Contract Changes Analysis

The figures for August 1995 are as follows:

Approved Changes.....(0.5%)

Pending Changes......0.04%

Trends/Contingency......7.0%

AFE......0.5%

P2000 Contract Contract Cost and Forecast Comparison to Budget

Dollars in Thousands	Current	Previous	Variance
Original Contract Award	\$215,370	\$215,370	\$0
Approved Contract Value*	(\$1,000)	(\$1,000)	\$0
Current Value	\$214,370	\$214,370	\$0
Pending Logged Changes	\$71.7	\$71.7	\$0
Trends and Contingency	\$14,988	\$14,988	\$0
Total Forecast	\$229,430	\$229,430	\$0
Constr. Budget	\$232,370	\$232,370	\$0

*Includes Executed Change Orders and Approved Not-to-Exceed Costs.

P2000 Contract Contract Forecast Analysis

The approved change value decrease is primarily due to a testing location change and the addition of three (3) options.

The pending logged changes increase is due to changes as a result of the Specification Review Conference.

\9508chg.doc

ONGOING

Item

Axle Design

Concern/Impact

SDC has submitted an axle design drawing consistent with the axle stress analysis; however, there are a number of other inconsistencies that must be resolved before the design *per se* can be approved. From the information we have received thus far, it appears that due to the enhanced strength of the steel proposed, we will be able to use the lighter, smaller axle proposed by Duewag. This will be carried as an Area of Concern until final resolution.

Status/Action

SDC/Duewag have submitted a final design. This submittal is presently under review.

Item

Vehicle Structure and Truck Design

Concern/Impact

It is our understanding that Duewag, SDC's subcontractor for carshell and truck design, is making significant changes to the carshell design in order to reduce the carshell weight. While this is prudent, it also introduces delay in the fabrication and testing of the carshell, and may necessitate additional structural review by the MTA.

Status/Action

Both the carshell and truck FEA's are now Conditionally Approved. We will continue to work with SDC and Duewag to resolve the remaining difficulties; however, the design is in a somewhat fluid state at the moment due to SDC's weight reduction program.

<i>Item</i>				
EMI (Electromagnetic Interference) Limits				
Concern/Impact				
Some time ago, SDC had petitioned the MTA to modify the specified Conducted EMI limits in order to reduce the weight of the AEG Line Reactor. LTK reviewed the request, and, following an exchange of correspondence, new limits were mutually agreed to between the MTA Vehicle Design Group, the H1100 (Green Line) contractor, and SDC. All that remained was confirmation from the Pasadena Signal Designer (the "Engineering Management Consultant") that the new limits were acceptable as applied to the Pasadena Line.				
On 27JUN95, we received such concurrence from the EMC, with certain provisos. These stipulations include the following:				
 Satisfactory completion of tests on the Green Line demonstrating the new limits will not cause interference with the signal system That there may be some risk that future developments in signal work may necessitate change to the vehicle at some later date That there is some risk in that the analytical processes used in verifying that the new limits will not interfere with the signal system may not be precise 				
Status/Action				
In August we received a response from SDC taking exception to the EMC's requirement that "the maximum currents for a three-car train consist not exceed twice the single car values when the consist is at least 100 meters from the substation". LTK is continuing negotiations with SDC to resolve this issue.				

Iten	7
V ehi	cle Weight
Con	ncern/lmpact
	pht continues to be a major and significant issue. At a Program Review Meeting on 02AUG95, offered the following:
	As presently calculated, the car is overweight at approximately 143,000 lbs. This value must be considered very approximate, however, since it includes a number of changes in the car structure and interior which have not yet been submitted for approval. It must also be noted that the car has not yet passed the carshell strength tests, following which it may be necessary to add structural elements to meet specified requirements.
	SDC has developed a number of creative solutions to the weight problem which they have not yet formally proposed, nor are they included in the above weight estimate. These changes, if found acceptable, have potential for significant weight reduction.
	equent to this meeting, SDC forwarded Revision 6 to their Vehicle Weight Control Report, n offers the following:
	The projected weight for the Standard Car is now 142,437 lbs., marginally within the specification requirement of 142,508 lbs. The Prototype Car, however, is projected to be marginally over this requirement at 142,600 lbs.
	Recent efforts by SDC and Duewag have resulted in a carshell weight savings of about 1400 lbs. Other reductions and corrections to the previously tabulated weight have contributed in bringing the projected total down to the present projections.
	SDC proposed another option that would lower weight, and that would be to reduce the number of passenger seats in the car, down to the minimum allowed 66 seats. By retaining the same standing room, and deleting a few seats, weight total vehicle weight would lower due to both the loss of seat weight and the reduction in the number of seated passengers. The extra room realized by eliminating several seats would be used to provide more leg and foot room.
Stat	us/Action
Both	LTK and the MTA will continue to work with SDC in an effort to make sensible and realistic

reductions in vehicle weight.

Item

Cancellation of 22 Standard Cars

Concern/Impact

On 23AUG95, the MTA Board voted to reduce the Standard Car procurement from 74 cars to 52 cars. SDC has forecast this will force premature closure of the Carson Plant, and a commensurate reduction in the amount of DBE content provided.

Status/Action

LTK is awaiting formal direction from the MTA to commence negotiations regarding the election of Option 5, *Partial Termination for Convenience*.

Item

HVAC Design

Concern/Impact

Early in the month, we met with SDC at the Program level to discuss progress of the HVAC design effort. SDC has concurred with the MTA assessment that their designated subcontractor, Sutrak, has not performed. Late in July, SDC had given Sutrak an explicitly defined set of design milestones to meet. These milestones were as follows:

	Electrical Drawings:	24JUL95
	Mechanical Drawings:	31JUL95
	Installation Drawings:	31JUL95
\Box .	Anti-Skid Roof Layout:	04AUG95
	Complete PDR Package:	11AUG95
П	Conduct PDR	11SEP95

Status/Action

As of the date of this writing, we have received no substantive submittals from Sutrak. In a meeting with SDC at the end of August, they offered that the tentative 11/12SEP95 Preliminary Design Review with Sutrak would have to be pushed back, probably to sometime in October. Coupled with reports of Sutrak's non-performance on the Portland Contract, it is becoming apparent that Sutrak may not be capable of performing to the P2000 Contract Requirements. SDC was encouraged to locate another HVAC supplier as a back up. SDC was receptive to this encouragement.

Item

Decision on Driverless Technology

Concern/Impact

In August, the question of whether or not to elect Driverless Technology (P2000 Contract; Option No. 3) for the Green Line has again been put before the MTA's Cost Containment Committee for action. A decision was due on or before 25AUG95. The Committee, however, expressed the need for an additional 30 days in which to make their decision. The MTA petitioned SDC for such an extension, and SDC offered a two month extension to the MTA's decision on Driverless Technology in return for two months of schedule relief. The MTA is considering Siemens' offer, but must analyze the financial implications of same before a decision can be made. If this is confirmed, then a Change Order to the P2000 Contract must be generated.

Status/Action

LTK is awaiting formal direction from the MTA to commence negotiations regarding the implementation of the requested change.

RESOLVED FROM LAST MONTH

Item

SDC Quality Assurance Program

Concern/Impact

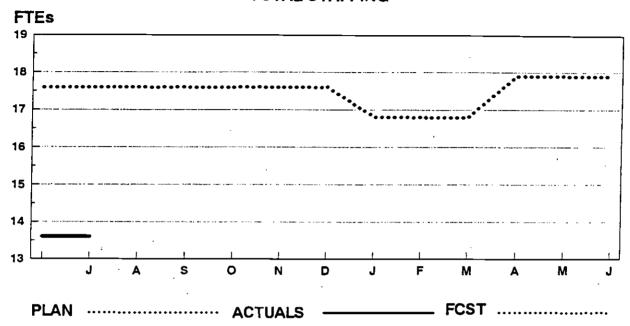
SDC acknowledged in writing that they will provide Source Inspection at the facilities of major suppliers; specifically, the propulsion and braking suppliers, at whose facilities they had not intended to provide such inspection. In their letter, however, they noted that they disagree with the MTA's interpretation of the specification requirement necessitating Source Inspection, and they notified the MTA that they may file a claim in this regard. With regard to the issue of providing Quality Assurance Engineering attendance at Design Review meetings, we noted for the first time that SDC had a QA Engineer in attendance (part time) during our engineering meetings in Sacramento.

Status/Action

All outstanding Quality Assurance issues are now resolved. Quality Assurance will be dropped as an Area of Concern unless new problems arise.

LIGHT RAIL VEHICLE PROCUREMENT

TOTAL STAFFING



STAFFING ANALYSIS

Metro Construction actuals are lower than planned due to lower than anticipated Program Management and Project Engineering support.

Note: Total Staffing Chart includes CM and MTA Staffing only.