COST AND SCHEDULE STATUS REPORT JANUARY 1984

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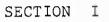
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PRELIMINARY ENGINEERING

PRELIMINARY ENGINEERING STATUS

JANUARY 1984

This section details the \$32.949 million budgeted for Preliminary Engineering. Expenditures to date total \$32.693 million.

All Preliminary Engineering deliverables are complete but work is still progressing on the L. A. County contract which is 96% complete. This contract, once complete, will finalize the P. E. Phase. Administration is taking steps to close all contracts with official termination letters to accounting and contractors. Once this is done, any money remaining in P. E. line items will be transferred to the same C.P.E. line items.

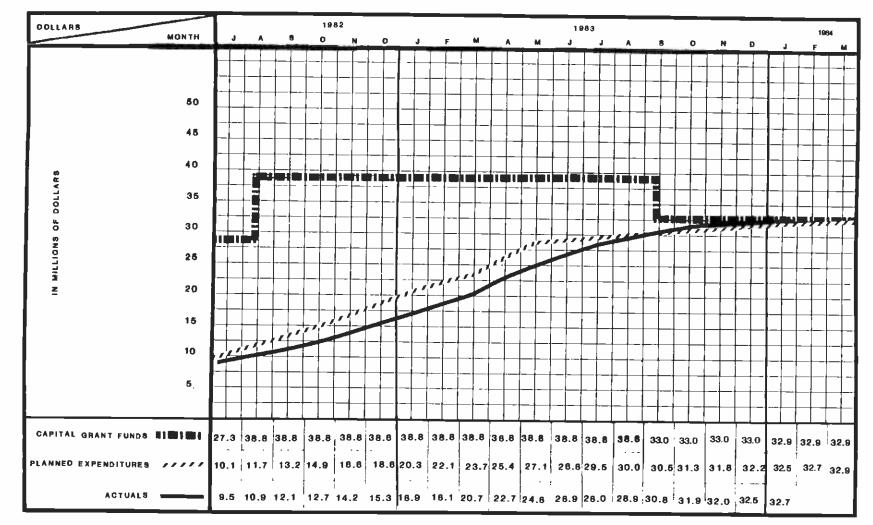
The accompanying graph illustrates the planned P. E. expenditures against the actual expenditures. As of 1/31/84 there is \$256,000 remaining to go in the Professional Services line item.

RTD:

RTD METRO RAIL PROJECT

PRELIMINARY ENGINEERING STATUS

JANUARY 1984



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Date Prepared: 2/20/84 Status as of : 1/31/84 WBS # : 11DAA3113

SCRID METRO RAIL PROJECT PRELIMINARY ENGINEERING BUDGET SUMMARY BY MACS CODE (\$000'S)

			UNOBLIGATED	_		IGATIONS TO 1	DATE	1			
		RESERVED	COMMITTED	TOTAL	UNEXPENDED	EXPENDED	TOTAL	CURRENT	EST. AT	APPROVED	VARIANCE/
AFE* 021	(MACS ** CODE) DESCRIPTION	(1)	 (2)	<u>(</u> 3=1+2)	(4)	(5)	<u>(6=4+5)</u>	WKG.BUDGET <u> (7≕3+6)</u>	COMPLETION	BUDGET	% (10=9−8)
Α.	(20.02.01) Purchase of Support Autos	 \$ -0	 \$ -0-	\$ - 0 -	 \$ -0-	\$ 22	\$ 22	 \$22	 \$22	 \$22	 \$ 0/0%
	(20.02.02) Purchase/Installation of Support Equipment	 -0-	- 0 -	 – 0 –	-0-	1,100	1,100	1,100	1 1 1 1,100	 1,100	 0/01
	(20.08.01) Professional Services Contracts	 -0-	- 0 -	- 0 -	256	23,933	 24,189	 24,189	 24,189	 24,189	 0/0"
	(20.15.02) Force Account Work	- 0 -	- 0 –	- 0 -	- 0 -	6,499	6,499	6,499	 6,499	6,499	 0/0
	(20.15.90) Other Supporting Services	-0-	- 0 -	- 0 -	- 0 -	1,019	1,019	1,019	 1,019	1,019	0/0
	(32.00.00) Contingencies	- 0 -	- 0 -	- 0 -	- 0 -	- 0 -	- 0 -	- 0 -	- 0 -	- 0 -	 0/0
	(20.16.00) General & Administrative	- 0 -	-0-	- 0 -	- 0 -	120	120	 120	 120	 120	, 0/0;
(GRAND TOTAL	\$ -0 -	\$ -0-	\$ - 0 -	\$ 256	\$ 32,693	\$ 32,949	\$ 32,949	\$ 32,949	 \$32,949	\$ 0/08

* AFE - Authorization for Expenditure ** MACS - Management and Control System

PRELIMINARY ENGINEERING BUDGET & COST REPORT

PROFESSIONAL SERVICES CONTRACTS

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January 1984

Audit #	Contract	\$ Budget	\$ <u>Actual</u>	C=Completed or % Phys. Compl.	On Schedule
I. WAYS	& STRUCTURES				
2440-1 2365-1 2428-1 2284-1 2256-2 2427 2493-1 2719-1 2720-1 2718-1 2593 2654 2757 2760 2274 2195	DMJM/PBQ&D Teledyne Wilson Ihrig Lindvall Richter Converse Consults. Converse Consults. PSG Waters Real Estate Analysts Lea Associates Natelson Co. Velma Marshall Glenn Johnson P.E. Sperry T.G. McCusker Carl Englund American Aerial	38,497 40,000 25,000 15,500 7,606 7,253 20,000 3,504	5,334,863 283,872 169,139 271,000 1,151,855 104,000 188,387 37,238 38,497 40,000 24,961 15,217 7,606 7,253 14,153 3,504	с с с с с с с с с с с с с с с с с с с	Yes Yes Yes Yes Yes Yes Yes Yes Yes Yes
2640 2955	Larry Gallagher Kellogg Corp.	1,500 24,900	971 24,900	C C	*
TOTAL WAY	S & STRUCTURES	\$7,735,114	\$7,717,416	N/A	N/A
II. SYST	EMS DESIGN & ANALYSIS	3			
2439 2214 2217 2595 2434-4 2218 2360 2349	Kaiser Engineers JPL Walter Woods Robert Johnston B,A&H Montreal Comm. of Transportation Log/An David Ashley	3,502,464 10,000 5,000 3,265,503 5,000 1,932 9,800	3,502,464 9,500 1,020 319 3,265,503 5,000 1,932 9,800	с с с с с с с	Yes Yes * Yes Yes Yes Yes
TOTAL SYS ANALYSIS	TEMS DESIGN &	\$6,800,199	\$6,795,538	N/A	N/A

A.B.DICK P&C-1.3 2.29.84

PRELIMINARY ENGINEERING BUDGET & COST REPORT (cont'd)

<u>Audit #</u>	<u>Contract</u>	\$ <u>Budget</u>	\$ <u>Actual</u>	C=Completed or % Phys. Compl.	On Schedule
III. STA	TIONS				
2510-2 2419-4 2418-2 2705-4 2842 2803 2797 2611-3 2160-5 2225 2395 2764-1 2610 2266 2421	Harry Weese Sedway/Cooke City of L.A. Schimpeler-Corr. Schimpeler-Corr. Robert Harmon County of L.A. Barton-Aschman Barton-Aschman Computer Usage Co. W.F. Hoey W.F. Hoey W.F. Hoey PBQ&D	$\begin{array}{c} 4,019,205\\ 1,713,865\\ 1,755,815\\ 657,158\\ 10,000\\ 18,000\\ 24,900\\ 229,300\\ 229,300\\ 25,000\\ 8,501\\ 8,312\\ 4,995\\ 5,000\\ 5,000\\ 5,000\\ 5,000\end{array}$	\$4,019,205 1,663,497 1,755,815 635,858 10,000 18,000 24,900 199,733 25,000 8,501 8,312 4,995 990 5,000 1,409	с с с с с с с с с с с с с с с с с с с	Yes Yes Yes Yes Yes Yes Yes * * *
29 00	Schimpeler-Corr.	151,000	142,631	С	Yes
TOTAL S	TATIONS	\$8,641,051	\$8,523,846	N/A	N/A
IV. PRO	GRAM CONTROL				
2908 2279 2163 2363 2534 TOTAL PI	Data General TAD-Log/An TAD-Log/An Log/An TAMS ROGRAM CONTROL	10,967 451,199 15,000 28,009 24,987 \$ 530,162	10,967 451,199 15,000 28,009 24,987 \$ 530,162	C C C C N/A	Yes Yes Yes * N/A
VI. COM	MUNITY RELATIONS				
2620 2619 2400	CKT Associates Institute of Cultural Affairs John Hennessy	18,070 23,260 107,712	18,070 23,260 107,712	C C C	* * *
TOTAL CO	OMMUNITY RELATIONS	\$ 149,042	\$ 149,042	N/A	N/A

A.B.Dick P&C-1.3 2.29.84

PRELIMINARY ENGINEERING BUDGET & COST REPORT (cont'd)

<u>Audit #</u>	<u>Contract</u> CELLANEOUS CONTRACTS	\$ Budget	\$ <u>Actual</u>	C=Completed or % Phys. Compl.	On Schedule
VII. IIID	SELEXALOUS CONTRACTS				
3002	Burton Jones	4,000	3,750	С	*
2726	Townsend Assoc.	24,000	23,365	С	*
2907	Jacobs Assoc.	24,900	24,900	С	*
2823	Manuel Padron	7,358	7,358	С	*
2669	Eugene Stann	6,508	6,508	С	*
2671	Fred Burke	7,500	2,692	С	*
2670	George Krambles	9,670	9,670	С	*
2677	Robert Johnston	8,044	8,044	С	*
2668	William Alexander	3,858	3,858	С	*
2430	Bureau de Transit			С	*
	Metro	5,000	2,187	С	*
2499	Barton-Aschman	4,121	4,121	С	*
2179	Tanzmann Associates	9,881	9,881	С	*
2286	Tanzmann Associates	843	843	С	*
2776	U.S.C.	4,320	1,539	С	*
2930	Lincoln Institute	24,500	12,689	С	*
2902	NTS	8,467	8,467	С	Yes
2910 - 2	NBMBW&M	80,000	40,340	*	*
2943	O'Melveney & Meyers	100,000	46,345	*	*
TOTAL M	ISC. CONTRACTS \$	332,970	\$ 216,557	N/A	N/A
GRAND T	DTAL P.E. \$24	,188,538	\$23,932,561	N/A	N/A

*

Note: Asterisked items indicate Peer Review Boards, General Managers Transit Technical Advisory Committee, and "As Needed" Consultants for whom schedule status is not relevant

A.B.Dick P&C-1.3 2.29.84

SECTION II

CONTINUED PRELIMINARY ENGINEERING

CONTINUED PRELIMINARY ENGINEERING STATUS JANUARY 1984

This section details the \$90.607 million budgeted for Continued Preliminary Engineering. Expenditures to date total \$16.702 million.

Each section designer within this phase has been the subject of an independent analysis (by TSD Program Control) of their cost and schedule status. (See Section D - Subcontractor Evaluations.) Also, an overall contract assessment for scheduling and cost has been prepared this month and is included preceding the subcontractor evaluations.

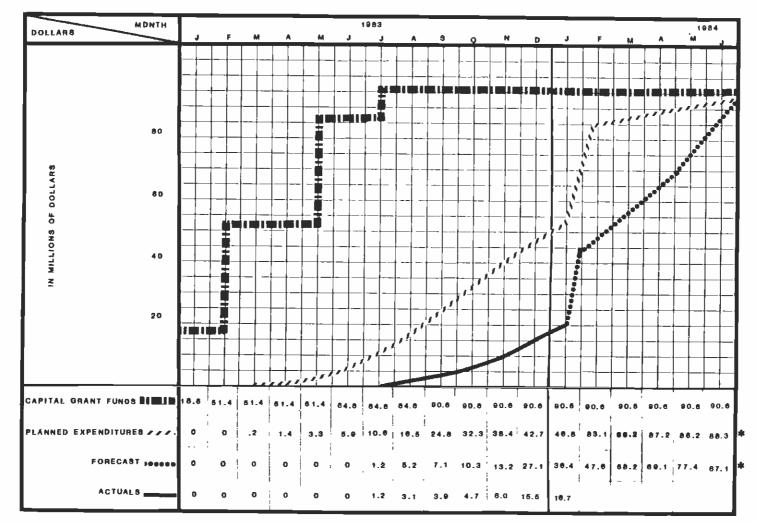
A budget amendment request will be sent to UMTA to transfer funds from P.E. and within the C.P.E. line items themselves.

RTD :

RTD METRO RAIL PROJECT

CONTINUED PRELIMINARY ENGINEERING STATUS

JANUARY 1984



EXCLUDING CONTINGENCIES

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Date Prepared: 2/20/84 Status as of : 1/31/84 WBS # : 11DAA3113

SCRID METRO RAIL PROJECT CONTINUING PRELIMINARY ENGINEERING BUDGET SUMMARY BY MACS CODE (\$000'S)

			UNOBLIGATED		OBL	IGATIONS TO I	DATE	1			
<u> </u>		RESERVED	COMMITTED	TOPAL	UNEXPENDED	EXPENDED	TOTAL	CURRENT	EST. AT	APPROVED	VARIANCE/
AFE*			!		1	I	1	WKG. BUDGET	COMPLETION	BUDGET	1 8
	DESCRIPTION	<u> (1)</u>	(2)	(3=1+2)	(4)	(5)	(6≈4+5)	(7=3+6)	(8)	(9)	(10=9-8)
021 A. 	(20.02.01) Purchase of Support Autos	 \$18	 \$ -0 -	\$ 18	 \$ -0-	 \$ - 0 -	\$ - 0 -	 \$ 18	 \$18	 \$18	 \$ 0/0%
B. 	(20.02.02) Purchase/Installation of Support Equipment	 75) 50	125	 20	 69	89	214	214	214	 0/0%
TBO 1 1 1 1	(20.02.07) Purchase/Installation of MIS Equipment	 77	- 0 -	77	 823	- 0 -	823	 900	 900	900	0/0%
ITBD 	(20.02.08) Purchase/Installation of Communications Equipment	100	- 0 -	100	 -0-	- 0 -	- 0 -	1 100	100	100	 0/0%
ic.	(20.08.01) Professional Services Contracts	2,146	4,217	6,363	 29,921	13,657	43,578	 49,941	 49,941	 49,941	 0/0%
 D. 	(20.15.02) Force Account Work	2, 375	- 0 -	2,375	 1 - 0 -	1,685	1,686	4,061	 1 4,061	4,061	 0/0%

02/22/84 P&C (WP) -7.7

> Date Prepared: 2/20/84 STATUS AS OF : 1/31/84 WBS # : 11DAA3113

> > •

			UNOBLIGATED		OBL:	IGATIONS TO D	DATE	1			
1		RESERVED	COMMITTED	TOTAL	UNEXPENDED	EXPENDED	e TOTAL	CURRENT	EST. AT	APPROVED	VARIANCE/
AFE*	(MACS ** CODE)				ŀ			WKG. BUDGET	COMPLETION	BUDGET	8
I	DESCRIPTION	(1)	(2)	(3=1+2)	(4)	(5)	(6=4+5)	(7=3+6)	(8)	(9)	(10=9-8)
Ε.	(20.15.90)										
	Other Supporting Services	152	48	200	40	1,123	1,163	1,363	1,363	1,363	(0)/0%
F.	(32.00.00)				r 			1			
! !	Contingencies	1,209	-0-1	1,209	- 0 -	- 0 -	- 0 -	1,209	-0-	1,209	1,209/0%
G.	(20.16.00)		 		I [
1 1	General & Administrative	15	13	28	92	51	143	171	171	171	(0)/0%
045	ROW Acquisition for Central		 		1	-		I			
<u> </u>	Yard & Shops	32,478	- 0 - 1	32,478	1 36	116	152	32,630	32,630	32,630	- 0 -/0%
1	GRAND TOTAL	\$ 38,645	\$ 4,328	\$ 42,973	 \$30,932	\$ 16,702	\$ 47,634	 \$90,607 	\$89,398	\$90,607	\$ 1,209/1%

SCRID METRO RAIL PROJECT CONTINUING PRELIMINARY ENGINEERING BUDGET SUMMARY BY MACS CODE (\$000'S)

METRO RAH, PROJECT SECTION DESIGN SUBCONTRACT EVALUATION SUMMARY

INCREMENTAL PRODUCTIVITY PROJUCTED EFFICIENCY NEEDED 11011 % COMPLETE PROGRESS BASED ON **ISTIMATE** TO COMPLETE 110 DESCRIPTION PLANNED ACTUAL THIS PLRIOD MURS -\$\$ GURRENT BUDGET A! COMPLETION | CONTRACT ON BUDGET A1001 YARD AND SHOPS N/A 43 8 % 96% 92% \$ 4,080,878 \$ 4,432,558 106.95% _ _ _ _ UNION STATION 5 % A1351 N/A 45 126% 145% 2,897,000 2,000,000 19.19% _____ A140 | CIVIC CENTER/5TH & HILL N/A 17 5.5% 79% 90% 6,203,707 6,929,412 102.45% _____ ---. 25 A1651 711 & FLOVER N/A 3 % 111% 101% 2,387,000 99.62% 2,360,000 ------------A1701 WILSHIRE/ALVARADO N/A -32 12 % 106% -104% 2,987,500 3,119,430 98.05% --------A1951 VILSHIRE/VERMONT N/A 12 % 111% 45 99% 1,541,126 1,551,111 100.54% . _ _ _ _ _ _ -----A220 WILSHIRE/NORMANDIE & N/A 7 3 % 95% 93% WH SHERE / VESTERN 4,676,695 5,028,571 100.57% - - -_ _ _ _ _ _ _ _ _ _ _ A240 WELSHERF/GRENSHAW N/A -0 0 _ 2,394,790* 2,394,790 ---- - -_ _ _ _ _ ------A245 WILSHIRE/LA BREA N/A 15 5.5% 138% 134% 1,200,000 1,698,579 95.71% ---------------------------_ _ _ ----- - - -A2501 WH, SHIRE/LAIREAX N/A 3,956,421* 3.956.421 ---------------------A2751 TATREAX/BEVERLY N/A 2.5 2.5% 2,250,000 2,250,000 ---------------A310 FAIRLAX/SANIA MONICA & 2.5% 4,409,415 LA BREA/SUNSET N/A 4 4,409,415 -----A3501 HOLLYWOOD/CAHUENGA N/A 5 5 % 2,071,181 2.071.181 ---LINE FROM HOLLYWOOD/CAHUENGA A410 UNIVERSAL CITY 2 2 N/A 2,627,160 2,627,160 --------A415 HOLLYWOOD BOWL N/A 2,013,910 2,013,910 --------A425 UNIVERSAL CITY N/A 2,403,180 2,403,180 A430 LINE FROM UNIVERSAL CITY TO NORTH HOLLYWOOD N/A 3 3 % 1,968,766 1,968,766 A445 NOR FIL HOLLYWOOD N/A 1.5 1.5% 2,141,868 2,141,000 \$52,751,106 1 \$52,724,975

TOTAL

1

STATUS AS OF: 01/31/84

OVERALL CONTRACT ASSESSMENT - COST

The cost analysis of the January '84 MRTC Progress Report continues to be hampered by the lack of both a planned progress curve and a forecast of labor and cost.

When trying to relate the cost and labor plans in the January '84 MRTC Progress Report to the biweekly Design Status Report, inconsistencies begin to surface. For example:

Contract	Description	Progress <u>Planned</u> *	Actual	Average Productivity	Months into Contract	Contract Duration
A135	Union Station	50%	45%	126%	7	13
A165	7th & Flower	45%	25%	111%	6	12
A170	Wilshire/Alvarado	38%	32%	106%	5	16
A195	Wilshire/Vermont	45%	45%	111%	6	13
A245	Wilshire/LaBrea	21%	15%	138%	4	13

All of the above contracts are <u>averaging</u> well over 100% in productivity, yet most are behind schedule. Assuming that the Progress reported, the planned Progress, as well as the cost and labor plans are correct, this condition cannot exist! Therefore, either the progress information, and/or the cost and labor plans are not accurately represented. The MRTC has indicated that forecasts and progress plans will accompany the February report. This will enhance our analysis of the section design contracts.

*Taken from the biweekly Design Status Report.

RTD

OVERALL CONTRACT ASSESSMENT - SCHEDULING

As of the status date (1/31/84) three design contracts still have not received Notice to Proceed. During the report period contract A240 was issued a Notice to Proceed.

Of the contracts in progress nearly all are behind schedule ranging from 1 week to 2 months.

Nearly all contracts are failing to submit monthly updates as required. Update submittal is essential in order to properly access contract performance.

ATD -

16 MONTHS

0.96

RID METRO RAIL PROJECT C.P.E. PHASE SUBCONTRACTOR EVALUATION JANUARY 1984

COST ANALYSIS

DESIGN CONTRACTOR DMJM/PBQD

CONTRACT # - A100 YARD AND SHOPS (INCLUDES 110, 112, 114, 130, 610)

COMMENTS ON MRTC PROGRESS REPORT

MRTC NEEDS TO SUBMIT DRAWING LISTS AND CPM FOR REVISED MOW SHOP BUILDING. 0

RID NEEDS TO REVIEW BUDGET AND DRAWING LISIS FOR CONTRACTS All2 & Al30. THE SCOPE OF All2 HAS Ô. BEEN REDEFINED DUE TO THE DELETION OF CONTRACT All3.

PERFORMANCE ASSESSMENT

DATA REPORTED BY THE MRTC/DESIGN CONSULTANT % COMPLETE PLANNED -N/A 43% % COMPLETE ACTUAL -CONTRACT DURATION: TOTAL COST BUDGET - \$ 4081000 MONTHS INTO CONTRACT: 7 MONTHS ACTUAL COST SPENT TO DATE - \$ 1906000 4081000 FORECASTED COST - \$ INCREMENTAL PROGRESS: 8% TOTAL MANHOUR BUDGET -87900 (THIS PERIOD) 39400 ACTUAL HOURS SPENT TO DATE -87900 FORECASTED HOURS -

PRODUCTIVITY = % COMPLETE X TOTAL MH BUDGET (CUMULATIVE)

87900 Х •43

MHRS. SPENT

39400

A SATISFACTORY PRODUCTIVITY LEVEL.

\$ 1754830 EARNED COSTS = % COMPLETE X TOTAL COST BUDGET = .43 X 4081000 = (CUMULATIVE)

THIS CONTRACTOR, BEING AT 43% COMPLETE, HAS THEORETICALLY EARNED \$1754830.

COST PERFORMANCE INDEX = EARNED COSTS 1754830 0.92 = (CUMULATIVE - CPI) ACTUAL COSTS SPENT 1906000

THE COST PERFORMANCE INDICATES THAT, THEORETICALLY, WE ARE GETTING \$0.92 WORTH OF WORK FOR EVERY DOLLAR WE SPEND. A SATISFACTORY C.P.I.

COST VARIANCE = ACTUAL \$ SPENT - EARNED \$ = 1906000 - 1754830 = \$151170 (CUMULATIVE)

TO DATE, THIS CONTRACT HAS THEORETICALLY OVERRUN BY \$151170.

COST ANALYSIS (CONTINUED)

CONTRACT # - Aloo YARD AND SHOPS (100, 112, 114, 130, 610) DESIGN CONTRACTOR - DMJM/PBQD

PERFORMANCE ASSESSMENT (CONTINUED)

 $\begin{array}{rcl} \$ & \text{SPENT} = & \text{ACTUAL COSTS SPENT} & 1906000 \\ (CUMULATIVE) & & & = & ---- & = & 46.70 \\ & & & & & & & & \\ & & & & & & & & \\ & & & & & & & & \\ & & & & & & & & \\ & & & & & & & & \\ & & & & & & & & \\ & & & & & & & & \\ & & & & & & & & \\ & & & & & & & & \\ & & & & & & & & \\ & & & & & & & & \\ & & & & & & & & \\ & & & & & & & & \\ & & & & & & & & \\ & & & & & & & \\ & & & & & & & \\ & & & & & & & \\ & & & & & & & \\ & & & & & & & \\ & & & & & & & \\ & & & & & & & \\ & & & & & & & \\ & & & & & & & \\ & & & & & & & \\ & & & & & & & \\ & & & & & & & \\ & & & & & & & \\ & & & & & & & \\ & & & & & & & \\ & & & & & & & \\ & & & & & & & \\ & & & & & & & \\ & & & & & & & \\ & & & & & & & \\ & & & & & & & \\ & & & & & & & \\ & & & & & & & \\ & & & & & & & \\ & & & & & & & \\ & &$

THE CONTRACTOR HAS SPENT 46.70% OF THE TOTAL BUDGET VS. HIS PHYSICAL PROGRESS OF 43%.

EST. AT COMPLETION = BUDGET AT COMPLETION = $\frac{4081000}{-----}$ = \$4432558 COST PERFORMANCE INDEX 0.92

AT THE CURRENT RATE OF COST PERFORMANCE (CPI), WE PROJECT THAT THIS CONTRACT WILL BE COMPLETED AT A COST OF \$4432558. THIS REPRESENTS A COST OVERRUN OF \$351558 OR A 8.61% INCREASE.

TO COMPLETE	= BUDGET AT COMPLETION - EARNED COSTS	4081000 - 1754830
PERFORMANCE INDEX	EST. AT COMPLETION - ACTUAL \$ SPENT (REPORTED)	4081000 - 1906000

= 106,95%

TO COMPLETE PERFORMANCE INDEX INDICATES THAT THE CONTRACTOR MUST WORK AT 106.95% EFFICIENCY FOR THE BALANCE OF THE CONTRACT, IN ORDER TO COME IN ON BUDGET. CONTRACTOR WILL NEED TO INCREASE PRODUCTIVITY BY 10.95% FOR THE DURATION OF THE CONTRACT TO COME IN ON BUDGET.

CONCLUSION

THIS CONTRACT APPEARS TO BE PROGRESSING STEADILY, BUT THE CONTRACTOR NEEDS TO INCREASE HIS PRODUCTIVITY IN ORDER TO FINISH ON BUDGET. A BETTER ANALYSIS OF PROGRESS CAN BE MADE AFTER THE SCOPE OF WORK FOR THE CONSTRUCTION CONTRACT UNITS HAVE BEEN REDEFINED.

SCHEDULE ANALYSIS STATUS AS OF: January 31, 1984

DESIGN CONTRACT:110 Yard Clearing, GradingAWARD:07/07/83DESIGN SUBCONTRACTOR:DMJM/PBQDNTP:07/13/83PROJECT MANAGER(TSD/MRTC):Levy/McCauleyDURATION:459(CALENDAR DAYS)

MAJOR MILESTONES	SCHEDULED	FORECAST	ACTUAL	VARIANCE (CD)
BID DOCUMENTS	11/16/83) 01/04/84) 02/29/84 02/29/84	+02/29/84 *02/29/84	10/28/83 11/16/83 01/18/84 - -	
TIME OF PERFORMANCE	01/25/85	01/25/85	-	· - ·

RESOLUTIONS OF LAST PERIODS PROBLEMS:

An updated subcontractor's schedule still has not been received by Program Control. The schedule with status as of the end of November was requested early December. The subcontractor has not provided forecasted dates for the final submittal.

AREAS OF CONCERN:

Subcontractor must submit an updated schedule showing status as of the end of February. The information is necessary as project engineers and Program Control need to make an objective estimate of percent complete. The Contractor's staff in the last two months has been switched from All2 and Al30 to this contract to insure the design schedule would be met. However, the contract schedule is apparently slipping.

COMMENTS:

As reported last period, a critical review must be accomplished with the subcontractor's updated schedule to insure that the schedule is not delayed any further. It is recommended that a team made up of MRTC and TSD Project Engineers and Program Control personnel responsible for this contract should meet to discuss this contract. Areas other than design should also be discussed.

PERFORMANCE ASSESSMENT:

Subcontractor is currently behind schedule. Subcontractor missed the scheduled pre-final submittals of 01/04/84, but did deliver submittal on 1/18/84. The scheduled final submittal of 02/29/84 will not be met. *Forecast dates are not yet available.

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03/06/84 PC-14.20<1>

SCHEDULE ANALYSIS STATUS AS OF: January 31, 1984

DESIGN CONTRACT: 112 Yard Building, Utilities	AWARD:	07/07/83
and Landscaping		
DESIGN SUBCONTRACTOR: DMJM/PBQD	NTP:	07/13/83
PROJECT MANAGER (TSD/MRTC): Levy/McCauley	DURATION:	459
	(CALENDAR	DAYS)

MAJOR MILESTONES	SCHEDULED	FORECAST	ACTUAL	VARIANCE
CONTROL SYSTEM SUBMITTAL			10/28/83	
IN PROG. SUBMITTAL (60%)	02/01/84	i – .	01/27/84	-
PRE FINAL SUBMITTAL (85%) 03/08/84	05/23/84	1 –	-77
FINAL SUBMITTAL (100%) 05/23/84	07/18/84	1 –	-60
BID DOCUMENTS	05/23/84	07/18/84	-	-60
TIME OF PERFORMANCE	01/25/85	01/25/85	I –	! – i

RESOLUTIONS OF LAST PERIODS PROBLEMS:

No problems were reported last period.

AREAS OF CONCERN:

The shifting of contractor's staff during the previous two months to the early contracts (AllO and All3 - deleted) has impeded progress of this Contract, but the in-progress submittal was received (01/27/84) ahead of schedule. However, with the addition of the transportation function on the second floor, a redesign will cause a forecasted delay of 77 calendar days to the prefinal submittal.

COMMENTS:

Any additional design changes may continue to push out the final submittal date that has now been rescheduled to 07/18/84. Impact to the construction NTP is that the forecast date of 10/17/84 has slipped to 01/02/85. The subcontractor should identify specific review periods by the District as well as Caltrans after the major submittals on an updated schedule.

PERFORMANCE ASSESSMENT:

Subcontractor is currently behind schedule. Performance affected by the District's request to redesign the Yard Building.

03/06/84 PC-14.20<2>

SCHEDULE ANALYSIS STATUS AS OF: January 31, 1984

NA TOP MIT ECHONEC				
			(CALENDAR	DAYS)
PROJECT MANAGER (TSD/MRTC): Levy/McCauley		DURATION:	459	
DESIGN SUBCONTRACTOR: 1			NTP:	07/13/83
DESIGN CONTRACT: 113-T		Building*	AWARD:	07/07/83

MAJOR MILESTONES	SCHEDULED	FORECAST	ACTUAL	VARIANCE
CONTROL SYSTEM SUBMITTAL	07/13/83	 _	10/28/83	I _
IN PROG. SUBMITTAL (60%)	11/16/83	-	11/16/83	i – i
PRE FINAL SUBMITTAL (85%		–	-	-
FINAL SUBMITTAL (100%) 02/29/84	-	-	1 – I
BID DOCUMENTS	02/29/84	1 –	1 -	1 – 1
TIME OF PERFORMANCE	01/25/85	01/25/85	1 –	i – i

RESOLUTIONS OF LAST PERIODS PROBLEMS:

Interim use of transportation building is no longer an issue as this contract will be deleted in February.

AREAS OF CONCERN:

Maintenance of Way Building is being proposed as an early contract to replace this contract.

COMMENTS:

New contract (114-Maintenance of Way) will also be an early contract but will not contain the same contractual dates.

PERFORMANCE ASSESSMENT:

*Contract will be deleted in February and a tentative contract (All4) will be established.

SCHEDULE ANALYSIS STATUS AS OF: January 31, 1984

DESIGN CONTRACT:130 Line Subway to Union StationAWARD:07/07/83DESIGN SUBCONTRACTOR:DMJM/PBQDNTP:07/13/83PROJECT MANAGER(TSD/MRTC):Levy/McCauleyDURATION:459(CALENDAR DAYS)

MAJOR MILESTONES	SCHEDULED	FORECAST	ACTUAL	VARIANCE
CONTROL SYSTEM SUBMITTAL			10/28/83	
IN PROG. SUBMITTAL (60%)			-	_77
PRE FINAL SUBMITTAL (85%) 05/02/84	07/11/84	-	-70
FINAL SUBMITTAL (100%) 06/27/84	09/05/84	- 1	-70
BID DOCUMENTS	06/27/84	09/05/84	! –	-70
TIME OF PERFORMANCE	01/25/85	01/25/85	–	1 – 1

RESOLUTIONS OF LAST PERIODS PROBLEMS:

Not resolved - conceptual design drawings were not approved at a meeting with Caltrans in late December. Subcontractor is delayed in starting detail plans until at least a partial approval is given.

AREAS OF CONCERN:

Last month it was reported that conceptual design drawings had to be approved in January so as not to affect the in-progress submittal (60%) forecast for 03/07/84. Due to the drawings not being approved there has been a schedule impact. The forecasted date for submittal is now 05/16/84. The impact to the construction NTP is that the schedule date of 10/17/84 (start of construction) may be slipped to 01/02/85.

COMMENTS:

Due to subcontractor being delayed by an outside agency, every attempt must be made to insure that this submittal (60%) does not impact the schedule any further. The District should contact Caltrans ahead of time when a scheduled submittal will be sent for review and approval.

PERFORMANCE ASSESSMENT:

Subcontractor is currently behind schedule. Reasons other than delay in conceptual design drawings approval by Caltrans have not been given.

03/06/84 PC-14.20<4>

RTD METRO RAIL PROJECT C.P.E. PHASE SUBCONTRACTOR EVALUATION JANUARY, 1984

COST ANALYSIS

CONTRACT # -	A135	UNION	STATION
DESIGN CONTRACTOR	HARRY	WEESE	& ASSOCIATES

COMMENTS ON MRTC PROGRESS REPORT

O TSD PROJECT MANAGER FEELS THAT A MORE REALISTIC PERCENT COMPLETE FIGURE FOR JANUARY WOULD BE 40% INSTEAD OF MRTC'S 45%.

PERFORMANCE ASSESSMENT

DATA REPORTED BY THE MRTC/DESIG	GN CONSULTANT
% COMPLETE PLANNED -	N/A
8 COMPLETE ACTUAL -	45%
TOTAL COST BUDGET - \$	2897000
ACTUAL COST SPENT TO DATE - \$	900000
FORECASTED COST - \$	2897000
TOTAL MANHOUR BUDGET -	55900
ACTUAL HOURS SPENT TO DATE -	20000
FORECASTED HOURS -	55900

CONTRACT DURATION: 13 MONTHS MONTHS INTO CONTRACT: 7 MONTHS

INCREMENTAL PROGRESS: 5% (THIS PERIOD)

PRODUCTIVITY CONTINUES TO BE HIGH AT 126%, THOUGH IT IS DOWN 17 POINTS FROM DECEMBER (FROM 143% TO 126%) AND 47 POINTS FROM NOVEMBER (FROM 173% TO 126%).

EARNED COSTS = % COMPLETE X TOTAL COST BUDGET = .45 X 2897000 = \$ 1303650 (CUMULATIVE)

THIS CONTRACTOR, BEING AT 45% COMPLETE, HAS THEORETICALLY EARNED \$1303650.

COST PERFORMANCE INDEX	= EARNED COSTS		1303650		
(CUMULATIVE) - CPI)		=		=	1.45
	ACTUAL COSTS SPENT		900000		

THE COST PERFORMANCE INDICATES THAT, THEORETICALLY, WE ARE GETTING \$1.45 WORTH OF WORK FOR EVERY DOLLAR WE SPEND. DOWN \$0.20 FROM DECEMBER.

COST VARIANCE = ACTUAL \$ SPENT - EARNED \$ = 900000 - 1303650 = \$ (403650) (CUMULATIVE)

TO DATE, THIS CONTRACT HAS THEORETICALLY UNDERRUN BY \$403650.

COST ANALYSIS (CONTINUED)

CONTRACT # - A1.35 UNION STATION DESIGN CONTRACTOR - HARRY WEESE & ASSOCIATES

PERFORMANCE ASSESSMENT (CONTINUED)

\$ SPENT = ACTUAL COSTS SPENT = 900000 (CUMULATIVE) = ---- = 31.07\$BUDGET AT COMPLETION 2897000

THE CONTRACTOR HAS SPENT 31.07% OF THE TOTAL BUDGET VS. HIS PHYSICAL PROGRESS OF 45%.

EST. AT COMPLETION =	= BUDGET AT COMPLETION		397000		
(CALCULATED - EAC)	<u> </u>	=	=	E	\$ 20 0 0000
•	COST PERFORMANCE INDEX		1.45		

AT THE CURRENT RATE OF COST PERFORMANCE (CPI), WE PROJECT THAT THIS CONTRACT WILL BE COMPLETED AT A COST OF \$2000000. THIS REPRESENTS A COST UNDERRUN OF \$897000 OR A 30.96% DECREASE, DOWN \$247,500 FROM DECEMBER.

		=	BUDGET AT COMPLETION - EARNED COSTS	_	2897000	-	1303650	
•	PERFORMANCE INDEX		EST. AT COMPLETION - ACTUAL \$ SPENT (REPORTED)	-	2 897000	-	900000	

= 79,79%

TO COMPLETE PERFORMANCE INDEX INDICATES THAT THE CONTRACTOR MUST WORK AT 79.79% EFFICIENCY FOR THE BALANCE OF THE CONTRACT, IN ORDER TO COME IN ON BUDGET.

CONCLUSION

THE CONTRACTOR'S COST AND LABOR PLANS ARE IN QUESTION. OUR CALCULATIONS INDICATE THAT THE CONTRACTOR HAS A CUMULATIVE PRODUCTIVITY OF 126%, BUT HE IS BEHIND ON PROGRESS (SEE DESIGN STATUS REPORT 2/3/84 - PLANNED PROGRESS 50%, ACTUAL PROGRESS 45%).

IN THE NEAR FUTURE, THE COST OF RAILROAD RELOCATION WILL BE ADDED TO THE BUDGET; THIS WORK IS IN THE SCOPE OF THE CONTRACT BUT WAS NOT BUDGETED BY THE CONTRACTOR.

A135 CONTINUES TO PROJECT A COST UNDERRUN, ALTHOUGH THE MONTHLY FIGURES ARE DOWN FROM DECEMBER. WITH THE FUNDS ADDED TO THE BUDGET FOR RAILROAD RELOCATION THE CONTRACTOR'S LABOR AND COST PLANS WILL BE FURTHER OVERSTATED BASED ON HIS CURRENT PERFORMANCE.

SCHEDULE ANALYSIS STATUS AS OF: January 31, 1984

DESIGN CONTRACT: A13	5 Union Station Complete	AWARD:	07/07/83
DESIGN SUBCONTRACTOR:	Harry Weese & Associates	NTP:	07/13/83
PROJECT MANAGER (TSD/N	RTC): Low/Cooper	DURATION:	365 C.D.
		(CALENDAR	DAYS)

MAJOR MILESTONES	SCHEDULED	FORECAST	ACTUAL	VARIANCE
CONTROL SYSTEM SUBMITTAL	08/13/83	 	10/10/83	 ! – I
IN PROG. SUBMITTAL (60%)	02/01/84	02/27/84	-	-26
PRE FINAL SUBMITTAL (85%) 04/01/84	04/02/84	-	_1
FINAL SUBMITTAL (100%) 06/01/84	06/04/84	1 –	-3
BID DOCUMENTS	07/18/84	07/18/84	1 -	0 1
TIME OF PERFORMANCE	07/13/84	06/04/84	-	+39

RESOLUTIONS OF LAST PERIODS PROBLEMS:

Traction Power Substation design has been deleted from the scope of work.

*Revised CPM schedule dated 01/26/84 is approved by the MRTC Project Manager. A letter has not been written to document the approved CPM Schedule.

AREAS OF CONCERN:

Slippage to the in-progress submittal (60%) is due to lack of agreement between the LAUPT, Amtrak, SHPO and the District. The subcontractor has been involved in negotiations which affect design.

The subcontractor's monthly update CPM submittal is not being transmitted from MRTC to RTD Program Control.

COMMENTS:

Pursuant to the schedule review meeting held 01/25/84, the subcontractor is preparing a recovery plan to insure the completion of Bid Documents by mid-July '84.

PERFORMANCE ASSESSMENT:

The in-progress (60%) submittal is forecasted one month beyond the (approved) scheduled date. Project completion is forecast to complete as scheduled.

03/06/84 PC-14.20<5>

RID METRO RAIL PROJECT C.P.E. PHASE SUBCONTRACTOR EVALUATION JANUARY 1984

COST ANALYSIS

CONTRACT # - A140 CIVIC CENTER/5TH & HILL STATIONS DESIGN CONTRACTOR DELON HAMPTON & ASSOCIATES

COMMENTS ON MRTC PROGRESS REPORT

O NO MENTION HAS YET BEEN MADE THAT DHA HAS NOT APPOINTED A LOCAL PROJECT MANAGER.

PERFORMANCE ASSESSMENT

GN CONSULTANT
N/A
178
6204000
1178000
6204000
1103000
23800
110300

CONTRACT DURATION: 25 MONTHS MONTHS INTO CONTRACT: 7 MONTHS INCREMENTAL PROGRESS: 5.5% (THIS PERIOD)

	COMPLETE X TOTAL MH BUDGET	.17	X 110300	=	0.79
(CUMULATIVE) —	MHRS. SPENT "	_	23800		0.75

ACTIVITY IS UP FROM LAST MONTH (FROM 76% TO 79%) BUT IS STILL VERY LOW AND NEEDS TO IMPROVE.

EARNED COSTS = COMPLETE X TOTAL COST BUDGET = .17 X 6204000 = \$ 1054680 (CUMULATIVE)

THIS CONTRACTOR, BEING AT 17% COMPLETE, HAS THEORETICALLY EARNED \$1054680.

THE COST PERFORMANCE INDICATES THAT, THEORETICALLY, WE ARE GETTING \$0.90 WORTH OF WORK FOR EVERY DOLLAR WE SPEND. UP \$0.02 FROM DECEMBER.

COST VARIANCE = ACTUAL \$ SPENT - EARNED \$ = 1178000 - 1054680 = \$ 123320 (CUMULATIVE)

TO DATE, THIS CONTRACT HAS THEORETICALLY OVERRUN BY \$123320.

COST ANALYSIS (CONTINUED)

CONTRACT # - A140 - CIVIC CENTER/5TH & HILL STATIONS DESIGN CONTRACTOR - DELON HAMPTON & ASSOCIATES

PERFORMANCE ASSESSMENT (CONTINUED)

THE CONTRACTOR HAS SPENT 18.99% OF THE TOTAL BUDGET VS. HIS PHYSICAL PROGRESS OF 17%

EST. AT COMPLETION = BUDGET AT COMPLETION $= \frac{6204000}{-----} =$ \$ 6929412 COST PERFORMANCE INDEX 0.90

AT THE CURRENT RATE OF COST PERFORMANCE (CPI), WE PROJECT THAT THIS CONTRACT WILL BE COMPLETED AT A COST OF \$6929412. THIS REPRESENTS A COST OVERRUN OF \$725412 OR A 11.69% INCREASE. THE PERCENT OF INCREASE IS DOWN SLIGHTLY MORE THAN 2 PERCENTAGE POINTS FROM DECEMBER.

TO COMPLETE PERFORMANCE INDEX	=	BUDGET AT COMPLETION - EARNED COSTS	6204000	-	1054680
PERFORMANCE INDEX		EST. AT COMPLETION - ACTUAL \$ SPENT (REPORTED)	6204000	-	1178000

= 102.45%

TO COMPLETE PERFORMANCE INDEX INDICATES THAT THE CONTRACTOR MUST WORK AT 102.45% EFFICIENCY FOR THE BALANCE OF THE CONTRACT, IN ORDER TO COME IN ON BUDGET.

CONCLUSION

THE DISTRICT PROJECT MANAGER FEELS THAT THE LACK OF THE LOCALLY BASED CONSULTANT PROJECT MANAGER IS A FACTOR IN THE COST OVERRUN OF THIS CONTRACT, SINCE HIGH LEVEL MEMBERS OF THE DHA TEAM MUST FLY IN FROM THE EAST COAST TO ATTEND MEETINGS.

PROGRESS IS UP SLIGHTLY FROM DECEMBER AND THE POTENTIAL COST OVERRUN IS DOWN \$131,458. HOWEVER, THE RATE OF PROGRESS MUST INCREASE TO COMPLETE THIS CONTRACT ON BUDGET.

SCHEDULE ANALYSIS STATUS AS OF: January 31, 1984

07/25/83 DESIGN CONTRACT: A140 Line & Stage I Civic AWARD: Center & 5th Hill 07/27/83 DESIGN SUBCONTRACTOR: Delon Hampton & Associates NTP: PROJECT MANAGER (TSD/MRTC): Louis/Yacoub DURATION: 730

(CALENDAR DAYS)

MAJOR MILESTONES	SCHEDULED*	FORECAST	ACTUAL	VARIANCE	
CONTROL SYSTEM SUBMITTAL		_	10/31/83	_	
IN PROG. SUBMITTAL (60%)	08/01/84	08/01/84	1 –	0	1
PRE FINAL SUBMITTAL (85%)	03/01/85	03/01/85	-	0	
FINAL SUBMITTAL (100%)	06/10/85	06/10/85	1 –	0	1
BID DOCUMENTS	07/15/85	07/15/85	1 –	0	1
TIME OF PERFORMANCE	07/27/85	06/10/85	-	+47	

RESOLUTIONS OF LAST PERIODS PROBLEMS:

*An acceptable manpower listing was submitted and the Subcontractor's CPM Schedule (dated 10/28/83) has been approved. An approval letter has not been issued.

AREAS OF CONCERN:

The Subcontractor still does not have a full time Project Manager that is acceptable to MRTC. The TSD and MRTC Project Managers will pursue this matter to Delon Hampton's head office in Rockville, Maryland.

COMMENTS:

The required monthly updated CPM has not been received to date. The contractor's update is required in order to assess progress.

PERFORMANCE ASSESSMENT:

Project submittals are forecast to meet scheduled dates. A detailed assessment of current progress can not be determined until an updated CPM schedule is received.

RID METRO RAIL PROJECT C.P.E. PHASE SUBCONTRACTOR EVALUATION JANUARY 1984

COST ANALYSIS

CONTRACT # -	A165 7TH/FLOWER
DESIGN CONTRACTOR	GANNETT FLEMING/DWORSKY

COMMENTS ON MRTC PROGRESS REPORT

O NO MENTION OF WHAT CAUSED THE CONTRACT COST INCREASE DUE TO RENEGOTIATIONS.

PERFORMANCE ASSESSMENT

DATA REPORTED BY THE MRTC/DESIG % COMPLETE PLANNED - % COMPLETE ACTUAL - TOTAL COST BUDGET - \$ ACTUAL COST SPENT TO DATE - \$ FORECASTED COST - \$	N/A 25% 2387000	CONTRACT DURATION: MONTHS INTO CONTRACT:	_
TOTAL MANHOUR BUDGET -	56000	INCREMENTAL PROGRESS:	3%
ACTUAL HOURS SPENT TO DATE - FORECASTED HOURS -	56000	(THIS PERIOD)	
PRODUCTIVITY = % COMPLETE X TOTAL MH H (CUMULATIVE)	BUDGET .25	X 56000 =	= 1.11
CONSIDERING THE CHANGES THAT HAVE OCCUR	RRED RECENTLY, THIS	PRODUCTIVITY IS QUESTIC	NABLE.
EARNED COSTS = % COMPLETE X TOTAL COST (CUMULATIVE)	BUDGET = .25	x 2387000 = \$	596750
THIS CONTRACTOR, BEING AT 25% COMPLETE,	, HAS THEORETICALLY	EARNED \$596750.	

THE COST PERFORMANCE INDICATES THAT, THEORETICALLY, WE ARE GETTING \$1.01 WORTH OF WORK FOR EVERY DOLLAR WE SPEND. THIS IS A FAVORABLE CPI.

COST VARIANCE = ACTUAL \$ SPENT - EARNED \$ = 590000 - 596750 = \$ (6750) (CUMULATIVE)

TO DATE, THIS CONTRACT HAS THEORETICALLY UNDERRUN BY \$6750.

COST ANALYSIS (CONTINUED)

CONTRACT # - A165 - 7TH/FLOWER STATION DESIGN CONTRACTOR - GANNETT, FLEMING/DWORSKY

PERFORMANCE ASSESSMENT (CONTINUED)

 $\begin{array}{rcl} \$ & \text{SPENT} = & \text{ACTUAL COSTS SPENT} & 590000 \\ (CUMULATIVE) & ----- & = & ---- \\ & & \text{BUDGET AT COMPLETION} & 2387000 \end{array}$

THE CONTRACTOR HAS SPENT 24.72% OF THE TOTAL BUDGET VS. HIS PHYSICAL PROGRESS OF 25%.

AT THE CURRENT RATE OF COST PERFORMANCE (CPI), WE PROJECT THAT THIS CONTRACT WILL BE COMPLETED AT A COST OF \$2360000. THIS REPRESENTS A COST UNDERRUN OF \$27000 OR A 1.13% DECREASE.

TO COMPLETE	= BUDGET AT COMPLETION - EARNED COSTS	2387000 - 596750
PERFORMANCE INDEX	EST. AT COMPLETION - ACTUAL \$ SPENT (REPORTED)	2387000 - 590000

= 99.62%

TO COMPLETE PERFORMANCE INDEX INDICATES THAT THE CONTRACTOR MUST WORK AT 99.62% EFFICIENCY FOR THE BALANCE OF THE CONTRACT, IN ORDER TO COME IN ON BUDGET. IF WORK IS PROGRESSING AS REPORTED, THERE SHOULD BE NO PROBLEM MAINIAINING THIS EFFICIENCY RATIO.

CONCLUSION

THE COST ANALYSES THIS MONTH INDICATE POSITIVE PROGRESS, BUT ON A MORE REASONABLE LEVEL THAN LAST MONTH. LAST MONTH'S INCREMENTAL PROGRESS WAS 17% VS THIS MONTH'S INCREMENTAL PROGRESS OF 3%. HOWEVER, WITH THE INCREASED SCOPE OF WORK DUE TO THE LIGHT RAIL INTERFACE AND TRACTION POWER SUBSTATION RELOCATION, ONE COULD EXPECT A DECREASE IN THE ACTUAL PERCENT COMPLETE NOW BEING REPORTED.

SCHEDULE ANALYSIS STATUS AS OF: January 31, 1984

DESIGN CONTRACT:Al65 7th & Flower StationAWARD:04/28/83DESIGN SUBCONTRACTOR:Gannett Fleming/DworskyNTP:08/09/83PROJECT MANAGER(TSD/MRTC):Low/CooperDURATION:365(CALENDAR DAYS)

MAJOR MILESTONES	SCHEDULED	FORECAST	ACTUAL	VARIANCE
CONTROL SYSTEM SUBMITTAL IN PROG. SUBMITTAL (60%) PRE FINAL SUBMITTAL (85%) FINAL SUBMITTAL (100%) BID DOCUMENTS TIME OF PERFORMANCE	02/07/84) 05/22/84) 08/07/84 10/14/84	- 03/12/84 05/15/84 08/14/84 10/14/84 08/14/84	10/17/83 _ _ _ _ _ _	- -33 +7 -7 0 -5

RESOLUTIONS OF LAST PERIODS PROBLEMS:

The scope of work has been negotiated to accommodate the Los Angeles - Long Beach Light Rail Transit Line and the relocation of the Traction Power Substation.

Pursuant to the schedule review meeting (01/25/84), the subcontractor is developing a recovery plan to meet the requirements and the contract time of performance.

AREAS OF CONCERN:

Slippage to the in-progress submittal (60%) is due to the modifications required for light rail interface.

Monthly updated CPM Schedules have not been submitted to date.

COMMENTS:

The recovery plan is expected to be submitted by late-February '84.

PERFORMANCE ASSESSMENT:

Design progress is significantly behind the original schedule. An accurate assessment of progress will be determined when the revised CPM is submitted, approved and updated.

RID METRO RAIL PROJECT C.P.E. PHASE SUBCONTRACTOR EVALUATION JANUARY 1984

COST ANALYSIS

CONTRACT # -	A170 - WILSHIRE/ALVARADO
	SVERDRUP CORPORATION

COMMENTS ON MRTC PROGRESS REPORT

O NO MENTION OF MACARITHUR LAKE POTENTIAL CUT-AND-COVER PROBLEM.

PERFORMANCE ASSESSMENT

DATA REPORTED BY THE MRIC/DESI	GN CONSULTANT		
& COMPLETE PLANNED -	N/A		
8 COMPLETE ACTUAL -	328		
TOTAL COST BUDGET - \$	3119000	CONTRACT DURATION:	17 MONTHS
ACTUAL COST SPENT TO DATE - \$	956000	MONTHS INTO CONTRACT:	6 MONTHS
FORECASTED COST - S	3119000		
TOTAL MANHOUR BUDGET -	59800	INCREMENTAL PROGRESS:	12%
ACTUAL HOURS SPENT TO DATE -	18000	(THIS PERIOD)	
FORECASTED HOURS -	59800		

PRODUCTIVITY = %	COMPLETE X TOTAL MH BUDGET	.32	Х	59800		1.00	
(CUMULATIVE)					=	1.06	
, , , , , , , , , , , , , , , , , , ,	MHRS. SPENT		180	00			

THE CONSULTANT HAS MADE SUBSTANTIAL IMPROVEMENT IN PRODUCTIVITY.

EARNED COSTS = % COMPLETE X TOTAL COST BUDGET = .32 X 3119000 = \$ 998080 (CUMULATIVE)

THIS CONTRACTOR, BEING AT 32% COMPLETE, HAS THEORETICALLY EARNED \$998080.

THE COST PERFORMANCE INDICATES THAT, THEORETICALLY, WE ARE GETTING \$1.04 WORTH OF WORK FOR EVERY DOLLAR WE SPEND. DECEMBER'S CPI WAS .86, SO THERE HAS BEEN MUCH IMPROVEMENT THIS MONTH.

TO DATE, THIS CONTRACT HAS THEORETICALLY UNDERRUN BY \$42080.

COST ANALYSIS (CONTINUED)

CONTRACT # - A170 - WILSHIRE/ALVARADO DESIGN CONTRACTOR - SVERDRUP CORPORATION

PERFORMANCE ASSESSMENT (CONTINUED)

% SPENT =	ACTUAL COSTS SPENT		956000		
(CUMULATIVE)		=		=	30.65%
(00.02))	BUDGET AT COMPLETION		3119000		

THE CONTRACTOR HAS SPENT 30.65% OF THE TOTAL BUDGET VS. HIS PHYSICAL PROGRESS OF 32%.

EST. AT COMPLETION = BUDGET AT COMPLETION 3119000(CALCULATED - EAC) ----- = \$2987500 COST PERFORMANCE INDEX 1.04

AT THE CURRENT RATE OF COST PERFORMANCE (CPI), WE PROJECT THAT THIS CONTRACT WILL BE COMPLETED AT A COST OF \$2987500. THIS REPRESENTS A COST UNDERRUN OF \$131500 OR A 4.22% DECREASE.

	= BUDGET AT COMPLETION - EARNED COSTS	3119000 - 998080
PERFORMANCE INDEX	EST. AT COMPLETION - ACTUAL \$ SPENT (REPORTED)	3119000 - 956000

= 98.05%

TO COMPLETE PERFORMANCE INDEX INDICATES THAT THE CONTRACTOR MUST WORK AT 98.05% EFFICIENCY FOR THE BALANCE OF THE CONTRACT, IN ORDER TO COME IN ON BUDGET. BASED ON PAST PERFORMANCE, THIS EFFICIENCY SHOULD NOT BE DIFFICULT TO ATTAIN.

CONCLUSION

THERE HAS BEEN SUBSTANTIAL IMPROVEMENT IN ALL COST RATIOS AND COMPARISONS FROM LAST MONTH. THIS IS DUE, IN PART, TO OVERTIME BEING WORKED BY THE CONSULTANT TO GET BACK ON SCHEDULE.

THE METHOD OF CONSTRUCTION UNDER MACARTHUR LAKE IS BEING STUDIED AT THIS TIME AND MAY RESULT IN INCREASED DESIGN AND CONSTRUCTION COSTS.



SCHEDULE ANALYSIS STATUS AS OF: January 31, 1984

DESIGN CONTRACT: A170	Wilshire/Alvarado Station	AWARD:	04/28/83
DESIGN SUBCONTRACTOR:	Sverdrup & Parcel Assocs.	NTP:	08/09/83
PROJECT MANAGER (TSD/MR	TC): Thakarar/Hodges	DURATION:	485
	_	(CALENDAR	DAYS)

3 (2001 13 1

IDDINOD

MAJOR MILESTONES	SCHEDULED	FURECAST	ACTUAL	VARIANCE
CONTROL SYSTEM SUBMITTAL			09/19/83	– –7
PRE FINAL SUBMITTAL (85%) 06/26/84	06/25/84	1	+1
FINAL SUBMITTAL (100% BID DOCUMENTS) 11/06/84 11/24/84		1	
TIME OF PERFORMANCE	12/07/84	11/05/84	1	+32

RESOLUTIONS OF LAST PERIODS PROBLEMS:

MA TOD MALE DOBOMEC

The revised CPM dated 01/26/84 is approved by MRTC and payments will be released in February'84. A letter has not been written to document this.

Subcontractor has been working overtime to regain the schedule.

AREAS OF CONCERN:

MRTC's recommendation for construction under MacArthur Lake continues to be delayed. Revised directive drawings of the crossover (which may include a pocket track) have not been issued to the subcontractor and may cause potential delay to design.

MRTC Program Control is not transmitting the subcontractor's monthly updated CPM to the RTD Program Control.

COMMENTS:

*The 60% submittal of the tunnel and station shell will be submitted 02/15/84 and the 60% submittal of Stage II Design will be submitted 04/03/84.

PERFORMANCE ASSESSMENT:

A detailed assessment of progress cannot be determined until the updated CPM Schedule is received.

RTD METRO RAIL PROJECT C.P.E. PHASE SUBCONTRACTOR EVALUATION JANUARY 1984

COST ANALYSIS

CONTRACT # -	A195 WILSHIRE/VERMONT	
DESIGN CONTRACTOR	KOBER/MAGUIRE	

COMMENTS ON MRTC PROGRESS REPORT

- O NO MENTION OF RESULTS OF OFFICE VISIT MADE BY MRTC PROJECT MANAGER.
- O NO DISCUSSION OF PROBLEM AREAS.
- THE MRTC NARRATIVE SHOULD BE SPECIFIC ON ACTIVITIES THAT ARE HAPPENING DUE TO DESIGN CHANGE DIRECTIVES BY SCRID OR ANY OTHER CHANGES THAT IMPACT (POTENTIAL AS WELL AS ACTUAL) THE COST OF THIS CONTRACT AND ORIGINAL SCOPE.

PERFORMANCE ASSESSMENT

% COMPLETE ACTUAL - TOTAL COST BUDGET - \$ ACTUAL COST SPENT TO DATE - \$ FORECASTED COST - \$ TOTAL MANHOUR BUDGET - ACTUAL HOURS SPENT TO DATE -	V/A ~ 45% 1541000 598000 1541000 33900		MONTHS INCREM	CT DURATION INTO CONTR ENTAL PROGR S PERIOD)	ACT:	6 MONTHS
PRODUCTIVITY = % COMPLETE X TOTAL MH BE (CUMULATIVE)	UDGET	.45	х	33900	=	1.11
MHRS. SPENT			13700			
WITH THIS OVERALL PRODUCTIVITY, THE CONS	SULTANT SHOULD	BE AH	EAD OF	SCHEDULE.		
EARNED COSTS = % COMPLETE X TOTAL COST H (CUMULATIVE) THIS CONTRACTOR, BEING AT 45% COMPLETE,					\$	693450
COST PERFORMANCE INDEX = EARNED COSTS (CUMULATIVE) - CPI)	= <u></u>		: C).99		
ACTUAL COSTS SPE THE COST PERFORMANCE INDICATES THAT, TH DOLLAR WE SPEND. A SATISFACTORY CPI.		e are	GETTIN	IG \$0.99 WOR	TH OF	WORK FOR EVERY
 COST VARIANCE = ACTUAL \$ SPENT - EARN	ED \$ = 698000	0 -	693	3450 =	\$	4550

COST VARIANCE = ACTUAL \$ SPENT - EARNED \$ = 698000 - 693450 = \$ 4550 (CUMULATIVE)

TO DATE, THIS CONTRACT HAS THEORETICALLY OVERRUN BY \$4550.

COST ANALYSIS (CONTINUED)

CONTRACT # - A195 WILSHIRE/VERMONT DESIGN CONTRACTOR - KOBER/MAGUIRE

PERFORMANCE ASSESSMENT (CONTINUED)

\$ SPENT = ACTUAL COSTS SPENT = 698000 (CUMULATIVE) = ---- = 45.30% BUDGET AT COMPLETION 1541000

THE CONTRACTOR HAS SPENT 45.30% OF THE TOTAL BUDGET VS. HIS PHYSICAL PROGRESS OF 45%.

EST. AT COMPLETION	=	BUDGET AT COMPLETION		1541000		
(CALCULATED - EAC)			=		=	\$ 1551111
•		COST PERFORMANCE INDEX		0.99		

AT THE CURRENT RATE OF COST PERFORMANCE (CPI), WE PROJECT THAT THIS CONTRACT WILL BE COMPLETED AT A COST OF \$1551111. THIS REPRESENTS A COST OVERRUN OF \$10111 OR A .66% INCREASE.

•• •==	=	BUDGET AT COMPLETION - EARNED COSTS	_	1541000	-	693450	_
PERFORMANCE INDEX		EST. AT COMPLETION - ACTUAL \$ SPENT (REPORTED)	-	1541000	-	698000	

= 100.54%

TO COMPLETE PERFORMANCE INDEX INDICATES THAT THE CONTRACTOR MUST WORK AT 100.54% EFFICIENCY FOR THE BALANCE OF THE CONTRACT, IN ORDER TO COME IN ON BUDGET.

CONCLUSION

THE COST ANALYSIS FOR THE MONTH OF JANUARY IS SOMEWHAT MISLEADING. IN FOLLOWING THIS CONTRACT AS IT PROGRESSES, TO THE BEST OF MY KNOWLEDGE, THERE ARE CHANGE ORDERS EXISTING THAT ARE GOING TO IMPACT THE COST OF THE OVERALL CONTRACT. THESE CHANGES ARE DUE TO DESIGN DIRECTIVES FROM SCRID.

THE MRTC PROGRESS REPORT DOES NOT INCLUDE A FORECAST ADDRESSING THE CHANGES THAT WE KNOW EXIST TODAY. FURTHERMORE, IF THESE CHANGES ARE EXTENSIVE AND ARE ADDED TO THEIR REPORTING BASE; I WOULD EXPECT TO SEE A DROP IN THE CONTRACTOR'S REPORTED PERCENT COMPLETE AND AN INCREASE IN THE PROJECTED CONTRACT COST AT COMPLETION.



SCHEDULE ANALYSIS STATUS AS OF: January 31, 1984

DESIGN CONTRACT:A195 Wilshire/VermontAWARD:08/05/83DESIGN SUBCONTRACTOR:Kober/MaquireNTP:08/12/83PROJECT MANAGER(TSD/MRTC):Taylor/StickelDURATION:365(CALENDAR DAYS)

MAJOR MILESTONES	SCHEDULED	FORECAST	ACTUAL	VARIANCE
BID DOCUMENTS	02/07/84) 05/22/84) 08/07/84 09/19/84	09/19/84	09/19/83 - - -	
TIME OF PERFORMANCE	08/12/84	08/07/84	-	+5

RESOLUTIONS OF LAST PERIODS PROBLEMS:

Subcontractor is proceeding with the relocation of the Traction Power Substation underground.

AREAS OF CONCERN:

Changes that are made to the Standard and Directive drawings without approval and/or coordination with the respective design disciplines could result in additional cost and potential delay to design. Changes should be approved and coordinated prior to issuance.

COMMENTS:

MRTC Program Control is not transmitting the Subcontractor's monthly updated CPM Schedules to the TSD Program Control.

PERFORMANCE ASSESSMENT:

Project is currently anticipated to complete on time.

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RID METRO RAIL PROJECT C.P.E. PHASE SUBCONTRACTOR EVALUATION JANUARY 1984

COST ANALYSIS

CONTRACT # - A220 WILSHIRE/NORMANDIE, WILSHIRE/WESTERN DESIGN CONTRACTOR TUDOR/PEREIRA

COMMENTS ON MRTC PROGRESS REPORT

O RTD NEEDS SOILS REPORT FOR TUNNEL AND STATIONS.

O RID NEEDS RESOLUTION OF VENT SHAFT CONFIGURATION, DETERMINATION OF FOUNDATION CONDITIONS AT TWO BUILDINGS OVER THE TUNNEL OFF WILSHIRE.

PERFORMANCE ASSESSMENT

DATA REPORTED BY THE MRTC/DESIG	GN CONSULTANT		
% COMPLETE PLANNED -	N/A		
8 COMPLETE ACTUAL -	7% 4677000	CONTRACT DURATION:	25 MONTHS
TOTAL COST BUDGET - \$ ACTUAL COST SPENT TO DATE - \$	352000	MONTHS INTO CONTRACT:	4 MONTHS
FORECASTED COST - \$	4677000		
TOTAL MANHOUR BUDGET -	79000	INCREMENTAL PROGRESS:	38
ACTUAL HOURS SPENT TO DATE -	5800	(THIS PERIOD)	
FORECASTED HOURS -	79000		

PRODUCTIVITY = % COMPLETE X TOTAL MH BUDGET	.07 X 79000	=	0.95
(CUMULATIVE) =		-	0.95
MHRS, SPENT	5800		

A SATISFACTORY PRODUCTIVITY LEVEL.

EARNED COSTS = % COMPLETE X TOTAL COST BUDGET = .07 X 4677000 = \$ 327390 (CUMULATIVE)

THIS CONTRACTOR, BEING AT 7% COMPLETE, HAS THEORETICALLY EARNED \$327390.

 $\begin{array}{rcrcrc} \text{COST PERFORMANCE INDEX} &= \text{EARNED COSTS} & 327390 \\ (\text{CUMULATIVE} - CPI) & ----- &= & ---- \\ & & ----- &= & 0.93 \\ & & ----- &= & 0.93 \end{array}$

THE COST PERFORMANCE INDICATES THAT, THEORETICALLY, WE ARE GETTING \$0.93 WORTH OF WORK FOR EVERY DOLLAR WE SPEND. A SATISFACTORY C.P.I.

COST VARIANCE = ACTUAL \$ SPENT - EARNED \$ = 352000 - 327390 = \$ 24610 (CUMULATIVE)

TO DATE, THIS CONTRACT HAS THEORETICALLY OVERRUN BY \$24610.

COST ANALYSIS (CONTINUED)

CONTRACT # - A220 WILSHIRE/NORMANDIE, WILSHIRE/WESTERN DESIGN CONTRACTOR - TUDOR/PEREIRA

PERFORMANCE ASSESSMENT (CONTINUED)

THE CONTRACTOR HAS SPENT 7.53% OF THE TOTAL BUDGET VS. HIS PHYSICAL PROGRESS OF 7%.

EST. AT COMPLETION = BUDGET AT COMPLETION $= \frac{4677000}{----} = 5028571 COST PERFORMANCE INDEX 0.93

AT THE CURRENT RATE OF COST PERFORMANCE (CPI), WE PROJECT THAT THIS CONTRACT WILL BE COMPLETED AT A COST OF \$5028571. THIS REPRESENTS A COST OVERRUN OF \$351571 OR A 7.52% INCREASE.

	*	BUDGET AT COMPLETION - EARNED COSTS	4677000		-	327390
PERFORMANCE INDEX		EST. AT COMPLETION - ACTUAL \$ SPENT (REPORTED)	_	4677000	-	352000

= 100.57

TO COMPLETE PERFORMANCE INDEX INDICATES THAT THE CONTRACTOR MUST WORK AT 100.57% EFFICIENCY FOR THE BALANCE OF THE CONTRACT, IN ORDER TO COME IN ON BUDGET. CONTRACTOR MUST INCREASE HIS PRODUCTIVITY BY 5.57% FOR THE DURATION OF THE CONTRACT TO COME IN ON BUDGET. THIS SHOULD NOT BE DIFFICULT TO ACHIEVE.

CONCLUSION

CONTRACTOR IS PROGRESSING STEADILY. ARCHITECTURAL PRESENTATIONS HAVE BEEN PRESENTED TO MRTC AND RID.

SCHEDULE ANALYSIS STATUS AS OF: January 31, 1984

DESIGN CONTRACT: 220-Line Section & Stage I AWARD: 10/10/83 at Normandie & Western DESIGN SUBCONTRACTOR: Tudor/Pereira NTP: 10/10/83 PROJECT MANAGER (TSD/MRTC): Bilco/Cofer DURATION: 730

(CALENDAR DAYS)

MAJOR MILESTONES	SCHEDULED	FORECAST	ACTUAL	VARIANCE
CONTROL SYSTEM SUBMITTAL		_	10/24/83	I –
IN PROG. SUBMITTAL (60%)	10/08/84	10/08/84	1 –	1 –
PRE FINAL SUBMITTAL (85%) 04/08/85	04/08/85	1 –	1 – 1
FINAL SUBMITTAL (100%) 09/16/85		-	1 – 1
BID DOCUMENTS	10/28/85	10/28/85	1 –	
TIME OF PERFORMANCE	10/07/85	10/07/85	I –	I – 1

RESOLUTIONS OF LAST PERIODS PROBLEMS:

At grade site development at Wilshire/Western Station released (early cert.). The location of the Traction Power Substation was finalized and design work is underway.

AREAS OF CONCERN:

The soils report for the tunnel section is needed for design; further delay will impact design. The information regarding the existing foundation of buildings between Vermont and Normandie is required.

COMMENTS:

An updated design subcontractor schedule has not been received.

PERFORMANCE ASSESSMENT:

The subcontractor is performing well. The contract is currently one or two weeks behind schedule. An updated design schedule is necessary in completing the assessment.

RID METRO RAIL PROJECT C.P.E. PHASE SUBCONTRACTOR EVALUATION JANUARY 1984

COST ANALYSIS

CONTRACT # - A240 WILSHIRE/CRENSHAW DESIGN CONTRACTOR TURNER/CHANG

COMMENTS ON MRTC PROGRESS REPORT

NONE

PERFORMANCE ASSESSMENT

DATA REPORTED BY THE MRTC/DESIGN CONSULTANT % COMPLETE PLANNED -N/A & COMPLETE ACTUAL -08 TOTAL COST BUDGET - \$ 2395000 ACTUAL COST SPENT TO DATE - \$ 0 2395000 FORECASTED COST - \$ TOTAL MANHOUR BUDGET -44600 0 ACTUAL HOURS SPENT TO DATE -44600 FORECASTED HOURS -

CONTRACT DURATION:	12 MONTHS
MONTHS INTO CONTRACT:	0 MONTHS
INCREMENTAL PROGRESS: (THIS PERIOD)	0%

NOTICE TO PROCEED WAS ISSUED DECEMBER 31, 1983 MAKING IT TOO EARLY TO EVALUATE PROGRESS.



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SCHEDULE ANALYSIS STATUS AS OF: January 31, 1984

DESIGN CONTRACT: 240-Wilshire/Crenshaw Station	AWARD:	01/18/84
DESIGN SUBCONTRACTOR: Turner/Chang	NTP:	01/27/84
PROJECT MANAGER (TSD/MRTC): Bilco/Bejau	DURATION: (CALENDAR	366 DAYS)

MAJOR MILESTONES	SCHEDULED	FORECAST	ACTUAL	VARIANCE
CONTROL SYSTEM SUBMITTAL	02/16/84	02/16/84	 _	1 – 1
IN PROG. SUBMITTAL (60%)	07/16/84	07/16/84	-	-
PRE FINAL SUBMITTAL (85%) 10/22/84	10/22/84	-	_
FINAL SUBMITTAL (100%) 01/14/85	01/14/85	! –	-
BID DOCUMENTS	02/14/85	02/14/85	-	-
TIME OF PERFORMANCE	01/25/85	01/25/85	-	! - [

RESOLUTIONS OF LAST PERIODS PROBLEMS:

Notice to Proceed has been issued.

AREAS OF CONCERN:

There are no problem areas concerning the design subcontractor.

COMMENTS:

Kick-off Meeting is scheduled for early next month.

PERFORMANCE ASSESSMENT:

No assessment of the design subcontractor can be made at this time.

03/06/84 PC-14.20<11>

RID METRO RAIL PROJECT C.P.E. PHASE SUBCONTRACTOR EVALUATION JANUARY 1984

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COST ANALYSIS

CONTRACT # -- A245 WILSHIRE/LA BREA DESIGN CONTRACTOR STV ENGINEERS/LYON ASSOCIATES

COMMENTS ON MRTC PROGRESS REPORT

O NO PROBLEM AREAS ARE BEING ADDRESSED.

PERFORMANCE ASSESSMENT

DATA REPORTED BY THE MRTC/DESI & COMPLETE PLANNED - & COMPLETE ACTUAL - TOTAL COST BUDGET - \$ ACTUAL COST SPENT TO DATE - \$ FORECASTED COST - \$ TOTAL MANHOUR BUDGET - ACTUAL HOURS SPENT TO DATE - FORECASTED HOURS -	N/A 15% 1609000 180000 1609000 32200	MONTHS	T DURATION: INTO CONTRACT: NTAL PROGRESS: PERIOD)	4 MONTHS
PRODUCTIVITY = % COMPLETE X TOTAL MH	BUDGET	.15 X	32200	1.38
(CUMULATIVE)				1.30
PRODUCTIVITY IS HIGH AT 138%, AND IS U CUMULATIVE BASIS.				
EARNED COSTS = & COMPLETE X TOTAL COST (CUMULATIVE)	BUDGE1 = .15	X 1909000	-	241300
THIS CONTRACTOR, BEING AT 15% COMPLETE	, HAS THEORETIC	ALLY EARNED \$	5241350	
COST PERFORMANCE INDEX = EARNED COSTS (CUMULATIVE - CPI) ACTUAL COSTS SE	=		. 34	
THE COST PERFORMANCE INDICATES THAT, T DOLLAR WE SPEND. A HIGH FIGURE, CONSI	THEORETICALLY, W	E ARE GETTING PRODUCTIVITY	G \$1.34 WORTH OF FIGURE AND ALSO	WORK FOR EVERY
COST VARIANCE = ACTUAL \$ SPENT - EAF (CUMULATIVE)		0 - 2413	350 = \$	(61350)

TO DATE, THIS CONTRACT HAS THEORETICALLY UNDERRUN BY \$61350.

COST ANALYSIS (CONTINUED)

CONTRACT # - A245 WILSHIRE/LA BREA DESIGN CONTRACTOR - STV ENGINEERS/LYON ASSOCIATES

PERFORMANCE ASSESSMENT (CONTINUED)

THE CONTRACTOR HAS SPENT 11.19% OF THE TOTAL BUDGET VS. HIS PHYSICAL PROGRESS OF 15%.

EST. AT COMPLETION = BUDGET AT COMPLETION = $\frac{1609000}{=}$ = $\frac{1609000}{=}$ = \$1200000 COST PERFORMANCE INDEX 1.34

AT THE CURRENT RATE OF COST PERFORMANCE (CPI), WE PROJECT THAT THIS CONTRACT WILL BE COMPLETED AT A COST OF \$1200000. THIS REPRESENTS A COST UNDERRUN OF \$409000 OR A 25.42% DECREASE.

TO COMPLETE PERFORMANCE INDEX	=	BUDGET AT COMPLETION - EARNED COSTS	_ 1609000		241350	
PERFORMANCE INDEX		EST. AT COMPLETION - ACTUAL \$ SPENT (REPORTED)	1609000		180000	

= 95.71%

TO COMPLETE PERFORMANCE INDEX INDICATES THAT THE CONTRACTOR MUST WORK AT 95.71% EFFICIENCY FOR THE BALANCE OF THE CONTRACT IN ORDER TO COME IN ON BUDGET.

CONCLUSION

FOR THE SECOND CONSECUTIVE MONTH, PRODUCTIVITY IS UNREASONABLY HIGH (138%) AND A COST UNDERRUN IS CALCULATED (\$409,000). A COST AND LABOR FORECAST BY THE MRTC IS DEFINITELY NEEDED AS BOTH THE COST AND LABOR PLANS APPEAR TO BE PRODUCTIVE (SEE DESIGN STATUS REPORT 2/3/84 - PLANNED PROGRESS 21%, ACTUAL PROGRESS 15%).

THE COST IMPACT OF PUTTING THE TPSS UNDERGROUND HAS NOT BEEN EVALUATED.

NOTE: IN TABLE IV-17 (CONSULTANT COST SUMMARY) THE MONTHLY BUDGET FIGURE FOR SEPTEMBER 1984 SHOULD BE 126 (INSTEAD OF 123).

SCHEDULE ANALYSIS STATUS AS OF: January 31, 1984

DESIGN CONTRACT: 245-Wilshire/La Brea Station	AWARD:	10/17/83
DESIGN SUBCONTRACTOR: STV/Lyon	NTP:	10/10/83
PROJECT MANAGER (TSD/MRTC): Streitman/Hodges	DURATION:	365
	(CALENDAR I	DAYS)

MAJOR MILESTONES	SCHEDULED	FORECAST	ACTUAL	VARIANCE
CONTROL SYSTEM SUBMITTAL			11/16/83	-
IN PROG. SUBMITTAL (60%)	04/16/84	04/16/84	-	-
PRE FINAL SUBMITTAL (85%) 07/07/84	07/07/84	-	I – I
FINAL SUBMITTAL (100%) 10/16/84	10/16/84	I –	I – I
BID DOCUMENTS	10/06/84		- 1	I - I
TIME OF PERFORMANCE	10/09/84	10/09/84	–	-

RESOLUTIONS OF LAST PERIODS PROBLEMS:

Subcontractor told to assume TPSS location to be underground. An evaluation of the location is in progress with a decision expected in February.

Recovery to the schedule will be made by working overtime. Anticipating to be on schedule in a couple of months.

AREAS OF CONCERN:

There are no problem areas at this time that will affect the progress of this contract.

COMMENTS:

A monthly updated schedule has not been received by Program Control.

The award letter dated October 17, 1983 is later than the NTP letter dated October 10, 1983.

PERFORMANCE ASSESSMENT:

The subcontractor is currently behind schedule due to manpower mobilization.

03/06/84 PC-14.20<12>

SCHEDULE ANALYSIS STATUS AS OF: January 31, 1984

DESIGN CONTRACT: 250-Lir Wilshir	ne Section an re/Fairfax	nd Stage I	AWARD:	06/16/83
DESIGN SUBCONTRACTOR: Be PROJECT MANAGER (TSD/MRTC)	chtel : Streitmar	n/Cooper	NTP: DURATIC (CALENE	Not Issued DN: N/A DAR DAYS)
MAJOR MILESTONES	SCHEDULED	FORECAST	ACTUAL	VARIANCE
CONTROL SYSTEM SUBMITTAL			– –	

PRE FINAL SUBMITTAL	(85%)	-	i -	-	i –	i
FINAL SUBMITTAL	(100%)	_	1 –	1 –	i –	İ
BID DOCUMENTS		-	- 1	-	I –	
TIME OF PERFORMANCE	ļ	-	-	! –	-	1

RESOLUTIONS OF LAST PERIODS PROBLEMS:

The Notice to Proceed remains unissued. General plans prepared and resubmitted to subcontractor for cost estimate. Renegotiation of subcontractor's contract set for February.

AREAS OF CONCERN:

Delay to NTP is now 4-1/2 months.

COMMENTS:

NTP pending approval of subcontract cost estimate by RTD, and the approval of the General Plan by Park La Brea Associates.

PERFORMANCE ASSESSMENT:

No assessment of the design subcontractor can be made at this time.

03/06/84 PC-14.20<13>

RID METRO RAIL PROJECT C.P.E. PHASE SUBCONTRACTOR EVALUATION JANUARY 1984

COST ANALYSIS

CONTRACT # -	A275 – FAIRFAX/BEVERLY
DESIGN CONTRACTOR	WILSHIRE DESIGN ASSOCIATES

COMMENTS ON MRTC PROGRESS REPORT

NONE

PERFORMANCE ASSESSMENT

DATA REPORTED BY THE MRTC/DESIGN CONSULTANT & COMPLETE PLANNED - N/A & COMPLETE ACTUAL - 2.5% TOTAL COST BUDGET - \$ 2250000 ACTUAL COST SPENT TO DATE - \$ 67000 FORECASTED COST - \$ 2250000 . TOTAL MANHOUR BUDGET - 41300 ACTUAL HOURS SPENT TO DATE - 1200 FORECASTED HOURS - 41300

CONTRACT DURATION: 12 MONTHS MONTHS INTO CONTRACT: 1 MONTH INCREMENTAL PROGRESS: 2.5% (THIS PERIOD)



CONCLUSION

NOTICE TO PROCEED WAS ISSUED ON DECEMBER 29, 1983, MAKING IT TOO EARLY TO EVALUATE PROGRESS.

SCHEDULE ANALYSIS STATUS AS OF: January 31, 1984

DESIGN CONTRACT:275-Fairfax/Beverly StationAWARD:12/30/83DESIGN SUBCONTRACTOR:Wilshire Design AssociatesNTP:12/30/83PROJECT MANAGER(TSD/MRTC):Streitman/TalletDURATION:365(CALENDAR DAYS)

MAJOR MILESTONES	SCHEDULED	FORECAST	ACTUAL	VARIANCE
CONTROL SYSTEM SUBMITTAL IN PROG. SUBMITTAL (60%) PRE FINAL SUBMITTAL (85% FINAL SUBMITTAL (100%	06/28/84) 09/29/84) 12/27/84	06/28/84 09/29/84 12/27/84		
BID DOCUMENTS TIME OF PERFORMANCE	01/26/85 12/30/84		–	

RESOLUTIONS OF LAST PERIODS PROBLEMS:

NTP issued December 19, 1983 and the Kick-off Meeting was held on January 5, 1984.

AREAS OF CONCERN:

At this time there are no problem areas.

COMMENTS:

The control system submittal was not made, the submittal is forecast for February.

PERFORMANCE ASSESSMENT:

Design has started with problems.

03/06/84 PC-14.20<14>

RTD METRO RAIL PROJECT C.P.E. PHASE SUBCONTRACTOR EVALUATION JANUARY 1984

CONTRACT # - A310 FAIRFAX/SANTA MONICA, LA BREA/SUNSET DESIGN CONTRACTOR CARTER ENGINEERS/AMMANN & WHITNEY

COMMENTS ON MRTC PROGRESS REPORT

NONE

PERFORMANCE ASSESSMENT

DATA REPORTED BY THE MRTC/DESIGN CONSULTANT & COMPLETE PLANNED – N/A & COMPLETE ACTUAL – 4% TOTAL COST BUDGET – \$ 4410000 ACTUAL COST SPENT TO DATE – \$ 111000 FORECASTED COST – \$ 4410000 TOTAL MANHOUR BUDGET – 84200 ACTUAL HOURS SPENT TO DATE – 1600 FORECASTED HOURS – 84200

CONTRACT DURATION: 25 MONTHS MONTHS INTO CONTRACT: 2 MONTHS INCREMENTAL PROGRESS: 2.5% (THIS PERIOD)



CONCLUSION

NOTICE TO PROCEED WAS ISSUED ON DECEMBER 5, 1983, MAKING IT TOO EARLY TO EVALUATE PROGRESS.

SCHEDULE ANALYSIS STATUS AS OF: January 31, 1984

DESIGN CONTRACT: 310-Fairfax/Sta. Monica, La Brea/Sunset & Line DESIGN SUBCONTRACTOR: Carter Engrs./Ahmann & Whitney NTP: 12/05/83 PROJECT MANAGER(TSD/MRTC): Shah/Yacoub DURATION: 730 (CALENDAR DAYS)

MAJOR MILESTONES	SCHEDULED	FORECAST	ACTUAL	VARIANCE
CONTROL SYSTEM SUBMITTAL	12/19/83	–	01/17/84	_
IN PROG. SUBMITTAL (60%)	12/03/84	12/03/84	–	-
PRE FINAL SUBMITTAL (85%) 06/03/85	06/03/85	-	-
FINAL SUBMITTAL (100%) 12/02/85	12/02/85	-	-
BID DOCUMENTS	12/21/85	12/21/85	! –	-
TIME OF PERFORMANCE	12/05/85	12/05/85	_	I – I

RESOLUTIONS OF LAST PERIODS PROBLEMS:

The Design Status Report issued by MRTC has been corrected to reflect the "Scheduled" and "Forecast" dates of the contract.

The Control System documents have been received at MRTC.

AREAS OF CONCERN:

For this period, there are no reported areas of concern.

COMMENTS:

As of status date, TSD has not conducted a complete Design Schedule Review of this contract due to partial and incomplete submittal of Control System documents by MRTC.

PERFORMANCE ASSESSMENT:

The subcontractor is on schedule.

03/06/84 PC-14.20<15>

RID METRO RAIL PROJECT C.P.E. PHASE SUBCONTRACTOR EVALUATION JANUARY 1984

COST ANALYSIS

CONTRACT # -	A350	HOLLYWOOD/CAHUENGA
DESIGN CONTRACTOR	STULL	ASSOCIATES

COMMENTS ON MRTC PROGRESS REPORT

NONE

PERFORMANCE ASSESSMENT

DATA REPORTED BY THE MRTC/DESIGN CONSULTANT & COMPLETE PLANNED – N/A & COMPLETE ACTUAL – 5% TOTAL COST BUDGET – \$ 2071000 ACTUAL COST SPENT TO DATE – \$ 50000 FORECASTED COST – \$ 2071000 TOTAL MANHOUR BUDGET – 43100 ACTUAL HOURS SPENT TO DATE – 1000 FORECASTED HOURS – 43100

CONTRACT DURATION: 16 MONTHS MONTHS INTO CONTRACT: 1 MONTH INCREMENTAL PROGRESS: 5% (THIS PERIOD)

CONCLUSION

NOTICE TO PROCEED WAS ISSUED ON DECEMBER 31, 1983, MAKING IT TOO EARLY TO EVALUATE PROGRESS.

SCHEDULE ANALYSIS STATUS AS OF: January 31, 1984

DESIGN CONTRACT: A350-Hollywood/Cahuenga Stations A	WARD:	05/16/83
DESIGN SUBCONTRACTOR: Stull Associates N	TP:	12/29/83
PROJECT MANAGER (TSD/MRTC): Shah/Stickel D	URATION:	486
((CALENDAR I	DAYS)

MAJOR MILESTONES	SCHEDULED	FORECAST	ACTUAL	VARIANCE
CONTROL SYSTEM SUBMITTAL	01/11/84	01/11/84		_
IN PROG. SUBMITTAL (60%)	08/27/84	08/27/84	-	-
PRE FINAL SUBMITTAL (85%) 12/20/84	12/20/84	- 1	-
FINAL SUBMITTAL (100%) 05/02/85	05/02/85	-	-
BID DOCUMENTS	01/10/85	01/10/85	1 –	-
TIME OF PERFORMANCE	04/25/85	04/25/85	1 –	1 – 1

RESOLUTIONS OF LAST PERIODS PROBLEMS:

Updated the major milestones against the "Scheduled" and "Forecast" dates of the Design Status Report.

AREAS OF CONCERN:

The Control System documents have not been received as of the status date.

COMMENTS:

The subcontractor has not complied with the MRTC Program Control Procedures, Revision 5, regarding Control System submittal.

PERFORMANCE ASSESSMENT:

The subcontractor is behind schedule due to the late submittal of the Control System submittal.

03/06/84 PC-14.20<16>

RID METRO RAIL PROJECT C.P.E. PHASE SUBCONTRACTOR EVALUATION JANUARY 1984

CONTRACT # - A410 HOLLYWOOD/CAHUENGA TO UNIVERSAL CITY DESIGN CONTRACTOR TRANSIT AND TUNNEL CONSULTANTS

COMMENTS ON MRTC PROGRESS REPORT

NONE

PERFORMANCE ASSESSMENT

DATA REPORTED BY THE MRTC/DESIGN CONSULTANT & COMPLETE PLANNED – N/A & COMPLETE ACTUAL – 2% TOTAL COST BUDGET – \$ 2627000 ACTUAL COST SPENT TO DATE – \$ 80000 FORECASTED COST – \$ 2627000 ~ TOTAL MANHOUR BUDGET – 46000 ACTUAL HOURS SPENT TO DATE – 1200 FORECASTED HOURS – 46000

CONTRACT DURATION: 12 MONTHS MONTHS INTO CONTRACT: 1 MONTH INCREMENTAL PROGRESS: 2% (THIS PERIOD)

CONCLUSION

NOTICE TO PROCEED WAS ISSUED ON DECEMBER 28, 1983, MAKING IT TOO EARLY TO EVALUATE PROGRESS.

SCHEDULE ANALYSIS STATUS AS OF: January 31, 1984

DESIGN CONTRACT: 410-Line Between Hollywood/ Cahuenga & Universal City DESIGN SUBCONTRACTOR: Transit & Tunnel PROJECT MANAGER(TSD/MRTC): Shah/Cofer DURATION: 365 (CALENDAR DAYS)

MAJOR MILESTONES	SCHEDULED	FORECAST	ACTUAL	VARIANCE
CONTROL SYSTEM SUBMITTAL			-	1 - 1
IN PROG. SUBMITTAL (60%) PRE FINAL SUBMITTAL (85%				
•	b) 12/28/84		1 -	
BID DOCUMENTS	02/22/85		1 -	<u> </u>
TIME OF PERFORMANCE	12/28/84	12/28/84	! -	I – I

RESOLUTIONS OF LAST PERIODS PROBLEMS:

"Scheduled" and "Forecast" dates of the major milestones have been updated based on the Design Status Report.

AREAS OF CONCERN:

As of the status date, the Control System documents have not been received. This delay may cause slippage in schedule.

COMMENTS:

The Subcontractor has not complied with MRTC Program Control Procedures, Revision 5, regarding Control System Submittal.

PERFORMANCE ASSESSMENT:

Consultant is behind schedule. There is a variance of 20 calendar days between the schedule date and the status date for the Control System Submittal.

SCHEDULE ANALYSIS STATUS AS OF: January 31, 1984

DESIGN CONTRACT: 415-Hollywood Bowl DESIGN SUBCONTRACTOR: Edwards & Kelcey PROJECT MANAGER(TSD/MRTC): Shah/Cofer AWARD: 09/16/83 NTP: Not Issued DURATION: N/A (CALENDAR DAYS)

MAJOR MILESTONES	SCHEDULED	FORECAST	ACTUAL	VARIANCE
CONTROL SYSTEM SUBMITTAL	, _	–	_	l – 1
IN PROG. SUBMITTAL (60%)	-	-	-	-
PRE FINAL SUBMITTAL (85%)] —	1 –	1 –	1 – 1
FINAL SUBMITTAL (100%) —	i – i	i –	-
BID DOCUMENTS	1 –	-	-	-
TIME OF PERFORMANCE	1 -	1 –	1 –	-

RESOLUTIONS OF LAST PERIODS PROBLEMS:

There were no problems reported for last period.

AREAS OF CONCERN:

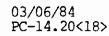
NTP has not been issued as of status date. This long delay may cause slippage in overall schedule.

COMMENTS:

NTP is projected to be issued in early February.

PERFORMANCE ASSESSMENT:

No progress has been reported for this Contract.





SCHEDULE ANALYSIS STATUS AS OF: January 31, 1984

DESIGN CONTRACT:425-Universal CityAWARD:06/16/83DESIGN SUBCONTRACTOR:Luckman PartnershipNTP:Not IssuedPROJECT MANAGER(TSD/MRTC):Quesada/McCauleyDURATION:365(CALENDAR DAYS)

MAJOR MILESTONES	SCHEDULED	FORECAST	ACTUAL	VARIANCE
CONTROL SYSTEM SUBMITTAL	–	–	1 –	1 – 1
IN PROG. SUBMITTAL (60%)	-	1 – 1	1 –	1 – 1
PRE FINAL SUBMITTAL (85%) -	ļ —	-	-
FINAL SUBMITTAL (100%) -	1 –	1 –	1 –
BID DOCUMENTS	1 -	-		1 – 1
TIME OF PERFORMANCE	- 1	-	i –	-

RESOLUTIONS OF LAST PERIODS PROBLEMS:

There were no problems reported last period.

AREAS OF CONCERN:

NTP has not been issued. NTP was scheduled to have been issued November, 1983. This continuous delay may cause slippage in overall schedule.

COMMENTS:

The Contract has been reviewed. NTP is expected to be issued in early February.

PERFORMANCE ASSESSMENT:

No progress for this Contract will be reported for this period.

RID METRO RAIL PROJECT C.P.E. PHASE SUBCONTRACTOR EVALUATION JANUARY 1984

COST ANALYSIS

CONTRACT # - A430 UNIVERSAL CITY TO NORTH HOLLYWOOD DESIGN CONTRACTOR PAE/WH/S & W

COMMENTS ON MRTC PROGRESS REPORT

NONE

PERFORMANCE ASSESSMENT

DATA REPORTED BY THE MRTC/DESIGN CONSULTANT N/A % COMPLETE PLANNED -8 COMPLETE ACTUAL -38 1969000 TOTAL COST BUDGET - \$ ACTUAL COST SPENT TO DATE - \$ 45000 1969000 FORECASTED COST - \$ 40000 TOTAL MANHOUR BUDGET -ACTUAL HOURS SPENT TO DATE -700 40000 FORECASTED HOURS -

CONTRACT DURATION: 12 MONTHS MONTHS INTO CONTRACT: 1 MONTH INCREMENTAL PROCRESS: 3% (THIS PERIOD)

CONCLUSION

NOTICE TO PROCEED WAS ISSUED ON DECEMBER 28, 1983, MAKING IT TOO EARLY TO EVALUATE PROGRESS.

SCHEDULE ANALYSIS STATUS AS OF: January 31, 1984

DESIGN CONTRACT:	430-Line Between Universal City	AWARD:	06/16/83
	North Hollywood		
DESIGN SUBCONTRAC	TOR: PAE/WH/S&W	NTP:	12/29/83
PROJECT MANAGER (T	SD/MRTC): Quesada/Hodges	DURATION:	365
	· · ·	(CALENDAR DA	AYS)

MAJOR MILESTONES	SCHEDULED	FORECAST	ACTUAL	VARIANCE
CONTROL SYSTEM SUBMITTAL	. 01/11/84	01/11/84	 _	i _ I
IN PROG. SUBMITTAL (60%)	07/06/84	07/06/84	i –	i – i
PRE FINAL SUBMITTAL (85%) 10/08/84	10/08/84	1 –	1 – 1
FINAL SUBMITTAL (1008) 12/28/84	12/28/84	1 – 1	-
BID DOCUMENTS	01/28/85	01/28/85	-	1 – 1
TIME OF PERFORMANCE	12/31/84	12/31/84	1 –	-

RESOLUTIONS OF LAST PERIODS PROBLEMS:

The NTP date has been confirmed. The correct date is shown above.

AREAS OF CONCERN:

As of status date, Control System documents have not been submitted.

This submittal was scheduled for January 11, 1984. The delay may cause slippage in the schedule.

COMMENTS:

According to the Design Status Report and the MRTC Progress Report for January, the Control System documents have been received. However, TSD has not received any submittal as of the status date.

PERFORMANCE ASSESSMENT:

This Contract is behind schedule. Compliance to the Control System submittal has not been met by the Subcontractor.

03/06/84 PC-14.20<20>

RID METRO RAIL PROJECT C.P.E. PHASE SUBCONTRACTOR EVALUATION JANUARY 1984

COST ANALYSIS

CONTRACT # -	A445 - NORTH HOLLYWOOD
DESIGN CONTRACTOR	HUGH GIBBS & DONALD GIBBS

COMMENTS ON MRTC PROGRESS REPORT

NONE

PERFORMANCE ASSESSMENT

DATA REPORTED BY THE MRTC/DESIGN CONSULTANT & COMPLETE PLANNED - N/A & COMPLETE ACTUAL - 1.5% TOTAL COST BUDGET - \$ 2142000 ACTUAL COST SPENT TO DATE - \$ 46000 FORECASTED COST - \$ 2142000 . TOTAL MANHOUR BUDGET - 45100 ACTUAL HOURS SPENT TO DATE - 700 FORECASTED HOURS - 45100

CONTRACT DURATION: 19 MONTHS MONTHS INTO CONTRACT: 1 MONTH INCREMENTAL PROGRESS: 1.5% (THIS PERIOD)

CONCLUSION

NOTICE TO PROCEED WAS ISSUED ON DECEMBER 28, 1983, MAKING IT TOO EARLY TO EVALUATE PROGRESS.

SCHEDULE ANALYSIS STATUS AS OF: January 31, 1984

DESIGN CONTRACT: 445-Hollywood Station AWARD: 06/16/83 DESIGN SUBCONTRACTOR: Hugh Gibbs & Don Gibbs NTP: 12/29/83 PROJECT MANAGER(TSD/MRTC): Quesada/Challes DURATION: 548 (CALENDAR DAYS)

MAJOR MILESTONES	SCHEDULED	FORECAST	ACTUAL	VARIANCE
CONTROL SYSTEM SUBMITTAL	01/11/84	01/11/84	-	1 – 1
IN PROG. SUBMITTAL (60%)	09/20/84	09/20/84	1 –	-
PRE FINAL SUBMITTAL (85%) 01/31/85	01/31/85	-	1 – !
FINAL SUBMITTAL (100%) 05/27/85	05/27/85	1 –	-
BID DOCUMENTS	06/28/85	06/28/85	-	1 – 1
TIME OF PERFORMANCE	06/28/85	06/28/85	1 –	–

RESOLUTIONS OF LAST PERIODS PROBLEMS:

The NTP date has been confirmed. The correct date is shown above.

AREAS OF CONCERN:

Control System documents have not been received as of the status date. This submittal was scheduled for 01/11/84. This delay may cause slippage in the schedule.

COMMENTS:

The major milestones scheduled dates, as shown above, reflect the dates reported in the Design Status Report. The scheduled dates are subject to changes due to revision of the Contract.

PERFORMANCE ASSESSMENT:

The subcontractor is behind schedule due to the last submission of the Control System documents.

03/06/84 PC-14.20<21>



CONTINUED PRELIMINARY ENGINEERING BUDGET & COST REPORT

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PROFESSIONAL SERVICES CONTRACTS

January 1984

Audit #	Contract	\$ Budget	\$ Actual	C=Completed or % Phys. Compl.	l On Schedule
I. TRANS	SIT FACILITIES				
2256 2440-2	CWDD DMJM/PBQ&D	360,000 50,000			Yes Yes
2284-3 3056 2510-2	Lindvall Richter L.A. Co. Museum Harry Weese	150,000 24,500 50,000	79,379 16,333	* 70	Yes Yes Yes
2900-3	Schimpeler Corradino	30,000	- 0 -	0	Ye s
TOTAL TRA	NSIT FACILITIES	\$664,500	\$544,338	N/A	N/A
II. SYSTE	MS DESIGN & ANALYSIS				
2434-5 2439-2 3090	Booz-Allen & Hamilton Kaiser Engineers Cons. Fire Prot. Dist.	,	50,000 94,842	C C *	Ye s Ye s *
3136 3170	Booz-Allen & Hamilton Mellon Institute	1,000,000 24,900	153,637 - 0 -	26 *	No *
TOTAL SYS	TEMS DESIGN & ANALYSIS	\$1,407,649	\$536,028	N/A	N/A
III. PROG	RAM CONTROL				
3044	Sharon Clark	9,900	9,536	С	No
TOTAL P	ROGRAM CONTROL	\$ 9,900	\$ 9,536	N/A	N/A
IV. PLAN	NING				
3010 2797-2 3137	CRA Robert Harmon Jt. Dev. of Sta. Plans	500,000 50,000 573,000	46,57 50,00 -0-		No Yes Yes
3138	City Master Agreement	753,000	-0-	0	No
TOTAL PI	LANNING	\$1,876,000	\$ 96,57	7 N/A	N/A
A.B.DICK P&C 1.2					

2.29.84

CONTINUED PRELIMINARY ENGINEERING BUDGET AND COST REPORT (cont'd)

				C=Completed	
		^	<u>^</u>	or % Dise	0
A	Contract	\$ Budaat	\$	% Phys.	On
Audit #	Contract	Budget	Actual	Compl.	Schedule
IV. R	EAL ESTATE - YARD & SHO	PS ACQUISITIO	DN		
2963	AT&SF Railway	44,000	31,458	*	*
3032	Flavell	50,000	36,716	*	*
3033	Lea Associates	50,000	39,329	*	*
2994	TICOR	8,300	8,300	С	Yes
TOTAL 1	YARD & SHOPS ACQUISITION	N \$152,300	\$115,803	N/A	N/A
0 T 1	HER REAL ESTATE				
2000		a 4 000	0	4	
3000	County of L.A.	24,900	-0- -0-	*	*
3116	Chicago Title Service Robert Swanson	es 50,000 22,500		*	*
3102 3161	Eugene Guiterrez	4,000	12,300 -0-	*	*
3162	Robert Jackson	3,500	-0-	*	*
3163	Ralph Laurain	3,750	-0-	*	*
3164	David Zoraster	3,500	-0-	*	*
3175	TICOR	75,000	5,200	*	*
3189	Joseph Gary	5,000	2,163	*	*
3139	William Helpes	4,250	-0-	*	*
3182	Thomas Scabra	8,500	-0-	*	*
3180	Lowell Steward Assoc		-0-	*	*
3150	Jack Joe	3,500	-0-	*	*
		.,	5		
TOTAL	OTHER REAL ESTATE	\$210,900	19,663	N/A	N/A
TOTAL	REAL ESTATE	\$363,200	\$135,466	N/A	N/A
VI. LE	EGAL				
3009	MPR&T	24,500	-0-	*	*
2990	Bill Hecht	24,500	-0-	*	*
	-	,	-		
TOTAL	LEGAL	\$ 49,000	\$ -0-	N/A	N/A

A.B.DICK P&C-1.2 2.29.84

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CONTINUED PRELIMINARY ENGINEERING BUDGET AND COST REPORT (cont'd)

			C=Complete	ed
Audit # Contract	\$ Budget	\$ <u>Actual</u>	or % Phys. Compl.	On Schedule
VII. MISCELLANEOUS CONTRAC	CTS			
3030Dillon Reed & Co.3065David B. Ashley3096First Boston Corp	7,000	-0- 6,911 -0-	* C *	* * *
TOTAL MISCELLANEOUS CONTR	RACTS \$ 56,800	\$ 6,911	N/A	N/A
VIII. GENERAL CONSULTANT				
2967 MRTC	39, 302 ,96 0	12,493,688	N/A	N/A
TOTAL GENERAL CONSULTANT	\$ 39, 302 ,96 0	\$12,493,688	N/A	N/A
GRAND TOTAL C.P.E.	\$43,730,009	\$13,772,544	N/A	N/A

Note: Asterisked (*) items indicate Peer Review Boards, General Managers Transit Technical Advisory Committee and "As Needed" Consultants for whom schedule status is not relevant.

A.B.DICK P&C-1.2 2.29.84

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Date Prepared: 02/17/84 Status Date: 01/31/84

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CONTINUING PRELIMINARY ENGINEERING

UNOBLIGATED_RESERVED BUDGET AMOUNTS-PROFESSIONAL SERVICES CONTRACTS

Listed below are budget amounts reserved for Professional Services Contracts. In parenthesis is the date the budget amounts are expected to be committed (authorized for solicitation by the Board, advertised, or for which negotiations have been started pursuant to an approved purchase requisition). The list is subdivided into two parts: "Proposed Contract Changes" which identifies proposed amendments to current contracts and "Proposed New Contracts" which identifies dollar amounts in areas where new contracts will be needed.

On a monthly basis this list is updated reflecting the most current information on proposed new or amended contracts, dollar amounts, and expected commitment dates.

I. PROPOSED CONTRACT CHANGES:

TOTAL PROPOSED CONTRACT CHANGES \$ - 0 -

II. PROPOSED NEW CONTRACTS:

Transit Facilities		
o Value Engineering Consultants		
(20 @ 24,900 each)	\$ 498,000	(03/84)
o Relocation Plan Consultant	60,000	(N/A)
o Dept. of Water & Power -		, , ,
Water Division	300,000	(05/84)
Power Division	300,000	(05/84)
Total Transit Facilities	\$ 1,158,000	
Real Estate - Yard & Shops Acq.		
o Review Appraisals	\$ 7,950	(02/84)
Total Real Estate	\$ 7,950	

02/29/84 P&C(WP)-8.5

		Date Pre Status I	-	02/17/84 01/31/84
<u>Planning</u> o Modeling o Joint Development of Stations	\$ \$	250,000 130,000	(03/8 (02/8	
Total Planning	\$	380,000		
<u>Misc.</u> o Proposed Admin. of Owner Controlled Insurance Program Total Misc.	<u>\$</u> \$	600,000 600,000	(3/84)
TOTAL PROPOSED NEW CONTRACTS	\$2	,145,950		
GRAND TOTAL UNOBLIGATED - RESERVED BUDGET AMOUNTS FOR PROFESSIONAL SERVICES CONTRACTS			\$	2,145,950

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Date Prepared: 02/17/84 Status Date: 01/31/84

CONTINUING PRELIMINARY ENGINEERING

CURRENT BUDGET: UNOBLIGATED-COMMITTED PROFESSIONAL SERVICES CONTRACTS

Listed below are Professional Services Contracts which are forecasted but unobligated as of the status date. In parenthesis is the date the contract is expected to be obligated (signed by the General Manager). The list is subdivided into two parts: "Proposed Contract Changes" which identifies proposed amendments to current contracts; "Proposed New Contracts" which in dollar amounts in areas where new contracts will be needed.

On a monthly basis this list is updated reflecting the most current information on proposed new or amended contracts, dollars amounts, and expected obligation dates.

I. PROPOSED CONTRACT CHANGES:

o NBMB&W	\$ 15,000	(02/84)
Total Legal	\$ 15,000	
TOTAL PROPOSED CONTRACT CHANGES	\$ 15,000	
PROPOSED NEW CONTRACTS:		
Construction Management o Construction Management o W. H. Patterson o Eugene Stann	\$ 450,000 7,000 7,000	(02/84)
Total Construction Management	\$ 464,000	
Transit Facilities o Western Union Telegraph o Pacific Bell o Cal Trans	\$ 60,000 200,000 2,800,000	
Total Transit Facilities	\$ 3,060,000	
<u>Systems Design & Analysis</u> o SRI (Computer Services)	20,000	(03/84)
Total SD & A	\$ 20,000	

02/29/84 P&C(WP)-8.10

II.

Date Prepared: 02/17/84 Status Date: 01/31/84

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<u>Planning</u> o General Planning Consultant Svcs.	\$_	630,000	(03/8	34)
Total General Planning	\$	630,000		
Other Real Estate o Arthur Anderson o Norman Eichel o Lee Hill o Robert Swanson	\$	1,550 8,500 2,500 15,000	(02/8 (02/8 (02/8 (02/8	34) 34)
Total Other Real Estate	\$	27,550		
TOTAL PROPOSED NEW CONTRACTS	\$	4,201,550		
GRAND TOTAL UNOBLIGATED-COMMITTED PROFESSIONAL SERVICES CONTRACTS			\$	4,216,550

02/29/84 P&C(WP)-8.10



SECTION III TOTAL PROJECT

TOTAL PROJECT STATUS

JANUARY 1984

This section details the \$123.556 million budgeted for the Metro Rail Project. Expenditures to date total \$49.395 million.

The accompanying graph illustrates the planned expenditures, \$79.0 million, against the actual expenditures, \$49.4 million. This variance is due primarily to expenditures in Professional Services being less than projected to date.

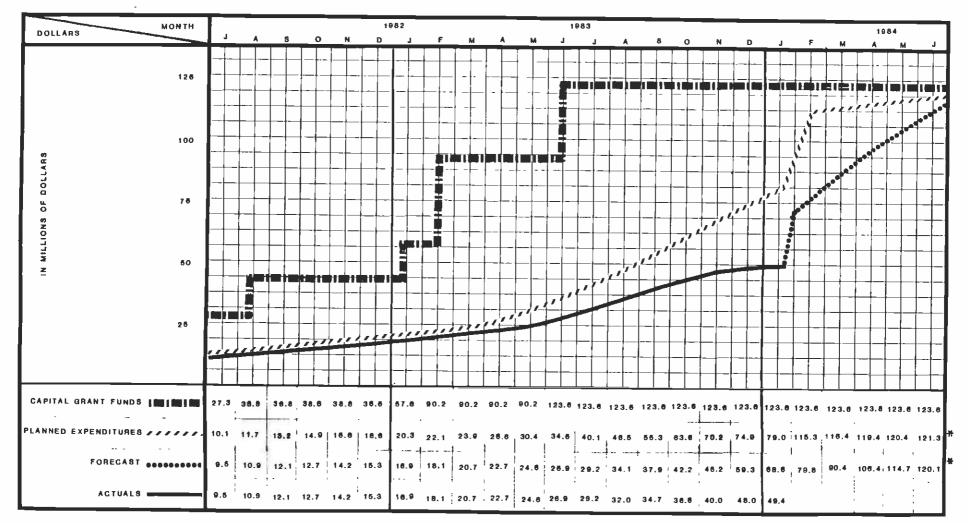
The status as of 1/31/84 is that SCRTD has \$1.209 million remaining which will be expended if any contracts, obligated or unobligated, are signed during the next five months.

A grant from LACTC has been awarded to RTD for \$2.5 million for the Master Agreement with CALTRANS. This grant will be reflected in next month's Cost/Schedule Status Report.

RTD

RTD METRO RAIL PROJECT TOTAL PROJECT STATUS

JANUARY 1984



EXCLUDING CONTINGENCIES

S RTD

0 3/07/84 P&C (WP) --7.6

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Date Prepared: 2/20/84 Status as of : 1/31/84 WBS # : 11DAA3113

SCRID METRO RAIL PROJECT TOTAL PROJECT BUDGET SUMMARY BY MACS CODE (\$000'S)

		1	UNOBLIGATED		OBL	IGATIONS TO I	DATE	1			
		RESERVED	COMMITTED	TOTAL	UNEXPENDED	EXPENDED	TOTAL	CURRENT	EST. AT	APPROVED	VARIANCE/
AFE*	MACS ** CODE) DESCRIPTION		1			I	1	WKG, BUDGET	COMPLETION	BUDGET	1 %
0211		(1)	(2)	(3=1+2)	(4)	(5) ,	(6=4+5)	<u> (7=3+6)</u>	(8)	(9)	l (10=9-8)
A. 	(20.02.01) Purchase of Support Autos	 \$18	 \$-0-	 \$18	 \$ -0 -	 \$22	 \$22	 \$ 40	 \$ 40	 \$ 40	 \$ 0/0%
В. 	(20.02.02) Purchase/Installation of Support Equipment	75	50	125	 20	1,169	 1,189	1,314	 1,314	 1,314	0/0%
TBD 	(20.02.07) Purchase/Installation of MIS Equipment	77	- 0 -	77	823	- 0 -	823	900	 900	 900	0/0%
TBD 	(20.02.08) Purchase/Installation of Communications Equipment	100	- 0 -	100	- 0 -	- 0 -	-0-	100	 100	100	0/0%
с.	(20.08.01) Professional Services Contracts	2,146	4,217	6,363	30,177	37,590	67,767	 74,130	 74,130	 74,130	0/0%
D.	(20.15.02) Force Account Work	2,375	- 0 -	2,375	- 0 - 1	8,185	8,185	 10,560 	 10,560	 10,560	0/0%

03/07/84 P&C(WP)-7.6

Date Prepared: 2/20/84 Status as of : 1/31/84 WBS # : 11DAA3113

SCRID METRO RAIL PROJECT TOTAL PROJECT BUDGET SUMMARY BY MACS CODE (\$000'S)

		UNOBLIGATED			OBLIGATIONS TO DATE			I			
		RESERVED	COMMITTED	TOTAL	UNEXPENDED	EXPENDED	TOTAL	CURRENT	EST. AT	APPROVED	VARIANCE/
AFE*	(,				1		l	WKG. BUDGET	COMPLETION	BUDGET	8
¦	DESCRIPTION	(1)	(2)	<u>(3=1+2)</u>	(4)	(5)	(6=4+5)	(7=3+6)	l (8)	(9)	(10=9-8)
E. 	(20.15.90) Other Supporting Services 	152	48	200	1 40	2,142	2,182	2,382	2,382	2,382	0/0%
F. 	(32.00.00) Contingencies	1,209	- 0 -	1,209	 - 0	- 0 -	- 0 -	1,209	- 0 -	1,209	1,209/0%
G. 	(20.16.00) General & Administrative	15	13	28	 92 	171	263	291	291	291	0/0%
10451 	ROW Acquisition for Central Yard & Shops	32,478	- 0 -	32,478	36 	116	152	32,630	32,630	32,630	0/0%
 	GRAND TOTAL	\$ 38,645	\$ 4,328	\$ 42,973	 \$31,188 	\$49,395	\$ 80,583	\$ 123,556	\$ 122,347	\$ 123,556	\$ 1,209/18

* AFE - Authorization for Expenditure ** MACS - Management and Control System