

COST AND SCHEDULE

STATUS REPORT

March 1985

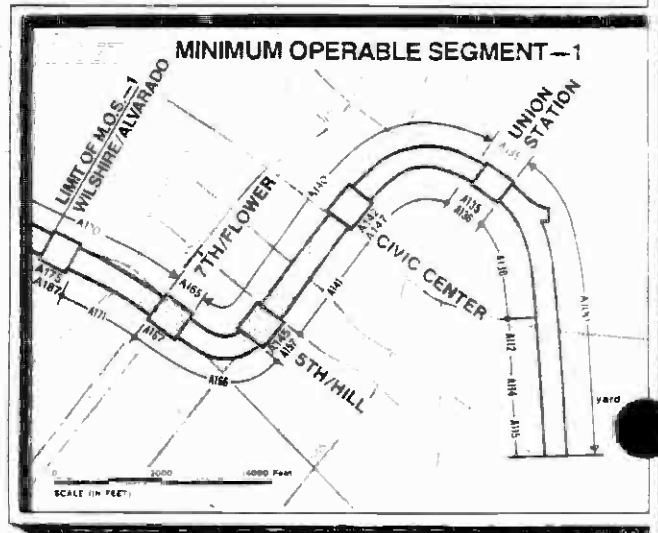
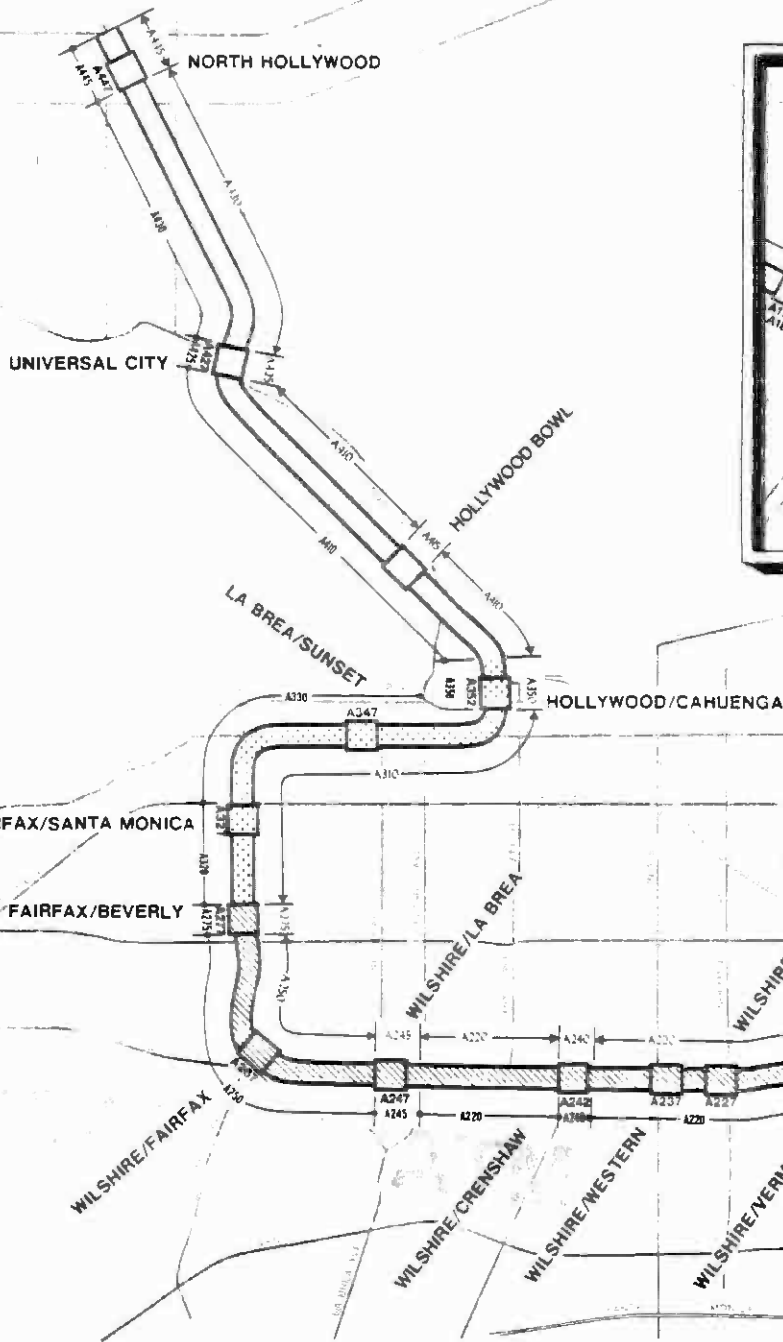
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SOUTHERN CALIFORNIA RAPID TRANSIT DISTRICT

NOVEMBER 1984



METRO RAIL PROJECT PROJECT UNIT INDEX



SEE P. 011

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30 '88

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SECTION I: BUDGET SUMMARY

RTD

RTD METRO RAIL PROJECT

STATUS NARRATIVE

MARCH 1985

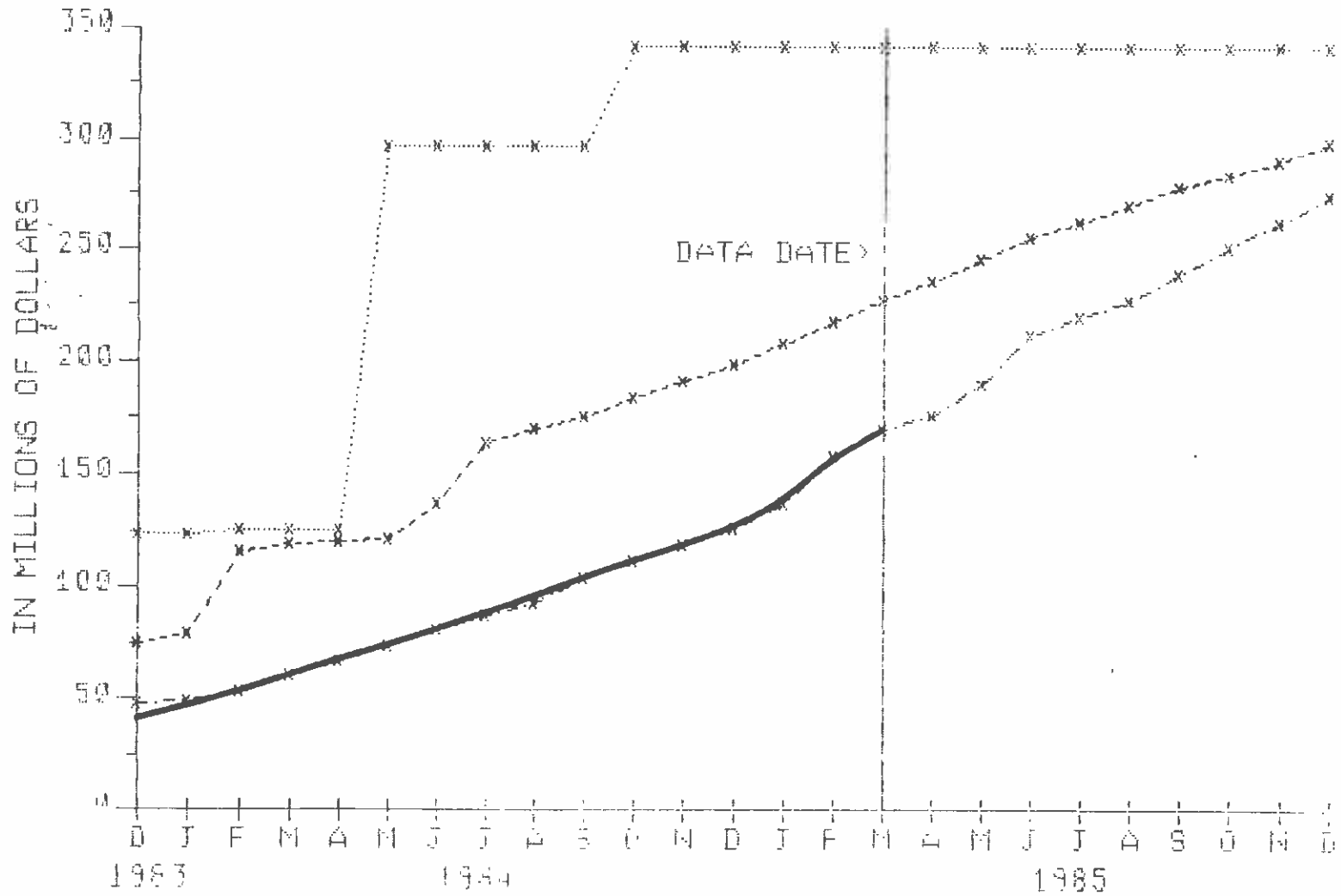
The Total Project Approved Budget is now \$338.090 million which includes contingencies, advanced land acquisition, revenue financing and all funding sources. Total Project expenditures to date total \$170.421 million.

The accompanying graph illustrates the planned expenditures of \$227.4 million against the actual expenditures. This variance of \$57 million is primarily due to the late issuance of contract NTP's and the late acquisition of R-O-W properties.

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RTD METRO RAIL PROJECT
 TOTAL PROJECT STATUS
 AS OF MARCH 1985



-x- FORECAST
— ACTUALS
-x- PLANNED EXPENDITURES
-x- CAPITAL GRANT TO RTD

SOUTHERN CALIFORNIA RAPID TRANSIT DISTRICT
METRO RAIL PROJECT R05-1

REV. 0
FEB 14, 85

OBLIGATIONS PLAN/FORECAST
(1st DIR. 1985 FUNDING)

CONTRACT #	DESCRIPTION	NTP DATE	ESTIMATED								
			COSTS (000)	OBLIG. DATE	FY'85	FY'86	FY'87	FY'88	FY'89	FY'90	FY'91
A-111	CURBS/GUTTERS/SIDEWALK - SANTE FE AVENUE	11/17/87	183						183		
A-112	MAIN SHOP BUILDING & YARD SERVICE AREA	8/7/85	24638		24638						
A-114	MAINTENANCE-OF-WAY SHOP BUILDING	8/7/85	4024		4024						
A-115	YARD STORAGE AREA	2/27/86	4364		4364						
A-116	YARD SITE SECURITY FENCING	4/5/89	234						234		
A-117	YARD SITE LIGHTING	4/5/89	293						293		
A-118	YARD SITE LANDSCAPING	3/28/88	83					83			
A-119	TRACK RELOCATION, 1st ST. & HOBART YARD	4/1/85	16500	16500							
A-130	YARD LEADS & TRANSFER ZONE	1/7/86	40502		40502						
NA-007	YARD/SHOPS - TELEPHONE RELOCATION	5/1/85	131		131						
NA-093	YARD/SHOPS - GAS RELOCATION	5/1/85	581		581						
NA-009	YARD/SHOPS - WATER RELOCATION	5/1/85	235		235						
NA-YYY	YARD/SHOPS - CHEVRON RELOCATION	1/7/86	303		303						
A-133	UNION STATION - BAGGAGE HANDLING	9/5/85	1605		1605						
A-135	UNION STATION - STAGE I	9/5/85	34193		34193						
A-136	UNION STATION - STAGE II	5/8/87	13846			13846					
A-138	UNION STATION - SITEWORK - CURBS/GUTTERS	10/3/89	1129							1129	
A-139	UNION STATION - SITE LANDSCAPING	10/3/89	207							207	
A-137	CENTRAL CONTROL FACILITY	8/4/86	2661				2661				
A-141	LINE-UNION TO 7th/FLOWER-CIVIC CIR STG 1	12/16/85	56832		56832						
NA-009	SN/HILL - POWER RELOCATION	4/1/85	1683	1683							
NA-007	SN/HILL - TELEPHONE RELOCATION	4/1/85	579		579						
NA-093	SN/HILL - GAS RELOCATION	4/1/85	316		316						
NA-009	SN/HILL - WATER RELOCATION	4/1/85	579		579						
NA-446	SN/HILL - CABLE TV RELOCATION	4/1/85	32		32						
NA-111	SN/HILL - WESTERN UNION	4/1/85	16		16						
A-145	SN/HILL STATION - STAGE 1	12/16/85	48227		48227						
NA-009	CIVIC CENTER - POWER RELOCATION	4/1/85	57		57						
NA-007	CIVIC CENTER - TELEPHONE RELOCATION	4/1/85	226		226						
NA-009	CIVIC CENTER - WATER RELOCATION	4/1/85	195		195						
NA-111	CIVIC CENTER - WESTERN UNION	4/1/85	5		5						
A-142	CIVIC CENTER EXCAVATION & SUPPORT	8/7/85	12403		12403						
NA-093	EXCAV. SUPPORT - GAS RELOCATION	4/1/85	57		57						
A-147	CIVIC CENTER STATION - STAGE II	7/14/86	17729							17729	
A-157	SN/HILL STATION - STAGE II	11/18/87	17494						17494		
A-148	SN/HILL - VAULTS RELOCATION	9/9/85	425		425						

SOUTHERN CALIFORNIA RAPID TRANSIT DISTRICT
METRO RAIL PROJECT NOS-1

REV. 0
FEB 14, 85

OBLIGATIONS PLAN/FORECAST
11st QTR. 1985 FUNDING

CONTRACT #	DESCRIPTION	ESCALATED									
		NTP DATE	COSTS (000)	OBLIG. TO DATE	FY'85	FY'86	FY'87	FY'88	FY'89	FY'90	FY'91
A-166	LINE-SIN/MILL-7th/FLOWER-7th/FLOWER STATION SIG 1	12/16/85	70655		70655						
A-167	7th/FLOWER STATION - STAGE II	3/29/88	9490					9490			
NA-009	7th/FLOWER - POWER RELOCATION	4/1/85	341		341						
NA-007	7th/FLOWER - TELEPHONE RELOCATION	4/1/85	455		455						
NA-093	7th/FLOWER - GAS RELOCATION	4/1/85	57		57						
NA-009	7th/FLOWER - WATER RELOCATION	4/1/85	455		455						
NA-446	7th/FLOWER - CABLE TV RELOCATION	4/1/85	26		26						
NA-111	7th/FLOWER - WESTERN UNION	4/1/85	114		114						
A-171	LINE - 7th/FLOWER TO WILSHIRE/VERMONT	9/19/85	30643		30643						
A-175	WILSHIRE/ALVARADO STATION - STAGE I	9/19/85	30617		30617						
A-187	WILSHIRE/ALVARADO STATION - STAGE II	7/14/88	9640					9640			
A-185	WILSHIRE/ALVARADO STATION - SITEWORK	5/11/89	923					923			
A-186	WILSHIRE/ALVARADO STATION - SITE LANDSCAPE	5/11/89	125					125			
NA-009	WILSHIRE/ALVARADO - POWER RELOCATION	4/16/85	58		58						
NA-007	WILSHIRE/ALVARADO - TELEPHONE RELOCATION	4/16/85	57		57						
NA-093	WILSHIRE/ALVARADO - GAS RELOCATION	4/16/85	104		104						
NA-009	WILSHIRE/ALVARADO - WATER RELOCATION	4/16/85	73		73						
	ART-IN-TRANSIT	6/1/88	971					971			
A-610	TRACKWORK PROCUREMENT/INSTALLATION	11/19/85	10568		10568						
A-612	CONTACT RAIL PROCUREMENT	3/19/86	1829		1829						
A-615	PROTECTIVE COVERBOARD PROCUREMENT	3/19/86	1056		1056						
A-620	AUTOMATIC TRAIN CONTROL	7/9/86	23400			23400					
A-630	TRACTION POWER PROCUREMENT	9/15/86	6285			6285					
A-631	TRACTION POWER INSTALLATION	7/10/87	6110					6110			
A-640	COMMUNICATIONS PROCURE & INSTALL	8/7/86	18270				18270				
A-650	PASSENGER VEHICLES PROCUREMENT	6/4/86	53418		53418						
A-660	FARE COLLECTION PROCURE & INSTALL	5/7/87	10238				10238				
A-671	LOCUDOTIVE PROCUREMENT	2/17/88	769					769			
A-672	FLAT CARS PROCUREMENT	2/17/88	58					58			
A-675	CRANE PROCUREMENT (FDP FLAT CARS)	2/17/88	26					26			
A-680	OPERATIONAL GRAPHICS	10/30/88	133						133		
A-710	ESCALATORS PROCURE & INSTALL	7/25/86	12132				12132				
A-720	ELEVATORS PROCURE & INSTALL	7/25/86	1362				1362				
A-730	SHOP EQUIPMENT (FIXED) PROCURE & INSTALL	5/28/86	27			27					
A-735	SHOP EQUIPMENT (FREE STANDING/PORABLE)	3/21/86	315			315					
A-740	FANS/DAMPERS PROCUREMENT	8/20/85	7640		7640						
A-745	ATR HANDLING EQUIPMENT (TPSS) PROCURE	8/5/86	220				220				
A-760	SIGNS & GRAPHICS PROCUREMENT	12/20/88	1762						1762		
A-770	SHOP EQUIPMENT - RUBBER TIRED VEHICLES	11/17/87	394					394			
A-775	MOBILE EMERGENCY & MAINTENANCE EQUIPMENT	11/17/87	380					380			
A-780	FURNITURE PROCUREMENT	11/17/87	198					198			
A-790	FIRST STORES & CONSUMABLES PROCUREMENT	3/25/86	111			111					

SOUTHERN CALIFORNIA RAPID TRANSIT DISTRICT
METRO RAIL PROJECT MDS-1

REV. 0
FEB 14, 85

OBLIGATIONS PLAN/FORECAST
(1st QTR. 1985 FUNDING)

CONTRACT #	DATE	ESCALATED COSTS OBLIG. TO		FY'85	FY'86	FY'87	FY'88	FY'89	FY'90	FY'91
		(000)	DATE							
GENERAL CONSULTANT		130840	35400	45700	24334	4226	6055	6221	4855	2078
CONSTRUCTION MANAGER		71536		5518	10833	12466	14544	13191	11440	3561
RIGHT OF WAY		87452	172	48527	38753					
AGENCY		102933	20412	15200	13011	13923	13034	11947	10655	4751
OWNER CONTROLLED INSURANCE		51256		14540	19150	8410	6744	2404		
PRELIMINARY ENGINEERING		38843	38843							
Project Obligations (w/o contingencies)		1152956	94827	172415	576508	129527	76535	64469	28286	10389

BASIS - ASSUMES REVENUE SERVICE DATE OF - MAY 1991
ASSUMES FUNDING AVAILABILITY OF - 1st QUARTER 1985

METRO RAIL PROJECT
AVAILABLE FUNDS CASHFLOW - MOS-1
(\$000)

1 2 3 4
(1 - 3)

5 6
(4 - 5)

C A S H F L O W

ACTUAL OBLIG. THRU 3/85 ACTUAL EXPENDED THRU 3/85 REMAINING BUDGET THRU 3/85
 ----- FY 1985 -----
 ----- FY 1986 -----
 TOTAL CASHFLOW FROM 1/85 TO 2/86 BAL.

APE	DESCRIPTION	APPROVED BUDGET	THRU 3/85	THRU 3/85	THRU 3/85	CALENDAR 1985												CALENDAR 1986		TOTAL CASHFLOW FROM 1/85 TO 2/86 BAL.			
						JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEPT	OCT	NOV	DEC	JAN	FEB				
02110	R.O.W (NOTE 1)	60863	6279	6279	54584	PLAN ACTUAL F'CAST	0 768 0	0 16 0	0 5276 0	0 0 0	7130 9675 687	669 669 669	5272 5272 5272	5272 5272 5272	5272 5272 5272	5272 5272 5272	49793	10682					
02103	PROFESSIONAL SERVICES FOR ENG./DESIGN	141975	136324	117087	24888	PLAN ACTUAL F'CAST	5631 4183 0	4831 4707 0	5320 5664 0	5074 0 0	4841 0 0	4619 0 0	4422 0 0	3971 0 0	3571 0 0	3216 0 0	2901 0 0	2621 0 0	1988 0 0	1670 0 0	54676	-17734	
02111	PROFESSIONAL SERVICES FOR CONSTR. MGMT	9000	6590	2531	6469	PLAN ACTUAL F'CAST	610 179 0	532 154 0	299 468 0	412 0 0	447 0 0	445 0 0	455 0 0	440 0 0	600 0 0	700 0 0	850 0 0	940 0 0	950 0 0	955 0 0	8625	-1355	
02117	RAILROAD RELOCATION	17000	12870	0	17000	PLAN ACTUAL F'CAST	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0	230 0 0	1472 0 0	1680 0 0	1872 0 0	2000 0 0	1952 0 0	9206	7794		
02104	FORCE ACCOUNT	19416	15049	15049	4367	ACTUAL	436	1678	<436>														
02106	GEN. & ADM.	825	802	802	23	ACTUAL	96	80	73														
02105	OTHER SUPPORT SERVICES	3350	3477	3477	<127>	ACTUAL	59	93	122														
02101	SUPPORT AUTOS	70	70	22	48	ACTUAL	0	0	0														
02102	SUPPORT EQUIPMENT	2290	1400	1185	1105	ACTUAL	<39>	6	3														
02108	MIS EQUIPMENT	1000	823	719	281	ACTUAL	719	0	0														
02109	COMMUNICATION EQUIPMENT	100	0	0	100	ACTUAL	0	0	0														
	TOTAL AGENCY	27051	21621	21254	5797	PLAN ACTUAL F'CAST	800 1271 0	800 1857 0	800 <238>	800	800	800	800	800	800	800	800	800	800	800	800	11200	-2513

METRO RAIL PROJECT
AVAILABLE FUNDS CASHFLOW - MOS-1
(\$000)

1 2 3 4
(1 - 3)

5 6
(4 - 5)

C A S H F L O W

AFE	DESCRIPTION	APPROVED BUDGET	ACTUAL OBLIG. THRU 3/85	ACTUAL EXPENDED THRU 3/85	REMAINING BUDGET THRU 3/85	FY 1985												FY 1986				TOTAL CASHFLOW FROM 1/85 FEB TO 2/86	BAL.
						CALENDAR 1985												JAN	FEB	SEPT	OCT		
						JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEPT	OCT	NOV	DEC	JAN	FEB				
04501	YARD/SHOPS ACQUISITION	31000	29000	13950	17050	ACTUAL	0	13620	161														
04502	YARD/SHOPS ACQUISITION	1630	1630	1624	6	ACTUAL	0	1624	0														
	TOTAL YARD & SHOPS ACQUISITION	32630	30630	15574	17056	PLAN ACTUAL F'CAST	0 0	15700 15244	0 161	0 0	0 0	7268 736	1008 1018	1018 0	0 0	0 0	0 0	0 0	0 0	0 0	25730	6900	
02112	OWNER- CONTROLLED INSURANCE	4000	894	192	3808	PLAN ACTUAL F'CAST	0 0	0 0	0 92	0 0	0 0	90 119	173 190	190 348	348 408	408 346	346 429	429 1082	1082 3185	3185	715		
	PROJECT SUBTOTAL (WITHOUT CONTINGENCIES)	292519	215208	162917	129602	PLAN ACTUAL F'CAST	7041 6401	21863 21978	6419 11423	6286	13218	22897	7209	7061	11681	11808	11911	11851	11439	11731	162415	4489	

NOTES: 1) THIS CASH FLOW REPRESENTS ONLY MOS-1 COSTS. ADVANCED LAND ACQUISITION, REVENUE FINANCING, AND CONTINGENCIES ARE NOT INCLUDED.
2) YARD & SHOPS PARCELS ARE OBLIGATED AGAINST CTC/LACTC ADVANCED LAND ACQUISITION FOR YARD & SHOPS (\$ 32.6 MILLION - AFE 04501 & 04502)

BASIS:

- A) CASHFLOW REFLECTS THE DISTRICT'S ACTUAL PAYMENT HISTORY WHICH APPEARS TO BE APPROXIMATELY 2 MONTHS AFTER THE EXPENSE HAS ACCRUED.
- B) THIS CASHFLOW ASSUMES THAT THE GC & CM WILL CONTINUE WORKING AFTER THEIR CURRENT AWP'S HAVE EXPIRED. WE CANNOT OBLIGATE ANOTHER FULL YEAR AWP DUE TO FUNDING LIMITATIONS.
- C) OCIP IS CURRENTLY SHOWN AS A % OF THE PLANNED CONSTRUCTION CASHFLOW.

METRO RAIL PROJECT
AVAILABLE FUNDS CASHFLOW - MOS-1
(\$000)

1 2 3 4
(1 - 3)

5 6
(4 - 5)

C A S H F L O W

AFE	DESCRIPTION	APPROVED BUDGET	ACTUAL OBLIG. THRU 3/85	ACTUAL EXPENDED THRU 3/85	REMAINING BUDGET THRU 3/85	C A S H F L O W														TOTAL CASHFLOW FROM 1/85 TO 2/86 BAL.			
						FY 1 9 8 5						FY 1 9 8 6											
						CALENDAR 1 9 8 5		CALENDAR 1 9 8 6				JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEPT	OCT	NOV	DEC
02107	CONTIN- GENCIES	3537	0	0	3537	PLAN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3537	0
						ACTUAL	0	0															0
						F'CAST																	
02116	REVENUE FINANCING	2471			2471	PLAN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2089	0
						ACTUAL	0	0															0
						F'CAST																	
PROJECT TOTAL INCLUDING CONTINGENCIES		298527	215208	162917	130668	PLAN	7041	21863	6419	6286	13218	22897	7209	7061	11681	11808	11911	11851	11439	11731	162415	10115	
						ACTUAL	6401	21978	11423														
						F'CAST																	

NOTE: THIS CASH FLOW REPRESENTS ONLY MOS-1 COSTS. ADVANCED LAND ACQUISITION, EVENUE FINANCING, AND CONTINGENCIES ARE NOT INCLUDED.

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SCRIPPS METRO RAIL PROJECT

DETAILED FUNDING BREAKDOWN

Funding Increment	FUNDING SOURCE					
	UMTA Section 3	UMTA Section 4	State	LACTC	District (TDA)	TOTAL
Preliminary Engineering Phase I (6/80) CA-03-0130	\$ 12,000,000	\$ -0-	\$ 2,816,250	\$ 750,000	\$ -0-	\$ 15,566,250
Preliminary Engineering Phase II (5/82) CA-03-0130-01	\$ 9,800,000	\$ -0-	\$ 1,683,250	\$ 612,500	\$ -0-	\$ 12,095,750
Preliminary Engineering Phase III (7/82) CA-03-0130-02	\$ 9,274,400	\$ -0-	\$ 1,326,950	\$ 579,650	\$ -0-	\$ 11,181,000
SUB-TOTAL Preliminary Engineering	\$ 31,074,400	\$ -0-	\$ 5,826,450	\$ 1,942,150	\$ -0-	\$ 38,843,000
Continued Preliminary Engineering, Phase I (9/82) CA-03-0130-03	\$ 15,000,000	\$ -0-	\$ 2,812,500	\$ 937,500	\$ -0-	\$ 18,750,000
Continued Preliminary Engineering, Phase II (4/83) CA-03-0130-04	\$ 25,000,000	\$ -0-	\$ 5,503,000	\$ 2,830,000	\$ -0-	\$ 33,333,000 (1)
SUB-TOTAL Continued Preliminary Engineering	\$ 40,000,000	\$ -0-	\$ 8,315,500	\$ 3,767,500	\$ -0-	\$ 52,083,000
Acquisition of Santa Fe Rail Yard (9/83) X-7619	\$ -0-	\$ -0-	\$ 31,000,000	\$ 1,630,000	\$ -0-	\$ 32,630,000
Advanced Land Acquisition (9/83) CA-90-0022	\$ -0-	\$ 14,760,000	\$ -0-	\$ -0-	\$ 3,690,000	\$ 18,450,000
Pre-Construction (5/84) CA-03-0130-06	\$ 105,400,000	\$ -0-	\$ 24,700,000	\$ 38,000,000	\$ -0-	\$ 168,100,000 (2)
Busway Modification (7/84)	\$ -0-	\$ -0-	\$ -0-	\$ 2,500,000	\$ -0-	\$ 2,500,000
FY84 Section 9 Grant (8/84) CA-90-X059 CA-90-0080	\$ -0-	\$ 25,483,720	\$ -0-	\$ -0-	\$ -0-	\$ 25,483,720 (3)
TOTAL, ALL GRANT ALLOCATIONS	\$ 176,474,400	\$ 40,243,720	\$ 69,841,950	\$ 47,839,650	\$ 3,690,000	\$ 338,089,720

(1) Share ratio changes from 80% Federal/20% State and Local to 75% Federal/25% State And Local.

(2) The additional Local share of \$1.9 million is reflected under the State Yard and Shops grant. That will bring the total for this grant to \$170 million.

(3) The Local share of this grant (\$6,370,930) is reflected under the State Yard and Shops grant. That will bring the total for this grant to \$31,854,650.

PC-2.67
4/11/85

RTD METRO RAIL PROJECT
OPEN PROFESSIONAL SERVICES CONTRACTS

3/31/85

<u>AUDIT #</u>	<u>CONTRACT</u>	<u>\$</u> <u>BUDGET</u>
I. Transit Facilities		
3509	Westec	15,000
2284-5	Lindvall Richter (Geotech. II)	480,900
3138	City of Los Angeles (Master Agreement)	725,000
3172	Pacific Bell	156,000
3301	CALTRANS	2,784,213
3237	Western Union Telegraph	60,000
3351	John Gordon	20,000
3320	Julia Brown	20,000
3323	Aian Sieorty	20,000
3464-A	Dept. of Water & Power - Water Section	350,000
3173-A	Dept. of Water & Power - Power Section	365,000
2160-6	Barton Aschman	161,700
2611-3	County of Los Angeles (Staff Asst.)	229,300
2274	Carl Englund	14,153
3212	W.H. Patterson	7,000
3520	Southern California Gas Co.	45,000
3480	O'Brien & Kreitzberg	24,900
3535	Flood Control District	<u>53,000</u>
	Sub-Total	\$ 5,531,166
II. System Design & Analysis		
3394	MIDCOM	10,000
3282	SRI International	19,985
3090-1	Cons. Fire Prot. District	103,286
3136-1	Booz-Allen & Hamilton	1,499,031
3371	COMMUNICOM	7,500
2218	Commission de Transport	5,000
2218	Walter Woods	<u>1,020</u>
	Sub-Total	\$ 1,645,822

RTD METRO RAIL PROJECT
OPEN PROFESSIONAL SERVICES CONTRACTS
(CONT.)

3/31/85

<u>AUDIT #</u>	<u>CONTRACT</u>	<u>\$</u> <u>BUDGET</u>
III. Planning		
3010-1	Community Redevelopment Agency	542,000
3137	City of Los Angeles (Station Dev.)	573,000
3254-2	Schimpeler - Corradino	927,213
2900-2	Schimpeler - Corradino	151,000
3328	CMB Communications	<u>2,500</u>
	Sub-Total	\$ 2,195,713
IV. Real Estate		
A. Yard & Shops Acquisition		
3032	Flavell & Assoc.	50,000
3033	Lea Associates	50,000
3102-1	Robert Swanson	22,500
3484	Robert Swanson	<u>2,750</u>
	Sub-Total	\$ 125,250
B. Other Real Estate		
3641	Marshall & Stevens	9,250
3116	Chicago Title Insurance	50,000
3175	TICOR Title Insurance	75,000
3462	James Himes	8,750
3209	Arthur Anderson	1,550
3463	R.P. Laurain	9,900
3189-2	Joseph Gary	10,026
3523	Thomas Scalora	6,000
3241	Crockett	5,900
3242	Industrial Appraisal	7,925
3461	Leon Beliansky	7,950
3485	Woeber	4,050
3495	Jack Jue	3,000
3522	Carl Lau	1,000
3638	Lear Beliansky	6,000
3619	Donahue & Co.	<u>20,000</u>
	Sub-Total	\$ 226,301

RTD METRO RAIL PROJECT
 OPEN PEROFESIONAL SERVICES CONTRACTS
 (CONT.)

3/31/85

<u>AUDIT #</u>	<u>CONTRACT</u>	<u>BUDGET</u>
V. Legal		
2910-4	NBMBW & M	115,000
2943	O'Melveny & Myers	<u>100,000</u>
	Sub-Total	\$ 215,000
VI. Misc. Contracts		
3065	David Ashley	7,000
3030	Dillon Read & Co.	24,900
2499	Barton-Aschman	4,121
2430	Bureau de Transit Metro	2,187
2940	Steve Mertz (U.S.C.)	5,000
2276	U.S.C.	4,320
3506	California Newspaper Service Bureau	<u>105,000</u>
	Sub-Total	\$ 152,528
VII. Owner Controlled Insurance		
3504	James/Kadowski/Ortiz/Rideau	894,154
VIII. General Consultant		
2967	MRTC	101,145,804
	Sub-Total	\$ 101,145,804
VIII. Construction Management		
3369	PDCD	6,589,849
	Sub-Total	\$ 6,589,849
TOTAL OPEN PROFESSIONAL SERVICES CONTRACTS		\$ 118,721,587

SECTION II: CONTRACT EVALUATIONS

A. COST

EXPLANATION OF TERMS

Cost Performance Index (C.P.I.)	- Used to indicate the actual cost of each planned dollar of work accomplished. = $\frac{\text{Earned Costs}}{\text{Expenditures}}$
Cost Variance (C.V.)	- The difference between the actual dollars spent and the actual dollars earned. = Actual \$ Spent - Earned \$
Current Contract Cost	- The dollar value on which contractual agreement has been reached.
Expended	- The entry into official RTD accounting ledgers of the use of resources.
Forecast at Completion	- An estimate and prediction of the total cost of the contract.
Independent Estimate at Completion (I.E.A.C.)	- A calculated EAC based on the current rate of cost performance. = $\frac{\text{Forecast at Completion}}{\text{C.P.I.}}$
Negotiated Contract Changes	- The cumulative cost applicable to definitized contract changes which have occurred since the beginning of the contract.
Original Contract Cost	- The dollar value negotiated in the original contract.
Pending Changes	- The estimated cost for contract changes that have yet to be negotiated or approved.
Percent Complete	- A comparison of the completion status to the current projection of total work.
Productivity	- A relative measure of labor efficiency compared to an established base. = $\frac{\% \text{ complete} \times \text{Total MH forecast}}{\text{MH's spent}}$

To Complete Performance Index

(T.C.P.I.) - Basically a comparison of the work remaining to the amount of money remaining. The results of this formula indicate the cost efficiency the contractor must perform to meet the Forecast at Completion.

$$= \frac{\text{Forecast at Completion} - \text{Earned Costs}}{\text{Forecast at Completion} - \text{Actual \$ Spent}}$$

Variance

- Any actual or potential deviation from a budget or plan.

OVERALL COST ASSESSMENT

MARCH 1985

This month's Cost/Schedule Status Report analyzes and compares reported actuals against the latest MRTC forecasts as shown in the monthly progress report. For details concerning individual contracts, refer to the Section Designer Evaluation Summary in this report.

Some concerns with this month's MRTC Progress report are as follows:

- o Stop work orders were issued to some of the MOS-1 Facilities Design Consultants (Contracts A100, A135, A165), but the MRTC report does not address the total contract cost of completion (i.e., the scope of work being completed by the MRTC), nor the progress for the month of March.
- o The MRTC In-House Facilities Design contracts once again reflects only the current value of the AWP and does not indicate a forecast cost for completion. Therefore we were unable to perform evaluations on these contracts due to the lack of complete information.

METRO RAIL PROJECT
SECTION DESIGN EVALUATION SUMMARY
MARCH 1985

UNIT NO.	DESCRIPTION	TOTAL % COMPLETE*		CURRENT INCR- MENTAL PROGRESS	PRODUCTIVITY BASIS ON		ORIGINAL/INC. I NEGOTIATED CONTRACT AMOUNT	FORECAST AT COMPLETION*		TO COMPLETE AVERAGE EFFICIENCY **
		FORECAST	ACTUAL		MHRS	\$\$		MRTC	USD PROJECTED	
MOS-1 CONTRACTS:										
A100	YARD AND SHOPS	N/A	N/A	N/A	N/A	N/A	\$ 4,080,878	\$ N/A	\$ N/A	N/A
A135	UNION STATION	N/A	97%	1%	97%	97%	2,897,000	N/A	N/A	N/A
A140	CIVIC CNTR/5TH & HILL/LINE	84%	84%	8%	121%	121%	6,203,707	6,875,800	5,681,800	53%
A165	7TH & FLOWER	N/A	98%	1%	98%	98%	2,400,583	N/A	N/A	N/A
A170	WILSHIRE/ALVARADO + LINE	N/A	N/A	N/A	N/A	N/A	3,119,430	4,800,000	N/A	N/A
SUBTOTAL MOS-1 CONTRACTS:							\$ 18,701,598	\$	\$	
INCREMENT 1 CONTRACTS:										
A195	WILSHIRE/VERMONT		100%				\$ 2,203,000	\$ 2,193,000	\$ 2,193,000	COMPLETE
A220	WILSHIRE/NORMANDE & WILSHIRE/WESTERN + LINE	86%	87%	7%	104%	104%	3,878,000	3,878,000	3,728,800	80%
A240	WILSHIRE/CRENSHAW	96%	93%	1%	98%	98%	2,273,000	2,112,000	2,155,100	148%
A245	WILSHIRE/LA BREA	95%	95%	3%	98%	99%	1,740,000	1,740,000	1,757,600	159%
A250	WILSHIRE/FAIRFAX + LINE	88%	88%	6%	113%	113%	3,164,864	3,510,000	3,106,200	56%
A275	FAIRFAX/BEVERLY	99%	99%	1%	100%	100%	2,299,000	2,299,000	2,299,000	100%
A310	FAIRFAX/SANTA MONICA & LA BREA/SUNSET + LINE	76%	81%	3%	102%	102%	2,935,000	2,935,000	2,877,500	94%
A350	HOLLYWOOD/CAHUENGA	93%	88%	9%	97%	97%	1,755,000	1,670,000	1,722,000	134%
A410	LINE FROM HOLLYWOOD/CAHUENGA TO UNIVERSAL CITY		100%				2,313,000	2,459,000	2,459,000	COMPLETE
A415	HOLLYWOOD BOWL		100%				810,000	810,000	810,000	COMPLETE
A425	UNIVERSAL CITY	N/A	N/A	N/A	N/A	N/A	1,705,000	1,688,000	N/A	N/A
A430	LINE FROM UNIVERSAL CITY TO NORTH HOLLYWOOD	97%	97%	1%	100%	100%	1,518,000	1,518,000	1,518,000	109%
A445	NORTH HOLLYWOOD	N/A	95%	N/A	108%	108%	1,528,000	1,495,000	1,385,000	40%
SUBTOTAL INCREMENT 1 CONTRACTS:							\$ 28,121,864	\$ 28,307,000	\$ 26,011,200	
SUBTOTAL MOS-1 CONTRACTS:							\$ 18,701,598	\$	\$	
GRAND TOTAL:							\$ 46,823,462	\$	\$	

* FORECASTS FOR SOME CONTRACTS ARE NOT AVAILABLE DUE TO LACK OF INFORMATION IN THE MRTC PROGRESS REPORT

** FOR CONTRACTS TO BE COMPLETED AT MRTC'S FORECAST

NOTE: INCREMENT 1 DATA HAS BEEN CONVERTED TO SHOW PROGRESS AS A PERCENTAGE OF ONLY THE INCREMENT 1 BASIS - NOT AS A PERCENTAGE OF THE TOTAL CONTRACT AS DEPICTED IN THE MRTC PROGRESS REPORT.

METRO RAIL PROJECT
SYSTEMS DESIGN EVALUATION SUMMARY
MARCH 1985

UNIT NO.	DESCRIPTION	TOTAL % COMPLETE		CURRENT INCREMENTAL PROGRESS	PRODUCTIVITY BASED ON		MRTC PLAN	FORECAST AT COMPLETION*		TO COMPLETE AVERAGE EFFICIENCY**
		FORECAST	ACTUAL		MIHRS	SS		MRTC	USD PROJECTED	
SYSTEMS CONTRACTS:										
A612										
A615										
A630	TRACTION POWER PROCUREMENT	98%	97%	2%	104%	104%	\$ 919,000	\$ 942,000	\$ 905,800	46%
A620	AUTOMATIC TRAIN CONTROL	73%	72%	4%	101%	101%	849,000	888,000	879,200	98%
A631	TRACTION POWER INSTALLATION	40%	40%	5%	110%	111%	262,000	526,000	473,900	94%
A640	COMMUNICATIONS	64%	64%	4%	94%	96%	1,045,000	1,362,000	1,418,750	107%
A650	PASSENGER VEHICLES	88%	86%	4%	101%	102%	764,000	898,000	880,400	92%
A660	FARE COLLECTION	69%	64%	5%	94%	95%	360,000	507,000	533,700	112%
A671										
-679	AUXILIARY VEHICLES	N/A	N/A	N/A	N/A	N/A	213,900	N/A	N/A	N/A
TOTAL SYSTEMS CONTRACTS:							\$ 4,412,900	\$ 5,123,000	\$ 5,091,750	

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* EXCLUDES PROJECTIONS FOR DESIGN UNITS A671-A679
** FOR CONTRACTS TO BE COMPLETED AT MRTC'S FORECAST

COST PERFORMANCE REPORT
SECTION DESIGNER

CONTRACT NO. : A100, Yard & Shops
 CONTRACTOR : DMJM/PBQD
 REPORT PERIOD : March 1985

(1) ORIGINAL CONTRACT COST	(2) APPROVED CONTRACT CHANGES	(3) CURRENT CONTRACT COST (1) + (2)	(4) PENDING CHANGES	(5) MRTC ESTIMATE AT COMPLETION (3) + (4)	(6) EXPENDED	(7) ESTIMATE TO COMPLETE (5) - (6)
\$ 4,080,878	\$ 1,536,694	\$ 5,617,572	\$ 1,170,367	\$ 6,787,939	\$ 6,787,939	\$ 0

CUMULATIVE TO DATE
(BASED ON MRTC MONTHLY PROGRESS REPORT DATA)

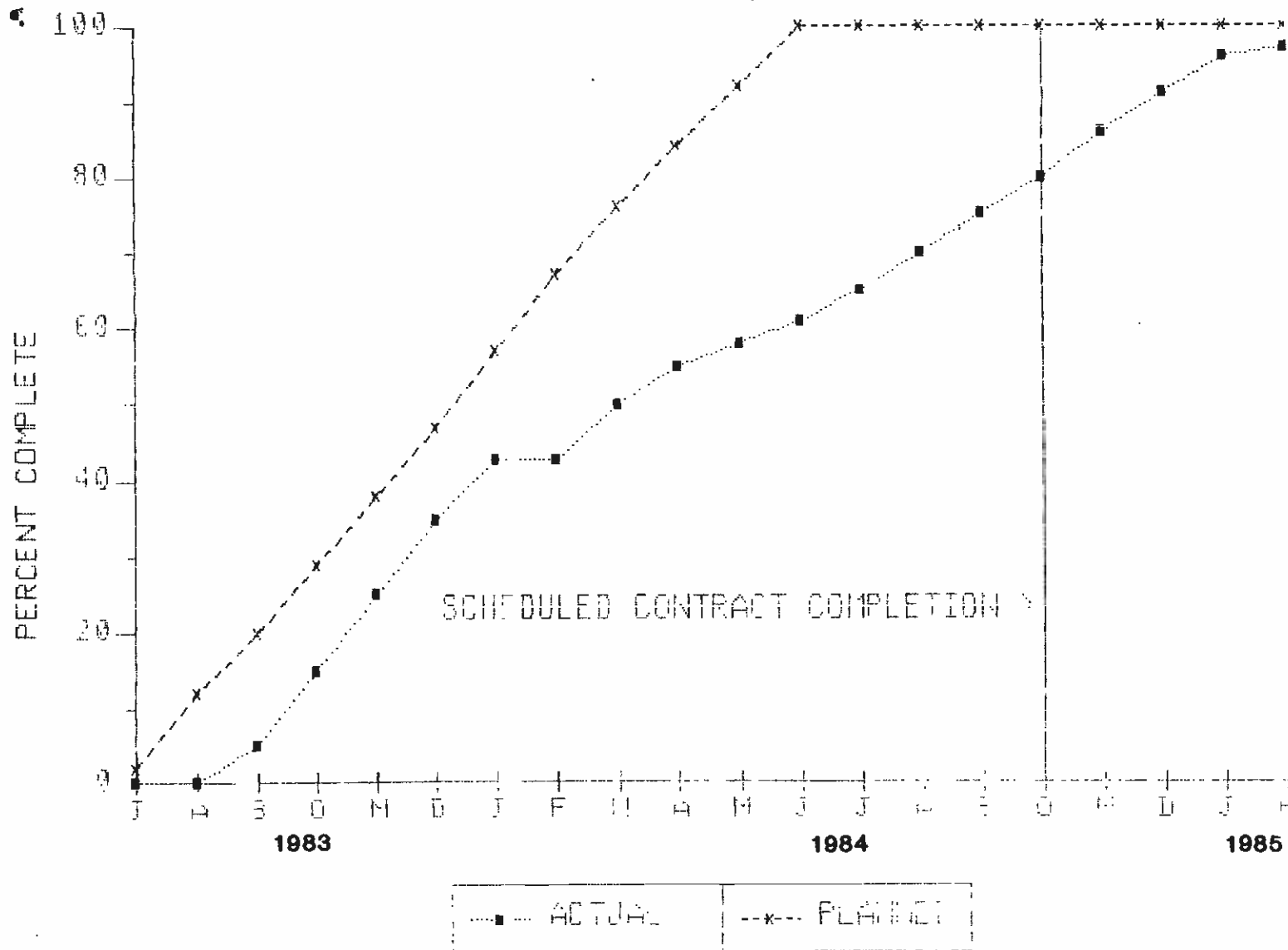
PERCENT COMPLETE			MANHOURLY PRODUCTIVITY	\$ C.P.I.	\$ COST VARIANCE	T.C.P.I	\$ RTD I.E.A.C.
PLANNED	FORECAST	ACTUAL					
100%	N/A	N/A	N/A	N/A	N/A	N/A	N/A

CONCLUSIONS AND OBSERVATIONS:

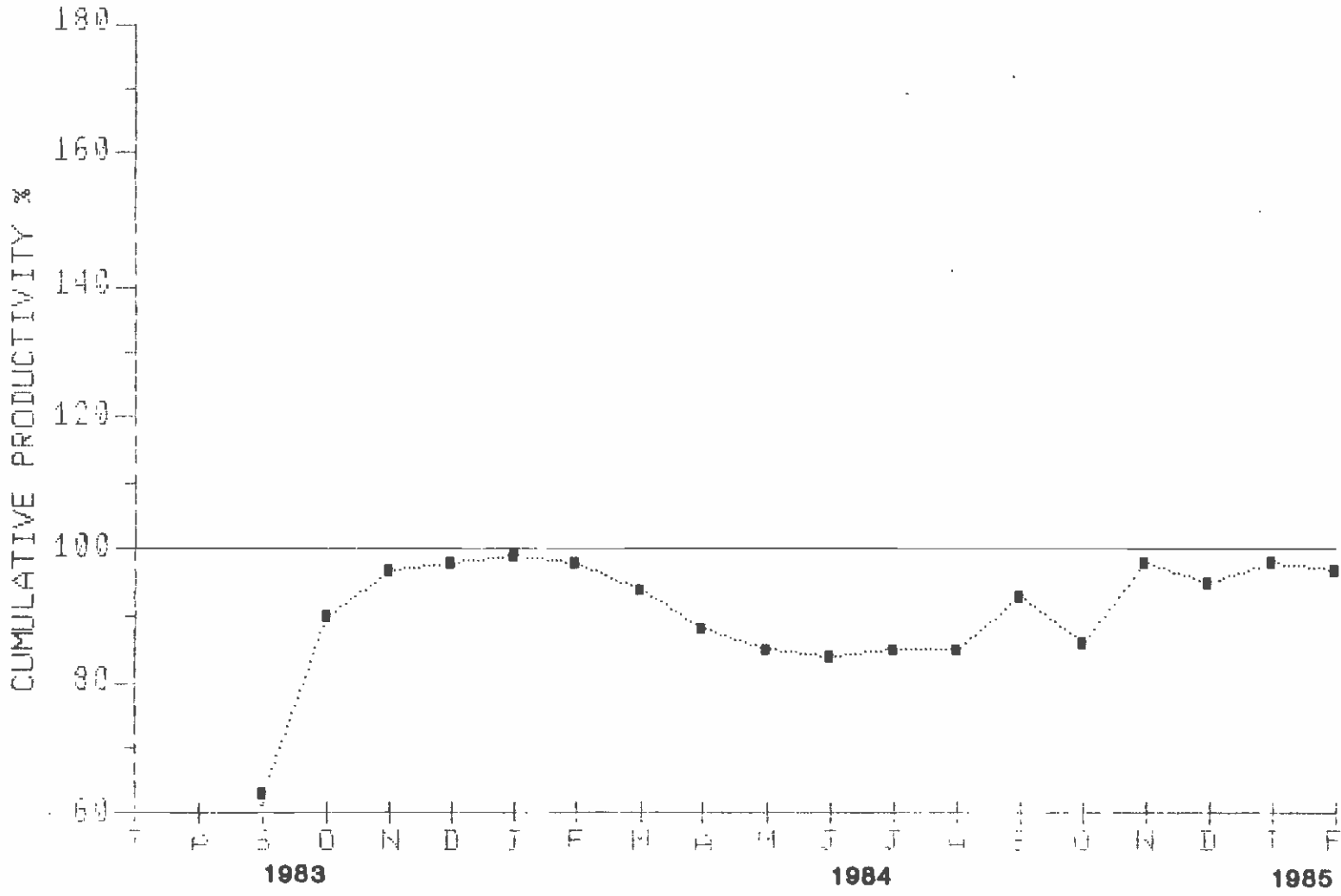
Consultant turned over all the design documents on the prearranged date of 2/28/85. The MRTC has submitted a plan to complete the contract scope and this is currently being reviewed. Although the consultant has stopped work, Amendment 7 is still outstanding (\$825,000).

The Butler Building is being used for temporary storage until July 1986. The car wash facility is being relocated into the A130 contract. The interior car cleaning platform is being added into the A112 contract. Partial demolition of the Westransco Bldg., the construction of the guardhouse, and the parking lot are to be added to contract A118.

PTD METRO RAIL PROJECT
 CONTRACT A100 - MAIN YARD AND SHOPS
 SECTION DESIGNER: INTI PBCO
 MARCH 1985

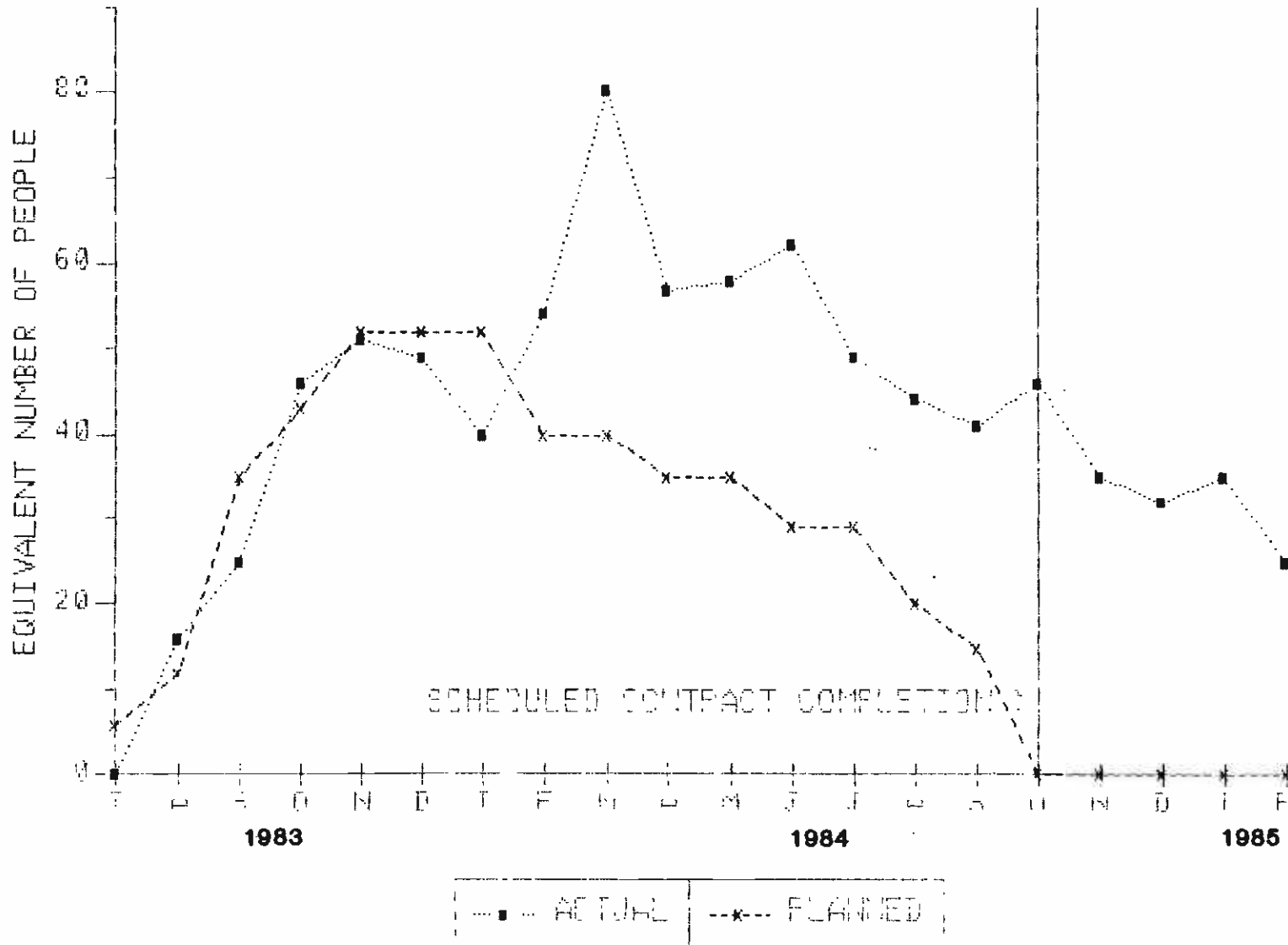


RID METRO RAIL PROJECT
 CONTRACT A100 - MAIN YARD AND SHOPS
 SECTION DESIGNER, DWTM#260
 MARCH 1985



---■--- ACTUAL

RFD METRO RAIL PROTECT
 CONTRACT A100 - MAIN YARD AND SHOPS
 SECTION DESIGNER: DMTH/PB00
 MARCH 1985



COST PERFORMANCE REPORT
SECTION DESIGNER

CONTRACT NO. : A135, Union Station
 CONTRACTOR : Harry Weese & Associates
 REPORT PERIOD : March 1985

(1) ORIGINAL CONTRACT COST	(2) APPROVED CONTRACT CHANGES	(3) CURRENT CONTRACT COST (1) + (2)	(4) PENDING CHANGES	(5) MRTC ESTIMATE AT COMPLETION (3) + (4)	(6) EXPENDED	(7) ESTIMATE TO COMPLETE (5) - (6)
\$ 2,897,000	\$ 1,054,224	\$ 3,951,224	\$ 248,505	\$ 4,199,729	\$ 4,204,000	\$ (4,271)

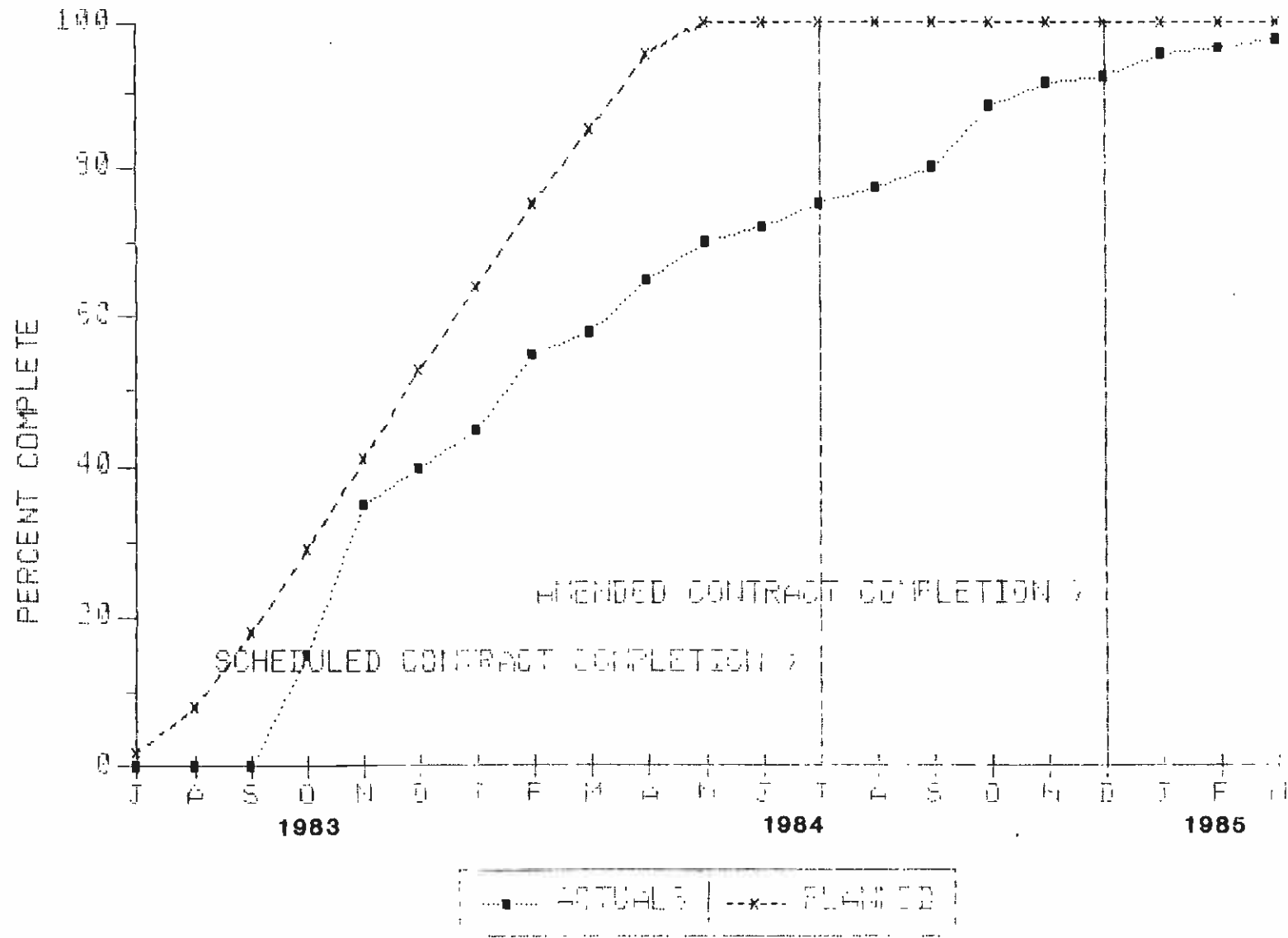
CUMULATIVE TO DATE
(BASED ON MRTC MONTHLY PROGRESS REPORT DATA)

PERCENT COMPLETE			MANHOUR PRODUCTIVITY	\$ C.P.I.	\$ COST VARIANCE	T.C.P.I.	\$ RTD I.E.A.C
PLANNED	FORECAST	ACTUAL					
100%	N/A	97%	97%	\$.97	\$ 126,120	N/A %	N/A

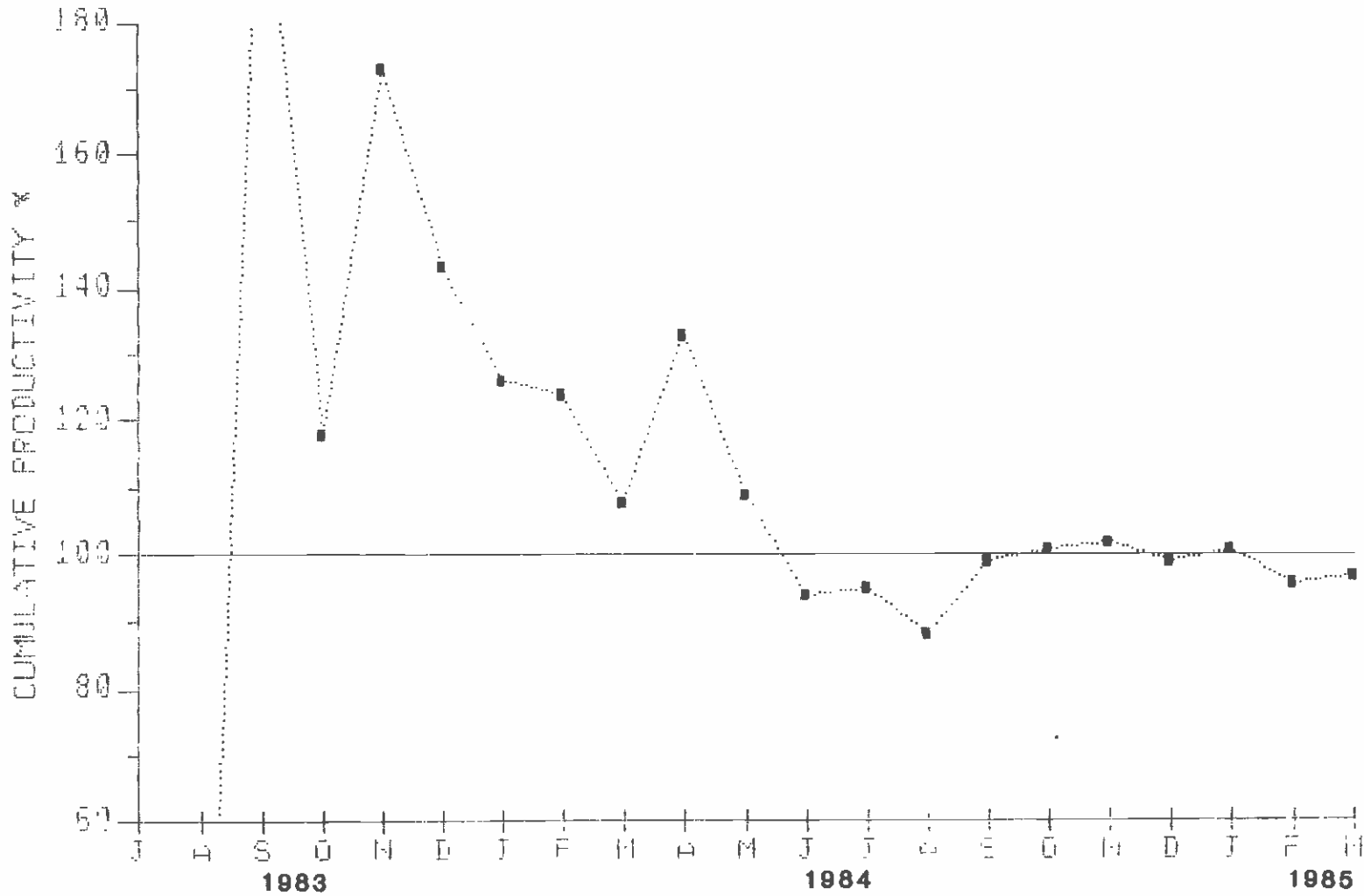
CONCLUSIONS AND OBSERVATIONS:

In March charges were received due to late checking of electrical and structural Final Submittal documents and the cost estimate. All documents were received by March 15; no more charges to A135 by the Section Designer will be allowed (with the exception of a final close-out cost). All remaining design will be completed by the MRTC.

RTD METRO RAIL PROJECT
 CONTRACT #135 - UNION STATION
 SECTION DESIGNER: HARRY WEESE & ASSOC.
 MARCH 1985

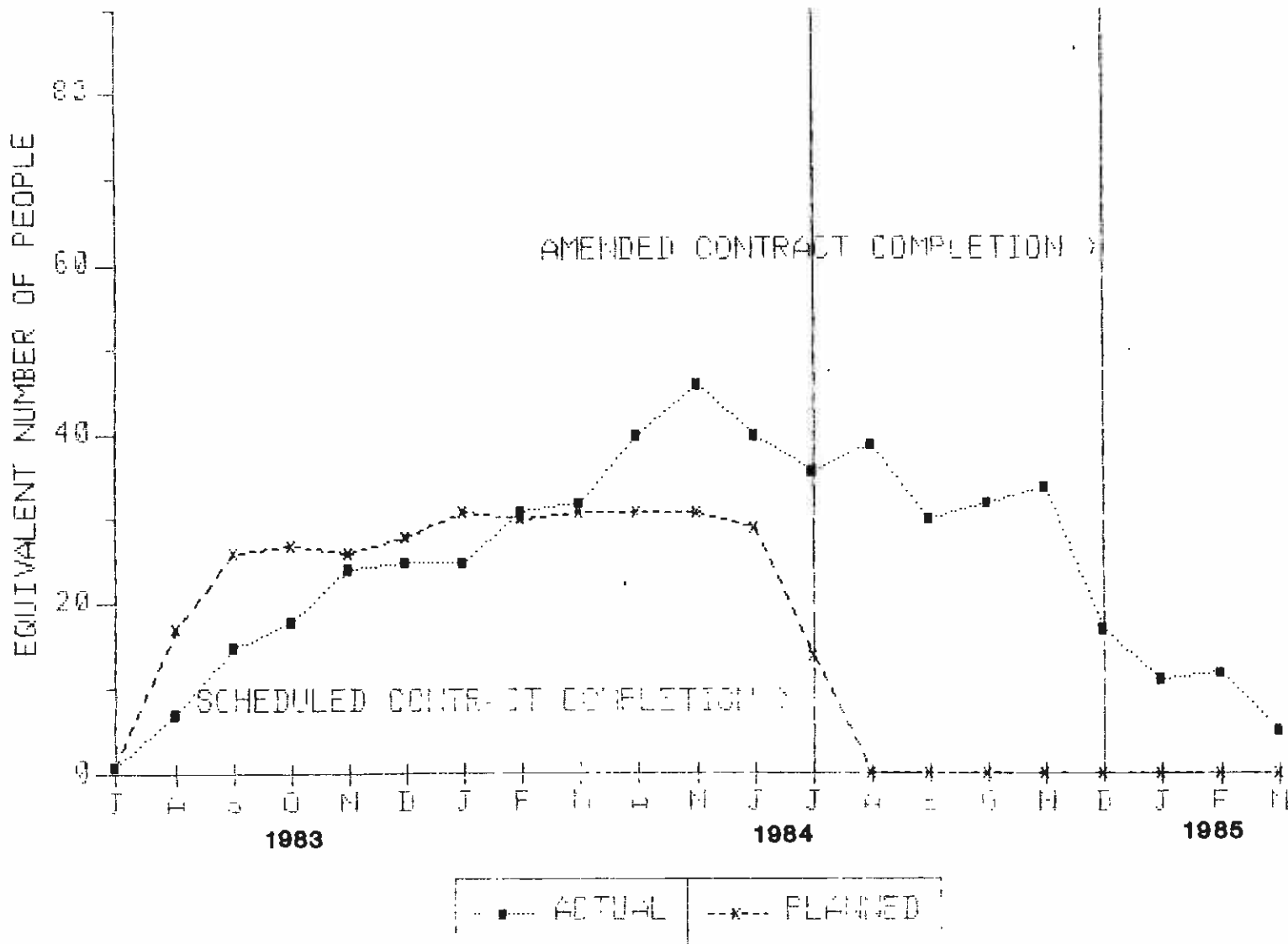


RTD METRO RAIL PROJECT
 CONTRACT A135 - UNION STATION
 SECTION DESIGNER: HARRY WEESE AND ASSOC.
 MARCH 1985



ACTUAL

FID METRO RAIL PROJECT
 CONTRACT #135 - UNION STATION
 SECTION DESIGNER: HARRY WEESE & ASSOC.
 MARCH 1985



COST PERFORMANCE REPORT
SECTION DESIGNER

CONTRACT NO. : A140, Civic Center/5th & Hill Stations + Line
 CONTRACTOR : Delon Hampton & Associates
 REPORT PERIOD : March 1985

(1) ORIGINAL CONTRACT COST	(2) APPROVED CONTRACT CHANGES	(3) CURRENT CONTRACT COST (1) + (2)	(4) PENDING CHANGES	(5) MRTC ESTIMATE AT COMPLETION (3) + (4)	(6) EXPENDED	(7) ESTIMATE TO COMPLETE (5) - (6)
\$ 6,203,707	\$ 6,732	\$ 6,210,439	\$ 665,314	\$ 6,875,753	\$ 4,786,000	\$2,089,753

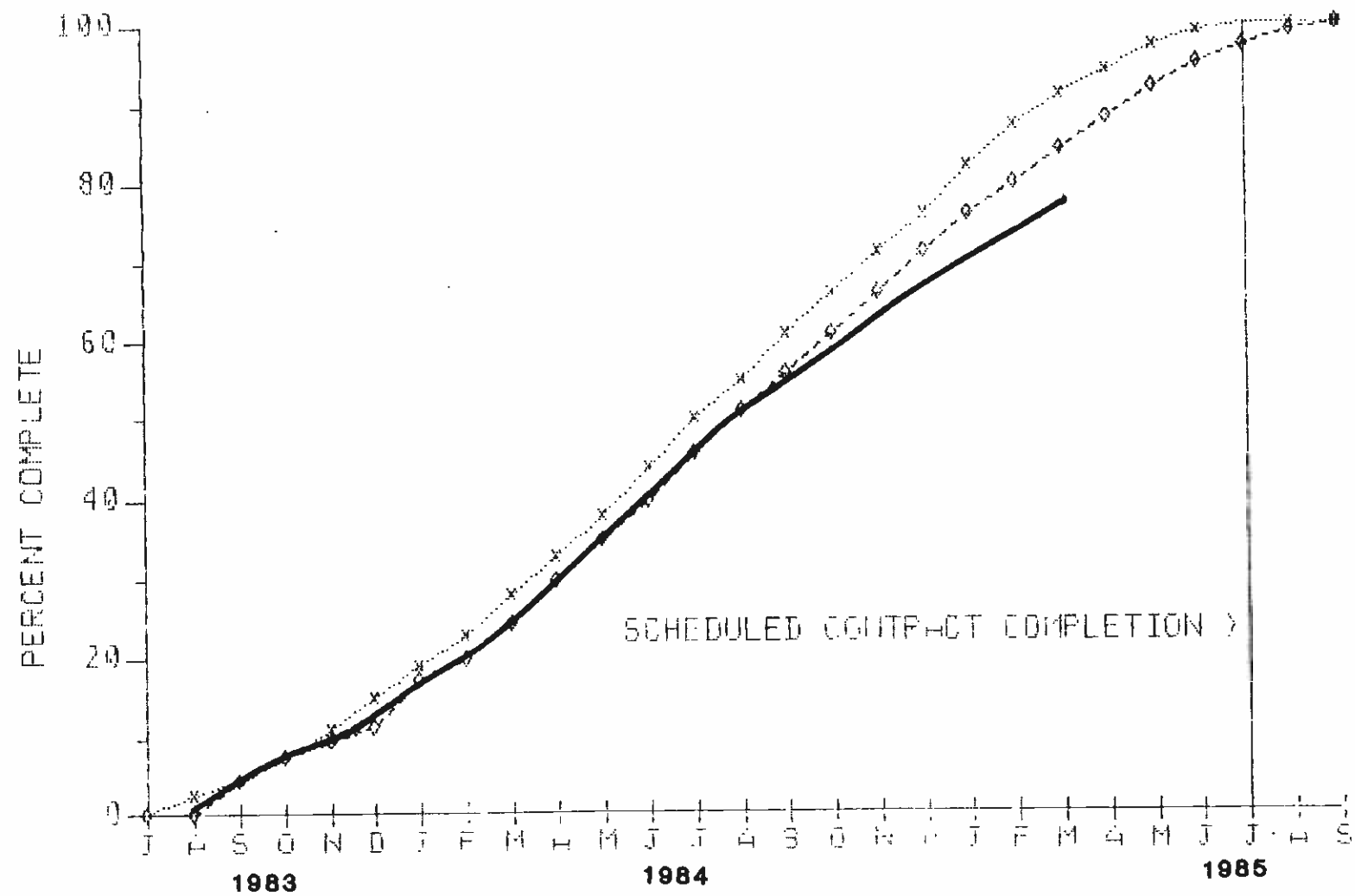
CUMULATIVE TO DATE
(BASED ON MRTC MONTHLY PROGRESS REPORT DATA)

PERCENT COMPLETE			MANHOUR PRODUCTIVITY	\$ C.P.I.	\$ COST VARIANCE	T.C.P.I.	\$ RTD I.E.A.C.
PLANNED	FORECAST	ACTUAL					
91%	84%	84%	121%	\$ 1.21	\$ (989,000)	53%	\$ 5,681,818

CONCLUSIONS AND OBSERVATIONS:

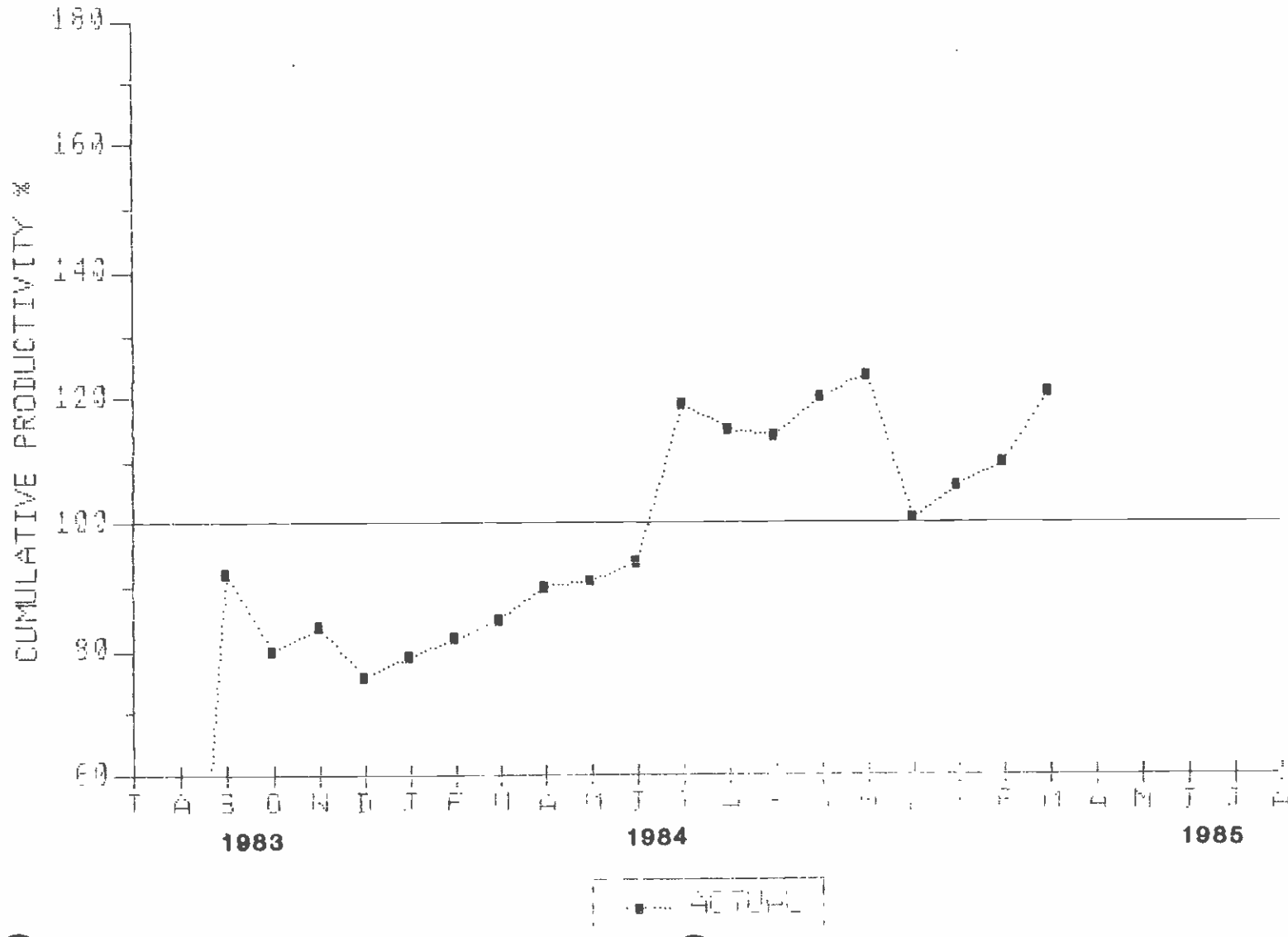
Consultant is proceeding quite satisfactorily and although MRTC is forecasting an overrun of \$672,000, the District analysis predicts an underrun of \$521,000 based on the current Cost Performance Index (C.P.I.).

PTD METRO RAIL PROJECT
 CONTRACT A140 - CIVIC CENTER/FIFTH & HILL
 DESIGNER: DELON HAMPTON & ASSOC.
 MARCH 1985

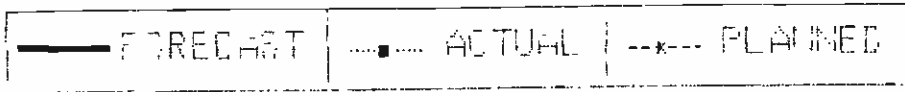
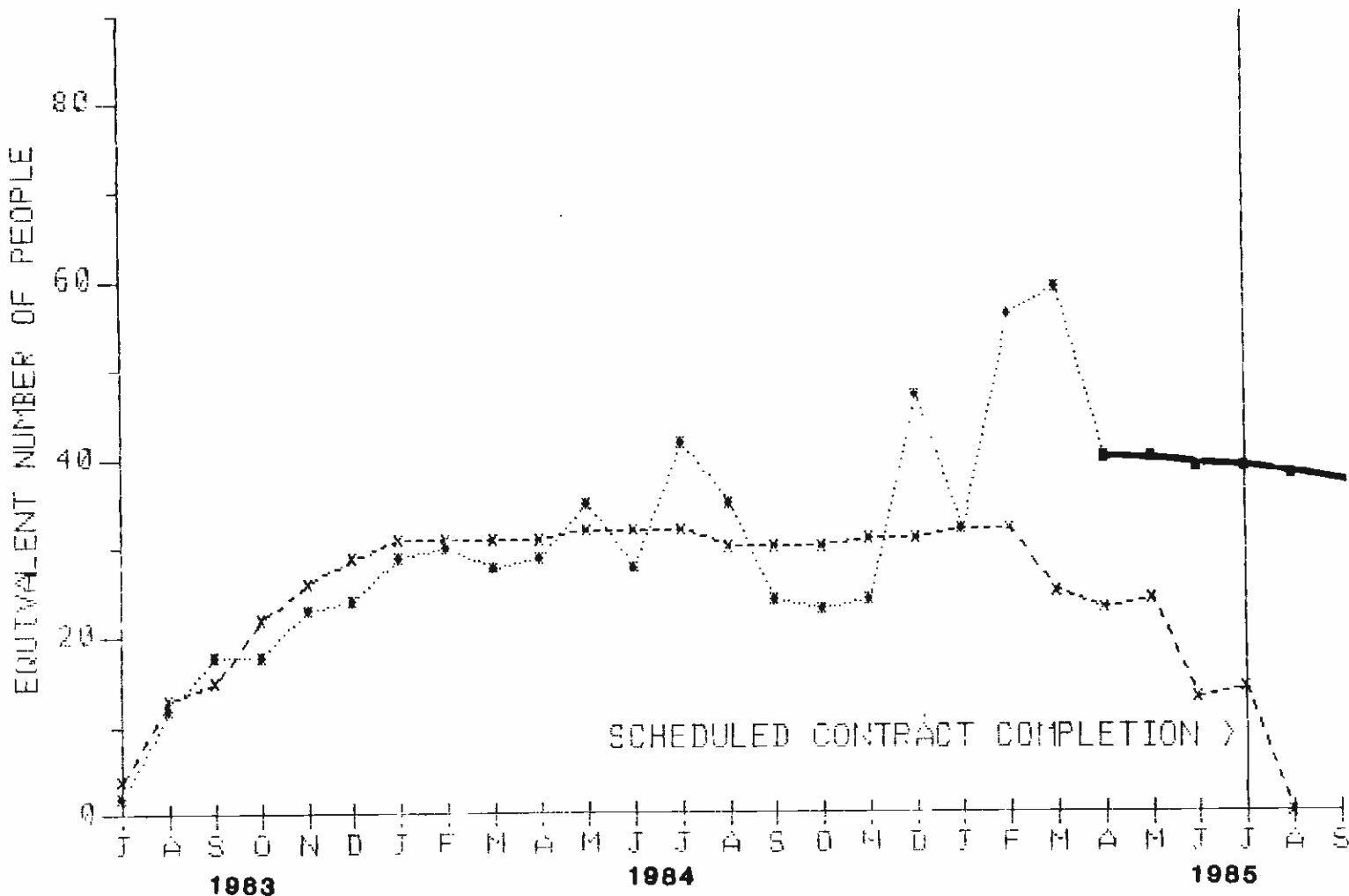


--◇-- FORECAST
— ACTUAL
-x- PLANNED

RTD METRO RAIL PROJECT
CONTRACT #140 - CIVIC CENTER/FIFTH & HILL
SECTION DESIGNER: DELON HAMPTON & ASSOC.
MARCH 1985



RTD METRO RAIL PROJECT
 CONTRACT #140 - CIVIC CENTER/FIFTH & HILL
 SECTION DESIGNER: DELOH HAMPTON & ASSOC.
 MARCH 1985



COST PERFORMANCE REPORT
SECTION DESIGNER

CONTRACT NO. : A165, 7th/Flower Station
 CONTRACTOR : Gannett Fleming/Dworsky
 REPORT PERIOD : March 1985

(1) ORIGINAL CONTRACT COST	(2) APPROVED CONTRACT CHANGES	(3) CURRENT CONTRACT COST (1) + (2)	(4) PENDING CHANGES	(5) MRTC ESTIMATE AT COMPLETION (3) + (4)	(6) EXPENDED	(7) ESTIMATE TO COMPLETE (5) - (6)
\$ 2,400,583	\$ 1,190,995	\$ 3,591,578	\$ 500,422	\$ 4,092,000	\$ 4,057,000	\$ 35,000

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CUMULATIVE TO DATE
(BASED ON MRTC MONTHLY PROGRESS REPORT DATA)

PERCENT COMPLETE			MANHOURL PRODUCTIVITY	\$ C.P.I.	\$ COST VARIANCE	T.C.P.I	\$ RTD I.E.A.C.
PLANNED	FORECAST	ACTUAL					
100%	N/A	98%	98%	\$.98	\$ 81,140	N/A	N/A

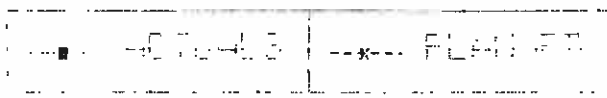
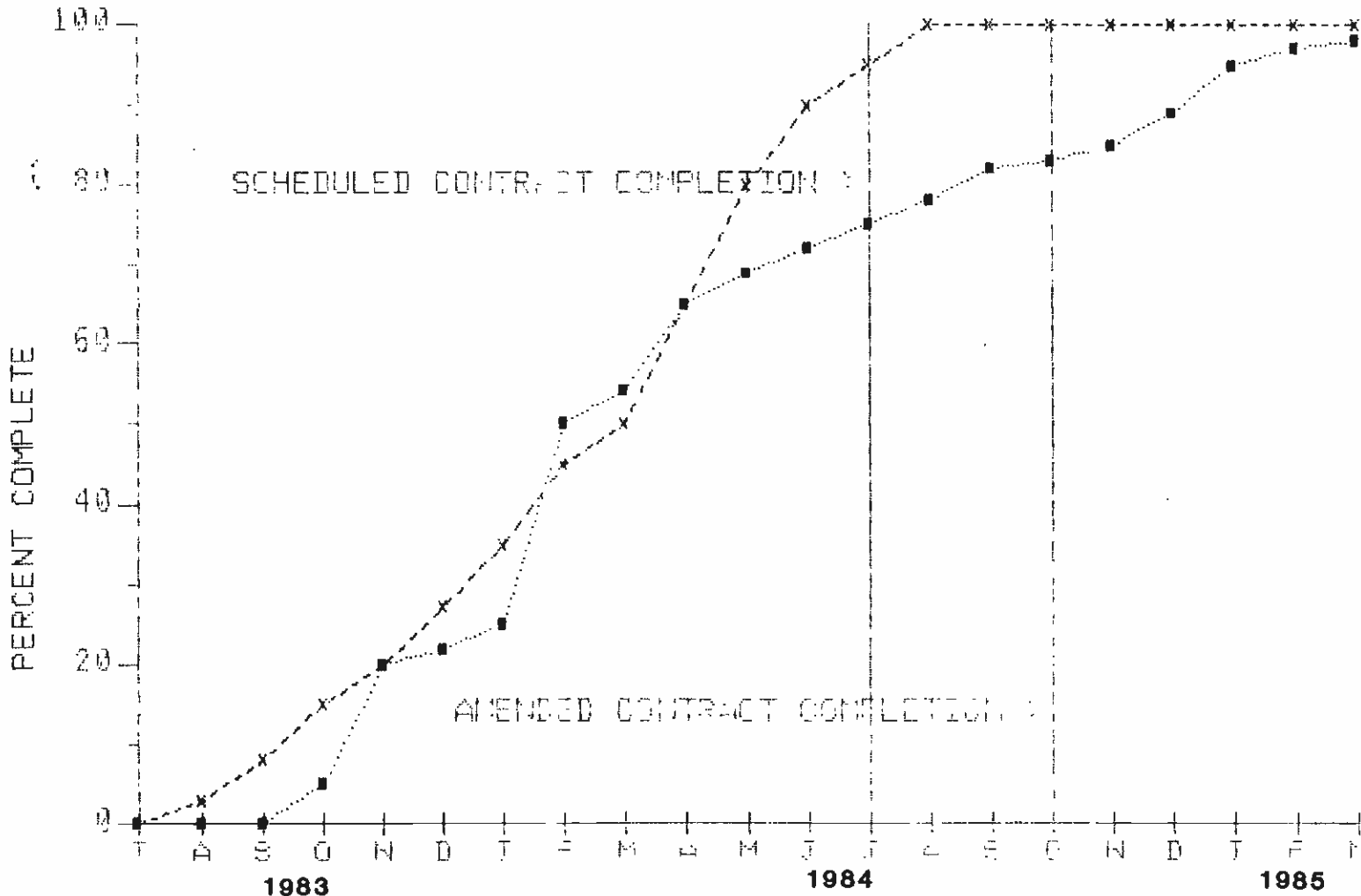
CONCLUSIONS AND OBSERVATIONS:

Gannett Fleming/Dworsky stopped work on this contract in March and the MRTC will complete the remaining design effort.

However, the District Project Architect feels that the \$35,000 shown as the estimate to complete is not sufficient to complete design on this contract.

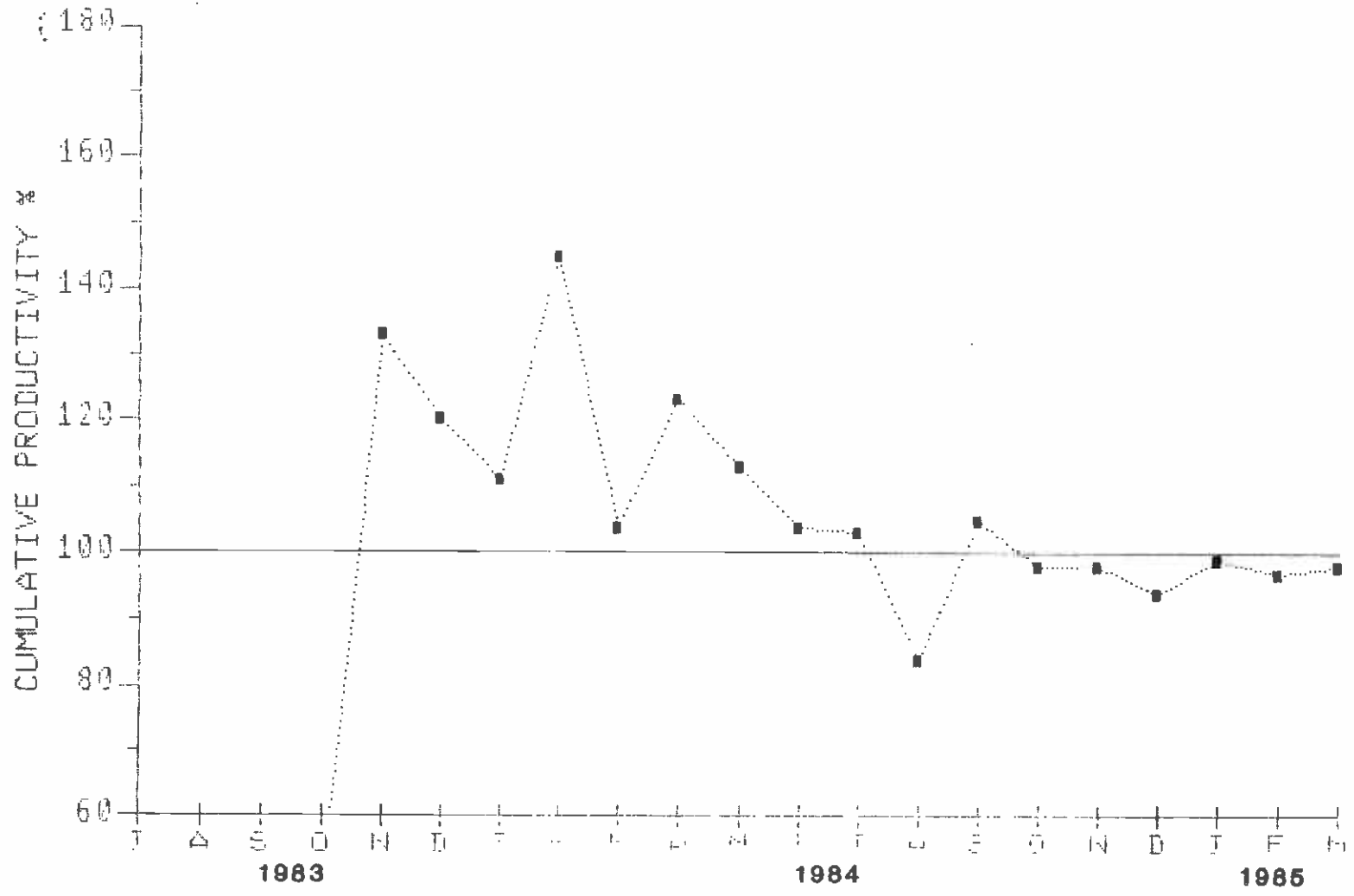
RFD METRO RAIL PROJECT
 CONTRACT A165 - SEVENTH & FLOWER
 SECTION DESIGNER: GANNETT FLEMING AND O'SHEA
 MARCH 1985

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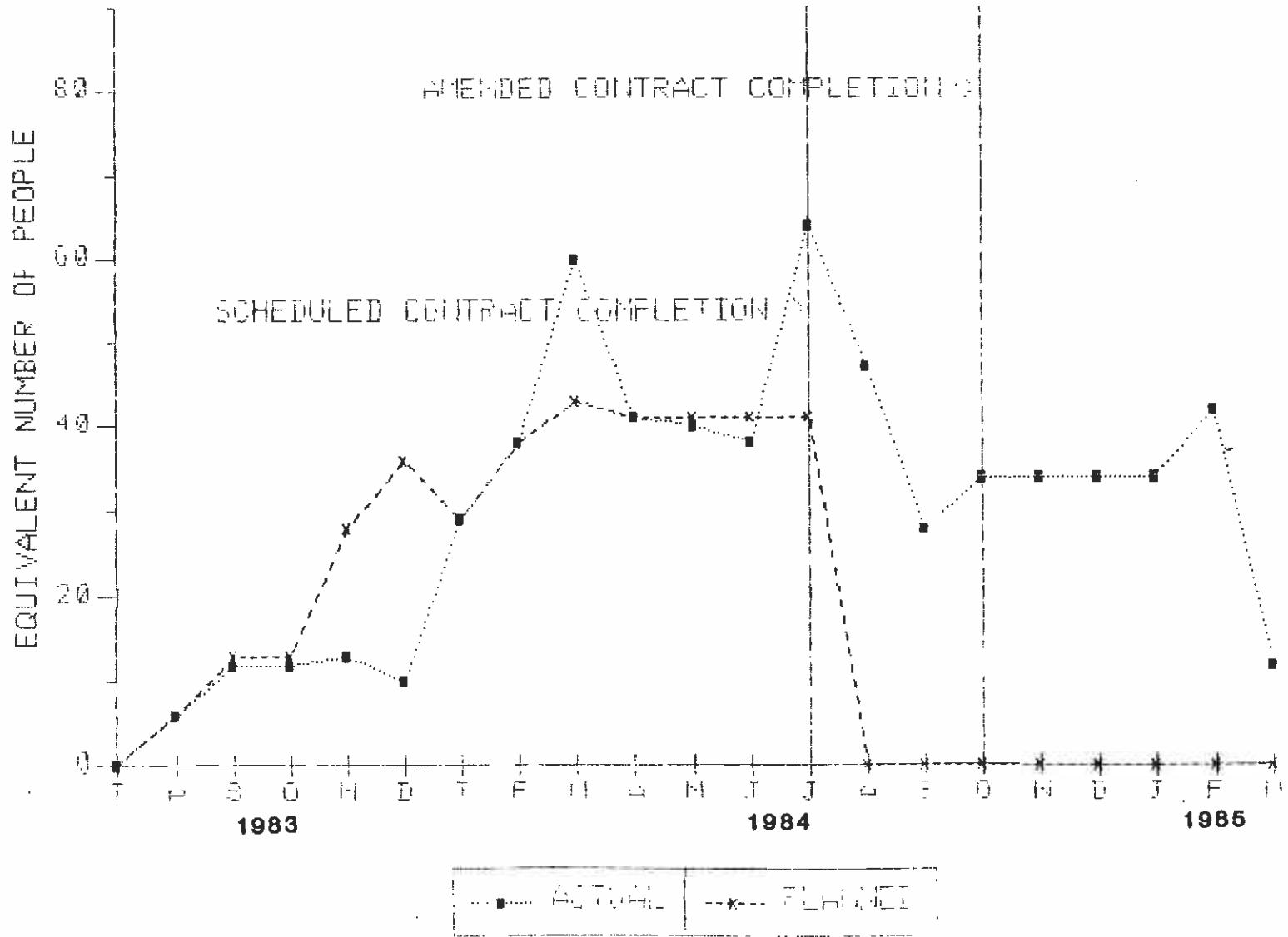
RID METRO RAIL PROJECT
 CONTRACT A165 - SEVENTH & FLOWER
 SECTION DESIGNER: GANNETT FLEMING DWORSKY
 MARCH 1985

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ACTUAL

RTD METRO RAIL PROJECT
 CONTRACT #165 - SEVENTH & FLOWER
 SECTION DESIGNER: GANNETT FLEMING-DWORSKY
 MARCH 1985



37 MTA LIBRARY

COST PERFORMANCE REPORT
SECTION DESIGNER

CONTRACT NO. : A170, Wilshire/Alvarado Station + Line
 CONTRACTOR : Sverdrup Corporation
 REPORT PERIOD : March 1985

(1) ORIGINAL CONTRACT COST	(2) APPROVED CONTRACT CHANGES	(3) CURRENT CONTRACT COST (1) + (2)	(4) PENDING CHANGES	(5) MRTC ESTIMATE AT COMPLETION (3) + (4)	(6) EXPENDED	(7) ESTIMATE TO COMPLETE (5) - (6)
\$ 3,119,430	\$ 731,792	\$ 3,851,222	\$ 948,778	\$ 4,800,000	\$ 4,391,000	\$ 409,000

CUMULATIVE TO DATE
(BASED ON MRTC MONTHLY PRGOGRESS REPORT DATA)

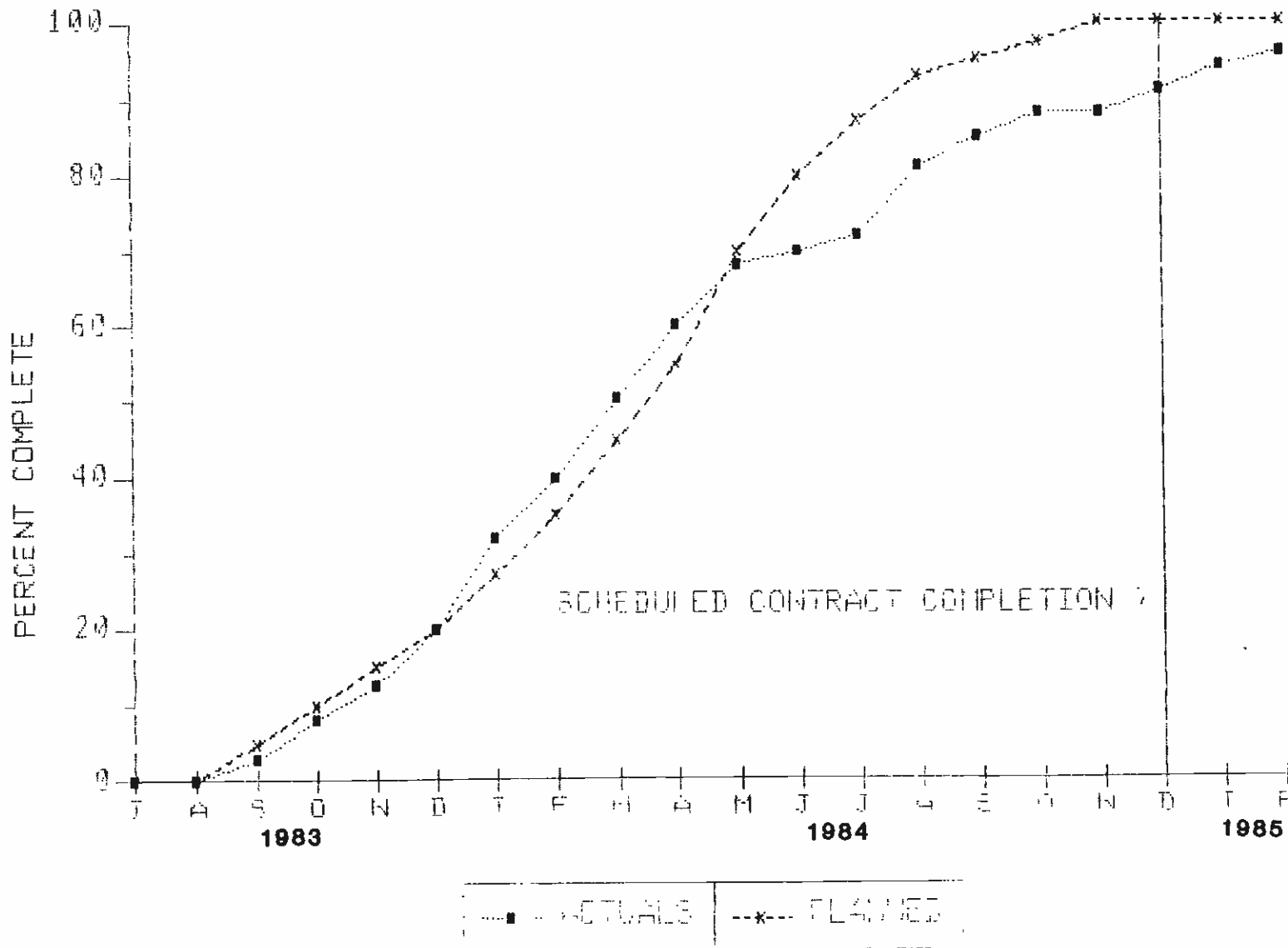
PERCENT COMPLETE			MANHOUR PRODUCTIVITY	\$ C.P.I.	\$ COST VARIANCE	T.C.P.I.	\$ RTD I.E.A.C.
PLANNED	FORECAST	ACTUAL					
100%	N/A	N/A	N/A	N/A	N/A	N/A	N/A

CONCLUSIONS AND OBSERVATIONS:

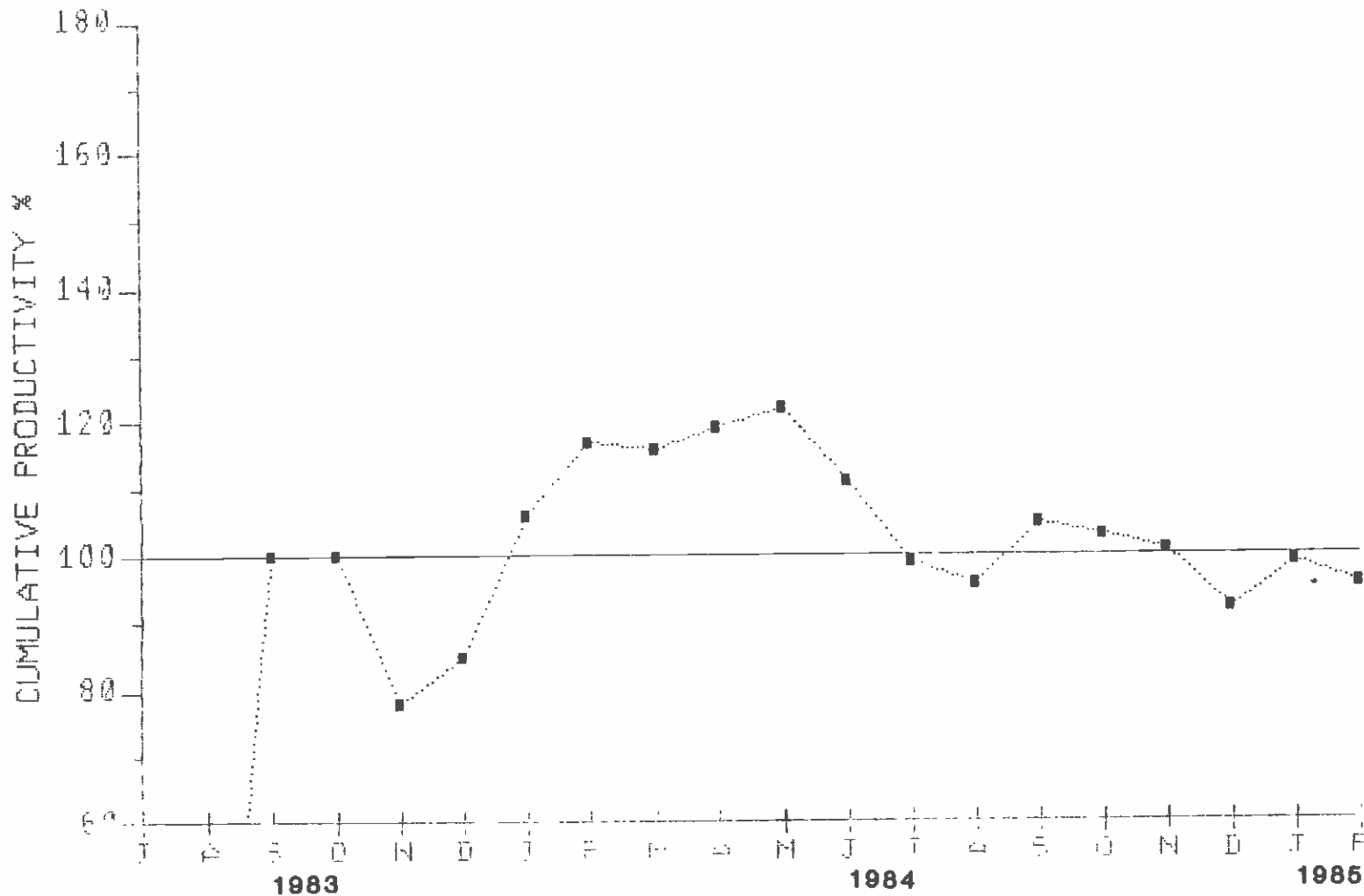
No actual percent complete was reported this month, therefore, most of the cost analyses could not be performed.

RTD METRO RAIL PROJECT
 CONTRACT A170 - WILSHIRE PALMAREDO
 SECTION DESIGNER: SVERDRUP CORP.
 MARCH 1985

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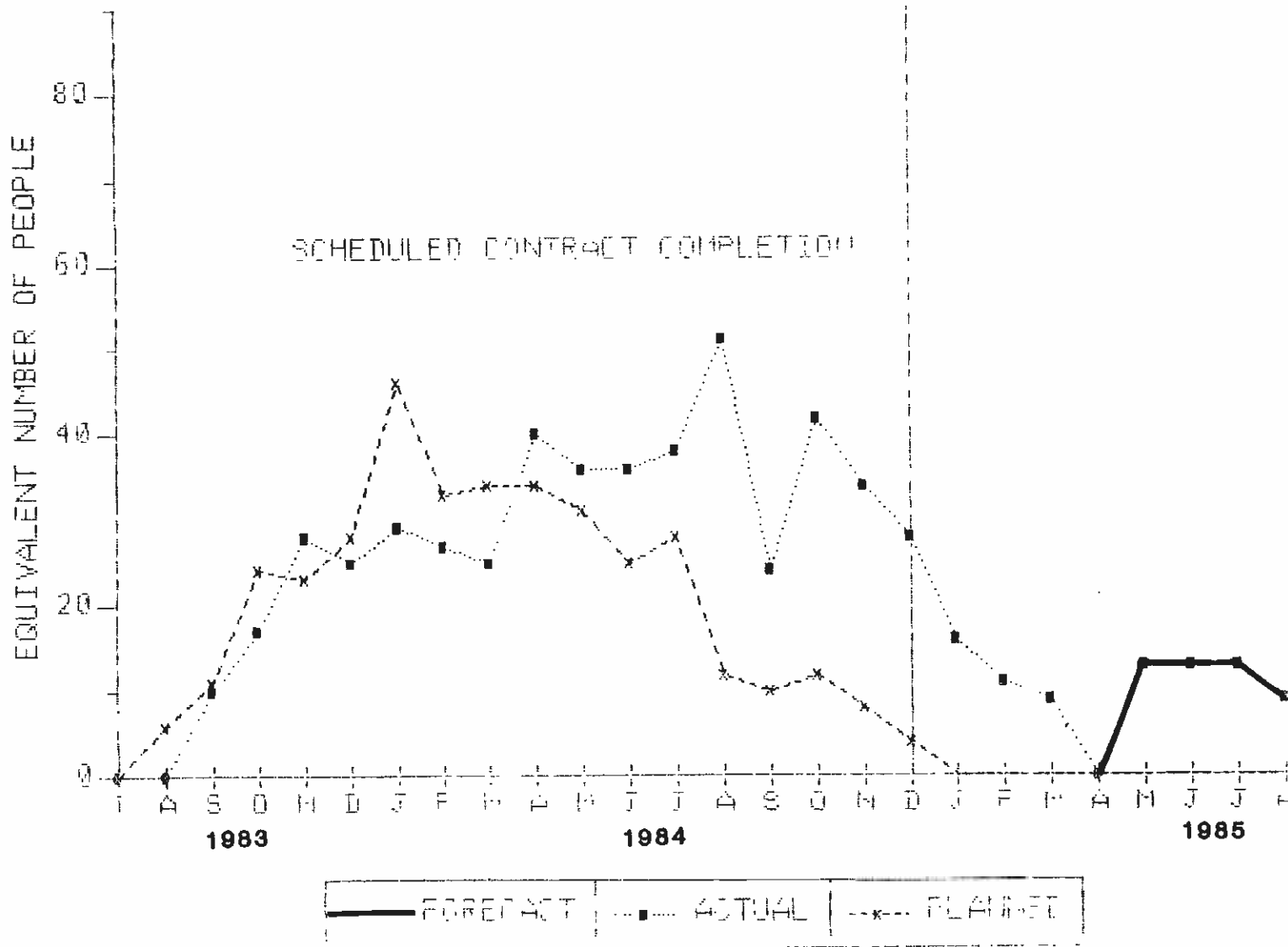


RFD METRO RAIL PROJECT
CONTRACT A170 - WILSHIRE/ALVARADO
SECTION DESIGNER: SVERDRUP CORP.
MARCH 1985



ACTUAL

RTD METRO RAIL PROJECT
 CONTRACT A170 - WILSHIRE-ALVARADO
 SECTION DESIGNER: SVERDRUP CORP.
 MARCH 1985



COST PERFORMANCE REPORT
SYSTEMS DESIGNER

CONTRACT NO. : A612, A615, A630 - Traction Power Procurement
 CONTRACTOR : MRTC
 REPORT PERIOD : March 1985

(1) ORIGINAL CONTRACT COST	(2) APPROVED CONTRACT CHANGES	(3) CURRENT CONTRACT COST (1) + (2)	(4) PENDING CHANGES	(5) MRTC ESTIMATE AT COMPLETION (3) + (4)	(6) EXPENDED	(7) ESTIMATE TO COMPLETE (5) - (6)
N/A	N/A	N/A	N/A	\$942,000	\$880,000	\$62,000

CUMULATIVE TO DATE

PERCENT COMPLETE			MANHOUR PRODUCTIVITY	\$ C.P.I.	\$ COST VARIANCE	T.C.P.I.	\$ RTD I.E.A.C.
PLANNED	FORECAST	ACTUAL					
100%	98%	97%	104%	\$1.04	\$ (33,740)	46%	\$ 905,769

CONCLUSIONS AND OBSERVATIONS:

This design unit continues to proceed satisfactorily with productivity, C.P.I., and the cost variance maintaining the steady increase they have shown since December.

COST PERFORMANCE REPORT
SYSTEMS DESIGNER

CONTRACT NO. : A620, Automatic Train Control
 CONTRACTOR : MRTC
 REPORT PERIOD : March 1985

(1) ORIGINAL CONTRACT COST	(2) APPROVED CONTRACT CHANGES	(3) CURRENT CONTRACT COST (1) + (2)	(4) PENDING CHANGES	(5) MRTC ESTIMATE AT COMPLETION (3) + (4)	(6) EXPENDED	(7) ESTIMATE TO COMPLETE (5) - (6)
N/A	N/A	N/A	N/A	\$888,000	\$634,000	\$254,000

CUMULATIVE TO DATE

PERCENT COMPLETE			MANHOUR PRODUCTIVITY	\$ C.P.I.	\$ COST VARIANCE	T.C.P.I.	\$ RTD I.E.A.C.
PLANNED	FORECAST	ACTUAL					
97%	73%	72%	101%	\$1.01	\$(5,360)	98%	\$879,208

CONCLUSIONS AND OBSERVATIONS:

The District Project Engineer feels that the actual percent complete reported by the consultant is overstated. This has resulted in exaggerated cost and labor performance figures.

COST PERFORMANCE REPORT
SYSTEMS DESIGNER

CONTRACT NO. : A631, Traction Power Installation
 CONTRACTOR : MRTC
 REPORT PERIOD : March 1985

(1) ORIGINAL CONTRACT COST	(2) APPROVED CONTRACT CHANGES	(3) CURRENT CONTRACT COST (1) + (2)	(4) PENDING CHANGES	(5) MRTC ESTIMATE AT COMPLETION (3) + (4)	(6) EXPENDED	(7) ESTIMATE TO COMPLETE (5) - (6)
N/A	N/A	N/A	N/A	\$526,000	\$190,000	\$336,000

CUMULATIVE TO DATE

PERCENT COMPLETE			MANHOURL PRODUCTIVITY	\$ C.P.I.	\$ COST VARIANCE	T.C.P.I.	\$ RTD I.E.A.C.
PLANNED	FORECAST	ACTUAL					
40%	40%	40%	110%	\$1.11	\$(20,400)	94%	\$473,874

CONCLUSIONS AND OBSERVATIONS:

The Traction Power Installation design unit continues to proceed satisfactorily.

COST PERFORMANCE REPORT
SYSTEMS DESIGNER

CONTRACT NO. : A640, Communications
 CONTRACTOR : MRTC
 REPORT PERIOD : March 1985

(1) ORIGINAL CONTRACT COST	(2) APPROVED CONTRACT CHANGES	(3) CURRENT CONTRACT COST (1) + (2)	(4) PENDING CHANGES	(5) MRTC ESTIMATE AT COMPLETION (3) + (4)	(6) EXPENDED	(7) ESTIMATE TO COMPLETE (5) - (6)
N/A	N/A	N/A	N/A	\$1,362,000	\$904,000	\$458,000

CUMULATIVE TO DATE

PERCENT COMPLETE			MANHOUR PRODUCTIVITY	\$ C.P.I.	\$ COST VARIANCE	T.C.P.I.	\$ RTD I.E.A.C.
PLANNED	FORECAST	ACTUAL					
95%	64%	64%	94%	\$.96	\$32,320	107%	\$1,418,750

CONCLUSIONS AND OBSERVATIONS:

Productivity is increasing and in turn reducing the cost variance. This contract is progressing satisfactorily with no problem areas identified at this time. RTD Project Engineer feels the actual percent complete is overstated and is closer to 62 or 63 percent complete this month.

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MTA LIBRARY

COST PERFORMANCE REPORT
SYSTEMS DESIGNER

CONTRACT NO. : A650, Passenger Vehicles
 CONTRACTOR : MRTC
 REPORT PERIOD : March 1985

(1) ORIGINAL CONTRACT COST	(2) APPROVED CONTRACT CHANGES	(3) CURRENT CONTRACT COST (1) + (2)	(4) PENDING CHANGES	(5) MRTC ESTIMATE AT COMPLETION (3) + (4)	(6) EXPENDED	(7) ESTIMATE TO COMPLETE (5) - (6)
N/A	N/A	N/A	N/A	\$898,000	\$761,000	\$137,000

CUMULATIVE TO DATE

PERCENT COMPLETE			MANHOUR PRODUCTIVITY	\$ C.P.I.	\$ COST VARIANCE	T.C.P.I.	\$ RTD I.E.A.C.
PLANNED	FORECAST	ACTUAL					
100%	88%	86%	101%	\$1.02	\$(11,280)	92%	\$880,392

CONCLUSIONS AND OBSERVATIONS:

The consultant continues to report good cost and labor performance despite being slightly behind forecasted progress.

COST PERFORMANCE REPORT
SYSTEMS DESIGNER

CONTRACT NO. : A660, Fare Collection
 CONTRACTOR : MRTC
 REPORT PERIOD : March 1985

(1) ORIGINAL CONTRACT COST	(2) APPROVED CONTRACT CHANGES	(3) CURRENT CONTRACT COST (1) + (2)	(4) PENDING CHANGES	(5) MRTC ESTIMATE AT COMPLETION (3) + (4)	(6) EXPENDED	(7) ESTIMATE TO COMPLETE (5) - (6)
N/A	N/A	N/A	N/A	\$507,000	\$344,000	\$163,000

CUMULATIVE TO DATE

PERCENT COMPLETE			MANHOURL PRODUCTIVITY	\$ C.P.I.	\$ COST VARIANCE	T.C.P.I.	\$ RTD I.E.A.C.
PLANNED	FORECAST	ACTUAL					
70%	69%	64%	94%	\$.95	\$19,520	112%	\$533,684

CONCLUSIONS AND OBSERVATIONS:

This contract is progressing satisfactorily with no problem areas identified at this time.

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MTA LIBRARY

COST PERFORMANCE REPORT
SYSTEMS DESIGNER

CONTRACT NO. : A670 (A671-679), Auxiliary Vehicles
 CONTRACTOR : MRTC
 REPORT PERIOD : March 1985

(1) ORIGINAL CONTRACT COST	(2) APPROVED CONTRACT CHANGES	(3) CURRENT CONTRACT COST (1) + (2)	(4) PENDING CHANGES	(5) MRTC ESTIMATE AT COMPLETION (3) + (4)	(6) EXPENDED	(7) ESTIMATE TO COMPLETE (5) - (6)
*	*	*	*	*	*	*

CUMULATIVE TO DATE

PERCENT COMPLETE			MANHOUR PRODUCTIVITY	\$ C.P.I.	\$ COST VARIANCE	T.C.P.I.	\$ RTD I.E.A.C.
PLANNED	FORECAST	ACTUAL					
*	*	*	* §	*	*	* §	*

CONCLUSIONS AND OBSERVATIONS:

* Insufficient information. Percent complete of 100%, as stated in the MRTC Progress Report, pertains only to the locomotive portion of the Auxiliary Vehicles design unit.

B. SCHEDULE

MOS-1 Critical Path

The Critical Path (MOS-1) defined in the Level III Project Schedule originates at Design Contract A135 (Union Station, Stage I) and continues to Engineering Review and Bid Documents of Contract A133 (Union Station Baggage Handling Facilities). This path follows A135 construction - from West end installation of soldier piles, to the East end form and pour roof slab. The path then shifts to Architectural Work, the auxiliary Power in Contract A136 (Union Station, Stage II) and continues through connecting/testing of Traction Power, Automatic Train Control, and Communications Equipment & Cabling. The path proceeds through Passenger Vehicles Tests, Automatic Train Control Dynamic Tests, and finally to Pre-Revenue Operations Testing.

METRO RAIL PROJECT
SCHEDULE EXCEPTION REPORT

Minimum Operable Segment-1 Design Contracts

CONTRACT: All12 Main Shop Building and Yard Service Area

AREA OF CONCERN: The completion of the Bid Documents has been delayed due to the incorporation of the Rail Control Center (RCC) which is on hold pending decision on the use of Westransco building. The completion of design is forecast for 7/1/85.

RECOMMENDATION: Decision on the use of Westransco building is necessary.

CONTRACT: All14 Maintenance of Way Shop Building

AREA OF CONCERN: The completion of the Bid Documents has been delayed due to pending decision on the use of existing Santa Fe Trail building.

RECOMMENDATION: Decision on the use of existing Santa Fe Trail building is necessary.

CONTRACT: All15 Yard Storage Area

AREA OF CONCERN: Completion of the Bid Documents has slipped to 7/1/85; slippage is due to the need to separate fencing and lighting drawings, and to provide a temporary construction access to the site.

RECOMMENDATION: Real Estate is not completely available until 6/01/86. Contract All15 is scheduled to be advertised 10/18/85. A partial NTP still can be given on the scheduled NTP date of 2/27/86. It is recommended that MRTC manpower be allocated to priority contracts (i.e., All12 and All14 for the completion of Bid Documents).

CONTRACT: A130 Yard Leads and Transfer Zone
AREA OF CONCERN: Section Designer was issued a stop work order 2/28/85. Design is 95% complete, including recent Yard changes.
RECOMMENDATION: MRTC should complete design and maintain the current forecast completion date of 6/30/85, for the Bid Documents.

CONTRACT: A133 Amtrak Baggage Handling Relocation
AREA OF CONCERN: Completion of the Bid Documents (forecasted 6/1/85) is pending approval of Los Angeles Union Passenger Terminal.
RECOMMENDATION: All Union Station issues must be resolved before LAUPT will approve Contract A133.

CONTRACT: A135 Union Station
AREA OF CONCERN: Section Designer was issued a stop work order 2/28/85. Design is 98% complete.
RECOMMENDATION: Close-out amendment is being prepared. MRTC to expedite design completion after the Yard contracts are finished.

CONTRACT: A165 7th & Flower Station
AREA OF CONCERN: Section Designer was issued a stop work order 3/31/85 and completed contract work. Remaining design modifications are forecast to be completed 7/1/85 by MRTC.
RECOMMENDATION: Close-out amendment being prepared. MRTC to complete design when other priority work [i.e. Yard design changes and technical (standard) specifications] is complete.

CONTRACT: Al70 Wilshire/Alvarado Station
AREA OF CONCERN: Section Designer was issued a stop work
order 3/8/85.
RECOMMENDATION: MRTC to renegotiate with the Section
Designer for the completion of design
changes and remaining items of work.

Non-Minimum Operable Segment-1 Design Contracts

CONTRACT: A240 Wilshire/Crenshaw Station

AREA OF CONCERN: Contract completion is forecast 11 weeks beyond the contract Time of Performance (1/26/85). Delay is due to the late receipt of seismic design criteria, and numerous ECRs that require design changes. Pre-final submittal of Increment I is under review by MRTC. The review and incorporation of comments will not be completed on the current forecast date of 4/15/85.

RECOMMENDATION: The Contract Amendment for Increment I should be expedited to extend the Time of Performance to (4/15/85).

CONTRACT: A245 Wilshire/La Brea Station

AREA OF CONCERN: Contract completion is forecast 28 weeks beyond the contract Time of Performance (10/15/84). Previous delay was due to design changes and Section Designer's personnel shortage. This month's slip of 4 weeks is due to the late distribution of the 85% submittal and the incorporation of the review comments.

RECOMMENDATION: Contract Amendment for Increment I should be expedited to extend the Time of Performance to (3/30/85).

CONTRACT: A275 Fairfax/Beverly Station

AREA OF CONCERN: Contract completion is forecast 14 weeks beyond the Contract Time of Performance (12/27/84). Delay is due to the late receipt of seismic design criteria, and numerous ECRs that require changes in the design. The Section Design is now completing documents for final submittal (4/5/85).

RECOMMENDATION: Contract Amendment for Increment I should be expedited to extend the Time of Performance to (3/29/85).

CONTRACT: A425 Universal City Station

AREA OF CONCERN: Contract completion is forecast 9 weeks beyond the Contract Time of Performance (2/11/85). Delay is due to the late receipt of seismic design criteria.

RECOMMENDATION: Contract Amendment #4 for Increment I should be expedited to extend the Time of Performance.

CONTRACT: A430 Line between Universal City and North Hollywood Stations

AREA OF CONCERN: Contract completion is forecast 6 weeks beyond the Contract Time of Performance (3/20/85). Slippage is due to lack of available specifications.

RECOMMENDATIONS: Contract Amendment #4 for Increment I should be expedited to extend the Time of Performance.

Systemwide Contracts

CONTRACT: A610 MOS-1 Trackwork

AREA OF CONCERN: The Pre-final (85%) drawings have been received. Technical specifications and cost estimate are forecast to be submitted one month late. MRTC February Progress Report indicates design is 62% complete, and manpower continues below the planned estimate. It is highly improbable that design will be 100% complete on the schedule and forecast date 5/15/85.

RECOMMENDATION: MRTC should increase manpower and revise the schedule to reflect the current plan to complete trackwork design. Upon receipt of a realistic schedule, the MOS-1 Level II Contract Interface Schedule will be revised.

CONTRACT: A740 Fans
A745 TPSS Air Handling Equipment

AREA OF CONCERN: Progress for these Contracts has slipped beyond the Baseline Schedule early finish dates. Slippage is due to enlarging the fan size for A187 (Wilshire/Alvarado Station). Baseline schedule indicates considerable float for these contracts.

RECOMMENDATION: The Baseline Schedule should be revised to reflect the current forecast completion dates.

CONTRACT: A760 Graphics and Signage

AREA OF CONCERN: The Bid Document completion date is forecast 15 weeks beyond the scheduled completion date of 4/18/85. Delay is due to changes in the contract scope of work.

RECOMMENDATION: The Baseline Schedule indicates a total float of 285 work days for this contract. The (early finish) date (4/18/85) should be revised to reflect current forecast completion date (6/1/85).

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METRO RAIL PROJECT
DESIGN SCHEDULE STATUS

STATUS AS OF: March 31, 1985

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DESIGN CONTRACTS & CONSTRUCTION PACKAGES	NOTICE TO PROCEED	CONTRACT TIME OF PERFORM.	IN PROGRESS SCHEDULE	SUBMITTAL F'CAST(F) ACTUAL(A)	PRE-FINAL SCHEDULE	SUBMITTAL F'CAST(F) ACTUAL(A)	FINAL SUBMITTAL		BID DOCUMENTS		CURR MONTH SLIPPAGE (C.D.)	TOTAL DELAY (WEEKS)
							BASELINE SCHEDULE	F'CAST(F) ACTUAL(A)	BASELINE SCHEDULE	F'CAST(F) ACTUAL(A)		
MOS-1:												
YARD & SHOPS	07/13/83	01/31/85										
A112		STOP WORK	02/01/84	06/14/84A	03/28/84	10/11/84A	12/10/84	12/10/84A	02/05/85	07/01/85F	-	21
A114		(02/28/85)	-	01/27/84A	04/25/84	05/30/84A	11/30/84	04/12/85F	01/28/85	05/10/85F	10	14
A115			09/10/84	09/24/84A	10/08/84	11/01/84A	12/10/84	12/28/84A	02/22/85	07/01/85F	-	18
A130			03/07/84	09/10/84A	05/02/84	12/24/84A	03/13/85	05/15/85F	08/22/85	06/30/85F	-	-
UNION STATION	07/13/83	12/31/84										
A133 BAGGAGE HANDLING		STOP WORK (02/28/85)	-	11/08/84A	-	12/14/85A	-	03/01/85A	04/25/85	06/01/85F	92	5
A135 STAGE I			02/01/84	03/09/84A	04/01/84	11/30/84A	03/01/85	07/01/85F	05/23/85	08/01/85F	70	10
A136 STAGE II			02/01/84	03/09/84A	04/01/84	11/30/84A	03/01/85	07/01/85F	04/26/85	08/01/85F	92	14
LINE, CIVIC CENTER & 5TH / HILL	07/27/83	08/24/85										
A141 LINE & STAGE I		(PER AMEND #6)	08/01/84	08/01/84A	03/01/85	03/01/85A	06/10/85	06/10/85F	08/05/85	08/07/85F	-	-
A142 EXC./SUP.			08/01/84	07/16/84A	09/07/84	09/28/84A	12/24/84	12/15/84A	03/28/85	04/26/85F	-	-
A147 STAGE II			08/01/84	08/01/84A	03/01/85	03/01/85A	06/10/85	06/10/85F	08/06/85	08/06/85F	-	-
A145 STAGE I			08/01/84	08/01/84A	03/01/85	03/01/85A	06/10/85	07/08/85F	08/07/85	09/08/85F	-	2
A157 STAGE II			08/01/84	08/01/84A	03/01/85	03/01/85A	06/10/85	07/08/85F	08/06/85	09/06/85F	-	2
A148 VAULT RELO.			-	-	-	-	05/15/85	05/15/85F	06/12/85	06/12/85F	-	-
7TH & FLOWER	08/09/83	01/31/85										
A166 STAGE I		STOP WORK	02/07/84	03/12/84A	05/22/84	11/26/84A	03/01/85	05/15/85F	08/05/85	07/01/85F	-	-
A167 STAGE II		(03/31/85)	02/07/84	03/12/84A	05/22/84	11/26/84A	03/01/85	05/15/85F	08/05/85	07/01/85F	-	-
WILSH./ALVARADO	08/09/83	12/07/84										
A171&A175 STAGE I		STOP WORK	02/14/84	02/16/84A	05/30/84	11/26/84A	03/15/85	03/12/85A	05/05/85	08/30/85F	112	16
A187 STAGE II		(03/09/85)	04/02/84	05/07/84A	07/25/84	11/26/84A	03/15/85	03/12/85A	05/09/85	08/30/85F	112	16

NOTE: FINAL SUBMITTAL AND BID DOCUMENTS BASELINE SCHEDULE DATE COLUMNS ARE FROM THE APPROVED BASELINE SCHEDULE (DATED 1/23/85).

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METRO RAIL PROJECT
DESIGN SCHEDULE STATUS

STATUS AS OF: March 31, 1985

DESIGN CONTRACTS & CONSTRUCTION PACKAGES	NOTICE TO PROCEED	CONTRACT TIME OF PERFORM.	IN PROGRESS SCHEDULE	SUBMITTAL F'CAST (F) ACTUAL (A)	PRE-FINAL SCHEDULE	SUBMITTAL F'CAST (F) ACTUAL (A)	FINAL SUBMITTAL (85%)* SCHEDULE	F'CAST (F) ACTUAL (A)	CURR MONTH SLIPPAGE (C.D.)	TOTAL DELAY (WEEKS)
BEYOND MOS-1										
WILSH./VERMONT A196 STAGE I	08/12/83	08/11/84	02/07/84	02/10/84A	05/22/84	12/14/84A	08/07/84	02/27/85A	-	-
A197 STAGE II			02/07/84	02/10/84A				-	-	-
LINE, WESTERN & NORMANDIE STA. A220 LINE	10/10/83	10/07/85	10/08/84	06/26/84A	04/08/85	03/06/85A	10/07/85	06/26/85F	-	-
WILSH./WESTERN A220 STAGE I			08/06/84	08/23/84A	11/05/84	01/09/85A	02/04/85	06/26/85F	-	-
A237 STAGE II			08/06/84	08/23/84A	-	-	-	-	-	-
WILSH./NORMANDIE A220 STAGE I			12/03/84	02/20/85A	03/04/85	05/01/85F	06/03/85	06/26/85F	-	-
A227 STAGE II			12/03/84	-	-	-	-	-	-	-
WILSH./CRENSHAW A240 STAGE I	01/27/84	01/26/85	07/26/84	09/13/84A	11/01/84	03/14/85A	01/15/85	04/15/85F	-	11
A242 STAGE II			07/26/84	09/13/85A	-	-	-	-	-	-
WILSH./LA BREA A245 STAGE I	10/10/83	10/15/84	04/16/84	05/07/84A	07/07/84	03/08/85A	10/16/84	04/30/85F	30	28
A247 STAGE II			04/16/84	05/07/84A	-	-	-	-	-	-
WILSH./FAIRFAX & LINE A250 STAGE I	03/02/84	06/17/85	11/12/84	11/15/84A	03/04/85	04/10/85F	05/06/85	05/31/85F	25	-
A267 STAGE II			11/12/84	11/15/84A	-	-	-	-	-	-

*DESIGN CONTRACTS BEYOND MOS-1 WILL TERMINATE AT THE 85% DESIGN LEVEL.

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METRO RAIL PROJECT
DESIGN SCHEDULE STATUS

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DESIGN CONTRACTS & CONSTRUCTION PACKAGES	NOTICE TO PROCEED	CONTRACT TIME OF PERFORM.	IN PROGRESS SCHEDULE	SUBMITTAL F' CAST (F) ACTUAL (A)	PRE-FINAL SCHEDULE	SUBMITTAL F' CAST (F) ACTUAL (A)	FINAL SUBMITTAL (85%) *		BID DOCUMENTS	
							SCHEDULE	F' CAST (F) ACTUAL (A)	SLIPPAGE (C.D.)	DELAY (WEEKS)
FAIRFAX/BEVERLY A275 STAGE I	12/30/83	12/27/84	06/28/84	06/28/84A	09/27/84	01/31/85A	12/27/84	04/05/85F	7	14
A277 STAGE II			06/28/84	06/28/84A	-	-	-	-	-	-
FAIRFAX/SANTA MONICA & TUNNEL	12/05/83	12/05/85								
A320 STAGE I			11/10/84	11/12/84A	03/06/85	03/06/85A	05/15/85	05/15/85F	-	-
A327 STAGE II			11/10/84	11/12/84A	-	-	-	-	-	-
LA BREA/SUNSET										
A330 STAGE I			02/06/85	02/06/85A	05/29/85	05/29/85F	07/31/85	07/31/85F	-	-
A347 STAGE II			-	-	-	-	-	-	-	-
HOLLYWOOD/ CAHUENGA	12/29/83	05/02/85								
A350 STAGE I			08/27/84	09/10/84A	12/20/84	03/18/85A	05/02/85	04/29/85F	-	-
A352 STAGE II			08/27/84	09/10/84A	-	-	-	-	-	-
LINE BETWEEN HOLLYWOOD/ CAHUENGA AND UNIVERSAL CITY										
A410	12/29/83	12/29/84	06/28/84	07/31/84A	09/28/84	11/26/84A	12/28/84	01/18/85A	-	-
HOLLYWOOD BOWL A415	02/13/84	02/11/85	08/13/84	11/16/84A	DESIGN TERMINATED AT 50% DESIGN LEVEL				-	-
UNIVERSAL CITY										
A425 STAGE I	02/13/84	02/11/85	-	08/13/84	08/15/84A	11/19/84	02/04/85A	02/11/85	04/15/85F	28
A427 STAGE II			-	08/13/84	08/15/84A	-	-	-	-	-

*DESIGN CONTRACTS BEYOND MOS-1 WILL TERMINATE AT THE 85% DESIGN LEVEL.

METRO RAIL PROJECT
DESIGN SCHEDULE STATUS

STATUS AS OF: March 31, 1985

DESIGN CONTRACTS & CONSTRUCTION PACKAGES	NOTICE TO PROCEED	CONTRACT TIME OF PERFORM.	IN PROGRESS SCHEDULE	SUBMITTAL F'CAST (F) ACTUAL (A)	PRE-FINAL SUBMITTAL SCHEDULE	SUBMITTAL F'CAST (F) ACTUAL (A)	FINAL SUBMITTAL (85%)* SCHEDULE	F'CAST (F) ACTUAL (A)	CURR MONTH SLIPPAGE (C.D.)	TOTAL DELAY (WEEKS)
LINE BETWEEN UNIVERSAL CITY & NO. HOLLYWOOD A430	12/29/83	03/20/85	07/06/84	08/06/84A	02/06/85	02/27/85A	03/20/85	04/30/85F	41	6
NORTH HOLLYWOOD A445 STAGE I	12/29/83	05/03/85	09/20/84	10/01/84A	01/31/85	03/01/85A	05/27/85	05/03/85F	-	-
A447 STAGE II			09/20/84	10/01/84A	-	-	-	-	-	-

*DESIGN CONTRACTS BEYOND MOS-1 WILL TERMINATE AT THE 85% DESIGN LEVEL.

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METRO RAIL PROJECT
DESIGN SCHEDULE STATUS

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DESIGN CONTRACTS & CONSTRUCTION PACKAGES	NOTICE TO PROCEED	CONTRACT TIME OF PERFORM.	IN PROGRESS SCHEDULE	SUBMITTAL F'CAST (F) ACTUAL (A)	PRE FINAL SCHEDULE	SUBMITTAL F'CAST (F) ACTUAL (A)	FINAL SUBMITTAL		BID DOCUMENTS		CURR MONTH SLIPPAGE (C.D.)	TOTAL DELAY (WEEKS)
							BASELINE SCHEDULE	F'CAST (F) ACTUAL (A)	BASELINE SCHEDULE	F'CAST (F) ACTUAL (A)		
SYSTEMWIDE												
A610 MOS-1 TRACKWORK	03/01/84	-	01/15/85	01/15/85A	03/15/85	04/12/85F	05/15/85	05/15/85F	07/15/85	07/15/85F	-	-*
A620 ATC	05/02/83	-	09/28/84	02/14/85A	17/09/85	07/09/85F	09/30/85	09/26/85F	11/25/85	-	-	-
A630 TRACTION POWER EQUIP. INCL	02/01/84	-	04/30/84	05/29/84A	11/30/84	01/10/85A	10/03/85	04/30/85F	11/27/85	-	-	-
A612 & A615 A631 TRACTION POWER INSTAL.	02/01/84	-	07/01/85	07/01/85F	01/31/86	01/31/86F	07/01/86	04/30/86F	08/26/86	-	-	-
A640 COMM.	05/02/83	-	03/30/85	02/19/85A	05/30/85	08/19/85F	12/06/85	12/02/85F	02/03/86	-	-	-
A650 PASS. VEHICLES	05/02/83	-	07/23/84	07/23/84A	11/01/84	04/15/85F	07/01/85	07/01/85F	08/26/85	-	-	-
A660 FARE COLLECTION	05/02/83	-	11/01/84	03/29/85F	06/01/85	07/31/85F	03/18/86	02/03/86F	05/12/86	-	-	-
A671 AUX. VEHIC. LOCOMOTIVE	05/02/83	-	05/01/84	05/11/84A	10/01/84	11/07/84A	01/22/85	02/14/85A	03/18/85	-	-	-
A672 FLATCAR	05/02/83	-	NA	NA	05/10/85	05/10/85F	07/12/85	07/12/85F	09/07/85	-	-	-
A675 CRANE	05/02/83	-	NA	NA	05/31/85	05/31/85F	07/12/85	07/12/85F	09/07/85	-	-	-
A710 ESCALATORS	05/02/83	-	01/30/84	02/08/84A	05/02/84	06/21/84A	01/22/86	01/14/85A	03/18/86	-	-	-
A720 ELEVATORS	05/02/83	-	05/01/84	07/02/84A	N/A	N/A	01/22/86	01/14/85A	03/12/86	-	-	-
A740 FANS	01/15/84	-	04/02/84	04/16/84A	N/A	N/A	02/15/85	04/15/85F	04/11/85	06/01/85F	30	7
A745 TPSS AIR HANDLING EQUIP.	05/15/84	-	11/15/84	04/15/85F	N/A	N/A	03/15/85	05/15/85F	05/09/85	06/01/85F	15	3
A750 TUNNEL LINERS	10/01/83	-	05/16/84	05/16/84A	08/15/84	08/23/84A	11/16/84	03/31/85A	N/A	-	-	-
A760 SIGNING	02/22/84	-	06/30/84	02/23/85A	08/01/84	03/29/85A	02/22/85	06/01/85F	04/18/85	08/01/85F	43	15
A795 UPS	01/10/85	-	-	04/15/85F	-	05/15/85F	-	06/30/85F	-	-	-	-

N/A = Not Applicable

NOTE: FINAL SUBMITTAL AND BID DOCUMENTS BASELINE SCHEDULE DATE COLUMNS ARE FROM THE APPROVED BASELINE SCHEDULE (1/23/85).

*SEE EXCEPTION REPORT