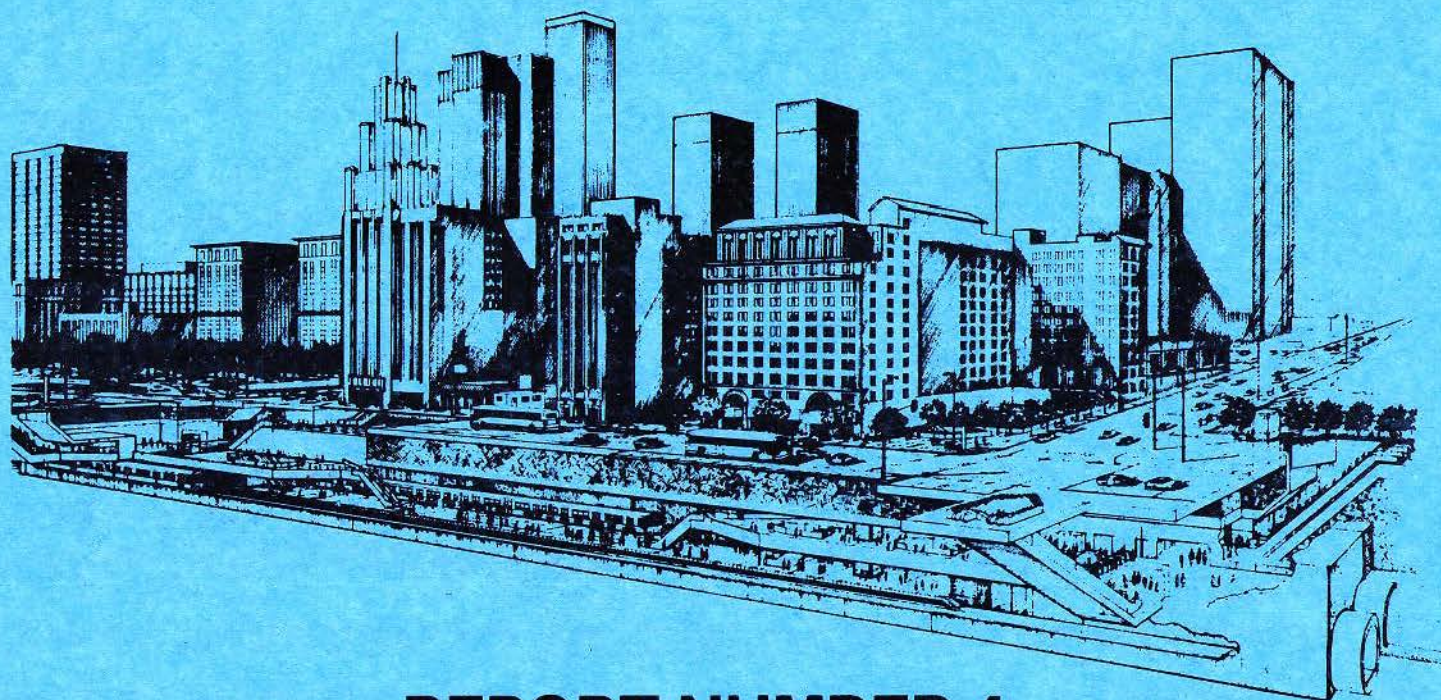


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1984



LOS ANGELES **METRO RAIL** PROJECT

MONTHLY CONTRACT PERFORMANCE REPORT



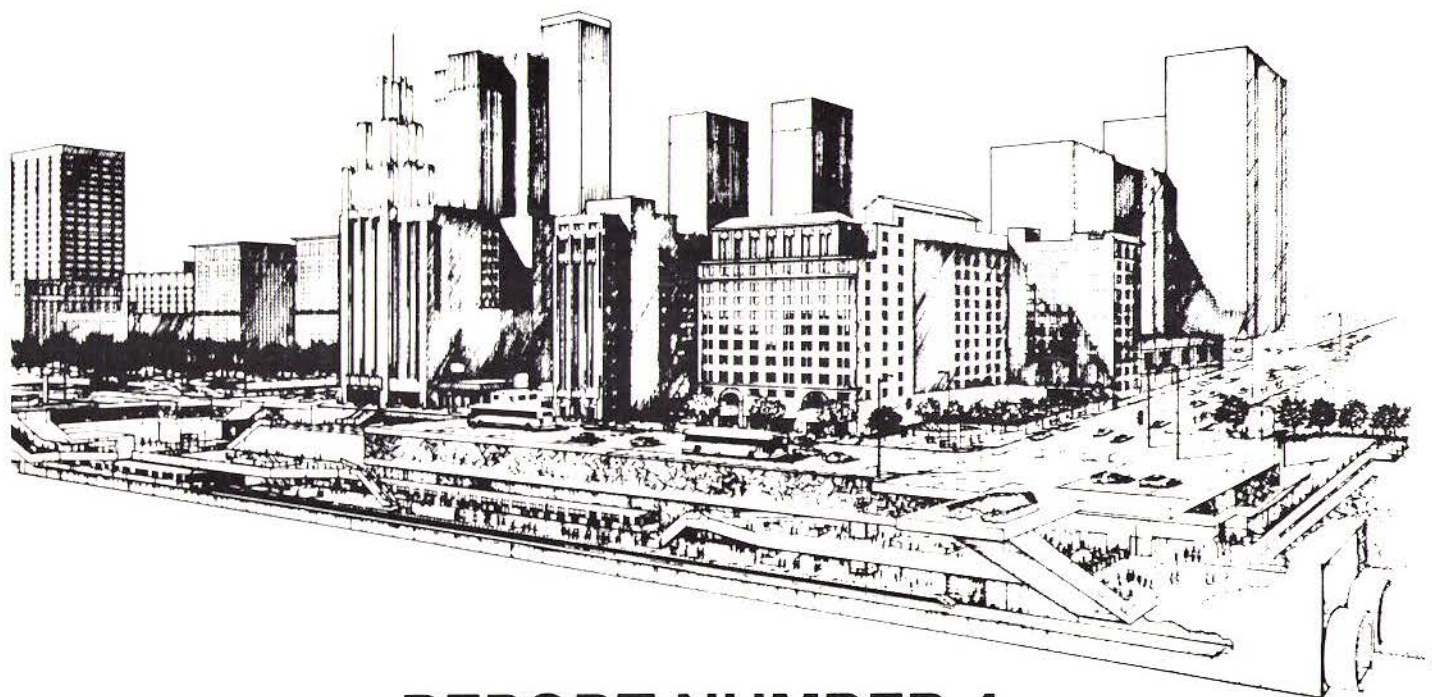
REPORT NUMBER 4
OCTOBER 1984

PDCD

A JOINT VENTURE OF THE RALPH M. PARSONS COMPANY, DILLINGHAM CONSTRUCTION, INC. AND DE LEUW, CATHER & COMPANY



LOS ANGELES **METRO RAIL** PROJECT MONTHLY CONTRACT PERFORMANCE REPORT



**REPORT NUMBER 4
OCTOBER 1984**

PDCD

A JOINT VENTURE OF THE RALPH M. PARSONS COMPANY, DILLINGHAM CONSTRUCTION, INC. AND DE LEUW, CATHER & COMPANY



LOS ANGELES METRO RAIL

CONTRACT PERFORMANCE REPORT

PDCD

PERIOD October 1984

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FOREWORD

This fourth monthly Contract Performance Report covers work activities for the reporting month of October 1984, covering the period from October 1 through October 26.



LOS ANGELES METRO RAIL

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I. CONSTRUCTION MANAGER'S SUMMARY STATEMENT

Work activities in October concentrated on continued construction package and sequence planning for MOS-1, utility construction planning and permit coordination, testing of the cost Control system on TRACS, preparation of draft procedures, continued constructibility reviews, and further build up of the CM staff to meet the growing project requirements.

During October, recommendations were developed on MOS-1 construction packaging and sequencing from Union Station to the Wilshire and Alvarado Station. Discussions and meetings with the RTD and MRTC followed and refinements are being made to accommodate several of constraints. During November, the sequencing and packaging of the yard construction will be prepared and reviewed with MRTC for submittal to RTD.

Recommendations on instrumentation programming and responsibilities were presented. The Preconstruction Survey Specialist joined the staff at the end of October and is undergoing preparation to support the OCIP.

The subject of Contractor Quality Control was raised during the month to determine if it is to be imposed on construction contractors. Further discussion of its applicability is expected during November.

During October, 8 positions were filled, bringing the total staff to 48 (Three on a part time basis). Of the newly filled positions, 4 came from subcontractors. The current staff mix by joint venture/associate subcontractors is summarized below:

<u>Company</u>	<u>Staff Level</u>
Parsons	19
Dillingham Construction	6
De Leuw, Cather	9
Better Personnel Employment Services	6
Construction Control Services Corp.	2
Dames & Moore	1
Hayakawa Associates	1
Jenkins, Gales & Martinez, Inc.	1
Martin & Huang International	2
Vanir Construction Management, Inc.	1
Total	48

Parsons-Dillingham-De Leuw, Cather



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Within this staff, the minority goal of 17% was exceeded by 11%, an increase of 1% over the previous period. The women goal of 3% was exceeded by 16%, an increase of 4% over September.

The DBE goal of 17% was underrun by 1% in October, an increase of 1% over last month. Cumulative DBE expenditures are 5% below target. This shortfall is due to the slow start up of subcontractors. The percentage participation has been increasing each month, and the target should be reached in December.

The WBE goal was exceeded by 2% in September, bringing the cumulative total to our goal of 3%.

During October, 11 constructibility reviews were completed: 7 were completed on schedule, 2 were not completed within schedule, and 2 were late due either to prior agreement with the RTD or to the need to call on additional expertise for the review. The 2 reviews submitted after the scheduled due date were 1 and 3 days late, respectively, because of the need to accommodate other priorities.

Comments on the criteria and the standard and directive drawings were submitted as scheduled. MOS-1 facility contracts reviewed during the month included: A112 = 85%, A115 = 60%, A130 = 30%, and A142 Revised = 85%. Two additional reviews were submitted in October after the period cutoff date, and no reviews were in progress at month end.

Four draft procedures were submitted to the RTD for review during October, leaving only the Configuration Control procedure outstanding.

The TRACS installation was operational most of time during October, and we are continuing to work with RTD to bring the system up to a high reliability level. Training on the basic budget and funding modules was completed. Test data has been initially entered into TRACS, but no reports are yet being prepared on the system.

The 330-line printer had not arrived by the end of the monthly reporting period but it was installed prior to issuance of this report. A third color terminal is available to PDCD, pending the delivery of a compatible controller and graphics printer.

The second PDCD Joint-Venture Board Meeting, with RTD representatives in attendance was held on October 5.

Parsons-Dillingham-De Leuw, Cather



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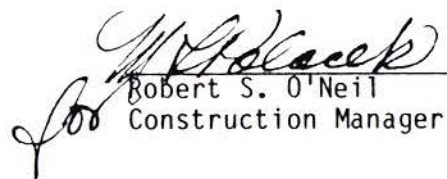
PERIOD October 1984

The proposed downtown PDCD office at 600 South Spring Street was approved at the end of October, and negotiations for the lease are commencing.

PDCD experienced a cost underrun of \$192,000 in October, bringing the cumulative underrun to \$676,000. Staffing is increasing in response to the expanding project requirements; however, several subcontractor positions remain open because of delays in their being able to provide qualified personnel.

During November, PDCD expects to finalize the MOS-1 construction packaging and sequencing, test-load TRACS with the A114 contract, submit the final procedures manuals following RTD review, continue to promote DEB/WBE contractors for Metro Rail construction, expand the community relations contacts in preparation for construction, continue design unit and utility constructibility reviews, prepare the CM operations mobilization plan for Construction for the current AWP, and provide any necessary further comments on the early bid documents.

The role and responsibility of the Contract Administrator in construction work will be defined by the RTD, and its input will be incorporated into the Resident Engineer Manual and Procurement Procedures Manual.


Robert S. O'Neil
Construction Manager

Parsons-Dillingham-De Leuw, Cather



LOS ANGELES METRO RAIL
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II. MANPOWER PERFORMANCE

Project staffing increased, as indicated below, by 8 during October, bring the assigned total to 48, 3 of which are parttime positions. Figure 1 gives the status of planned personnel versus actual as of October 26, 1984.

Added personnel: .

East Zone Construction Manager
Project Accountant
Preconstruction Survey Coordinator
Lead Utility Engineer
Utility Engineer
Senior Secretary
Lead Mechanical Engineer
Geotechnical Engineering Specialist

A total of 7,680 manhours was expended during October, producing an equivalent manpower of 48 persons (see Figure 2).



LOS ANGELES METRO RAIL
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Figure I - Construction Managerial Manpower Status
Roster Count 10/26/84

<u>Position</u>	<u>Planned</u>	<u>Actual</u>	<u>Variance</u>	
<u>Management</u>				
Construction Manager	1	1	-	
Secretarial/Word Processing	12	10	(2)	
Subtotal	13	11	(2)	
<u>Administration and Staff Support</u>				
DCM	1	1	-	
Manager, Project Administration	1	1	-	
Office Manager	1	1	-	
Senior Accountant	1	1	-	
Personnel Administrator	1	1	-	
Manager, Safety	1	1	-	
Manager, Quality Assurance	1	1	-	
Manager, Community Relations	1	1	-	
EEO Administrator	1	1	-	
EEO Assistant Administrator	1	0	(1)	
Labor Relations Advisor		(As Required)		Part-time
Subtotal	10	9	(1)	
<u>Engineering Services/Project Controls</u>				
DCM	1	1	-	
Manager, Project Controls	1	1	-	
Lead Estimator	1	0	(1)	
Estimator	1	0	(1)	
Lead Cost Engineer/Analyst	1	1	-	
Cost Engineer/Analyst	1	1	-	
Lead Planner/Scheduler	1	1	-	
Sr. Planner Scheduler	1	1	-	
Lead Document Control Specialist	1	1	-	
Lead Change Control Analyst	1	0	(1)	



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Figure 1 (Contd)

<u>Position</u>	<u>Planned</u>	<u>Actual</u>	<u>Variance</u>	
<u>Engineering Services/Project Controls (Contd)</u>				
Manager, Contracts/Procurement	1	1	-	
Contract Administrator	1	1	-	
Procurement Specialist/Inspector	1	1	-	
Manager, Engineering Services	1	1	-	
Lead Geotechnical Engineer	1	1	-	
Lead Electrical Engineer	1	1	-	
Electrical Engineer	1	1	-	
Lead Civil Structural Engineer	1	1	-	
Civil Structural Engineer	1	1	-	
Lead Architect	1	1	-	
Lead Mechanical Engineer	1	1	-	
Mechanical Engineer	1	0	(1)	
Lead Systems Engineer	1	0	(1)	
Systems Engineer	1	0	(1)	
Geotechnical Technician	2	0	(2)	
Geotechnical Engineering Specialist	1	1	-	Part-time
Subtotal	27	19	(8)	
<u>Planning</u>				
DCM	1	1	-	Part-time
<u>Operations</u>				
DCM	1	1	-	
Manager, General Services	1	1	-	
Lead Utilities Engineer	1	1	-	
Utilities Engineer	2	1	(1)	
Chief of Surveys	1	0	(1)	
Surveyors	2	0	(2)	
Lead Traffic Coordinator	1	1	-	
Preconstruction Surveys Coordinator	1	1	-	

Parsons-Dillingham-De Leuw, Cather



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Figure 1 (Contd)

<u>Position</u>	<u>Planned</u>	<u>Actual</u>	<u>Variance</u>
<u>Operations (Contd)</u>			
Lead Environmental Monitoring/Permit Engineer	1	0	(1)
Zone CM	1	1	-
Manager, Systems Integration	1	1	-
Subtotal	13	8	(5)
Total	64	48	(16)

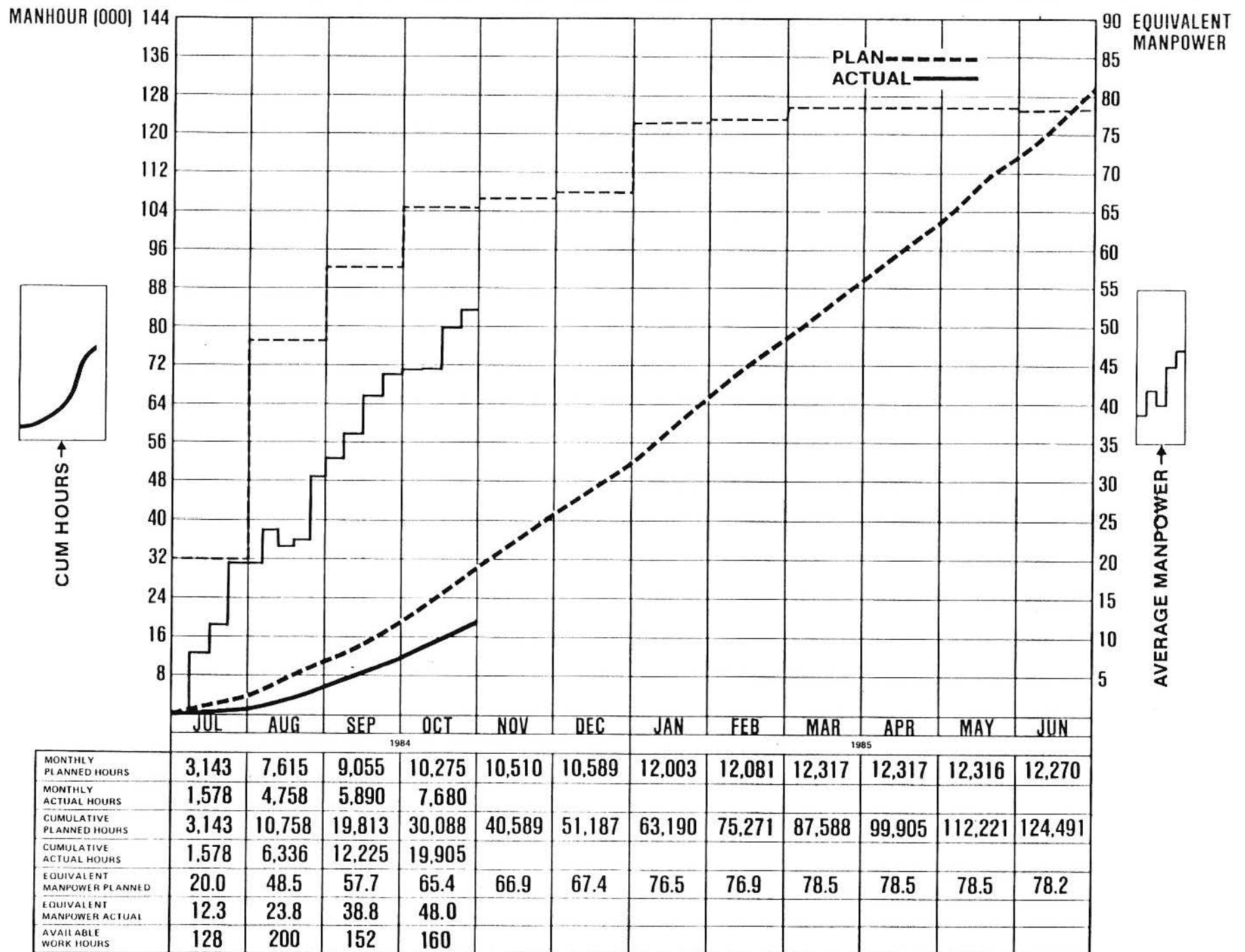


FIGURE 2 - PDCD MANPOWER STATUS



LOS ANGELES METRO RAIL
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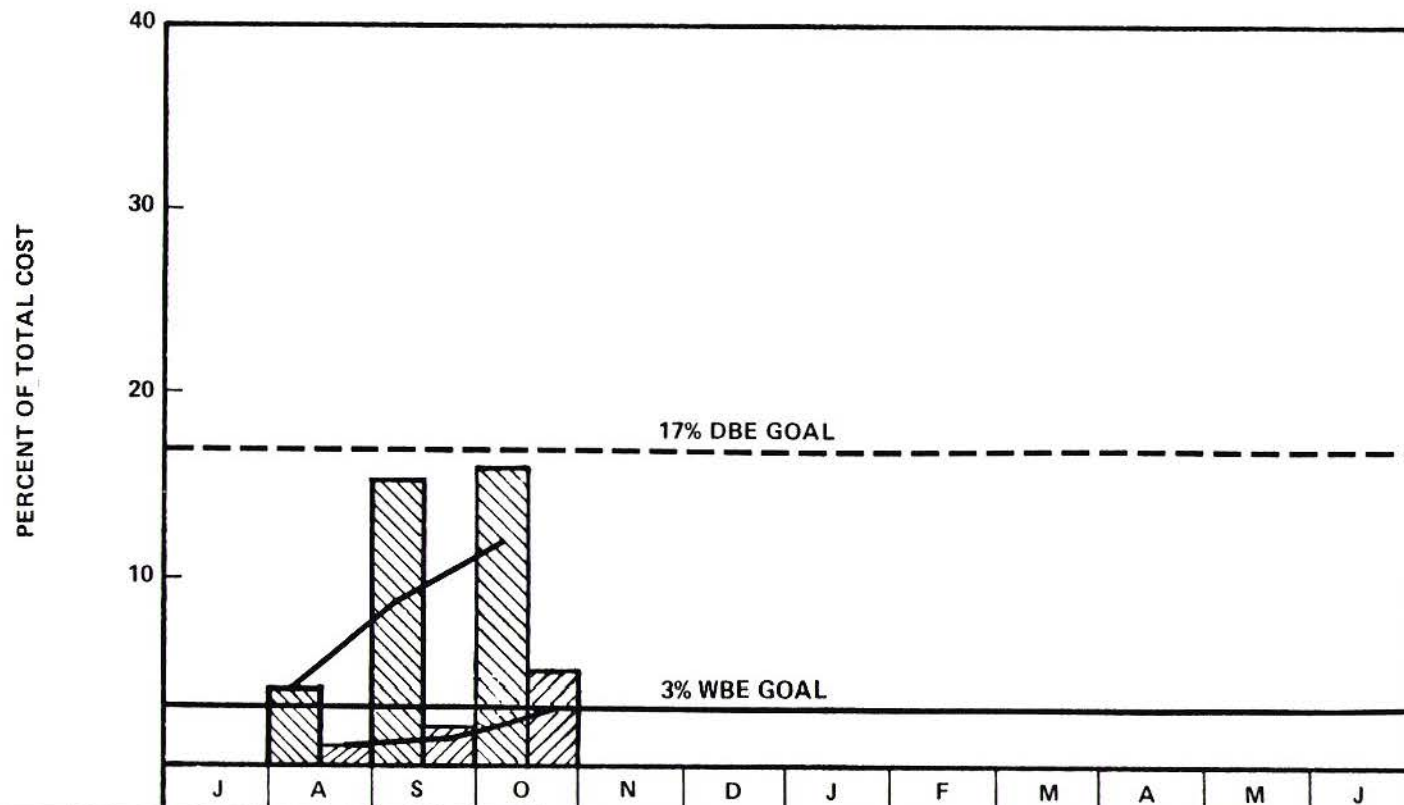
PDCD

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III. EQUAL OPPORTUNITY PERFORMANCE

Of the value of the contract 20% is the goal for DBE/WBE participation: 17% DBE and 3% WBE. Figure 3 indicated that the cumulative percentage of DBE participation is now only 5% below the goal of 17% and increasing monthly. The goal should be met in December. The goal of involvement on WBE has been met.

The affirmative action goals for minorities and women continue to be surpassed as indicated on Figure 4.



	J	A	S	O	N	D	J	F	M	A	M	J
TOTAL COST (\$000)	101	227	292	363								
DBE COST	0	10	45	59								
WBE COST	0	2	8	18								
DBE %	0	4	15	16								
WBE %	0	1	2	5								
MONTHLY VARIANCE DBE %	0	[13]	[2]	[1]								
MONTHLY VARIANCE WBE %	0	[2]	[1]	2								
CUMULATIVE VARIANCE DBE %	0	[13]	[9]	[5]								
CUMULATIVE VARIANCE WBE %	0	[2]	[2]	0								

LEGEND

DBE



CUMULATIVE



WBE



FIGURE 3 - WBE/DBE ANALYSIS

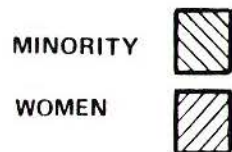
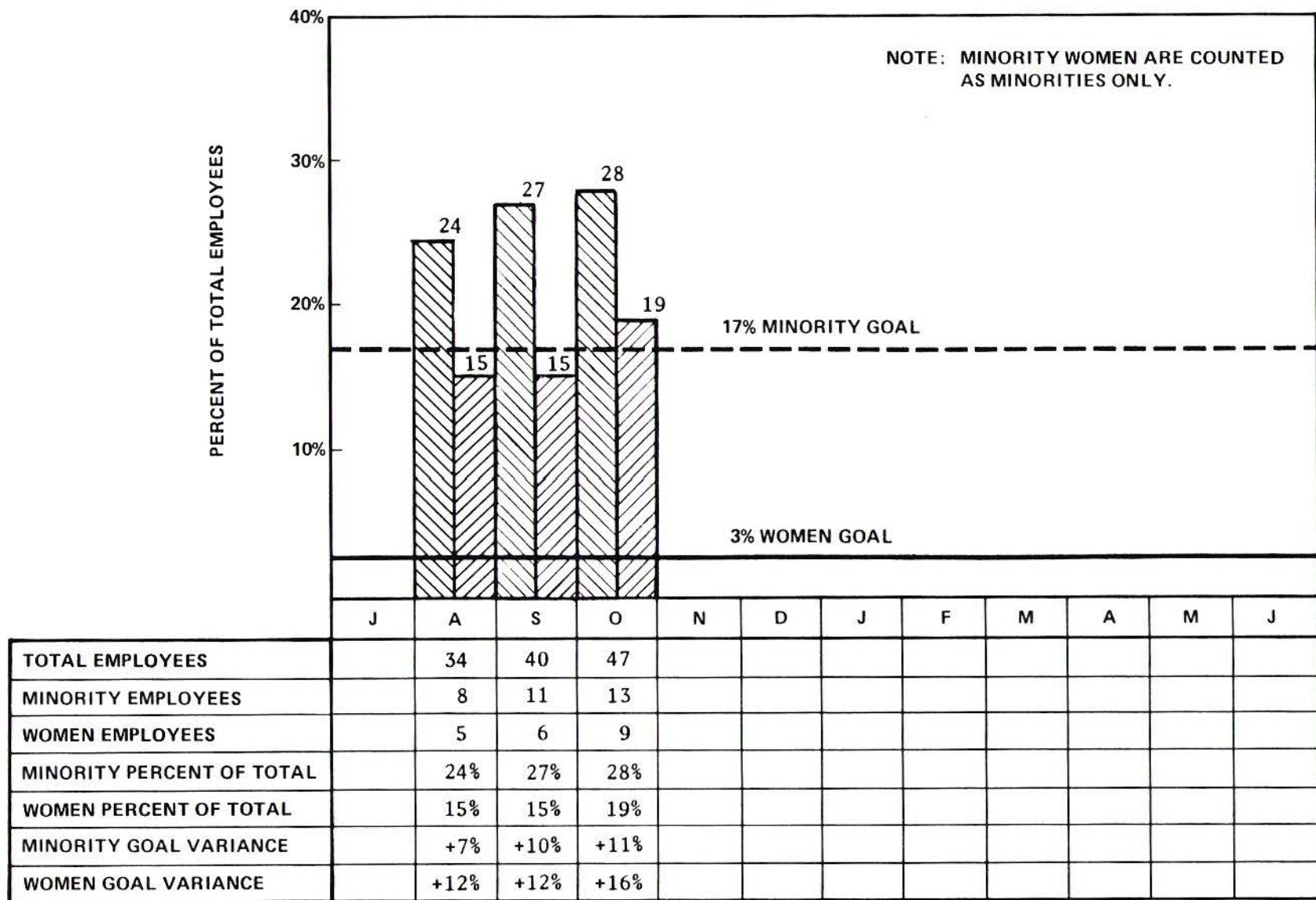


FIGURE 4 - PRECONSTRUCTION AFFIRMATIVE ACTION ANALYSIS



LOS ANGELES METRO RAIL

CONTRACT PERFORMANCE REPORT

PDCD

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IV. SCHEDULE PERFORMANCE

Five design packages were received in October for review. Comments were submitted to RTD on 11 packages. Seven of the submittals responded to packages received in September, and one for a submittal made in August. There were no reviews in progress as of month end. All submittals thus far have met RTD's priority schedules, although all packages have not been returned within the scheduled review period. At RTD's request, we have occasionally postponed some reviews to meet the requirements of MOS-1 (Figure 5).

Completed on schedule	7
Not completed within schedule*	2
Late per agreement with RTD	1
Late (sent to Wash., D.C. due to unavailability of in-house architect)	1
Scheduled, not received from MRTC	<u>2</u>
Total	13

*Contract 130 was delivered on October 4, 3 days late.
Contract 240 was delivered on October 9, 1 day late.

Parsons-Dillingham-De Leuw, Cather



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Figure 5 - Design Package Review Schedule
October and November 1984

Contract No.	Planned % / Date	Actual Recvd / Out	Remarks/Action	November Look-Ahead Planned Review/ Date
<u>MOS-1</u>				
112	85% 10/15	10/16 10/31	Review completed	- -
115	60% 9/25	10/1 10/10	Review completed	85% 11/5
130	60% 9/14	9/17 10/4	Review completed	- -
135	- -	- -	--	85% 11/30
136	- -	- -	--	85% 11/30
142	85% 9/28	10/1 10/5	Review completed	100% 11/15
165	- -	- -	--	85% 11/19
167	- -	- -	--	85% 11/19
170	- -	- -	--	100% 11/30
170A	85% 10/21	- -	Not received	- -
187	- -	- -	--	85% 11/21
610	60% 9/12	9/17 10/8	Review completed	- -
611	- -	- -	--	85% 11/6
613	60% 9/19	9/20 10/8	Review completed	- -
614	- -	- -	--	85% 11/5
618	30% 10/10	10/15 10/29	Review completed	- -
620	60% 9/16	9/16 10/19	Review completed	- -
671-678	- -	- -	--	85% 11/5
710	- -	- -	--	100% 11/1
720	85% 10/23	- -	Not received	- -
745	30% 8/30	8/31 10/23	Review completed	- -
760	85% -	9/26 10/8	Review completed	- -

Comments on Criteria, Standard
and Directive Drawings

10/16

Review of "Industry Review" Packages,
Systemwide

Early November

Parsons-Dillingham-De Leuw, Cather



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Figure 5 (Contd)

Contract No.	Planned		Actual		Remarks/Action	November Look-Ahead	
	%	Date	Recvd	Out		Planned Review/	Date
<u>Follow-on</u>							
220	-	-	-	-	--		
240	60%	9/17	9/18	10/9	Review completed	85%	11/30
242	-	-	-	-	--	85%	11/15
245	-	-	-	-	--	85%	11/15
247	-	-	-	-	--	85%	11/15
250	-	-	-	-	--	85%	11/15
252	-	-	-	-	--	60%	11/12
267	-	-	-	-	--	85%	11/12
350	60%	9/13	9/17	10/3	Review completed	60%	11/12
410	-	-	-	-	--	-	-
415	-	-	-	-	--	85%	11/29
425	-	-	-	-	--	60%	11/2
427	-	-	-	-	--	85%	11/19
430	-	-	-	-	--	85%	11/19
445	60%	10/4	10/8	10/23	Review completed	85%	11/30
						-	-

CM SERVICES IN-HOUSE SCHEDULE

DESCRIPTION	RESPON- SIBILITY	SEPTEMBER				OCTOBER				NOVEMBER					DECEMBER					REMARKS
		7	14	21	28	5	12	19	26	2	9	16	23	30	7	14	21	28	4	
C. M. PROCEDURES:																				
1) C.M. ORGANIZATION				●						▲										
2) ESTABLISH O&M OF DOWNTOWN OFFICE				●							△									
3) MANAGEMENT OF CONST. CHANGES								●						*						AWAITING RTD
4) QUALITY ASSURANCE				●										*						ON HOLD PENDING RESO- LUTION CQC ISSUE
5) PERMITS & LICENSES				●							△									
6) COORD. BETWEEN CONTRACTORS				●							△									
7) SAFETY MONITORING					●								△							
8) COORDINATE UTILITIES & TRAFFIC				●							△									
9) CONFIGURATION CONTROL										○				△						
10) SAFETY PLAN							●						△							
11) RESIDENT ENGINEERS MANUAL								●						*						AWAITING RTD COMMENTS & RESOLUTION OF CA ISSUE
12) STAFFING PLAN									●				△							AWAITING RTD
13) COST & SCHEDULING									●				△							AWAITING RTD
14) OTHERS AS REQUIRED BY CM								●												INCLUDED WITH OTHER MANUALS

SCHED. ACTUAL



DRAFT TO RTD
FINAL SUBMITTAL TO RTD

NOTE: (*) FINAL ISSUE TO RTD
TWO WEEKS AFTER COMMENTS RECEIVED
AND/OR POLICY ISSUE RESOLUTION

CM SERVICES IN-HOUSE SCHEDULE

DESCRIPTION	RESPON- SIBILITY	AUGUST					SEPTEMBER				OCTOBER				NOVEMBER					REMARKS
		3	10	17	24	31	7	14	21	28	5	12	19	26	2	9	16	23	30	
<u>STUDIES</u>																				
o Contract Packaging						◆														
o Tunnel Liners						◆														
o Std. "Invitation to Bid"							◆													
o Construction Readiness Schedule							◆													
o Construction Readiness Checklist																				
<u>ENGR'G DESIGN TASK FORCE</u>																				
o Review/Comment (Criteria, Design Standards, Directive Dwg, Constr. Review)																				

SCHED

ACTUAL



Received from SCRTD

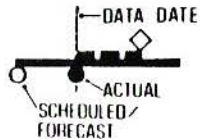


Submittal to SCRTD

**MINIMUM OPERABLE SEGMENT (PHASE I)
DESIGN, ESTIMATE AND BID DOCUMENT REVIEW SCHEDULE**

CONTRACT NUMBER		DESCRIPTION	RESPON-SIBILITY	TASK	SCHED.	SEPTEMBER				OCTOBER				NOVEMBER					DECEMBER				
DESIGN	CONST.					7	14	21	28	5	12	19	26	2	9	16	23	30	7	14	21	28	4
A100	A112	SERVICE AREA AND MAIN SHOP BUILDING		DESIGN REVIEW	ACTUAL / FORECAST																		
					DATE LINE																		
				COST ESTIMATE REVIEW	ACTUAL / FORECAST																		
					DATE LINE																		
	A114	MAINTENANCE OF WAY (MOW) SHOP BUILDING		DESIGN REVIEW	ACTUAL / FORECAST																		
					DATE LINE																		
				COST ESTIMATE REVIEW	ACTUAL / FORECAST																		
					DATE LINE																		
	A115	STORAGE YARD		DESIGN REVIEW	ACTUAL / FORECAST																		
					DATE LINE																		
				COST ESTIMATE REVIEW	ACTUAL / FORECAST																		
					DATE LINE																		
	A130	YARD LEADS AND TRANSFER ZONE		DESIGN REVIEW	ACTUAL / FORECAST																		
					DATE LINE																		
				COST ESTIMATE REVIEW	ACTUAL / FORECAST																		
					DATE LINE																		
A135	A131	UNION STATION TRACK RELOCATION (COMBINED WITH A135)		DESIGN REVIEW	ACTUAL / FORECAST																		
					DATE LINE																		
				COST ESTIMATE REVIEW	ACTUAL / FORECAST																		
					DATE LINE																		
	A133	UNION STATION REPLACEMENT BAGGAGE HANDLING FACILITIES		DESIGN REVIEW	ACTUAL / FORECAST																		
					DATE LINE																		

LEGEND



REVIEW STATUS

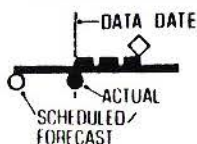
- 30%
- 60%
- △ 85%
- ◇ 100%
- ◇ SUBMITTAL TO RTD

- ⊕ ADVERTISE FOR BIDS
- ⊕ NOTICE TO PROCEED
- PDCD REVIEW PERIOD
- MRTC DESIGN SCHEDULE

**MINIMUM OPERABLE SEGMENT (PHASE I)
DESIGN, ESTIMATE AND BID DOCUMENT REVIEW SCHEDULE**

CONTRACT NUMBER		DESCRIPTION	RESPON-SIBILITY	TASK	SCHED.	SEPTEMBER				OCTOBER				NOVEMBER					DECEMBER				
DESIGN	CONST.					7	14	21	28	5	12	19	26	2	9	16	23	30	7	14	21	28	4
A135	A135	UNION STATION AND CROSSOVER STAGE I		DESIGN REVIEW	ACTUAL / FORECAST																		
					BASELINE																		
				COST ESTIMATE REVIEW	ACTUAL / FORECAST																		
	A136	UNION STATION AND CROSSOVER STAGE II		DESIGN REVIEW	ACTUAL / FORECAST																		
					BASELINE																		
				COST ESTIMATE REVIEW	ACTUAL / FORECAST																		
A137	A137	CENTRAL CONTROL FACILITY (LOCATION TO BE DETERMINED)		DESIGN REVIEW	ACTUAL / FORECAST																		
					BASELINE																		
				COST ESTIMATE REVIEW	ACTUAL / FORECAST																		
A140	A140	LINE SECTION, UNION STATION TO 7TH/FLOWER; CIVIC CENTER STATION & 5TH/HILL STATION STAGE I		DESIGN REVIEW	ACTUAL / FORECAST																		
					BASELINE																		
				COST ESTIMATE REVIEW	ACTUAL / FORECAST																		
	A142	EXCAVATION AND SUPPORT CIVIC CENTER MAIN BOX		DESIGN REVIEW	ACTUAL / FORECAST																		
					BASELINE																		
				COST ESTIMATE REVIEW	ACTUAL / FORECAST																		
A147	A147	CIVIC CENTER STATION, STAGE II		DESIGN REVIEW	ACTUAL / FORECAST																		
					BASELINE																		
				COST ESTIMATE REVIEW	ACTUAL / FORECAST																		

LEGEND



REVIEW STATUS

- 30%
- 60%
- △ 85%
- ◇ 100%

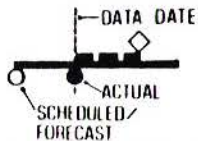
◇ SUBMITTAL TO RTD

- ⊕ ADVERTISE FOR BIDS
- ⊗ NOTICE TO PROCEED
- PDOD REVIEW PERIOD
- MRTC DESIGN SCHEDULE

**MINIMUM OPERABLE SEGMENT (PHASE I)
DESIGN, ESTIMATE AND BID DOCUMENT REVIEW SCHEDULE**

CONTRACT NUMBER		DESCRIPTION	RESPON- SIBILITY	TASK	SCHED.	SEPTEMBER				OCTOBER				NOVEMBER					DECEMBER				
DESIGN	CONST.					7	14	21	28	5	12	19	26	2	9	16	23	30	7	14	21	28	4
A140	A157	5TH/HILL STATION, STAGE II		DESIGN REVIEW	ACTUAL / FORECAST BASE LINE																		
				COST ESTIMATE REVIEW	ACTUAL / FORECAST BASE LINE																		
				BID DOCUMENT REVIEW	ACTUAL / FORECAST BASE LINE																		
A165	A165	7TH/FLOWER STATION STAGE I		DESIGN REVIEW	ACTUAL / FORECAST BASE LINE																		
				COST ESTIMATE REVIEW	ACTUAL / FORECAST BASE LINE																		
				BID DOCUMENT REVIEW	ACTUAL / FORECAST BASE LINE																		
	A167	7TH/FLOWER STATION STAGE II		DESIGN REVIEW	ACTUAL / FORECAST BASE LINE																		
				COST ESTIMATE REVIEW	ACTUAL / FORECAST BASE LINE																		
				BID DOCUMENT REVIEW	ACTUAL / FORECAST BASE LINE																		
A170	A170	WILSHIRE/ALVARADO STATION, STAGE I LINE SECTION 7TH/FLOWER TO WILSHIRE/ALVARADO		DESIGN REVIEW	ACTUAL / FORECAST BASE LINE																		
				COST ESTIMATE REVIEW	ACTUAL / FORECAST BASE LINE																		
				BID DOCUMENT REVIEW	ACTUAL / FORECAST BASE LINE																		
	A187	WILSHIRE/ALVARADO STATION STAGE II		DESIGN REVIEW	ACTUAL / FORECAST BASE LINE																		
				COST ESTIMATE REVIEW	ACTUAL / FORECAST BASE LINE																		
				BID DOCUMENT REVIEW	ACTUAL / FORECAST BASE LINE																		
				DESIGN REVIEW	ACTUAL / FORECAST BASE LINE																		
				COST ESTIMATE REVIEW	ACTUAL / FORECAST BASE LINE																		
				BID DOCUMENT REVIEW	ACTUAL / FORECAST BASE LINE																		

LEGEND



REVIEW STATUS

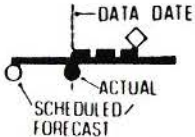
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- ◇ SUBMITTAL TO RTD

- ⊕ ADVERTISE FOR BIDS
- ⊗ NOTICE TO PROCEED
- ▬ PDCD REVIEW PERIOD
- ▬ MRTC DESIGN SCHEDULE

FOLLOW-ON SEGMENTS (PHASES 2, 3 & 4)
(DESIGN, ESTIMATE AND BID DOCUMENT REVIEW SCHEDULE)

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REVIEW STATUS

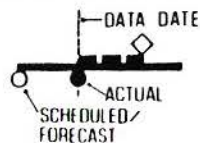
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 SUBMITTAL TO RTD

- ⊕ ADVERTISE FOR BIDS
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FOLLOW-ON SEGMENTS (PHASES 2, 3 & 4)
(DESIGN, ESTIMATE AND BID DOCUMENT REVIEW SCHEDULE)

CONTRACT NUMBER		DESCRIPTION	RESPON-SIBILITY	TASK	SCHD.	SEPTEMBER				OCTOBER				NOVEMBER					DECEMBER				
DESIGN	CONST.					7	14	21	28	5	12	19	26	2	9	16	23	30	7	14	21	28	4
A240	A240	WILSHIRE/CRENSHAW STATION STAGE I		DESIGN REVIEW	ACTUAL / FORECAST																		
					BASELINE																		
				COST ESTIMATE REVIEW	ACTUAL / FORECAST																		
		BASELINE																					
		BID DOCUMENT REVIEW	ACTUAL / FORECAST																				
		BASELINE																					
	A242	WILSHIRE/CRENSHAW STATION STAGE II		DESIGN REVIEW	ACTUAL / FORECAST																		
					BASELINE																		
				COST ESTIMATE REVIEW	ACTUAL / FORECAST																		
		BASELINE																					
		BID DOCUMENT REVIEW	ACTUAL / FORECAST																				
		BASELINE																					
A245	A245	WILSHIRE/LA BREA STATION STAGE I		DESIGN REVIEW	ACTUAL / FORECAST																		
					BASELINE																		
				COST ESTIMATE REVIEW	ACTUAL / FORECAST																		
		BASELINE																					
		BID DOCUMENT REVIEW	ACTUAL / FORECAST																				
		BASELINE																					
	A247	WILSHIRE/LA BREA STATION STAGE II		DESIGN REVIEW	ACTUAL / FORECAST																		
					BASELINE																		
				COST ESTIMATE REVIEW	ACTUAL / FORECAST																		
		BASELINE																					
		BID DOCUMENT REVIEW	ACTUAL / FORECAST																				
		BASELINE																					
A250	A250	WILSHIRE/FAIRFAX STATION, STAGE I LINE SECTION - WILSHIRE/ LA BREA TO FAIRFAX/ BEVERLY STATION		DESIGN REVIEW	ACTUAL / FORECAST																		
					BASELINE																		
				COST ESTIMATE REVIEW	ACTUAL / FORECAST																		
		BASELINE																					
		BID DOCUMENT REVIEW	ACTUAL / FORECAST																				
		BASELINE																					
	A267	WILSHIRE/FAIRFAX STATION STAGE II		DESIGN REVIEW	ACTUAL / FORECAST																		
					BASELINE																		
				COST ESTIMATE REVIEW	ACTUAL / FORECAST																		
		BASELINE																					
		BID DOCUMENT REVIEW	ACTUAL / FORECAST																				
		BASELINE																					

LEGEND



REVIEW STATUS

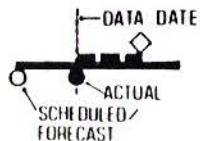
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- ⊕ ADVERTISE FOR BIDS
- ⊕ NOTICE TO PROCEED
- ▬ PDCA REVIEW PERIOD
- ▬ MRTC DESIGN SCHEDULE

FOLLOW-ON SEGMENTS (PHASES 2, 3 & 4)
(DESIGN, ESTIMATE AND BID DOCUMENT REVIEW SCHEDULE)

CONTRACT NUMBER		DESCRIPTION	RESPON- SIBILITY	TASK	SCHED.	SEPTEMBER				OCTOBER				NOVEMBER					DECEMBER				
DESIGN	CONST.					7	14	21	28	5	12	19	26	2	9	16	23	30	7	14	21	28	4
A275	A275	FAIRFAX/BEVERLY STATION STAGE I		DESIGN REVIEW	ACTUAL / FORECAST DATE LINE																		
				COST ESTIMATE REVIEW	ACTUAL / FORECAST DATE LINE																		
				BID DOCUMENT REVIEW	ACTUAL / FORECAST DATE LINE																		
	A277	FAIRFAX/BEVERLY STATION STAGE II		DESIGN REVIEW	ACTUAL / FORECAST DATE LINE																		
				COST ESTIMATE REVIEW	ACTUAL / FORECAST DATE LINE																		
				BID DOCUMENT REVIEW	ACTUAL / FORECAST DATE LINE																		
A310	A320	LINE SECTION - FAIRFAX/ BEVERLY TO FAIRFAX/ SANTA MONICA STATION & FAIRFAX/SANTA MONICA STATION, STAGE I		DESIGN REVIEW	ACTUAL / FORECAST DATE LINE																		
				COST ESTIMATE REVIEW	ACTUAL / FORECAST DATE LINE																		
				BID DOCUMENT REVIEW	ACTUAL / FORECAST DATE LINE																		
	A327	FAIRFAX/SANTA MONICA STATION STAGE II		DESIGN REVIEW	ACTUAL / FORECAST DATE LINE																		
				COST ESTIMATE REVIEW	ACTUAL / FORECAST DATE LINE																		
				BID DOCUMENT REVIEW	ACTUAL / FORECAST DATE LINE																		
	A330	LINE SECTION FAIRFAX/SANTA MONICA TO HOLLYWOOD/CAHUENGA, LA BREA/SUNSET STATION STAGE I		DESIGN REVIEW	ACTUAL / FORECAST DATE LINE																		
				COST ESTIMATE REVIEW	ACTUAL / FORECAST DATE LINE																		
				BID DOCUMENT REVIEW	ACTUAL / FORECAST DATE LINE																		
	A347	LA BREA/SUNSET STATION STAGE II		DESIGN REVIEW	ACTUAL / FORECAST DATE LINE																		
				COST ESTIMATE REVIEW	ACTUAL / FORECAST DATE LINE																		
				BID DOCUMENT REVIEW	ACTUAL / FORECAST DATE LINE																		

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REVIEW STATUS

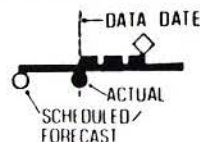
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- ⊕ NOTICE TO PROCEED
- ▬ PDCD REVIEW PERIOD
- ▬ MRTC DESIGN SCHEDULE

FOLLOW-ON SEGMENTS (PHASES 2, 3 & 4)
(DESIGN, ESTIMATE AND BID DOCUMENT REVIEW SCHEDULE)

CONTRACT NUMBER		DESCRIPTION	RESPON-SIBILITY	TASK	SCH.ED.	SEPTEMBER				OCTOBER				NOVEMBER					DECEMBER				
DESIGN	CONST.					7	14	21	28	5	12	19	26	2	9	16	23	30	7	14	21	28	4
A350	A350	HOLLYWOOD/CAHUENGA STATION STAGE I		DESIGN REVIEW	ACTUAL / FORECAST																		
					BAS. LINE																		
				COST ESTIMATE REVIEW	ACTUAL / FORECAST																		
	A352	HOLLYWOOD/CAHUENGA STATION STAGE II			BAS. LINE																		
				COST ESTIMATE REVIEW	ACTUAL / FORECAST																		
					BAS. LINE																		
A410	A410	LINE BETWEEN HOLLYWOOD/CAHUENGA AND UNIVERSAL CITY		DESIGN REVIEW	ACTUAL / FORECAST																		
					BAS. LINE																		
				COST ESTIMATE REVIEW	ACTUAL / FORECAST																		
					BAS. LINE																		
				COST ESTIMATE REVIEW	ACTUAL / FORECAST																		
					BAS. LINE																		
A415	A415	HOLLYWOOD BOWL STATION (CONSTRUCTION DEFERRED)		DESIGN REVIEW	ACTUAL / FORECAST																		
					BAS. LINE																		
				COST ESTIMATE REVIEW	ACTUAL / FORECAST																		
					BAS. LINE																		
				COST ESTIMATE REVIEW	ACTUAL / FORECAST																		
					BAS. LINE																		
A425	A425	UNIVERSAL CITY STATION STAGE I		DESIGN REVIEW	ACTUAL / FORECAST																		
					BAS. LINE																		
				COST ESTIMATE REVIEW	ACTUAL / FORECAST																		
	A427	UNIVERSAL CITY STATION STAGE II			BAS. LINE																		
				COST ESTIMATE REVIEW	ACTUAL / FORECAST																		
					BAS. LINE																		

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REVIEW STATUS

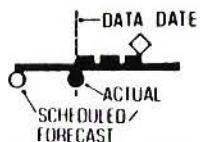
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- ◇ SUBMITTAL TO RTD

- ⊕ ADVERTISE FOR BIDS
- ⊕ NOTICE TO PROCEED
- PCOD REVIEW PERIOD
- MRIC DESIGN SCHEDULE

FOLLOW-ON SEGMENTS (PHASES 2, 3 & 4)
(DESIGN, ESTIMATE AND BID DOCUMENT REVIEW SCHEDULE)

CONTRACT NUMBER		DESCRIPTION	RESPON-SIBILITY	TASK	SCHD.	SEPTEMBER				OCTOBER				NOVEMBER					DECEMBER				
DESIGN	CONST.					7	14	21	28	5	12	19	26	2	9	16	23	30	7	14	21	28	4
A430	A430	LINE BETWEEN UNIVERSAL CITY STATION AND NORTH HOLLYWOOD STATION		DESIGN REVIEW	ACTUAL / FORECAST BASELINE																		
				COST ESTIMATE REVIEW	ACTUAL / FORECAST BASELINE																		
				BID DOCUMENT REVIEW	ACTUAL / FORECAST BASELINE																		
A445	A445	NORTH HOLLYWOOD STATION STAGE I		DESIGN REVIEW	ACTUAL / FORECAST BASELINE																		
				COST ESTIMATE REVIEW	ACTUAL / FORECAST BASELINE																		
				BID DOCUMENT REVIEW	ACTUAL / FORECAST BASELINE																		
	A447	NORTH HOLLYWOOD STATION STAGE II		DESIGN REVIEW	ACTUAL / FORECAST BASELINE																		
				COST ESTIMATE REVIEW	ACTUAL / FORECAST BASELINE																		
				BID DOCUMENT REVIEW	ACTUAL / FORECAST BASELINE																		
				DESIGN REVIEW	ACTUAL / FORECAST BASELINE																		
				COST ESTIMATE REVIEW	ACTUAL / FORECAST BASELINE																		
				BID DOCUMENT REVIEW	ACTUAL / FORECAST BASELINE																		
				DESIGN REVIEW	ACTUAL / FORECAST BASELINE																		
				COST ESTIMATE REVIEW	ACTUAL / FORECAST BASELINE																		
				BID DOCUMENT REVIEW	ACTUAL / FORECAST BASELINE																		
				DESIGN REVIEW	ACTUAL / FORECAST BASELINE																		
				COST ESTIMATE REVIEW	ACTUAL / FORECAST BASELINE																		
				BID DOCUMENT REVIEW	ACTUAL / FORECAST BASELINE																		
				DESIGN REVIEW	ACTUAL / FORECAST BASELINE																		
				COST ESTIMATE REVIEW	ACTUAL / FORECAST BASELINE																		
				BID DOCUMENT REVIEW	ACTUAL / FORECAST BASELINE																		

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REVIEW STATUS

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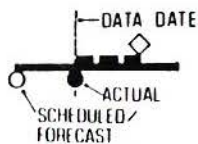
◇ SUBMITTAL TO RTD

- ⊕ ADVERTISE FOR BIDS
- ⊕ NOTICE TO PROCEED
- ▬ PDCO REVIEW PERIOD
- ▬ MRTC DESIGN SCHEDULE

FACILITIES
(DESIGN, ESTIMATE AND BID DOCUMENT REVIEW SCHEDULE)

CONTRACT NUMBER		DESCRIPTION	RESPON- SIBILITY	TASK	SCHED.	SEPTEMBER				OCTOBER				NOVEMBER					DECEMBER				
DESIGN	CONST.					7	14	21	28	5	12	19	26	2	9	16	23	30	7	14	21	28	4
A610	A610	TRACKWORK-MAINLINE TRACKWORK		DESIGN REVIEW	ACTUAL / FORECAST																		
					BASIS LINE																		
				COST ESTIMATE REVIEW	ACTUAL / FORECAST																		
					BASIS LINE																		
				BID DOCUMENT REVIEW	ACTUAL / FORECAST																		
					BASIS LINE																		
A611	A611	TRACKWORK-RUNNING RAIL SPECIFICATIONS		DESIGN REVIEW	ACTUAL / FORECAST																		
					BASIS LINE																		
				COST ESTIMATE REVIEW	ACTUAL / FORECAST																		
					BASIS LINE																		
				BID DOCUMENT REVIEW	ACTUAL / FORECAST																		
					BASIS LINE																		
A613	A613	TRACKWORK-TIMBER TIE SPECIFICATIONS		DESIGN REVIEW	ACTUAL / FORECAST																		
					BASIS LINE																		
				COST ESTIMATE REVIEW	ACTUAL / FORECAST																		
					BASIS LINE																		
				BID DOCUMENT REVIEW	ACTUAL / FORECAST																		
					BASIS LINE																		
A614	A614	TRACKWORK-SPECIAL TRACKWORK DESIGN		DESIGN REVIEW	ACTUAL / FORECAST																		
					BASIS LINE																		
				COST ESTIMATE REVIEW	ACTUAL / FORECAST																		
					BASIS LINE																		
				BID DOCUMENT REVIEW	ACTUAL / FORECAST																		
					BASIS LINE																		
A616	A616	TRACKWORK-DIRECT FIXATION FASTNER SPECIFICATIONS		DESIGN REVIEW	ACTUAL / FORECAST																		
					BASIS LINE																		
				COST ESTIMATE REVIEW	ACTUAL / FORECAST																		
					BASIS LINE																		
				BID DOCUMENT REVIEW	ACTUAL / FORECAST																		
					BASIS LINE																		
A617	A617	TRACKWORK-RAIL WELDING SPECIFICATIONS		DESIGN REVIEW	ACTUAL / FORECAST																		
					BASIS LINE																		
				COST ESTIMATE REVIEW	ACTUAL / FORECAST																		
					BASIS LINE																		
				BID DOCUMENT REVIEW	ACTUAL / FORECAST																		
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REVIEW STATUS

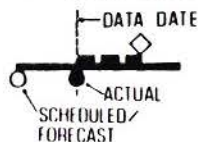
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- ◇ SUBMITTAL TO RTD

- ⊕ ADVERTISE FOR BIDS
- ⊗ NOTICE TO PROCEED
- POCD REVIEW PERIOD
- MRTIC DESIGN SCHEDULE

FACILITIES (DESIGN, ESTIMATE AND BID DOCUMENT REVIEW SCHEDULE)

CONTRACT NUMBER		DESCRIPTION	RESPON-SIBILITY	TASK	SCHD.	SEPTEMBER				OCTOBER				NOVEMBER					DECEMBER				
DESIGN	CONST.					7	14	21	28	5	12	19	26	2	9	16	23	30	7	14	21	28	4
A618	A618	TRACKWORK-YARD TRACKWORK DESIGN		DESIGN REVIEW	ACTUAL / FORECAST BASELINE																		
				COST ESTIMATE REVIEW	ACTUAL / FORECAST BASELINE																		
				BID DOCUMENT REVIEW	ACTUAL / FORECAST BASELINE																		
A710	A710	ESCALATORS		DESIGN REVIEW	ACTUAL / FORECAST BASELINE																		
				COST ESTIMATE REVIEW	ACTUAL / FORECAST BASELINE																		
				BID DOCUMENT REVIEW	ACTUAL / FORECAST BASELINE																		
A720	A720	ELEVATORS		DESIGN REVIEW	ACTUAL / FORECAST BASELINE																		
				COST ESTIMATE REVIEW	ACTUAL / FORECAST BASELINE																		
				BID DOCUMENT REVIEW	ACTUAL / FORECAST BASELINE																		
A740	A740	EMERGENCY, MID-TUNNEL, UNDER PLATFORM FANS- MOTOR-UNITS, DAMPERS, AND SOUND ATTENUATORS		DESIGN REVIEW	ACTUAL / FORECAST BASELINE																		
				COST ESTIMATE REVIEW	ACTUAL / FORECAST BASELINE																		
				BID DOCUMENT REVIEW	ACTUAL / FORECAST BASELINE																		
A745	A745	STATION AIR HANDLING UNITS, T.S.P.S. FANS, AND ROLL FILTERS		DESIGN REVIEW	ACTUAL / FORECAST BASELINE																		
				COST ESTIMATE REVIEW	ACTUAL / FORECAST BASELINE																		
				BID DOCUMENT REVIEW	ACTUAL / FORECAST BASELINE																		
A750	A750	TUNNEL LINERS		DESIGN REVIEW	ACTUAL / FORECAST BASELINE																		
				COST ESTIMATE REVIEW	ACTUAL / FORECAST BASELINE																		
				BID DOCUMENT REVIEW	ACTUAL / FORECAST BASELINE																		

LEGEND



REVIEW STATUS

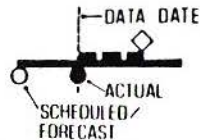
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- 100%
- ◇ SUBMITTAL TO RTD

- ⊕ ADVERTISE FOR BIDS
- ⊗ NOTICE TO PROCEED
- PCRD REVIEW PERIOD
- MRTC DESIGN SCHEDULE

FACILITIES
(DESIGN, ESTIMATE AND BID DOCUMENT REVIEW SCHEDULE)

CONTRACT NUMBER		DESCRIPTION	RESPON-SIBILITY	TASK	SCHD.	SEPTEMBER				OCTOBER				NOVEMBER					DECEMBER				
DESIGN	CONST.					7	14	21	28	5	12	19	26	2	9	16	23	30	7	14	21	28	4
A760	A760	SIGNING		DESIGN REVIEW	ACTUAL / FORECAST BASELINE																		
				COST ESTIMATE REVIEW	ACTUAL / FORECAST BASELINE																		
				BID DOCUMENT REVIEW	ACTUAL / FORECAST BASELINE																		
				BID DOCUMENT REVIEW	ACTUAL / FORECAST BASELINE																		
				DESIGN REVIEW	ACTUAL / FORECAST BASELINE																		
				COST ESTIMATE REVIEW	ACTUAL / FORECAST BASELINE																		
				BID DOCUMENT REVIEW	ACTUAL / FORECAST BASELINE																		
				DESIGN REVIEW	ACTUAL / FORECAST BASELINE																		
				COST ESTIMATE REVIEW	ACTUAL / FORECAST BASELINE																		
				BID DOCUMENT REVIEW	ACTUAL / FORECAST BASELINE																		
				DESIGN REVIEW	ACTUAL / FORECAST BASELINE																		
				COST ESTIMATE REVIEW	ACTUAL / FORECAST BASELINE																		
				BID DOCUMENT REVIEW	ACTUAL / FORECAST BASELINE																		
				DESIGN REVIEW	ACTUAL / FORECAST BASELINE																		
				COST ESTIMATE REVIEW	ACTUAL / FORECAST BASELINE																		
				BID DOCUMENT REVIEW	ACTUAL / FORECAST BASELINE																		

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REVIEW STATUS

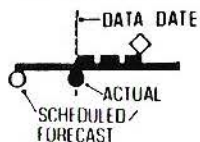
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- PDCD REVIEW PERIOD
- MRTC DESIGN SCHEDULE

SYSTEMS
(DESIGN, ESTIMATE AND BID DOCUMENT REVIEW SCHEDULE)

CONTRACT NUMBER		DESCRIPTION	RESPON-SIBILITY	TASK	SCHE.D.	SEPTEMBER				OCTOBER				NOVEMBER					DECEMBER				
DESIGN	CONST.					7	14	21	28	5	12	19	26	2	9	16	23	30	7	14	21	28	4
A620	A620	AUTOMATIC TRAIN CONTROL		DESIGN REVIEW	ACTUAL / FORECAST BASELINE																		
				COST ESTIMATE REVIEW	ACTUAL / FORECAST BASELINE																		
				BID DOCUMENT REVIEW	ACTUAL / FORECAST BASELINE																		
A640	A640	COMMUNICATIONS		DESIGN REVIEW	ACTUAL / FORECAST BASELINE																		
				COST ESTIMATE REVIEW	ACTUAL / FORECAST BASELINE																		
				BID DOCUMENT REVIEW	ACTUAL / FORECAST BASELINE																		
A612	A612	TRACTION POWER		DESIGN REVIEW	ACTUAL / FORECAST BASELINE																		
A615	A615			COST ESTIMATE REVIEW	ACTUAL / FORECAST BASELINE																		
A630	A630			BID DOCUMENT REVIEW	ACTUAL / FORECAST BASELINE																		
A631	A631																						
A650	A650	PASSENGER VEHICLE		DESIGN REVIEW	ACTUAL / FORECAST BASELINE																		
				COST ESTIMATE REVIEW	ACTUAL / FORECAST BASELINE																		
				BID DOCUMENT REVIEW	ACTUAL / FORECAST BASELINE																		
A671 THRU A678	A671 THRU A678	AUXILIARY VEHICLES		DESIGN REVIEW	ACTUAL / FORECAST BASELINE																		
				COST ESTIMATE REVIEW	ACTUAL / FORECAST BASELINE																		
				BID DOCUMENT REVIEW	ACTUAL / FORECAST BASELINE																		
A660	A660	FARE COLLECTION		DESIGN REVIEW	ACTUAL / FORECAST BASELINE																		
				COST ESTIMATE REVIEW	ACTUAL / FORECAST BASELINE																		
				BID DOCUMENT REVIEW	ACTUAL / FORECAST BASELINE																		

LEGEND



REVIEW STATUS

- 30%
- 60%
- △ 85%
- ◇ 100%
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- ⊕ NOTICE TO PROCEED
- == PDCO REVIEW PERIOD
- MRTS DESIGN SCHEDULE



LOS ANGELES METRO RAIL
CONTRACT PERFORMANCE
REPORT

PDCD

PERIOD October 1984

V. COST PERFORMANCE

The cumulative cost through October is \$983,000 versus a plan of \$1,659,000, leaving a variance of \$676,000. The primary cause of this variance is the continued underrun of labor against the Annual Work Plan due to cautious staffing in the first several months and, more recently, from the difficulty in obtaining qualified subcontractor personnel in several positions. Other direct costs remain substantially underrun until the costs of relocation are finalized and fixed. However, the other direct costs for October did increase, both on a dollar and percentage basis, due to the purchase of new equipment, and due to the payment of 3 months office space rent to Parsons in addition to other prior costs that were all processed in October. This increase caused the cumulative underrun to drop by 3%.

As stated in previous reports, the underrun in cost to date is treated as a management reserve that may be utilized prior to the conclusion of the first Annual Work Plan.



LOS ANGELES METRO RAIL
CONTRACT PERFORMANCE
REPORT

PDCD

PERIOD October 1984

CM Cost Performance - October 1984
(\$000)

PDCD	Planned	Actual	Variance	%
Labor, Burdens, Fee				
Cum Sep	626	445	(181)	(29)
Oct	276	197	(79)	(29)
Cum to Date	902	642	(260)	(29)
Travel and ODCS				
Cum Sep	231	110	(121)	(56)
Oct	126	104	(22)	(17)
Cum to Date	357	214	(143)	(40)
Subcontractors				
Cum Sep	247	65	(182)	(74)
Oct	153	62	(94)	(61)
Cum to Date	400	127	(273)	(68)
Total Cost				
Cum Sep	1,104	620	(484)	(44)
Oct	555	363	(192)	(35)
Cum to Date	1,659	983	(676)	(41)
Hours				
Cum Sep	19,813	12,225	(7,588)	(38)
Oct	10,275	7,680	(2,595)	(25)
Cum to Date	30,088	19,905	(10,183)	(34)

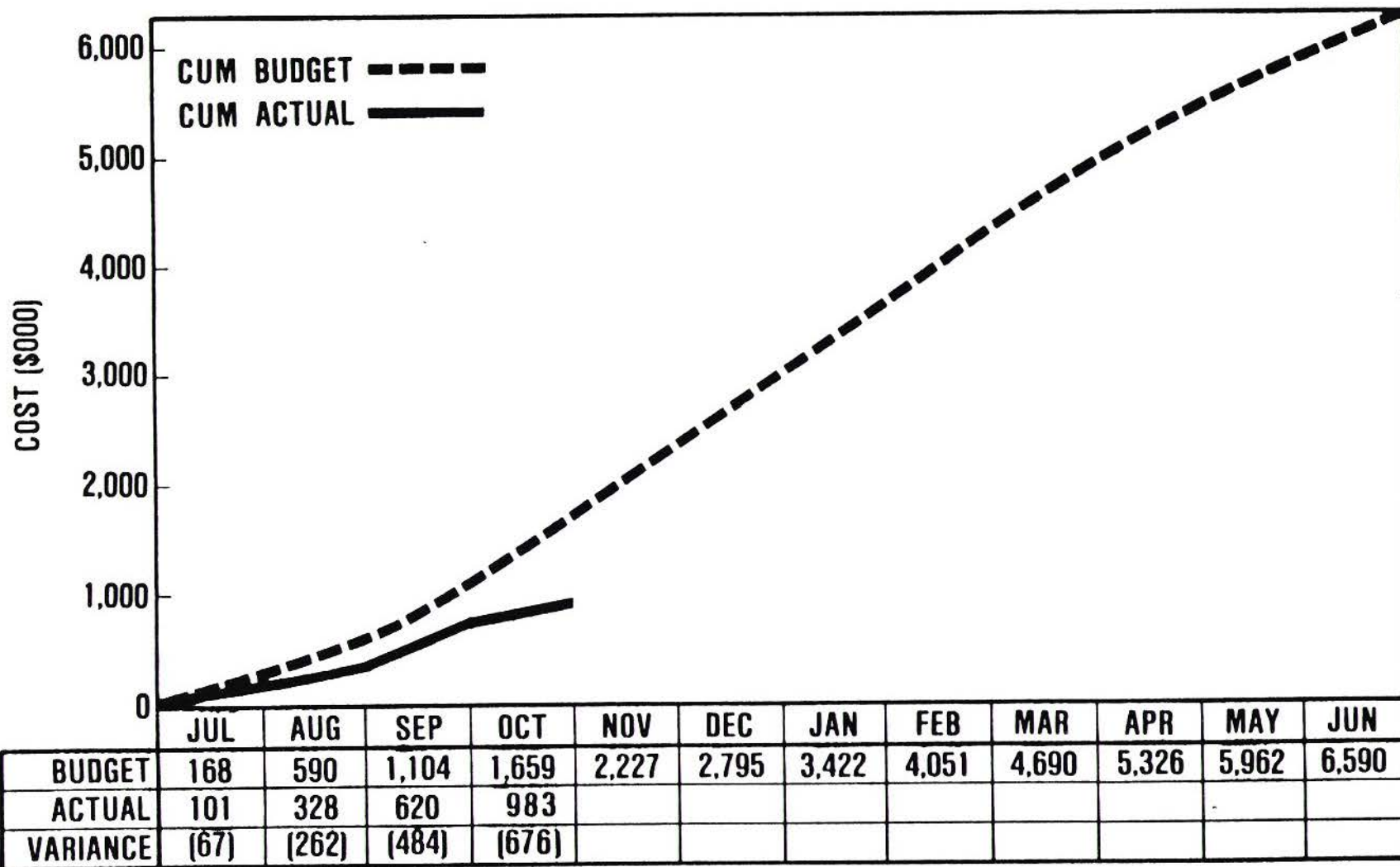
Parsons-Dillingham-De Leuw, Cather



LOS ANGELES METRO RAIL
CONTRACT PERFORMANCE
REPORT

PDCD

PERIOD OCTOBER 1984



Parsons-Dillingham-De Leuw, Cather

MANHOURS BY FUNCTIONAL DEPARTMENT

		Jul	Cumulative	Aug	Cumulative	Sep	Cumulative	Oct	Cumulative	Nov	Cumulative	Dec	Cumulative	Jan	Cumulative	Feb	Cumulative	Mar	Cumulative	Apr	Cumulative	May	Cumulative	Jun	Cumulative
Functional Department																									
Project Management and Secretarial	Plan	1,335.00	1,335.00	1,649.00	2,984.00	2,273.00	5,257.00	2,551.00	7,808.00	2,708.00	10,516.00	2,708.00	13,224.00	2,708.00	15,932.00	2,708.00	18,640.00	2,708.00	21,348.00	2,708.00	24,056.00	2,708.00	26,764.00	2,593.00	2,935.70
	Actual	724.00	724.00	1,643.50	2,367.50	1,684.50	4,057.00	2,064.00	6,121.00																
Systems Integration Manager	Plan	-	-	157.00	157.00	157.00	314.00	157.00	471.00	157.00	628.00	157.00	785.00	157.00	942.00	157.00	1,099.00	157.00	1,256.00	157.00	1,413.00	157.00	1,570.00	157.00	1,727.00
	Actual			-	-	120.00	120.00	160.00	280.00																
East Zone Construction Manager	Plan	-	-	157.00	157.00	157.00	314.00	157.00	471.00	157.00	628.00	157.00	785.00	157.00	942.00	157.00	1,099.00	157.00	1,256.00	157.00	1,413.00	157.00	1,570.00	157.00	1,727.00
	Actual			-	-	-	-	120.00	120.00																
General Services Manager	Plan	79.00	79.00	942.00	1,021.00	1,099.00	2,120.00	1,570.00	3,690.00	1,570.00	5,260.00	1,570.00	6,830.00	2,041.00	8,871.00	2,041.00	10,912.00	2,041.00	12,953.00	2,041.00	14,994.00	2,041.00	17,035.00	2,041.00	19,076.00
	Actual	40.00	40.00	216.00	256.00	187.00	443.00	568.00	1,011.00																
Project Controls	Plan	393.00	393.00	1,256.00	1,649.00	1,413.00	3,062.00	1,413.00	4,475.00	1,413.00	5,888.00	1,413.00	7,301.00	1,570.00	8,871.00	1,727.00	10,598.00	1,727.00	12,325.00	1,727.00	14,052.00	1,727.00	15,779.00	1,727.00	17,506.00
	Actual	262.75	262.75	842.00	1,104.75	912.00	2,016.75	952.00	2,968.75																
Contracts/Procurement	Plan	314.00	314.00	471.00	785.00	471.00	1,256.00	471.00	1,727.00	628.00	2,355.00	628.00	2,983.00	628.00	3,611.00	628.00	4,239.00	628.00	4,867.00	628.00	5,495.00	628.00	6,123.00	628.00	6,751.00
	Actual	119.00	119.00	377.50	496.50	396.00	892.50	428.50	1,321.00																
Engineering Services	Plan	79.00	79.00	1,727.00	1,806.00	1,962.00	3,768.00	2,276.00	6,044.00	2,276.00	8,320.00	2,276.00	10,596.00	2,590.00	13,186.00	2,590.00	15,776.00	2,747.00	18,523.00	2,747.00	21,270.00	2,747.00	24,017.00	2,826.00	26,843.00
	Actual	40.00	40.00	480.00	520.00	814.50	1,334.50	1,198.50	2,533.00																
Community Relation	Plan	79.00	79.00	157.00	236.00	157.00	393.00	157.00	550.00	157.00	707.00	157.00	864.00	471.00	1,335.00	471.00	1,806.00	471.00	2,277.00	471.00	2,748.00	471.00	3,219.00	471.00	3,690.00
	Actual	-	-	-	-	120.00	120.00	160.00	280.00																
Safety	Plan	79.00	79.00	157.00	236.00	157.00	393.00	157.00	550.00	157.00	707.00	157.00	864.00	157.00	1,021.00	157.00	1,178.00	157.00	1,335.00	157.00	1,492.00	157.00	1,649.00	157.00	1,806.00
	Actual	-	-	176.00	176.00	136.00	312.00	152.00	464.00																
Quality Assurance	Plan	157.00	157.00	157.00	314.00	157.00	471.00	157.00	628.00	157.00	785.00	157.00	942.00	157.00	1,099.00	157.00	1,256.00	157.00	1,413.00	157.00	1,570.00	157.00	1,727.00	157.00	1,884.00
	Actual	46.00	46.00	192.00	238.00	134.00	372.00	147.00	519.00																
Administration	Plan	628.00	628.00	628.00	1,256.00	628.00	1,884.00	628.00	2,512.00	628.00	3,140.00	628.00	3,768.00	628.00	4,396.00	628.00	5,024.00	628.00	5,652.00	628.00	6,280.00	628.00	6,908.00	628.00	7,536.00
	Actual	198.00	198.00	452.00	650.00	371.50	1,021.50	494.00	1,515.50																
EEO Administration	Plan	-	-	157.00	157.00	157.00	314.00	314.00	628.00	314.00	942.00	314.00	1,256.00	471.00	1,727.00	471.00	2,198.00	471.00	2,669.00	471.00	3,140.00	471.00	3,611.00	471.00	4,082.00
	Actual	-	-	120.00	120.00	152.00	272.00	160.00	432.00																
Labor Relations	Plan	-	-	-	-	79.00	79.00	79.00	158.00	-	158.00	79.00	237.00	79.00	316.00	-	316.00	79.00	395.00	79.00	474.00	79.00	553.00	69.00	622.00
	Actual	-	-	8.00	8.00	10.00	18.00	-	18.00																
Legal Counsel	Plan	-	-	-	-	188.00	188.00	188.00	376.00	188.00	564.00	188.00	752.00	189.00	941.00	189.00	1,130.00	189.00	1,319.00	189.00	1,508.00	188.00	1,696.00	188.00	1,884.00
	Actual	-	-	-	-	-	-	-	-																
Subtotal	Plan	3,143.00	3,143.00	7,615.00	10,758.00	9,055.00	19,813.00	10,275.00	30,088.00	10,510.00	40,598.00	10,589.00	51,187.00	12,003.00	63,190.00	12,081.00	75,271.00	12,317.00	87,588.00	12,317.00	99,905.00	12,316.00	112,221.00	12,270.00	124,491.00
	Actual	1,429.75	1,429.75	4,507.00	5,936.75	5,042.50	10,979.25	6,604.00	17,583.25																
Other Direct Labor																									
Home Office Support		Actuals																							
F. M. Parsons																									
Procurement & Contracts			50.00	50.00	42.50	92.50	24.00	116.50	27.50	144.00															
Admin. and Acctg.			29.00	29.00	54.00	83.00	27.00	110.00	460.00	570.00															
Technical			-	-	-	-	243.00	243.00	328.00	571.00															
Publication and Repro.			51.50	51.50	154.00	205.50	77.00	282.50	260.50	543.00															
DeLeuw, Cather																									
Admin. and Acctg.			18.00	18.00	-	18.00	4.00	22.00	-	22.00															
Technical			-	-	-	-	472.00	472.00	472.00																
Dillingham																									
Technical			-	-																					
S/T			148.50	148.50	250.50	399.00	847.00	1,246.00	1,076.00	2,322.00															
Total	Plan	3,143.00	3,143.00	7,615.00	10,758.00	9,055.00	19,813.00	10,275.00	30,088.00	10,510.00	40,598.00	10,589.00	51,187.00	12,003.00	63,190.00	12,081.00	75,271.00	12,317.00	87,588.00	12,317.00	99,905.00	12,316.00	112,221.00	12,270.00	124,491.00
	Actual	1,578.25	1,578.25	4,757.50	6,335.75	5,889.50	12,225.25	7,680.00	19,905.25																



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VI. SUMMARY OF ACTIVITIES PERFORMED IN OCTOBER

A. Administration and Accounting

1. Assisted in relocation to the project of F. W. Thompson and A. Jakovljevic.
2. Brought 8 personnel on board.
3. Prepared requisitions and submitted resumes and salaries to RTD for approval for eight personnel.
4. Received, installed, and configured the two DECmate II Word Processors from Digital. One operator was registered in a beginner's class and will follow up with a later advance class. Two operators have been registered in RTD's word processing training classes for November.
5. Received, installed, and configured an IBM personal computer (PC-AT) and software as follows: Lotus 1-2-3, General Ledger Accounts Payable, Payroll, and Job Cost. Finance personnel are undergoing training.
6. Completed major portions of the Administration Manual. A few minor segments will be completed after we move into the LA office.

B. Quality Assurance

1. Participated in internal review of Procurement procedures.
2. Submitted draft Manual on Guidelines for Inspectors to RTD for comments.
3. Reviewed draft Scheduling, Cost, AWP Plan and Staffing Plan, and Construction Operations Procedures for compatibility with QA/QC requirements.
4. Utilized two parent company personnel to review the Standard Specifications Division 1 comments were submitted; the remainder will be submitted in November.



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B. Quality Assurance (Contd)

5. Participated in CM meetings to clarify Contractor Quality Control and Contract Administration responsibility issues.

C. Equal Opportunity Administration

1. Attended and participated in an RTD seminar at City Hall on October 6, 1984 for the DBE/WBE community interested in construction and procurement opportunities.
2. Prepared information on MOS-1 contract opportunities covering potential prime contract opportunities for the above seminar.
3. Continued our community outreach efforts, attending various meetings and holding discussions with the Women Construction Owners and Executives, the Conference of American Contractors, and the Mexican American Opportunity Foundation.

D. Contracts and Procurement

1. Prepared subcontracts for submission to the following firms for signature:
 - o Dames & Moore
 - o Engineering-Science, Inc.
 - o Jacobs Associates
 - o Jenkins, Gales & Martinez, Inc.
 - o Martin & Huang International
 - o Randolph & Tate Associates



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2. Received signed copies of subcontracts from the following firms:
 - o Dames & Moore
 - o Jenkins, Gales & Martinez, Inc.
 - o Jacobs Associates
3. Prepared and submitted consent packages for the following subcontracts for District approval:
 - o Better Personnel Employment Service
 - o Construction Control Services Corporation
 - o Dames & Moore
 - o Jenkins, Gales & Martinez, Inc.
 - o Jacobs Associates.
4. Solicited quotes and delivery schedules on a prefabricated manhole for the District.
5. Developed Purchasing Activity Report.
6. Issued purchase orders for two DEC Word Processors and one IBM-PC.
7. Published 40 purchasing forms for use on the project.
8. Continued to prepare procurement procedures for RTD review.

E. Community Relations

1. Began developing guidelines for structuring Community Relations component.
2. Prepared Community Relations procedure manual for review.
3. Developed form to log complaints received by CR Office.

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4. Surveyed Union Station and Civic Center construction sites to identify businesses/residences/landmarks in anticipation of community relations activities in these areas.
5. Reviewed EA/FEIS for historical, archeological and paleontological impacts in Union Station and Civic Center areas.
6. Reviewed MOS-1 with Preconstruction Survey Coordinator.
7. Continued liaison with RTD for orientation regarding RTD's activities.

F. Safety

1. Attended biweekly F/L Safety Committee meetings reviewing closed circuit television systems.
2. Attended meeting on Metro Rail communications "Police/Security Support Systems."
3. Conducted a "walk-through" of several areas of concern along tunnel route and areas of station construction.
4. Met with Cal-OSHA on station construction and problems to be encountered above ground not involving tunnel safety.
5. Met with the LAPD on traffic control during station construction, including: employee parking at or near construction areas; fire and police and emergency vehicle operation in, near and around station construction areas; and foot traffic as well as vehicle in open cut areas.
6. Continued to develop a program for an Emergency Rescue Team in tunnel during the course of construction. The F/L Safety Committee agrees in point that a properly controlled team for the entire project would be more effective than to let each contractor develop his own program.
7. Discussed with International Mine Rescue Training Services, Inc. the need to have two people from our organization trained to teach and develop project Emergency Teams as a "mobile task force" type of operation to be used on a "when and where needed" basis.

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G. Construction and General Services

General Group Activities

1. Continued review of project design plans in accordance with overall CM constructibility review schedule.
2. Continued review of Contract Standard Specifications - Divisions 1 to 16.
3. Attended weekly RTD Project Status Report meetings.
4. Prepared final draft of "Resident Engineers Manual" and submitted to RTD for review and comment on October 12, 1984.
5. Prepared 6 additional procedures to the Construction Operations Procedures Manual and submitted to RTD for review and comment on October 16, 1984.
6. Reviewed comments received from RTD on Construction Operations Procedures Manual which was initially submitted on September 19, 1984. Comments accepted were incorporated as part of an update activity to the Manual. Final version to be submitted to RTD during first week of November.

Systems Integration

1. Met with RTD to discuss design status of several systemwide elements such as vehicle, automated train control, and communications. Also discussed PDCD participation in future industry reviews and design review meetings.
2. Reviewed portions of Standard Specifications with respect to systemwide requirements.
3. Continued constructibility reviews of packages for appropriate systems interface requirements.
4. Attended pertinent MRTD/RTD design review meetings.

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General Services

1. Attended the following Utility meetings with RTD and MRTC representatives to coordinate current utility design projects:
 - October 4 - RTD, General Utility Coordination
 - October 10 - Final Concept Plan, Fairfax/Santa Monica
 - October 16 - RTD Utility Manager, General Coordination
 - October 18 - RTD/MRTC, 5th and Hill Station
 - October 23 - MRTC Utility Coordination
 - October 26 - RTD, Civic Center Telephone
2. Reviewed the Utility Plan for contracts A-142, A-112.
3. Filled the staff positions of Manager of Utilities, Chief Utility Engineer, and Utility Engineer.
4. Obtained plans and documents for previously approved utility concept plans.
5. Updated Utility Standard Drawings and Criteria.

Traffic Maintenance

1. Held traffic maintenance coordination meeting with MRTC Traffic Engineer for Facility Design.
2. Coordinated with RTD Traffic Engineering Coordinator.

Permits

1. Started assembling Permit Criteria and requirements for construction.
2. Held meeting with representative on Permits, City of Los Angeles.

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Preconstruction Surveys

1. Updated Preconstruction Survey Procedure to reflect details on coordination with agencies and other technical requirements.
2. Made field inspection of MOS-1 alignment to identify potential survey conflicts and critical areas of concern.
3. Added Preconstruction Survey Engineer to the staff.

Zone Construction Management

1. Submitted proposed contract packaging and scheduling for MOS-1.
2. Continued constructibility reviews.
3. Met with MRTC, their design subcontractors, and RTD to discuss 85% comments on A-142.
4. Responded to RTD comments regarding the CM Operations Procedure Manual.
5. Reviewed Standard Technical Specifications (ongoing).

H. Engineering Services

1. Conducted the following constructibility reviews as forecast in the September Status Report:

<u>Contract</u>	<u>Date Submitted</u>
A350 (60%)	10/3/84
A130 (30%)	10/4/84
A142 (85% Rev.)	10/5/84
A613 (procurement spec)	10/8/84
A240 (60%)	10/9/84
A620 (in progress plans & spec)	10/19/84
A745 (30%)	10/23/84

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A618 (30%)	due 10/29/84
A112 (85%)	due 10/31/84
A220 (85%)	not received
A227 (Stage II)	as of
A740	10/24/84

2. Began or completed the following additional activities during October:

<u>Constructibility Reviews</u>	<u>Date Submitted</u>
A115 (60%)	10/10/84
A445 (60%)	10/23/84
A610	10/8/84
A760	10/8/84
Comments on Criteria, Standard & Directive Dwgs. Review of "industry review" packages, system wide	10/16/84 (completion in early Nov.)

3. Brought on board a Lead Mechanical Engineer.
4. Continued the search for a Systems Engineer with expertise in traction power, train control, communications and signalling and for junior geotechnical staff personnel.
5. Added a Geotechnical Instrumentation Specialist and requested the initiation of the services of the Chairman of the Senior Technical Advisory Board.
6. Attended review meeting with RTD and MRTC staff on Contracts A114, A410, A142, A350, A610, A220 and A130.

J. Project Controls

1. Continued development of the Construction Work Breakdown Structure and construction task dictionary for implementation on the construction estimates, bid schedules,

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progress reports and change orders. Held review meeting and discussions with RTD and MRTC in preparation for a joint PDCD/RTD recommended WBS.

2. Initiated tests for the 8 levels of TRACS for system interface, operations and user ease.
3. Prepared flow charts for control of construction using the TRACS and presented this material in a joint discussion with RTD and MRTC Program Controls.
4. Developed and submitted to RTD 2 basic cost control report formats to be coded into TRACS.
5. Developed detailed manual time-phased CM cost status reports by organization, task and company for subsequent computerization.
6. Received initial training on TRACS for the budgeting and task detailing modules.
7. Prepared schedules for MOS-1 construction packaging alternatives.
8. Reviewed the A114 100% cost estimate and submitted comments to RTD.
9. Prepared the initial draft of the estimating procedure.
10. Prepared the initial draft of the change order procedure.
11. Submitted the draft cost and schedule procedures to RTD for comments.
12. Submitted the PDCD Project Controls organization charts and 90-day look ahead schedule to RTD Program Controls.
13. Prepared document control index.
14. Reviewed applicability of Parsons Document and Material Control System for applicability of specific modules to Metro Rail. Recommendations are planned to be presented to RTD in November.

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VII. PLANNED ACTIVITIES IN NOVEMBER

A. Administration and Accounting

1. Review and incorporate RTD comments into Administration Procedures.
2. Revise and resubmit Secretarial Manual.
3. Assist in relocation arrangements for additional personnel, as required; continue assistance in submitting qualification to RTD for approval, bringing personnel on board, preparing TAs, reviewing expense reports, and keeping personnel records and reports up to date.
4. Finish personal computer training and begin establishing accounting system.
5. Install, configure and bring operational the DECmate Word Processor. Set up Word Processing function.

B. Quality Assurance

1. Meet with RTD Quality Assurance and their consultant Booz Allen to discuss QA/QC Procedures.
2. Revise QA/QC Procedures Manual to incorporate RTD comments.
3. Continue review and submittal of comments on Technical and Standard Specifications reflecting quality.
4. Complete coordination and submittal of Procedure Manuals.



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C. Equal Opportunity Administration

1. Attend Conference on November 1, sponsored by the Equal Employment Opportunity Commission, to update EO Administrators on current regulations.
2. Attend a meeting on Saturday, November 3 with the Women Commissioners from the City of Los Angeles, to discuss the Metro Rail Project.

D. Contracts and Procurement

1. Submit consent packages for the following subcontracts:
 - o Engineering-Science
 - o Martin & Huang, International
 - o Randolph & Tate Associates
2. Definitize the subcontracts with NPCC, Inc. and Ochoa & Sillas.
3. Review comments and revise Procurement Procedures, as required.
4. Receive TRACS training on the Procurement Module and test load a sample contract.

E. Community Relations

1. Coordinate meetings with appropriate CM/RTD personnel to discuss utilities and traffic issues and mitigation measures.
2. Begin identifying business/property/owners/managers.
3. Continue identifying businesses/residences/landmarks along MOS-1 route.
4. Review historical, archeological and paleontological mitigation measures for Union Station and Civic Center sites, and identify community groups/individuals that may express concern during construction.
5. Continue developing guidelines for community relations activities.



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F. Safety

1. Hold further discussions with CAL-OSHA Tunnel Section on their requirements for a rescue team.
2. Conduct further review of the feasibility of PDCD subcontracting the rescue team for the entire project.
3. Hold further discussions with the Fire Department and engineering organizations for backup in case of serious problems.
4. Review the emergency communications requirements from the tunnel area to the surface as well as to other areas as needed.
5. Conduct further study of emergency rescue development and training.

G. Construction and General Services

General Group Activities

1. Continue review of Standard Specifications - Division 1 to 16.
2. Finalize Construction Operations Procedure Manual and submit to RTD as part of contractual requirements.
3. Continue Constructibility Reviews.
4. Continue analysis of construction packaging and sequencing to determine efficiencies in time and cost of construction.

Systems Integration

1. Participate in meetings with RTD and industry representatives to resolve comments from recent industry review of Contract A-620, Automated Train Control.



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General Services

1. Conduct constructibility reviews for joint concept utility plans currently under design by utility companies.
2. Review Utility Standard Specifications and coordinate comments with RTD Utilities Manager.
3. Participate in joint utility review meetings as required.
4. Hold coordination meetings with Utility Companies' construction personnel.
5. Review Traffic Maintenance Plans for near-term contract packages.
6. Continue to define permit requirements for Metro Rail construction operations.
7. Review specifications on Instrumentation and coordinate comments with RTD and MRTC.
8. Bring on staff the Environmental Control Engineer and coordinate the environmental process with outside agencies.

Preconstruction Surveys

1. Meet with the RTD counterpart.
2. Meet with the RTD's OICP agent to review their requirements.
3. Meet with the MRTC representative to review their requirements.
4. Assemble historical information pertaining to the buildings/structures along MOS-1.

Zone Construction Management

1. Prepare CM Operations Mobilization Plan for construction phase.
2. Continue constructibility reviews.
3. Continue Standard Technical Specification reviews.

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H. Engineering Services

1. Planned November activities include constructibility reviews of contracts:

A130 (85%)
A165 (85%)
A170 (100%) (line tunnel)
A170A (85%) (Stage I)
A187 (85%) (Stage II)
A220 (85%) (line tunnel)
A410 (85%)
A415 (60%)
A425 (85%)
A427 (85%) (Stage II)
A447 (60%) (Stage II)

2. Analyze the use the existing tractor and trailer service building for use as an RE office.

J. Project Controls

1. Modify the Construction WBS to incorporate changes in the recently issued Standard Specifications. Resolve changes with MRTC.
2. Review the Standard Bid Documents for project control elements and provide comments to RTD to be incorporated by MRTC.
3. Produce computerized CPM for PDCD proposed MOS-1 construction sequencing and packaging. Work with MRTC to develop joint MOS-1 schedule.
4. Work with RTD Program Controls to develop CM detailed reporting system by task and functional organization utilizing the MSCS/MRCS elements of TRACS.
5. Continue to resolve the compatibility of TRACS with the proposed Project Control Plan.
6. Test load Contract A114 into TRACS.



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VIII. AREAS OF CONCERN

1. Clarification of the role of Contract Administration versus Resident Engineer in management administration of construction contracts.
2. Resolution of application of Contractor Quality Control.
3. Underpinning of structures, especially at Hill and 7th St.



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APPENDIX

SUBCONTRACTOR	NTP ISSUED	EXECUTED SUBCONTRACT	CONSENT SUBMITTED	CONSENT APPROVED
BETTER PERSONNEL EMPLOYMENT SERVICE	●	●	●	
CONSTRUCTION CONTROL SERVICES CORPORATION	●	●	●	
DAMES & MOORE	●		●	
ENGINEERING SCIENCES	●			
HAYAKAWA ASSOCIATES	●	●	●	
JACOBS ASSOCIATES	●			
JENKINS, GALE AND MARTINEZ	●		●	
MARTIN AND HUANG INTERNATIONAL	●			
NPCC, INC., CONSTRUCTION MANAGERS				
OCHOA AND SILLAS				
RANDOLPH AND TATE ASSOCIATES	●			
VANIR CONSTRUCTION MANAGEMENT, INC.	●	●	●	

FIGURE A-1 — PDCD SUBCONTRACTOR STATUS