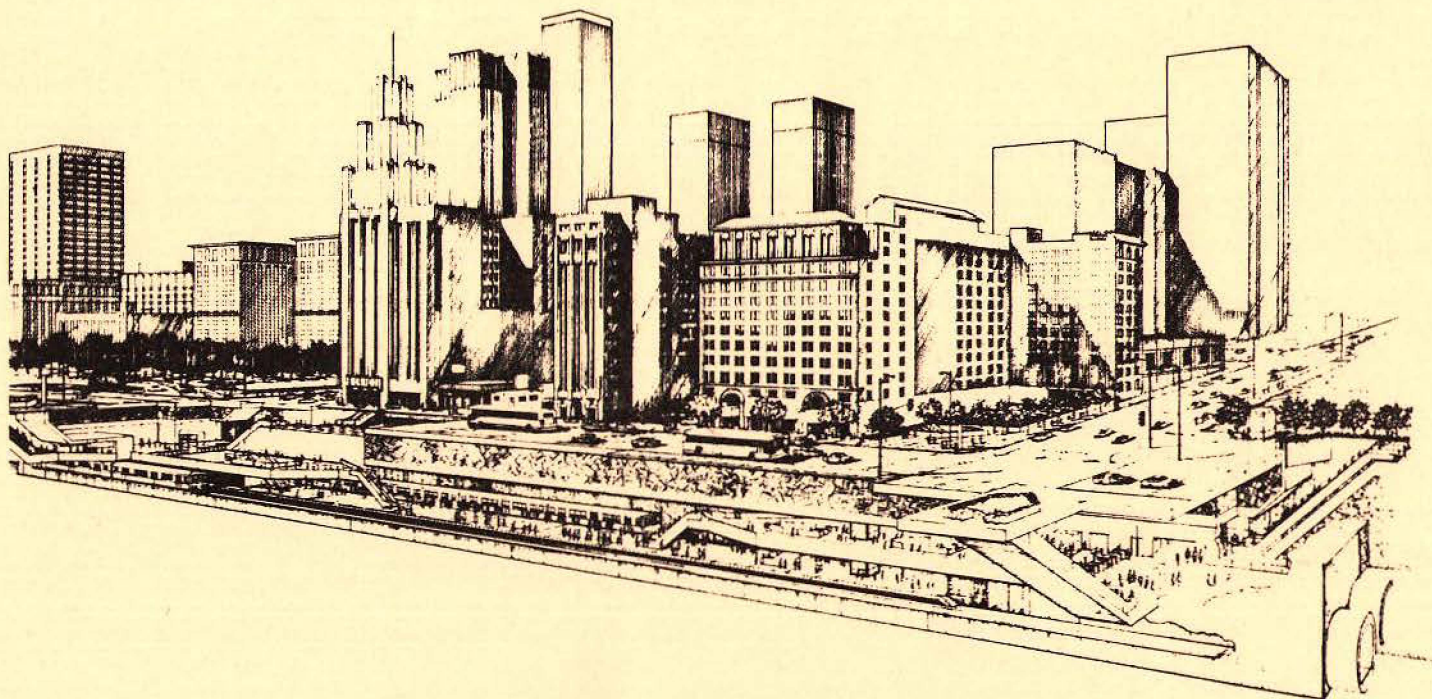


SCRTD
1985-
.M46
R46
Sep
1984

RTD

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



**REPORT NUMBER 3
SEPTEMBER 1984**

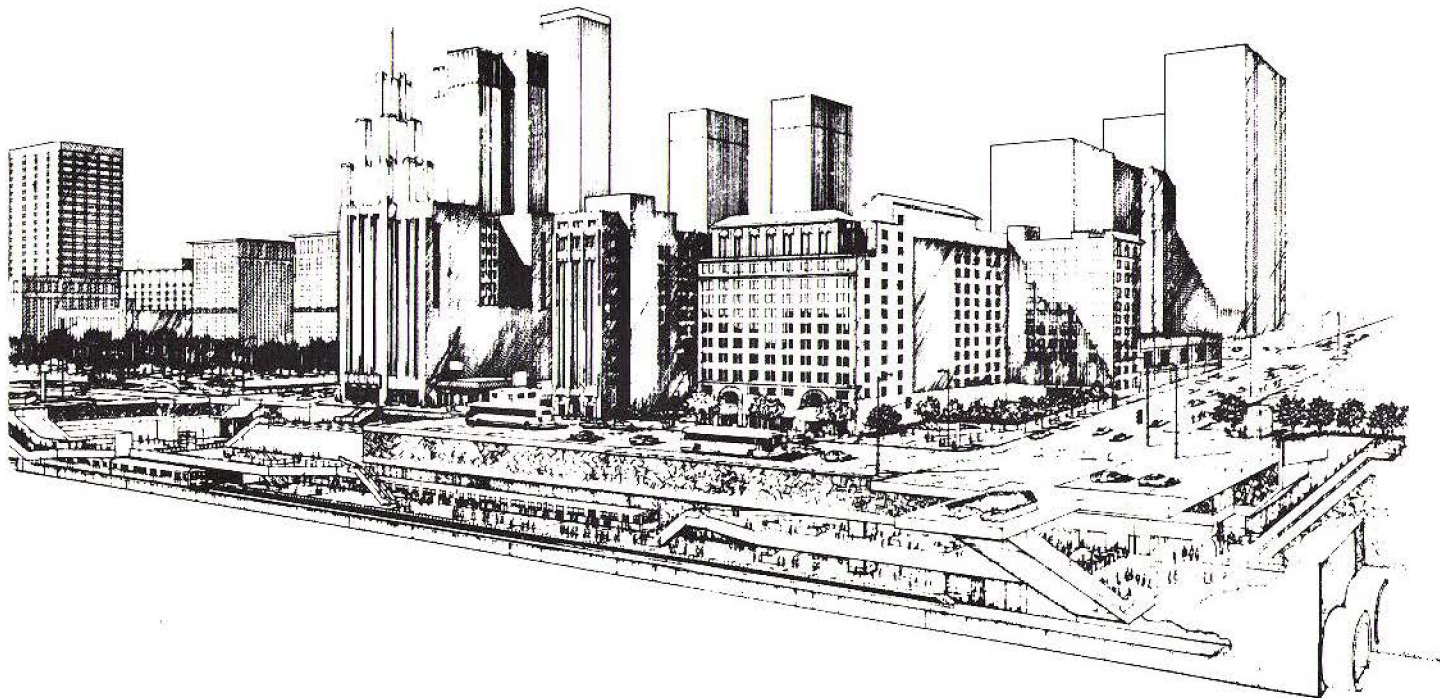
PD CD

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 3
SEPTEMBER 1984

PDCD

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



LOS ANGELES METRO RAIL
CONTRACT PERFORMANCE
REPORT

PDCD

PERIOD September 1984

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VI. Summary of Activities in September	VI-1 thru VI-8
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FOREWORD

This third monthly Contract Performance Report covers work activities for the reporting month of September 1984, covering the period from September 1 to September 28.

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Parsons-Dillingham-De Leuw, Cather



LOS ANGELES METRO RAIL
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REPORT

PDCD

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I. CONSTRUCTION MANAGER'S SUMMARY STATEMENT

Continued progress was made during the CM's third month of operation in terms of providing construction management planning to the MOS-1 design packages, reviewing our CM approach with RTD and MRTC, preparing project and construction procedures, reviewing design drawings and specifications for constructibility, broadening our staff expertise and in general continuing to deepen our involvement in the project.

Six positions were filled during September, bringing the total staff to 40. Limited Notices to Proceed (NTP) were issued to seven additional subcontractors, bringing the total to 10 of the 12. Only NPCC (programmed to provide a scheduler in January) and Ochoa & Sillas (the legal counsel) remain to be activated. Of the newly filled positions, three came from subcontractors. The current staff mix by company is summarized below:

<u>Company</u>	<u>Staff Level</u>
Parsons	18
Dillingham	4
De Leuw Cather	8
Better Personnel Employment Services	5
Construction Control Services Corporation	2
Jenkins, Gales & Martinez, Inc.	1
Martin & Huang International	1
Vanir Construction Management, Inc.	1
Total	40

Our staffing goal continues to be one of adding personnel only as needed to meet the evolving work load.

Within this staff, the minority goal of 17% was exceed by 10%, an increase of 3% over the previous period. The women goal of 3% was exceeded by 12%, equaling the same figure of last period.

Five constructibility reviews were completed on schedule in September, as well as comments on the standard Invitation to Bid and the General Conditions. We have now had an opportunity to review all MOS-1 facility packages except A133, A136, A147, and A157. The Tunnel Liner Study was submitted on schedule, and initial comments were provided on construction sequencing of Union Station. Considerable

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progress was made on the development of CM procedures, and five draft procedures were submitted on schedule to RTD.

A task force of six subway technical specialists was brought to Pasadena from De Leuw, Cather. During their 2-week stay, complete constructibility reviews were performed on the criteria and standard and directive drawings. The task force was found to be a productive and cost-effective technique for this specialized need. Intercompany work authorizations were issued to The Ralph M. Parsons Company and De Leuw, Cather to complete several other specific tasks, allowing cost-effective use of specialized personnel on an as-required basis.

Signed copies of Amendment 1 to the Contract and the First Annual Work Plan, limiting work to pre-construction tasks, were received from SCRTD on September 7.

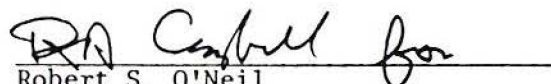
PDCD experienced a cumulative cost underrun of \$484,000 at the end of September, resulting from a slower than planned assignment of personnel to the project; these delays, however, have been consistent with the delayed NTP and finalization of other documents and subcontracts.

During September, a 9600-baud modem was delivered to replace the temporary installation. The TRACS installation was 75% operational to the test mode during the month. Progress was made at the end of the month with the issuance of two ID passwords to the operating system. Working with SCRTD Project Controls, test data was loaded into all eight levels of TRACS. The permanent printer has not yet been received.

The second PDCD Joint-Venture Board Meeting, to which SCRTD representatives have been invited, will be held on October 5. The initial board meeting was conducted in early August.

The cost proposal and lease terms for the third candidate downtown office were submitted to the RTD in September for consideration.

During October, CM expects to execute the remainder of subcontracts, continue development of the procedures, continue testing TRACS and begin training, begin review of the construction schedules, provide continued constructibility guidance on key MOS-1 contracts, and continue constructibility reviews as the documents are received.


Robert S. O'Neil
Construction Manager

Parsons-Dillingham-De Leuw, Cather



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II. MANPOWER PERFORMANCE

Project staffing increased by six during September, bringing the total to 40. Figure 1 gives the status of planned personnel versus actual as of September 28, 1984.

A total of 5,890 manhours was expended during September, producing an equivalent manpower of 36 persons (see Figure 2).



LOS ANGELES METRO RAIL
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FIGURE 1 - CONSTRUCTION MANAGERIAL MANPOWER STATUS
ROSTER COUNT 9/28/84

<u>Position</u>	<u>Planned</u>	<u>Actual</u>	<u>Variance</u>
<u>Management</u>			
Construction Manager	1	1	-
Secretarial/Word Processing	10	9	(1)
Subtotal	11	10	(1)
<u>Administration and Staff Support</u>			
Deputy	1	1	-
Manager, Project Administration	1	1	-
Office Manager	1	1	-
Senior Accountant	1	0	(1)
Personnel Administrator	1	1	-
Manager, Safety	1	1	-
Manager, Quality Assurance	1	1	-
Manager, Community Relations	1	1	-
EEO Administrator	1	1	-
Labor Relations Advisor	10	9	(1)
Subtotal	10	9	(1)
<u>Engineering Services/Project Controls</u>			
Deputy	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	(1)
Sr. Planner Scheduler	1	1	-
Lead Document Control Specialist	1	1	-
Lead Change Control Analyst	1	0	(1)
Manager, Contracts/Procurement	1	1	-
Contract Administrator	1	1	-
Procurement Specialist/Inspector	1	1	-

Parsons-Dillingham-De Leuw, Cather



LOS ANGELES METRO RAIL
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REPORT

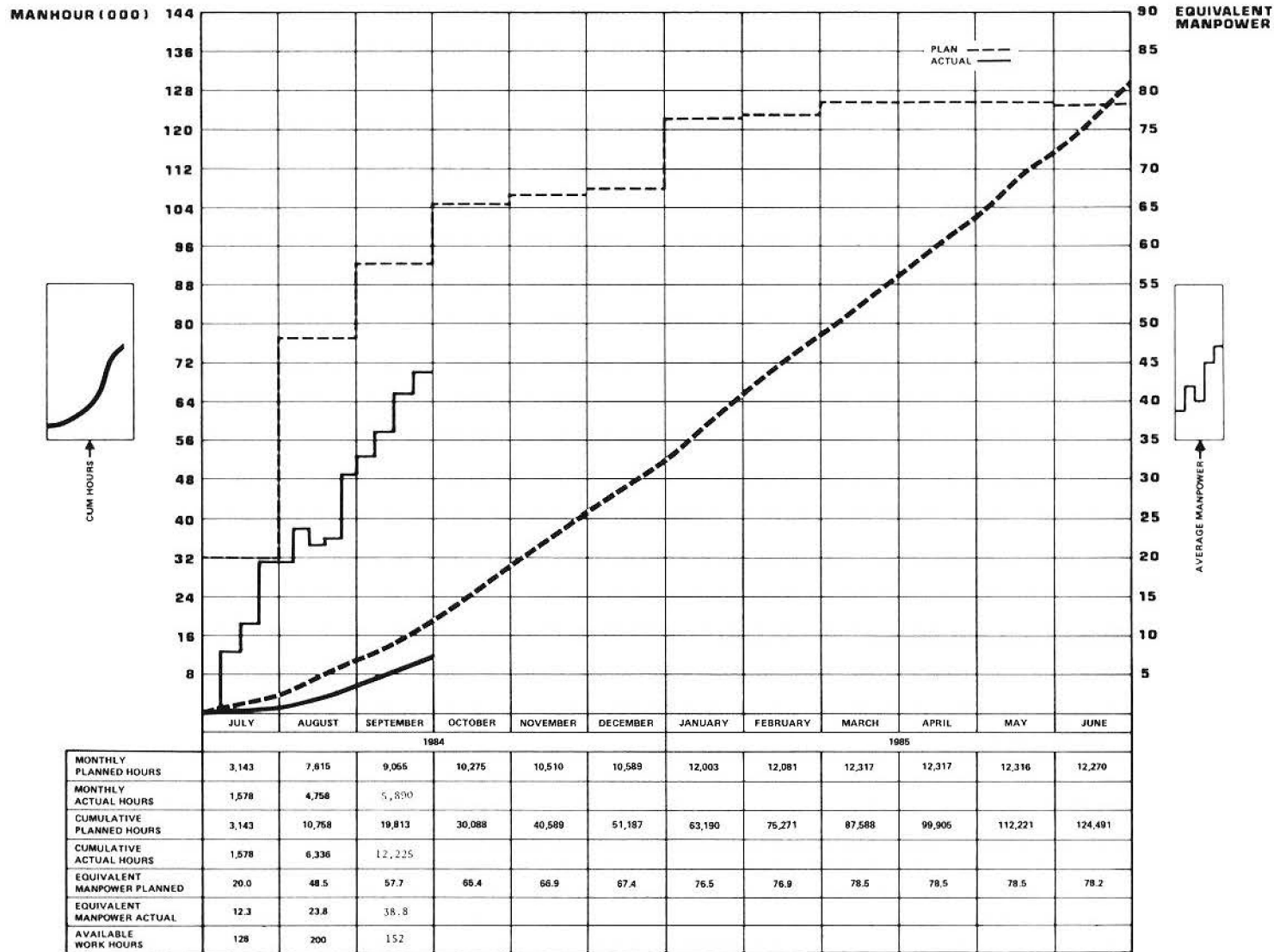
PDCD

PERIOD September 1984

Figure 1 (Contd)

<u>Position</u>	<u>Planned</u>	<u>Actual</u>	<u>Variance</u>
<u>Engineering Services/Project Controls (Contd)</u>			
Manager, Engineering Services	1	1	-
Lead Geotechnical Engineer	1	1	-
Lead Electrical Engineer	1	1	-
Lead Civil Structural Engineer	1	0	(1)
Civil Structural Engineer	1	1	-
Lead Architect	1	1	-
Lead Mechanical Engineer	1	0	(1)
Mechanical Engineer	1	0	(1)
Lead Systems Engineer	1	0	(1)
Systems Engineer	1	0	(1)
Clerical	-	-	-
Subtotal	24	16	(8)
<u>Planning</u>			
Deputy CM	1	1	-
<u>Operations</u>			
Deputy CM	1	1	-
Secretary/Clerical	-	-	-
Manager, General Services	1	1	-
Lead Utilities Engineer	1	0	(1)
Utilities Engineer	1	0	(1)
Chief of Surveys	1	1	-
Lead Traffic Coordinator	1	1	-
Lead Preconstruction Surveys	1	0	-
Lead Environmental Monitoring/Permit Engineer	1	0	(1)
Zone CM	1	0	(1)
Manager, Systems Integration	1	1	-
Subtotal	10	4	(6)
Total	56	40	(16)

Parsons-Dillingham-De Leuw, Cather



PDCD MANPOWER STATUS



LOS ANGELES METRO RAIL
CONTRACT PERFORMANCE
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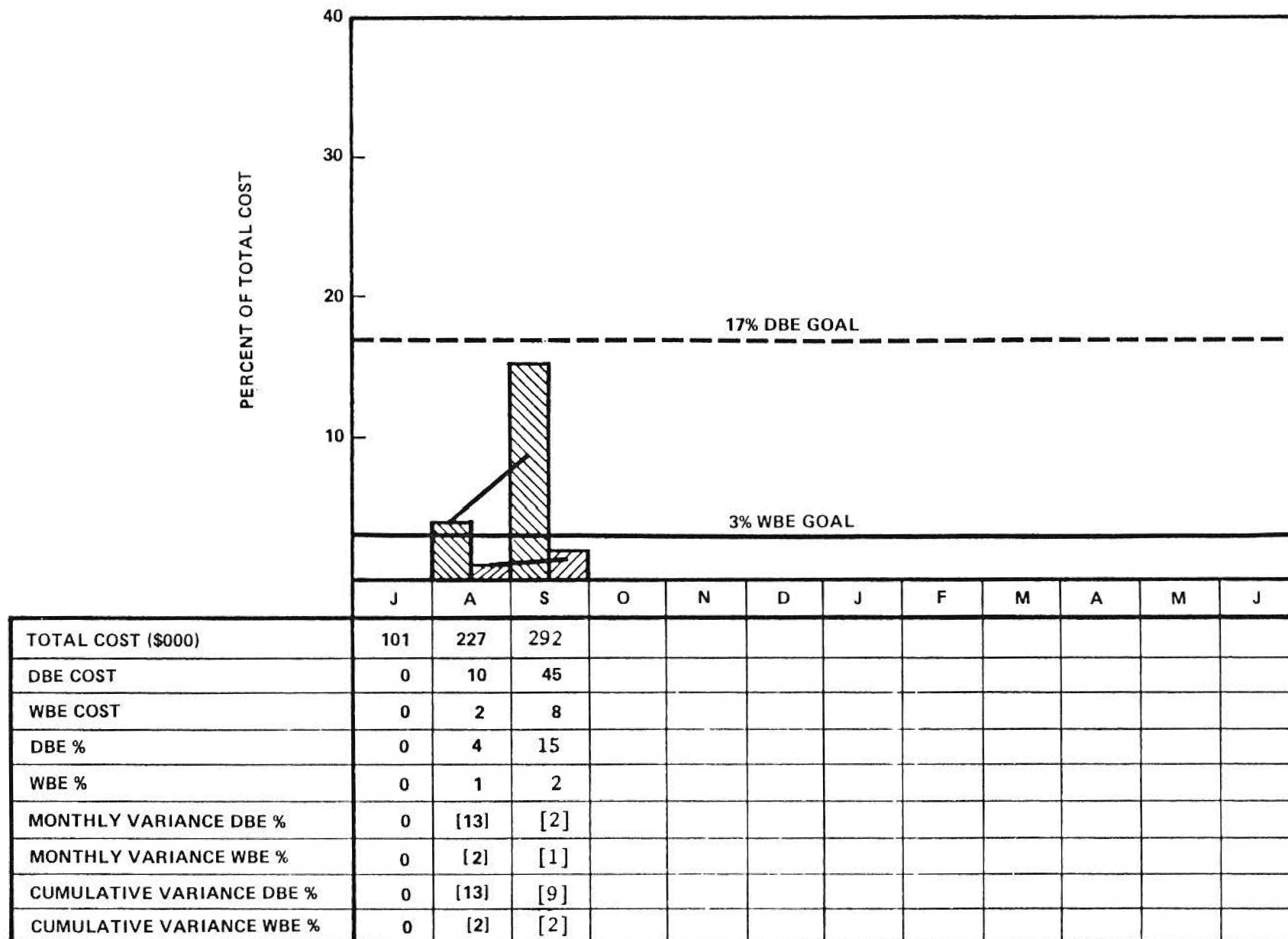
III. EQUAL OPPORTUNITY PERFORMANCE

The CM contract has established a DBE/WBE goal of 20% based on the dollar value of the contract over the terms of the contract. The goal is divided into 17% for DBEs and 3% for WBEs.

Bringing aboard three additional minority subcontractors this month increased the DBE and WBE participation to the levels of 15% and 2%, respectively (Figure 3).

The affirmative action goals are 17% for minorities and 3% for women. By August, these goals were surpassed and the trend has continued in September. Minority participation increased by 3% to 27%, and women participation remained at 12%. August performance has been restated following clarification of ethnic categories (Figure 4).

Parsons-Dillingham-De Leuw, Cather



LEGEND

DBE



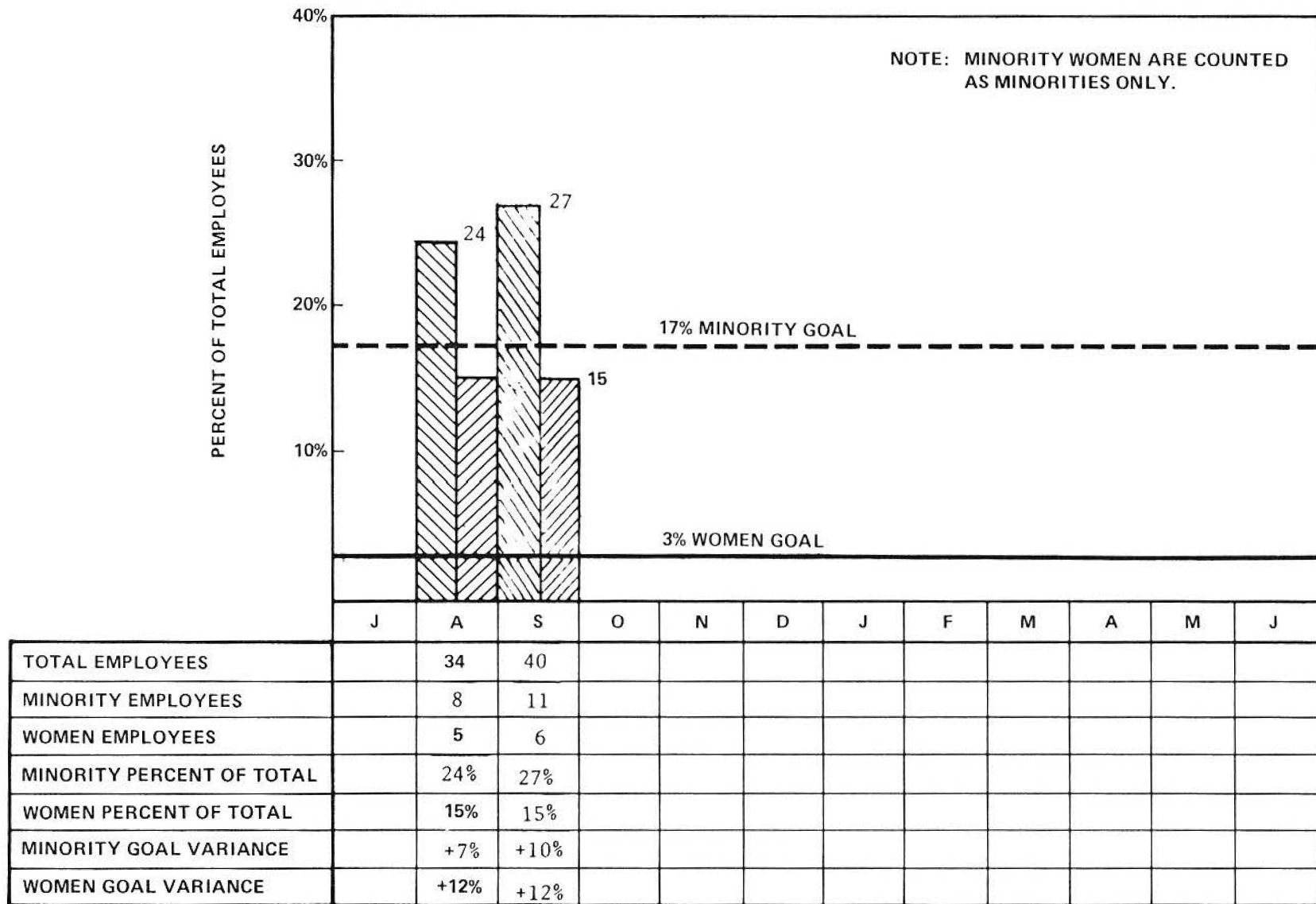
CUMULATIVE



WBE



Figure 3 - WBE/DBE Analysis



MINORITY 
 WOMEN 

Figure 4 - Preconstruction Affirmative Action Analysis



LOS ANGELES METRO RAIL
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IV. SCHEDULE PERFORMANCE

Nine design packages were received in September for review. Comments on five packages were submitted to the RTD. Three of the submittals responded to packages received in August. Reviews are in progress on nine packages. All submittals thus far have met RTD's priority schedules, although all packages have not been returned within the normal 2-week review period. At RTD's request, we have occasionally postponed some reviews to meet the demands of MOS-1 (Figure 5).

Parsons-Dillingham-De Leuw, Cather



LOS ANGELES METRO RAIL

CONTRACT PERFORMANCE REPORT

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Figure 5 - Design Package Review Schedule
September and October 1984

Contract No.	Planned		Actual		Remarks/Action	October Look-Ahead	
	%	Date	Recvd	Out		Planned Review/	Date
MOS-1							
112	-	-	-	-	--	85%	10/8
114	100%	8/27	9/19	9/28	Review completed	-	-
115	-	-	-	-	--	85%	10/22
130	60%	5/23	9/17	-	Review in process	85%	10/29
142	85%	9/28	10/1	10/5	Review of resubmittal in process	-	-
187	-	-	-	-	--	85%	10/26
610	30%	9/12	9/17	-	Review in process	-	-
611	-	-	-	-	--	85%	10/15
612/615/630/631	-	-	-	-	--	30%	10/3
613	60%	9/19	9/20	-	Review in process	-	-
614	60%	9/12	9/17	9/27	Review completed	-	-
618	-	-	-	-	--	60%	10/3
620	-	-	-	-	--	60%	10/2
640	30%	4/20	8/24	-	Review of Industry Package in process	-	-
650	60%	7/26	8/6	-	Review of Industry Package in process	-	-
671-678	-	-	-	-	--	85%	10/1
710	-	-	-	-	--	100%	10/22
720	-	-	-	-	--	100%	10/15
740	85%	9/24	9/26	-	Review of Industry Package in process	-	-
745	30%	8/30	8/31	-	Review of Industry Package in process	-	-
760	85%	9/14	9/26	-	Review in process	-	-

Parsons-Dillingham-De Leuw, Cather



LOS ANGELES METRO RAIL

CONTRACT PERFORMANCE REPORT

PDCD

PERIOD September 1984

Figure 5 (Contd)

<u>Contract No.</u>	<u>Planned</u>		<u>Actual</u>		<u>Remarks/Action</u>	<u>October Look-Ahead</u>	
	<u>%</u>	<u>Date</u>	<u>Recvd</u>	<u>Out</u>		<u>Planned Review/</u>	<u>Date</u>
<u>Follow-on</u>							
220	60%	8/27	8/31	9/14&9/21	Review completed	-	-
237	60%	8/23	*	-	*Not received	-	-
240	60%	9/17	9/18	-	--	-	-
275	-	-	-	-	--	85%	10/18
277	-	-	-	-	--	85%	10/1
350	60%	9/13	9/17	-	Review in process	-	-
410	-	-	-	-	--	85%	10/30
425	60%	8/17	8/21	9/19	Review completed	-	-
427	60%	8/17	8/21	9/19	Review completed	-	-
445	-	-	-	-	--	60%	10/1
447	-	-	-	-	--	60%	10/1

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	
C.M. PROCEDURES :																				
1) C.M. ORGANIZATION									◆				△							
ESTABLISH O&M OF									◆				△							
2) DOWNTOWN OFFICE																				
MANAGEMENT OF											○			△						
3) CONST. CHANGES																				
4) QUALITY ASSURANCE									◆			△								
5) PERMITS & LICENSES									◆				△							
COORD. BETWEEN									◆			△								
6) CONTRACTORS										◆		△								
7) SAFETY MONITORING																				
COORDINATE UTILITIES									◆			△								
8) & TRAFFIC																				
CONFIGURATION									◆			△								
9) CONTROL																				
10) SAFETY PLAN											○		△							
RESIDENT ENGINEERS											○		△							
11) MANUAL																				
12) STAFFING PLAN											○		△							
13) COST & SCHEDULING											○		△							
14) PROCUREMENT MANUAL												○			△					
PROJECT CONTROL												○			△					
15) MANUAL																				
OTHERS AS REQUIRED													○		△					
16) BY CM																				

SCHED.

ACTUAL



DRAFT TO RTD



FINAL SUBMITTAL TO RTD

CM SERVICES IN-HOUSE SCHEDULE

DESCRIPTION	RESPON- SIBILITY	AUGUST					SFPTEMBER				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																				
ENGR'G DESIGN TASK FORCE																				
o Review/Comment (Criteria, Design Standards, Directive Dwgs, Constr. Review)																				
PROCUREMENT DESIGN PACKAGE REVIEW																				
(by De Leuw-Cather)																				

SCHED



ACTUAL



Received from SCRTD

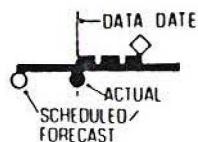


Submittal to SCRTD

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

CONTRACT NUMBER		DESCRIPTION	RESPON- SIBILITY	TASK	SCHED.	AUGUST					SEPTEMBER				OCTOBER				NOVEMBER				
DESIGN	CONST.					3	10	17	24	31	7	14	21	28	5	12	19	26	2	9	16	23	30
A100	A112	SERVICE AREA AND MAIN SHOP BUILDING		DESIGN REVIEW	ACTUAL / FORECAST BASE LINE																		
				COST ESTIMATE REVIEW	ACTUAL / FORECAST BASE LINE																		
				BID DOCUMENT REVIEW	ACTUAL / FORECAST BASE LINE																		
	A114	MAINTENANCE OF WAY (MOW) SHOP BUILDING		DESIGN REVIEW	ACTUAL / FORECAST BASE LINE																		
				COST ESTIMATE REVIEW	ACTUAL / FORECAST BASE LINE																		
				BID DOCUMENT REVIEW	ACTUAL / FORECAST BASE LINE																		
	A115	STORAGE YARD		DESIGN REVIEW	ACTUAL / FORECAST BASE LINE																		
				COST ESTIMATE REVIEW	ACTUAL / FORECAST BASE LINE																		
				BID DOCUMENT REVIEW	ACTUAL / FORECAST BASE LINE																		
	A130	YARD LEADS AND TRANSFER ZONE		DESIGN REVIEW	ACTUAL / FORECAST BASE LINE																		
				COST ESTIMATE REVIEW	ACTUAL / FORECAST BASE LINE																		
				BID DOCUMENT REVIEW	ACTUAL / FORECAST BASE LINE																		
A135	A131	UNION STATION TRACK RELOCATION		DESIGN REVIEW	ACTUAL / FORECAST BASE LINE																		
				COST ESTIMATE REVIEW	ACTUAL / FORECAST BASE LINE																		
				BID DOCUMENT REVIEW	ACTUAL / FORECAST BASE LINE																		
	A133	UNION STATION REPLACEMENT BAGGAGE HANDLING FACILITIES		DESIGN REVIEW	ACTUAL / FORECAST BASE LINE																		
				COST ESTIMATE REVIEW	ACTUAL / FORECAST BASE LINE																		
				BID DOCUMENT REVIEW	ACTUAL / FORECAST BASE LINE																		

LEGEND:



REVIEW STATUS

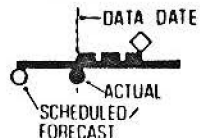
- 30%
- 60%
- △ 85%
- 100%
- ◇ SUBMITTAL TO RTD

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

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

CONTRACT NUMBER		DESCRIPTION	RESPON-SIBILITY	TASK	SCHED.	AUGUST					SEPTEMBER				OCTOBER				NOVEMBER																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
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A135	A135	UNION STATION AND CROSSOVER STAGE I		DESIGN REVIEW	ACTUAL / FORECAST BASELINE																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									

LEGEND:



REVIEW STATUS

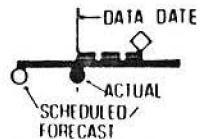
- 30%
- 60%
- △ 85%
- ◐ 100%
- ◇ SUBMITTAL TO RTD

- ⊗ 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.	AUGUST					SEPTEMBER				OCTOBER				NOVEMBER				
DESIGN	CONST.					3	10	17	24	31	7	14	21	28	5	12	19	26	2	9	16	23	30
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

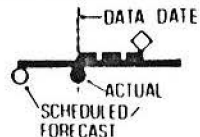
- 30%
- 60%
- △ 85%
- 100%
- ◇ SUBMITTAL TO RTD

- ⊗ ADVERTISE FOR BIDS
- ⊗ NOTICE TO PROCEED
- == PCOD 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.	AUGUST					SEPTEMBER				OCTOBER				NOVEMBER				
DESIGN	CONST.					3	10	17	24	31	7	14	21	28	5	12	19	26	2	9	16	23	30
A195	A195	WILSHIRE/VERMONT STATION, STAGE I LINE SECTION WILSHIRE/ALVARADO TO WILSHIRE/VERMONT		DESIGN REVIEW	ACTUAL / FORECAST BASE LINE																		
				COST ESTIMATE REVIEW	ACTUAL / FORECAST BASE LINE																		
				BID DOCUMENT REVIEW	ACTUAL / FORECAST BASE LINE																		
	A197	WILSHIRE/VERMONT STATION STAGE II		DESIGN REVIEW	ACTUAL / FORECAST BASE LINE																		
				COST ESTIMATE REVIEW	ACTUAL / FORECAST BASE LINE																		
				BID DOCUMENT REVIEW	ACTUAL / FORECAST BASE LINE																		
A220	A220	WILSHIRE/NORMANDIE STATION AND WILSHIRE/ WESTERN STATION, STAGE I LINE SECTION WILS/VERM TO WILSHIRE/WESTERN		DESIGN REVIEW	ACTUAL / FORECAST BASE LINE																		
				COST ESTIMATE REVIEW	ACTUAL / FORECAST BASE LINE																		
				BID DOCUMENT REVIEW	ACTUAL / FORECAST BASE LINE																		
	A227	WILSHIRE/NORMANDIE STATION STAGE II		DESIGN REVIEW	ACTUAL / FORECAST BASE LINE																		
				COST ESTIMATE REVIEW	ACTUAL / FORECAST BASE LINE																		
				BID DOCUMENT REVIEW	ACTUAL / FORECAST BASE LINE																		
	A230	LINE SECTION WILSHIRE/WESTERN TO WILSHIRE/LA BREA		DESIGN REVIEW	ACTUAL / FORECAST BASE LINE																		
				COST ESTIMATE REVIEW	ACTUAL / FORECAST BASE LINE																		
				BID DOCUMENT REVIEW	ACTUAL / FORECAST BASE LINE																		
	A237	WILSHIRE/WESTERN STATION STAGE II		DESIGN REVIEW	ACTUAL / FORECAST BASE LINE																		
				COST ESTIMATE REVIEW	ACTUAL / FORECAST BASE LINE																		
				BID DOCUMENT REVIEW	ACTUAL / FORECAST BASE LINE																		

LEGEND:



REVIEW STATUS

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

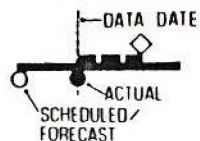
- ⊕ ADVERTISE FOR BIDS
- ⊗ NOTICE TO PROCEED
- PCRD REVIEW PERIOD
- MRTC DESIGN SCHEDULE

NOT RECEIVED

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

CONTRACT NUMBER		DESCRIPTION	RESPON- SIBILITY	TASK	SCHED.	AUGUST					SEPTEMBER				OCTOBER				NOVEMBER				
DESIGN	CONST.					3	10	17	24	31	7	14	21	28	5	12	19	26	2	9	16	23	30
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

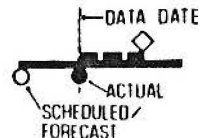
- 30%
- 60%
- △ 85%
- ◐ 100%
- ◇ SUBMITTAL TO RTD

- ⊕ ADVERTISE FOR BIDS
- ⊗ NOTICE TO PROCEED
- ▬ POCD 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.	AUGUST					SEPTEMBER				OCTOBER				NOVEMBER				
DESIGN	CONST.					3	10	17	24	31	7	14	21	28	5	12	19	26	2	9	16	23	30
A275	A275	FAIRFAX/BEVERLY STATION STAGE I		DESIGN REVIEW	ACTUAL / FORECAST BASELINE												△						
				COST ESTIMATE REVIEW	ACTUAL / FORECAST BASELINE																		
				BID DOCUMENT REVIEW	ACTUAL / FORECAST BASELINE																		
	A277	FAIRFAX/BEVERLY STATION STAGE II		DESIGN REVIEW	ACTUAL / FORECAST BASELINE												△						
				COST ESTIMATE REVIEW	ACTUAL / FORECAST BASELINE																		
				BID DOCUMENT REVIEW	ACTUAL / FORECAST BASELINE																		
A310	A320	LINE SECTION - FAIRFAX/ BEVERLY TO FAIRFAX/ SANTA MONICA STATION & FAIRFAX/SANTA MONICA STATION, STAGE I		DESIGN REVIEW	ACTUAL / FORECAST BASELINE																		
				COST ESTIMATE REVIEW	ACTUAL / FORECAST BASELINE																		
				BID DOCUMENT REVIEW	ACTUAL / FORECAST BASELINE																		
	A327	FAIRFAX/SANTA MONICA STATION STAGE II		DESIGN REVIEW	ACTUAL / FORECAST BASELINE																		
				COST ESTIMATE REVIEW	ACTUAL / FORECAST BASELINE																		
				BID DOCUMENT REVIEW	ACTUAL / FORECAST BASELINE																		
	A330	LINE SECTION FAIRFAX/SANTA MONICA TO HOLLYWOOD/CAHUENGA, LA BREA/SUNSET STATION STAGE I		DESIGN REVIEW	ACTUAL / FORECAST BASELINE																		
				COST ESTIMATE REVIEW	ACTUAL / FORECAST BASELINE																		
				BID DOCUMENT REVIEW	ACTUAL / FORECAST BASELINE																		
	A347	LA BREA/SUNSET STATION STAGE II		DESIGN REVIEW	ACTUAL / FORECAST BASELINE																		
				COST ESTIMATE REVIEW	ACTUAL / FORECAST BASELINE																		
				BID DOCUMENT REVIEW	ACTUAL / FORECAST BASELINE																		

LEGEND:



REVIEW STATUS

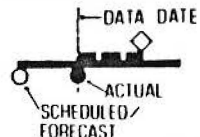
- 30%
- 60%
- △ 85%
- 100%
- ◇ SUBMITTAL TO RTD

- ⊕ ADVERTISE FOR BIDS
- ⊗ NOTICE TO PROCEED
- POCO 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.	AUGUST					SEPTEMBER				OCTOBER				NOVEMBER				
DESIGN	CONST.					3	10	17	24	31	7	14	21	28	5	12	19	26	2	9	16	23	30
A350	A350	HOLLYWOOD/CAHUENGA STATION STAGE I		DESIGN REVIEW	ACTUAL / FORECAST BASE LINE																		
				COST ESTIMATE REVIEW	ACTUAL / FORECAST BASE LINE																		
				BID DOCUMENT REVIEW	ACTUAL / FORECAST BASE LINE																		
	A352	HOLLYWOOD/CAHUENGA STATION STAGE II		DESIGN REVIEW	ACTUAL / FORECAST BASE LINE																		
				COST ESTIMATE REVIEW	ACTUAL / FORECAST BASE LINE																		
				BID DOCUMENT REVIEW	ACTUAL / FORECAST BASE LINE																		
A410	A410	LINE BETWEEN HOLLYWOOD/CAHUENGA AND UNIVERSAL CITY		DESIGN REVIEW	ACTUAL / FORECAST BASE LINE																		
				COST ESTIMATE REVIEW	ACTUAL / FORECAST BASE LINE																		
				BID DOCUMENT REVIEW	ACTUAL / FORECAST BASE LINE																		
A415	A415	HOLLYWOOD BOWL STATION (CONSTRUCTION DEFERRED)		DESIGN REVIEW	ACTUAL / FORECAST BASE LINE																		
				COST ESTIMATE REVIEW	ACTUAL / FORECAST BASE LINE																		
				BID DOCUMENT REVIEW	ACTUAL / FORECAST BASE LINE																		
A425	A425	UNIVERSAL CITY STATION STAGE I		DESIGN REVIEW	ACTUAL / FORECAST BASE LINE																		
				COST ESTIMATE REVIEW	ACTUAL / FORECAST BASE LINE																		
				BID DOCUMENT REVIEW	ACTUAL / FORECAST BASE LINE																		
	A427	UNIVERSAL CITY STATION STAGE II		DESIGN REVIEW	ACTUAL / FORECAST BASE LINE																		
				COST ESTIMATE REVIEW	ACTUAL / FORECAST BASE LINE																		
				BID DOCUMENT REVIEW	ACTUAL / FORECAST BASE LINE																		

LEGEND:



REVIEW STATUS

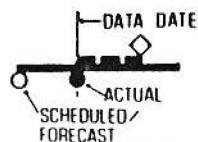
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- 100%
- ◇ SUBMITTAL TO RTD

- ⊕ ADVERTISE FOR BIDS
- ⊕ NOTICE TO PROCEED
- ▬ PUOD REVIEW PERIOD
- ▬ MRTD DESIGN SCHEDULE

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

CONTRACT NUMBER		DESCRIPTION	RESPON- SIBILITY	TASK	SCHED.	AUGUST					SEPTEMBER				OCTOBER				NOVEMBER				
DESIGN	CONST.					3	10	17	24	31	7	14	21	28	5	12	19	26	2	9	16	23	30
A430	A430	LINE BETWEEN UNIVERSAL CITY STATION AND NORTH HOLLYWOOD STATION		DESIGN REVIEW	ACTUAL / FORECAST DATE LINE																		
				COST ESTIMATE REVIEW	ACTUAL / FORECAST DATE LINE																		
				BID DOCUMENT REVIEW	ACTUAL / FORECAST DATE LINE																		
A445	A445	NORTH HOLLYWOOD STATION STAGE I		DESIGN REVIEW	ACTUAL / FORECAST DATE LINE																		
				COST ESTIMATE REVIEW	ACTUAL / FORECAST DATE LINE																		
				BID DOCUMENT REVIEW	ACTUAL / FORECAST DATE LINE																		
A447	A447	NORTH HOLLYWOOD STATION STAGE II		DESIGN REVIEW	ACTUAL / FORECAST DATE LINE																		
				COST ESTIMATE REVIEW	ACTUAL / FORECAST DATE LINE																		
				BID DOCUMENT REVIEW	ACTUAL / FORECAST DATE LINE																		
				DESIGN REVIEW	ACTUAL / FORECAST DATE LINE																		
				COST ESTIMATE REVIEW	ACTUAL / FORECAST DATE LINE																		
				BID DOCUMENT REVIEW	ACTUAL / FORECAST DATE LINE																		
				DESIGN REVIEW	ACTUAL / FORECAST DATE LINE																		
				COST ESTIMATE REVIEW	ACTUAL / FORECAST DATE LINE																		
				BID DOCUMENT REVIEW	ACTUAL / FORECAST DATE LINE																		
				DESIGN REVIEW	ACTUAL / FORECAST DATE LINE																		
				COST ESTIMATE REVIEW	ACTUAL / FORECAST DATE LINE																		
				BID DOCUMENT REVIEW	ACTUAL / FORECAST DATE LINE																		

LEGEND:



REVIEW STATUS

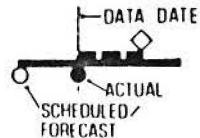
- 30%
- 60%
- △ 85%
- 100%
- ◇ SUBMITTAL TO RTD

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

FACILITIES
(DESIGN, ESTIMATE AND BID DOCUMENT REVIEW SCHEDULE)

CONTRACT NUMBER		DESCRIPTION	RESPON- SIBILITY	TASK	SCHED.	AUGUST					SEPTEMBER				OCTOBER				NOVEMBER				
DESIGN	CONST.					3	10	17	24	31	7	14	21	28	5	12	19	26	2	9	16	23	30
A618	A618	TRACKWORK-YARD TRACKWORK DESIGN		DESIGN REVIEW	ACTUAL / FORECAST BASE LINE																		
				COST ESTIMATE REVIEW	ACTUAL / FORECAST BASE LINE																		
				BID DOCUMENT REVIEW	ACTUAL / FORECAST BASE LINE																		
A710	A710	ESCALATORS		DESIGN REVIEW	ACTUAL / FORECAST BASE LINE																		
				COST ESTIMATE REVIEW	ACTUAL / FORECAST BASE LINE																		
				BID DOCUMENT REVIEW	ACTUAL / FORECAST BASE LINE																		
A720	A720	ELEVATORS		DESIGN REVIEW	ACTUAL / FORECAST BASE LINE																		
				COST ESTIMATE REVIEW	ACTUAL / FORECAST BASE LINE																		
				BID DOCUMENT REVIEW	ACTUAL / FORECAST BASE LINE																		
A740	A740	EMERGENCY, MID-TUNNEL, UNDER PLATFORM FANS- MOTOR-UNITS, DAMPERS, AND SOUND ATTENUATORS		DESIGN REVIEW	ACTUAL / FORECAST BASE LINE																		
				COST ESTIMATE REVIEW	ACTUAL / FORECAST BASE LINE																		
				BID DOCUMENT REVIEW	ACTUAL / FORECAST BASE LINE																		
A745	A745	STATION AIR HANDLING UNITS, T.S.P.S. FANS, AND ROLL FILTERS		DESIGN REVIEW	ACTUAL / FORECAST BASE LINE																		
				COST ESTIMATE REVIEW	ACTUAL / FORECAST BASE LINE																		
				BID DOCUMENT REVIEW	ACTUAL / FORECAST BASE LINE																		
A750	A750	TUNNEL LINERS		DESIGN REVIEW	ACTUAL / FORECAST BASE LINE																		
				COST ESTIMATE REVIEW	ACTUAL / FORECAST BASE LINE																		
				BID DOCUMENT REVIEW	ACTUAL / FORECAST BASE LINE																		

LEGEND:



REVIEW STATUS

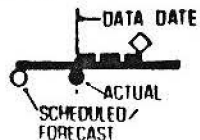
- 30%
- 60%
- △ 85%
- 100%
- ◇ SUBMITTAL TO RTD

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

FACILITIES
(DESIGN, ESTIMATE AND BID DOCUMENT REVIEW SCHEDULE)

CONTRACT NUMBER		DESCRIPTION	RESPON-SIBILITY	TASK	SCHNO.	AUGUST					SEPTEMBER				OCTOBER				NOVEMBER				
DESIGN	CONST.					3	10	17	24	31	7	14	21	28	5	12	19	26	2	9	16	23	30
A760	A760	SIGNING		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																		
				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

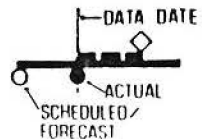
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- ◇ 100%
- ◇ SUBMITTAL TO RTD

- ⊕ ADVERTISE FOR BIDS
- ⊕ NOTICE TO PROCEED
- PDOR REVIEW PERIOD
- MTRC DESIGN SCHEDULE

FACILITIES
(DESIGN, ESTIMATE AND BID DOCUMENT REVIEW SCHEDULE)

CONTRACT NUMBER		DESCRIPTION	RESPON- SIBILITY	TASK	SCHED.	AUGUST					SEPTEMBER				OCTOBER				NOVEMBER				
DESIGN	CONST.					3	10	17	24	31	7	14	21	28	5	12	19	26	2	9	16	23	30
A610	A610	TRACKWORK-MAINLINE TRACKWORK		DESIGN REVIEW	ACTUAL / FORECAST BASE LINE									◊									
				COST ESTIMATE REVIEW	ACTUAL / FORECAST BASE LINE								●										
				BID DOCUMENT REVIEW	ACTUAL / FORECAST BASE LINE																		
A611	A611	TRACKWORK-RUNNING RAIL SPECIFICATIONS		DESIGN REVIEW	ACTUAL / FORECAST BASE LINE													◊					
				COST ESTIMATE REVIEW	ACTUAL / FORECAST BASE LINE													△					
				BID DOCUMENT REVIEW	ACTUAL / FORECAST BASE LINE																		
A613	A613	TRACKWORK-TIMBER TIE SPECIFICATIONS		DESIGN REVIEW	ACTUAL / FORECAST BASE LINE													◊					
				COST ESTIMATE REVIEW	ACTUAL / FORECAST BASE LINE									■									
				BID DOCUMENT REVIEW	ACTUAL / FORECAST BASE LINE																		
A614	A614	TRACKWORK-SPECIAL TRACKWORK DESIGN		DESIGN REVIEW	ACTUAL / FORECAST BASE LINE																		
				COST ESTIMATE REVIEW	ACTUAL / FORECAST BASE LINE									■									
				BID DOCUMENT REVIEW	ACTUAL / FORECAST BASE LINE																		
A616	A616	TRACKWORK-DIRECT FIXATION FASTNER SPECIFICATIONS		DESIGN REVIEW	ACTUAL / FORECAST BASE LINE																		
				COST ESTIMATE REVIEW	ACTUAL / FORECAST BASE LINE																		
				BID DOCUMENT REVIEW	ACTUAL / FORECAST BASE LINE																		
A617	A617	TRACKWORK-RAIL WELDING SPECIFICATIONS		DESIGN REVIEW	ACTUAL / FORECAST BASE LINE																		
				COST ESTIMATE REVIEW	ACTUAL / FORECAST BASE LINE																		
				BID DOCUMENT REVIEW	ACTUAL / FORECAST BASE LINE																		

LEGEND:



REVIEW STATUS

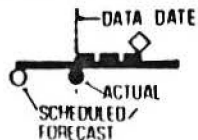
- 30%
- 60%
- △ 85%
- 100%
- ◇ SUBMITTAL TO RTD

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

SYSTEMS
(DESIGN, ESTIMATE AND BID DOCUMENT REVIEW SCHEDULE)

CONTRACT NUMBER		DESCRIPTION	RESPON- SIBILITY	TASK	SCHED.	AUGUST					SEPTEMBER				OCTOBER				NOVEMBER				
DESIGN	CONST.					3	10	17	24	31	7	14	21	28	5	12	19	26	2	9	16	23	30
A620	A620	AUTOMATIC TRAIN CONTROL		DESIGN REVIEW	ACTUAL / FORECAST BASE LINE																		
				COST ESTIMATE REVIEW	ACTUAL / FORECAST BASE LINE																		
				BID DOCUMENT REVIEW	ACTUAL / FORECAST BASE LINE																		
A640	A640	COMMUNICATIONS		DESIGN REVIEW	ACTUAL / FORECAST BASE LINE																		
				COST ESTIMATE REVIEW	ACTUAL / FORECAST BASE LINE																		
				BID DOCUMENT REVIEW	ACTUAL / FORECAST BASE LINE																		
A612 A615 A630 A631	A612 A615 A630 A631	TRACTION POWER		DESIGN REVIEW	ACTUAL / FORECAST BASE LINE																		
				COST ESTIMATE REVIEW	ACTUAL / FORECAST BASE LINE																		
				BID DOCUMENT REVIEW	ACTUAL / FORECAST BASE LINE																		
A650	A650	PASSENGER VEHICLE		DESIGN REVIEW	ACTUAL / FORECAST BASE LINE																		
				COST ESTIMATE REVIEW	ACTUAL / FORECAST BASE LINE																		
				BID DOCUMENT REVIEW	ACTUAL / FORECAST BASE LINE																		
A671 THRU A678	A671 THRU A678	AUXILIARY VEHICLES		DESIGN REVIEW	ACTUAL / FORECAST BASE LINE																		
				COST ESTIMATE REVIEW	ACTUAL / FORECAST BASE LINE																		
				BID DOCUMENT REVIEW	ACTUAL / FORECAST BASE LINE																		
A660	A660	FARE COLLECTION		DESIGN REVIEW	ACTUAL / FORECAST BASE LINE																		
				COST ESTIMATE REVIEW	ACTUAL / FORECAST BASE LINE																		
				BID DOCUMENT REVIEW	ACTUAL / FORECAST BASE LINE																		

LEGEND:



REVIEW STATUS

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

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



LOS ANGELES METRO RAIL
CONTRACT PERFORMANCE
REPORT

PDCD

PERIOD September 1984

V. COST PERFORMANCE

The Annual Work Plan, Contract Amendment, and revised scope of Phase I were approved by the RTD late in August. The Annual Work Plan was reviewed, and the detail cost (including applicable overhead, payroll burdens, and fees) was determined on a time-phased basis. Although the total plan cost did not change, the mix ratio caused a slight shift in costs between the monthly periods.

While the underrun to date results primarily from a slower staffing rate than planned, the underrun is regarded as a reserve to be used only at the discretion of PDCD management.



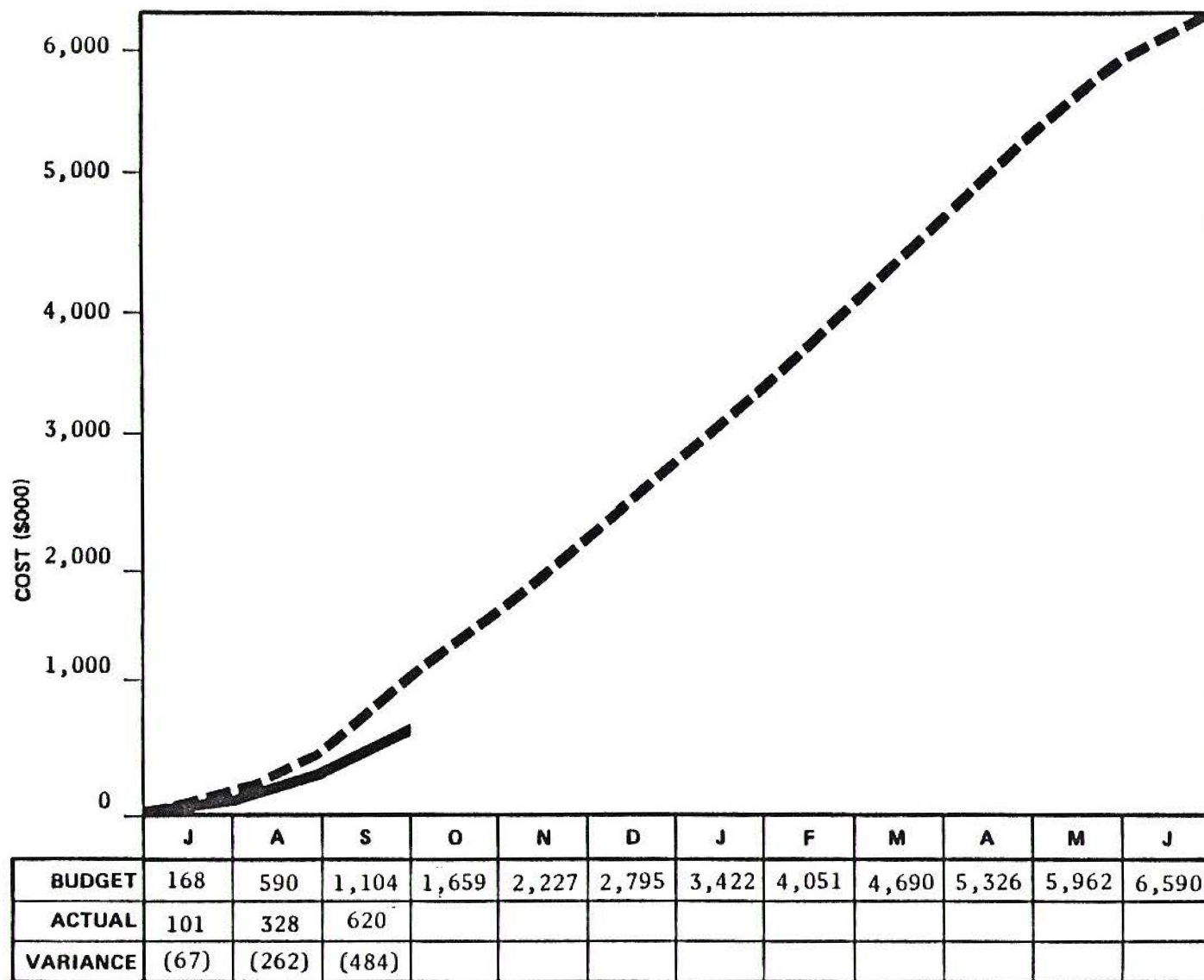
LOS ANGELES METRO RAIL
CONTRACT PERFORMANCE
REPORT

PDCD

PERIOD September 1984

CM Cost Performance - September 1984
(\$000)

PDCD	Planned	Actual	Variance	%
Labor, Burdens, Fee				
Cum Aug	370	265	(105)	(28)
Sept	256	180	(76)	(30)
Cum to Date	626	445	(181)	(29)
Travel and ODCS				
Cum Aug	116	51	(65)	(56)
Sept	115	59	(56)	(49)
Cum to Date	231	110	(121)	(52)
Subcontractors				
Cum Aug	104	12	(92)	(88)
Sept	143	53	(90)	(63)
Cum to Date	247	65	(182)	(74)
Total Cost				
Cum Aug	590	328	(262)	(44)
Sept	514	292	(222)	(43)
Cum to Date	1,104	620	(484)	(41)
Hours				
Cum Aug	10,758	6,336	(4,422)	(41)
Sept	9,055	5,890	(3,165)	(35)
Cum to Date	19,813	12,226	(7,587)	(38)



LEGEND:
 - - - - - BUDGET
 _____ ACTUAL

Figure 6 - PCD Cost Performance

MANHOURS BY FUNCTIONAL DEPARTMENT

		Jul	Cumula- tive	Aug	Cumula- tive	Sep	Cumula- tive	Oct	Cumula- tive	Nov	Cumula- tive	Dec	Cumula- tive	Jan	Cumula- tive	Feb	Cumula- tive	Mar	Cumula- tive	Apr	Cumula- tive	May	Cumula- tive	Jun	Cumula- tive
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																		
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																		
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			-	-	-	-																		
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																		
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																		
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																		
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																		
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																		
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																		
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																		
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	2,008.00	628.00	7,536.00
	Actual	198.00	198.00	452.00	650.00	371.50	1,021.50																		
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	417.00	3,611.00	471.00	4,082.00
	Actual			120.00	120.00	152.00	272.00																		
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																		
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																		
Other Direct Labor																									
Home Office Support		Actuals																							
R. M. Parsons Procurement & Contracts Admin. and Acctg. Technical Publication and Repro.		50.00	50.00	42.50	92.50	24.00	116.50																		
		29.00	29.00	54.00	83.00	27.00	110.00																		
		-	-			243.00	243.00																		
		51.50	51.50	154.00	205.50	77.00	282.50																		
Deleuw, Cather Admin. and Acctg. Technical		18.00	18.00	-	18.00	4.00	22.00																		
		-	-			472.00	472.00																		
Dillingham Technical			-	-																					
S/T			148.50	148.50	250.50	399.00	847.00																		
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																		



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VI. SUMMARY OF ACTIVITIES IN SEPTEMBER

Planned progress was achieved on those items scheduled in the August Contract Performance Report with the exception of the following items where changes or delays occurred:

1. The Metro Rail Seminar was postponed to October 6.
2. The Conference of Minority Transportation Officials in Washington, D. C., was not attended because of work conflicts.
3. Training on TRACS cannot begin because of delays in system readiness.

A. Administration and Accounting

1. Completed Administration and Personnel procedures and submitted Administration Manual to RTD.
2. Completed relocation to project for E. Martins, J. York, and W. Robertson.
3. Brought six personnel on board.
4. Prepared requisitions and submitted resumes and salaries to RTD for approval for seven personnel.
5. Formalized billings to client and submitted on schedule.
6. Submitted request to RTD for an office PC with accounting software and for two DECmate II Word Processors.

B. Quality Assurance

1. Completed internal review of draft QA/QC procedures.

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2. Submitted draft procedures to RTD for comments.
3. Reviewed portions of technical specifications affecting quality.
4. Reviewed draft project procedures for compatibility with QA/QC requirements.
5. Coordinated completion and review of Resident Engineers Manual, Safety and Security Manual, and Organization and Responsibilities Manual.



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C. Equal Opportunity Administration

1. Postponed Metro Rail Seminar to October 6, 1984. Several planning meetings at SCRTD were attended to discuss the content of the seminar.
2. Held meetings with Hispanic elected officials and their staff regarding the SCRTD seminar to encourage DBE/WBES in their districts to attend.
3. Prepared construction management material for the RTD seminar to be included in an informational binder to the seminar participants.

D. Contracts and Procurement

1. Negotiated price, terms, and conditions and issued NTPs to Jacobs Associates, Engineering-Science, Dames & Moore, Hayakawa Associates, and Martin & Huang International.
2. Transmitted subcontracts to Better Personnel Employment Service, Construction Control Services Corporation, Hayakawa Associates, and Vanir Construction Management, Inc., for signature. All were returned without exception.
3. Prepared consent packages for the Hayakawa Associates, Construction Control Services Corporation, and Vanir Construction Management, Inc., subcontracts, and submitted the Hayakawa Associates package to SCRTD for approval.
4. Developed an initial draft for the following procedures:
 - Purchasing
 - Formal Advertised Procurement
 - Negotiated Procurement
 - Contract Administration
 - Source Lists
 - Socioeconomic Program
 - Standard of Conduct
 - Contract Administration - Prime Contract

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5. Reviewed Resident Engineer's Procedure Manual and participated in review meetings.
6. Completed negotiation of leases for automobiles and entered into lease agreements.
7. Negotiated an increase in CCSC's level of effort.

E. Community Relations

1. The Community Relations Manager joined the staff in September.
2. Began familiarization with Community Relations aspects of the project.
3. Attended introductory meeting with RTD's Manager of Community Relations.
4. Prepared draft of areas of responsibility for consideration at meeting with RTD.

F. Safety

1. Completed first draft Safety/Security Construction Manual. Submitted to RTD for review.
2. Completed Safety Monitoring procedures for construction. Incorporated as a part of the Construction Manual.
3. Began draft of Tunnel Gas Ventilation Study.
4. Attended biweekly Fire and Life Safety Committee meetings to review plans and specifications for the system.
5. Met with CAL-OSHA to develop needs and requirements for tunnel construction and qualifications of safety personnel in tunnel, contractor requirements, etc.



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G. Construction and General Services

1. Met with MRTC to agree on construction sequencing in existing AMTRAK/Santa Fe yards at Union Station. Made a joint presentation with MRTC to RTD on recommended sequencing.
2. Continued reviews of plans and specifications in accordance with schedule.
3. Consulted with RTD on use of tiebacks as internal support for the Phase I A-142 excavation contract at Civic Center.
4. Made recommendations for line items in bid schedules and joined in meeting with RTD on this matter.
5. Consulted with RTD on responses to third-party questions concerning environmental assessment of MOS-1.
6. Participated in advance meetings with Utilities to ensure that their rearrangements on A-142 would proceed smoothly.
7. Attended RTD/MRTC/TTC meeting to evaluate profile lowering at Hollywood Bowl.
8. Accomplished constructibility reviews on all packages in process.
9. Prepared detailed review of Resident Engineer's Procedures Manual.
10. Attended MRTC/RTD vehicle design review meeting, which discussed pertinent industry review comments.

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11. Met with RTD Director of Systems Design to become familiar with systemwide organizational responsibilities and to establish working relationships.

H. Engineering Services

1. Finalized relocation to Pasadena of Manager of Engineering Services and Lead Geotechnical Engineer.
2. Continued staffing in accordance with first AWP. During September, the Lead Architect and one Structural Engineer came on board. Pending hiring of Mechanical Engineer and Lead Electrical Engineer by the subcontractor, utilized staff from Parsons on a temporary basis to meet immediate needs.
3. Conducted full-scale review of criteria and standard and directive drawings between September 17 and 28 with considerable input from a task force of experts authorized by RTD.
4. Conducted constructibility review of 100% plans for Contract A-114 (received 9/19, submitted 9/28).
5. Submitted constructibility review comments on 60% submittal of Contract A-220, Wilshire/Western Station, Stage I.
6. Conducted constructibility review of 60% plans for Contract A-350 (received 9/17, comments to be submitted 10/1/84).
7. Constructibility reviews of 85% plans of Contract A-220 (tunnel only) and 60% of A-220 (Wilshire/Normandie Station, Stage I) were not conducted because documents were not received for review (as of 9/28).
8. Submitted constructibility review comments for Contract A-145, Universal City Station (received 8/21, comments submitted 9/19).
9. Review of special trackwork plans and specifications (Contract A-614).
10. Assisted in development of Union Station sequencing recommendations (per letter CM-MR-98, dated 9/6/84).

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11. Participated in review of Resident Engineer's Manual.
12. Began review of Seismic Criteria.
13. Analyzed geological conditions and tunneling types in Design Section A-410, and drafted alternative for measurement and payment for tunneling in different materials (for further discussion).
14. Analyzed tunneling conditions and limits at the Fernando/Duarte soft rock formation for use in determining probable types of excavation equipment.
15. Geotechnical Engineer researched geology of Sections A-135, A-425, and A-130 for use by other members of the CM team.
16. Researched standard specifications and outlined all geotechnical instrumentation types and organizations responsible for them.
17. Performed intensive research on detection of unmapped well casings in alignment of tunnel heading.

J. Project Controls

1. Continued development of the Construction Work Breakdown Structure and its relationship to construction estimates, bid schedules, progress reporting, and change orders. Held review meetings with SCRTD and MRTC.
2. Test loaded the WBS into the 8 levels of the TRACS budgeting module.
3. Prepared construction task dictionary.
4. Develop detailed time-phased cost status reports (plan versus actual) for the CM organization.
5. Completed first draft of the cost and scheduling procedures.
6. Reviewed and commented on the scheduling portion of the A-114 bid packaging.



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7. Reviewed Resident Engineers Manual for compatibility with proposed cost, scheduling, and estimating system.
8. Reviewed preliminary MRTC construction schedules for construction compatibility.
9. Coordinated implementation of TRACS hardware/software in CM office. Submitted application for five user ID codes and received two security-cleared codes for operating system and one code for test module.
10. Conducted TRACS orientation with CM staff.
11. Attended RTD Construction Readiness and MOS-1 status meetings.



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VII. PLANNED ACTIVITIES IN OCTOBER

A. Administration and Accounting

1. Review and incorporate RTD comments into the Administration and Personnel Procedures.
2. Continue developing Finance procedures and procedures for downtown office.
3. Revise and resubmit secretarial manual.
4. Assist in relocation arrangements for additional personnel as required.
5. Continue assistance in submitting qualifications to RTD for approval, bringing personnel on board, preparing TAs, reviewing expense reports, and keeping personnel records and reports up to date.
6. Pending RTD approval of the proposed IBM PC and accounting software, purchase the items, install the system, and initiate training.

B. Quality Assurance

1. Incorporate RTD comments on QA/QC Procedures Manual, and submit in final form to RTD.
2. Review, upon receipt, the Standard Procurement Quality Requirements, and provide comments to RTD.
3. Review and submit comments on technical specifications affecting quality.
4. Coordinate completion and submittal to RTD of remaining procedures manuals.

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C. Equal Opportunity Administration

1. Continue meetings with minority trade associations on contract opportunities with Metro Rail.
2. Attend the RTD seminar on October 6.
3. Attend CAMAC and COMTO fund raising events on behalf of PDCD.
4. Continue reporting on minority employment status and DBE/WBE status.

D. Contracts and Procurement

1. Negotiate terms/conditions and price and issue NTP to the remaining subcontractors.
2. Prepare and submit consent packages for those subcontracts not already submitted.
3. Finalize procedures for submittal to RTD.

E. Community Relations

1. Continue familiarization with Community Relations aspect of the project.
2. Establish goals and develop specific guidelines for CM activities in accordance with RTD requirements.
3. Visit initial construction sites.
4. Begin developing the Community Relations procedures manual.

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F. Safety

1. Continue planning and review activities with Fire/Life Safety Committee.
2. Meet with Cal-OSHA Tunnel Division in Santa Barbara for possible development of safety training for PDCD personnel on gassy tunnel operations.
3. Complete tunnel gas ventilation review.
4. Meet with LAPD, County Sheriff's office, and Los Angeles Fire Department and County Fire Department regarding tunnel construction.

G. Construction and General Services

1. Continue to work with RTD and MRTC on construction packaging and phasing, concentrating on early packaging of MOS-1, and provide recommendations as requested.
2. Continue constructibility reviews.
3. Complete procedures development.
4. Meet with remaining utilities and agencies involved in A-142.
5. Research permit requirements.
6. Review systems contract interfaces.
7. Orient new staff members.



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II. Engineering Services

1. Perform constructibility reviews on planned contracts, and partial reviews as requested.
2. Submit comments on technical specifications received on 9/17 and 9/19 (4 sets).
3. Submit comments on Environmental Control System Report.

J. Project Controls

1. Continue development of Construction Work Breakdown Structure.
2. Input to and test both Construction and PDCD Work Breakdown Structure.
3. Develop reporting formats for both Construction and PDCD.
4. Prepare draft copy of Project Controls Procedures Manual.
5. Prepare flow charts of all control activities.
6. Develop change order control procedure.
7. Begin formal training on TRACS systems.
8. In conjunction with MRTC, develop standard estimating line-item breakdown.
9. Continue testing of TRACS for compatibility with proposed project control plan.
10. Review and comment on preliminary MOS-1 construction schedules.
11. Continue participation in RTD and MRTC regular meetings.

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VIII. AREAS OF CONCERN

There are no major areas of concern.