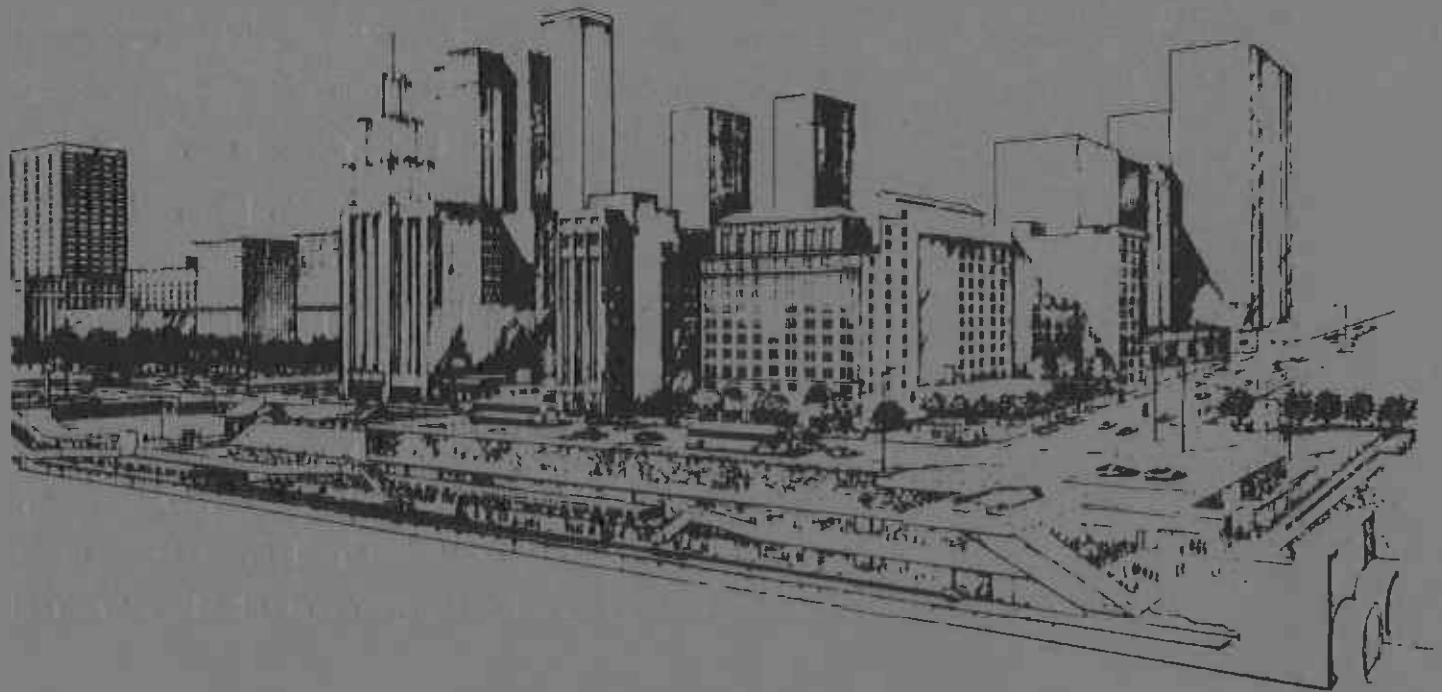


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No. 9



PDCD

LOS ANGELES **METRO RAIL** PROJECT JOINT VENTURE BOARD MEETING NUMBER 9



MAY 27, 1987

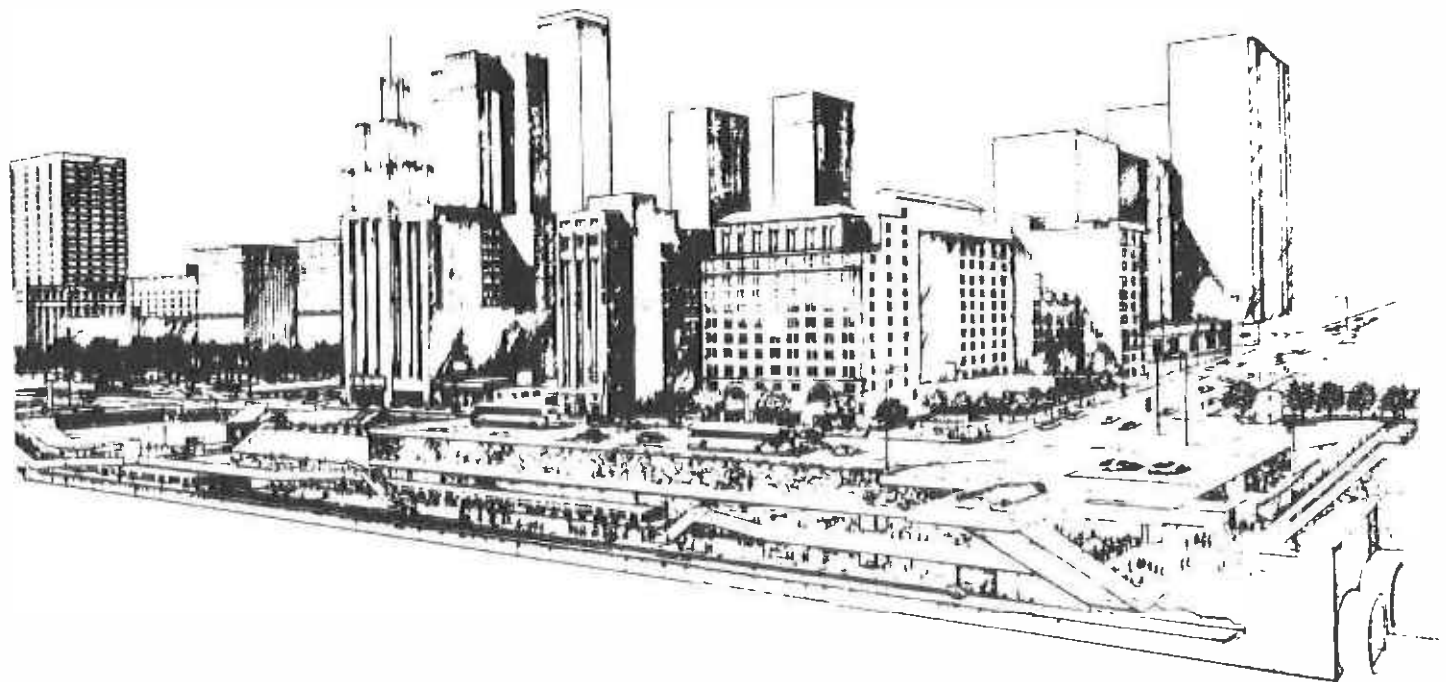
Parsons-Dillingham-De Leuw, Cather

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



PDCD

LOS ANGELES **METRO RAIL** PROJECT JOINT VENTURE BOARD MEETING NUMBER 9



MAY 27, 1987

Parsons-Dillingham-De Leuw, Cather

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

RTD



PDCD

**JOINT VENTURE
EXECUTIVE BOARD MEETING
MAY 27, 1987**

PDCD EXECUTIVE BOARD

**R.W. JUDSON
(CHAIRMAN)**

**PRESIDENT
THE RALPH M. PARSONS COMPANY**

J.M. JACOBS

**PRESIDENT
DILLINGHAM CONSTRUCTION, N.A., INC.
HEAVY DIVISION**

R.S. O'NEIL

**SENIOR VICE PRESIDENT
DE LEUW, CATHER & COMPANY**



PDCD

AGENDA

Project Overview

M.L. Polacek

Operations

H.C. Scott

Project Controls/Eng'r Services

W.H. George

Project Administration

C.A. Matar

Summary

M.L. Polacek

Comments/Direction by JVEB

R.W. Judson

Comments from RTD

LUNCH



PDCD

PROJECT OVERVIEW



PDCD

HIGHLIGHTS OF METRO RAIL PROGRAM SINCE 9/30/86 JVEB MEETING

- **Funding for MOS-1 resolved.**
- **Required advance utility work by utilities completed to accomodate construction contracts.**
- **One-way Street Program activated in CBD.**

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HIGHLIGHTS OF METRO RAIL PROGRAM SINCE 9/30/86 JVEB MEETING (Contd)

- **10 contracts awarded and construction commenced.**
- **3 contracts completed.**
- **RE offices established at 4 sites.**
- **RTD delegation of authority implemented.**
- **Surface Transportation Act enacted.**



PDCD

HIGHLIGHTS OF METRO RAIL PROGRAM SINCE 9/30/86 JVEB MEETING (Contd)

- **9 CM Manuals finalized & issued.**
- **Construction "Emergency Response Plan" developed and implementation in-process.**
- **3 Systemwide Contracts RFP's issued.**
- **Realignment at Union Station.**



PDCD

PERFORMANCE SUMMARY**1st, 2nd & 3rd AWP thru April 24, 1987
Cost* and Hourly Expenditures**

Description	1st AWP		2nd AWP		3rd AWP - 4/24/87		Total Actual 4/24/87
	Planned	Actual	Planned	Actual	Planned	Actual	
Joint Venture Labor, Burden, Fee	3,300	2,856	3,128	3,102	3,355	3,207	9,165
Travel, ODC	1,260	1,127	1,179	627	872	793	2,547
Subcontractors	2,030	1,059	1,637	1,847	1,784	1,586	4,492
Total	6,590	5,042	5,944	5,576	6,011	5,586	16,204
Hours	124,493	93,089	115,395	113,393	111,463	103,199	309,681

* In (\$000s)

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DELEGATION OF AUTHORITY

- **J. Dyer Memo of 4/10/87**
 - **Delegation of authority within RTD**
 - **C.O. Procedure**

- **Maynard Walters' letter (Dalton's Attorney)**
 - **Defined R.E. Authority/Responsibilities.**

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STATUS OF 4TH AWP

- **Initial PDCD Proposal submitted on 5/1/87.**
- **Started RTD/PDCD Negotiations on 5/18/87.**
- **Finalize RTD/PDCD Negotiations on 5/26/87.**
- **Obtain RTD Board approval on 6/11/87.**



PDCD

OPERATIONS



STATUS OF THE CONSTRUCTION PROGRAM ^{PDCD}

SUMMARY OF MOS-1 CONTRACTS (FACILITIES)

<u>CONTR. NO.</u>	<u>TITLE</u>	<u>BID \$(000's)</u>	<u>NTP</u>
<u>Contracts Completed</u>			
A-123	Demo. - Westransco Bldg.	249	11/24/86
A-172	Demo. - W. 7th St. Structure	26	1/12/87
A-173	Demo. - Alvarado Structure	67	1/19/87
<u>Contracts in Progress</u>			
A-121	MOW Building	1,670	2/27/87
A-134	Demo. - Vignes Struc.	79	5/14/87
A-141	C/C & U/S to 5/H	61,472	3/16/87
A-145	5/H stage I	38,669	4/2/87
A-146	5/H to 7/F	18,222	4/6/87
A-161	7/F stage I	3,253	1/19/87
A-171	7/F to W/A	26,340	2/2/87
<u>Contracts - Bal. 3rd AWP</u>			
A-165	7/F Stage I	37,808	6/8/87



PDCD

STATUS OF THE CONSTRUCTION PROGRAM SUMMARY OF MOS-1 CONTRACTS (FACILITIES)

<u>CONTRACT NO.</u>	<u>TITLE</u>	<u>FINANCIAL PLAN \$(000's)</u>	<u>SCHEDULED NTP</u>
<u>Contracts - 4th AWP</u>			
A-112	Main Shop Bldg.	20,000 to 24,000	9/14/87
A-130	Yard Leads/Transfer Zone	58,000 to 70,000	5/6/88
A-135	U/S stage I	50,000 to 60,000	10/2/87
A-175	W/A Stage I	32,000 to 38,000	7/10/87



PDCD

STATUS OF THE CONSTRUCTION PROGRAM SUMMARY OF MOS-1 CONTRACTS (SYSTEMS)

<u>CONTRACT NO.</u>	<u>TITLE</u>	<u>FINANCIAL PLAN \$(000's)</u>	<u>SCHEDULED NTP</u>
A-610	Trackwork Install.	11,000 to 14,000	12/22/87
A-616	Dir. Fix. Fasteners	1,500 to 1,700	8/10/87
A-620	Auto. Train Control	20,000 to 24,000	12/31/87
A-640	Communications	20,000 to 24,000	2/24/88
A-710	Escalators	10,000 to 13,000	3/4/88
A-740	Ventil. Equip.	7,500 to 9,000	9/24/87
A-745	Air Handling Equip.	200 to 250	10/19/87



PDCD

STATUS OF CONSTRUCTION PROGRAM

Contract A-121: Maintenance of Way Bldg.

Description: MOW Bldg. Construction

Contractor: Mega Construction Co.

Amount: \$1,669,600

NTP: 2/27/87

**Status: Mobilized
Submittals on-going for approval
Demolition underway**

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STATUS OF THE CONSTRUCTION PROGRAM

**Contract A-141: U/S to 5/H Line section
Civic Center Stage I**

Description: 10,000' of tunnel & C/C station - Stage I

Contractor: Tudor-Saliba Corp.

Amount: \$61,471,225

NTP: 3/16/87

**Status: Field office set-up/staging area fenced
2 change orders under negotiation
Initial submittals in process**



PDCD

STATUS OF THE CONSTRUCTION PROGRAM

Contract A-145/A-145A: 5/H station, Stage I

**Description: Construct station, Stage I
Vault removal, utilities relocation**

Contractor: G.F. Atkinson Const. Co.

Amount: \$38,669,025

NTP: 4/2/87

**Status: Developing work site facilities
Staging area set-up
Mobilization**



PDCD

STATUS OF THE CONSTRUCTION PROGRAM

Contract A-146: Line Section - 5/H to 7/F

Description: Tunneling - 5/H to 7/F

Contractor: Shank-Ohbayashi

Amount: \$18,221,820

NTP: 4/6/87

**Status: Initial tunnel support submittals
Initial construction meeting
Other submittals in process**

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STATUS OF THE CONSTRUCTION PROGRAM

PDCD

Contract A-161: 7/F utility rearrangement

Description: Utility relocations for 7/F Station

Contractor: Dalton Const. Co.

Amount: \$3,252,500

NTP: 1/19/87

**Status: Mobilized; Field office established
Telephone duct relocation completed
Electrical duct work underway
Construction of 2 manholes started**



PDCD

STATUS OF THE CONSTRUCTION PROGRAM

Contract A-171: Line section, 7/F to W/A

Description: Tunnel Construction

Contractor: Shank-Ohbayashi

Amount: \$26,340.078

NTP: 2/2/87

**Status: Field office complete
Initial submittals under review
Safety/Security Program approved**



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PROJECT CONTROLS/ ENGINEERING SERVICES

Parsons-Dillingham-De Leuw, Cather



MOS-1 CONTRACT ACTIVITY

PD CD

CONTRACT ITEM	TOTAL TO 4/24/87	
	PLAN	ACTUAL
Construction		
Advertised:		
No. of contracts	19	14
Financial plan value (\$000)	522,077	341,662
NTP issued:		
No. of contracts	11	9
NTP value (\$000)	298,464	149,966
Master Agreements		
No. of work orders issued	33	33
Value (\$000)	5,242	5,263
Total	303,706	155,229
Remaining Construction Budget	353,333	501,810
Total Construction Budget	657,039	657,039

**PDCD**

CONTRACT BUDGET/BID COMPARISON

CONTRACT NO.	NO. OF BIDDERS	RANGE OF BIDS	LOW BID \$	FINANCIAL PLAN BUDGET \$	VARIANCE \$ OVER(UNDER) TO FINANCIAL PLAN
A-121	7	1,458,459-2,049,000	1,669,600	2,213,000	(543,400)
A-123	4	248,675-459,997	248,675	276,000	(27,325)
A-134	3	78,575- 115,000	78,575	104,000	(25,425)
A-141	8	61,471,225-80,821,015	61,471,225	89,109,000	(27,637,775)
A-145/145A	6	38,669,025-47,963,750	38,669,025	44,020,000	(5,350,975)
A-146	8	18,221,820-25,056,000	18,221,820	22,105,000	(3,883,180)
A-161	5	3,202,500-5,660,600	3,252,500	4,076,000	(823,500)
A-165	8	37,807,870-58,144,040	37,807,870	55,094,000	(17,286,130)
A-171	10	26,340,078-41,954,130	26,340,078	43,068,000	(16,727,922)
A-172	3	26,000- 98,875	26,000	90,000	(64,000)
A-173	3	66,700-108,000	66,700	182,000	(115,300)
TOTAL TO DATE			187,852,068	260,337,000	(72,484,932)



MASTER AGREEMENT STATUS REPORT

PDCD

(\$000)

NO.	UTILITY	ORIGINAL BUDGET \$	CURRENT BUDGET \$	% COMP	VALUE OF WIP
A09	DWP - Water System	759	759	41%	311
002	City of Los Angeles	1,286	1,286	54%	691
007	Pacific Bell	1,358	1,389	52%	718
008	Western Union	35	35	0%	0
009	DWP - Power System	1,422	1,422	38%	539
093	So. Cal. Gas	267	267	21%	55
094	County of Los Angeles	50	50	80%	40
533	Communicom	65	55	0%	0
	Total	5,242	5,263		2,354

As of: 4/24/87



PDCD

CONSTRUCTION CONTRACT STATUS REPORT

(\$000)

NO.	CONTRACT	AWARD VALUE	ADJUSTED CONTRACT VALUE	% COMP.	VALUE OF WIP
A-121	MOW Shop Bldg.	1,670	1,670	0%	0
A-123	Demo. - Westransco Bldg.	249	249	100%	249
A-141	Line Section, U/S - 5/H	61,471	61,471	< 1%	448
A-145/ A-145A	5/H Station	38,669	38,669	< 1%	182
A-146	Line Section, 5/H - 7/F	18,222	18,222	< 1%	27
A-161	7/F Utility Rearrangement	3,253	3,259	20%	663
A-171	Line Section, 7/F - W/A	26,340	26,340	< 1%	138
A-172	Demo. - Bembi Market	26	26	100%	26
A-173	Demo. - 7th/Alvarado	67	67	100%	67
	Totals	149,967	149,973		1,800

As of: 4/24/87

Parsons-Dillingham-De Leuw, Cather



CHANGES STATUS SUMMARY

<u>1</u> <u>Construction Contract</u>	<u>2</u> <u>Engineers Estimate</u> \$	<u>3</u> <u>Award Amount</u> \$	<u>4</u> <u>Change Orders</u> \$	<u>5</u> <u>Pending Changes</u> \$
9	234,751,500	187,852,068	6,500	12,860,700

- 24 Change Requests have been processed by PDCD
- 20 Change Notices have been issued by RTD
- Scope change for one tunnel/station contract has a projected cost of \$12,750,000



CHANGE PROCEDURE

Change Request



**PREPARE
CHANGE
REQUEST PACKAGE**

Change Notice



**PREPARE
CHANGE
ORDER PACKAGE**

Change Order



Approvals

**CM
RTD**

Approvals

**CM
RTD**

Approvals

RTD



PDCD

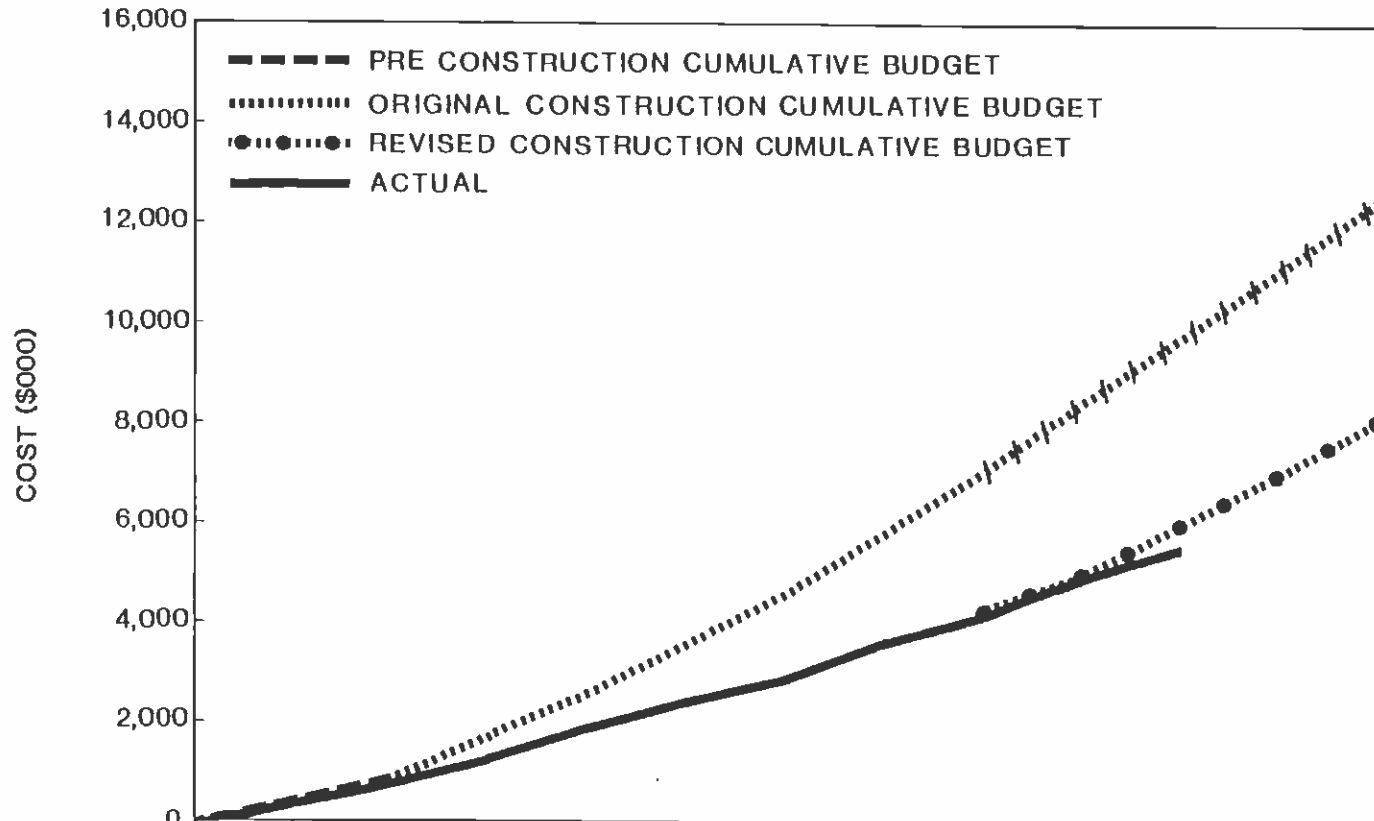
DELEGATION OF RTD AUTHORITY

<u>Change Value</u>	<u>Authorization by</u>
To \$10,000	Project Engineer
To \$25,000	Director of Construction
To \$50,000	Assistant General Manager
To \$100,000	Director, Office of Contract Procurement, Materiels
Over \$100,000	SCRTD Board of Directors



PDCD CUMULATIVE COST PERFORMANCE

PDCD



		JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN
		1986						1987					
PRE CONSTRUCTION	BUDGET	466	932										
	ACTUAL	398	911										
ORIGINAL CONSTRUCTION	BUDGET			1,839	2,649	3,618	4,668	5,867	7,141	8,434	9,785	11,167	12,564
	ACTUAL			1,359	1,999	2,456	2,947	3,630	4,239	4,916	5,586		
REVISED CONSTRUCTION	BUDGET									5,043	6,011	7,061	8,156
	ACTUAL									4,916	5,586		



PDCD

PROJECT ADMINISTRATION



PDCD

COMMUNITY RELATIONS ACTIVITIES

- **Activated the Project Streetwise Hotline and publicity program.**
- **Site preparation for Information Centers.**
- **Extensive Community Outreach.**
- **Complaint/Inquiry response.**



PDCD

COMPLAINT/INQUIRY STATUS (thru April, 1987)

Primary Concern: Access for A161 & A145

**Resolution: RTD, WTCP, LADOT, LAPD, REs,
Contractors and CR Coordination.**

Complaints:	Received	56
	Resolved	56

Inquiries:	Received	64
	Replies	64

Total		120
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EQUAL OPPORTUNITY

- **Conducted onsite interviews and reviews for EO contract compliance for all active contracts.**
- **Presented EO contract compliance briefings at all the Initial Preconstruction Conferences.**
- **Attended monthly Construction Progress Review Meetings for all active contracts.**



PDCD EQUAL OPPORTUNITY

PDCD

TOTAL CUMULATIVE BURDENED LABOR BASIS
 PERIOD: JULY 6, 1984 THROUGH APRIL 24, 1987

ITEM	GOAL	CUM. %		CUM. %		CUM. %		TOTAL PROJECT CUM. % TO 4/87	VAR. +/-
		1ST AWP	VAR. +/-	2ND AWP	VAR. +/-	3RD AWP*	VAR. +/-		
DISADVANTAGED BUSINESS ENTERPRISE	17%	19.2	+2.2	24.2	+7.2	20.1	+3.1	21.2	+4.2
WOMAN-OWNED BUSINESS ENTERPRISE	3%	5.7	+2.7	7.0	+4.0	5.5	+2.5	6.1	+3.1
MINORITY AFFIRMATIVE ACTION	17%	28	+11	30	+13	30	+13	29.3	+12.3
WOMEN AFFIRMATIVE ACTION **	8%	15	+7	14	+6	17	+9	15.3	+7.3

* JULY 1986 THROUGH APRIL 24, 1987.

** THE AFFIRMATIVE ACTION GOAL FOR WOMEN WAS INCREASED FROM 3% TO 8%, EFFECTIVE FEB. '85, 1ST AWP.

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EQUAL OPPORTUNITY STATUS REPORT CONSTRUCTION PROGRAM (Thru April 1987)

PDCD

CONTRACT NO.	CONTRACT DESCRIPTION	COMMITMENT IN BID (%)		ACCOMPLISHMENTS (%)				REMARKS
		DBE	WBE	DBE	WBE	AFFIRM. ACTION		
						MIN.	WOMEN	
A-123	Demo. - Westransco Bldg.	20	10	10.2	4.3	70%	0%	Completed
A-172	Demo. - Bembi Market	19	9.5	12.7	8.5	75%	0%	Completed
A-173	Demo. - 7th/Alvarado	19	9.5	24.9	3.2	76%	0%	Completed
A-161	7/F Utility Rearrangement	18	4	2.6	0.6	65%	0%	15% Comp.
A-121	MOW Building	26.6	5.3	-	-	-	-	Not started
A-171	Line Section 7/F to W/A	20.3	4.1	-	-	-	-	Not started
A-141	Line Section U/S to 5/H Stage I	18.1	4	-	-	-	-	Not started
A-145A/ A-145	5/H Utility Reloc. & Vault Modif. & 5/H Stage I	18	4	-	-	-	-	Not Started

Established Goals:

DBE - 18%, WBE - 4%, Minority - 28.3%, Women - 6.9%



PDCD

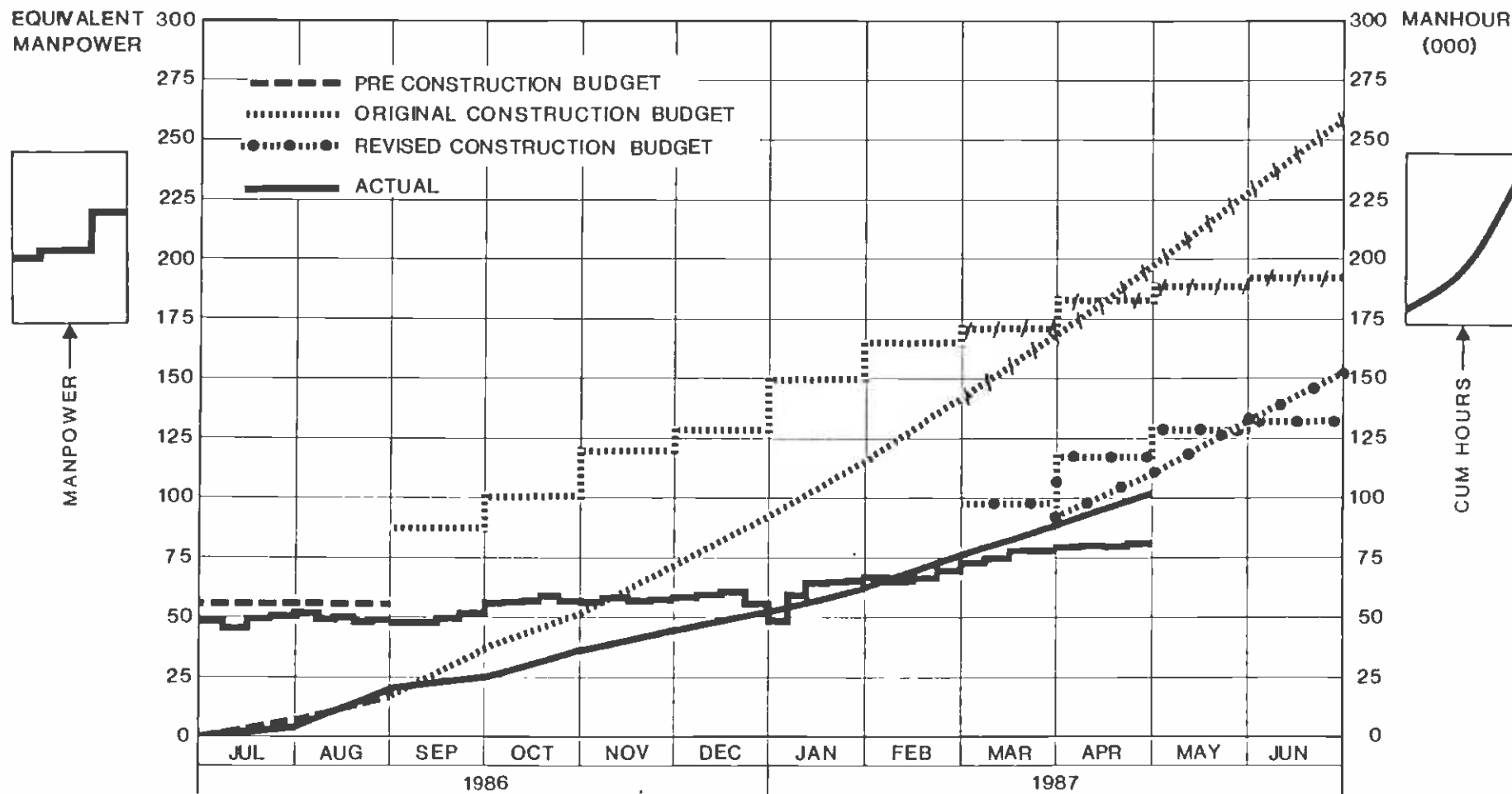
PDCD STAFFING - 3RD AWP (THRU 4/24/87)

	Const. Ops.	Support Services	Total
J.V. Firms	26	32	58
Assoc. Subcont.	8	20	28
Total	34	52	86



PDCD

PDCD MANPOWER

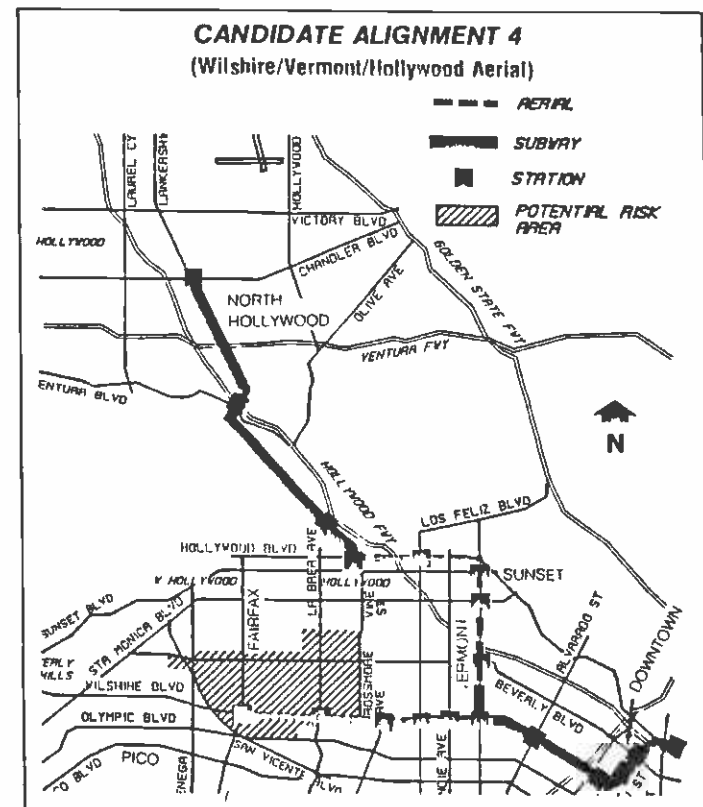
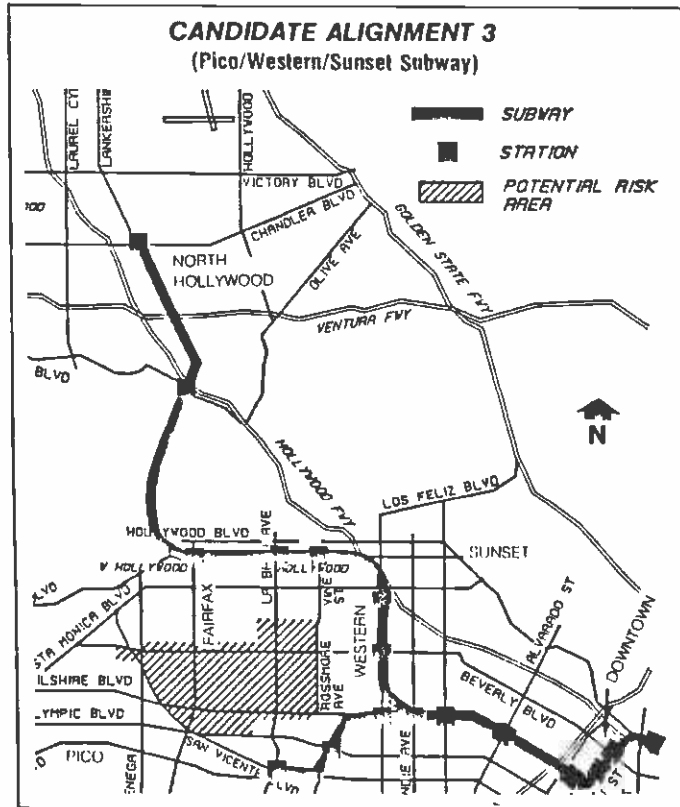
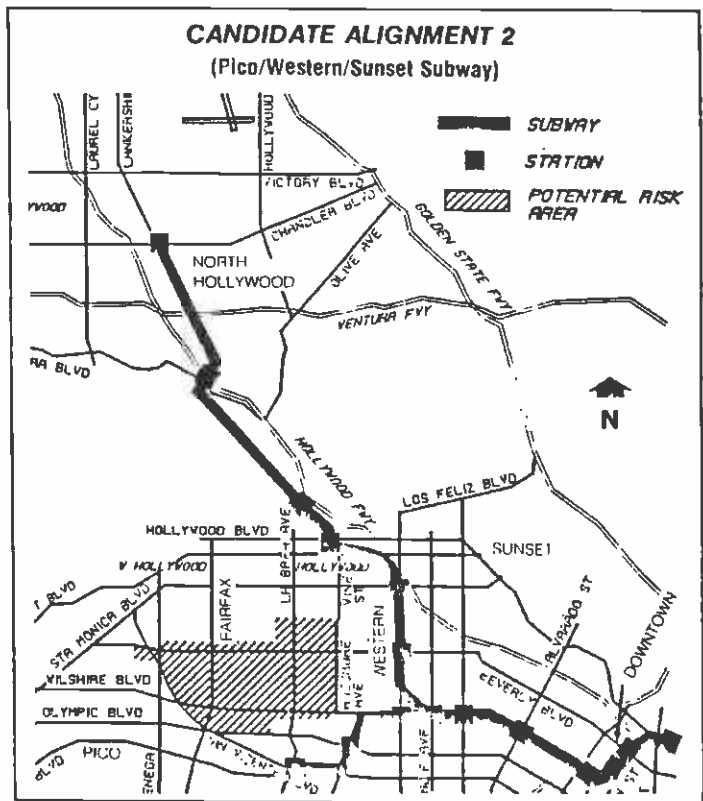
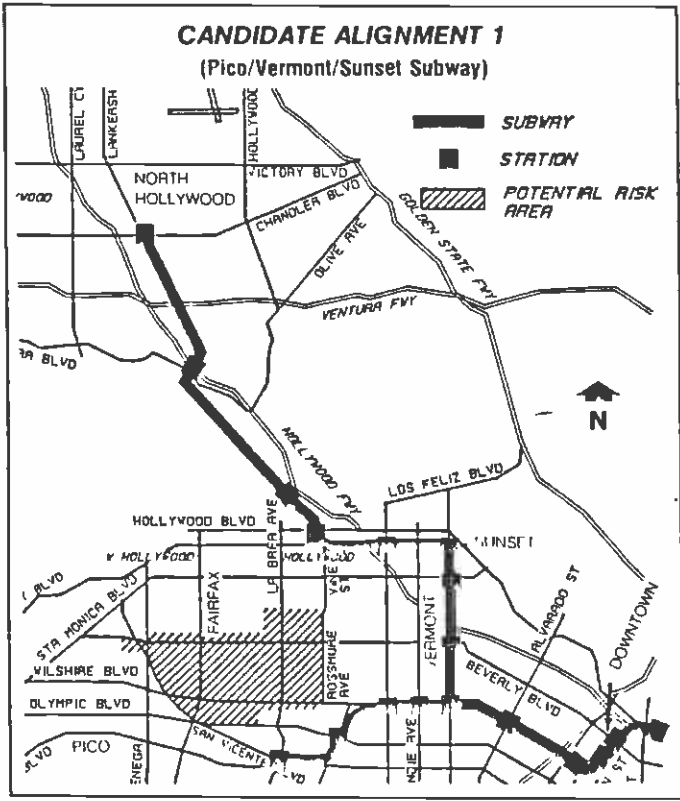




RTD

PDCD

SUMMARY



BEYOND MOS - 1 ALTERNATIVE ALIGNMENTS



FUNDING STATUS AT FEDERAL LEVEL

- **Surface Transportation & Uniform Relocation Assistance Act of 1987**
 - **Presidential Veto 3/27/87**
 - **House/Senate Override 3/31, 4/2**
 - **\$870 million for Metro Rail**
 - **\$203 million for MOS-1**
 - **\$667 million for MOS-2**



PDCD

BENEFIT ASSESSMENT DISTRICT FOR MOS-1

- **Deferred until 1992**
- **\$20 million collected for 1st year**
- **\$200 million in bonds to be sold**
- **Cost reduction - \$0.30 to 0.22**



STATUS OF RTD/NEW AGENCY

- **State Assembly, AB 18**
 - **Unanimous Vote on 4/6/87**
 - **Entitled LACTC**
 - **Mandatory attendance by elected officials; sub-board appointees & built-in short-range planning**



STATUS OF RTD/NEW AGENCY (Contd)

- **State Senate, SB 2**
 - **Unanimous Vote on 4/23/87**
 - **Entitled MTA**
 - **Mandatory attendance by elected officials; no sub-board and SCAG retains planning responsibility.**



- **Method of reporting DBE and WBE percentages.**
- **Decertification of VCM.**
- **Audit of PDCD Incurred Costs.**
- **Personnel acquisition and approval.**