



49

MAY 1, 1997

TO: BOARD OF DIRECTORS *Linda Bohlinger*

FROM: LINDA BOHLINGER, INTERIM CHIEF EXECUTIVE OFFICER

SUBJECT: APPROVE AWARD OF CONTRACT WORK ORDERS AND INCREASE TO AUTHORIZATION FOR EXPENDITURE FOR FINAL DESIGN FOR METRO RED LINE, EAST SIDE EXTENSION

Los Angeles County
Metropolitan
Transportation
Authority

One Gateway Plaza
Los Angeles, CA
90012

213.922.6000

RECOMMENDATION

Approve:

- a) Award of Contract Work Order (CWO) Nos. 47 through 50 to Contract No. E0070 with Engineering Management Consultant (EMC) for the completion of final design services for the Metro Red Line, East Side Extension, in the cumulative amount of \$12,541,385; and
- b) an increase to the Project's Authorization for Expenditure (AFE) in the amount of \$12,541,385, for a revised total AFE amount of \$67,197,565.

Within Construction Committee authority: Yes No

ORGANIZATIONAL IMPACT

This action will allow for the completion of final design, and assistance during contract bid periods, for the East Side Extension.

BUDGET IMPACT

Funds for this action are available within the Board approved project budget of \$1,049,198,000. This action will increase the current final design value of \$45,246,858 by \$12,541,385 to \$57,788,243 (Attachment 2 summarizes the cost and scope of work for CWOs 47 - 50). The final forecast cost of this contract including in process Change Notices and other anticipated changes for the MRL East Side Project is \$99,208,601. There is no impact to the East Side Extension Project Contingency, the MTA Fiscal Year Budget or the Sources of Funds, either in the fiscal year or over the life of the Project as a result of this authorization.

Potential for Cost Recovery: Yes No

ALTERNATIVES CONSIDERED

The Board has the option to:

1. Authorize partial funding for the month of June, 1997 for the continuation of final design under new CWOs 47 to 50 in the cumulative amount of \$3,000,000, which will result in inefficiencies in the administration of this contract; or
2. Disapprove the action which will delay completion of final design.

BACKGROUND

In March 1995, staff completed negotiations with EMC for performance of final design services at a total cost of \$48,548,871 and requested approval of that amount from the MTA Board in April 1995.

The MTA Board approved \$5 million to begin such work and increased the amount by \$1 million in July 1995. The MTA Board chose not to release the full amount for final design while on-going studies were being conducted related to EMC's performance, the design-build concept, the co-located project office concept, and potential selection of another engineering consultant. The incremental funding given to EMC was to maintain continuity and progress on final design.

In December 1995, the MTA Board approved an additional \$24 million for the continuation of final design through October 1996. This action was taken to allow sufficient time for any alternative construction or project management approaches to be implemented. At the Board's request, staff implemented several new controls into EMC's contract which will improve oversight and accountability.

In October 1996, the MTA Board approved an additional \$6.3 million, followed by \$2 million in January 1997, \$2 million in February 1997, \$2 million in March 1997, \$2 million in April 1997, and \$3 million in May 1997 for the continuation of final design during this process.

Currently all final design services are being performed under CWO No. 28. In April 1997, the MTA Board directed staff to utilize the amended EMC contract for future East Side Extension work, and to issue discrete work packages. The award of CWO Nos. 47 - 50 will allow EMC to continue to provide final design services for the Metro Red Line, East Side Extension under the amended contract, and includes preparing the final design, construction contract drawings, specifications and documents. Attachment 2 summarizes the breakdown of CWO No. 28 into CWO Nos. 47 - 50.

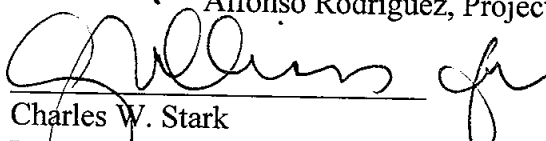
DBE PARTICIPATION

The DBE goal for this contract is 27%. An audit is being conducted by the Equal Opportunity Department to verify first and second tier Subcontracts to determine accurate DBE participation. The audit is expected to be completed by the third week of May 1997.

ATTACHMENTS

- 1 - Contract Value Status 2 - Breakdown of Final Design

Prepared by: Raymond C. Hergert, Senior Contract Administrator
Alfonso Rodriguez, Project Manager, East Side Extension


Charles W. Stark
Interim Executive Officer, Construction

ATTACHMENT 1
PROFESSIONAL SERVICES CONTRACT VALUE STATUS

R84 - Metro Red Line - Segment 3 - East Side

CONTRACT WORK ORDER AWARD
CONTRACT WORK ORDER E0070 - 47 through 50
ENGINEERING MANAGEMENT CONSULTANT (EMC)

PROJECT CUMULATIVE CWO VALUE FOR CONTRACT

1. TOTAL INITIAL CWO VALUE:	\$2,837,490
2. TOTAL PREVIOUS AMENDMENTS:	\$49,487,190
3. TOTAL CURRENT CONTRACT VALUE (1 + 2)	\$52,324,680
4. VALUE OF THIS WORK ORDER AWARD:	\$12,541,385
5. PROPOSED BOARD APPROVED CONTRACT VALUE (3 + 4)	\$64,866,065
6. STAFF APPROVED CCN NTE VALUE	\$1,122,483
7. CCN NTE'S INCLUDED IN AMENDMENT	\$0
8. CCN NTE'S IN OUTSTANDING CCR'S (6-7)	\$1,122,483
9. NEW CONTRACT EXPENDITURE CEILING (5 + 8)	\$65,988,548

AUTHORIZATION FOR EXPENDITURE STATUS : TOTAL PROJECT

10. EXPENDED TO DATE	\$35,209,829	
11. UNEXPENDED CWO VALUE (9-10)	\$30,778,719	
12. NTE ALLOWANCE (See Note)	\$2,331,500	
13. PROPOSED AFE (5 + 12)	\$67,197,565	*
14. CURRENT AFE	\$54,324,680	
15. AFE ADJUSTMENT REQUIRED (13-14)	\$12,872,885	

BUDGET STATUS : TOTAL PROJECT

16. CURRENT CONTRACT BUDGET	\$99,208,601
17. PROPOSED BOARD APPROVED CONTRACT VALUE	\$64,866,065
18. OUTSTANDING CCN'S	\$1,122,483
19. TRENDS AND CONTINGENCIES	\$33,220,053
20. FORECAST FINAL COST (17 + 18 + 19)	\$99,208,601

FUNDING AND ALLOCATION CODES:

PROJECT:	R84	
FUND:	3394	Section 3 - New Start
MAC:	13.71.02	Design And Engineering

REVIEWED BY:

* - Allows future CCN NTE authorizations up to: \$877,517

NOTE: NTE Allowance based upon maximum table allowance of \$2,000,000, plus \$331,500 for costs transferred from Segment 2 to Segment 3 under Amendment 7 to CWO 28 without an increase in the AFE.

ATTACHMENT 1
PROFESSIONAL SERVICES CONTRACT VALUE STATUS
R84 - Metro Red Line - Segment 3 - East Side

CONTRACT WORK ORDER AWARD
CONTRACT WORK ORDER E0070 - 47 through 50
ENGINEERING MANAGEMENT CONSULTANT (EMC)

CWO STATUS: CONTRACT WORK ORDER 23.00

1. INITIAL CWO VALUE:	\$250,000
2. PREVIOUS AMENDMENTS	\$6,516,509
3. CURRENT CWO VALUE (1 + 2)	\$6,766,509
4. VALUE OF THIS AMENDMENT	\$0
5. PROPOSED BOARD APPROVED CWO VALUE (3 + 4)	\$6,766,509
6. STAFF APPROVED CCN NTE VALUE	\$0
7. CCN NTE'S INCLUDED IN AMENDMENT	\$0
8. CCN NTE'S IN OUTSTANDING CCR'S (6-7)	\$0
9. NEW CWO EXPENDITURE CEILING (5 + 8)	\$6,766,509

CWO STATUS: CONTRACT WORK ORDER 28.00

1. INITIAL CWO VALUE:	\$2,276,177
2. PREVIOUS AMENDMENTS	\$42,970,681
3. CURRENT CWO VALUE (1 + 2)	\$45,246,858
4. VALUE OF THIS AMENDMENT	\$0
5. PROPOSED BOARD APPROVED CWO VALUE (3 + 4)	\$45,246,858
6. STAFF APPROVED CCN NTE VALUE	\$1,122,483
7. CCN NTE'S INCLUDED IN AMENDMENT	\$0
8. CCN NTE'S IN OUTSTANDING CCR'S (6-7)	\$1,122,483
9. NEW CWO EXPENDITURE CEILING (5 + 8)	\$46,369,341

CWO STATUS: CONTRACT WORK ORDER 36.00

1. INITIAL CWO VALUE:	\$311,313
2. PREVIOUS AMENDMENTS	\$0
3. CURRENT CWO VALUE (1 + 2)	\$311,313
4. VALUE OF THIS AMENDMENT	\$0
5. PROPOSED BOARD APPROVED CWO VALUE (3 + 4)	\$311,313
6. STAFF APPROVED CCN NTE VALUE	\$0
7. CCN NTE'S INCLUDED IN AMENDMENT	\$0
8. CCN NTE'S IN OUTSTANDING CCR'S (6-7)	\$0
9. NEW CWO EXPENDITURE CEILING (5 + 8)	\$311,313

ATTACHMENT 1
PROFESSIONAL SERVICES CONTRACT VALUE STATUS

R84 - Metro Red Line - Segment 3 - East Side

CONTRACT WORK ORDER AWARD
CONTRACT WORK ORDER E0070 - 47 through 50
ENGINEERING MANAGEMENT CONSULTANT (EMC)

CWO STATUS: CONTRACT WORK ORDER 47.00

1. INITIAL CWO VALUE:	\$5,080,000
2. PREVIOUS AMENDMENTS	\$0
3. CURRENT CWO VALUE (1 + 2)	\$5,080,000
4. VALUE OF THIS AMENDMENT	\$0
5. PROPOSED BOARD APPROVED CWO VALUE (3 + 4)	\$5,080,000
6. STAFF APPROVED CCN NTE VALUE	\$0
7. CCN NTE'S INCLUDED IN AMENDMENT	\$0
8. CCN NTE'S IN OUTSTANDING CCR'S (6-7)	\$0
9. NEW CWO EXPENDITURE CEILING (5 + 8)	\$5,080,000

CWO STATUS: CONTRACT WORK ORDER 48.00

1. INITIAL CWO VALUE:	\$3,315,695
2. PREVIOUS AMENDMENTS	\$0
3. CURRENT CWO VALUE (1 + 2)	\$3,315,695
4. VALUE OF THIS AMENDMENT	\$0
5. PROPOSED BOARD APPROVED CWO VALUE (3 + 4)	\$3,315,695
6. STAFF APPROVED CCN NTE VALUE	\$0
7. CCN NTE'S INCLUDED IN AMENDMENT	\$0
8. CCN NTE'S IN OUTSTANDING CCR'S (6-7)	\$0
9. NEW CWO EXPENDITURE CEILING (5 + 8)	\$3,315,695

CWO STATUS: CONTRACT WORK ORDER 49.00

1. INITIAL CWO VALUE:	\$1,948,520
2. PREVIOUS AMENDMENTS	\$0
3. CURRENT CWO VALUE (1 + 2)	\$1,948,520
4. VALUE OF THIS AMENDMENT	\$0
5. PROPOSED BOARD APPROVED CWO VALUE (3 + 4)	\$1,948,520
6. STAFF APPROVED CCN NTE VALUE	\$0
7. CCN NTE'S INCLUDED IN AMENDMENT	\$0
8. CCN NTE'S IN OUTSTANDING CCR'S (6-7)	\$0
9. NEW CWO EXPENDITURE CEILING (5 + 8)	\$1,948,520

ATTACHMENT 1
PROFESSIONAL SERVICES CONTRACT VALUE STATUS

R84 - Metro Red Line - Segment 3 - East Side

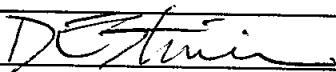
CONTRACT WORK ORDER AWARD

CONTRACT WORK ORDER E0070 - 47 through 50
ENGINEERING MANAGEMENT CONSULTANT (EMC)

CWO STATUS: CONTRACT WORK ORDER 50.00

1. INITIAL CWO VALUE:	\$2,197,170
2. PREVIOUS AMENDMENTS	\$0
3. CURRENT CWO VALUE (1 + 2)	\$2,197,170
4. VALUE OF THIS AMENDMENT	\$0
5. PROPOSED BOARD APPROVED CWO VALUE (3 + 4)	\$2,197,170
6. STAFF APPROVED CCN NTE VALUE	\$0
7. CCN NTE'S INCLUDED IN AMENDMENT	\$0
8. CCN NTE'S IN OUTSTANDING CCR'S (6-7)	\$0
9. NEW CWO EXPENDITURE CEILING (5 + 8)	\$2,197,170

REVIEWED BY:



ATTACHMENT 2

BREAKDOWN OF FINAL DESIGN - CONTRACT WORK ORDERS

As recommended in the Arthur Anderson Report, CWOs should be broken down into smaller CWOs with discrete quantities of work. These smaller CWOs will create more manageable units of work against which EMC will be closely monitored and evaluated in the areas of cost, schedule and technical performance. Final design services for the East Side Extension currently being performed under CWO No. 28 will be broken down into 4 smaller CWOs which will collectively provide for the completion of final design services.

The following are the 4 CWOs comprising final design for the East Side Extension:

CWO	SCOPE OF WORK	CWO Value														
47	<p>Facilities:</p> <ul style="list-style-type: none"> • All remaining PIP work on Station Contracts C0521 & C0531 (except Addenda). • All remaining PIP work on Station Contract C0551, Station and Line Section Contract C0502, and Line Section Contract C0541 (except Addenda). • Any miscellaneous remaining PIP Facilities work. • Will include any remaining PIP work on Section Designer's Contracts (except Addenda). • Will include Level of Effort support through December, 1997. • Will included the remaining Facilities contracts: <ul style="list-style-type: none"> * C0595 - Water Main Leak Survey * P0650 - Electrical Equipment Procurement • Will include remaining work on Speciality Subconsultant contracts that pertain to Facilities. 	\$5,080,000														
48	<p>Systems</p> <table style="width: 100%; border: none;"> <tr> <td style="width: 50%;">B612 - Contract Rail and Coverboard</td> <td style="width: 50%;">B645 - SCADA</td> </tr> <tr> <td>B620 - Automatic Train Control</td> <td>B646 - Fire & Emergency Mgmt.</td> </tr> <tr> <td>B630 - Traction Power Substation Equipment</td> <td>B648A - Gas & Seismic Monitoring</td> </tr> <tr> <td>B641 - Radio System</td> <td>HO840 - Fare Collection</td> </tr> <tr> <td>B642 - Public Address (PA)</td> <td>H1470 - Traction Power Equipment</td> </tr> <tr> <td>B643 - Closed Circuit Television</td> <td>H1476 - Communication Installation</td> </tr> <tr> <td>B644 - Fiber Optics & Cable Trans.</td> <td></td> </tr> </table> <p>Will include a proportion Level of Effort support from 1/98 through 10/2000. Will include remaining work on Specialty Subconsultant contracts that pertain to Systems.</p>	B612 - Contract Rail and Coverboard	B645 - SCADA	B620 - Automatic Train Control	B646 - Fire & Emergency Mgmt.	B630 - Traction Power Substation Equipment	B648A - Gas & Seismic Monitoring	B641 - Radio System	HO840 - Fare Collection	B642 - Public Address (PA)	H1470 - Traction Power Equipment	B643 - Closed Circuit Television	H1476 - Communication Installation	B644 - Fiber Optics & Cable Trans.		\$3,315,695
B612 - Contract Rail and Coverboard	B645 - SCADA															
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B641 - Radio System	HO840 - Fare Collection															
B642 - Public Address (PA)	H1470 - Traction Power Equipment															
B643 - Closed Circuit Television	H1476 - Communication Installation															
B644 - Fiber Optics & Cable Trans.																

ATTACHMENT 2 - CONTINUED

BREAKDOWN OF FINAL DESIGN - CONTRACT WORK ORDERS

CWO	SCOPE OF WORK	CWO Value
49	<p>Systemwide C2610 - Trackwork Installation B745 - Air Handling Equipment P1614 - Special Trackwork B760 - Signs and Graphics P1616 Direct Fixation Rail Fasteners B761 - Illuminated Signs and Edgelights B710 - Escalators & Elevators B 795 - Uninterruptible Power Supplies B740 - Ventilation Equipment</p> <p>Will include a proportion Level of Effort support from January, 1998 through March 1998. Will include remaining work on Specialty Subconsultant contracts that pertain to Systemwide.</p>	\$3,315,810
50	<p>Addenda Will include all work related to the Addenda phase (Bid and Award period) for the following Facilities contracts, and others as required and approved by MTA: C0502 - Little Tokyo Station/Line Section C0551 - First/Lorena Sation C0521 - First/Boyle Station C0558 - Phase III Demolition C0528 - Phase II Demolition C2610 - Trackwork CO531 - Chavez/Soto Station P1614 - Special Trackwork C0541 - First/Boyle - First/Lorena Fasteners Line Section</p>	\$1,948,520
TOTAL		\$12,541,385