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Carried Over

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OCTOBER 23, 1996

TO: BOARD OF DIRECTORS

FROM: JOSEPH E. DREW, CHIEF EXECUTIVE OFFICER

**SUBJECT: METRO RAIL PROJECTS
CONTRACT NO. E0070
ENGINEERING MANAGEMENT CONSULTANT (EMC)
APPROVAL OF AMENDMENT NO. 11 TO CONTRACT
WORK ORDER (CWO) NO. 005 AND INCREASE TO
AUTHORIZATION FOR EXPENDITURE (AFE)**

Los Angeles County
Metropolitan
Transportation
Authority

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RECOMMENDATION

Approve:

- a) Amendment No. 11 to Contract Work Order (CWO) No. 5 to Contract No. E0070 with the Engineering Management Consultant for engineering services for the Programwide Metro Rail Projects in the amount of \$2,195,664 for a total CWO value of \$28,201,552;
- b) an increase in the Authorization for Expenditure (AFE) in the amount of \$4,695,664 for a revised total AFE amount of \$30,701,552.

Within Construction Committee Approval: Yes No

ORGANIZATIONAL IMPACT

Approval of this action will benefit the Agency by enabling continuous Programwide support services from EMC.

BUDGET IMPACT

The funds for this action are available within the Board approved FY 97 project budget of \$6,142,000 as recommended action will increase the current contract value to \$28,201,552, which is the sum of the award value, all executed Change Orders and Amendments and this Amendment. The current status of the contract, including the impact of this recommended action on the contract cost and forecast is shown in Attachment 1. There is no impact to either the Fiscal Year Budget or the Sources of Funds. Project Contingency will not be affected.

Potential for Cost Recovery: Yes No

DBE PARTICIPATION

The DBE goal for this contract is 27%. EMC has committed to meeting the DBE goal.

ATTACHMENTS

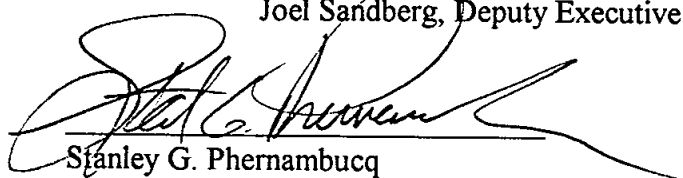
Attachment 1 - Professional Services Contract Value Status

Attachment 2 - Summary of Tasks, Descriptions and Purpose and Task Budget Matrix

Attachment 3 - Construction Committee Approvals

Prepared by: Eric S. Meuser, Contract Administrator

Joel Sandberg, Deputy Executive Officer, Engineering and Construction



Stanley G. Phernambucq
Executive Officer, Construction

ATTACHMENT 1
PROFESSIONAL SERVICES CONTRACT VALUE STATUS
275 - Engineering Support

E0070 - PARSONS-BRINKERHOFF/DMJM
CONTRACT WORK ORDER #05 - AMENDMENT #11

CWO STATUS: CONTRACT WORK ORDER 5.00

1. INITIAL CWO VALUE:	\$1,050,310
2. PREVIOUS AMENDMENTS	\$2,831,503
3. CURRENT CWO VALUE (1+2)	\$3,881,813
4. VALUE OF THIS AMENDMENT	\$2,195,664
5. PROPOSED BOARD APPROVED CWO VALUE (3+4)	\$6,077,477
6. STAFF APPROVED CCR NTE VALUE	\$200,000
7. AWA NTE'S INCLUDED IN AMENDMENT	\$0
8. AWA NTE'S IN OUTSTANDING CCR'S (6-7)	\$200,000
9. NEW CWO EXPENDITURE CEILING (5+8)	\$6,277,477

REVIEWED BY:

ATTACHMENT 2 (continued)

CONTRACT E0070 CWO-0005 - Amendment 11

TASK AO TICU TECHNOLOGY UPDATE

Scope:

The present Train Identification & Control Unit (TICU) is supplied by Motorola Inc. This piece of equipment and other radio data sub systems transmit and receive important digital data between trains and Central Control. Motorola will no longer be able to manufacture and supply the Authority with replacement parts. This task will therefore research, test, and assist in procuring alternative products that could be used to replace the unavailable Motorola products.

Purpose:

Obtain the optimum alternatives that industry has to offer for replacing vital radio communications equipment which would otherwise severely impact train operations.

**TASK P METRO RED LINE (MRL)/METRO GREEN LINE (MGL)
MAINTENANCE-OF-WAY FACILITY DESIGN**

Scope:

Red Line Yard and Shops and Imperial Sites: Completion of final design changes.

TASK Y ENGINEERING SUPPORT FOR USER GROUP

Scope:

The MTA Operations & Maintenance User Group is a significant forum where MTA Construction and Operations staff meet to discuss important issues which are occurring and impacting rail operations after revenue service has begun. These issues often relate to enhancing the design, safety, operations and/or maintenance of the current system. When authorized to do so, EMC investigates each issue and recommends an engineering design for resolution.

Purpose:

Developing a resolution results in improvements, replacements and/or mitigation. Failure to bring about a resolution of these issues speedily and in a cost effective manner will impact revenue operations and may in the long run be more costly to the Authority.

TASK B21 WARRANTY REQUIREMENTS FOR EQUIPMENT

Scope:

The warranty period for equipment supplied to the MTA is generally for 1 year, and is found to be of insufficient length of time. Of necessity, equipment is delivered to site on long time before Revenue Operating Day (ROD). By the time ROD has arrived, the equipment is out of warranty thereby incurring a cost burden upon the Authority in the event of failure.

TASK B40 EMERGENCY REPAIR FOR CORROSION DAMAGE & CORROSION CONTROL TRAINING

Scope:

Provide MTA Operations & Maintenance staff with corrosion control training in recognizing corrosion related problems, stray current components and remedial actions required.

Purpose:

It is essential that maintenance staff have sufficient training to recognize and competently deal with remedial action for corrosion related problems. Failure to enable these staff to take the correct action and in a timely manner may result in potential costly repairs thereby causing possible down time to the transit system.

TASK B55 STUDY NEW CLEAN-AGENT ALTERNATIVES TO HALON FOR FIRE-SUPPRESSION SYSTEM

Scope:

Segment 1 stations have a Fire suppression System consisting of Halon. This system, once discharged during a fire, will have to be replaced with a new clean agent alternative per Environmental Protection Agency (EPA). Also, study new designs for possible cost savings.

Purpose:

The EPA requires the MTA to follow their guidelines.

TASK B62 MODIFY EMERGENCY EXIT HATCH ALARMS

Scope:

Enhance the warning system to the pedestrian traffic at street level for opening hatches. At present, once the door is opened, the alarm will sound. Provide a device that will sound the alarm the minute the exiting passengers start walking up the hatchway's stairway.

Purpose:

Operations & Maintenance and Safety issue to be incorporated into the Segments 2B, 3 and East Side design.