

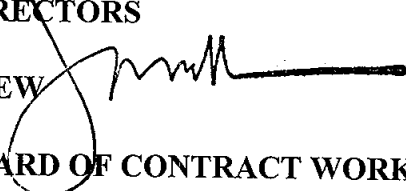
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OCTOBER 23, 1996

TO: BOARD OF DIRECTORS

FROM: JOSEPH E. DREW 

SUBJECT: APPROVE AWARD OF CONTRACT WORK ORDER (CWO) AND INCREASE IN AUTHORIZATION FOR EXPENDITURE (AFE) FOR FINAL DESIGN SERVICES FOR THE PASADENA BLUE LINE (PBL)

ke
 Los Angeles County
 Metropolitan
 Transportation
 Authority

One Gateway Plaza
 Los Angeles, CA
 90012

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 P.O. Box 194
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RECOMMENDATION

Approve:

- a) the award of Contract Work Order No. 42 to Contract No. E0070 with the Engineering Management Consultant (EMC) for continuation of final design services for Union and Sierra Madre Villa Stations on the PBL in the Not-To-Exceed amount of \$945,000; and,
- b) an increase to the Authorization for Expenditure (AFE) in the amount of \$945,000 for a revised total of \$ 101,536,714.

Within Construction Committee approval: Yes No

ORGANIZATIONAL IMPACT

This action will allow for a continuation of the restart of final design services on the PBL that benefits the MTA by meeting schedule requirements and remaining within budget constraints.

BUDGET IMPACTS

The funds for this action are available within the Board approved project budget of \$803,900,000. This recommended action will increase the current contract value to \$99,536,714, which is the sum of the award value plus all executed Amendments including this Amendment. The forecast final cost, including in-process change notices and other anticipated changes, for this contract is \$119,153,800. The current status of the 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.

Potential for Cost Recovery: Yes No

ALTERNATIVES CONSIDERED

The Board has the option to withhold approval for AFE to restart designs until the balance of the design packages have been completely scoped and fully negotiated. This option would delay the program approximately two (2) months. This delay could result in up to \$8 million in additional escalation costs and delay in the May 2001, Revenue Operation Date (ROD).

BACKGROUND DISCUSSION

During the August 1996 sessions, the Board approved the restart of the final design of the PBL by approving CWO Nos. 39 (Project Management and Control) and 40 (Line Segments #1, #2, and #3). The Board also approved final design and management approach to be used for the PBL by approving CWO No. 41 during the September 1996 session. The key element to this project plan is the reorganization of the design program into increments of work that are defined in scope, funded and managed as separate but coordinated CWOs and whose activities will proceed in a phase schedule. The "rolling wave" approach has been approved by the Board as a method to best achieve multiple program objectives. It also responds to the recommendations of the Arthur Andersen Report that calls for smaller CWO packages with greater definition of the baseline scope of work. To continue with the approved management plan approach, approval of CWO No. 42 for additional construction packages is required. The scope of work is described in Attachment B.

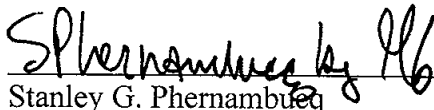
DBE PARTICIPATION

The DBE goal for this contract was set at 27%. The EMC has committed to meeting the DBE goal.

ATTACHMENTS

Attachment 1 -- Professional Services Contract Value Status
Attachment A -- Management Approach (Matrix Chart)
Attachment B -- Discussion of Scope of Work

Prepared by: James R. Linkous; Manager Construction Contracts
David J. Sievers, P.E., Project Manager, Pasadena Blue Line



Stanley G. Phernambureq
Executive Officer, Construction

ATTACHMENT B

SCOPE OF WORK DISCUSSION

This Design/Build Contract includes the design of Union Station and Sierra Madre Villa Station.

Union Station is the terminus of the Pasadena Blue Line and an important transfer point for the Red Line, Metrolink, Amtrak and regional bus services. The station is located west of existing platform No. 2 and existing Metrolink tracks within the train yard and is composed of a single at-grade center platform. The platform level is connected to the existing passenger tunnel with a center placed ramp and stairs. Design effort will include preparation of construction documents for demolition, fabrication of station canopy, platform structure and finishes, retaining walls, grading, electrical work, lighting, trackwork, and installation of Overhead Catenary System (OCS) pole foundations. It also includes construction of stairs, ramps and installation of station and ancillary facilities. Construction documents for this station have been through the initial bidding process but were rejected pending cost containment redesign. The current redesign includes the incorporation of cost containment measures (including a lower track profile) and the introduction of an alternate design for the station. Primary changes to the current scope of work include narrowing of the platform width and the elimination of the elevator in favor of a ramp and stairs. The cost containment measures will also include natural concrete platform finish, standard railings, and natural concrete wall finishes.

The Sierra Madre Villa Station is located in the center of the I-210 Freeway in the City of Pasadena. This station will be the eastern terminus of the Pasadena Blue Line. The design effort includes modifications to the existing bridge structure, excavation, fabrication of station structure and canopy, trackwork and ancillary facilities. It also includes access stairs, elevator and connection of power and water. Previous design work on this station has progressed only to the conceptual design level. Cost Containment design elements such as a standardized canopy, natural concrete with scoring pattern platform paving, and standard metal railings will be included in the station design. Access to the station will be from an entrance plaza at Madre Street utilizing stairs, elevator and a future escalator. A parking facility and future pedestrian bridge over the I-210 Freeway are proposed but are not a part of this contract.

The design and redesign will be accomplished through the use of one Design/Build contract for both stations. The EMC effort includes preparation of the design packages that will be progressed to the Preliminary Engineering Level (approximately 35%) and will include bid cycle services. The Design/Build contractor will then complete the design and construct the facilities under one contract. The EMC will review the contractor's design for compliance with MTA criteria and the contract provisions under a change to CWO No. 25 design services during construction.

ATTACHMENT 1
PROFESSIONAL SERVICES CONTRACT VALUE STATUS

R05 - Metro Blue Line - Pasadena

CONTRACT WORK ORDER AWARD
CONTRACT WORK ORDER E0070 - 1.00:
ENGINEERING MANAGEMENT CONSULTANT

CWO STATUS: CONTRACT WORK ORDER 1.00

1. INITIAL CWO VALUE:	\$10,428,890
2. PREVIOUS AMENDMENTS	\$683,473
3. CURRENT CWO VALUE (1 + 2)	\$11,112,363
4. VALUE OF THIS AMENDMENT	\$0
5. PROPOSED BOARD APPROVED CWO VALUE (3 + 4)	\$11,112,363
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)	\$11,112,363

CWO STATUS: CONTRACT WORK ORDER 21.00

1. INITIAL CWO VALUE:	\$4,571,110
2. PREVIOUS AMENDMENTS	\$55,828,455
3. CURRENT CWO VALUE (1 + 2)	\$60,399,565
4. VALUE OF THIS AMENDMENT	\$0
5. PROPOSED BOARD APPROVED CWO VALUE (3 + 4)	\$60,399,565
6. STAFF APPROVED CCN NTE VALUE	\$180,000
7. CCN NTE'S INCLUDED IN AMENDMENT	\$0
8. CCN NTE'S IN OUTSTANDING CCR'S (6-7)	\$180,000
9. NEW CWO EXPENDITURE CEILING (5 + 8)	\$60,579,565

CWO STATUS: CONTRACT WORK ORDER 25.00

1. INITIAL CWO VALUE:	\$175,000
2. PREVIOUS AMENDMENTS	\$1,908,072
3. CURRENT CWO VALUE (1 + 2)	\$2,083,072
4. VALUE OF THIS AMENDMENT	\$0
5. PROPOSED BOARD APPROVED CWO VALUE (3 + 4)	\$2,083,072
6. STAFF APPROVED CCN NTE VALUE	\$152,100
7. CCN NTE'S INCLUDED IN AMENDMENT	\$0
8. CCN NTE'S IN OUTSTANDING CCR'S (6-7)	\$152,100
9. NEW CWO EXPENDITURE CEILING (5 + 8)	\$2,235,172

ATTACHMENT 1
PROFESSIONAL SERVICES CONTRACT VALUE STATUS

R05 - Metro Blue Line - Pasadena

CONTRACT WORK ORDER AWARD
CONTRACT WORK ORDER E0070 - 34.00:
ENGINEERING MANAGEMENT CONSULTANT

CWO STATUS: CONTRACT WORK ORDER 34.00

1. INITIAL CWO VALUE:	\$50,000
2. PREVIOUS AMENDMENTS	\$53,004
3. CURRENT CWO VALUE (1 + 2)	\$103,004
4. VALUE OF THIS AMENDMENT	\$0
5. PROPOSED BOARD APPROVED CWO VALUE (3 + 4)	\$103,004
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)	\$103,004

CWO STATUS: CONTRACT WORK ORDER 37.00

1. INITIAL CWO VALUE:	\$3,000,000
2. PREVIOUS AMENDMENTS	(\$6,290)
3. CURRENT CWO VALUE (1 + 2)	\$2,993,710
4. VALUE OF THIS AMENDMENT	\$0
5. PROPOSED BOARD APPROVED CWO VALUE (3 + 4)	\$2,993,710
6. STAFF APPROVED CCN NTE VALUE	\$36,100
7. CCN NTE'S INCLUDED IN AMENDMENT	\$0
8. CCN NTE'S IN OUTSTANDING CCR'S (6-7)	\$36,100
9. NEW CWO EXPENDITURE CEILING (5 + 8)	\$3,029,810

CWO STATUS: CONTRACT WORK ORDER 39.00

1. INITIAL CWO VALUE:	\$6,500,000
2. PREVIOUS AMENDMENTS	\$0
3. CURRENT CWO VALUE (1 + 2)	\$6,500,000
4. VALUE OF THIS AMENDMENT	\$0
5. PROPOSED BOARD APPROVED CWO VALUE (3 + 4)	\$6,500,000
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)	\$6,500,000

ATTACHMENT 1
PROFESSIONAL SERVICES CONTRACT VALUE STATUS

R05 - Metro Blue Line - Pasadena

CONTRACT WORK ORDER AWARD
CONTRACT WORK ORDER E0070 - 40.00:
ENGINEERING MANAGEMENT CONSULTANT

CWO STATUS: CONTRACT WORK ORDER 40.00

1. INITIAL CWO VALUE:	\$8,500,000
2. PREVIOUS AMENDMENTS	\$0
3. CURRENT CWO VALUE (1 + 2)	\$8,500,000
4. VALUE OF THIS AMENDMENT	\$0
5. PROPOSED BOARD APPROVED CWO VALUE (3 + 4)	\$8,500,000
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)	\$8,500,000

CWO STATUS: CONTRACT WORK ORDER 41.00

1. INITIAL CWO VALUE:	\$6,900,000
2. PREVIOUS AMENDMENTS	\$0
3. CURRENT CWO VALUE (1 + 2)	\$6,900,000
4. VALUE OF THIS AMENDMENT	\$0
5. PROPOSED BOARD APPROVED CWO VALUE (3 + 4)	\$6,900,000
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)	\$6,900,000

CWO STATUS: CONTRACT WORK ORDER 42.00

1. INITIAL CWO VALUE:	\$945,000
2. PREVIOUS AMENDMENTS	\$0
3. CURRENT CWO VALUE (1 + 2)	\$945,000
4. VALUE OF THIS AMENDMENT	\$0
5. PROPOSED BOARD APPROVED CWO VALUE (3 + 4)	\$945,000
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)	\$945,000

REVIEWED BY: 

ATTACHMENT 1
PROFESSIONAL SERVICES CONTRACT VALUE STATUS

R05 - Metro Blue Line - Pasadena

CONTRACT WORK ORDER AWARD
CONTRACT WORK ORDER E0070 - 42.00:
ENGINEERING MANAGEMENT CONSULTANT

PROJECT CUMULATIVE CWO VALUE FOR CONTRACT

1. TOTAL INITIAL CWO VALUE:	\$40,125,000
2. TOTAL PREVIOUS AMENDMENTS:	\$58,466,714
3. TOTAL CURRENT CONTRACT VALUE (1 + 2)	\$98,591,714
4. VALUE OF THIS WORK ORDER AWARD:	\$945,000
5. PROPOSED BOARD APPROVED CONTRACT VALUE (3 + 4)	\$99,536,714
6. STAFF APPROVED CCN NTE VALUE	\$368,200
7. CCN NTE'S INCLUDED IN AMENDMENT	\$0
8. CCN NTE'S IN OUTSTANDING CCR'S (6-7)	\$368,200
9. NEW CONTRACT EXPENDITURE CEILING (5 + 8)	\$99,904,914

AUTHORIZATION FOR EXPENDITURE STATUS : TOTAL PROJECT

10. EXPENDED TO DATE	\$66,239,502
11. UNEXPENDED CWO VALUE (9-10)	\$33,665,412
12. NTE ALLOWANCE (From Table)	\$2,000,000
13. PROPOSED AFE (5 + 12)	\$101,536,714
14. CURRENT AFE	\$100,591,714
15. AFE ADJUSTMENT REQUIRED (13-14)	\$945,000

BUDGET STATUS : TOTAL PROJECT

16. CURRENT CONTRACT BUDGET	\$117,854,500
17. PROPOSED BOARD APPROVED CONTRACT VALUE	\$99,536,714
18. OUTSTANDING CCN'S	\$368,200
19. TRENDS AND CONTINGENCIES	\$19,248,886
20. FORECAST FINAL COST (17 + 18 + 19)	\$119,153,800

FUNDING AND ALLOCATION CODES:

PROJECT: R05
FUND:
MAC:

Not entered into CMS for this Project

REVIEWED BY: 

* AFE required to cover this amendment plus NTE commitments. Does not allow any additional NTE allowance.

ATTACHMENT B

SCOPE OF WORK DISCUSSION

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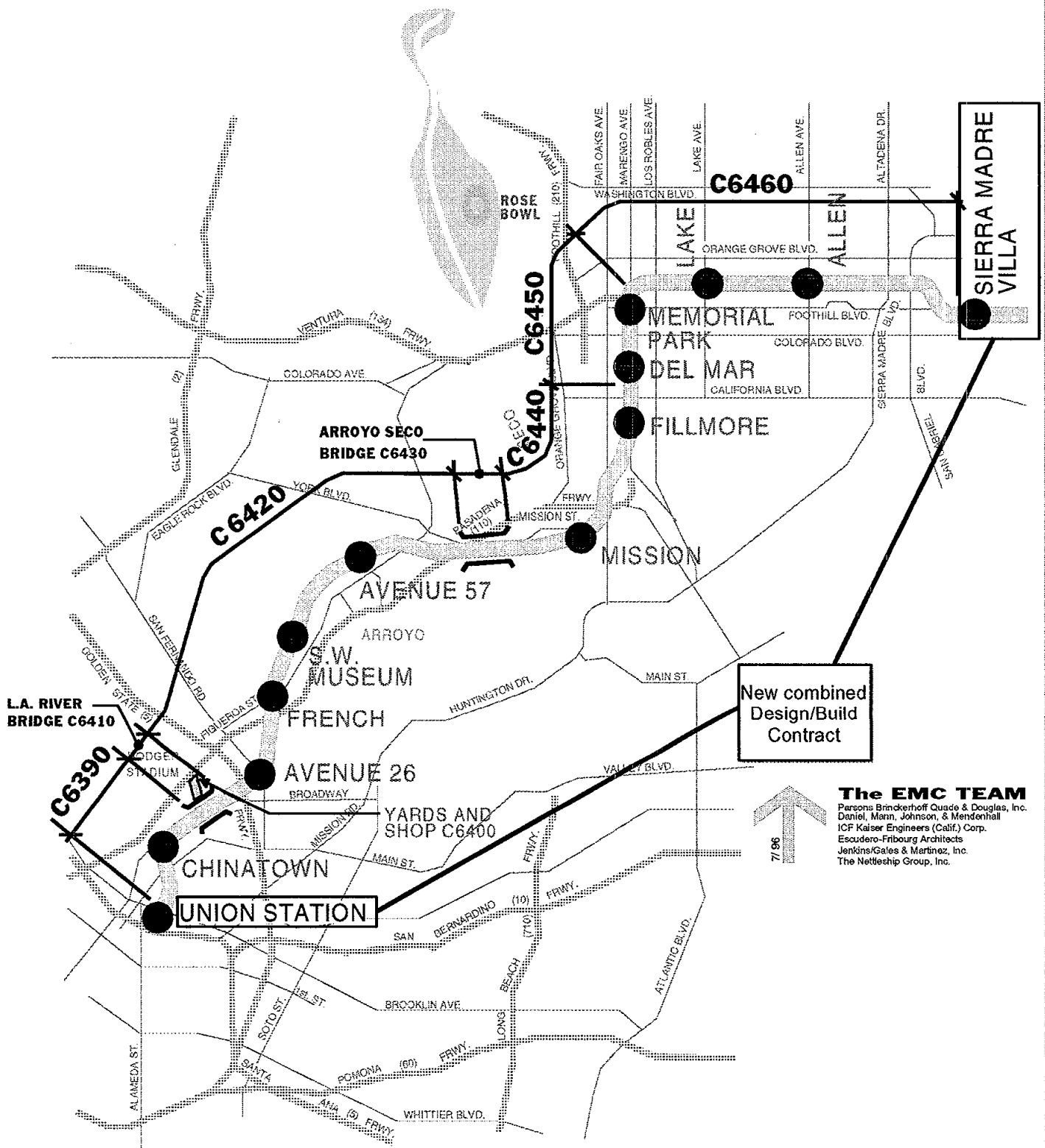
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PASADENA BLUE LINE



New combined
Design/Build
Contract



The EMC TEAM
 Parsons Brinckerhoff Quade & Douglas, Inc.
 Daniel, Mann, Johnson, & Mendenhall
 ICF Kaiser Engineers (Calif.) Corp.
 Escudero-Fribourg Architects
 Jenkins/Gates & Martinez, Inc.
 The Nettleship Group, Inc.