



Los Angeles County
Metropolitan
Transportation
Authority

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MAY 1, 1997

TO: BOARD OF DIRECTORS

FROM: LINDA BOHLINGER *Linda Bohlinger*
INTERIM CHIEF EXECUTIVE OFFICER

SUBJECT: APPROVE A CHANGE ORDER AND INCREASE TO THE
AUTHORIZATION FOR EXPENDITURE FOR CONCRETE
LINER AND SERVICE INSTALLATION WORK FOR TUNNEL
LINE SECTION TO UNIVERSAL CITY STATION, METRO RED
LINE, NORTH HOLLYWOOD CORRIDOR

RECOMMENDATION

Approve:

- a) Change Order No. 70.0 to Contract No. C0311 for Tunnel Line Section to Universal City with Traylor Bros./Frontier-Kemper, Joint Venture, in the amount of \$5,880,250 to cover the concrete liner and service installation work transfer from Contract C0301 (Change Notices 41.0, 41.01 and 41.02) for a revised total contract amount of \$145,138,968; and
- b) an increase to the Authorization for Expenditure (AFE) in the amount of \$2,180,250 for a total revised AFE amount from \$157,875,426 to \$160,055,676.

Within Construction Committee authority : Yes No

ORGANIZATIONAL IMPACT

This action will allow for the construction of the C0301 portion of final concrete liner by C0311 contractor out of sequence and earlier than other final lining concrete work. Completing this work at this time will ensure that the Revenue Operation Date (ROD) of May 17, 2000 can be met.

BUDGET IMPACT

This action is in addition to the \$3,700,000 approved by the MTA Board on August 1996. The funds for this action are available within the Board approved project budget of \$1,313,848,000. This recommended action will increase the current Contract C0311 value of \$139,258,718 by \$5,880,250 to \$145,138,968. The forecast and final cost including this Change Order and other anticipated changes for this contract, is shown in Attachment 1. Project contingency will be reduced by \$2,180,250. This recommended action does not impact the MTA Fiscal Year Budget

or the Sources of Funds, either in the fiscal year or over the life of the project.

Potential for Cost Recovery : Yes No

ALTERNATIVES CONSIDERED

There are no viable alternatives. An alternative would have been to leave this work with Contract C0301 which would have severely impacted the Segment 3 ROD of May 17, 2000. The C0311 Contractor had the only viable access to perform this work within the required time frame.

BACKGROUND

The termination of the B251 Contractor (Shea-Kiewit-Kenny) left a considerable amount of work which had to be completed by other contractors. The C0301 Contract contained the lining and finish work from Station 599+83.18 to STA. 613.00 which is 1,317 feet north of the Hollywood/Highland Station. The lining of this portion of the tunnels could not be started until the B251 work was completed thus creating an access delay which prevented the C0301 contractor (Tutor-Saliba/Perini) from completing the tunnel lining (See Additional Background - Attachment 2).

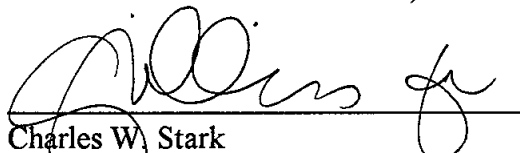
SMALL BUSINESS PARTICIPATION

The DBE commitment is \$19,372,000 or 15.57%. This contract is 48.7% complete. DBE participation has not been a problem. The majority of the DBE value is in the permanent electrical work which is to start in January 1998 and be completed by June 1998 time frame. (See Additional Small Business Participation - Attachment 2).

ATTACHMENTS

- Attachment 1: Contract Value Status
- Attachment 2: Additional Background/Small Business Participation
- Attachment 3: Concrete Liner and Service Installation Work

Prepared by: Stan Lotterman , Manager of Contracts
 John J. Adams, Interim Deputy Executive Officer, Construction
 Metro Red Line, North Hollywood Corridor



Charles W. Stark
Interim Executive Officer, Construction

ATTACHMENT 1 CONTRACT VALUE STATUS

R82 Metro Red Line - Segment 3 - N
CHANGE ORDER : C0311-CO-70.00

CONTRACTOR: TRAYLOR BROS./FRONTIER-KEMPER, J.V. - LINE SECTION FROM STATION 630+00 TO UNIVERSAL CITY
CHANGE TITLE: CONCRETE LINER AND SERVICE INSTALLATION WORK TRANSFER FROM C301 CONTRACT

CONTRACT VALUE STATUS

1.	CONTRACT AWARD AMOUNT:	\$124,421,000.00
2.	PREVIOUSLY EXECUTED CHANGES:	\$6,222,718.30
3.	CURRENT CONTRACT VALUE: (1 + 2)	\$130,643,718.30
4.	AUTHORIZED WACN'S (NTE):	\$8,615,000.00
5.	OBLIGATED CONTRACT VALUE: (3 + 4)	\$139,258,718.30
6.	VALUE OF THIS CHANGE:	\$5,880,250.00
7.	ESTIMATED CONTRACT VALUE: (5 + 6)	\$145,138,968.30

AUTHORIZED FOR EXPENDITURE STATUS

INCREASE IN AFE REQUIRED/REQUESTED:

8.	MTA APPROVED AFE:	\$157,875,426.00	Award + 26.89%
9.	ESTIMATED CONTRACT VALUE: (Line 7)	\$145,138,968.30	
10.	REMAINING AFE (Actual 8-9)	\$12,736,457.70	\$0.00 For current actual costs
11.	OTHER PENDING CHANGES (merited)	\$11,771,234.11	
12.	REMAINING AFE (w/CHANGES 10-11)	\$965,223.59	\$0.00 For pending changes
13.	TRENDS AND CONTINGENCIES (pending merit finding)	\$7,663,038.59	
14.	REMAINING AFE: (w/TRENDS 12-13)	(\$6,697,815.00)	\$6,697,815.00 For possible changes

CONTRACT BUDGET STATUS

15.	CURRENT CONTRACT BUDGET:	\$162,250,000.00	
16.	FORECAST CONTRACT VALUE: (9 + 11 + 13)	\$164,573,241.00	For all potential changes. To be funded from unallocated Project
17.	REMAINING CONTRACT BUDGET: (15-16)	(\$2,323,241.00)	contingency if necessary.

CONTRACT INCREASE PERCENTAGES

18.	% OF ORIGINAL AWARD VALUE (THIS CHANGE)	4.726%
19.	% OF ORIGINAL AWARD VALUE (MERITED CHANGES)	21.386%
20.	% OF ORIGINAL AWARD VALUE (ALL CHANGES)	32.271%
21.	% CONTRACT COMPLETE:	52%

REVIEWED BY MTA PROGRAM CONTROL: T. WILKENS, PROGRAM CONTROL

T.O. Wilkens

DATE: 4/29/97

ATTACHMENT 2

ADDITIONAL BACKGROUND

Once the impacts of the uncompleted B251 work were analyzed, it was recognized by the Authority that there were significant impacts to the project schedules. As the ramifications were developed, it became clear that re-assignment and additional work were necessary to mitigate any future delays. The only access available to the C0301 Contractor to the northern 1,317 feet of the tunnel lining in each tunnel was through the west end of the station. The use of this access point would have led to significant impacts to the C0301 critical path and a negative impact to the Segment 3 ROD of May 17, 2000.

The C0311 Contractor (Traylor Bros/Frontier-Kemper) has access to this Reach of the tunnel through the La Brea Shafts. Presently, there is a limited time period in which the C0311 Contractor can complete the 1,317 feet of lining in each tunnel by working south out of the La Brea Shafts while concurrently performing work north of the La Brea Shafts without schedule impact. The use of this very limited window of opportunity will allow the C0311 contractor to complete the total 2,634 feet of tunnel lining without impacting the ROD.

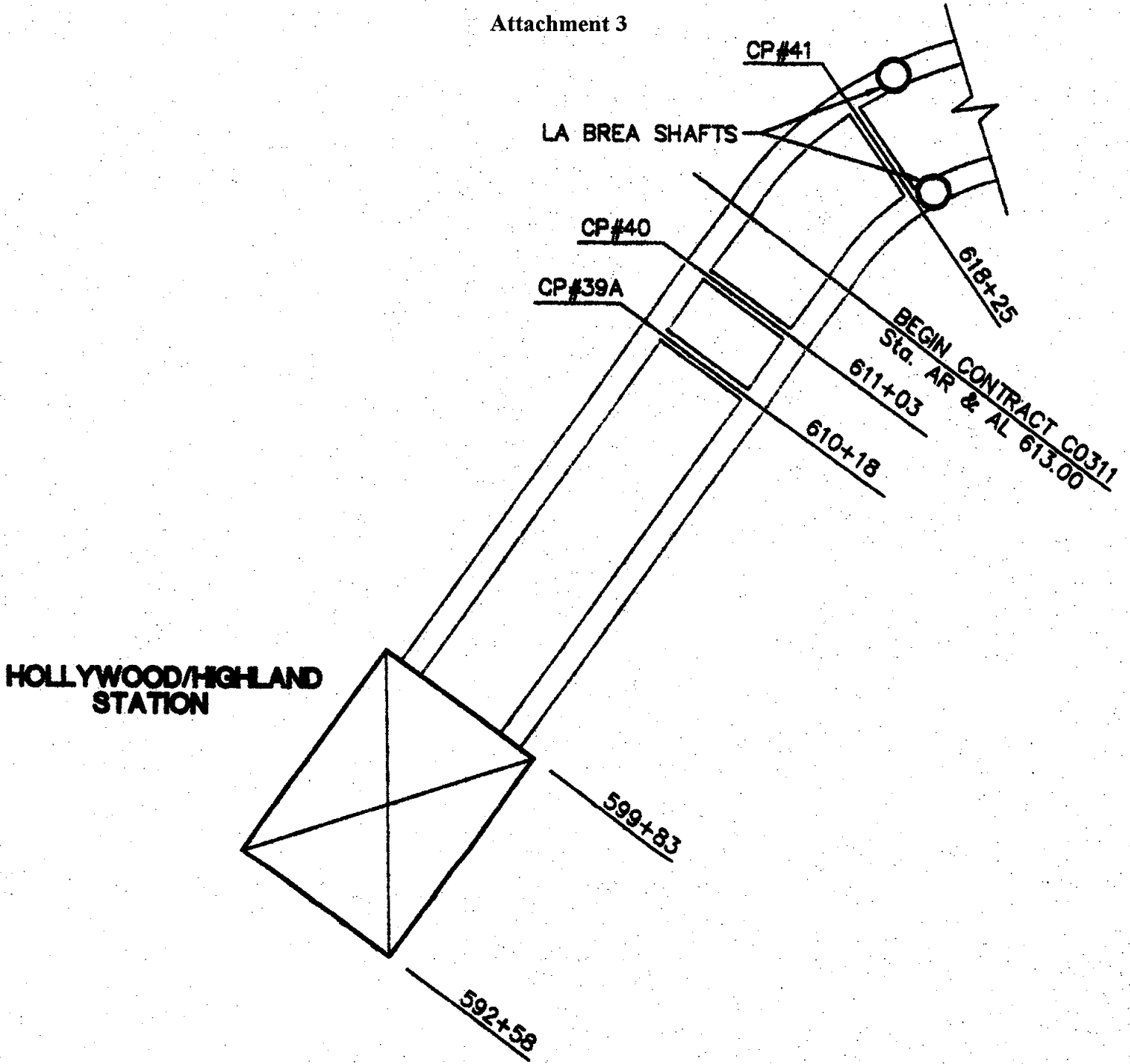
Contract C0311 is a fixed priced, federally funded procurement for the construction of the Line Section from Station 630+00 to Universal City. The work includes boring and finishing existing twin tunnel line structures and cross-passages excavated by others; construction of two single crossovers and track-level rooms in a mined configuration; providing the north access shaft; and excavation and support of a crossover structure site at the Universal City station.

Contract C0311 was recommended for award to Traylor Bros./Frontier-Kemper, Joint Venture, by MTA Construction Committee at its December 14, 1994 meeting, and was approved by the MTA Board on December 21, 1994. The total awarded Contract Price was \$124,421,000. The Notice-To-Proceed date was January 23, 1995, with an anticipated completion date of July 5, 1998.

SMALL BUSINESS PARTICIPATION

Fifteen DBE firms have participated to date: R.T. Construction for temporary and permanent electrical (2.71%); Marmelejo Contractors for furnish and install tunnel lining (4.83%); Ugalde Trucking for trucking (.85%); Alpha Corporation for engineering and design (.07%); Malcolm Drilling for drilling and tie-back anchors (.06%); Contractors Barricade for lane closure (.01%); Fence Factory for fencing (.03%); Bravo Environmental for sound blankets (.05%); Mcalpine & Salyer for accoustical attachments & insulation (.05%); Geosystec Consultants for engineering (.13%); Sanders Engineering for vent strapping (.13%); Mejia Steel for welding (.01%); Twining Labs for field and shotcrete testing (.01%) Hayward Bocca for testing (.01%); and Beylik Drilling for drilling (1.39%). A total of 10.28% has been obtained to date.

Attachment 3



**CHANGE ORDER No.70.0
CONCRETE LINER AND
SERVICE INSTALLATION WORK**