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APPROVED  
BY THE CITY COUNCIL

OCT 20 1987

OFFICE OF THE  
CITY CLERK

AG 87698

DEPARTMENT OF  
PUBLIC WORKS

CITY OF SACRAMENTO  
CALIFORNIA

927 TENTH STREET  
ROOM 200  
SACRAMENTO, CA  
95814-2705

ENGINEERING DIVISION

916-449-8220

THOMAS M. FINLEY  
ENGINEERING DIVISION MANAGER

October 20, 1987 MANAGER'S OFFICE

RECEIVED

CONSTRUCTION SECTION  
640 BERKUT DRIVE  
SUITE B  
SACRAMENTO, CA  
95814-0131

City Council  
Sacramento, California

OCT 14 1987

SUBJECT: Investigation of Suspender Cables on the Guy West Bridge - 916-449-5282  
Fund Appropriation and Approval of Consultant Agreement (JN:9938)

SUMMARY

Evaluation of suspender cable conditions on the Guy West Bridge with an emphasis on repair of damaged cables and establishment of a long term maintenance program is necessary. Wiss, Janney, Elstner Associates, Inc., Consulting and Research Engineers, have been selected to evaluate the condition of the suspender cables and make a recommendation on repair and maintenance. This item was recommended for approval by the Budget and Finance Committee at its meeting of October 13, 1987.

BACKGROUND

See the attached report to the Budget and Finance Committee.

FINANCIAL

See the attached report to the Budget and Finance Committee.

RECOMMENDATION

It is recommended that the attached resolution which authorizes appropriation of project funds and approves the Consultant Agreement be approved.

Respectfully submitted,

THOMAS M. FINLEY  
Engineering Division Manager

Recommendation Approved:

WALTER J. SLIVE  
City Manager

Approved:

MELVIN H. JOHNSON  
Director of Public Works

RW:mb

ED1-16.e

09.2387.2

District No. 3

87-873

29

# RESOLUTION NO.

ADOPTED BY THE SACRAMENTO CITY COUNCIL ON DATE OF

APPROVED  
BY THE CITY COUNCIL

OCT 20 1987

OFFICE OF THE  
CITY CLERK

RESOLUTION AUTHORIZING FUND APPROPRIATION AND EXECUTION OF A  
CONSULTANT SERVICES AGREEMENT WITH WISS, JANNEY, ELSTNER ASSOCIATES; INC.  
TO INVESTIGATE THE SUSPENDER CABLES ON THE GUY WEST BRIDGE (JN:9938)

BE IT RESOLVED BY THE COUNCIL OF THE CITY OF SACRAMENTO:

- 1) The Capital Improvement Program is hereby amended by transferring \$37,000 from the Miscellaneous Street Bikeway Improvement Project (235-500-HA01-XXXX) to the Bikeway Contingency Reserve (235-710-7012-4999).
- 2) The Capital Improvement Program is further amended by appropriating \$37,000 from the Bikeway Contingency Reserve (235-710-7012-4999) to the Guy West Bridge Project as follows:

a.	Consultant Agreement (235-500-XXXX-4252)	\$24,750
b.	Consultant Agreement Administration (235-500-XXXX-4840)	2,000
c.	Project Contingencies (235-500-XXXX-4414)	6,250
d.	City performed Engineering Study (235-500-XXXX-4802)	4,000

- 3) That the City Manager and City Clerk are hereby authorized to execute an agreement in the amount of \$24,750 with Wiss, Janney, Elstner Associates, Inc. to evaluate the condition of the suspender cables on the Guy West Bridge and make recommendations on repairs and long term maintenance.

\_\_\_\_\_  
MAYOR

ATTEST:

\_\_\_\_\_  
CITY CLERK

RW:eh  
ED1-16.e  
09.2187.2



29 (5)

DEPARTMENT OF  
PUBLIC WORKS

CITY OF SACRAMENTO  
CALIFORNIA

927 TENTH STREET  
ROOM 200  
SACRAMENTO, CA  
95814-2705

ENGINEERING DIVISION

916-449-8220

THOMAS M. FINLEY  
ENGINEERING DIVISION MANAGER

CONSTRUCTION SECTION  
640 BERKUT DRIVE  
SUITE B  
SACRAMENTO, CA  
95814-0131

October 13, 1987

916-449-5282

Budget and Finance Committee  
Sacramento, California

SUBJECT: Investigation of Suspender Cables on the Guy West Bridge - Fund  
Appropriation for Consultant Services Agreement (JN:9938)

SUMMARY

Evaluation of suspender cable conditions on the Guy West Bridge with an emphasis on repair of damaged cables and establishment of a long term maintenance program is necessary. Wiss, Janney, Elstner Associates, Inc., Consulting and Research Engineers, have been selected to evaluate the condition of the suspender cables and make recommendations on repair and maintenance. It is recommended that funds be appropriated and the Consultant Services Agreement approved.

BACKGROUND

On May 21, 1987, the Guy West Bridge, a pedestrian/bicycle bridge over the American River near California State University Sacramento, was closed due to the failure of three suspender cables which connect the bridge deck to the suspension cables. The cables failed at their connections to the bridge deck. On July 16, 1987, replacement of the failed cables and the immediate surrounding cables (a total of six cables) was completed and the bridge was open for public traffic.

During the bridge closure, all suspender cables were x-rayed at their connections to the bridge deck. The x-rays showed various degrees of damage to the suspender cables throughout the bridge. This information prompted Engineering staff to examine the condition of the entire bridge with an emphasis on the suspender cables. To aid the Engineering Division with its investigation, a consultant with a background in failure analysis and cable suspension bridges is needed.

Engineering proposals from three firms were received. Wiss, Janney, Elstner Associates, Inc. has been selected to analyze the failure of the three suspender cables and the overall condition of the bridge. Upon completion of their investigation, contract documents will be prepared for repairs necessary to maintain the integrity of the bridge and recommendations made on a long term maintenance program.

Budget and Finance Committee  
Suspender Cables on Guy West Bridge  
October 13, 1987  
Page 2

FINANCIAL

No funds have been appropriated for this project. The "not to exceed" amount of the Consultant Services Agreement is \$24,750. Funds required to complete all aspects of this phase of the project is \$37,000. A breakdown of the expected project costs is:

- |   |          |
|---|----------|
| 1. Consultant Services Agreement  | \$24,750 |
| 2. Administration of the Consultant Services Agreement  | 2,000    |
| 3. Contingencies, including possible additional analysis of the bridge outside of the existing Consultant Services Agreement and possible removal and analysis of an additional bridge suspender cable. | 6,250    |
| 4. Engineering Studies, including time spent on the emergency repairs and subsequent analysis of the cable failure and bridge condition.  | 4,000    |

It is recommended that TDA (State Transportation Development Act) funds be authorized for expenditure on this project.

RECOMMENDATION

It is recommended that the Budget and Finance Committee approve the fund appropriation and forward this report to the full City Council for adoption of the resolution and approval of the Consultant Services Agreement.

Respectfully submitted:

*Thomas M. Finley*  
THOMAS M. FINLEY  
Engineering Division Manager

Recommendation Approved:

*Jack R. Crist*  
JACK R. CRIST  
Deputy City Manager

Approved:

*Melvin H. Johnson*  
MELVIN H. JOHNSON  
Director of Public works

RW:eh  
ED1-16.E  
09.2187.2

October 13, 1987  
District No. 3

# RESOLUTION NO.

ADOPTED BY THE SACRAMENTO CITY COUNCIL ON DATE OF

RESOLUTION AUTHORIZING FUND APPROPRIATION AND EXECUTION OF A  
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- 3) That the City Manager and City Clerk are hereby authorized to execute an agreement in the amount of \$24,750 with Wiss, Janney, Elstner Associates, Inc. to evaluate the condition of the suspender cables on the Guy West Bridge and make recommendations on repairs and long term maintenance.

\_\_\_\_\_  
MAYOR

ATTEST:

\_\_\_\_\_  
CITY CLERK

29

October 26, 1987

Wiss, Janney, Elstner Associates, Inc.  
2200 Powell Street, Suite 925  
Emeryville, CA 94608-1836

Dear Gentlemen:

On October 20, 1987, the Sacramento City Council adopted a Resolution No. 87-873 authorizing the execution of City Agreement #87096, Consultant and Professional Services Agreement for the Guy West Bridge project located across American River near California State University at Sacramento.

Enclosed, for your records, is one fully certified copy of said agreement and authorizing resolution.

Sincerely,

LORRAINE MAGANA, CITY CLERK

ANNE J. MASON  
Assistant City Clerk

AJM/cc/#29

Enclosure

cc: Public Works  
Risk Management