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DEPARTMENT OF PUBLIC WORKS

CITY OF SACRAMENTO CALIFORNIA

927 10TH STREET SACRAMENTO, CA 95814-2702

PROJECT DELIVERY DIVISION

PH 916-264-8300 FAX 916-264-8281

June 25, 2002

City Council Sacramento, California

AG 2002 - 125  
CO 2002 - 112

Honorable Members in Session:

APPROVED  
JUL 18 2002  
OFFICE OF THE CITY CLERK

**SUBJECT: ARENA BOULEVARD INTERCHANGE PROJECT (PN: TH47) – CONTRACT AWARD TO GRANITE CONSTRUCTION IN THE AMOUNT OF \$13,488,308; APPROVAL OF CONSULTANT SERVICES AGREEMENT WITH PSOMAS IN THE AMOUNT OF \$1,298,898; APPROVAL OF SUPPLEMENTAL AGREEMENT NO. 8 WITH DOKKEN ENGINEERING IN THE AMOUNT OF \$164,600; AND APPROPRIATION OF \$17,153,415 FOR THE ARENA BOULEVARD INTERCHANGE PROJECT (PN: TH47 AND PN: TW01)**

**LOCATION AND COUNCIL DISTRICT:**

Extension of Arena Boulevard at Interstate 5. Council District 1 (see Map, Attachment A).

**RECOMMENDATION:**

This report recommends that the City Council adopt the attached resolution which:

- Awards the construction contract for the Arena Boulevard Interchange Project to Granite Construction in the amount of \$13,488,308;
- Authorizes the City Manager to execute the contract with Granite Construction;
- Approves the Consultant Services Agreement with Psomas in the amount of \$1,298,898 to provide construction management, inspection, materials testing and surveying services;
- Approves Supplemental Agreement No. 8 with Dokken Engineering in the amount of \$164,600; and
- Appropriates a total of \$17,153,415 to the Arena Boulevard Interchange Project (PN: TH47 and PN: TW01).

**CONTACT PERSON:**

Nader Kamal, Senior Engineer, 264-7035  
Steve Pyburn, Senior Engineer, 264-7481

City Council  
Arena Boulevard Interchange Project (PN: TH47)  
June 25, 2002

**FOR COUNCIL MEETING OF:** July 18, 2002

**SUMMARY:**

This report recommends that the City Council award the construction contract to Granite Construction, approve the Consultant Services Agreement with Psomas, approve Supplemental Agreement No. 8 with Dokken Engineering for assistance during construction, and appropriate \$17,153,415 to the Arena Boulevard Interchange Project.

**COMMITTEE/COMMISSION ACTION:**

None.

**BACKGROUND INFORMATION:**

This project was advertised and bids were received on June 19, 2002. The results are summarized below:

| Contractor            | Bid Amount      | ESBE Participation<br>Goal 20% |
|-----------------------|-----------------|--------------------------------|
| Granite Construction  | \$13,488,308.00 | 20.47%                         |
| Goodfellow Brothers   | \$13,879,183.15 | 30.72%                         |
| F.C.I Construction    | \$14,731,583.52 | 24.57%                         |
| Teichert Construction | \$15,182,072.85 | 11.52%                         |

The engineer's estimated construction cost was \$12,500,000.

The low bidder for the Arena Boulevard Interchange was Granite Construction with a bid of \$13,488,308, followed by Goodfellow Brothers with a bid amount of \$13,879,183, a difference of \$390,875.

Granite Construction is the lowest responsive and responsible bidder.

**Project Background**

The proposed project will construct a new interchange on Interstate 5 approximately midway between the Interstate 80/Interstate 5 interchange and Del Paso Road.

The proposed project is needed to accommodate projected increases in traffic volumes caused by population growth and special events at the Arco Arena Sports Complex and to provide direct freeway access to office developments adjacent to Interstate 5. The Arena Boulevard Interchange will improve access within North Natomas, particularly areas east and west of Interstate 5. This interchange is included as a freeway improvement in the North Natomas Financing Plan.

The major elements of the project include the following:

- Extension of Arena Boulevard from East Commerce Way on the east side of Interstate 5 to Duckhorn Drive on the west side of Interstate 5.
- Construction of a new overcrossing at Arena Boulevard and Interstate 5. The overcrossing is a two span cast-in-place pre-stressed concrete box girder bridge approximately 88 meters long and 31 meters wide. The bridge is constructed on pile supported, reinforced concrete columns and abutments.
- Construction of a partial cloverleaf interchange with loop ramps in the northwest and southeast quadrants.
- Widening of northbound and southbound Interstate 5 for continuous auxiliary lanes between the westbound/eastbound Interstate 80 connectors and the Del Paso Road.
- Installation of traffic signals at ramp intersections, and intersections at Arena Boulevard/East Commerce Way and Arena Boulevard/Duckhorn Drive.

Staff is consulting with Caltrans to integrate an on-street bikeway on Arena Boulevard into the project.

### **Construction Management**

City staff has completed the consultant selection process for construction management services for this project and has negotiated with Psomas to provide the necessary services. Psomas was selected in accordance with established City procedures for the selection of firms providing professional services.

A panel reviewed and rated the written proposals and conducted interviews with the four (4) top-ranked firms.

The panel scored each written proposal utilizing the following evaluation criteria:

- Introduction (comprehension of project)
- Qualifications of the firm, project team, and assigned personnel
- Workplan

After review of the proposals, four firm's proposals were considered superior and were scheduled for interviews. The firms were:

- Psomas
- Nolte and Associates
- Parsons Brinckerhoff
- Vali Cooper & Associates

City Council  
Arena Boulevard Interchange Project (PN: TH47)  
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The interview allowed each firm to make a presentation and to address panel member's questions in a question and answer period. The interview with each firm was scored using the evaluation criteria listed above. Overall firm rankings were based on the combined total of points received on the written proposal and interview.

Psomas was the highest ranked firm using the selection process. Psomas has assembled a highly qualified and experienced team to perform the construction management, inspection, materials testing and surveying services needed for this project.

**Supplemental Agreement**

Approval of the Supplemental Agreement No. 8 in the amount of \$164,600 is required to compensate Dokken Engineering for completing additional work and providing support during bidding and construction (see Attachment B).

The following is a summary of the major items:

- The consultant will provide right-of-way maps and legal descriptions after construction is completed as required by Caltrans.
- The consultant will provide all required support and assistant services during bidding and will coordinate all the required relocation utilities.
- The consultant will provide support services during construction.

**FINANCIAL CONSIDERATIONS:**

Staff is recommending a total budget appropriation of \$17,153,415. This will be sufficient to award the contract in the amount of \$13,488,308; approve the Consultant Services Agreement with Psomas in the amount of \$1,298,898; and approve the Supplemental Agreement No. 8 with Dokken in the amount of \$164,600.

The total project budget is as follows:

**Project Costs:**

|   |                     |
|---|---------------------|
| Contract with Granite   | \$13,488,308        |
| Consultant Services Agreement with Psomas                                       | \$ 1,298,898        |
| Supplemental Agreement with Dokken  | \$ 164,600          |
| Habitat Conservation Plan (HCP) Fees  | \$ 530,000          |
| Construction contingency & remaining unencumbered staff and miscellaneous costs | <u>\$ 1,671,609</u> |
|   | \$17,153,415        |

Project funding is as follows:

**Project Funding:**

|   |                     |
|---|---------------------|
| Capital Improvement Bond proceeds       | \$11,600,000        |
| North Natomas fees previously collected | <u>\$ 5,553,415</u> |
|   | \$17,153,415        |

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The attached resolution will increase total appropriations to \$17,153,415.

**ENVIRONMENTAL CONSIDERATIONS:**

An environmental document for CEQA and NEPA requirements (Negative Declaration/Finding of No Significant Impact) was adopted in 1989. Due to changes in several conditions since that time, an Addendum to the adopted Negative Declaration was prepared and reviewed by the City of Sacramento, Planning and Building Department. It was determined that the project would not have a significant effect on the environment over and above what was previously analyzed. On April 9, 2002, the City Council approved the Addendum to the Adopted Negative Declaration for the Arena Boulevard/I-5 Interchange Project. The proposed actions considered at this time do not require further environmental review.

**POLICY CONSIDERATIONS:**

This action is consistent with existing City policies regarding transportation, neighborhood revitalization and enhancement and public safety. The action requested herein is consistent with Sacramento City Code, Title 3.

**ESBD CONSIDERATIONS:**


To encourage small and emerging business participation, specifications were sent to 9 plan rooms and construction service organizations for publication. All are directly involved with ESBE construction firms. Staff actively recruited available ESBE firms to participate in the bid process. Project notices were sent to 30 organizations involved in ESBE recruitment. The project was also announced on the Project Information Line and on the City's Internet site at [www.cityofsacramento.org/bids](http://www.cityofsacramento.org/bids). Both Granite Construction and Psomas have met the ESBE goal.

Respectfully submitted,



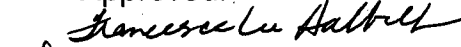
Francesca Lee Halbakken  
Project Delivery Manager

RECOMMENDATION APPROVED:



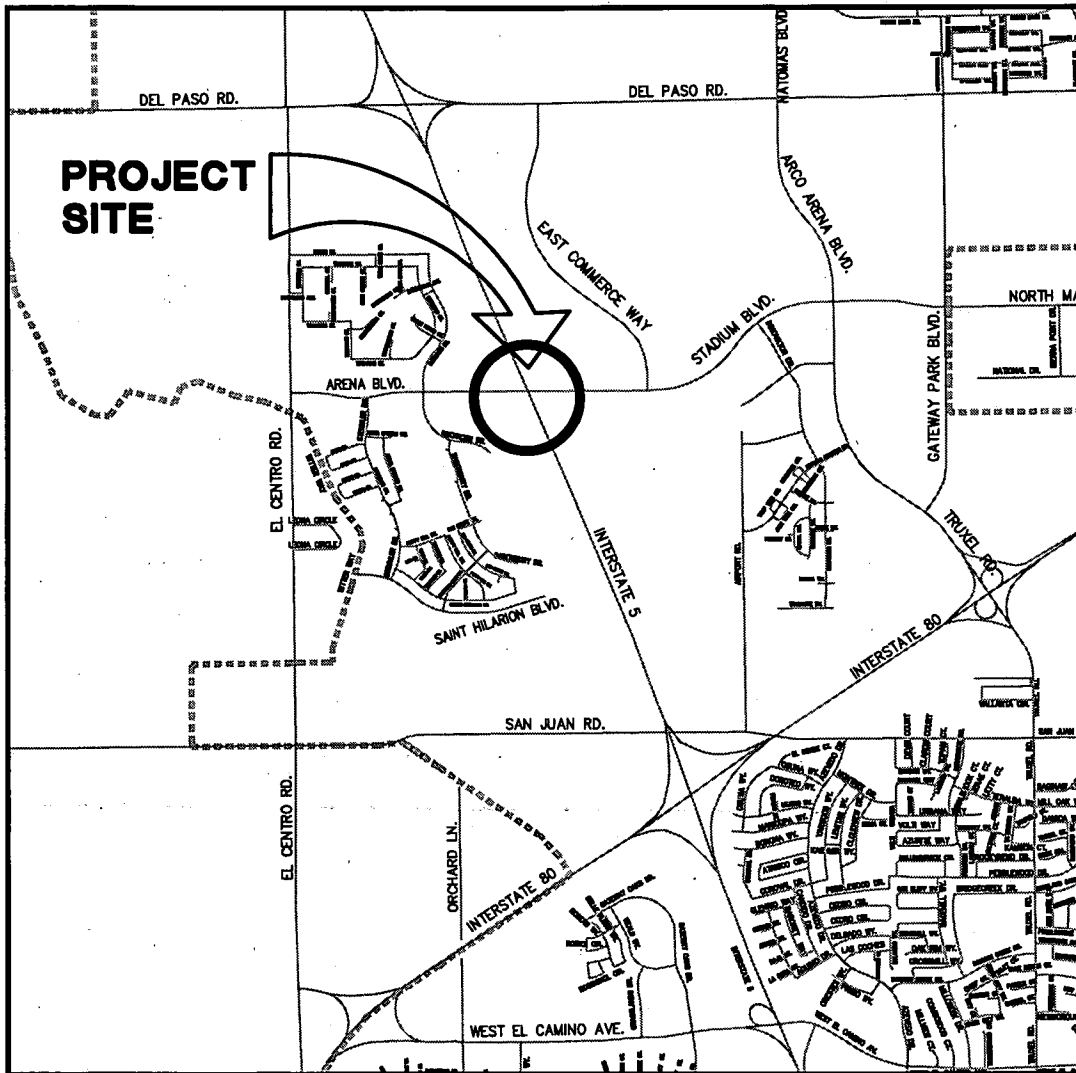
ROBERT P. THOMAS  
City Manager

Approved:



Michael Kashiwagi  
Director of Public Works

# ARENA BOULEVARD INTERCHANGE BETWEEN I-80 AND DEL PASO ROAD



**PN: TH47  
LOCATION MAP**



June 12, 2002

Mr. Nader Kamal  
 City of Sacramento  
 Department of Public Works  
 Engineering Division  
 927 10<sup>th</sup> Street, Room 300  
 Sacramento, CA 95814

03-SAC-5-M6.8/M7.8  
 Improvements on I-5 between  
 Del Paso Road & I-80 Interchanges  
 03-316100  
 Category: 52

**RE: North Natomas Interchanges Agreement  
 Stadium Boulevard/I-5 Interchange  
 Request for Augmentation**

Dear Mr. Kamal:

Pursuant to our discussion, this letter is to request an augmentation to our consultant services agreement to compensate Dokken Engineering and its subconsultants for additional services requested for the above referenced project. These additional services include construction support, engineering design for modification of project plans to provide continuous bike lane on Arena Boulevard, and right-of-way engineering for the proposed Arena Boulevard/I-5 interchange and associated freeway improvements. Following is an outline of the work involved which is beyond that authorized in our contract and subsequent supplemental requests. A summary of the additional tasks and the estimated cost associated with each task are included for your consideration.

**A. Construction Support Services**

It is estimated that the construction of this project will be completed in approximately 18 months. It is anticipated that the City will perform inspection services during the construction phase of the project. At the City's request, Dokken Engineering will be available to provide the following typical construction support services. The hours shown below are provided for budgetary purposes only. The time spent on the project during the construction phase is dependent on the contractor's operation and schedule, and will be invoiced on a monthly or bi-monthly basis for the services performed at the request of the field personnel. Compensation for the services rendered will be on an hourly basis at the rate indicated for each classification. The direct costs will include reproduction, and other out-of-pocket expenses.

- Provide Resident Engineer's file.
- Attend pre-construction meeting and other meetings, as needed.
- Review and approve all contract-required submittals and shop drawings.
- Provide on-going consultation and interpretation of contract documents, as required.
- Review and recommend dispositions of contract change orders, as required.
- Prepare plan(s) and/or specification(s) for contract change order(s).

- Prepare and deliver to the City the record drawings of the project within two months of completion of construction, based on the mark up set of the drawings furnished by the Resident Engineer.

| <b>Classification</b>     | <b>Hours</b> | <b>Rate</b> | <b>Fee</b>       |
|---------------------------|--------------|-------------|------------------|
| Project Manager           | 158          | \$145.00    | \$22,910         |
| Senior Engineer           | 248          | \$135.00    | \$33,480         |
| Associate Engineer        | 372          | \$100.00    | \$37,200         |
| Assistant Engineer        | 214          | \$85.00     | \$18,190         |
| Detailer                  | 172          | \$80.00     | \$13,760         |
| Topographic Surveys, Inc. | Lump Sum     | Lump Sum    | \$6,500          |
| Direct Cost               | Lump Sum     | Lump Sum    | \$1,500          |
| <b>Total</b>              | <b>1164</b>  |             | <b>\$133,540</b> |

### B. Modification to the Plans

The signing and striping plans have been prepared and approved in accordance with Caltrans' requirements, which is to allow only necessary signage and associated striping for a Class II bike route utilizing the proposed 6' shoulders on Arena Boulevard within their access control limits. We are now being directed by the City to prepare conceptual plans for Caltrans concurrence of bike lane instead of bike route on Arena Boulevard between Duckhorn Drive and East Commerce Way. Upon conceptual approval of this bike lane plan by Caltrans, we will be required to revise the project plans and specifications, and issue a change order during construction to implement these changes in the field. These changes require additional effort from Dokken Engineering staff.

| <b>Classification</b> | <b>Hours</b> | <b>Rate</b> | <b>Fee</b>      |
|-----------------------|--------------|-------------|-----------------|
| Project Manager       | 16           | \$145.00    | \$2,320         |
| Senior Engineer       | 72           | \$135.00    | \$9,720         |
| Assistant Engineer    | 8            | \$85.00     | \$680           |
| Drafter/Detailer      | 24           | \$80.00     | \$1,920         |
| <b>Total</b>          | <b>120</b>   |             | <b>\$14,640</b> |

### C. Right-of-Way Maps

The City or their representative will perform Construction Management and Inspection services during the construction phase of the project. The construction staking, right-of-way boundary, limits of the construction easements, and right of monumentation associated with this project will be provided by others, and a record of surveys will be filed by them with the County. At the City's request, Dokken Engineering and our subconsultant, Topographic Surveys, Inc., will prepare the right-of-way maps and legal descriptions, in Caltrans format, for relinquishing properties within Caltrans' access control from the City of Sacramento to the State of California.



| Classification            | Hours           | Rate            | Fee             |
|---------------------------|-----------------|-----------------|-----------------|
| Principal/Project Manager | 16              | \$145.00        | \$2,320         |
| Associate Engineer        | 24              | \$100.00        | \$2,400         |
| Assistant Engineer        | 4               | \$85.00         | \$340           |
| Detailer                  | 80              | \$80.00         | \$6,400         |
| Topographic Surveys, Inc. | <u>Lump Sum</u> | <u>Lump Sum</u> | <u>\$4,960</u>  |
| <b>Total</b>              | <b>124</b>      |                 | <b>\$16,420</b> |

We view the above changes as an increase in our scope of work. Therefore, we request that our contract be augmented by **\$164,600** to cover the additional work.

If there are any questions, please call me at (916) 858-0642.

Sincerely,

DOKKEN ENGINEERING



Ali A. Hemmati, P.E.  
Project Manager

cc: Richard Dokken

885-52/AAH/LC

**APPROVED**

JUL 18 2002

OFFICE OF THE  
CITY CLERK

**RESOLUTION NO. 2002-468**

ADOPTED BY THE SACRAMENTO CITY COUNCIL

ON DATE OF \_\_\_\_\_

**RESOLUTION AWARDDING THE CONTRACT TO GRANITE CONSTRUCTION, AUTHORIZING THE CITY MANAGER TO EXECUTE A CONSTRUCTION CONTRACT IN THE AMOUNT OF \$13,488,308 WITH GRANITE CONSTRUCTION, APPROVING THE CONSULTANT SERVICES AGREEMENT WITH PSOMAS IN THE AMOUNT OF \$1,298,898, APPROVING SUPPLEMENTAL AGREEMENT NO. 8 WITH DOKKEN ENGINEERING IN THE AMOUNT OF \$164,600, AND APPROPRIATING \$17,153,415 FOR THE ARENA BOULEVARD INTERCHANGE PROJECT (PN: TH47 and PN: TW01).**

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

1. The contract is awarded to Granite Construction for its bid amount of \$13,488,308.
2. The City Manager is hereby authorized and directed to execute a contract with Granite Construction in the amount of \$13,488,308.
3. The City Manager and City Clerk are hereby authorized and directed to execute on behalf of the City, the attached Consultant Services Agreement in the amount of \$1,298,898 with Psomas for construction management, inspection, surveying and materials testing services.
4. The City Manager and City Clerk are hereby authorized and directed to execute on behalf of the City, the attached Supplemental Agreement No. 8 in the amount of \$164,600 with Dokken Engineering for support during construction.
5. The City Manager is hereby authorized to appropriate a total of \$17,153,415 to the Arena Boulevard Interchange Project (PN: TH47 and PN: TW01).

\_\_\_\_\_  
MAYOR

ATTEST:

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

**FOR CITY CLERK USE ONLY**

RESOLUTION NO.: \_\_\_\_\_

DATE ADOPTED: \_\_\_\_\_