

June 21, 2010

Ann Chaney
Community Development Director
City of Albany
1000 San Pablo Avenue
Albany, CA 94706

Re: Pierce Street Pavement Rehabilitation and Bikeway - Proposal for
Additional Services

Dear Ann:

Thank you for inviting Kimley-Horn and Associates, Inc. (KHA) to provide additional services regarding the Pierce Street Rehabilitation and Bikeway project. The services are to provide assistance to the city related adding an additional review (35% design review package), design of approximately 400' extension of soundwall, review and design of ADA compliant ramps and hardscape, add services from Associated Engineering Consultants, Inc. for the update of roadway geotechnical information, inclusion of selected NPDES design options, and additional coordination with other City projects adjacent to the project area.

Our services will comprise of the following:

- **35% Design Review Package**
Consistent with discussions from the Project Kickoff meeting on November 24, 2009, KHA will prepare a 35% plans and estimate for review by project stakeholders. This plan set will incorporate comments generated from the 20% Design Plan and include the additional scope of services described herein. One additional meeting has been assumed for this task.

Additional Deliverables:

35% plans

35% Engineer's Estimate of Probable Construction Costs (EOPCC)

Estimate: \$9,100



- **Soundwall Extension**

KHA will provide design services for extension of the existing soundwall separating Pierce Street from I-80 to the southern condominium garage entrance at 555 Pierce Street for approximately 400'. KHA will research all applicable as-builts regarding the soundwall. Depending on the soil conditions, either a Caltrans standard wall or a special design will be required. Our request for additional funds assumes a special design (the worst case condition), but should a standard design be all that is required, the additional cost will not be charged to the City (see attachment).

KHA will contract with Hultgren-Tillis to provide the geotechnical investigation and report required to determine the design parameters for the design. Two bores are anticipated for the 400' extension. Should the City or LLC wish to contract directly with Hultgren-Tillis, the request for this service would be eliminated from this request for additional services

Additional Deliverables:

Soundwall plan and detail sheets in the plan set

Soundwall specifications added to the technical provisions

Soundwall added to the Estimate of Probable Construction Costs (EOPCC)

Geotechnical Report

Estimate: Caltrans standard wall \$14,000

Special design wall \$31,400

Hultgren-Tissis \$8,250

- **ADA Compliant Ramps and Hardscape**

The City has requested that KHA review the curb ramps located on Pierce Street between Calhoun Street and Buchanan Street to review them for compliance with ADA standards. While the existing topography and development in the area impose design constraints, KHA staff determined that the following curb returns and hardscape should be retrofitted to meet ADA standards:

Cross Street	Location	Issue	Resolution
Calhoun	SW Corner	No Ramp	New Ramp
	Bus Stop Island	No Ramps Sidewalk slope exceeds 2%	New Ramps Modify sidewalk
	SE Corner	No Ramp	New Ramp
Washington	SW Corner	4' clear min. behind ramp exceeds 2% max.	Modify Ramp
Solano	NW Corner	Large curb radius Inadequate ped refuge island	Shrink curb radius Remove island
	SW Corner	No Ramp	New Ramp
Johnson	SW Corner	4' clear min. behind ramp exceeds 2% max.	Modify Ramp
	SE Corner	4' clear min. behind ramp exceeds 2% max.	Modify Ramp

In addition, all existing and proposed curb ramps will need to have truncated domes (detectable warning surface) installed to comply with current ADA standards.

Additional Deliverables:

Intersection detail sheets added to the plan set

Estimate: \$5,000

- **Updated Pavement Geotechnical Engineering**
KHA will contract with Associated Engineering Consultants, Inc. (AEC) of Redding to provide professional engineering services related to providing structural and materials recommendations in conjunction with the proposed rehabilitative measures already established by KHA. AEC will provide the following tasks:
 1. Review of previous materials sampled, review current onsite conditions, review proposed solutions as designed by KHA.
 2. Provide structural recommendations for the subject section of Pierce Street to be rehabilitated. Structural recommendations will include conventional sections of asphalt-concrete and



- aggregate base (or similar), alternatives using rubberized asphalt-concrete, open gap graded asphalt-concrete, etc.
3. Provide materials recommendations for asphalt-concrete, etc., in the form of a “special provision” which modifies the language typical to the State of California State Standard Specifications.
 4. Consider, and if applicable, recommend “green solutions” in terms of storm water drainage and its egress from the asphalt-concrete pavement surface. Said solutions shall be general in nature.

KHA will incorporate AEC recommendations for the updated structural section for the travel way into the plans and specifications.

Additional Deliverables:
Geotechnical Report Update

Estimate: \$500
 AEC \$7,350

- **NPDES Design**
KHA is preparing the technical memorandum report for the NPDES options under the current contract. The report will be updated based on the results of the AEC investigation. The City could choose one or more options to be added to the design. Should pervious asphalt or pervious concrete be a viable option for the structural section of one or both parking areas along the northern stretch of Pierce Street, with the City’s concurrence, KHA will provide a design detail(s) for the structural section and add the required section(s) to the special provisions and engineers opinion of probable construction costs (estimate). This task covers adding the option(s) selected by the City to the PS&E package.

Additional Deliverables:
Detail sheets depicting the NPDES option added to the plan set
NPDES option added to the technical provisions
NPDES option added to the Estimate of Probable Construction Costs (EOPCC)

Estimate: \$11,200



- **Additional Coordination**

For design and construction of the items included in this proposal for Additional Services, there will be additional time required to coordinate with Caltrans, utility companies, and City agencies. KHA will also need to coordinate our plans with other consultants for their signal design at Buchanan at Pierce. Ten additional hours has been designated for this task.

Estimate: \$2,000

Our anticipated fee for these services (assuming the special design wall and that KHA will subcontract with Hultgren-Tillis and AEC) is **\$74,800**. (If a Caltrans standard wall can be used, the fee would be decreased by \$17,400. Should the City or LCC contract directly with Hultgren-Tillis, the fee would be reduced by \$8,250.) Since these services are outside the scope of our original contract, it is important that we obtain written authorization. The terms and conditions of our agreement with the city apply to these additional services.

If you concur with the above and wish us to provide the services, please provide a written authorization and notice to proceed. Please call me if you have questions or we can be of any further service. Thank you.

Very truly yours,

KIMLEY-HORN AND ASSOCIATES, INC.,

A handwritten signature in black ink, appearing to read "Jim West", with a horizontal line extending to the right.

Jim West, P.E. C65854

Basis of Estimate for the Soundwall

Kimley-Horn and Associates, Inc. (KHA) will prepare plans and special provisions for 400 LF of 8 ft high soundwall on Pierce St for the City of Albany. The City of Albany project will be in English Units and the drawings will be prepared in AutoCAD version 2007.

General Understanding

The soundwall will be an extension along the length of existing soundwall between I-80 and Pierce St. The height of the proposed soundwall measured from existing ground/proposed grade to the top of wall will be approximately 8 ft.

Two alternative design scopes and design fee estimates are based on the following possible soil conditions.

I- Caltrans Standards Case – site soil conditions match Caltrans Standards.

The soundwall and foundation will be per the details shown in Caltrans Standards RSP B15-1 to B15-15, based on the updates available as of the project bid date.

II- Special Design Case – site soil conditions require special design.

The soundwall and foundation will be based on the details shown in Caltrans Standards RSP B15-1 to B15-15. However, the CIDH pile spacing and depth will have to be a special design based on the site specific geotechnical recommendations.

Assumptions

- 1) The plan and profile for the sound walls will require 3 plan sheets with roughly 140 LF on each sheet.
- 2) If required (special design case), the soundwall will be designed for dead load + wind load (or) seismic load, whichever is more critical. It is assumed that there will be no soil height difference between the two sides of the wall in keeping with Caltrans requirements, i.e. the soundwall will not be designed to retain earth. It is also assumed that there will be no barrier under the soundwall and the soundwall

will be protected on the I-80 side by the guardrail that presently exists.

- 3) If required (special design case), the foundation for the soundwall will be 16" (or) 24" CIDH piles, unless soil conditions allow for the use of a spread footing. Foundation recommendations including vertical and lateral soil parameters for design, active and passive earth pressures, subgrade reaction, soil weight, coefficient of friction, water table requirements and all other typical geotechnical parameters will be provided by a geotechnical consultant.
- 4) There will be 4 submittals for the soundwall- 35%, 65%, 95% and final. The comments received during each submittal will be discussed and addressed and included in the next submittal.
- 5) Special provisions, quantities and cost estimates will be prepared to supplement and in accordance with the Caltrans standard construction specifications.

Design Fee Estimate Summary

Case I- \$14,000

Case II- \$31,400