

October 25, 2012

Job No. 12205

City of Albany
Department of Public Works
548 Cleveland Avenue
Albany, California 94710

Attn: Ms. Ana Bernardes, P.E.
Project Manager

Mr. Randy Leptien, P.E.
Consulting Engineer to the City of Albany

Subject: Buchanan/Marin Bikeway – Pierce Street to San Pablo – Contract C12-2
Construction Management Services

Respective Parties:

AEC has prepared the following proposal for construction management services associated with the above referenced project.

The services described in this proposal are to provide a preliminary review of project submittals, an allowance for on site pre-construction meetings, construction inspection (nuclear gauge density testing inclusive) specific to the placement of hot mix asphalt-concrete (HMAC) materials, laboratory material testing of HMAC materials and reporting of results for the subject project. The services described in this proposal are also specific to the placement of Portland Concrete Cement (PCC) materials, laboratory material testing of PCC materials and reporting of results for the subject project.

Our proposal is based in part on the estimated amount of production paving both in terms of days of production paving and projected tonnage of HMAC to be placed. We are currently estimating 4 days of production paving. We have included an allowance for an inspector at the hot mix plant, which is common on projects such as these. We are currently estimating 17 days of significant production with regard to the placement of PCC materials. We base this estimate on experience on similar jobs knowing that said inspector should be present during the initial placement of materials as well as present during the final phases of rolling to make certain compaction, etc., is achieved. Some additional inspection time is included for general project inspection, inspection of base type materials, etc.

The following tasks are included under this proposal:

- Task 1.** Review all certificates of compliance for materials proposed for use on the project. Communicate with the Resident Engineer and all other appropriate parties with a vested interest as needed. Conduct a review of the construction schedule/phasing and provide input and instruction as necessary for planned work along the subject section of Pierce Street.
- Task 2.** Participate in the necessary pre-construction meetings and site review prior to the commencement of construction.
- Task 3.** Provide construction inspection services, as appropriate, in the inspection of the sub-grade preparation (as needed), the placement of PCC materials, as well as the placement of hot mix asphalt-concrete materials on major paving production days. Some material sampling, as appropriate, will take place in conjunction with Task 3.
- Task 4.** Participate, as appropriate, in the sampling of various materials and the testing thereof using, in part, laboratory based services.
- Task 5.** Assemble and report on inspection findings and materials testing results. The report will be assembled in such a manner that said data can be filed as appropriate and be easily presented and interpreted in the event of an audit by Caltrans, etc.

COST OF SERVICES

This proposal is based on providing full time inspection and a final walk at the conclusion. The cost for construction management and inspection services is estimated at \$59,420. This proposal will be adjusted once an actual schedule accepted. Review of the schedule as submitted by the selected Contractor will potentially allow for a lowering of costs by identifying days in which multi-tasking may take place, etc.

Please call (530) 226-1616 if you have any questions or comments.

Respectfully yours,
ASSOCIATED ENGINEERING CONSULTANTS, INC.

Andrew L. Jones
Project Manager

ASSOCIATED ENGINEERING CONSULTANTS, INC.
20179 Charlanne Drive-Redding, CA 96002 530-226-1616

CITY OF ALBANY

Buchanan/Marin Bikeway - Pierce Street to San Pablo
Contract No. C12-2
CM, Inspection & Testing Cost Proposal

October 25, 2012

Job No. 12205

Tasks	Unit Fee	Units	Quantity	Fee
TASK-1 Mix Design / Submittal Review				
Project Engineer	\$ 120.00	hrs	6	\$ 720.00
Senior Engineer	\$ 140.00	hrs	2	\$ 280.00
			Task Subtotal	\$ 1,000.00
TASK-2 Pre-Job Meetings / Misc. Review				
Project Engineer	\$ 120.00	hrs	16	\$ 1,920.00
Fuel Allowance			Lump Sum	\$ 300.00
			Task Subtotal	\$ 2,220.00
TASK-3 Project Engineer, Inspection & Density Testing				
Project & Field Administration				
(Assumed 3 days @ 10 hrs/day)				
Project Engineer (Quality Control Manager)	\$ 120.00	hrs	30	\$ 3,600.00
Fuel Allowance			Lump Sum	\$ 450.00
General Construction Inspection*				
(Assumed 14 days construction @ 10 hrs/day)				
Senior Construction Inspector	\$ 110.00	hrs	142	\$ 15,620.00
Fuel Allowance			Lump Sum	\$ 1,250.00
* Includes Nuclear Gauge Testing				
Per Diem - Project Engineer/Senior Const. Inspector	\$ 150.00	ea	17	\$ 2,550.00
			Task Subtotal	\$ 23,470.00
TASK-4 Materials Inspection/Testing				
Native Material / Aggregate Base / Laboratory Materials Testing				
Optimum Moisture-Density Curve ASTM 1557 - Native Soil	\$ 290.00	ea	2	\$ 580.00
Optimum Moisture-Density Curve ASTM 1557 - Aggregate Base	\$ 290.00	ea	2	\$ 580.00
Sieve Analysis - Aggregate Base	\$ 175.00	ea	2	\$ 350.00
R-Value - Aggregate Base	\$ 350.00	ea	2	\$ 700.00
PCC Sampling / Laboratory Materials Testing / Inspection				
Senior Construction Inspector (Assumed 17 days production @ 6 hours per day)	\$ 110.00	hrs	102	\$ 11,220.00
Laboratory Testing, Etc. (CTM 202, 217, 226, 227, 504, 518, 533 As Needed)			Lump Sum	\$ 3,300.00
Fuel Allowance			Lump Sum	\$ 1,500.00
Hot Plant Inspection / Laboratory Materials Testing*				
<i>Based on tests conducted per current LAPM</i>				
<i>(1,250 tons of production paving)</i>				
Asphalt Plant Inspector (Assumed 4 days production @ 10 hours per day)	\$ 95.00	hrs	40	\$ 3,800.00
Asphalt Binder Content CTM 379 or 382	\$ 125.00	ea	4	\$ 500.00
Gradation Tests CTM 202	\$ 150.00	ea	4	\$ 600.00
HMA Moisture Content CTM 226 or 370	\$ 300.00	ea	4	\$ 1,200.00
Maximum Theoretical Unit Weight (ASTM D-2041)	\$ 150.00	ea	4	\$ 600.00
Stabilometer Value CTM 366	\$ 300.00	ea	4	\$ 1,200.00
Air Voids Content CTM 367	\$ 325.00	ea	4	\$ 1,300.00
Aggregate/RAP Moisture Content CTM 226 or 370	\$ 300.00	ea	4	\$ 1,200.00
Core Unit Weight (Nuclear Gauge Correlation) CTM 205	\$ 75.00	ea	4	\$ 300.00
Pavement Coring (Includes bit charge)	\$ 225.00	hr	4	\$ 900.00
Sand Equivalence	\$ 105.00	ea	4	\$ 420.00
% Crushed Particles (CTM 205-M)	\$ 150.00	ea	4	\$ 600.00
* Includes AC Plant Inspection and Monitoring. Testing does not include aggregate quality tests; (LA Abrasion, durability, cleanliness, etc.) Estimated for 5 days of paving production; conventional HMAC				
Per Diem - Asphalt Plant Inspector	\$ 150.00	ea	4	\$ 600.00
Mobile Laboratory Mobilization (one trip to site)			Lump Sum	\$ 500.00
Fuel, Photograph, Materials Allowance			Lump Sum	\$ 500.00
			Task Subtotal	\$ 32,450.00
TASK-5 Report / Records				
Project Engineer	\$ 120.00	hr	16	\$ 1,920.00
Senior Engineer	\$ 140.00	hr	2	\$ 280.00
			Task Subtotal	\$ 280.00
Estimated Construction Management / Materials Testing Total:				\$ 59,420.00