



June 14, 2019

MP19-280

Yama Farouqi, PE  
 Associate Civil Engineer  
 Department of Public Works  
 Engineering & Transportation  
 City of Hayward  
 777 B Street  
 Hayward, CA 94541

Subject: City of Hayward – Submittal for Engineering Support Services for the FY 2020 Pavement Rehabilitation and Preventive Maintenance & Resurfacing Project

Dear Yama:

Pavement Engineering Inc. (PEI) appreciates the opportunity to respond to the City's RFP to provide Engineering Support Services for the City's FY 2020 Pavement Rehabilitation and Preventive Maintenance & Resurfacing Project. *As the premier pavement engineering company in California*, we welcome the opportunity to exceed your goals by providing the highest quality of work for this project.

Established in 1987, PEI is a Civil Engineering consultant firm specializing in everything pavement. Whether it is pavement management, evaluation, design, testing, inspection, QC/QA or construction management, it's all we do. It is what we have been doing for 30+ years. Based on our experience and expertise, highly trained staff, and hands-on knowledge, we are confident we can deliver superior civil engineering design services for any pavement and street improvement projects for the City of Hayward, on time and on budget.

PEI brings the following strengths to the City of Hayward:

- Unparalleled expertise in pavement rehabilitation, maintenance, assessment and streetscape projects.
- Thousands of pavement evaluation studies and recommendations for public agencies throughout California.
- Contract documents and contract administration services for many types of roadway projects, including federal aid projects.
- Three Caltrans and three AASHTO certified testing laboratories in California.
- Fully trained, Caltrans-certified inspectors and contract administration staff specializing in pavement maintenance and rehabilitation projects.
- Highly experienced and knowledgeable Licensed Civil Engineers

This proposal highlights PEI's experience and qualifications for providing civil engineering services, with an emphasis in pavement, for public agencies throughout California. At PEI, we are experts in value engineering for pavement preservation and preventative maintenance treatments. Our highly skilled staff, which is outlined throughout the proposal, are all experts in pavement and roadway projects. In addition to our highlighted experience working with public agencies throughout the state in the last 30+ years.

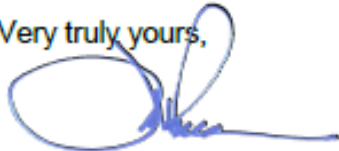
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All outlined work in the RFP is expected to be performed in-house and no sub-consultants will be used. This allows us to be able to control our schedule and be fully available to the City. PEI will be fully committed to and available throughout the term of the contract and for all tasks related to projects for the City. With 85+ employees, we will be able to respond quickly and efficiently to all of the City's requests. Because we take a hands-on, personalized approach with all our clients, assigned staff will remain with all projects from start to finish. This ensures that the City receives consistent services with reliable, accurate results delivered on time and within budget.

We value our relationship with the City of Hayward and will commit to provide our services with honesty, trust and professionalism. *As our slogan says, "You can ride on our reputation."*

All projects and services for the City of Hayward will be managed out of our Concord office, with any needed support coming from the rest of the company. I will be the main contact person for all related RFP and project questions and communications between PEI and the City.

Very truly yours,



Joseph L. Ririe, P.E.  
President & Senior Principal Engineer

Pavement Engineering Inc.  
5702 Marsh Drive, Unit T  
Pacheco, CA 94553  
JoeR@PavementEngineering.com  
Phone: 805.781.2265

Attachments: Cost Proposal and Scope of Work

## **COST PROPOSAL**

### **ENGINEERING SUPPORT SERVICES**

#### **CITY OF HAYWARD**

#### **FY 2020 Pavement Rehabilitation and Preventive Maintenance & Resurfacing Project**

### **SCOPE OF WORK**

Our scope of services includes street investigation and engineering review; pavement evaluation; quantity measurements; ADA Curb ramp design; and construction support. A detailed description of each task is provided below.

All work shall be performed by PEI, no outside subconsultants will be used. This approach will streamline project communication and accelerate the delivery time.

#### **TASK 1 - Street Investigation / Engineering Review**

PEI will visually evaluate the pavement condition of each of the proposed project streets itemized in the enclosed street list. The review will confirm the appropriate pavement treatment for each street, pavement rehabilitation, and preventive maintenance & resurfacing, among other options. This task will allow PEI to recommend refinement of the project budget and identify any specific problem areas. After review, the PEI will meet with the City staff and review findings and recommendations.

During the review, we will estimate the amount of crack sealing and digout repairs that will be needed. After the visual review, a preliminary cost estimate for each street will be developed based on the identified treatment and amount of crack sealing and digouts. This cost will be used to refine the project budget. The cost estimate will be submitted to the City for review.

**Estimated Fee for Task 1:**      \$32,000

#### **TASK 2 - Pavement Evaluation on Pavement Rehabilitation**

A pavement evaluation will be performed on each street segment that is identified as needing a rehabilitation treatment to determine the most cost-effective rehabilitation treatments for each street based on structural requirements, reflective cracking requirements, longevity and economy.

The evaluation work will consist of deflection testing each street segment or lane in each direction on a maximum of 100-foot intervals with a minimum of 10 tests per lane. Each street will have the existing pavement section (Asphalt Concrete & Aggregate Base) measured in 500-foot intervals in alternating lanes with a minimum of 2 locations per segment. Streets that are divided by a median shall be counted as separate segments.

Native soil samples shall be collected at 1,000-foot intervals or a minimum of one per street segment to determine the load-bearing capacity (R-value).

Using the data collected in the field, each street segment will be evaluated in general conformance with CTM 356 and constructability for using methods that include overlays, milling and replacement, Cold In-place Recycling (CIR), and full depth reclamation.

**Estimated Fee for Task 2:** \$170,705

### **TASK 3 - Measurement of Field Quantities**

PEI will physically walk each of the project streets identified in the project streets list to measure and record all pertinent field quantities. Physically measuring the quantities to provide confidence that the bid quantities are correct.

All field quantities of physical elements for incorporation in the rehabilitation and preventive maintenance & resurfacing works for each street will be measured and recorded on walking sheets. This information includes the location of crack sealing, digouts, and other pavement repairs. The pavement area of each street will be determined from the City's PMS database.

Construction of handicap ramps, PCC valley gutter, traffic detector loop, utilities adjustment, tree root pruning, striping and markings will be identified during field reviews. The Consultant will take note of these works in determining the repairs to be included to the bid quantities.

This information will be summarized by street on a spreadsheet and submitted to the City for their use in preparing the bid documents.

**Estimated Fee for Task 3:** \$70,970

### **TASK 4 - Curb Ramp Design**

PEI will assist the City of Hayward with curb ramp designs related to this project. This task involves designing ADA ramps in the field to provide limits of removal and quantities of work.

The work product will consist of measuring and marking out the limits of new concrete required to install a compliant ramp. For more complex ramps that have steep slopes, utility boxes or path of travel obstructions, PEI will prepare a hand-drawn scaled site sketch with elevations, slopes and dimensions necessary to determine the limits of the proposed ramp repair. Copies of the designs will be reviewed with the City staff.

**Estimated Fee for Task 4:** \$106,745

## TASK 5 - Construction Support / Mark Pavement Repairs

After the project is bid and before the construction begins, PEI will mark all of the pavement repairs in the field. PEI will annotate any changed quantities and provide a revised quantity summary to the City at the completion of the field work.

### Project Schedule

PEI understands that time is of the essence. We are committed to completing the final contract documents quickly, so the City can enter into a construction contract by January of 2020.

**Estimated Fee for Task 5 :**      \$52,115

### PROPOSAL FEE & FEE BREAKDOWN

Pavement Engineering Inc.'s fee for the work is based on the referenced RFP and our experience with similar projects performed in the Bay Area and throughout California.

The estimated fee for the total project, including all field work, design work and contract document development up to completion of the project, will be \$432,535. Our fee is based on a construction cost of approximately \$6.4 million.

The estimated fee breakdown will serve as guidelines. Our work will be invoiced on a time and materials basis. The individual fees associated with each task will serve as guidelines for progress payments. All fees and costs associated with this project are subject to final negotiation with the City of Hayward. Any change in scope may result in additional fees.

Submitted by:

Pavement Engineering Inc.  
Print / Type Company Name

3485 Sacramento Drive, Suite A  
Company Address (Corporate Off.)

San Luis Obispo, CA 93401  
City / State / Zip Code



\_\_\_\_\_  
Signature of Company Official

Joseph L. Ririe, President  
Print / type Official Name & Title

6/14/2019  
Date