

**TO:** James L. App, City Manager  
**FROM:** Doug Monn, Public Works Director  
**SUBJECT:** Award Contract to Cornerstone Engineering for Project Management Associated with the Rehabilitation and Addition to the Wastewater Treatment Facility  
**DATE:** May 20, 2008

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**NEEDS:** For the City Council to consider appropriating funding and authorize preparation of a contract for Project Management Services associated with the design to rehabilitate and expand the Wastewater treatment facility.

- FACTS:**
1. The City needs to rehabilitate its aging Wastewater Treatment Plant.
  2. In order to meet discharge permit requirements and develop the potential for recycle water the City must address ammonia and nitrification issues at the facility. This will require the construction of a secondary processes facility.
  3. The project is estimated to cost approximately \$30 million dollars (\$30,000,000) to construct.
  4. To accomplish the design and construction of the treatment facility within the twenty-four (24) month design period, staff has requested a proposal from Cornerstone Engineering to provide Project Management of the design process.
  5. Derrill Whitten PE, PLS will be the Project Engineer assigned to manage the project for the City and to ensure the final design provides the required treatment necessary to meet the City's permit requirements.
  6. Mr. Whitten has an engineering degree from the University of Texas, is a licensed Civil Engineer, Land Surveyor and a Grade V Wastewater Treatment Plant Operator. He has 17 years of experience. Prior to joining Cornerstone Engineering he served on staff with the City of Bakersfield as the Wastewater Manager, overseeing the operations of the two Bakersfield treatment plants, each processing about 15 million gallons per day of wastewater. He has supervised the development of several plant upgrade projects for Bakersfield. His last major project was the conversion of a trickling filter plant to an activated sludge process, very similar to the project anticipated for the Paso Robles Wastewater Facility.
  7. Cornerstone Engineering has provided the City with a cost of \$150,000 to supply the necessary services.
  8. Staff is requesting an allocation of \$170,000 to cover the cost of Cornerstone's services. The requested amount includes a \$20,000 contingency to offset the cost of possible unforeseen conditions resulting from potential coordination, treatment or Regional Board issues associated with the design of the project.

**ANALYSIS &  
CONCLUSION:**

The Plant rehabilitation and addition is an important asset to the City. The continued growth and economic vitality of the City and its inhabitants is predicated upon there being adequate waste water treatment capabilities meeting the discharge requirements set forth by the various regulatory agencies. To ensure deliverability of the resource at the lowest cost, construction of properly functioning and easily maintained treatment facility will be essential. Therefore, it would appear to be in the best interest of the City of Paso Robles and its water users to retain the service of Cornerstone Engineering to provide a Project Management Service associated with the design of the City's treatment plant.

**FISCAL  
IMPACT:**

Cornerstone Engineering proposes to provide Project management Services for a cost not to exceed \$150,000. Because of the scope of the Treatment Project and the possibility of potential changes initiated by regulatory agencies that could result in possible design amendments during the twenty-four (24) month design schedule staff suggests a \$20,000 contingency be included should additional hours be required. The cost for this service would be paid from the Wastewater Treatment Operating Fee Fund.

	Total	% Operations	% Connection Fees
River Road Sewer (with road closure)	\$5,277,000	50% or \$2,638,500	50% or \$2,638,500
Sodium Hypochlorite	\$1,500,000	70% or \$1,050,000	30% or \$450,000
Palm Court Sewer	\$375,000	30% or \$112,500	70% or \$262,500
WWTP Upgrade Design & Oversight	\$1,270,000	100% or \$1,270,000	
	\$8,422,000	\$5,071,000	\$3,351,000

**OPTIONS:**

- a. Adopt Resolution No. 08-xx appropriating \$170,000 from Wastewater Treatment Operating Fee Fund to Budget No. 601-910-5224-683 and authorize the City Manager to enter into a contract with Cornerstone Engineering in the amount of \$170,000 to provide Project Management Services associated with the design of the wastewater treatment facility.
- b. Amend, modify, or reject the above option.

Attachments (2)

- 1) Scope of Work
- 2) Resolution



CORNERSTONE  
ENGINEERING  
CONSULTING CIVIL ENGINEERS & LAND SURVEYORS

March 7, 2008

313-01-00

Public Works Department  
City of El Paso de Robles  
1000 Spring Street  
Paso Robles, California 93445

Civil  
Engineering

Surveying  
Services

Sewer & Water  
Engineering

Storm Water  
Engineering

Storm Water  
Quality  
SWPPP

Road And  
Street  
Engineering

School  
Site  
Engineering

Site  
Development  
Planning  
And  
Surveying

Construction  
Staking  
Services

Redevelopment  
Area  
Enhancement  
Engineering

Traffic  
Engineering

Transportation  
Planning

Attn: Doug Monn, Public Works Director

Re: Program Management and Wastewater Consulting for Expansion of Wastewater Treatment Plant

Cornerstone Engineering, Inc. is pleased to submit this proposal and scope of work to provide the City of Paso Robles with program management and engineering consulting services for the expansion of the wastewater treatment plant in Paso Robles. You have requested that we prepare a scope of work and fee proposal for the management of the program through the design engineering phase of the project. Therefore, this letter is presented as a proposal for the work required.

The City of Paso Robles has selected Black and Veatch to be the design engineer on the project. Cornerstone Engineering is currently working with Black and Veatch to develop the scope of work for the first phase of the project and will be negotiating a fee for these services. We anticipate that the total design effort will take 18-24 months through complete design and out to bid. Cornerstone Engineering, Inc. is prepared to provide the design management of this effort as described below:

1. Cornerstone Engineering, Inc. will maintain and provide good communications with the city staff and the design team. We will dialogue with and make recommendations to the City as needed to move the project along and assist city staff in the project decisions.
2. We will provide regular written progress reports to the City summarizing technical issues, design effort and work status relative to the project schedule.
3. Cornerstone will advise the design team regarding use of existing treatment plant systems. We will maximize compatibility and facilitate integration of new facilities into the existing treatment plant and operations.
4. We will keep the City Wastewater Manager informed of the ongoing design effort and solicit his input on a regular basis.

208 Oak Street  
Bakersfield, CA 93304  
Tel. 661.325.9474 - Fax 661.322.0129

620 Mission Avenue  
Oceanside, CA 92054-2832  
Tel. 760.722.3495 - Fax 760.722.3490

[www.cornerstoneeng.com](http://www.cornerstoneeng.com)

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Road And  
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Site  
Development,  
Planning  
And  
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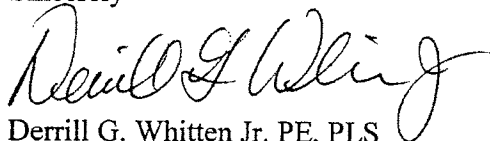
Transportation  
Planning

5. We will participate in the process evaluation and selection. Prepare written recommendations to the City regarding specific treatment process selection and criteria.
6. Cornerstone Engineering, Inc. will review and provide written comments on design deliverables provided under the Black & Veatch contract, with particular attention to permit requirements and future water recycling opportunities.
7. We will participate in a value engineering team to conduct a peer review of the selected design approach, including selection of value engineering ideas for implementation.
8. We will coordinate with City Planning or another consultant, the preparation of a CEQA document for the upgrade project.
9. Cornerstone will coordinate with City staff and the design engineering firms, to prepare, submit and process all necessary application documents needed for the funding of the proposed project.

The estimated project management fee is \$150,000. This estimate is based upon the assumption that Derrill Whitten and/or support staff will be spending approximately 10 hours each week on the project for the duration of two years. All services will be billed in accordance with the attached schedule of rates.

Thank you for the opportunity to serve the City of Paso Robles with these services. I would truly appreciate the work and look forward to assisting you throughout this project.

Sincerely



Derrill G. Whitten Jr. PE, PLS  
Cornerstone Engineering, Inc.

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# CORNERSTONE ENGINEERING

CONSULTING CIVIL ENGINEERS & LAND SURVEYORS

## Hourly Rate Schedule City of Paso Robles

Employee Type		Rate
Civil Engineering	Company Principal	\$145.00
	Managing Engineer/Branch Manager	\$140.00
Surveying Services	Engineer I	\$90.00
	Engineer II	\$105.00
Sewer & Water Engineering	Engineer III	\$130.00
	Engineer IV	\$135.00
Storm Water Engineering	Traffic Engineer	\$135.00
	Project Manager	\$115.00
Storm Water Quality SWPPP	Project Coordinator I	\$80.00
	Project Coordinator II	\$90.00
	Project Coordinator III	\$100.00
Road And Street Engineering	Engineering Technician I	\$80.00
	Engineering Technician II	\$85.00
	Engineering Technician III	\$90.00
School Site Engineering	Technical Support I	\$40.00
	Technical Support II	\$50.00
	Technical Support III	\$60.00
Site Development, Planning And Surveying	One-man Survey Crew*	\$135.00
	Two-man Survey Crew*	\$170.00
	Three-man Survey Crew*	\$200.00
Construction Staking Services	Travel, One-man Crew	\$115.00
	Travel, Two-man Crew	\$140.00
	Travel, Three-man Crew	\$165.00
Redevelopment Area Enhancement Engineering	Subsistence, One-man Crew	\$140.00
	Subsistence, Two-man Crew	\$160.00
	Subsistence, Three-man Crew	\$300.00
Traffic Engineering	Surveyor - Office/Research	\$90.00
	Survey Technician	\$75.00
	Chief of Parties	\$110.00
	*4-hour minimum	
	Administrative Support	\$55.00
	Engineer/Surveyor - Expert Witness	\$300.00
	Notary Services	\$10.00 / Each

The above is for straight time only and in the case of overtime, the rate charged will be 1 ½ times the hourly rates shown with Sundays and holidays at 3 times the hourly rates shown.

Reimbursable items (Blueprints, Mailings, etc.) are charged at cost times 1.1

Sub consultant fees are charged at cost times 1.2

Mileage is charged at \$.65 per mile

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Oceanside, CA 92054-6224  
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RESOLUTION NO. 08-

A RESOLUTION OF THE CITY COUNCIL OF THE CITY OF PASO ROBLES  
APPROPRIATING FUNDS AND AWARDED A CONTRACT  
TO CORNERSTONE ENGINEERING FOR PROFESSIONAL ENGINEERING  
PROJECT DESIGN SERVICES MANAGEMENT ASSOCIATED WITH THE  
DESIGN OF A WASTEWATER TREATMENT PLANT UPGRADE

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WHEREAS, the City of Paso Robles owns and operates a trickling filter wastewater treatment plant at 3200 Sulfur Springs Road (WWTP); and

WHEREAS, the City of Paso Robles has adopted goals and objectives in its Integrated Water Resources Plan (IWRP) which includes recycled water as a valuable and sustainable water resource for the future; and

WHEREAS, the proposed construction will result in significant treatment plant upgrades and changes in processes and equipment to meet the permit requirements and the goals and objectives of the IWRP; and

WHEREAS, the design process will require a professional engineering firm to provide project management to ensure its functionality and completion in a timely manner, and;

WHEREAS, because of their demonstrated depth of experience, understanding of the purpose of the project Cornerstone Engineering it would appear to be in the best interest of the City of Paso Robles and its wastewater users to retain the service of Cornerstone Engineering to provide Professional Engineering Project Management Services for the design of the WWTP upgrade facilities at a cost not to exceed \$150,000 through completion of the 100% design and project bid plus a contingency of \$20,000 for unforeseen conditions.

THEREFORE, BE IT RESOLVED AS FOLLOWS:

SECTION 1. The City Council of the City of Paso Robles does approve a one time supplemental budget appropriation from the Sewer Enterprise Fund in the amount of \$170,000 to budget account 601-910-5224-683; and

SECTION 2. The City Council does hereby award a contract to Cornerstone Engineering for Professional Engineering Project Management Design Services associated with the design of upgrades to the Paso Robles Wastewater Treatment Plant in the amount of \$150,000, and authorizes the City Manager to execute the contract.

PASSED AND ADOPTED by the City Council of the City of Paso Robles this 20th day of May 2008 by the following votes:

AYES:  
NOES:  
ABSTAIN:  
ABSENT:

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Frank R. Mecham, Mayor

ATTEST:

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Deborah D. Robinson, Deputy City Clerk