

TO: JAMES L. APP, CITY MANAGER
FROM: MEG WILLIAMSON, INTERIM PUBLIC WORKS DIRECTOR
SUBJECT: LIBRARY/CITY HALL SULFUR SPRING – ENVIRONMENTAL REVIEW
DATE: DECEMBER 7, 2004

Needs: For the City Council to consider amending an existing contract with Boyle Engineering to complete State and Federal environmental review of the sulfur spring.

- Facts:
1. On May 2004, City Council awarded a contract for \$118,270.00 to Boyle Engineering to assist the City in mitigating the flow of the geo-thermal spring at the Library/City Hall and to provide design drawings for the repair of the parking lot.
 2. The initial method of remediation recommended by Geological Solutions and FSB Energy included the installation of a vertical casing to capture the flow of the spring using artesian pressure.
 3. When it was determined that the vertical casing could not produce adequate flow to drain the spring, Boyle Engineering was asked to develop a horizontal drainage system to supplement or replace the vertical casing that would allow the flow from the spring to be captured and the parking lot repaired.
 4. On October 14, 2004, staff met with representatives of the State Office of Emergency Services (OES). The purpose of the meeting was to update OES as to the status of City's earthquake repair projects and to follow up on payments made and/or forthcoming from FEMA and OES for the those projects.
 5. Staff informed OES that the design for the horizontal drain system was approximately thirty (30) percent complete and would go to bid mid to late December.
 6. In view of the pending bid date, OES representatives raised questions regarding types and/or levels of environmental review that would be required by the State and FEMA prior to completing the design and securing bids.
 7. Examples of agencies that will be involved in the review process are, but not limited to:
 - Regional Water Quality Control Board
 - California Fish and Game
 - FEMA (who will oversee Federal Agency contacts)
 8. In order to complete the review process and secure any necessary permits in the shortest amount of time, staff requested Boyle Engineering provide a cost to complete the environmental review process, including the development of up to four disposal alternates for consideration by the agencies noted above.
 9. Boyle Engineering proposes to retain Padre associates to prepare a mitigated negative declaration to comply with CEQA and assist in environmental constraint analysis.
 10. The cost of the additional planning and design services is \$86,300.00.

Analysis
and

Conclusion: The City cannot complete the design for remediation of the sulfur spring and repair of the parking lot until it is determined where the flow from the spring is to be directed. At least four (4) options have been discussed with OES and FEMA.

1. Installing a re-injection well.
2. Installation of an onsite pump and force main, routing the pipe under the railway and Highway 101 to the river.
3. Installation of a 15" gravity drainage pipe routed to the river at 4th Street or 34th Street.
4. Treating the water onsite and discharging it into the City sewer system.

The environmental assessment would evaluate the options noted above and would result in a final recommendation that will comply with State regulatory requirements and FEMA regulations thereby allowing the City to complete the project and FEMA to fully fund the cost of the remediation.

Policy

Reference: None

Fiscal Impact: Amendment of the contract to Boyle Engineering for the necessary environmental review associated with the disposal of the flow from the sulfur spring would impact the General Fund in an amount of \$86,300.00. While staff has filed for a Project Worksheet with FEMA to cover the cost of mitigating the sulfur spring and repair of the parking lot, there is no guarantee as to when or if the cost will be reimbursed.

Options:

- a. Adopt Resolution 04-xx to amending the contract for Boyle Engineering in an amount of \$86,300.00.
- b. Amend, modify, or reject the above options.

Attachments:

1. Resolution amending the contract to Boyle Engineering
2. Boyle's amended scope of work proposal dated November 24, 2004

RESOLUTION NO. 04-

A RESOLUTION OF THE CITY COUNCIL OF THE CITY OF PASO ROBLES
AMENDING AN EXISTING CONTRACT WITH BOYLE ENGINEERING FOR DESIGN
SERVICES ASSOCIATED WITH THE REMEDIATION AND REPAIR OF THE SULFUR
SPRING AT 1000 SPRING STREET TO INCLUDE ENVIRONMENTAL REVIEW
CONSISTENT WITH STATE AND FEMA GUIDELINES

WHEREAS, the City Council of the City of El Paso de Robles did enter into a contract for \$118,270.00 with Boyle Engineering for design services necessary to mitigate the sulfur spring and repair the parking lot located at the Library/City Hall; and

WHEREAS, it has been determined that additional environmental review and disposal alternates will be required in order to determine a satisfactory means of disposing of the natural flow from the sulfur spring; and

WHEREAS, the City Council has determined it to be in the best interest of the City to complete the work necessary to mitigate the spring to allow repair of the parking lot.

THEREFORE BE IT RESOLVED by the City Council of the City of El Paso de Robles, that the City Manager for the City of Paso Robles is hereby authorized to enter into an amended contract with Boyle Engineering in an amount of \$86,300.00, for services associated with the environmental review and disposal alternates required for the remediation of the spring and repair of the parking lot at the Library/City Hall, as outlined in an amended proposal letter from Boyle Engineering, dated November 24, 2004.

PASSED AND ADOPTED by the City Council of the City of Paso Robles this 7th day of December 2004 by the following vote:

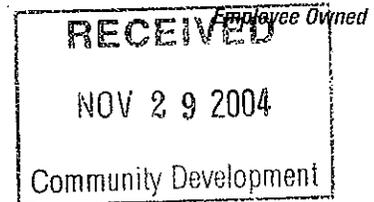
AYES:
NOES:
ABSTAIN:
ABSENT:

Frank R. Mecham, Mayor

ATTEST:

Sharilyn M. Ryan, Deputy City Clerk

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San Luis Obispo, CA 93401
TEL: (805)542-9840
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Doug Monn
Building Official
CITY OF PASO ROBLES
1000 Spring Street
Paso Robles CA 93446

November 24, 2004
BK-P53-300-04

Engineering Services for City Hall Parking Lot Repair
Authorization to Perform Additional Services – Budget Revision No. 2
Phase 2 (Flow Mitigation and Disposal) – Engineering and Environmental Services

On December 22, 2003, the San Simeon earthquake caused an artesian spring to emerge in the City Hall parking facility at 10th and Spring Streets. City staff and contractors excavated the surrounding area in an attempt to find the source of the spring. They then installed a temporary pump and piping from the City parking lot to a Caltrans culvert beneath Highway 101. The pump and piping allowed the City to drain the sulfur water and prevent further damage to the parking area and City Hall until a permanent solution was developed.

Next, Boyle worked with City staff to develop a phased approach for flow control and disposal. Phasing this work would allow the City to repair the parking area and return it to service prior to designing a transmission, treatment, or disposal system. The following paragraphs describe the approach as originally conceived:

Phase 1 – City Parking Area Remediation and Repair: This phase included an alternatives evaluation and engineering services for restoring the parking area and controlling the flow of water. It also included construction observation during the installation of a vertical pipe by the City's contractor, Associated Pacific Contractors, and construction management consultant, FSB Energy. As intended by the City and FSB Energy, the pipe would operate similar to a well screen and casing, providing a conduit for collecting the water but filtering out the sand. If field tests indicated this approach would not be effective, Boyle would provide a detailed design for a collection system.

Phase 2 – Flow Mitigation and Disposal: During the subsequent phase, recommendations for construction of permanent treatment and/or distribution facilities for managing the spring flow would be developed and implemented. This phase would include permitting, treatment process development, and other analyses required for developing a permanent solution that is palatable to the City, citizens, and regulatory agencies.

Boyle proceeded with Phase 1 as authorized by the City. During field testing, it was determined that the vertical pipe installation would not be an effective long-term solution. As a result, the City requested that Boyle provide the preliminary design and geotechnical investigation for a flow collection system. A budget revision request was prepared to include surveying (originally intended to be provided by the City)

and a soils report since the vertical pipe installation was not feasible and a new design must be developed. Fugro West, the Project Geotechnical Engineer, provided the geotechnical report including recommendations for a horizontal collector system with engineered backfill for filling and repairing the parking area. Wallace Group provided a base map and installed benchmarks outside the parking area for checking settlement after the parking area is repaired.

Boyle also presented the following options for transferring the flow from the horizontal collection system to the City drainage system:

- Onsite pump station discharging to the existing 6" drainage pipe;
- Onsite pump station with a new force main; and
- Large-diameter (15") drainage pipe without a pump station.

City staff indicated the large diameter drainage pipe was the preferred option, although capital costs would be higher. They indicated the project could be incorporated into a storm sewer system that would collect the spring water and would also collect runoff from the parking area and surrounding streets, addressing other unrelated drainage problems. The Project Team agreed to meet after the City had investigated the possibilities of a multiple-purpose storm drainage system.

On October 20, Boyle and City staff met to discuss the City's findings. City staff had determined that all phases of the parking lot repair and flow disposal project must be designed and permitted as one complete project. FEMA would serve as lead agency for NEPA and the City would serve as lead agency for CEQA.

In response to the City's request, Boyle prepared this request to address the new direction for the project. Boyle will develop alternatives, perform preliminary design, and provide permitting guidance for a project that meets the goals of both phases 1 and 2.

Scope of Work Revision

This letter requests authorization for Boyle Engineering Corporation ("Boyle") to perform the following services (the "Additional Services") which are outside of our present scope of work for the Project:

Task 100 – Alternatives Analysis

Boyle, Padre, and Fugro will perform the following services:

- Attend a workshop with City staff to discuss flow disposal alternatives and potential permitting issues;

Prepare an evaluation of alternatives for treating, transferring, and disposing of the spring flow. This evaluation will be prepared in report format and will address permitting issues, "fatal flaws," required facilities and equipment, and capital and operating costs. Schematic layouts of alternatives will be prepared on 11" x 17" sheets. It is assumed four alternatives will be developed. These alternatives would include drainage to the Salinas River via a new storm

drainage pipe, drainage to the River via a pump station and force main, disposal through injection, and discharge to the City sewer system.

Fugro West will provide a constraints analysis of subsurface injection. Their analysis will be limited to an evaluation of available data and will not involve field work. Fugro will contact RWQCB and Division of Oil and Gas staff to discuss anticipated permit requirements. They will also evaluate the impacts of injection on the receiving aquifers. Boyle and Fugro will develop cost estimates and facility requirements for an injection well.

Schematic layouts of each alternative will be prepared using the surveyed base map of the parking area, available record drawings, and aerial photography along the selected pipeline routes. Treatment facilities will be identified based on anticipated water quality requirements, per consultation with agencies and typical discharge standards. It is assumed the City will provide available water quality information, aerial photography, and flow records.

- Submit a report summarizing the analysis and recommendations (three (3) bound copies in draft form) to the City;
- Contact permitting agencies and discuss project requirements and conditions;
- Attend a meeting with OES and/or FEMA to discuss the analysis; and
- Develop the final report (six (6) bound copies and one camera-ready original) for submittal to OES and/or FEMA and the City.

Task 200 – Flow Disposal: Environmental and Permitting Assistance

Boyle and Padre will perform the following permitting and environmental services for the combined project:

- Prepare a mitigated negative declaration to comply with CEQA. It is assumed FEMA will address any and all NEPA requirements;
- Prepare permit applications; and
- Review proposed permit conditions.

The budget revision request for these items includes Boyle, Fugro West, and Padre Associates. We will begin immediately assuming that we have received an executed copy of this letter authorizing us to proceed.

This will also confirm that Boyle will be paid for the Additional Services in accordance with the approved fee schedule unless otherwise agreed in a written amendment to the Agreement. Our estimated budget includes Padre's, Fugro's, and Boyle's services as detailed in the attached table. The total project budget would be amended by \$86,290.

Schedule

It is assumed Boyle will finish the draft report within 60 days of Notice to Proceed. The final report will be completed within two (2) weeks of receiving comments from the City.

The schedule for completing the MND will be discussed during the kickoff workshop.

Design and Construction Phase Services

Upon identifying the appropriate disposal method for the spring water and beginning the permitting process, Boyle will identify the additional services required to develop bid documents for the combined Phase 1 and Phase 2 project. Boyle is already under contract to design the Phase 1 facilities but we cannot identify the budget and scope for designing the complete project until we have selected the recommended disposal method. Since the combined project will likely include a pipeline or additional facilities outside the City parking area, it is assumed that additional geotechnical or survey services may be required as well as engineering services.

We hope this budget revision request meets your approval. Please sign and return to me the enclosed copy of this letter indicating your concurrence, thereby enabling us to provide these services. Thank you.

Boyle Engineering Corporation

Accepted:



Michael K. Nunley, PE
Project Manager

By: _____

Title: _____

Attachments: Itemized Budget for Authorization Request #2

Cc: Meg Williamson
Ben Horn
Ernie Kartinen
Jon Hanlon
Kris Vardas (Padre Associates)
Paul Sorensen (Fugro West)

Project Budget

City of El Paso de Robles

Task Description	Personnel Hours						Budget					Total							
	Consultant	Principal	Senior	Assistant	Drafter	Clerical	Total Hours	Labor	Fugro West, Inc.	Padre Associates, Inc.	Non-labor Cost		Total Non-Labor						
Task 100 - Flow Disposal Alternatives Analysis																			
Constraints analysis			1				1	\$	128		\$	935	\$	13	\$	948	\$	1,076	
Kickoff workshop with City staff	8		8	8			24	\$	3,160		\$	839	\$	316	\$	1,155	\$	4,315	
Initial consultation with agencies								\$	-		\$	979	\$	-	\$	979	\$	979	
Develop alternatives and schematic drawings (assume four (4) alternatives)	16		8	24	16	4	68	\$	7,760		\$	-	\$	776	\$	776	\$	8,536	
Alternatives matrix	8		8	24			40	\$	4,632		\$	5,007	\$	463	\$	5,470	\$	10,102	
Subsurface injection - constraints analysis								\$	-	\$	22,000		\$		\$	22,000	\$	22,000	
Developed preferred alternative and project description	4		4	8			16	\$	1,948		\$	4,307	\$	195	\$	4,502	\$	6,450	
Identify permit requirements			1	2			3	\$	312		\$	2,613	\$	31	\$	2,644	\$	2,956	
Draft letter report and QC	4	12	4	12			32	\$	4,216		\$	-	\$	424	\$	424	\$	4,660	
Meeting with City and OES to present analysis	8		4	4			20	\$	2,488		\$	704	\$	249	\$	953	\$	3,441	
Response to comments			2	4			6	\$	624		\$	1,183	\$	62	\$	1,245	\$	1,869	
Subtotal	48	12	40	86	16	8	210	\$	25,288	\$	22,000	\$	16,567	\$	2,529	\$	41,096	\$	66,384
Task 200 - Environmental and Permitting Assistance																			
MND			2	4			6	\$	624		\$	5,200	\$	62	\$	5,262	\$	5,886	
Public hearing			4	4			8	\$	880		\$	900	\$	88	\$	988	\$	1,868	
Permit applications			2	4			6	\$	624		\$	2,640	\$	62	\$	2,702	\$	3,326	
Application submittal								\$	-		\$	3,270	\$	-	\$	3,270	\$	3,270	
Permit conditions			4	4			8	\$	880		\$	4,587	\$	88	\$	4,675	\$	5,555	
Subtotal	-	-	12	16	-	-	28	\$	3,008	\$	-	\$	16,597	\$	301	\$	16,898	\$	19,906
Total	48	12	52	102	16	8	238	\$	28,296	\$	22,000	\$	33,164	\$	2,830	\$	57,994	\$	86,290

Amounts shown are fee.

Personnel Category	\$/HR
Consultant	\$175.00
Principal	\$160.00
Senior	\$128.00
Assistant	\$92.00
Drafter	\$95.00
Clerical	\$52.00