



STAFF REPORT

CITY COUNCIL OF THE CITY OF SAUSALITO

AGENDA TITLE:

Amendment No. 5 to Consultant Services Agreement with West Yost Associates for Additional Design Services for Priority 1 Sewer Repair Projects

RECOMMENDED ACTION:

Adopt a Resolution of the City of Sausalito Accepting Changes to the Design Basis for the Sausalito Priority 1A (Gate 5 Road), 1B (Spinnaker/Anchor) and 1C (Prospect) Sewer Rehabilitation Projects, Approving Amendment No. 5 to the Professional Services Agreement with West Yost Associates for Completion of Bid Documents for Said Projects as well as for Stationary Standby Power for the Whiskey Springs/Scotty's Pump Station Complex, and Authorizing the City Manager to Execute Said Amendment on Behalf of the City

SUMMARY

In June, 2008 the City Council first awarded a professional services contract to West Yost Associates for engineering services associated with sewer and storm drain projects. Since that date, West Yost presented a prioritized project list for sewer projects and preliminary cost estimates to Council in January 2009 (see copy attached), prepared detailed designs for three priority projects, prepared a conceptual storm drain study for the Gate 5 Road area used to support a federal stimulus project application, and similarly prepared detailed designs and (with other consultants and Staff) other supporting documentation for federal stimulus and then State Revolving Loan Fund applications for priority sewer rehabilitation projects under contract amendments as tabulated below:

Contract Scope	Amount	Date Authorized
Original Agreement (Sewer Assessment/Scoping)	\$27,728	6/10/2008
1 st Amendment (Priority 1 Project Design)	\$173,706	1/27/2009
2 nd Amendment (Concept Storm Drain Study)	\$30,000	1/27/2009
3 rd Amendment (Sewer Assessment Conversion)	\$19,050	2/24/2009
4 th Amendment (Additions to Projects and SRF Application Support)	\$64,858	7/21/2009
Total to date	\$315,342	

The Priority 1B Sewer Rehabilitation Project for Spinnaker Point and Anchor Lift Station is currently advertised for bids. Due to the length of time the State requires to review the

application for State Revolving Fund Loans, the bid opening has been postponed until Friday, October 8, 2010 in order that the City may have a funding commitment before awarding a construction contract of the anticipated magnitude (approximately \$860,000). Staff's original intent was to wait to request authorization for additional design services until construction was underway on Project 1B. However; given the demonstrated need to complete the design of another priority project at Gate 5 Road, to account for additional services requested by Staff when West Yost responded to comments on the design of Project 1B and 1C (Prospect) and provide for West Yost's timely compensation for those services, and to develop bid documents to provide for adequate stationary standby power for the Whiskey Springs and Scotty's lift stations and eliminate rental charges for the standby generator currently in use there as well as complete the design and construction of the critical Toyon-Woodward sewer segment, Staff respectfully requests that Council approve Amendment No. 5 to the subject Professional Services Agreement for the services described on the proposal dated July 9, 2010 and additional compensation of \$232,912 making the total not-to-exceed contract amount \$548,254.

BACKGROUND

Changes to Design Basis

Project 1A Gate 5 Road Area

West Yost prepared a basis of design for the Gate 5 Road sewer rehabilitation project, which recommended cut and cover installation methods to replace aging pipes and, at the same time, to eliminate sags in the existing alignment. Since that time, new project drivers have changed the project approach. These drivers include:

- a. Potential future subsidence in the Gate 5 Road area. The City conducted a subsidence investigation (Towill, Inc.) for the shoreline area. The subsidence investigation indicates that in some locations, the Gate 5 Road area has settled more than three feet since 1968. West Yost's geotechnical engineering subconsultant has noted that the area could settle another three to four feet in the following 50 years. In order to address anticipated future subsidence, the City has requested that the replacement sewer be designed to convey flow under pressure.
- b. Potential underground conditions. The Gate 5 Road area served as a shipyard prior to its current development. There is a high likelihood that remnants from the shipyard activities still remain in the area, and could become problematic if the area is disturbed for future construction. Pipeline replacement by conventional cut and cover methods introduces risk of disturbing these materials. These risks could be controlled through the use of trenchless technologies. However, a portion of the sewer is comprised of asbestos cement pipe (ACP). Due to issues associated with pipe bursting of ACP, this method, although "trenchless," is also not desired by the City. Therefore, the project required an alternative design basis.

The selected replacement project will install a new low-pressure sewer within the existing pipe, and individual grinder pumps at each service connection. This scope of services includes defining design requirements for the new project configuration, and adding electrical

engineering services by West Yost's subconsultant A T.E.E.M. to provide power controls and monitoring of the low pressure sewer system. Because the original scope of services anticipated that the gravity pipeline would be replaced in kind. Installation of a low pressure sewer to replace the existing pipe requires, in addition to the originally scoped pipeline plan and profile design drawings, additional mechanical details and electrical and instrumentation design. The additional work includes verification of flow requirements for each grinder pump; addition of a grease interceptor from the restaurant on the north side of Gate 5 Road midway between Coloma Street and Harbor Drive that is required due to the conversion to a pumped system; and electrical engineering and controls services by West Yost's subconsultant, A T.E.E.M. Further, as described in the City's Sewer Spill Reduction Action Plan – Volume II, design documents for a new flow meter and a bypass pump connection to the existing Gate 5 Road Pump Station are needed. It is anticipated that the flow meter will be a magnetic flow meter, and the pump station bypass will use a cam-lock fitting with isolation valve that is installed on the downstream side of the existing pump station isolation valves. The flow meter and bypass connection will be housed in a precast concrete box with an H-20 traffic-rated lid and access hatch. The additional work includes electrical engineering and controls design.

Project 1B Spinnaker/Anchor

The following items were requested by the City and completed by West Yost outside of the original scope of services for the Spinnaker/Anchor Pump Station (Project 1B):

- a. Revision of Anchor Pump Station top slab for vehicle surface loadings. The pump station top slab design accommodated foot traffic, to match the existing facility. The City requested that this design be altered to accommodate a vehicle traffic rating. West Yost revised the design of the slab thickness, rebar and reinforcing detailing.
- b. Design of package lift station. In order to correct the negative grade of the existing sewer without replacing and re-laying the pipeline, a package lift station was required to receive flow from the Spinnaker restaurant and the Sausalito Yacht Harbor pump out stations. West Yost has completed the design of this package lift station.
- c. Restaurant piping verification. The original scope assumed that new piping from the Spinnaker restaurant to the new grease interceptor would be developed based on as-built drawings available from the City. Because records were not available, West Yost researched microfiche images of the architectural drawings and supplemented this knowledge with field observations of the plumbing under the restaurant.
- d. Electrical panel consultation. City requested that West Yost research options available from electrical panel manufacturers for a decorative coating system. West Yost contacted four panel manufacturers and prepared a technical memorandum of the findings.
- e. Bid period services. Bid period services were not included in the original scope of services. West Yost attended one pre-bid conference and project walk-through conducted by the City, and will respond to technical questions during the bid period, assist the City in preparing addenda as necessary, assist the City in evaluation of bids, and prepare conformed contract documents incorporating any addenda issued by the City.
- f. Design services during construction for Project 1B. Services during construction were not included in the original scope of services. West Yost will attend a preconstruction

conference conducted by the City, review up to 20 submittals and review up to 20 requests for information. West Yost will prepare record drawings from contractor and inspector mark ups. Construction inspection, construction management and start up services will be conducted by the City.

Design Work

Whiskey Springs Pump Station (WSPS) and Scotty's Pump Station (SPS) Stationary Standby Electrical Generation

Review existing WSPS and SPS plans and conduct one site visit to each pump station to review the physical and electrical station configurations. This purpose of this review will be to identify and document any upgrades to the pump stations that are required to provide a permanent, reliable, backup power generation system at each pump station. West Yost will prepare a letter report that describes findings and recommendations, and will complete bid documents suitable for construction.

Project 1C (Prospect) Contractor Selection Assistance

At the City's request, West Yost assisted the City with selection of a contractor for the Project 1C contract by distributing documents for quotation to four contractors, and meeting with two potential contractors at City facilities.

Toyon to Woodward Avenue Pipeline Rehabilitation Final Design

The existing pipeline in a steep, wooded easement between Toyon and Woodward Avenues has reached the end of its design life and requires replacement. This line segment experienced repetitive overflows in summer 2008 ultimately resulting in the City being fined by the Regional Water Quality Control Board. In its prior work on this segment, West Yost completed a field assessment of the pipeline to determine the most feasible method of replacement. Due to limitations in construction access, the recommended replacement method is pipe bursting. During the proposed next phase of work, West Yost will, through its subconsultants, conduct one geotechnical boring to confirm that ground conditions are suitable for bursting, and complete a survey of the alignment to develop a base map for design. West Yost will develop biddable plans and specifications for the pipeline replacement project, provide assistance through the bid period, and provide engineering services during the construction phase.

IMPACT

The contemplated design services will not have environmental impacts. All of the facilities contemplated involve the replacement or rehabilitation of existing facilities with no change in capacity or use and are therefore consistent with the General Plan and considered exempt from the California Environmental Quality Act.

FISCAL IMPACT

The work under the proposed amendment in the amount of \$232,912 is proposed to be funded from the Sewer Capital Project Fund which has \$997,246 available and unencumbered

as of July 1, 2010. With the exception of the Beach Sewer project, no other significant sewer capital design projects are anticipated in FY11 at this time. West Yost's total authorized compensation of \$548,254 for design work and services during construction is equal to approximately 20% of the estimated cost for construction of the projects they have designed that are programmed for FY10 and FY11. This proportion is consistent with the level of complexity that these projects involve.

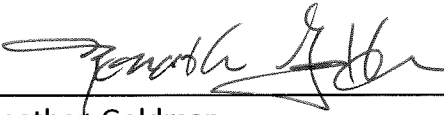
STAFF RECOMMENDATIONS

Adopt a Resolution of the City of Sausalito Accepting Changes to the Design Basis for the Sausalito Priority 1A (Gate 5 Road),1B (Spinnaker/Anchor) and 1C (Prospect) Sewer Rehabilitation Projects, Approving Amendment No. 5 to the Professional Services Agreement with West Yost Associates for Completion of Bid Documents for Said Projects as well as for Stationary Standby Power for the Whiskey Springs/Scotty's Pump Station Complex, and Authorizing the City Manager to Execute Said Amendment on Behalf of the City.

ATTACHMENTS

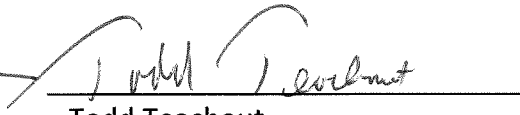
1. Copy of January 2009 PowerPoint presentation
2. A Resolution of the City of Sausalito Accepting Changes to the Design Basis for the Sausalito Priority 1A (Gate 5 Road),1B (Spinnaker/Anchor) and 1C (Prospect) Sewer Rehabilitation Projects, Approving Amendment No. 5 to the Professional Services Agreement with West Yost Associates for Completion of Bid Documents for Said Projects as well as for Stationary Standby Power for the Whiskey Springs/Scotty's Pump Station Complex, and Authorizing the City Manager to Execute Said Amendment on Behalf of the City

PREPARED BY:



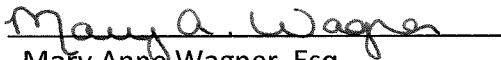
Jonathon Goldman
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City Engineer

REVIEWED BY:



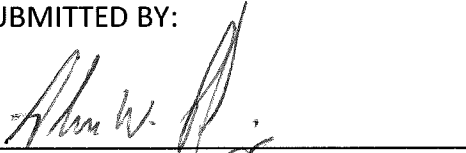
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