

**Schaaf & Wheeler**  
CONSULTING CIVIL ENGINEERS

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October 24, 2018

Mrs. Tina S. Tseng, P.E.  
Senior Civil Engineer  
City of Mountain View, PWD  
500 Castro Street, 1<sup>st</sup> Floor  
Mountain View, CA 94041

**Subject: Project 17-48 Sewer Pump Station, Additional Improvements Design Proposal**

Dear Tina:

Schaaf & Wheeler is providing a professional design services proposal for additional improvements, not originally scoped for the Immediate Repairs Project at the City's Shoreline Sewer Pump Station, as requested by the City. During the course of our design development, the station has experienced deficiencies with the pump discharge piping. In addition to addressing the piping deficiencies, the City prefers to replace the inlet slidegate due to its criticality during station shutdowns. The scope of additional improvements at the station include:

- Replacement of buried steel discharge pipes
- Demolition of concrete flume structure
- Replacement of steel discharge pipe spools within pump room
- Replacement of steel wall spools and associated pump station concrete wall demolition and repair
- Replacement of inlet slidegate and hydraulic control unit and actuator

The additional scope tasks include design development of the additional pump station improvements, bid support services, and construction support services. The design development will include civil engineering, structural engineering, geotechnical engineering, and electrical engineering. A detailed scope of services is provided below.

**Scope of Services**

**Task 1 – Detailed Design (90%, 100% PS&E, and Bid Documents)**

- Conduct geotechnical field investigation (one soil boring) and prepare geotechnical investigation report
- Design station improvements and prepare plans, specifications, and engineer's cost estimates
- Prepare structural design of temporary support system for deep excavation
- Attend design review meetings (total of two) to discuss City review comments
- Prepare bid documents for City administered public bidding

Task 2 – Bid Support Services

- Attend pre-bid meeting
- Prepare design clarifications and addenda
- Review contractor bids

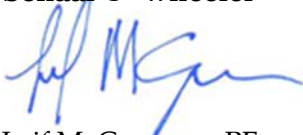
Task 3 – Construction Support Services

- Attend pre-construction meeting
- Respond to contractor requests for information
- Review and respond to contractor submittals
- Prepare Record Drawings

Based on the above scope, we propose to provide engineering services on a time and materials basis as detailed in the attached fee estimate, with a total not to exceed \$115,430. S&W will invoice services on a monthly basis.

Schaaf & Wheeler looks forward to working with the City of Mountain View on this important project. Please feel free to call me at (408) 246-4848 should you have any questions or require any additional information.

Sincerely,  
**Schaaf & Wheeler**



Leif M. Coponen, PE  
Vice President

<b>City of Mountain View</b>  <b>Additional Engineering Services for</b> <b>Shoreline Sewer Pump Station Rehabilitation</b> <b>Schaaf &amp; Wheeler</b> <b>Fee Proposal - October 24, 2018</b>		<i>Project Manager</i>	<i>Senior Engineer</i>	<i>Assistant Engineer</i>	<i>Designer (drafting)</i>	<i>Schaaf &amp; Wheeler Subtotal</i>	<i>Biggs Cardosa Associates Structural Engineering Subconsultant</i>	<i>MTH Engineers Electrical Engineering Subconsultant</i>	<i>Cornerstone Earth Group Geotechnical Engineering Subconsultant</i>	<i>Subconsultant Markup (0%)</i>	<i>Total</i>
	Hourly Rate	\$225	\$200	\$160	\$140						
<b>Task 1</b>	<b>Detailed Design</b>	<b>28</b>	<b>48</b>	<b>40</b>	<b>36</b>	<b>\$ 27,340</b>	<b>\$ 24,080</b>	<b>\$ 17,000</b>	<b>\$ 18,700</b>	<b>\$ -</b>	<b>\$ 87,120</b>
A	90% Design Submittal (PS&E)	8	16	24	16	\$ 11,080	\$ 14,515	\$ 8,000	\$ 17,020	\$ -	\$ 50,615
	Meet with City for 90% Design Review	2	4			\$ 1,250				\$ -	\$ 1,250
B	100% Design Submittal (PS&E)	8	12	16	12	\$ 8,440	\$ 6,675	\$ 7,000	\$ 1,680	\$ -	\$ 23,795
	Meet with City for 100% Design Review	2	4			\$ 1,250				\$ -	\$ 1,250
C	Final Bid Documents Submittal	8	12		8	\$ 5,320	\$ 2,890	\$ 2,000		\$ -	\$ 10,210
<b>Task 2</b>	<b>Bid Support</b>	<b>6</b>	<b>0</b>	<b>16</b>	<b>0</b>	<b>\$ 3,910</b>	<b>\$ 1,960</b>	<b>\$ 500</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 6,370</b>
A	Attend Pre-Bid Meeting	2				\$ 450				\$ -	\$ 450
B	Respond to Bidders' RFC	2		8		\$ 1,730	\$ 1,960	\$ 500		\$ -	\$ 4,190
C	Prepare Addenda	2		8		\$ 1,730				\$ -	\$ 1,730
<b>Task 3</b>	<b>Construction Support</b>	<b>10</b>	<b>16</b>	<b>24</b>	<b>12</b>	<b>\$ 10,970</b>	<b>\$ 3,470</b>	<b>\$ 7,500</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 21,940</b>
A	Attend Pre-Construction Meeting	2				\$ 450				\$ -	\$ 450
B	Review Contractor Submittals	2	8	16		\$ 4,610	\$ 1,735	\$ 4,500		\$ -	\$ 10,845
C	Respond to RFIs	2	4	8		\$ 2,530	\$ 1,735	\$ 2,000		\$ -	\$ 6,265
D	Punchlist / Record Drawings	4	4		12	\$ 3,380		\$ 1,000		\$ -	\$ 4,380
	<b>TOTAL FEE</b>	<b>44</b>	<b>64</b>	<b>80</b>	<b>48</b>	<b>\$ 42,220</b>	<b>\$ 29,510</b>	<b>\$ 25,000</b>	<b>\$ 18,700</b>	<b>\$ -</b>	<b>\$ 115,430</b>