

December 11, 2015

Gilbert Gamboa, PE
Senior Civil Engineer
City of Manhattan Beach
Public Works Department
1400 Highland Avenue
Manhattan Beach, California 90266

Subject: Cost Proposal for the 2011-2012 Sewer Rehabilitation Project

Dear Mr. Gamboa,

Thank you for considering Psomas to provide construction management and inspection services to the City of Manhattan Beach for the 2011-2012 Sewer Rehabilitation Project. As discussed with you and Mr. Michael Guerrero, our staffing approach proposes that we service the City's Rosecrans Avenue Widening Project with the same team members offered for this project.

We propose to staff this assignment with Chris McNary as our Construction Manager/Inspector, while Brian Culligan, CCM, PMP, LEED AP will provide additional construction management support and will serve as Chris' backup. Chris recently served in this same role for the City of Hermosa Beach's 2007-2008 Sewer Rehabilitation Project as outlined in his attached résumé. I will be the team's Principal In Charge and will be your point of contact during the proposal review process. I can be reached at 714.751.7373, or by email at rtolentino@psomas.com.

Our proposed fee schedule is attached. We have detailed our costs by project position and hourly rates.

Sincerely,
PSOMAS



Reuben Tolentino, CCM, DBIA, ENV SP
Principal and Vice President
Construction Management Group

3 Hutton Centre Drive
Suite 200
Santa Ana, CA 92707-8794

Tel 714.751.7373
Fax 714.545.8883
www.Psomas.com

Executive Summary

Construction Scope of Services from RFP

The 2011-2012 Sewer Main Rehabilitation Project, PHASE 2 consists of sewer mainline replacements at four (4) project street locations in the south sand section of the City. New sewer mains (minimum 8" VCP) and manholes will be constructed in parallel alignment to existing infrastructure, and sewer laterals extended and/or reconnected accordingly. The sewer mains will be relocated from the sidewalk or encroachment areas to the vehicular or walk street areas and existing mains abandoned in place. Private improvements in the encroachment areas will be restored in kind (if necessary), and the entire walk street (7th Street) width will be reconstructed. The reconstruction of the walk street involved in this project includes traditional concrete pavement restoration along with the implementation of a pervious pavers design to address nuisance water runoff from the adjacent encroachment areas.



Staffing Approach and Methodology

Reuben Tolentino, CCM, DBIA, LEED AP, will oversee the Psomas team as Principal-In-Charge. He will help to ensure that all of the Psomas team resources are available throughout the duration of the assignments and will have overall responsibility of the construction management and inspection contract.

Chris McNary is our proposed Construction Manager/Inspector with overall responsibility for coordinating pre-construction, construction, and post-construction activities to ensure the project's goals are achieved on-time and within budget constraints. He will be supported by our Construction Manager **Brian Culligan, CCM, PMP, LEED AP**, and will promote communication between team members by implementing a system to encourage collaboration on project tasks. Chris and Brian will update the City on the project's status, and provide information to the City, Contractor, utility agencies, and any other interested or involved agents as required. Chris will provide and document daily field inspections, review plans and specifications on a continual basis; coordinate testing schedules with the Contractor, and attend/conduct project meetings.

Because of Psomas' propensity to identify any potential issues prior to the start of construction and to gain a better understanding of the project, the team has reviewed the Request for Proposal, provided Department of Public Works- City of Manhattan Beach drawings, and current site conditions. The following are some project specific issues our team has identified which could be crucial to the project's successful completion in 140 working days.

Maintaining Safety

Safety on a project can never be emphasized enough. Every project has its safety concerns, but projects such as this present the need for unique safety components.

- Coordination with residents during excavation and installation of new piping along 7th Street, Ingleside Drive, 3rd Street, and 4th Street will require significant planning prior to implementation. Of great importance will be public impact during construction which must be limited. The contractor will be required to export material, meaning large trucks will be entering the public thoroughfare that may require the use of flag men.

-
- Special care must be taken during the installation of all pipelines. As indicated in the RFP and as shown in the drawings, excavations will require shoring. CalOSHA safety standards for open trench work, depth of excavations, shoring, and job site safety will be strictly enforced. Work and safety plans must be carefully reviewed so that no impacts to the public and community are experienced.



- Existing utilities must be located and identified prior to and during excavations. Contractor will be required to contact USA and Dig Alert prior to any digging which should prevent any issues.

Psomas takes safety very seriously and considers the project’s location to be sensitive to the needs of the public and community. We will review the Contractor’s schedule throughout the contract to verify that the Contractor has not “overcrowded” activities, possibly creating an unsafe working environment and impacting the public in the process. At times of congestion, Psomas will pre-plan inspection techniques with the Contractor and City Staff to provide timely inspection services without slowing down the Contractor’s operations. Psomas’ inspectors will attend the Contractors’ daily tailgate safety meetings, using this time as a platform to discuss any safety issues that have or could occur. Maintaining safety will be our highest priority at all times. In addition, our Construction Manager will discuss any safety concerns and upcoming work that may require special safety related training or preparation at each weekly meeting.

Schedule, Sequencing and Constraints

Next to project safety, keeping the project on schedule will be the most critical challenge on this project; on-time completion is essential. With a relatively short duration for the amount of work to be accomplished, attention

to the Contractor's CPM schedule will be critical and must be maintained throughout the projects.

Because of the critical nature of the schedule, the Psomas Team will provide virtually continuous schedule analysis beginning with the baseline schedule, followed by daily discussions with the Project Superintendents, weekly review of the Contractor's two-week look ahead at the weekly progress meeting, and our review of the monthly updated schedule that must be submitted with each monthly payment request.

This project's timeline will be made or lost on the timely submittal and approval of shop drawings. The Psomas Team is being led by a team who has extensive experience in reviewing and approving shop drawings for various public works projects including roadway improvement and sewer projects. Psomas' review and pre-screening of Contractors' shop drawings, prior to being submitted to the Engineer of Record, has resulted in on-time approvals.

The use of the Psomas' online data tracking system (CMDTS) is a highly effective tool in keeping track of all internal correspondence dealing with each shop drawing, RFI, PCO and CCO. The use of this electronic tracking system is highly effective in Project Management and Document Control. Between using a proactive approach to monitoring the status of items and having this electronic tool to expedite the review process, we have been able to reduce the review process.

Maintaining Service

As noted in the safety section above, a key issue for this project is the necessity to maintain quality and reliability of the City's existing utilities. The Psomas Team's experience in this type of construction will ensure minimal disruptions by employing a proactive approach to managing the construction and communication between all personnel.

Our team members have recent experience with gas line coordination having completed two compressed natural gas fueling stations for two other local agencies.

We will meet daily with the Contractors Project Superintendent, having daily/weekly meetings with the City of Manhattan Beach Public Works staff, and having a regular weekly construction meeting with the General Contractor, Subcontractors, and other City staff. In these weekly construction meetings a two or three-week look-ahead schedule, provided by the Contractor, will be thoroughly discussed, so the City's Operations staff will have a complete understanding of the work plan and its potential impacts to

operations. It times of functional turn-over or operation, one point of contact will be provided so that all communication is timely, effective, and efficient.

Protecting Existing Utilities

On existing utility projects and new installations, there are many systems that have to work together to ensure reliable output, and so many existing utilities that must be worked around in order to install the new processes and equipment. Unfortunately, many of these systems are buried below ground and are therefore, vulnerable to damage during construction. Our focus prior to any digging throughout the public thoroughfare will be to make sure the Contractor has taken all proper precautions, including attempting to locate all existing facilities via potholing (using non-destructive methods where appropriate) or other means, use of proper equipment (including hand digging), contacting USA or Dig Alert prior to any excavation, having repair parts on-hand for any situation, and having appropriate staff observing the digging.

Review of Sewer Video Inspection

Psomas will review CCTV videos and logs prepared by the contractor to confirm that the recommended repair is still appropriate and provide an analysis back to the City either clearing the contractor to commence with the recommended repair or recommending an alternate approach.

Christopher McNary

Construction Manager/Inspector



EDUCATION

BA/2011/Project Management/ITT Tech, Sylmar, CA

AA/2011/Computer Drafting & Design/ITT Tech, Sylmar, CA

EXPERIENCE

With Psomas for 9 years

Christopher (Chris) McNary has served as both Construction Manager and Inspector. In his role as Assistant Project Manager, he was responsible for supporting the Project Manager with project documentation, tracking, and documentation of submittals, RFIs, change order management, claims management, schedule and CPM analysis, labor compliance, correspondence, progress pay estimates, material sampling/testing coordination, utility coordination, and as-built documentation coordination. As an Inspector, Chris was responsible for field inspections and documentation, continual review of plans and specifications, coordination with contractor schedules for testing, site labor compliance, attending weekly progress meetings, regulatory agency permit mitigation monitoring, documentation of contract item quantities, documentation of extra work and claim situations, as-builts records, provision of pictorial and/or video logbook of construction activities, maintenance of as-built drawings, and development of punch list items with follow up corrective measures to close-out the construction activities.

Experience

City of Hermosa Beach Sewer Improvements, Hermosa Beach, CA:

Construction Manager and Inspector for this project consisting of repairs and rehabilitation to sanitary sewer segments at various locations throughout the City as determined by the City's Sewer Master Plan completed in FY 2007-08. Additional segments were included in the project through coordination with the concurrent Street Improvement project.

Rosecrans Avenue Improvement Project, Gardena, CA:

Construction Inspector (night work) for this \$4 million project. The project consisted of work across the entire width of the right of way along the two-mile length of this major arterial crossing the City of Gardena. Project work included removal of center turn lane pavement, installation of raised medians, stamped colored concrete, landscaping, irrigation, driveways, sidewalks, curb ramps, traffic signal improvements, grind and overlay asphalt concrete pavement and signage and striping. The work required close coordination with the owners of multiple fuel pipelines and other underground facilities in the project boundaries and with adjacent business and residential property owners and tenants.

City of Hermosa Beach Street Improvements, Hermosa Beach, CA:

Construction Manager and Inspector for this project consisting of pavement rehabilitation and improvements to various streets throughout the city. Additional improvements included citywide isolated repairs that address drainage deficiencies, tree removals and repairs of associated sidewalk damage, street repairs due to root damage, and repairs to a portion of the bike strand. Psomas provided construction management,

including assistance with preconstruction and bidding, as well as inspection services.

Norwalk Transit Public Services Facility and Metrolink

Improvement Project, Norwalk, CA: Construction Manager and Inspector for this project consisting of improvements to four major areas of the facility, including pedestrian improvements in the parking lot, construction of additional bus shelters at the existing bus stop, interior remodel of the lobby and fleet maintenance office space, and upgrades to the Bus Wash located in the City yard.

Santa Monica Advanced Traffic Management Systems (ATMS) Project – Phase 4 (Phases 4A and 4B), City of Santa Monica, CA:

Construction Inspector for this project involving the connection of 40 signal-controlled intersections to the City’s centralized control system with fiber optic cables. The City’s ATMS is providing centralized control of the traffic signal controllers and all other Intelligent Transportation System (ITS) devices used to manage traffic, such as detection systems, transit priority system, emergency vehicle preemption system, variable message signs, and traffic monitoring cameras. The project involves installation of new conduit and modification of the existing interconnected conduit system to accommodate fiber optic cable. Also included were upgrades of traffic signal infrastructure ranging from a full replacement of all traffic signal equipment to less extensive upgrades such as the installation of new controller cabinet and video detection cameras.

Compressed Natural Gas (CNG) Station & Bus Maintenance Facility Modification, Long Beach Transit, CA:

Construction Inspector during the modification/upgrade of an existing Long Beach Public Transit Company (LBT) diesel bus maintenance facility to a CNG facility for the fueling and maintenance of 100 new CNG buses. Psomas provided construction management services, including coordination of daily activities and construction oversight. The project was a design-build project where a single contractor (Amtek Construction) was selected for the design and construction of the CNG fueling station and garage modifications. The project included installation of two CNG storage tanks (above ground) and three compressors, installation of underground pumps and conduit, modifications to existing maintenance facility including complex overhead work involving a large number of conduit and gas sensors, exhaust fans, and ceiling modifications.

Interstate 10/Soto Street Off-Ramp Widening & Rehabilitation, University of Southern California, Los Angeles, CA:

Construction Inspector responsible for monitoring the construction contractor for compliance with the approved plans and specifications. As part of the new USC Health Science Center Construction Project, Caltrans required an additional lane be added to the Soto Street off-ramp from the I-10 freeway to accommodate the higher volume of traffic that the new hospital would bring to an already overused ramp. The project included the addition of a fourth lane, relocated storm drain catch basin, full reconstruction of both the off-ramp and the adjacent on-ramp, including a new concrete center divider, crash cushions, and the installation of a new overhead sign to help delineate traffic movements for each lane. The project was on the border of City of LA, Caltrans, and the County of LA,

and required constant coordination with all three entities to keep the project moving forward. The project also included a complete replacement of the traffic signals, relocation of a new meter pedestal to feed them, and tying it all back into the existing traffic controller. This project was performed under a permit with Caltrans District 7 and the City of LA B Permit.

CITY OF MANHATTAN BEACH

ESTIMATED FEE SCHEDULE

2011-2012 SEWER REHABILITATION PROJECT PHASE 2

PRE CONSTRUCTION PHASE			
TITLE	ESTIMATED HOURS	RATE/HR	AMOUNT
Principal-In-Charge	2	\$180	\$360
Project Manager/Engineer (Video Inspection Review)	8	\$160	\$1,280
Construction Manager/Inspector	8	\$135	\$1,080
Project Administrator	4	\$75	\$300
SUBTOTAL			\$3,020
CONSTRUCTION PHASE			
TITLE	ESTIMATED HOURS	RATE/HR	AMOUNT
Principal-In-Charge	24	\$180	\$4,320
Construction Manager/Inspector	940	\$135	\$126,900
Project Administrator	112	\$75	\$8,400
SUBTOTAL			\$131,220
PROJECT CLOSEOUT PHASE			
TITLE	ESTIMATED HOURS	RATE/HR	AMOUNT
Principal-In-Charge	2	\$180	\$360
Construction Manager/Inspector	20	\$135	\$2,700
Project Administrator	20	\$75	\$1,500
SUBTOTAL			\$3,060
CONSTRUCTION SURVEY REVIEW			
TITLE	ESTIMATED HOURS	RATE/HR	AMOUNT
2 Man Survey Crew	32	\$265	\$8,480
Project Surveyor	16	\$160	\$2,560
SUBTOTAL			\$2,560
MATERIALS TESTING AND INSPECTION			
TITLE	ESTIMATED HOURS	RATE/HR	AMOUNT
Group Delta Consultants (see attached)	LUMP SUM	VARIES	\$41,204
SUBTOTAL			\$41,204
REIMBURSABLE EXPENSES			
Description of Services			ALLOWANCE
Reimbursables for delivery charges			\$500
SUBTOTAL			\$500
TOTAL ESTIMATED FEE:			\$181,564

NOTES:

- The estimated fees are based on a 140 working day schedule per the RFP, utilizing a blended Construction Manager and Inspector hourly rate of \$135. The total Construction Manager/Inspection hours proposed during the construction period assumes that this position will also cover the City's Rosecrans Widening Project halftime over the course of 45 working days. **Additional fee of \$24,300 (allowing for fulltime inspection coverage) will apply if the two noted projects are not awarded to Psomas together.**
- Psomas shall not be responsible for construction means, methods and techniques, or for safety measures, precautions or programs at the project site.
- Construction delays or additional services caused by factors outside the control of Psomas may require additional fees.
- Rates include miscellaneous related costs: vehicle, cell phone, digital camera and standard tools and equipment. All other direct expenses will be billed at cost.
- A shift which commences after 2:00pm or before 4:00am, during any twenty-four hour period, commencing at 12:01am is subject to a twelve and one-half percent (12.5%) differential.
- Overtime will be charged at 135% of the regular hourly rate. Sundays and holidays will be charged at 170% of the regular hourly rate.
- Construction Survey Review assumes 1- 8 hour field day for each street section of the project (4 days total).



TABLE 1 - COST ESTIMATE
Construction Materials Testing and Inspection Services
City of Manhattan Beach
2011-2012 Sewer Main Rehabilitation Project- Phase 2
Proposal No. MT15-092

TASKS/ SERVICES	Days	# of Personnel	Estimated Units	Unit	Hourly Rate	Amount
SEWER BACKFILL INSPECTIONS AND TESTING						
Compaction Testing of Sewer Trench Backfill	30	1	180	Hours	\$ 95.00	\$ 17,100.00
Lab Testing- ASTM D1557 Max Density			4	Tests	\$ 175.00	\$ 700.00
Lab Testing- ASTM D2419 Sand Equivalent			4	Tests	\$ 95.00	\$ 380.00
Vehicle Usage			2160	Mile	\$ 0.575	\$ 1,242.00
Total					\$	19,422.00
CONCRETE PLACEMENT INSPECTIONS AND TESTING						
Concrete Sampling and Testing Services	4	1	16	Hours	\$ 95.00	\$ 1,520.00
Compressive Strength Testing Cylinders			24	Tests	\$ 35.00	\$ 840.00
Sample Pick Up			8	Hours	\$ 55.00	\$ 440.00
Vehicle Usage			288	Each	\$ 0.575	\$ 165.60
Total					\$	2,965.60
ASPHALT PAVEMENT INSPECTIONS AND TESTING						
Observation and Testing of AC Paving-Field	6	1	48	Hours	\$ 95.00	\$ 4,560.00
Observation and Testing of AC Paving-Batch Plant	6	1	48	Hours	\$ 95.00	\$ 4,560.00
Lab Testing- Field Samples			6	Tests	\$ 500.00	\$ 3,000.00
Lab Testing- Batch Plant Samples			6	Tests	\$ 300.00	\$ 1,800.00
Vehicle Usage			864	Mile	\$ 0.575	\$ 496.80
Total					\$	14,416.80
ENGINEERING AND MISCELLANEOUS SERVICES						
Project Management/Client Meetings			20	Hours	\$ 145.00	\$ 2,900.00
Technical Data Admin/Test Report Distribution			20	Hours	\$ 75.00	\$ 1,500.00
Total					\$	4,400.00
Total Special Inspection and Materials Testing Cost					\$	41,204.40

The estimated quantities are based on schedules provided. Deviations from these quantities and amounts will lead to changes in actual charges incurred and increase in budgeted amount. If quantities need modification, please notify us immediately to adjust the quantities reflecting the budget.

Notes:

- 1) This estimate assumes that the project IS subject to prevailing wage laws.
- 2) This estimate EXCLUDES Methane Inspection Services
- 3) The hourly rates will be assessed based on four hours minimum and eight hours for work beyond four hours. Same day cancellations will be assessed at two hours minimum and cancellation received within two hours of the scheduled time, will be billed for four hours minimum.
- 4) Overtime will be applied at 1.33 times the regular hourly rate including Saturdays and additional hours at 1.5 times (including Sundays and Holidays) after first 12 hours of work.
- 5) The rates for inspection/testing not listed above will be provided upon request.
- 6) The samples on-hold (including concrete and/or soils) will be assessed based on unit rate fees.
- 7) No over-time is assumed in this cost estimate.