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March 12, 2018

Mr. Michael Roberts, P.E. Senior Civil Engineer Public Works Department City of Emeryville 1333 Park Avenue Emeryville, CA 94608

Re: Revised Fee Proposal Engineering Design and Permitting Services For Shoreline Protection of Point Emery Emeryville, CA

Dear Mike:

This revised fee proposal is in response to our telephone conversation of March 9, 2018, your email of October 12, 2017, and subsequent correspondence to provide engineering design and regulatory permitting services for providing shoreline protection to Point Emery. The figure below, that you provided in your email of Oct. 12th, shows the intended scope of protection for Point Emery.



Scope of Services

Our proposed scope of services consists of the following:

Task 1: Field Investigation

Topographic Survey: Towill, Inc. will perform a topographic survey to support our shoreline design work. This survey will cover both sides of Point Emery extending down to the -5.0 feet MLLW level. The landside topographic survey will be performed during low tide conditions, while the waterside will be performed during high tide conditions by use of a small aluminum vessel to perform a hydrographic survey down to -5.0 feet MLLW. Topographic data collected will be used to develop mapping at 1"=20' scale with a 1.0 feet contour interval. The survey will be performed using NAD83 horizontal datum and NAVD88 vertical datum with the NAVD88 elevation of MLLW determined. Deliverables will consist of a survey report listing primary control monuments with coordinates and elevations. An AutoCAD DWG file containing the merged topographic survey for use at 1"=20' scale will also be provided.

Geotechnical Investigation: Miller Pacific Engineering Group will perform the geotechnical investigation consisting of the following:

- 1. Site reconnaissance, pre-mark site for utility location (USA).
- 2. Hand auger two test borings, 5 to 10 feet deep, sample soil.
- 3. Perform laboratory testing of soils.
- 4. Perform engineering evaluation of data, and prepare geotechnical report with recommendations for shoreline protection along with boring logs and figures.

Shoreline Investigation: After completion of the topographic survey, Noble Consultants will perform a site field reconnaissance to inspect the existing shoreline and any existing shoreline protection in order to identify and record existing site conditions and assess the extent of required new shoreline protection.

Task 2: Preliminary Shoreline Protection Plan

Using the results of our topographic survey, and geotechnical and shoreline investigations, we will prepare a preliminary plan of the proposed shoreline protection improvements consisting of a plan view with typical elevation cross-sections. This will consist of two AutoCAD drawing sheets; one

for the plan view and one for the typical cross-sections. After submittal to the City for your review, we will meet with you in Emeryville to discuss any review comments.

Task 3: Regulatory Permitting

It is expected that this shoreline protection project will require processing and obtaining permits from the following regulatory agencies:

- 1. City Planning Commission and/or the Emeryville/Oakland Joint Planning Authority (E/OJPA). Since Emeryville is the lead agency regarding CEQA it is expected that the permit processing will be through the City's Planning Department. Our proposal is based on the City finding this project categorically exempt, otherwise additional work could be required including an Initial Study commissioned by the City as the lead agency.
- 2. San Francisco Bay Conservation and Development Commission (BCDC).
- 3. U.S. Army Corps of Engineers.
- 4. San Francisco Bay Regional Water Quality Control Board (RWQCB).
- 5. Possibly the California Department of Fish and Game (DFG).

Our regulatory permitting work will consist of the following tasks:

- 1. Using the findings and results of the above Tasks 1 and 2, we will prepare a detailed project description of the proposed shoreline protection including proposed construction materials, construction equipment & methodology, construction staging area, construction schedule, other alternative shoreline protection schemes considered including plus and negative impacts compared to the selected protection plan, and drawings showing the protection plan.
- 2. Padre Associates, Inc. will prepare a biological characterization and assessment of the Point Emery shoreline protection project. Their work will consist of performing a literature review to determine special-status plant and animal species that could occur within the project site; performing biological field surveys to evaluate biological resources; and prepare a biological technical report for our use in applying for regulatory permit approval.
- 3. Meet with the City Planning Department to discuss the proposed shoreline protection project and to review their permit application requirements for this project.
- 4. Prepare and submit the required City permit applications.
- 5. Prepare the regulatory permit applications for the BCDC (San Francisco Bay Conservation Development Commission), the RWQCB (California Regional Water Quality Control Board), the COE (U.S. Army Corps of Engineers), and if necessary the California

Department of Fish and Game (DFG). These 4 permits can be prepared on a JARPA (San Francisco Bay Area Joint Aquatic Resource Permit Application) permit form.

6. Respond to any and all regulatory permitting agencies' questions for more information.

Task 4: Fifty Percent Construction Drawings

We will prepare a fifty percent set of construction drawings with plan view, elevation crosssections, and any necessary details of the approved preliminary plan for shoreline improvements to the Point Emery shoreline. This will also include sufficient technical notes and conditions on the drawing set. Any regulatory permitting requirements will be incorporated in either our fifty percent drawings or ninety percent drawings as they become available. We will also provide our engineer's opinion of estimated construction cost at the fifty percent submittal. After submittal to the City for your review, we will meet with you in Emeryville to discuss any review comments.

Task 5: Ninety Percent Construction Drawings to include full PS&E

We will prepare a ninety percent set of construction drawings with plan view, elevation crosssections, and any necessary details of the approved fifty percent construction drawings for shoreline improvements to the Point Emery shoreline. This will also include all sufficient technical notes and conditions on the drawing set, and will include the construction contract documents with the technical specification sections for construction bidding. We assume that the City will provide us with a Word version of your standard construction documents for our edits and additions as necessary. We will provide our updated engineer's opinion of estimated construction cost at the ninety percent submittal.

Task 6: One-Hundred Percent Construction Drawings to include full PS&E

We will prepare a one-hundred percent (final) set of construction drawings with plan view, elevation cross-sections, and any necessary details of the approved ninety percent construction drawings for shoreline improvements to the Point Emery shoreline. This will also include all sufficient technical notes and conditions on the drawing set, and will include the construction contract documents with the technical specification sections for construction bidding. We will provide our updated engineer's opinion of estimated construction cost at the one-hundred percent submittal.

Note: Our above scope of work does not include any regulatory agency permitting fees that would be paid directly by the City. It also includes only a reasonable minimum estimated effort for

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responding to regulatory agency follow-up questions regarding the submitted permit applications. This estimate could vary depending on the amount of effort required to receive permit approval.

Schedule and Fee

We estimate that this project will take approximately 12 months to complete from the time of receiving authorization. This assumes that the regulatory agencies approvals of the proposed project are received without difficulty. We propose to perform this work on a time and expense basis in accordance with our attached Schedule of Charges. Our estimated fee is \$90,035, which we would not exceed without your prior authorization. Also attached is our fee spreadsheet showing the breakdown of our estimated fee.

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We appreciate the opportunity to provide our design and permitting services to the City for this Point Emery Shoreline Protection project. Please call me if you would like to discuss any aspects of our proposal.

Sincerely,

NOBLE CONSULTANTS, INC.

Ronald M. Noble, P.E., D.CE, D.PE, D.WRE President

RMN/rmn Attach.



SCHEDULE OF CHARGES

Labor* (per hour)

Senior Principal Engineer	\$310	Construction Cost Estimator	\$150
Principal Engineer	260	Senior Survey Engineer	150
Senior Associate Engineer	228	Staff Engineer III	146
Associate Engineer	212	Staff Engineer II	142
Associate Economist	212	Staff Engineer I	127
Senior Structural Engineer II	198	Surveyor II	122
Senior Structural Engineer I	184	Surveyor I	108
Senior Engineer II	198	Senior Construction Inspector	118
Senior Engineer I	184	CADD Designer/Operator	118
Structural Engineer	172	Assistant Engineer	113
Project Engineer II	162	Construction Inspector	108
Project Engineer I	150	Technician	93
Construction Manager	158	Word Processing / Clerical	84

* Depositions, mediations, arbitrations, and court appearance labor is two times the rate shown and billed in 1/2-day increments.

Reimbursable Expenses**

In-house

Survey Vessel	\$300 per day	CADD Plots	\$2.00 per page
RTK-DGPS Surveying	375 per day	Imagenex Profiling Sonar	375 per day
Locus DGPS Surveying	275 per day	Imagenex Side Scan Sonar	375 per day
DGPS Navigation System	375 per day	Sparker Sub-bottom Profiler	400 per day
Gyro	25 per day	Uniboom Sub-bottom Profiler	350 per day
Motion Compensator	200 per day	3.5 Tuned Transducer System	250 per day
Precision Depth Sounder	75 per day	Marine Magnetometer	200 per day
Tide Gage	75 per day	Underwater Video System	125 per day
Theodolite/Total Station	150 per day	Truck	100 per day
Radios	15 per day	Generator	50 per day
Photocopying	0.30 per page	Inspector Boat	100 per day
Color Photocopy $(8-1/2x11)$	1.00 per page	Automobile	1.00 per mile
Color Photocopy (11x17)	1.25 per page		•

Out-of-Pocket

Travel, Subconsultants, Printing, Communication, etc.

** In-house at scheduled rate plus 15%. Out-of-pocket at cost plus 15%.

Invoices

Bills are due and payable on presentation. Interest at 1.5% per month (but not exceeding the maximum rate allowable by law) is payable on any amounts not paid within 30 days.

EXHIBIT B page 2 of 2

Fee Estimate Spreadsheet





Date of Estimate:

12-Mar-18

	Personnel>	SPE	PE	AssocE I	PGM	GEG	WP	-	-	٦	Fotals
	NCI Labor Rate>	\$310	\$260	\$212	\$146	\$150	\$84			Hours	Dollars
Task 1 -	Field Investigation (Shoreline)	8	8							16	\$4,560
	Coordination with Subs		8							8	\$2,080
Task 2	Preliminary Plan	4	16		24					44	\$8,904
	Review with City	4								4	\$1,240
Task 3	Regulatory Permit Processing										
	Prepare Detailed Project Description	2	16							18	\$4,780
	Meet w/ City Planning Dept re Permit Req'ts		4							4	\$1,040
	Prepare City Permit Applications		4		20					24	\$3,960
	Prepare JARPA for BCDC, Corps, Water Board, DFG		4		40					44	\$6,880
	Coordination w/ Permit Agencies/Respond to Questions		8							8	\$2,080
Task 4	Fifty Percent Construction Drawings	2	12		28	4				46	\$8,428
	Sizing Protection-Wave Analysis			8						8	\$1,696
	Review with City		4							4	\$1,040
Task 5	Ninety Percent Construction Drawings	2	8		28	4				42	\$7,388
	Ninety Percent Full PS&E	2	8	8	8					26	\$5,564
Task 6	One-Hundred Percent Construction Drawings	1	8		12	4				25	\$4,742
	One-Hundred Percent Full PS&E	1	6		8					15	\$3,038
Sub-Tota	ls	26	114	16	168	12				336	\$67,420
Subcon	sultants										
Towill, Inc.		Field Investigation-Surveying									\$9,500
Miller Pacific Engineering Group		Field II	nvestiga	ation-Ge	eotechn	ical					\$4,400
Padre Associates		Permitting-Biological Site Assessment									\$5,165
											•
Total Subconsultants			Handling charge @ 15% Sub-total								\$21,925
Expense	es										
car											\$350
Flight											<u> </u>
Expenses											\$250
Reproduct	ion										
Constructi	on Phase Travel (Sim to breakout above)										*
Total Reimbursable Expenses Handling charge @ 15% S			Sub-total	\$690							
Grand T	otal										\$90,035