

AMENDMENT NO. 1 TO THE DESIGN SERVICES AGREEMENT BETWEEN
THE CITY OF MANHATTAN BEACH AND PACIFIC ADVANCED CIVIL
ENGINEERING, INC.

This First Amendment ("Amendment No. 1") to that certain agreement by and between the City of Manhattan Beach, a California municipal corporation ("City") and Pacific Advanced Civil Engineering, Inc., a California corporation ("Consultant") (collectively, the "Parties") is hereby entered into as of December 3, 2019 ("Effective Date").

RECITALS

A. On February 5, 2018, the City and Consultant entered into an agreement for Design services for the Consultant to provide design services for the Larsson Street Booster Pump Station ("Agreement");

B. The Parties now desire to amend the Agreement to extend the term, modify the Scope of Services by adding additional services, and to increase the Maximum Compensation as compensation for the additional services.

NOW, THEREFORE, in consideration of the Parties' performance of the promises, covenants, and conditions stated herein, the Parties hereby agree as follows:

Section 1. Section 2 of the Agreement is hereby revised to extend the term of the Agreement through December 31, 2022, unless sooner terminated as provided in Section 12 of the Agreement.

Section 2. Section 3.A of the Agreement is hereby revised to increase the Maximum Compensation amount by \$149,810 for a new Maximum Compensation of \$287,926.

Section 3. **Exhibit A** ("Scope of Services") of the Agreement is hereby amended by adding Tasks 6 and 7, as set forth on the attached Exhibit A of this Amendment No. 1. **Exhibit B** ("Approved Fee Schedule") of the Agreement is hereby amended by adding the attached Exhibit B of this Amendment No. 1 to the Approved Fee Schedule.

IN WITNESS THEREOF, the Parties hereto have executed this Amendment No. 1 on the day and year first shown above.

[signatures begin on next page]

CITY OF MANHATTAN BEACH

By: _____
Bruce Moe, City Manager

ATTEST:

Liza Tamura, City Clerk

APPROVED AS TO FORM:

Quinn M. Barrow, City Attorney

Pacific Advanced
Civil Engineering, Inc.
(CONSULTANT)

By: 
JAMES MATTHEWS
Its: SR. VICE PRESIDENT

EXHIBIT A

SCOPE OF SERVICES

TASK 6 – FINAL DESIGN SERVICES FOR 2ND STREET Pump Station

Task 6.1 – Project Management

PACE's Project Manager, Duncan Lee, PE, will allocate resources, establish all internal staff responsibilities, handle billing, accelerate design schedule, and manage all external and internal communication for the project design team, including PACE's sub-consultants. Principle, James Matthews, PE will direct and review the technical work of PACE's engineering staff and sub-consultants and provide technical oversight of the project design package.

Task 6.2 – Preliminary Electrical Service Relocation & Upsizing from 100A to 200A

The existing SCE electrical service will need to increase in capacity from 100A to 200A to operate the pair of new temporary jockey pumps at 2nd Street. This is one of several potential critical path items that needs proactive action by PACE and the City. PACE will prepare exhibits depicting electrical needs and the proposed relocation of the service pedestal. PACE will also determine from SCE if the existing service conduits can be reused with new conductors, or if a new service is required with new conduits.

Task 6.3 – Assist City as Agent with SCE Service Application

PACE will provide assistance to the City staff as an "Agent" for upgrade and relocation of the existing electrical service pedestal. This will include preparing applications, coordinating with SCE service planner(s), and responding to questions from the City and SCE on the electrical service requirements and application.

Task 6.4 – Specifications for City Pre-purchase Bid of New Engine Pump Skid System

Based on preliminary evaluation and recommendation from the Basis of Design Report for 2BPS, PACE will prepare the technical specifications necessary for the City to procure the new engine and pump skid assembly as Bid Package #1. The City will provide PACE with equipment procurement boilerplate front end bid documents, which will be modified and incorporated by PACE into Bid Package #1. PACE will consolidate the equipment bid documents with technical specifications for the City to approve and to solicit bids from qualified vendors.

Task 6.5 – Preliminary New Engine Vibration Dampening Design

Before proceeding with detail design of the pump station at 2nd Street, PACE will identify specific elements of the structural support system, as well as mechanical enhancements that will help minimize noise and vibration impacts to the adjacent

commercial property owner from the new natural gas engine and temporary jockey pumps. Upon approval by City staff, PACE will proceed with detail design.

Task 6.6 – Preliminary Hatch Expansion Concept

Based on minimum required dimensions of the new hatch, PACE will prepare an exhibit to illustrate any proposed sidewalk improvements, including removable handrails, and narrowing of the sidewalk if necessary, to accommodate both new hatches and satisfy ADA accessibility requirements. Upon approval by City staff, PACE will proceed with detail design.

Task 6.7 – Survey to Establish Grade for Top of New Access Hatch

Since both pump stations are rehabilitation projects utilizing existing vaults without any grade change to the existing finished floor of either vaults, PACE will not perform a total station survey of the project limits at both pump stations. PACE will utilize GPS surveying equipment to identify the necessary increase in grade for the proposed access hatch at the 2nd Street Pump Station. During construction, the contractor will be required to provide survey staking and controls to verify grades, and to properly install all new mechanical piping and appurtenances per plans.

Task 6.8 – Assist with Outreach to Adjacent Commercial Property Owner and Field Observation of Existing Pump Operating Conditions

PACE will need to observe the existing levels of vibration and noise when the engine is in operation at the 2nd Street Pump Station. Observation gathered will allow PACE to determine level of precaution needed to conservatively dampen vibration and noise impacts from the new engine. PACE will record existing levels for comparison with the new pump station once it is completed. Working with the City to reach out to the existing adjacent commercial property owner will allow PACE and City staff a better understanding of their concerns, and to help prepare all stakeholders of upcoming construction impacts when traffic lanes will be closed for eastbound traffic on 2nd Street.

Task 6.9 – Geotechnical Boring and Report

Geotechnical services will be necessary to obtain sub-surface soil stability information. The geotechnical work will be performed by GMU Geotechnical, Inc. as a sub-consultant to PACE. Their scope will consist of reviewing existing site conditions, available soil data bases, one (1) hollow-stem soil boring up to depth of 50 feet, laboratory analysis of field samples, and to prepare a geotechnical report for the earthwork/grading, foundation, soil corrosively and slope stability design parameters. The geotechnical report will be attached with the project specifications, to be used by the contractor pertaining to trenching, shoring, and backfilling.

Task 6.10 – Project Design Coordination Meetings

PACE will coordinate and attend up to three (3) scheduled Design Coordination Meetings during the course of the final design period for 50%, 90% and 100%

submittals. The coordination meetings will either be in person or through conference call with remote web viewing capability.

Task 6.11 – 50% Design Drawings

PACE shall prepare a 50% Design Drawing for submittal to the City for review and comment. The total number of anticipated plan sheets with traffic control will likely be around 45 to 50 sheets for the 2nd Street Pump Station. The 50% Design Package is estimated to be around 20 sheets, and will contain the following Design Sections:

- G - Sheets – Title, vicinity map, general notes, hydraulic profile, and sheet index table
- C - Sheets – Civil demo, civil details, and site plan
- M - Sheets – Mechanical demo, layouts, mechanical details, engine, pumps, pipes, valves, PRV, equipment and existing ventilation
- S - Sheets - Structural modification layout plan and sections for access hatches
- E - Sheets - One-line Diagram, SES and Motor Control elevations, equipment and conduit layouts
- I - Sheets - Process and Instrumentation Diagrams

Task 6.12 – 90% Traffic Control

City staff accepted PACE's traffic control recommendation to eliminate eastbound access on 2nd Street during construction, which will eliminate the need to obtain a Caltrans Encroachment Permit for any traffic detouring along Sepulveda Blvd. PACE's sub-consultant will evaluate traffic impacts and will recommend the most cost effective and least impactful traffic control strategies for construction of the 2nd Street Pump Station improvements. Traffic control strategies will include both overnight and daily closures. Overnight closure will likely require water-filled k-rail barriers to protect the general public, which may also reduce construction cost by eliminating the need to setup and take down traffic controls on a daily basis. PACE, with its sub-consultant, shall prepare a 90% Traffic Control Plan Package for submittal to the City for review and comment.

Task 6.13 – 90% Design Drawings, Specifications & Engineer's Estimate

Based on City's comments of the 50% design drawings, PACE shall prepare a 90% Design Drawing Package for submittal to the City for review and comment. PACE shall prepare a 90% Project Specifications Package, which will include references to City's standards, technical specifications for new equipment and pre-purchase equipment, and will be incorporated with City-provided standard front-end documents. PACE will also develop bid forms with bid items for the project and include these documents in the Project Specifications Package for review by the City. PACE will also provide a preliminary Engineer's Cost Estimate.

Task 6.14 – Final 100% Traffic Control Plans

Based on City's comments of the 90% Traffic Control Plans, PACE shall prepare a Final 100% Traffic Control Plans for public bid. After obtaining approval from the City, the final Traffic Control Plans shall be delivered in both a printed wet-ink reproducible set and in electronic (PDF) set for use by the City in providing bid documents.

Task 6.15 – Final 100% Design Drawings, Specifications & Engineer's Estimate

Based on City's comments of the 90% Design drawings and specifications, PACE shall prepare a Final 100% Design Package #2. After obtaining approval from the City, the final design package shall be delivered in both a printed wet-ink reproducible set and in electronic (PDF) set for use by the City in providing bid documents.

Task 6.16 – Combine 2nd Street with Larsson Street Pump Station Bid Package #2

Through the development of the Basis of Design Report for the Larsson Street Pump Station, City staff agreed with PACE's findings that while the original scope for PACE was to design to rehabilitate the Larsson Street Pump Station, the 2nd Street Pump Station must be constructed first with the ability to meet daily demands through the use of temporary jockey pumps at the 2nd Street Pump Station. In addition, City staff shared with PACE their other two (2) planned reservoir improvement projects in the Fall of 2020, and that they believe it is essential both pump stations be completed before the City can proceed with those reservoir improvement projects. Therefore, the City has requested PACE to design both pump stations at the same time, at an accelerated pace, that will require more engineering resources. PACE will allocate additional resources to work on both pump station improvements simultaneously and will provide plans with specifications for each pump station that are unique, so that both stations will be bid together as a combined package.

TASK 7 – PRE-BID AND BID SERVICES (2BPS & LSBPS)

Task 7.1 – Pre-Bid and Bid Services

- PACE shall attend the City's Pre-Bid meeting and site-walk.
- At the request of the City, PACE shall assist the City with answering questions and providing clarifications to the Bid Documents during the bid period.
- At the request of the City, PACE shall provide a technical review of bids received to assist the City in selection of a contractor for the two pump station upgrade project.

EXHIBIT B
APPROVED FEE SCHEDULE



FEE PROPOSAL
PROJECT WORKSHEET

Project Data
Project Name: Larsson Street & 2nd Street Pump Station (Change Order #1)
Client: City of Manhattan Beach
PACE Job Number: B438
Estimate Date: September 18, 2019

2019 PACE Hourly Rate Schedule	
Description	Hourly Rate
Principal	\$245
Sr. Proj. Mgr./Sr. Consulting Engr.	\$215
Sr. Electrical Engineer / Sr. GIS Analyst	\$200
Project Manager /Consulting Engr.	\$195
Sr. Proj. Engr./Sr. Design Engr.	\$175
Instrumentation & Controls Specialist	\$150
Proj. Engr/Design Engineer II	\$150
Design Engineer	\$120
Sr. CAD Designer	\$130
CAD Designer/GIS Analyst	\$100
Graphic Designer	\$100
Proj. Coordinator/Admin. Support	\$80
Assistant Designer	\$80
G.P.S. Survey Unit (w/Operator)	\$240
Expert Witness/Legal Consultation	\$350 + Exp.

Total Fee Amount for 2nd Street Pump Station:	\$149,810
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Item No.	Work Item Description	Estimated Manhours																Man-Power Subtotal	Reimburs. Expenses	Total Task Costs
		Principal	Sr. Project Manager/Sr. Consulting Engr.	Sr. Electrical Engineer/Sr. GIS Analyst	Project Mgr./ Consulting Engr.	Sr. Project Engineer/Sr. Design Engr.	Inst. & Controls Specialist	Project Engineer /Design Engr. II	Design Engineer	Sr. CAD Designer	CAD Designer /GIS Analyst	Graphic Designer	Proj. Coord/Admin Support	Assistant Designer	GPS Survey Unit (w/Operator)	Structural Engineer	Geotechnical Engineering Sub			
6	Final Design Services																			
6.1	Project Management	6			6								6					\$3,120		\$3,120
6.2	Electrical Service Relocation & Upsizing Concept from 100A to 200A	1		6	3	2		6			8		2					\$4,240		\$4,240
6.3	Assist City as Agent with SCE Service Application	4		24	8			8			16		6					\$10,620		\$10,620
6.4	Pre-purchase Arrow Engine and Goulds Pump Specifications for City	3			4	4		16			8		4	8				\$6,375		\$6,375
6.5	Preliminary New Engine Noise Dampening Concept				2	4		4			8		2					\$2,650	\$1,500	\$4,150
6.6	Preliminary Hatch Expansion Concept				4	4		4			8		2					\$3,040	\$4,500	\$7,540
6.7	Survey to Establish Grade for Top of New Access Hatch				2			3			4				3			\$1,960		\$1,960
	Assist with Outreach with Adjacent Commercial Property Owner and Field Observation of Existing Pump Operating Condition	3			3	3					4							\$2,245		\$2,245
6.9	Geotechnical Boring and Report	2			4			4			2		2				68	\$15,830		\$15,830
6.1	Project Design Coordination Meetings	5			5			5										\$2,950		\$2,950
6.11	50% Design Drawings	4		8	12	12	12	16		12	60	8	8	30				\$22,620	\$6,000	\$28,620
6.12	90% Traffic Control Plans	4			4	4		8			16		2					\$5,420	\$14,000	\$19,420
6.13	90% Design Drawings, Specifications & Engineer's Estimate	2		4	6	6	6	8		6	30	4	8	16				\$11,710	\$3,000	\$14,710
6.14	Final 100% Traffic Control Plans	2			2	2		2			8		2					\$2,490	\$7,000	\$9,490
6.15	Final 100% Design Drawings, Specifications & Engineer's Estimate	2		2	4	4	4	4		2	16		4	8				\$6,390		\$6,390
6.16	Combine 2nd Street with Larsson Street Pump Station Bid Package #2	2		4	4	4		6			20		8	16				\$7,590		\$7,590
	SUBTOTAL TASK 6	40	0	48	73	49	22	94	0	20	208	12	56	78	3	0	68	\$109,250	\$36,000	\$145,250
	2nd Street PS & Larsson Street PS																			
7	Pre-Bid and Bid Services	0																		
7.1	Pre-Bid and Bid Services		0		8			20										\$4,560		\$4,560
	SUBTOTOL TASK 7	0	0	0	8	0	0	20	0	0	0	0	0	0	0	0	0	\$4,560	\$0	\$4,560
	TOTAL INLCUDING PRE-BID AND BID SERVICES TASK	40	0	48	81	49	22	114	0	20	208	12	56	78	3	0	68	\$113,810	\$36,000	\$149,810