CITY OF MARYSVILLE AGENDA BILL

EXECUTIVE SUMMARY FOR ACTION

CITY COUNCIL MEETING DATE: May 24, 2021

AGENDA ITEM:	
Supplemental Agreement No. 2 with Parametrix, Inc. for Final Design and Construction Services for the Downtown Stormwater Treatment Project (DSTP)	
PREPARED BY:	**DIRECTOR APPROVAL:**
Steven Miller, Senior Project Manager	
DEPARTMENT:	
Public Works (Engineering)	
ATTACHMENTS:	
Supplemental Agreement No. 2	
BUDGET CODE:	**AMOUNT:**
40250594.563000, D1802	$630,000

SUMMARY:
On April 8, 2019, Council approved a professional services agreement with Parametrix, Inc. for design of the Downtown Stormwater Treatment Project to treat stormwater from a minimum 140 acre downtown area. This project is funded in part by a Department of Ecology (Ecology) grant ($5M). The design is currently close to 90% complete. Staff submitted another grant for additional funds to expand the project (phase 2) and treat the entire 460 acre downtown basin as part of this project. Ecology has selected phase 2 of the project to receive an additional $2.7M in funds for construction, to be obligated in 2022. On March 8, 2021 Council approved an amendment to the existing agreement with Ecology to allow use of funds for phase 2 of the project design and to extend the terms of the funding agreement.

At this time, additional funds are required for Parametrix to complete final design, and to design elements not scoped as part of the original professional services agreement. The additional work includes geotechnical improvements to the soil, which has been shown by preloading to require additional stabilization measures to avoid long term settlement which would impact the facility. The work will also include undergrounding power and communications in the project area, to avoid conflicts with pump installation and maintenance. The work will also include construction services to provide engineering support necessary to complete construction and commissioning of the facility. The project is scheduled to advertise for bids later this year with construction starting in early 2022.

RECOMMENDED ACTION:
Staff recommends that Council authorize the Mayor to sign and execute Supplemental Agreement No. 2 with Parametrix, Inc. in the amount of $630,000 for additional design and construction services necessary to complete the Downtown Stormwater Treatment Project and to extend the term of the agreement to 12/31/2023.

RECOMMENDED MOTION:
I move to authorize the Mayor to sign and execute the supplement agreement.

SUPPLEMENTAL AGREEMENT NO. 2 TO PROFESSIONAL SERVICES AGREEMENT BETWEEN CITY OF MARYSVILLE AND PARAMETRIX, INC.

THIS SUPPLEMENTAL AGREEMENT NO. 2 ("Supplemental Agreement No. 2") is made and entered into as of the date of the last signature below, by and between the City of Marysville, a Washington State municipal corporation ("City") and Parametrix, a corporation ("Consultant").

WHEREAS, the parties hereto have previously entered into an agreement for the Downtown Stormwater Treatment Project (the "Original Agreement"), said Original Agreement being dated April 24, 2019; and

WHEREAS, both parties desire to supplement the Original Agreement, by expanding the Scope of Services to provide for final design and construction support engineering services and to provide compensation therefore;

NOW THEREFORE, in consideration of the terms, conditions, covenants, and performances contained herein or attached and incorporated, and made a part hereof, the parties hereto agree as follows:

1. Exhibit A, as referenced and incorporated in Section 1 of the Original Agreement, "SCOPE OF SERVICES", shall be supplemented by Exhibit A-1, attached hereto and by this references made part of this Supplemental Agreement No.2, and a part of the Original Agreement.

2. Section 2 of the Original Agreement, "TERM", is amended to add that the parties agree to extend the term of the Original Agreement to terminate at midnight December 31, 2023.

3. Section 3 of the Original Agreement, "COMPENSATION", is amended to include the additional Consultant fee of $630,000.00 and shall read as follows: "In no event shall the compensation paid to Consultant under this Agreement exceed $1,623,314.62 within the term of the Agreement, including extensions, without the written agreement of the Consultant and the City."

The total compensation payable to the Consultant is summarized as follows:

Original Agreement	$993,314.62
Supplemental Agreement No.1	$630,000.00
Grand Total	$1,623,314.62

4. Each and every provision of the Original Agreement for Professional Services dated April 24, 2019, shall remain in full force and effect, except as modified herein.

DATED this _____ day of _____, 20_____.

CITY OF MARYSVILLE

By _____
Jon Nehring, Mayor

DATED this _____ day of _____, 20_____.

PARAMETRIX, INC.

By _____
[Name]
Its: [Title]

ATTEST/AUTHENTICATED:

_____
_____, Deputy City Clerk

Approved as to form:

_____
Jon Walker, City Attorney

EXHIBIT A-1

SCOPE OF WORK

City of Marysville
Downtown Stormwater Treatment Project – Amendment 1

PROJECT BACKGROUND

The City of Marysville (City) owns properties on Ebey Slough, a tidal distributary of the Snohomish River, that are formerly the sites of the Geddes Marina and Welco Lumber. Long-term use for the sites includes plans for a park on the Geddes Site, which is in preliminary design, and regional stormwater treatment for the downtown area on the same site. This work has changed substantially since its inception, primarily relocating it from the Welco site to the Geddes site and the dramatic increase in treatment capacity from new product approvals that have come to the market since this project started, which allows the project to move from partial treatment to full treatment of the entire basin. The general scope of the effort was similar for both sites, therefore the project proceeded with no change required. However, the changed site will cause additional work to complete the plan set to the 90 percent level and the 100 percent bid package. This scope of work includes additional effort for these work items. The following change items are proposed due to the transfer to the new site, expansion for full capacity, and changed site conditions due to settling:

Task 1.3A Geotechnical Support for Soil Improvements

The results from the preloading have demonstrated that an unacceptable amount of settling risk will remain. Therefore, supplemental soil improvements, pilings, and/or other settlement mitigation measures will be required. Project requirements will be developed for the final bid package.

Task 3.2A Pre-Final (90%)

Utilities Relocation Design (90% and 100% design packages). The Geddes site will now require utilities accommodation.

Park Design Coordination (90% and 100% design packages). The facility will require integration into the Geddes park plans and application of design elements to the stormwater facility.

Task 3.3A Final Design (100%)

Design bid package phasing. The original Ecology grant (and scope of work) was to complete concept design for the entire full treatment and complete design for partial basin treatment of 140 acres. The new grant request will allow completion of the entire basin treatment. However, the grants will require that the project be separated into phased designs that can be bid separately (even if constructed together).

Task 6A Project Management

The project timeline is extended by 24 months to account for phase 2 construction.

Phase 7A Services During Construction (SDCs)

This is a new task that will be added to provide engineering services during construction.

Task 8A Landscape Architecture Support Services - MR

This is a new task to include all work to be provided by MacLeod Reckord PLLC, including 90% design support, 100% design support, bidding assistance, and services during construction.

WORK BREAKDOWN STRUCTURE

Phase 1A – Geotechnical Support for Settlement Mitigation

Task 1.3A – Geotechnical Support for Settlement Mitigation

The purpose of this task is to finalize the geotechnical design recommendations and assist with the development of bid documents for construction of soil mixing, piles, or other settlement mitigation methods.

Activities:

- Provide evaluation of foundation subgrade preparation and bearing capacity. As part of the assessment of foundation design requirements that will be included in the soil mixing method specification or piping design, input will be provided regarding foundation bearing capacity, and considerations of support for intermediate areas between soil mixing columns / pilings or construction of an aggregate mat pad over the soil mixing area.
- Provide utilities and earthwork recommendations incorporating utility and earthwork considerations related to the soil improvements or pilings, into the geotechnical report for support of utilities, dewatering that may be necessary, types of soil, and compaction requirements for the final selected facility improvements.
- If soil improvements are selected, develop performance specifications for ground improvements, as described above in the discussion of the performance specification. This will include review of the documents already developed as a preliminary evaluation of the feasibility of the soil mixing methods.
- If required, support services for permitting associated with ground improvement adjacent to the existing lagoon. This may consist of providing (1) containment berm adjacent to the lagoon, (2) providing an action plan in the event fracking of grout were to occur, or (3) use of sheet/king piles to limit migration of cementitious slurry into the adjacent lagoon.
- Update and provide final geotechnical report with a summary of the provided soil surcharge, monitoring, and recommendations for settlement mitigation and if selected, soil improvement with associated performance criteria. Additional sections within the geotechnical report will be updated to reflect changes resulting from soil improvements and/or other settlement mitigation measures.
- Coordinate with the broader team and participate in additional team meetings as required.
- Address any bidder questions on geotechnical or soil mixing project elements. (If needed)

Assumptions:

- Performance specification may suggest certain improvement techniques OR prohibit others based on site specific knowledge; however, the intent is for soil improvement contractors to provide both the design and construction of the associated soil improvement in accordance with the required performance criteria.

Deliverables:

- Technical soil improvement performance or piling specification.
- Responses to geotechnical review comments for permits.
- Updated Draft and Final Geotechnical Engineering Reports

Phase 3A – Detailed Design

This phase includes additional services that are required for the detailed design and includes tasks for pre-final (90%) and final (100%) design.

Task 3.2A - Pre-Final (90% Design)

Activities:

- Advancement of additional drawings to 90% design level.
- Coordination with MacLeod Reckord on park design elements including finishes, lighting, paving treatment, fencing, irrigation, plantings, and artwork. Includes coordination to incorporating MacLeod Reckord into the PS&E submittal.
- Project Phasing based upon construction and Ecology requirements.
- Electrical and civil coordination to relocate the overhead power lines in the project vicinity underground (i.e. "undergrounding") and to allow for a fiber connection to the City's existing fiber based network at the corner of 1st Street and State Ave. Relocation of site power transformer, sprinkler backflow prevention vault, and other site elements. Includes coordination with Snohomish County PUD (SnoPUD).
- Provision of civil and mechanical design elements to mitigate poor soil.
- Develop pre-final technical specifications (including required Division 1 specifications) for additional project elements detailed herein.
- Advancement of Engineer's Opinion of Probable Construction Cost (EOPCC) and Bid Schedule to pre-final design level for additional project elements detailed herein.
- Update Ecology-required design report describing basis of design, process description, and other information for additional project elements detailed herein.
- Prepare a submittal memo and submit the 90 percent design to Ecology for review and incorporate applicable comments in the 100 percent design.
- Conduct City and Ecology comment resolution meeting.

Assumptions:

- Same assumptions described for preliminary (30% and 60%) design.
- Project Phasing assumes single PS&E set with plans distinguishing phasing through call-outs, notes, and a key plan sheet defining the elements that are included in each of the two anticipated phases. Specifications and EOPCC will be in a single package with separate schedules for each of the phases
- Up to four additional drawings will be provided for the new electrical, civil, and controls work associated with undergrounding the electrical service and providing additional conduit and fiber to the corner of 1st Street and State Ave. Excludes any additional survey or relocation of any utilities impacted by new fiber route. Existing drawings and pipeline alignments will be modified as required.
- Bidding requirements and contract forms are developed by others at no cost to Parametrix except what is expressly described herein. Project Manual is assembled by others.
- Two meetings with the City are included to discuss the pre-final design before the City's review and from

comment resolution. The meetings will be attended by four Parametrix staff.

- The City's comments and building department comments on 90% design will be incorporated into the final (100%) design submittal.

Deliverables:

- Pre-final (90%) design drawings.
- Pre-final technical specifications.
- Pre-final (90%) EOPCC and Bid Schedule.
- Ecology 90 percent submittal memo
- Updated Basis of Design Report describing basis of design, process description and diagrams, and other related information.
- Responses to Ecology Comments on 90 Percent design

Task 3.3A – Final (100% Design)

Activities:

- Advancement of drawings to final design level, including civil, mechanical, structural, and electrical design drawings for the additional project elements detailed herein.
- Develop final technical specifications and Division 1 specifications.
- Advancement of EOPCC and Bid Schedule to final bidding level.
- Prepare Facility Operation and Maintenance Manual.
- Prepare a construction schedule for Ecology 100 percent submittal.

Assumptions:

- Same assumptions described for pre-final (90%) design.
- One meeting with the City is included to discuss and review the final design. The meeting will be attended by four Parametrix staff.
- The City's comments and building department comments on 90% design will be incorporated into the final (100%) design submittal.
- The Ecology-required Construction Quality Assurance Plan is not included.
- Bidding requirements and contract forms are developed by others at no cost to Parametrix except what is expressly described herein. Project Manual is assembled by others.

Deliverables:

- Final design (100%) drawings, as single pdf and CAD file, electronic only
- Final technical specifications and Division 1 specifications as single pdf and word file and individual specification word files, electronic submittal only
- Final (100%) EOPCC and Bid Schedule.

- Ecology Final Design submittal memo
- Responses to Ecology Comments on Final Design
- Construction schedule for Ecology
- Facility Operation and Maintenance Manual

Phase 6A – Project Management

The purpose of this phase is to provide oversight, communications, and management of the contract and scope of work. Work includes administrative project support, task order set-up, sub-consultant management, and quality control/assurance program.

Task 6.1A – Project Management

Activities:

- Prepare monthly billing review and invoices.
- Participate in project status meetings (non-task-specific).
- Conduct Sub-consultant management and contracting (non-task-specific).
- Monthly administrative project support (task set-up, filing, communications).
- Update project schedule.

Assumptions:

- The budget provides 24 months of project management (April 2021 through March 2023).
- Monthly project status meeting includes two Parametrix staff.
- Sub-consultant contracting is limited to one firm.
- Oversight and review of sub-consultant products is included in task-specific budgets.

Deliverables:

- Monthly invoices with progress notes.
- Monthly project status meeting (one hour each by phone; can be coordinated with other meetings in person).

Phase 7A – Services During Construction (SDCs)

Task 7.1A – Office Support

Objective

Provide support to the City's Project Manager and staff during the construction phase of the project.

Activities

- Attend Pre-Construction Conference led by the City.
- Review Contractor submittals as requested by the City.
- Review Requests for Information (RFIs) and develop and/or modify relevant engineering details.
- Review and provide the City with recommended responses to change order requests.

Assumptions

- City will lead the Pre-Construction Conference and provide any documents needed for presentation at the Conference.
- Up to 40 hours per month of Parametrix staff services for up to an 18-month construction duration. Services are limited to the level of effort included within this amendment task.
- Except for the Record Drawings, as discussed in Task 7.2 below, the Deliverables outlined in the City's Department of Ecology Agreement for the Construction Management task are provided by others at no cost to Parametrix.

Deliverables

- Submittal review sheets.
- RFI and change order responses, and stamped engineering details.

Task 7.2A: Field Support

Objective

Provide on-site support for observation of the geotechnical ground improvements and/or pilings at the direction of the City's Project Manager and staff during the construction phase of the project.

Activities

- Site visits as requested by the City.
- Structural engineer of record observations.

Assumptions

- Written observation and/or site visit reports are excluded unless specifically requested by the client.
- Up to 20 hours per month of Parametrix staff services for up to an 18-month construction duration. Services are limited to the level of effort included within this amendment task.

- Virtual meetings include up to three Parametrix staff.
- Materials testing services (i.e. concrete cylinder breaks, etc.) are not included herein and are assumed to be provided by a third party contracted directly with the City or the Contractor as required.

Deliverables

- Requested observation or sit visit reports.
- Geotechnical field reports.

Task 7.3A: Geotechnical Office Support Services During Construction

The purpose of this task is to provide office support engineering services during construction for review of submittals and RFIs related to the geotechnical aspects of the project.

Activities:

- Review RFIs and submittals. Excluding soil mixing submittal, 4 submittals or RFIs are assumed.
- Review Submittal for Soil Mixing Methods and Design from Contractor

Assumptions:

- This estimate does not include materials testing, apart from soilcrete testing for the monitoring of the soilcrete product being produced (if required).

Deliverables:

- Responses to contractor submittals and RFIs

Task 7.4A: Geotechnical Field Support Services During Construction

The purpose of this task is to provide field support engineering services during construction for construction observation of improvements as it relates to geotechnical aspects of the project.

Activities:

- Attend Pre-construction Meetings (Assume two including one specifically for soil mixing)
- Site visits to observe contractor explorations for soils to perform mix design (up to 2 visits)
- Site visits to monitor mixing operation and/or piling installation (Assume full-time at 11-hour days for 4 weeks) – Includes having the field representative collect up to 10 samples of soilcrete for compressive strength testing as part of the QA monitoring during installation.
- Site visits to observe performance testing following completion of soil mixing and/or piling installation (assume two 8-hour days)
- Site visits for pump station shoring installation (assume two 8-hour visits)
- Periodic visits to observe preparation of subgrade for structures (Assume 10 half-day site visits - 6 hrs total per visit, which is inclusive of the time for field reporting)
- Periodic visits for observation of construction for geotechnical elements (up to 5 site visits)

- Prepare Final Inspection Report.

Assumptions:

- This estimate is based on an assumed durations of Contractor activities. The actual cost of construction observation will depend on the Contractor's choice of equipment, the conditions encountered, the weather, and other factors beyond the control of the project team. In the event it seems necessary to exceed our authorized budget, the City will be notified and additional authorization received before proceeding.
- This estimate does not include materials testing, except for soilcrete testing for the monitoring of the soilcrete product being produced if required for the final selected settlement mitigation method.

Deliverables:

- Daily field reports for site visits.
- Final Inspection Report.

Task 7.5A: PLC Commissioning and Programming

Activities:

- Development of a draft and final control strategy for review and approval by the City.
- Provision of PLC and HMI programming for the pump station and storm water treatment elements.
- Field support for electrical panel and pump commissioning as needed.
- Up to four (4) hours of on-site training for City O&M personnel.

Assumptions:

- The budget provides up to 24 hours of field support and project meetings related to the PLC programming.
- The City will provide Operations & Maintenance staff on site to assist with facility startup and functional testing.
- The project electrical subcontractor will be available to assist with I/O testing with reasonable notice.
- This task excludes integration of the pump station PLC with the City's SCADA system, which will interface through a new fiber optic connection. Design of fiber connection included in Task 3.2A.
- Main PLC panel and RIO panel will be provided with Allen-Bradley ControlLogix processors and PanelView 5510 series displays as noted within the specifications.
- To maintain consistency with the City standards PLC and HMI programs will utilize most recent pump station programming to be provided by the City.

Deliverables:

- Draft and final control strategy.
- PLC and HMI draft and final pre-startup programming.
- “As-built” programming provided following startup and commissioning of the entire system.

Subtask 7.6A: Record Drawing Preparation

Objective

Provide project drawings to conform with the Contractor's construction records.

Activities

- Revise CADD drawings to conform with markups kept by the Contractor during construction.

Assumptions

- Parametrix will not verify completeness and accuracy of the Contractor's markup drawing set.
- Each drawing will take an average of 2 hours of CAD work and 1 hours of total engineering review.
- This task will be started after Contractor has provided a complete markup drawing set.
- No other record documents besides the Record Drawings will be provided.

Deliverables

- One 22"x34" and two 11"x17" bond hardcopy sets of the Record Drawings.
- CADD files for the project, including sheets and base files (x references), submitted via cloud-based file transfer site of City's choice.
- PDF copies of the Record Drawings submitted via cloud-based file transfer site of City's choice.

Phase 8A – Landscape Architecture Support Services – MacLeod Reckord PLLC

This task will support Parametrix with urban design components in their completion of design documentation and construction support services for the Downtown Stormwater Treatment Project. This work is a continuation of tasks MacLeod Reckord (MR) has performed directly for the City of Marysville (City) under Ebey Waterfront Park design contract. Once this Amendment is approved, this contract with Parametrix will take precedence and the remaining budget under MR's contract with the City will no longer be invoiced.

Task 8.1A – Pre-Final (90%)

Objective

Refer to above Task 3.2A for background information. MR is supporting Parametrix in the development of 90% design.

Activities

- Advance drawings to 90% design level.
- Advance park design elements including finishes, under seat wall lighting, paving treatment, fencing, irrigation, plantings, interpretive sign content, and artwork.
- Develop pre-final technical specifications for additional project elements as detailed by MR. Coordinate with Parametrix on concrete.
- Advance Engineer's Opinion of Probable Construction Cost (EOPCC) to pre-final design level for additional project elements as detailed by MR.
- Submit the 90 percent design to Ecology for review and incorporate applicable comments in the 100 percent design.
- Attend City and Ecology comment resolution meeting.

Assumptions

- Lighting is limited to lighting design for under seat lighting and coordination with Parametrix. Parametrix is responsible for electrical engineering to provide service to lighting. Any other site lighting as requested by the City is the responsibility of Parametrix.
- Irrigation and planting is limited to the site outside of the stormwater vaults. Parametrix will incorporate MR's irrigation CAD layer for the west side of the HDS vault units only into their overall irrigation plans for the project.
- Artwork is limited to face treatment of weir boxes and HDS units and will consist of metalwork. No original mural art by MR is anticipated.
- Interpretive sign content to be provided to the City as narrative and example graphics. City's standard template for interpretive signage assumed to be basis for design.
- No entry sign will be included.

- Project phasing, as required by Ecology, will not be shown in the 90% deliverable. MR anticipates some portion of MR plans, specifications, and EOPCC will be separated into two schedules however those separate schedules will not be shown in the 90% submittal.
- No additional sheets anticipated for layout, planting, or irrigation.
- MR to attend two meetings with the City and Parametrix to discuss pre-final design before City review and another at comment resolution. Meetings will be attended by two MR staff.
- Invoicing for April 2021 hours has been invoiced against MR's contract with the City.

Deliverables

- Pre-final (90%) design drawings.
- Pre-final technical specifications.
- Pre-final (90%) EOPCC.
- Support documentation to Parametrix on responses to Ecology Comments on 90 Percent design

Task 8.2A: Final Design (100%)

Objective

Refer to above Task 3.3A for background information. MR is supporting Parametrix in the development of 100% design.

Activities

- Advance drawings to final design level.
- Develop final technical specifications.
- Advance EOPCC to final bidding level.

Assumptions

- MR anticipates some portion of MR plans, specifications, and EOPCC will be separated into two schedules and will be shown in the 100% documents.
- MR to attend one meeting with Parametrix and the City to discuss and review the final design. The meeting will be attended by two MR staff.
- Separate schedules will be shown on plans primarily through use of boxes highlighting different schedules, additional of clarifying notes, "NIC" indicators, and similar. Extensive reorganization of sheet sets is not anticipated.

Deliverables

- Final design (100%) drawings, as single pdf, and CAD file, electronic only
- Final technical specifications as single pdf and word file and individual specification word files, electronic submittal only
- Final (100%) EOPCC.

Task 8.3A: Project Management

The purpose of this task is to provide task management for services provided on this task.

Activities:

- Prepare monthly billing review and invoices.
- Participate in project status meetings.
- Document management, correspondence, coordination.

Assumptions:

- The budget provides 24 months of project management (April 2021 through March 2023). MR assumes 6 months design; 18 months construction with intermittent involvement by MR.
- Project status meetings (up to 4) includes up to one MR staff.

Deliverables:

- Monthly invoices with progress notes. MR assumes 6 invoices during design; 6 invoices during construction.

Task 8.4A: Landscape Architecture Support Services During Construction (SDCs)

The purpose of this task is to provide office support, field support, and record drawing services during construction by MR as it relates to landscape architectural aspects of the project.

Activities:

- Attend Pre-Construction Conference led by City.
- Review Contractor submittals as requested by Parametrix.
- Review Requests for Information (RFI's) and develop/modify design details.
- Review and provide Parametrix with recommended responses to change order requests.
- Site visits as requested by Parametrix.
- Revise CADD drawings to conform with markups kept by the Contractor during construction.

Assumptions:

- City will lead the Pre-Construction Conference and provide any documents needed for presentation at the Conference.
- Up to 6 hours per month of MR staff services for up to a 6-month construction duration. Services are limited to the level of effort included within this contract task.
- Written observation and/or site visit reports are excluded unless specifically requested by Parametrix.
- Up to 3 hours per month of MR staff services for up to a 6-month construction duration. Services are limited to the level of effort included within this contract task.
- Virtual meetings include one MR staff.

- MR will not verify completeness and accuracy of the Contractor's markup drawing set.
- Services are limited to the level of effort included within this contract task.
- This task will be started after Contractor has provided a complete markup drawing set.
- No other record documents besides the Record Drawings will be provided.
- Services are limited to the level of effort included within this contract task.

Deliverables:

- Submittal review sheets.
- RFI and change order responses, and stamped engineering details.
- Requested observation or site visit reports.
- One 22"x34" and two 11"x17" bond hardcopy sets of the Record Drawings.
- CADD files for the project, including sheets and base files (x references), submitted to Parametrix.
- PDF copies of the Record Drawings submitted to Parametrix.
- Allowance is for direct expenses that include mileage, parking, and courier services.

EXHIBIT A-1

City of Marysville	Staff Name	P. Fendt	C. Simmons	J. Murphy	J. Linke	S. Wagner	T. Prince	M. Casanova	J. Swenson	J. Ceralde	C. West	D. Peterson	S. Sokol	J. Stolle	B. Moss	D. Miles	R. Pusey	K. Allinson	C. Carlson	C. Nichol	S. Harris	S. Crackenberger	A. Lucas	Labor Summary		Expenses	Subs		Sub Total	TOTAL
Amendment 1 - DSTP	Title/Category	PM	DPM, DM	DDM, Mechanical / I&C EOR	Pump Station EOR	Structural EOR	Civil/Storm EOR	Electrical EOR	LA	LA	Mechanical Design	Structural, Electrical Design	Storm Eng/Design	Civil, Mech Eng/Design, Cost Estimation	Eng. Support, Hydraulics	Electrical, I&C Design	Survey Supervisor	Sr Surveyor	Electrical / I&C Eng	Engineer I	Project Controls Specialist	Project Accountant	Publications Supervisor	Hours	Dollars	Travel	HWA	MR		
553-2967-003	Billing Rate	281.29	217.17	208.39	205.30	229.16	189.38	193.12	185.41	125.29	189.51	140.95	135.10	109.36	145.60	147.94	225.29	139.33	147.88	99.68	127.95	105.01	121.29							
TOTAL FEE ESTIMATE		$ 41,631	$ 62,544	$ 56,265	$ 11,497	$ 31,165	$ 40,148	$ 21,243	$ 7,417	$ 8,770	$ 11,370	$ 16,350	$ 9,998	$ 47,682	$ 874	$ 18,345	$ 4,506	$ 5,573	$ 33,124	$ 13,955	$ 7,677	$ 3,150	$ 7,277	**2,720**	**$ 460,560**	**$ 3,438**	**$ 106,747**	**$ 59,255**	**$ 166,002**	**$ 630,000**
Phase 1	**Project K/O, Data Collection, and Coordination - Supplement**		**4**	**30**		**12**	**12**							**12**						**20**				**90**	**$ 15,449**	**-**	**$ 31,697**	**$ -**	**$ 31,697**	**$ 47,146**
Task 1.3A	Geotechnical Support for Soil Improvements - PMX		4	30		12	12							12						20				90	$ 15,449				$ -	$ 15,449
Task 1.3A.HWA	Geotechnical Support for Soil Improvements - HWA																								$ -		$ 31,697		$ 31,697	$ 31,697
Phase 3	**Detailed Design - Supplement**	**6**	**42**	**72**	**12**	**46**	**114**	**48**	**18**	**60**		**36**	**14**	**204**	**6**	**28**			**64**	**40**			**40**	**850**	**$ 133,125**	**-**	**$ -**	**$ -**	**$ -**	**$ 133,125**
Task 3.2A	**Pre-Final (90% Design)**																								$ -				$ -	$ -
	Coordination with MR					12	32		4	12				32					8				8	108	$ 16,708				$ -	$ 16,708
	Phasing of project	4	16	16	8	4	24	4	4	16			4	48					8	24			8	188	$ 28,892				$ -	$ 28,892
	Underground Electrical Service and Fiber to 1st and State		6	16			6	24	2	6				60	4	16			24				6	170	$ 25,319				$ -	$ 25,319
	Civil, Structural and Mechanical Updates for Poor Soils			8		12	4					24	4										4	56	$ 9,583				$ -	$ 9,583
Task 3.3A	**Final (100% Design)**																								$ -				$ -	$ -
	Coordination with MR					8	24		2	8				16					4				4	66	$ 10,578				$ -	$ 10,578
	Phasing of project	2	16	16	4	4	16	4	4	16			4	24					8	16			4	138	$ 22,086				$ -	$ 22,086
	Underground Electrical Service and Fiber to 1st and State		4	12			4	16	2	2				24	2	12			12				2	92	$ 14,546				$ -	$ 14,546
	Civil, Structural and Mechanical Updates for Poor Soils			4		6	4					12	2										4	32	$ 5,413				$ -	$ 5,413
Phase 6A	**Project Management - Supplement**	**80**	**60**	**30**																	**60**	**30**		**260**	**$ 52,612**	**-**	**$ -**	**$ -**	**$ -**	**$ 52,612**
Task 6.1A	Project Management	80	60	30																	60	30		260	$ 52,612				$ -	$ 52,612
Task 7A	**Services During Construction (SDCs) - New Task**	**62**	**182**	**138**	**44**	**78**	**86**	**62**	**22**	**10**	**60**	**80**	**60**	**220**		**96**	**20**	**40**	**160**	**80**			**20**	**1520**	**$ 259,375**	**3,088**	**$ 75,050**	**$ -**	**$ 75,050**	**$ 337,513**
Task 7.1A	SDCs Office Support	40	90	50	30	30	40	20	10	10	20	40	40	80		40	20	40	20	80			20	720	$ 121,729				$ -	$ 121,729
Task 7.2A	SDCs Field Support	20	80	40	10	40	30	10	10					80					40					360	$ 66,684	$ 3,088			$ -	$ 69,772
Task 7.3A	Geotech Office Support Services																								$ -		$ 21,790		$ 21,790	$ 21,790
Task 7.4A	Geotech Field Support Services																								$ -		$ 53,260		$ 53,260	$ 53,260
Task 7.5A	PLC Programming & Commissioning		8	40				24								16			100					188	$ 31,862				$ -	$ 31,862
Task 7.6A	Record Drawings	2	4	8	4	8	16	8	2		40	40	20	60		40								252	$ 39,098				$ -	$ 39,098
Task 8A.MR	**Landscape Architecture Support Services - MR - New Task**																								**$ -**	**350**	**$ -**	**$ 59,255**	**$ 59,255**	**$ 59,605**
Task 8.1A	Pre-Final (90%) - MR																								$ -			$ 22,385	$ 22,385	$ 22,385
Task 8.2A	Final (100%) - MR																								$ -			$ 16,040	$ 16,040	$ 16,040
Task 8.3A	Project Management - MR																								$ -			$ 10,070	$ 10,070	$ 10,070
Task 8.4A	SDCs - MR																								$ -	350		$ 10,760	$ 10,760	$ 11,110
	Total Hours	148	288	270	56	136	212	110	40	70	60	116	74	436	6	124	20	40	224	140	60	30	60	2720						
TOTALS		$ 41,631	$ 62,544	$ 56,265	$ 11,497	$ 31,165	$ 40,148	$ 21,243	$ 7,417	$ 8,770	$ 11,370	$ 16,350	$ 9,998	$ 47,682	$ 874	$ 18,345	$ 4,506	$ 5,573	$ 33,124	$ 13,955	$ 7,677	$ 3,150	$ 7,277	**2,720**	**$ 460,560**	**$ 3,438**	**$ 106,747**	**$ 59,255**	**$ 166,002**	**$ 630,000**