



**SENT VIA EMAIL**

**AMENDMENT No. 4 to  
CONTRACT No. 30007680  
FOR  
Blower System and Building Rehabilitation Project**

This Amendment No. 4 amends Contract No. 30007680 dated the 17<sup>th</sup> day of March, 2022, by and between Carollo Engineers, Inc. ("Consultant") a foreign business corporation of the State of Delaware, and the City of Portland, a municipal corporation of the State of Oregon ("City") by and through their duly authorized representatives. This Amendment may refer to Consultant and City individually as a "Party" or collectively as the "Parties."

This Amendment is authorized by City Ordinance No. \_\_\_\_\_ and City Code 5.68.035.

The Effective Date of this Amendment is \_\_\_\_\_, 2024. The purpose of this Amendment is to add funds to the Contract, revise the Scope of Work, revise Exhibit B Contract Budget Detail, and revise Exhibit C Labor Classifications and Hourly Rates.

The Contract was previously amended as follows:

Amendment 1, dated May 1, 2022 revised the TERMS AND CONDITIONS and revised the Hourly Rates within Exhibit C – Consultant's Hourly Billing Rate Table.

Amendment 2, dated March 17, 2023 changed the City's Project Manager from Cyrus Osborn to Yang Zhang and revised the Hourly Rates.

Amendment 3, dated July 1, 2024, changed the City's Project Manager from Yang Zhang to Lisa Moscinski, changed the Consultant's project manager from Dan Laffitte to Karl Hadler, increased the not-to-exceed amount of \$4,374,679 by \$699,576 to a new not-to-exceed amount of \$5,074,255, revised the Scope of Work, revised the Subconsultants section, revised the Hourly rates, and revised the Contract Design Schedule.

The Parties agree to Amend the Contract as follows:

1. The Contract not-to-exceed amount of \$5,074,255 is increased by \$1,962,434 to a new total not-to-exceed amount of **\$7,036,689**.

2. The Scope of Work is revised as shown below. New language is **BOLD** and **underlined**. Deleted language is indicated in text ~~strikethrough~~. Where there is no BOLD and underline or text strikethrough, language shall remain the same.

## EXHIBIT A STATEMENT OF WORK

### 1. SCOPE OF WORK

1.4 Replace the existing 12kV switchgear, **transformer T3**, and ~~MCC portion of MCB.~~

1.8 Evaluate and replace the building roof membrane system ~~and building HVAC.~~

**1.10 Perform structural modifications to the blower building and red tunnel for installing, accommodating, and supporting new equipment and piping, including, but not limited to modifications for new electrical room in the blower building, modifications for the blower building basement access, and modification to the deck on the top of red tunnel.**

**1.11 Perform structural repairs to the blower building perimeter beam concrete spalling and replacement of secondary treatment influent channel gratings and supporting beams.**

**1.12 Replace three transformers (T10, T11 and the emergency transformer) and associated electrical panels in Corridor 7 of the blower building.**

**1.13 Perform the blower building seismic upgrades recommended from the Tier 3 analysis.**

### 2.10 TASK 1000—PRE-DESIGN

#### 2.10.1 Task 1000 Scope:

**2.10.1.9 Explore the option to exclude a master control panel (MCP) from blower package provided by the manufacturer.**

#### 2.10.2 Task 1000 Deliverables:

2.10.2.10 Structural plans that establish ~~seismic modifications required, as well as~~ modifications to the existing structure ~~if required,~~ and seismic supports for all equipment and piping.

**2.10.2.22 Electrical, instrumentation and control site visit notes.**

2.10.3 Task 1000 Assumptions:

2.10.3.4 All landscape-related work is related to the proposed Ecoroof. **BES will apply for exception to the Ecoroof requirement.** No at-grade-landscape work (including stormwater) is currently scoped or anticipated.

2.10.3.11 An allowance of \$63,000 is included for early procurement assistance of the blowers, including procurement package to procure submittals and subsequent submittal review. Consultant factory testing is not included in the scope.

**2.10.3.22 One (1) review meeting with BES and the blower manufacturer to review the MCP control strategy.**

**2.10.3.23 Two (2) coordination meetings to review findings from electrical, instrumentation and control field visits and verify design scope.**

**2.10.3.24 Two day of site visits for additional electrical, instrumentation and control scope, such as Honeywell panels, Corridor 7 transformers and panels, and transformer T3, etc.**

**2.10.3.25 The existing mechanical room in the blower building second floor will be modified to new electrical room. The gravity strengthening and new access for the new electrical room are required.**

**2.10.3.26 Structural drawings of seismic upgrades are not included in Pre-Design deliverables.**

2.11 TASK 1100 – DETAIL DESIGN ACTIVITIES

2.11.1 Task 1100 Scope

**2.11.1.16 Survey within the agreed boundary for outdoor location of new Transformer T3.**

**2.11.1.16.1 Prepare a site survey plan, including site visit and review of existing information and discussions with BES team.**

**2.11.1.16.2 Establish a horizontal and vertical control network for the**

project area. Horizontal control will be based on the Oregon Coordinate Reference System datum. Vertical control will be based upon City of Portland vertical datum.

2.11.1.16.3 Review the existing utility plan and provide utility locating on the locations of known utilities. Evaluate the presence of underground utilities using a third-party utility locates firm.

2.11.1.16.4 Conduct potholing within the agreed boundary to locate utilities as needed.

2.11.1.16.5 Perform site survey of the intended project area with the following guidelines.

2.11.1.16.5.1 Tie features within the survey limits of the project and include 3D coordinates. Topographic features include utilities, drainage, trees (6-inch diameter at breast height or greater) and shrubs, and improvements (paved areas, curb, sidewalk, fences, and structures).

2.11.1.16.5.2 Collect supplemental topographical data to create points and break lines in adequate quantity to accurately represent the surface of the ground.

2.11.1.16.5.3 Map and record utility facility structures (for example, concrete pads, equipment enclosures).

2.11.1.16.5.4 Establish field ties of utility features, including underground stormwater lines and structures, underground wastewater lines and structures, underground water lines and structures, underground and overhead power lines, and underground gas lines.

2.11.1.16.5.5 Create detailed base map file with survey data collected.

2.11.1.17 Support BES to Implement Aeration Basin Air MOV Control Strategy.

2.11.1.17.1 Review the existing process control narrative.

2.11.1.17.2 Participate in meetings with BES to confirm existing control understanding, and to discuss the level of MOV control that BES plans to implement.

2.11.1.17.3 Develop high level process control narrative for BES to implement.

#### **2.11.1.17.4 Support/answer questions during and after implementation.**

**2.11.1.18 Owner's Contingency to be managed by BES within the overall contract not-to-exceed amount. The intent of the owner's contingency is to provide budget for tasks for professional services that meet the following criteria:**

- **Additional scope required to complete the project that was not anticipated in the original scope of work.**
- **Result from decisions made by permitting agencies or other parties that influence the scope of professional services required to ensure project completion.**
- **Are needed to increase task budgets where the assumptions made to create the budget are exceeded and the exceedance is beyond the control of the Consultant.**

**Written authorization with level of effort from BES's Project Manager is required to reallocate budget from this owner's contingency task to an existing task or a new subtask that is within the overall scope of the project but not clearly defined as within the scope of services.**

#### **2.11.2 Task 1100 Deliverables**

**2.11.2.3 60% Design Submittal including, but not limited to, the following:**

**2.11.2.3.5 Structural plans, sections and details coordinated with other design disciplines. Documents will include seismic improvements upgrades recommended from the ASCE 41 Tier 3 analysis, identified in earlier project development phase modifications to the existing structure, and piping supports, including dimensional information and structural member sizes.**

#### **2.11.2.3.16 Survey base map.**

**2.11.2.4 90% Design Submittal and Permitting Documents including, but not limited to the following:**

**2.11.2.4.20 Draft contract documents (electronically sealed), including plans, specifications, standard details, and investigations reports, for CM/GC to develop GMP.**

**2.11.2.4.21 Sealed project plans, specifications, structural calculations, and other reports and documents required for a complete building permit application.**

**2.11.2.4.22 Responses to BDS check sheets, including revised project plans, structural calculations, and other reports and documents, as required by BDS, to successfully complete the BDS Building Permit Application process.**

2.11.2.5 Final Design Document Submittal and ~~Permitting Documents~~ including, but not limited to, the following:

2.11.2.5.1 Sealed project plans, specifications, structural calculations, and other reports and documents required for **construction**. ~~a complete Building Permit Application from BDS in Adobe Acrobat .pdf electronic format, and a complete AutoCAD/MS Word set with no password protection.~~

~~2.11.2.5.2 Responses to BDS check sheets, including revised project plans, structural calculations, and other reports and documents, as required by BDS, to successfully complete the BDS Building Permit Application process. All submittals shall be in Adobe Acrobat .pdf electronic format.~~

**2.11.2.6 High level aeration basin air MOV process control narrative.**

2.11.3 Task 1100 Assumptions:

2.11.3.12 Electrical coordination study to be prepared using SKM software and current model provided by City. **Consultant may review multiple historical SKM models provided by the BES to determine appropriate basis for electrical coordination study.**

2.11.3.13 The control room console and instrumentation panel replacement are included in the design. Console will be replaced in similar location and no conduit development, schedule or routing will be required for connected conduits. 340 Digital and 120 analog I/O connections are assumed for effort associated with removal of the console, ~~and instrumentation boards,~~ **and pneumatic panels in control room, and Honeywell panels, MAU control panel, and I/O rack 5 in the blower room.** ~~replacement with a new PLC panel for the control room.~~ **Active I/Os from above removed control console and panels will be rerouted to the PLC I/O racks in tunnels. 24 VDC power supply in the existing pneumatic panel will be replaced and relocated to supply power for the loops.**

**2.11.3.24 Seismic modifications resulting from the ASCE 41 Tier 3 Analysis are incorporated into the detailed design.**

**2.11.3.25 The survey base map will be in Autodesk version 2024, Civil 3D.**

**2.11.3.26 Survey site control will be utilized, US State Plane-83, Int Ft, Oregon North, C.O.P. Elevations.**

**2.11.3.27 Potholing estimate is for 2 days on site. BES is responsible for any site-specific permits and providing site access.**

**2.11.3.28 Panelboards in Corridor 7 will be replaced in place. No rewiring to the new panelboards.**

**2.11.3.29 Electrical field investigation to as-built existing conduits is not included.**

**2.11.3.30 Modification or upgrade of secondary PLC panel is not included.**

**2.11.3.31 Gratings in the secondary treatment influent channel is replaced in kind (the same depth bearing bars). Structural modification to the grating opening is not included.**

**2.11.3.32 Grating, steel beams, and associated connections will be designed to support a uniform live load and concentrated load to be specified by BES based on the live load map for the CBWTP. A design live load equals to 100 pounds per square foot and a concentrated wheel load equals to 5,000 pounds.**

**2.11.3.33 An allowance of \$400,000 for seismic upgrade design and \$100,000 for seismic construction support is included. A detailed scope and level of effort estimate will be developed based on the Tier 3 analysis results and provided to BES. No work on seismic upgrades design will be conducted without specific authorization by the BES project manager.**

## **2.12 TASK 1200 – PROCUREMENT (BID PERIOD) SUPPORT SERVICES**

2.12.1 Task 1200 Scope: ~~The City of Portland's Procurement Services Division will advertise the project, electronically distribute bid documents, manage communications with prospective bidders, conduct pre-bid conference, issue addenda, receive and evaluate bids, and award the construction contract.~~ **The project will be implemented under a Construction Manager/General Contractor (CM/GC) delivery approach. The Consultant will support BES and collaborate with CM/GC for the project delivery and** ~~In support of these efforts, the Consultant will perform the following tasks as requested by the City:~~

**2.12.1.5 Facilitate a project kick-off meeting and a knowledge transfer workshop with the CM/GC for their onboarding and assisting them to engage on the project.**

**2.12.1.6 Coordinate with the CM/GC and BES for design interface including:**

**2.12.1.6.1 Coordination on cost estimating methodology.**

**2.12.1.6.2 Cost reconciliation of scope and quantities at 60 and 90 percent design completion with CM/GC cost estimates.**

**2.12.1.6.3 Support development of Division 0 and 1 specification requirements, if needed.**

**2.12.1.6.4 Identify site features or facilities that may require CM/GC preconstruction phase field investigation to support final design.**

**2.12.1.6.5 Respond to CM/GC comments at design milestones including design quality assurance and constructability review comments.**

**2.12.1.6.6 Participate in review of CM/GC early equipment procurement package(s). Provide review and feedback on acceptability of proposals for conformance with technical specifications.**

**2.12.1.7 Work with the BES and CM/GC to identify opportunities for cost savings and participate in cost optimization review including review workshops. Incorporate decisions and comments from the cost saving efforts into design documents.**

**2.12.1.8 Prepare the bid documents for an early equipment procurement package.**

**2.12.1.9 Prepare responses to bidders' questions and requests during the bidding process for early equipment procurement package and CM/GC development of the Guaranteed Maximum Price. Incorporate the responses into design documents.**

**2.12.1.10 Assist the BES in evaluation of GMP(s) against Engineer's Opinion of Probable Construction Costs.**

**2.12.1.11 Owner's Contingency to be managed by BES within the overall contract not-to-exceed amount. The intent of the owner's contingency is to provide budget for tasks for professional services that meet the following criteria:**

- **Additional scope required to complete the project that was not anticipated in the original scope of work.**



- Result from decisions made by permitting agencies or other parties that influence the scope of professional services required to ensure project completion.
- Are needed to increase task budgets where the assumptions made to create the budget are exceeded and the exceedance is beyond the control of the Consultant.

Written authorization with level of effort from BES' s Project Manager is required to reallocate budget from this owner's contingency task to an existing task or a new subtask that is within the overall scope of the project but not clearly defined as within the scope of services.

2.12.2 Task 1200 Deliverables:

2.12.2.4 Written comments to CM/GC 60 and 90 percent Construction Cost Estimates.

2.12.2.5 Memorandum documenting the cost saving evaluation and decisions.

2.12.2.6 Workshop slides, agenda, meeting minutes.

2.12.2.7 Written responses to CM/GC 60 and 90 percent design comments.

2.12.2.8 Written responses to the bidder's questions and information requests.

2.12.2.9 Bid documents for early procurement package.

2.12.3 Task 1200 Assumptions:

2.12.3.1 ~~No assumptions for this task.~~ CM/GC will be onboard at 60% design.

2.12.3.2 Cost Saving Evaluation: An allowance of 256 hours is included for evaluating selected cost saving items and incorporating design changes, the memorandum documenting the cost saving evaluation and decisions, and workshop slides, agenda, meeting minutes. Additional effort exceeding the above allowance will need to be authorized by the City and approved from Owner's contingency.

2.12.3.4 Addressing the design scope change resulting from CM/GC's review is not included and will need to be authorized by the City and approved from Owner's contingency.

**2.12.3.5 Early procurement is limited to the following equipment: blowers, MCC, transformers, and RVSS.**

**2.13 TASK 1300 – CONSTRUCTION SUPPORT SERVICES**

**2.13.3 Task 1300 Assumptions:**

2.13.3.1 Consultant team will review up to 450 **187** submittals and resubmittals with each review budgeted for 5.5 hours.

2.13.3.2 Consultant team will review up to 450 **204** RFIs with each RFI budgeted for 4.5 hours.

2.13.3.3 A maximum of ~~thirteen (13)~~ **eighteen (18)** design clarifications are assumed. An average of 8.5 hours per design clarification is assumed.

2.13.3.4 A maximum of ~~twelve (12)~~ **seventeen (17)** change order proposals are assumed. An average of 8.5 hours per change order proposal is assumed.

2.13.3.5 An allowance of twenty-three (23) weekly construction meetings be various design disciplines are assumed.

2.13.3.6 An allowance of ~~thirty-five (35)~~ **fifty (50)** periodic construction observations are assumed.

2.13.3.7 Construction services are estimated based on an assumption of a \$16 **\$26** million construction project.

**2.13.3.8 Owner's Contingency to be managed by BES within the overall contract not-to-exceed amount. The intent of the owner's contingency is to provide budget for tasks for professional services that meet the following criteria:**

- **Additional scope required to complete the project that was not anticipated in the original scope of work.**
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## Consultant and Subconsultant Direct Costs

<b>Carollo Engineers, Inc. Direct Costs:</b>	<b>Amount</b>
<b>PHASE 200 - PRE-DESIGN – SUBTASK 1009</b>	
Airfare, two new trips from various locations	\$1,200
Hotels, estimated 2 nights	\$350
Meals per diem, estimated 4 days	\$300
Rental Car, estimated 4 days	\$400
Parking/Taxi/Mileage	\$150
<b>Subtotal</b>	<b>\$2,400</b>
<b>PHASE 300 – DESIGN – SUBTASK 1123</b>	
Potholing	\$6,306
<b>Subtotal</b>	<b>\$6,306</b>
<b>Total</b>	<b>\$8,706</b>

<b>Greenbusch Group, Inc. Direct Costs:</b>	<b>Amount</b>
<b>PHASE 400 – PROCUREMENT SUPPORT SERVICES – SUBTASKS 1206, 1207, 1208</b>	
Mileage (600 miles@\$0.67)	\$400
Parking	\$20
Hotel	\$280
<b>Total</b>	<b>\$700</b>

<b>SEFT Consulting Direct Costs:</b>	<b>Amount</b>
<b>PHASE 300 – DESIGN – SUBTASK 1120 – 1122, 1125</b>	
<b>PHASE 400 – PROCUREMENT SUPPORT SERVICES – SUBTASKS 1206, 1207, 1208</b>	
<b>PHASE 500 – CONSTRUCTION SUPPORT SERVICES – SUBTASKS 1302 &amp; 1303</b>	
Document Reproduction Standard Size (47,500 pages (+/- 1000 pages per month) @ \$0.06 per page)	\$2,850
Document Reproduction Large Format (450 pages @ \$3.00 per page)	\$1,350
<b>Total</b>	<b>\$4,250</b>

<b>Emerio Design, LLC. Direct Costs:</b>	<b>Amount</b>
<b>PHASE 300 – DESIGN – SUBTASK 1123</b>	
Underground Utility Locate Service (Applied Professional Services (APS))	\$1,015
<b>Total</b>	<b>\$1,015</b>

3. The SUBCONSULTANTS section is deleted in its entirety and revised as shown in the table below:

NAME	DMWSDVESB CERTIFICATION TYPE	ROLE ON PROJECT	SUBCONTRACT AMOUNT	REVISED SUBCONTRACT %
Concise Communications, Inc.	MBE/WBE/DBE/ESB	Technical Writing	\$8,170	0.12%
Elcon Associates, Inc.	MBE/DBE	Electrical and Instrumentation	\$962,578	13.68%
Emerio Design, LLC	MBE/DBE	Scanning Services	\$40,761	0.58%
NNA Landscape Architecture	MBE/DBE/ESB	Eco-roof/Landscape Architecture	\$49,580	0.7%
Northwest Geotech Consultants, Inc.	MBE/DBE	Geotechnical	0	0
Perimon Group, LLC	WBE/ESB	Project CD Lead and Process Mechanical Drafting	\$172,105	2.45%
SEFT Consulting Group, LLC	MBE/ESB	Structural/Resiliency	\$854,479	12.14%
Strongwork Architecture, LLC	ESB	Building Architecture	\$136,980	1.95%
The Formation Lab	WBE/DBE/ESB	D/M/W/SDV/ESD Coordinator, Equity Lead	\$45,355	0.65%
The Greenbusch Group, Inc.	WBE	Building Mechanical (HVAC/Plumbing)	\$235,583	3.34%

4. The Contract Budget Detail is revised as shown in Exhibit B – Contract Budget Detail Amendment 4.
5. The Hourly Rates section is amended as shown in Exhibit C—Consultant's Hourly Billing Rate Table.

All other terms and conditions of the Contract remain unchanged by this Amendment and in full force and effect.

This Amendment may be signed in two (2) or more counterparts, each of which shall be deemed an original, and which, when taken together, shall constitute one and the same instrument. The Parties agree that they may execute this Amendment by electronic means, including the use of electronic signatures.

IN WITNESS WHEREOF, the Parties hereby cause this Amendment to be executed.

**CAROLLO ENGINEERS, INC.**

\_\_\_\_\_  
Authorized Signature                      Date

\_\_\_\_\_  
Printed Name and Title

Address: \_\_\_\_\_

Phone: \_\_\_\_\_

Prepared by Taylor Boosey, BES Contract Analyst

***Sent to Carollo Engineers, Inc., via email***

**Contract Number: 30007680**

**Amendment Number: 4**

**Contract Title: Blower System and Building Rehabilitation Project**

**CITY OF PORTLAND SIGNATURES**

By: \_\_\_\_\_ Date: \_\_\_\_\_  
Chief Procurement Officer

Approved:

By: \_\_\_\_\_ Date: \_\_\_\_\_  
Office of City Auditor

Approved as to Form:

By: \_\_\_\_\_ Date: \_\_\_\_\_  
Office of City Attorney

30007680 Carollo Engineering, Inc.

Amendment 4

Exhibit B Contract Budget Detail

	Senior Prof	Senior Prof	Senior Prof	Senior Prof	Senior Prof	Tech	Senior Prof	Project Prof	Senior Prof	Senior Prof	Prof	Senior Tech	Lead Prof	Senior Prof	Senior Prof	Project Prof	Assistant Prof	Assistant Prof	BIM Manager	Doc Processing		Carollo Labor Cost	Carollo Direct Costs	Carollo Total Costs						The Formation Lab (M/W/ESB Coordinator)						Greenbusch Group (HVAC/Plumbing)	
Labor Classification																																					
Project Role	Project Manager	Design Manager	Quality Reviewer	Process Modeling	Civil Lead	Civil CAD	Quality Reviewer	PE / APM	CM Specialist	Electrical Lead	Electrical	Electrical CAD	Controls QA	Cost Estimating	Structural	APM	Assistant Professional	Assistant Professional	BIM Coordinator	Document Processing	Total Hours				Principal	Associate	Project Coord.	Total Hours	Expenses	Total for Sub	Principal	Mechanical Engineer	Mechanical Designer	CAD Manager	Total Hours	Expenses	Total for Sub
2024 Rates	\$311.22	\$289.63	\$271.92	\$271.64	\$269.33	\$165.32	\$281.17	\$206.71	\$311.22	\$311.22	\$156.49	\$190.90	\$269.00	\$311.22	\$311.22	\$206.00	\$152.37	\$141.73	\$246.36	\$105.85					\$261.20	\$187.14	\$136.72				\$238.97	\$181.18	\$111.15	\$126.71			

PHASE 100 - PROJECT DEVELOPMENT

PHASE 200 - PRE-DESIGN

TASK 1006 - If needed Blower Pre-purchase Assistance and Submittal Review	8	24	4	8	8	8	6	48	8	48	8	48	48	8	42	8	8	8	8	244	\$36,492	\$0	\$36,492	8	8	8	8	\$0	\$0	8	8	8	8	8	8	\$0	\$0
TASK 1008 - Facilitate BES Evaluation of Design with and without MCP	4	16	0	0	0	0	0	0	0	0	0	0	0	0	8	0	0	0	0	28	\$7,527	\$0	\$7,527	0	0	0	0	\$0	\$0	0	0	0	0	0	0	\$0	\$0
TASK 1009 - EIC Site Visits and Coordination Meetings	8	0	0	0	0	0	0	0	0	20	0	0	20	0	8	0	0	0	0	56	\$15,742	\$2,400	\$18,142	0	0	0	0	\$0	\$0	0	0	0	0	0	0	\$0	\$0

PHASE 300 - DESIGN

TASK 1119 - SKM Model Review and Coordination	10	0	0	0	0	0	0	0	0	18	0	0	0	0	0	0	0	0	0	28	\$8,714	\$0	\$8,714	0	0	0	0	\$0	\$0	0	0	0	0	0	0	\$0	\$0	
TASK 1120 - Gravity Strengthening, 2nd Floor Access Platform/Stair, and 1st Floor Opening Guard Rail	16	0	0	0	0	0	0	0	0	0	0	0	0	32	32	0	0	0	0	80	\$21,531	\$0	\$21,531	0	0	0	0	\$0	\$0	0	0	0	0	0	0	\$0	\$0	
TASK 1121 - Structural Building Repair	8	0	0	0	0	0	0	0	0	0	0	0	0	16	16	0	0	0	0	40	\$10,765	\$0	\$10,765	0	0	0	0	\$0	\$0	0	0	0	0	0	0	\$0	\$0	
TASK 1122 - Corridor 7 Modifications	8	0	40	0	0	0	0	0	0	24	43	50	0	0	40	24	0	0	4	233	\$49,430	\$0	\$49,430	0	0	0	0	\$0	\$0	0	0	0	0	0	0	\$0	\$0	
TASK 1123 - Surveying for T-3 Area	5	0	0	0	6	0	0	0	0	1	0	0	0	0	0	0	0	1	3	33	\$7,930	\$6,306	\$14,236	0	0	0	0	\$0	\$0	0	0	0	0	0	0	\$0	\$0	
TASK 1124 - T-3 and 12KV Primary Side Switchgear Design Modifications	8	0	0	0	40	40	16	0	0	62	92	128	0	0	18	0	0	68	60	8	\$107,481	\$0	\$107,481	0	0	0	0	\$0	\$0	0	0	0	0	0	0	\$0	\$0	
TASK 1125 - Aeration Basin Influent Channel Grating and Support Beam Replacement	8	0	0	0	0	0	0	0	0	0	0	0	0	0	20	0	0	0	0	28	\$6,610	\$0	\$6,610	0	0	0	0	\$0	\$0	0	0	0	0	0	0	\$0	\$0	
TASK 1126 - Aeration Basin MOV Control Strategy	8	64	0	0	0	0	0	0	0	0	0	0	0	0	8	0	0	0	0	80	\$22,674	\$0	\$22,674	0	0	0	0	\$0	\$0	0	0	0	0	0	0	\$0	\$0	
TASK 1127 - Voluntary Seismic Upgrades Design (Allowance)										To Be Determined										0	\$0	\$0					TBD		\$0	\$0							\$0	\$0
TASK 1128 - Tunnel Electrical and Instrumentation Modifications	0	0	0	0	0	0	0	0	0	79	62	59	0	0	0	0	23	0	0	223	\$49,056	\$0	\$49,056	0	0	0	0	\$0	\$0	0	0	0	0	0	0	\$0	\$0	
TASK 1129 - Design Contingency (Allowance)										To Be Determined										0	\$0	\$0					TBD		\$0	\$0							\$0	\$0

PHASE 400 - PROCUREMENT SUPPORT SERVICES

TASK 101 - Project Management Activities	36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	36	0	0	0	0	72	\$18,620	\$0	\$18,620	0	0	0	0	\$0	\$0	0	0	0	0	\$0	\$0					
TASK 1205 - Coordinate CM/GC Cost Estimating Methodology	2	4	0	0	0	0	0	0	0	0	0	0	0	4	0	8	0	0	0	18	\$4,674	\$0	\$4,674	0	0	0	0	\$0	\$0	0	0	0	0	0	\$0	\$0					
TASK 1206 - Cost Reconciliation at 60 and 90% Design	8	16	0	0	0	0	0	8	0	0	8	0	0	16	0	24	0	0	0	80	\$21,786	\$0	\$21,786	0	0	0	0	\$0	\$0	4	4	0	0	8	\$200	\$1,689					
TASK 1207 - Cost Savings Identification Support	18	52	10	0	10	0	10	0	0	28	0	0	4	10	0	42	0	0	0	184	\$50,441	\$0	\$50,441	0	0	0	0	\$0	\$0	8	8	0	0	16	\$400	\$3,377					
TASK 1208 - Respond to CM/GC design comments at 60 and 90% Deliverable	0	20	10	0	10	0	10	0	0	20	0	0	10	0	0	20	0	0	20	120	\$31,978	\$0	\$31,978	0	0	0	0	\$0	\$0	0	8	0	0	8	\$100	\$1,457					
TASK 1209 - DIV 0/1 coordination with the CM/GC for procurement package and final design	28	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30	0	0	0	58	\$14,894	\$0	\$14,894	0	0	0	0	\$0	\$0	0	0	0	0	0	0	\$0	\$0				
TASK 1210 - Equipment Procurement Package Coordination with CM/GC	8	4	4	0	0	0	0	0	0	4	0	0	0	0	0	12	0	0	0	32	\$8,453	\$0	\$8,453	0	0	0	0	\$0	\$0	0	0	0	0	0	0	\$0	\$0				
TASK 1211 - Develop Procurement Package (existing budget from Task 1006 to be moved to Task 1200)	8	24	4	0	0	0	0	6	40	0	40	0	0	40	40	12	0	0	0	214	\$36,432	\$0	\$36,432	0	0	0	0	\$0	\$0	0	0	0	0	0	0	\$0	\$0				
TASK 1212 - Evaluate Guaranteed Maximum Price 1 and 2	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8	0	0	0	16	\$4,138	\$0	\$4,138	0	0	0	0	\$0	\$0	0	0	0	0	0	0	\$0	\$0				
TASK 1213 - Procurement Contingency (Allowance)										To Be Determined										0					\$0	\$0														\$0	\$0

PHASE 500 - CONSTRUCTION SUPPORT SERVICES

TASK 1302 - Site Visits / necessary observations including those for ORSSC and final walk through	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10	0	0	0	0	10	\$2,060	\$0	\$2,060	0	0	0	0	\$0	\$0	0	0	0	0	\$0	\$0												
TASK 1303 - Submittal Reviews	0	4	0	0	14	8	0	0	0	0	4	24	0	0	0	6	4	0	10	4	78	\$16,346	\$0	\$16,346	0	0	0	0	\$0	\$0	0	0	0	0	0	0	\$0	\$0										
TASK 1304 - RFI Review/Responses	0	0	0	0	6	2	0	0	0	0	4	16	0	0	0	0	4	0	8	0	40	\$7,653	\$0	\$7,653	0	0	0	0	\$0	\$0	0	0	0	0	0	0	\$0	\$0										
TASK 1306/1307 - DC and CO Proposal Support	2	2	0	0	6	2	0	0	0	0	4	6	0	0	0	0	8	0	4	0	34	\$7,547	\$0	\$7,547	0	0	0	0	\$0	\$0	0	0	0	0	0	0	\$0	\$0										
TASK 1310 - Voluntary Seismic Upgrades Construction Contingency (Allowance)											To Be Determined										0	\$0	\$0	\$0	TBD										\$0	\$0	TBD										\$0	\$0
TASK 1311 - Construction Contingency (Allowance)											To Be Determined										0	\$0	\$0	\$0	TBD										\$0	\$0	TBD										\$0	\$0

TOTAL

Carollo Direct Costs:	Amount
Airfare, two new trips from various locations	\$1,200
Hotels, estimated 2 nights	\$350
Meals per diem, estimated 4 days	\$300
Rental Car, estimated 4 days	\$400
Parking/Taxi/Mileage	\$150
Pathology	\$6,306
Total	\$8,706

Emerio Direct Costs:	Amount
Underground Utility Locate Service (Applied Professional Services (APS))	\$1,015

Greenbusch Direct Costs:	Amount
Mileage (600 miles@50.67)	\$400
Parking	\$20
Hotel	\$280

SEPT Direct Costs:	Amount
Document Reproduction Standard Size (47,500 pages +/- 1000 pages per month) @ \$0.06 per page)	\$2,850
Document Reproduction Large Format (450 pages @ \$3.00 per page)	\$1,350

### Exhibit B Contract Budget Detail

[illegible]



30007680 Carollo Engineering, Inc.

Amendment 4

Exhibit B Contract Budget Detail

Labor Classification							Perimon Group			Concise Communications									SEFT																Emerio	
	Project Manager	Cad Technician III	Cad Technician II	Cad Technician I	Total Hours	Expenses	Total for Sub	Technical Editor	Total Hours	Expenses	Sub-total	Principal	Lead Eng.	Project Engineer	Design Engineer	Designer	Total Hours	Expenses	Total for Sub	Principal	QA/QC	Arch 2	Drafter	Total Hours	Expenses	Sub-total	Survey Senior Project Manager VIII	Survey Operations Coordinator IV	Survey Technician III (3)	Survey Technician - Field III (II) (Crew Chief)	Survey Technician - Field III (II)	Survey Technician - Field II	Project Coordinator	Total Hours	Expenses	Total for Sub
Project Role																																				
2024 Rates	\$167.50	\$129.37	\$114.01	\$98.65				\$105.59				\$233.42	\$216.74	\$182.96	\$161.17	\$138.94				\$192.14	\$168.38	\$108.47	\$90.90				\$189.51	\$151.61	\$151.61	\$130.93	\$130.93	\$103.37	\$100.04			

PHASE 100 - PROJECT DEVELOPMENT

PHASE 200 - PRE-DESIGN

TASK 1006 - If needed Blower Pre-purchase Assistance and Submittal Review	2	8	8	8	40	\$8	\$1,233	8	8	8	\$8	\$8	8	24	8	8	8	24	\$8	\$4,688	8	8	8	8	8	\$8	\$8	8	8	8	8	8	8	8	8	\$8	\$8
TASK 1008 - Facilitate BES Evaluation of Design with and without MCP	0	0	0	0	0	\$0	\$0	0	0	\$0	\$0	0	0	0	0	0	0	0	\$0	\$0	0	0	0	0	0	\$0	\$0	0	0	0	0	0	0	0	0	\$0	\$0
TASK 1009 - EIC Site Visits and Coordination Meetings	0	0	0	0	0	\$0	\$0	0	0	\$0	\$0	0	0	0	0	0	0	0	\$0	\$0	0	0	0	0	0	\$0	\$0	0	0	0	0	0	0	0	0	\$0	\$0

PHASE 300 - DESIGN

TASK 1119 - SKM Model Review and Coordination	0	0	0	0	0	\$0	\$0	0	0	\$0	\$0	0	0	0	0	0	\$0	\$0	0	0	0	0	0	0	\$0	\$0	0	0	0	0	0	0	0	\$0	\$0		
TASK 1120 - Gravity Strengthening, 2nd Floor Access Platform/Stair, and 1st Floor Opening Guard Rail	0	0	0	0	0	\$0	\$0	0	0	\$0	\$0	55	126	212	287	156	836	\$1,500	\$148,365	0	0	0	0	0	0	\$0	\$0	0	0	0	0	0	0	0	\$0	\$0	
TASK 1121 - Structural Building Repair	0	0	0	0	0	\$0	\$0	0	0	\$0	\$0	23	52	68	62	46	251	\$475	\$45,939	0	0	0	0	0	0	\$0	\$0	0	0	0	0	0	0	0	\$0	\$0	
TASK 1122 - Corridor 7 Modifications	0	0	0	0	0	\$0	\$0	0	0	\$0	\$0	19	45	57	84	48	253	\$450	\$45,274	10	15	48	0	0	73	\$0	\$9,654	0	0	0	0	0	0	0	0	\$0	\$0
TASK 1123 - Surveying for T-3 Area	0	0	0	0	0	\$0	\$0	0	0	\$0	\$0	0	0	0	0	0	0	\$0	\$0	0	0	0	0	0	\$0	\$0	4	7	10	8	17	17	3	66	\$1,015	\$9,681	
TASK 1124 - T-3 and 12kV Primary Side Switchgear Design Modifications	0	0	0	0	0	\$0	\$0	0	0	\$0	\$0	0	0	0	0	0	0	\$0	\$0	0	0	0	0	0	\$0	\$0	0	0	0	0	0	0	0	0	\$0	\$0	
TASK 1125 - Aeration Basin Influent Channel Grating and Support Beam Replacement	0	0	0	0	0	\$0	\$0	0	0	\$0	\$0	18	47	57	66	58	246	\$450	\$43,963	0	0	0	0	0	0	\$0	\$0	0	0	0	0	0	0	0	0	\$0	\$0
TASK 1126 - Aeration Basin MOV Control Strategy	0	0	0	0	0	\$0	\$0	0	0	\$0	\$0	0	0	0	0	0	0	\$0	\$0	0	0	0	0	0	\$0	\$0	0	0	0	0	0	0	0	0	\$0	\$0	
TASK 1127 - Voluntary Seismic Upgrades Design (Allowance)			TBD			\$0	\$0	TBD	0	\$0	\$0			TBD			0	\$0	\$0			TBD			0	\$0	\$0			TBD				0	\$0	\$0	
TASK 1128 - Tunnel Electrical and Instrumentation Modifications	0	0	0	0	0	\$0	\$0	0	0	\$0	\$0	0	0	0	0	0	0	\$0	\$0	0	0	0	0	0	\$0	\$0	0	0	0	0	0	0	0	0	\$0	\$0	
TASK 1129 - Design Contingency (Allowance)			TBD			\$0	\$0	TBD	0	\$0	\$0			TBD			0	\$0	\$0			TBD			0	\$0	\$0			TBD				0	\$0	\$0	

PHASE 400 - PROCUREMENT SUPPORT SERVICES

TASK 101 - Project Management Activities	0	0	0	0	0	\$0	\$0	0	0	\$0	\$0	0	0	0	0	0	0	\$0	\$0	0	0	0	0	0	\$0	\$0	0	0	0	0	0	0	0	0	\$0	\$0
TASK 1205 - Coordinate CM/GC Cost Estimating Methodology	0	0	0	0	0	\$0	\$0	0	0	\$0	\$0	0	0	0	0	0	0	\$0	\$0	0	0	0	0	0	\$0	\$0	0	0	0	0	0	0	0	0	\$0	\$0
TASK 1206 - Cost Reconciliation at 60 and 90% Design	0	0	0	0	0	\$0	\$0	0	0	\$0	\$0	4	16	0	0	0	20	\$100	\$4,502	0	0	0	0	0	\$0	\$0	0	0	0	0	0	0	0	0	\$0	\$0
TASK 1207 - Cost Savings Identification Support	0	0	0	0	0	\$0	\$0	0	0	\$0	\$0	6	34	0	0	0	40	\$100	\$8,870	0	0	0	0	0	\$0	\$0	0	0	0	0	0	0	0	0	\$0	\$0
TASK 1208 - Respond to CM/GC design comments at 60 and 90% Deliverable	0	0	0	0	0	\$0	\$0	0	0	\$0	\$0	8	24	0	0	0	32	\$75	\$7,144	0	0	0	0	0	\$0	\$0	0	0	0	0	0	0	0	0	\$0	\$0
TASK 1209 - DIV 0/1 coordination with the CM/GC for procurement package and final design	0	0	0	0	0	\$0	\$0	0	0	\$0	\$0	0	0	0	0	0	0	\$0	\$0	0	0	0	0	0	\$0	\$0	0	0	0	0	0	0	0	0	\$0	\$0
TASK 1210 - Equipment Procurement Package Coordination with CM/GC	0	0	0	0	0	\$0	\$0	0	0	\$0	\$0	0	0	0	0	0	0	\$0	\$0	0	0	0	0	0	\$0	\$0	0	0	0	0	0	0	0	0	\$0	\$0
TASK 1211 - Develop Procurement Package (existing budget from Task 1006 to be moved to Task 1200)	2	8	0	0	10	\$0	\$1,233	0	0	\$0	\$0	0	24	0	0	0	24	\$0	\$5,202	0	0	0	0	0	\$0	\$0	0	0	0	0	0	0	0	0	\$0	\$0
TASK 1212 - Evaluate Guaranteed Maximum Price 1 and 2	0	0	0	0	0	\$0	\$0	0	0	\$0	\$0	0	0	0	0	0	0	\$0	\$0	0	0	0	0	0	\$0	\$0	0	0	0	0	0	0	0	0	\$0	\$0
TASK 1213 - Procurement Contingency (Allowance)			TBD			\$0	\$0	TBD	0	\$0	\$0			TBD			0	\$0	\$0			TBD			0	\$0	\$0			TBD				0	\$0	\$0

PHASE 500 - CONSTRUCTION SUPPORT SERVICES

TASK 1302 - Site Visits / necessary observations including those for ORSSC and final walk through	0	0	0	0	0	\$0	\$0	0	0	\$0	\$0	8	32	58	34	0	132	\$650	\$25,545	0	0	0	0	0	\$0	\$0	0	0	0	0	0	0	0	\$0	\$0	
TASK 1303 - Submittal Reviews	0	0	0	0	0	\$0	\$0	0	0	\$0	\$0	4	8	24	70	24	130	\$400	\$22,075	1	2	3	0	6	\$0	\$854	0	0	0	0	0	0	0	0	\$0	\$0
TASK 1304 - RFI Review/Responses	0	0	0	0	0	\$0	\$0	0	0	\$0	\$0	4	30	50	80	36	200	\$0	\$34,479	0	1	3	0	4	\$0	\$494	0	0	0	0	0	0	0	0	\$0	\$0
TASK 1306/1307 - DC and CO Proposal Support	0	0	0	0	0	\$0	\$0	0	0	\$0	\$0	2	8	16	24	0	50	\$0	\$8,996	0	0	0	0	0	\$0	\$0	0	0	0	0	0	0	0	0	\$0	\$0
TASK 1310 - Voluntary Seismic Upgrades Construction Contingency (Allowance)			TBD			\$0	\$0	TBD	0	\$0	\$0			TBD			0	\$0	\$0			TBD			0	\$0	\$0			TBD				0	\$0	\$0
TASK 1311 - Construction Contingency (Allowance)			TBD			\$0	\$0	TBD	0	\$0	\$0			TBD			0	\$0	\$0			TBD			0	\$0	\$0			TBD				0	\$0	\$0

TOTAL

30007680 Carollo Engineering, Inc.  
Amendment 4  
Exhibit B Contract Budget Detail

	Sub-total, all subs	Total Sub Markup (5%)	Total Subs	Total Charges	Escalation			
Labor Classification								
Project Role								
2024 Rates								
						Original Contract	Amend Amount	Revised Contract
PHASE 100 - PROJECT DEVELOPMENT						\$1,289,369	\$0	\$1,289,369
PHASE 200 - PRE-DESIGN						\$862,697	-\$37,636	\$825,061
TASK 1006 - If needed Blower Pre-purchase Assistance and Submittal Review	\$25,593	\$1,280	\$26,872	\$63,305	\$0	\$63,305	-\$63,305	-\$63,305
TASK 1008 - Facilitate BES Evaluation of Design with and without MCP	\$0	\$0	\$0	\$7,527	\$0	\$0	\$7,527	\$7,527
TASK 1009 - EIC Site Visits and Coordination Meetings	\$0	\$0	\$0	\$18,142	\$0	\$0	\$18,142	\$18,142
PHASE 300 - DESIGN						\$2,079,911	\$1,330,274	\$3,410,185
TASK 1119 - SKM Model Review and Coordination	\$0	\$0	\$0	\$8,714	\$349	\$0	\$9,063	\$9,063
TASK 1120 - Gravity Strengthening, 2nd Floor Access Platform/Stair, and 1st Floor Opening Guard Rail	\$148,365	\$7,418	\$155,784	\$177,314	\$7,093	\$0	\$184,407	\$184,407
TASK 1121 - Structural Building Repair	\$45,939	\$2,297	\$48,236	\$59,002	\$2,360	\$0	\$61,362	\$61,362
TASK 1122 - Corridor 7 Modifications	\$54,928	\$2,746	\$57,675	\$107,105	\$4,284	\$0	\$111,389	\$111,389
TASK 1123 - Surveying for T-3 Area	\$9,681	\$484	\$10,165	\$24,401	\$976	\$0	\$25,377	\$25,377
TASK 1124 - T-3 and 12kV Primary Side Switchgear Design Modifications	\$6,291	\$315	\$6,605	\$114,086	\$4,563	\$0	\$118,650	\$118,650
TASK 1125 - Aeration Basin Influent Channel Grating and Support Beam Replacement	\$43,963	\$2,198	\$46,161	\$52,771	\$2,111	\$0	\$54,882	\$54,882
TASK 1126 - Aeration Basin MOV Control Strategy	\$0	\$0	\$0	\$22,674	\$907	\$0	\$23,581	\$23,581
TASK 1127 - Voluntary Seismic Upgrades Design (Allowance)	\$0	\$0	\$0	\$400,000	\$0	\$0	\$400,000	\$400,000
TASK 1128 - Tunnel Electrical and Instrumentation Modifications	\$37,129	\$1,856	\$38,986	\$88,042	\$3,522	\$0	\$91,564	\$91,564
TASK 1129 - Design Contingency (Allowance)	\$0	\$0	\$0	\$250,000	\$0	\$0	\$250,000	\$250,000
PHASE 400 - PROCUREMENT SUPPORT SERVICES						\$91,741	\$319,898	\$411,639
TASK 101 - Project Management Activities	\$0	\$0	\$0	\$18,620	\$745	\$19,051	\$19,365	\$38,416
TASK 1205 - Coordinate CM/GC Cost Estimating Methodology	\$0	\$0	\$0	\$4,674	\$187	\$0	\$4,861	\$4,861
TASK 1206 - Cost Reconciliation at 60 and 90% Design	\$10,938	\$547	\$11,485	\$33,272	\$1,331	\$0	\$34,603	\$34,603
TASK 1207 - Cost Savings Identification Support	\$15,421	\$771	\$16,193	\$66,634	\$2,665	\$0	\$69,299	\$69,299
TASK 1208 - Respond to CM/GC design comments at 60 and 90% Deliverable	\$10,189	\$509	\$10,698	\$42,677	\$1,707	\$0	\$44,384	\$44,384
TASK 1209 - DIV 0/1 coordination with the CM/GC for procurement package and final design	\$0	\$0	\$0	\$14,894	\$596	\$0	\$15,490	\$15,490
TASK 1210 - Equipment Procurement Package Coordination with CM/GC	\$0	\$0	\$0	\$8,453	\$338	\$0	\$8,791	\$8,791
TASK 1211 - Develop Procurement Package (existing budget from Task 1006 to be moved to Task 1200)	\$28,309	\$1,415	\$29,724	\$66,156	\$2,646	\$0	\$68,802	\$68,802
TASK 1212 - Evaluate Guaranteed Maximum Price 1 and 2	\$0	\$0	\$0	\$4,138	\$166	\$0	\$4,303	\$4,303
TASK 1213 - Procurement Contingency (Allowance)	\$0	\$0	\$0	\$50,000	\$0	\$0	\$50,000	\$50,000
PHASE 500 - CONSTRUCTION SUPPORT SERVICES						\$750,537	\$349,899	\$1,100,436
TASK 1302 - Site Visits / necessary observations including those for ORSSC and final walk through	\$25,545	\$1,277	\$26,822	\$28,882	\$4,250	\$0	\$33,132	\$33,132
TASK 1303 - Submittal Reviews	\$22,929	\$1,146	\$24,076	\$40,422	\$5,948	\$0	\$46,370	\$46,370
TASK 1304 - RFI Review/Responses	\$34,973	\$1,749	\$36,722	\$44,375	\$6,529	\$0	\$50,904	\$50,904
TASK 1306/1307 - DC and CO Proposal Support	\$8,996	\$450	\$9,446	\$16,993	\$2,500	\$0	\$19,493	\$19,493
TASK 1310 - Voluntary Seismic Upgrades Construction Contingency (Allowance)	\$0	\$0	\$0	\$100,000	\$0	\$0	\$100,000	\$100,000
TASK 1311 - Construction Contingency (Allowance)	\$0	\$0	\$0	\$100,000	\$0	\$0	\$100,000	\$100,000
TOTAL						\$5,074,255	\$1,962,435	\$7,036,689

### Exhibit C - Consultants Hourly Rate Table

<b>Carollo Engineers, Inc</b>		
<b>Labor Classification</b>	<b>2024-2025 Hourly Billing Rate</b>	<b>Multiplier</b>
Senior Professional / Principal	\$277.88 - \$311.22	Less than 3.1
Senior PM	\$255.65 - \$277.88	3.1 or less
Senior Project Professional	\$255.65 - \$277.88	3.1
Lead Project Professional	\$222.3 - \$255.65	3.1
Project Professional	\$188.96 - \$222.3	3.1
Professional	\$155.61 - \$200.07	3.1
Assistant Professional	\$122.27 - \$155.61	3.1
BIM Manager	\$222.3 - \$260.091	3.1
Senior Technicians	\$188.96 - \$222.3	3.1
Technicians	\$144.5 - \$188.96	3.1
<b>*Junior Technician</b>	<b>\$95 - \$144.50</b>	<b>3.1</b>
Document Processing	\$92 - \$127.82	3.1
<b>*New Labor Classification</b>		

<b>The Formation Lab (WBE/DBE/ESB #12434)</b>		
<b>Labor Classification</b>	<b>2024-2025 Hourly Billing Rate</b>	<b>Multiplier</b>
Principal	\$261.20	2.4
Associate	\$187.14	3.1
Project Coordinator	\$136.72	3.1

<b>The Greenbusch Group, Inc (WBE #638)</b>		
<b>Labor Classification</b>	<b>2024-2025 Hourly Billing Rate</b>	<b>Multiplier</b>
Principal	\$220.08 - \$252.31	2.71
Mechanical Engineer	\$167.84 - \$194.51	2.71
Mechanical Designer	\$86.7 - \$144.5	2.71
CADD	\$102.26 - \$126.71	2.71

<b>Emerio Design, LLC (MBE/DBE #5611)</b>		
<b>Labor Classification</b>	<b>2024-2025 Hourly Billing Rate</b>	<b>Multiplier</b>
Sr PLS II	\$145.79 - \$183.4	3.1
Sr. Survey Tech II	\$144.72 - \$150.05	3.1
Two Person Crew	\$166.73 - \$194.51	3.1
Sr. Survey Tech I	\$99.92 - \$133.38	3.1
Project Coordinator	\$99.92 - \$100.04	3.1
One Person Crew	\$124.04 - \$166.73	3.1
Three Person Crew	\$222.3 - \$255.65	3.1
Survey Senior Project Manager VIII	\$145.79 - \$189.51	3.1

<b>Emerio Design, LLC (MBE/DBE #5611)</b>		
<b>Labor Classification</b>	<b>2024-2025 Hourly Billing Rate</b>	<b>Multiplier</b>
Survey Project Manager VII	\$145.79 - \$165.39	3.1
Project Land Surveyor V	\$137.82 - \$141.27	3.1
Survey Operations Coordinator IV	\$144.72 - \$151.61	3.1
Project Land Surveyor VI	\$137.82 - \$141.27	3.1
Survey Technician III (3)	\$113.7 - \$151.61	3.1
Survey Technician III (2)	\$141.27 - \$141.27	3.1
Survey Technician III (1)	\$130.93 - \$130.93	3.1
Survey Technician II	\$130.93 - \$130.93	3.1
Survey Technician I	\$124.04 - \$124.04	3.1
Survey Technician – Field III (3)	\$130.93 - \$130.93	3.1
Survey Technician – Field III (2)	\$124.04 - \$124.04	3.1
Survey Technician – Field III (1)	\$108.54 - \$110.26	3.1
Survey Technician – Field II	\$96.48 - \$103.37	3.1
Survey Technician – Field I	\$68.91 - \$75.8	3.1
Survey Intern	\$58.58 - \$68.91	3.1

<b>Elcon Associates, Inc. (MBE/DBE #9251)</b>		
<b>Labor Classification</b>	<b>2024-2025 Hourly Billing Rate</b>	<b>Multiplier</b>
Principal	\$245.65 - \$277.88	2.77
Project Manager 2	\$215.63 - \$245.65	2.77
Project Manager 1	\$200.07 - \$215.63	2.77
Senior Engineer 3	\$178.96 - \$196.73	2.77
Senior Engineer 2	\$160.05 - \$177.84	2.77
Senior Engineer 1	\$138.94 - \$160.05	2.77
Engineer 2	\$123.38 - \$137.82	2.77
Engineer 1	\$107.81 - \$123.38	2.77
Senior Designer 3	\$141.16 - \$153.39	2.77
Senior Designer 2	\$132.27 - \$140.05	2.77
Senior Designer 1	\$123.38 - \$131.16	2.77
Electrical Designer 2	\$108.93 - \$123.38	2.77
Electrical Designer 1	\$92.26 - \$107.81	2.77
<b>*CAD Technician</b>	<b>\$104.76 - \$117.18</b>	<b>2.77</b>
<b>*BIM Coordinator/Modeler</b>	<b>\$105.96 - \$118.58</b>	<b>2.77</b>
Designer Intern	\$61.13 - \$76.69	2.77
Accounting - Admin Manager	\$76.69 - \$94.48	2.77
Based on Elcon's 2020 multiplier of 2.768 (151.66% overhead and 10% fee).		
<b>*New Labor Classification</b>		

<b>NNA Landscape Architecture (MBE/DBE/ESB #11078)</b>		
<b>Labor Classification</b>	<b>2024-2025 Hourly Billing Rate</b>	<b>Multiplier</b>
Principal / Senior Landscape Architect	\$173.40	3.1
Associate Landscape Architect	\$124.49	3.1
Landscape Designer	\$95.59	3.1

<b>The Perimon CAD Group (WBE/ESB #10135)</b>		
<b>Labor Classification</b>	<b>2024-2025 Hourly Billing Rate</b>	<b>Multiplier</b>
Project Manager	\$164.23 - \$167.5	3.1
Cad Technician III	\$126.83 - \$129.37	3.1
Cad Technician II	\$111.77 - \$114.01	3.1
Cad Technician I	\$96.72 - \$98.66	3.1

<b>Concise Communications, Inc (MBE/WBE/DBE/ESB #9079)</b>		
<b>Labor Classification</b>	<b>2024-2025 Hourly Billing Rate</b>	<b>Multiplier</b>
Principal Tech Writer	\$105.59	N/A

<b>SEFT Consulting (MBE/ESB #8994)</b>		
<b>Labor Classification</b>	<b>2024-2025 Hourly Billing Rate</b>	<b>Multiplier</b>
Principal	\$233.42	3.1
Lead Engineer / Project Manager	\$216.74	3.1
Project Engineer / Associate PM	\$188.96	3.1
*Design Engineer/ <b>Structural Designer</b>	<b>\$161.17</b>	<b>3.1</b>
*Designer/ <b>Structural Drafter</b>	<b>\$138.94</b>	<b>3.1</b>
<b>*Updated Labor Classification</b>		

<b>Strongwork Architecture (ESB #1861596)</b>		
<b>Labor Classification</b>	<b>2024-2025 Hourly Billing Rate</b>	<b>Multiplier</b>
Principal Architect	\$192.14	3.1
Lead Architect	\$168.38	3.1
QA/QC Specs	\$168.38	3.1
Senior Architect/PM	\$146.69	3.1
Architect 3	\$130.16	3.1
Architect 2	\$108.47	3.1
Architect 1	\$90.90	3.1
Senior Designer	\$112.60	3.1
Designer	\$104.33	3.1
Drafter	\$90.90	3.1
Intern	\$81.61	3.1
Admin	\$81.61	3.1