



April 13, 2022

Arlington County  
Department of Environmental Services  
Facilities Design and Construction  
1400 North Uhle Street, Suite 403  
Arlington, Virginia 22201

Attn: Azar Jaymand

Dear Ms. Jaymand,

RE: Arlington County No. MA31 – Pentagon City Metro Station Second Elevator  
Pending Change Order Request 09:  
Task 8: CA - Supplemental Design Services for Mechanical System Substitution

To satisfy WMATA's new climate control requirements for elevator machine rooms and the unique constraints at the project site, an air conditioning system with an outdoor condensing unit was required for the Pentagon City Metro Station Second Elevator project.

Following the IFB Submission, STV was asked to restore a previously submitted mechanical design for review and approval by both WMATA and Arlington County. The request was made to ensure the project procurement of the mechanical system would comply with the Buy America Act; meeting Arlington County contractual requirements and addressing availability constraints of the products specified on the project three plus years ago.

Restoration of the mechanical design involves specification of readily available air handling and condenser units. These updated units have differing engineering loads than those of the older models. In addition, the size and location of the proposed equipment requires the review of connectivity, building elements, structural loading, access, system conflicts and fire life safety considerations.

We request that Arlington County please provide the STV team with a change order to the sum of \$8290.10 to cover the additional effort to restore and update the HVAC systems as previously submitted in STV's 100% Design Submission which was reviewed and approved by WMATA and Arlington County.

The STV team appreciates the opportunity provide these additional services for Arlington County. Please don't hesitate to call if there are any questions.



Sincerely,

A handwritten signature in blue ink, appearing to read "Jose Bustamante". The signature is fluid and cursive, with a large initial "J" and "B".

Jose Bustamante,  
Sr. Vice President

Encl: STV Proposal for PCO-09 Revision 0

**ARLINGTON COUNTY, VA  
PENTAGON CITY METRO STATION SECOND ELEVATOR PROJECT (MA-31)**

**STV Incorporated  
STV PROJECT NO. 4018669**

**ADDITIONAL SERVICES AUTHORIZATION  
PCO-09 Revision 1**

**TASK 8.1: SUPPLEMENTAL DESIGN SERVICES FOR RESTORATION AND UPDATE OF MECHANICAL SYSTEMS DESIGN**

**DESCRIPTION:**

Restoration of a previous mechanical design involving specification of readily available air handling and condenser units. The updated units have differing engineering loads than those of the previously approved models. In addition, the size and location of the proposed equipment requires the review of connectivity, building elements, structural loading, access, system conflicts and fire life safety considerations

**ESTIMATED COST:**

**LABOR:**

<u>Discipline</u>	<u>Hours</u>		<u>Billing Rate</u>	<u>Unit</u>	<u>Extension</u>
Quality Assurance Manger	0	@	\$278.70	per hour	\$0.00
Principal In Charge	0	@	\$237.72	per hour	\$0.00
Project Manger	8	@	\$200.42	per hour	\$1,603.37
Sr. Architect/Engineer	16	@	\$200.42	per hour	\$3,206.74
Architect/Engineer	0	@	\$135.36	per hour	\$0.00
Technician	40	@	\$87.00	per hour	\$3,479.98
<b>Total Direct Labor</b>	<b>64</b>				<b>\$8,290.10</b>

**EXPENSES:**

Other Direct Costs	\$0.00	
Subtotal	\$0.00	
<b>Total Expenses</b>	<b>\$0.00</b>	<b>\$0.00</b>

**SUBCONSULTANT:**

	\$0.00	
Subtotal	\$0.00	
Markup at 10%	\$0.00	
<b>Total Subconsultants</b>	<b>\$0.00</b>	<b>\$0.00</b>

**TOTAL ESTIMATED COST:**

**\$8,290.10**

FOR STV

  
\_\_\_\_\_  
Signature

\_\_\_\_\_  
Name

\_\_\_\_\_  
Date



## ESTIMATE OF PROFESSIONAL SERVICES

### TASK 8: CA - SUPPLEMENTAL DESIGN SERVICES FOR MECHANICAL SYSTEM SUBSTITUTION

**STV Proposal or Job Number:** 0061568 **Client Job Number** 16-133-E  
**Project Description/Location:** Pentagon City Metro Station Second Elevator Project  
**Client:** Arlington County  
**Design Assumptions:**

**TASK 8: CA - MECHANICAL SYSTEM**  
**Reviewed By/Date:** LLJ 04/08/22  
 SL 04/08/22

#### Manhours by Classification

Direct Labor Estimate:	QM	PIC	PM	Sr. A/E	A/E	TECH	CR	Total
Concept Development - N/A								-
HVAC Unit Selection - complete			0		0			-
Design Revisions to Accommodate Rooftop Unit								-
Architectural Revisions - A-102,201,301 & 503			2	8		8		18
Structural Revisions - Review weight/attachments/detail			2			4		6
Mechanical Revisions - M-001,101 & 105			2	4		14		20
Electrical Revisions- E-001,101,102 & 601			2	4		14		20
<b>Manhour Totals:</b>	0	0	8	16	0	40	0	<b>64</b>
<b>Hourly Payroll Rate:</b>	\$112.00	\$112.00	\$73.35	\$73.35	\$49.54	\$31.84	\$92.00	
<b>Budgeted Costs:</b>	\$0	\$0	\$587	\$1,174	\$0	\$1,274	\$0	

#### Other Direct Costs (ODC) Estimate:

	UNITS	UNIT COST	ITEM COST	<b>Summary</b>	
Travel (mileage), per vehicle-mile		\$ 0.540	\$ -		
Air Fare, per airline ticket		600.00	-	<b>BUDGETED COSTS:</b>	\$ 3,034.00
Ground Transport, per vehicle-trip		30.00	-	<b>EFFORT MULTIPLIER:</b>	2.7324
Meals, per person per day		30.00	-	<b>BUDGETED EFFORT:</b>	\$ 8,290.10
Lodging, per room-night		80.00	-		
Photocopies, per copy		0.10	-		
Blackline or Blue-line Prints, per sheet		0.80	-	<b>ODC:</b>	\$ -
Bond or Vellum Reproductions, per sheet		1.00	-	<b>ODC MULTIPLIER:</b>	1.00
Mylar Sepias, per sheet		10.00	-	<b>BUDGETED ODC:</b>	\$ -
Photographs, per roll (including development)		12.00	-		
Overnight Postage, per package		20.00	-		
OTHER:		-	-	<b>SUBCONSULTANTS:</b>	\$ -
OTHER:		-	-	<b>SUB MULTIPLIER:</b>	1.00
				<b>BUDGETED SUBS:</b>	\$ -
<b>SUBTOTAL ODC:</b>			<b>\$ -</b>		

#### SUBCONSULTANTS:

	ITEM COST	
Cervantes & Associates, P.C. (Survey and Utility Designation)	\$ -	
DMY Inc. (Geotechnical)	-	
VJ Associates (Estimating & Scheduling)	-	
Van Deusen & Associates (Vertical Transportation)	-	
<b>SUBTOTAL SUBS:</b>		<b>\$ -</b>
		<b>TOTAL:</b> \$ 8,290.10

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