

ARLINGTON COUNTY, VIRGINIA

**AGREEMENT NO. 20-DES-RFP-031
AMENDMENT NUMBER 09**

This **Amendment Number 09** is made on 8/4/2022, and amends **Agreement Number 20-DES-RFP-031** ("Main Agreement") dated **September 22, 2020** between **Stantec Architecture, Inc.** ("Contractor") and the **County Board of Arlington County, Virginia** ("County").

The County and the Contractor agree to amend the Main Agreement as follows:

1. AMEND EXHIBIT E, STANTEC ARCHITECTURE, INC. BEST AND FINAL OFFER, DATED AUGUST 12, 2020, AS FOLLOWS:

The Contract Amount is increased by \$137,305, in accordance with Stantec’s Professional Services Agreement Change Order No. 9 dated July 15, 2022, which is included as an attachment to this Amendment No.9. The total Contract Amount is changed from \$3,740,517 to \$3,877,822.

2. AMEND PARAGRAPH 4. CONTRACT TERM BY EXTENDING THE COMPLETION DATE OF THE CONSTRUCTION DOCUMENT PHASE BY SIX WEEKS AS FOLLOWS:

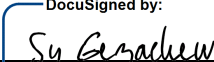
The completion of the Construction Documents Phase is hereby extended for an additional four months, in accordance with Stantec’s Professional Services Agreement Change Order No. 9 dated July 15, 2022, which is included as an attachment to this Amendment No.9. The completion date for the Construction Documents Phase is changed from June 30, 2022 to December 30, 2022.

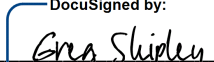
All other terms and conditions of the Main Agreement remain in effect.

WITNESS these signatures:

THE COUNTY BOARD OF ARLINGTON
COUNTY, VIRGINIA

STANTEC ARCHITECTURE, INC.

AUTHORIZED
SIGNATURE: 

AUTHORIZED
SIGNATURE: 

NAME: Sy Gezachew

NAME: Greg Shipley

TITLE: PROCUREMENT OFFICER

TITLE: Senior Associate, Senior Project Manager

DATE: 8/4/2022

DATE: 8/4/2022



PROFESSIONAL SERVICES AGREEMENT CHANGE ORDER

Develop Power Plan drawings depicting:

- a. new BEB feeder switchgear and subfeeder switchboards serving the BEB chargers
- b. feeders from the new Dominion Energy service point to the new main switchgear
- c. feeder(s) from new switchgear to the new switchboards and new subpanels
- d. circuits from new subpanels to new power cabinets
- e. circuits from power cabinets to gantry mounted pantographs
- f. new maintenance charger and circuit
- g. one line diagram
- h. panelboard schedule
- i. under canopy lighting

Civil (Timmons Group): Revisions to the Civil Engineering Permit Package to incorporate the charging station, duct banks, and other system requirements in the bus yard for permit review and approval. Timmons Group shall coordinate with Dominion Energy on the Phase 2 for the BEB design.

Electrical (GPI): Electrical design for the lighting circuitry and convenience receptacles for the battery electric bus (BEB) full design. Coordinate with the photovoltaic system vendor for conduit and site routing.

Structural (Ehlert Bryan): Include new BEB canopy structures over a majority of the bus parking areas to support hung equipment and potentially PV panels on top. The structures are expected to consist of open steel joists on steel framing that cantilevers at each end, supported by cantilevered steel columns on concrete piers. The column supports and provisions for concrete pads and/or striping and bollards to be concealed to allow bus movement.

Sustainability: Analysis of the impact of the BEB power system and associated energy draws on the current LEED scorecard.

Stantec will coordinate with the Photovoltaic Panel subcontractor who will be doing the photovoltaic design.

Total fees this Change Order		\$	137,305.00
Original agreement amount		\$	3,423,388.00
Change Order Number	<u>1</u>	\$	3,162.00
Change Order Number	<u>2</u>	\$	11,868.00
Change Order Number	<u>3</u>	\$	46,144.00
Change Order Number	<u>4</u>	\$	24,496.00
Change Order Number	<u>5</u>	\$	175,935.00
Change Order Number	<u>6</u>	\$	30,309.00
Change Order Number	<u>7</u>	\$	7,800.00
Change Order Number	<u>8</u>	\$	17,415.00
Total Agreement		\$	<u><u>3,877,822.00</u></u>

Effect on Schedule: This will advance the BEB design to 60%. A future change order will be negotiated for final design and construction administration.

Payments shall be made in accordance with the original agreement terms. All other items and conditions of the original Agreement shall remain in full force and effect.



PROFESSIONAL SERVICES AGREEMENT CHANGE ORDER

Stantec Architecture Inc.

Greg Shipley, AIA, LEED AP BD+C
Senior Associate,
Senior Project Manager

Print Name and Title

Signature



Date Signed:

7/15/2022

Arlington County Government

John Mir
Project Manager

Print Name and Title

Signature

Date Signed:

**ART Operations and Maintenance Facility
 Fee Proposal for 60% Battery Electric Bus Infrastructure Design**

Fee Proposal

Summary

Date: 7/15/2022

Company: Stantec Architecture, Inc.

Discipline: All Services

LABOR	Stantec (Project Management & Architecture)		Stantec (Lighting Design)		Stantec (Modeling)		Stantec (Electrical)		Stantec (Charging Equipment)		Stantec ICT (low-voltage systems)		Stantec (Sustainability)		Total Hours / Professional Fee	
	Hours	Fee	Hours	Fee	Hours	Fee	Hours	Fee	Hours	Fee	Hours	Fee	Hours	Fee	Hours	Fee
Phase 1																
Task 1: Design (60%)	106	\$ 17,758.00	11	\$ 1,925.00	90	\$ 14,070.00	123	\$ 21,737.00	68	\$ 12,324.00	6	\$ 1,002.00	23	\$ 3,849.00	427	\$ 72,665.00
Subtotal: Phase 1	106	\$ 17,758.00	11	\$ 1,925.00	90	\$ 14,070.00	123	\$ 21,737.00	68	\$ 12,324.00	6	\$ 1,002.00	23	\$ 3,849.00	427	\$ 72,665.00
STANTEC TOTAL: Phase 1 60% De	106	\$ 17,758.00	11	\$ 1,925.00	90	\$ 14,070.00	123	\$ 21,737.00	68	\$ 12,324.00	6	\$ 1,002.00	23	\$ 3,849.00	427	\$ 72,665.00

EXPENSES (Phase 3)		
Other	\$	-
Mileage	\$	-
Airfare	\$	-
Per Diem	\$	-
Car Rental	\$	-
Parking	\$	-
Printing	\$	-
Postage	\$	-
Total	\$	-

Phase 1: Subconsultants			
Firm	Discipline		Fee
Ehlert Bryan	Structural		\$ 39,400.00
GPI	Bldg MEP		\$ 7,800.00
Timmons Group	Civil		\$ 17,440.00
Phase 1: SUBS			\$ 64,640.00

PHASE 1 (Modeling and Design to 60%)	
TEAM STN FEE TOTAL:	\$ 72,665.00
SUBCONSULTANT TOTAL:	\$ 64,640.00
EXPENSES:	\$ -
SUBTOTAL PHASE 1 FEE:	\$ 137,305.00

**ART Operations and Maintenance Facility
 Fee Proposal for 60% Battery Electric Bus Infrastructure Design**

Fee Proposal

Summary

Date: 7/15/2022

Company: Stantec Architecture, Inc.

Discipline: Project Management & Architecture

LABOR	Principal-In-Charge		Project Manager		Architect		PM Assistant Admin		Total Hours / Professional Fee	
	Level 17		Level 14		Level 13		Level 8			
	Rate	\$ 229.00	Rate	\$ 173.00	Rate	\$ 167.00	Rate	\$ 127.00		
TASKS	Hours	Fee	Hours	Fee	Hours	Fee	Hours	Fee	Hours	Fee
Task 1: Design (60%)	2	\$ 458.00	42	\$ 7,266.00	54	\$ 9,018.00	8	\$ 1,016.00	106	\$ 17,758.00
	2	\$ 458.00	42	\$ 7,266.00	54	\$ 9,018.00	8	\$ 1,016.00	106	\$ 17,758.00

EXPENSES		
Other		\$ -
Mileage		\$ -
Airfare		\$ -
Per Diem		\$ -
Car Rental		\$ -
Parking		\$ -
Printing		\$ -
Postage		\$ -
Total		\$ -

\$ 17,758.00

**ART Operations and Maintenance Facility
 Fee Proposal for 60% Battery Electric Bus Infrastructure Design**

Fee Proposal

Summary

Date: 7/15/2022

Company: Stantec Architecture, Inc.

Discipline: Lighting Design

LABOR	Lighting Principal		Sr. Lighting Designer		Lighting Designer		Lighting Designer		QA/QC		Total Hours / Professional Fee	
	Level	16	Level	14	Level	13	Level	10	Level	15		
	Rate	\$ 219.00	Rate	\$ 173.00	Rate	\$ 167.00	Rate	\$ 143.00	Rate	\$ 191.00		
TASKS	Hours	Fee	Hours	Fee	Hours	Fee	Hours	Fee	Hours	Fee	Hours	Fee
Task 1: Design (60%)	1	\$ 219.00	6	\$ 1,038.00	4	\$ 668.00		\$ -		\$ -	11	\$ 1,925.00
	1	\$ 219.00	6	\$ 1,038.00	4	\$ 668.00	0	\$ -	0	\$ -	11	\$ 1,925.00

EXPENSES		
Other		\$ -
Mileage		\$ -
Airfare		\$ -
Per Diem		\$ -
Car Rental		\$ -
Parking		\$ -
Printing		\$ -
Postage		\$ -
Total		\$ -

\$ 1,925.00

**ART Operations and Maintenance Facility
 Fee Proposal for 60% Battery Electric Bus Infrastructure Design**

Fee Proposal

Summary

Date: 7/15/2022

Company: Stantec Architecture, Inc.

Discipline: BEB Modeling

LABOR	Transit Advisory Team David Verbich		ZEB Specialist		Transit Advisory Consultant				Total Hours / Professional Fee	
	Level 13		Level 13		Level 10		Level			
	Rate	\$ 167.00	Rate	\$ 167.00	Rate	\$ 143.00	Rate			
TASKS	Hours	Fee	Hours	Fee	Hours	Fee	Hours	Fee	Hours	Fee
Task 1: Design (60%)	4	\$ 668.00	46	\$ 7,682.00	40	\$ 5,720.00		\$ -	90	\$ 14,070.00
	4	\$ 668.00	46	\$ 7,682.00	40	\$ 5,720.00	0	\$ -	90	\$ 14,070.00

EXPENSES		
Other		\$ -
Mileage		\$ -
Airfare		\$ -
Per Diem		\$ -
Car Rental		\$ -
Parking		\$ -
Printing		\$ -
Postage		\$ -
Total		\$ -

\$ 14,070.00

**ART Operations and Maintenance Facility
 Fee Proposal for 60% Battery Electric Bus Infrastructure Design**

Fee Proposal

Summary

Date: 7/15/2022

Company: Stantec Architecture, Inc.

Discipline: Electrical Engineering

LABOR	Electrical Principal		Electrical Engineer		Senior Electrical Designer		Admin Assistant		Total Hours / Professional Fee	
	Level 16		Level 13		Level 10		Level 8			
	Rate	\$ 219.00	Rate	\$ 167.00	Rate	\$ 143.00	Rate	\$ 127.00		
TASKS	Hours	Fee	Hours	Fee	Hours	Fee	Hours	Fee	Hours	Fee
Task 1: Design (60%)	23	\$ 5,037.00	52	\$ 8,684.00	48	\$ 8,016.00		\$ -	123	\$ 21,737.00
Design Development	6	\$ 1,314.00	4	\$ 668.00	2	\$ 334.00		\$ -	12	\$ 2,316.00
Utility Coordination	4	\$ 876.00	2	\$ 334.00	3	\$ 501.00		\$ -	9	\$ 1,711.00
BEB charging single line	2	\$ 438.00	6	\$ 1,002.00	4	\$ 668.00		\$ -	12	\$ 2,108.00
MV Switchboard design	2	\$ 438.00	4	\$ 668.00	4	\$ 668.00		\$ -	10	\$ 1,774.00
Power Distribution design	2	\$ 438.00	4	\$ 668.00	4	\$ 668.00		\$ -	10	\$ 1,774.00
Charger System Interface	2	\$ 438.00	2	\$ 334.00	3	\$ 501.00		\$ -	7	\$ 1,273.00
Generator Design	2	\$ 438.00	16	\$ 2,672.00	20	\$ 3,340.00		\$ -	38	\$ 6,450.00
Electrical details	2	\$ 438.00	6	\$ 1,002.00	6	\$ 1,002.00		\$ -	14	\$ 2,442.00
Arc Flash study	1	\$ 219.00	8	\$ 1,336.00	2	\$ 334.00		\$ -	11	\$ 1,889.00
	23	\$ 5,037.00	52	\$ 8,684.00	48	\$ 8,016.00	0	\$ -	123	\$ 21,737.00

EXPENSES		
Other		\$ -
Mileage		\$ -
Airfare		\$ -
Per Diem		\$ -
Car Rental		\$ -
Parking		\$ -
Printing		\$ -
Postage		\$ -
Total		\$ -

\$ 21,737.00

**ART Operations and Maintenance Facility
 Fee Proposal for 60% Battery Electric Bus Infrastructure Design**

Fee Proposal

Summary

Date: 7/15/2022

Company: Stantec Architecture, Inc.

Discipline: Charging Equipment

LABOR	Principal (RG)		Project Engineer (FF)		BIM/Designer (RK)		Admin		Total Hours / Professional Fee	
	Level 17		Level 14		Level 10		Level 8			
	Rate	\$ 229.00	Rate	\$ 173.00	Rate	\$ 143.00	Rate	\$ 127.00		
TASKS	Hours	Fee	Hours	Fee	Hours	Fee	Hours	Fee	Hours	Fee
Task 1: Design (60%)	24	\$ 5,496.00	20	\$ 3,460.00	20	\$ 2,860.00	4	\$ 508.00	68	\$ 12,324.00
	24	\$ 5,496.00	20	\$ 3,460.00	20	\$ 2,860.00	4	\$ 508.00	68	\$ 12,324.00

EXPENSES		
Other		\$ -
Mileage		\$ -
Airfare		\$ -
Per Diem		\$ -
Car Rental		\$ -
Parking		\$ -
Printing		\$ -
Postage		\$ -
Total		\$ -

\$ 12,324.00

**ART Operations and Maintenance Facility
 Fee Proposal for 60% Battery Electric Bus Infrastructure Design**

Fee Proposal

Summary

Date: 7/15/2022

Company: Stantec Architecture, Inc.

Discipline: ICT (low-voltage systems)

LABOR	ICT PM		ICT PM		ICT Designer		Admin		Total Hours / Professional Fee	
	Level 16		Level 15		Level 13		Level 8			
	Rate	\$ 219.00	Rate	\$ 191.00	Rate	\$ 167.00	Rate	\$ 127.00		
TASKS	Hours	Fee	Hours	Fee	Hours	Fee	Hours	Fee	Hours	Fee
Task 1: Design (60%)		\$ -		\$ -	6	\$ 1,002.00		\$ -	6	\$ 1,002.00
	0	\$ -	0	\$ -	6	\$ 1,002.00	0	\$ -	6	\$ 1,002.00

EXPENSES		
Other		\$ -
Mileage		\$ -
Airfare		\$ -
Per Diem		\$ -
Car Rental		\$ -
Parking		\$ -
Printing		\$ -
Postage		\$ -
Total		\$ -

\$ 1,002.00

**ART Operations and Maintenance Facility
 Fee Proposal for 60% Battery Electric Bus Infrastructure Design**

Fee Proposal

Summary

Date: 7/15/2022

Company: Stantec Architecture, Inc.

Discipline: Sustainability

LABOR	Sustainability Principal		Sustainability Lead		Sustainability Support		Admin Assistant		Total Hours / Professional Fee	
	Level 15		Level 13		Level 10		Level 8			
	Rate	\$ 191.00	Rate	\$ 167.00	Rate	\$ 143.00	Rate	\$ 127.00		
TASKS	Hours	Fee	Hours	Fee	Hours	Fee	Hours	Fee	Hours	Fee
Task 1: Design (60%)	2	\$ 382.00	20	\$ 3,340.00		\$ -	1	\$ 127.00	23	\$ 3,849.00
	2	\$ 382.00	20	\$ 3,340.00	0	\$ -	1	\$ 127.00	23	\$ 3,849.00

EXPENSES		
Other		\$ -
Mileage		\$ -
Airfare		\$ -
Per Diem		\$ -
Car Rental		\$ -
Parking		\$ -
Printing		\$ -
Postage		\$ -
Total		\$ -

\$ 3,849.00



20110 Ashbrook Place
Suite 100
Ashburn, VA 20147

P 703.726.1342
F 703.726.1345
www.timmons.com

ADDITIONAL SERVICE NO. 3

Client:	Stantec	Date:	April 8, 2022
Contact:	Greg Shipley	Project Manager:	Osvaldo Ramos
Phone No:	703.485.8547	Phone No.:	703.554.6719
Phone No:	703.861.8632	E-mail:	osvaldo.ramos@timmons.com
E-mail:	greg.shipley@stantec.com	Project:	47032 AOMF
		Description:	BEB Infrastructure

Timmons Group (TG) has prepared this additional service proposal at the request of the Client. The additional service is required for coordination, planning, and final site plan design to accommodate the infrastructure required for battery electric buses.

Task E36: Final Layout of charging stations

TG will work with Stantec and the project design team to develop a final design demonstrating:

- the number and location of simultaneous charging stations to be supported.
- Final duct bank layout from charging infrastructure to bus charging locations.
- Locations for transformer(s), generator, and switchgear with least reduction of ART bus parking areas.

The final design(s) will be guided by the required design parameters of the charging station system as prepared by the project electrical engineer. TG will provide CADD drawings and pdfs of the exhibits to Stantec for presentation to the Client.

TG assumes all cost estimation will be completed by the project cost estimation team.

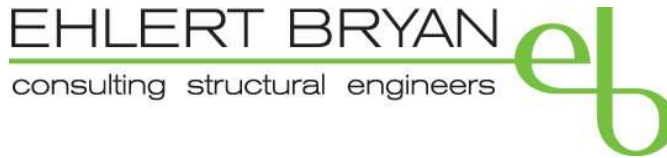
Task E38: Dominion Energy Phase 2 Coordination and Revisions to CEP Package

TG shall coordinate with Dominion Energy on the phase 2 for the BEB design. This work includes the phase 2 upgrades which is anticipated to be the pole replacements on Shirlington Road. TG Shall then revise the Civil Engineering Permit Package to incorporate the charging station, duct banks and other system requirements in the bus yard for permit review. Also, any other revisions to utilities as needed for the revised bus yard layout. The updated CEP will then be submitted to Arlington County Department of Environmental Services and Development Services Division. TG shall utilize the permit Arlington – ePlan process to submit plans for review and permit issuance and shall manage the site plan permitting for the project. This task includes the site plan submissions, comment review & responses and resubmissions until plan approval. All fees to be paid by Owner.

Project: ART Bus O&M - AS3
 Professional Services Fee Proposal MEP
 4.22.2022



Task / Hours	Principal	Project Manager	Senior Engineer	Engineer	CAD	Administrative	Total Hours	Total Fee
Construction Documents (100%)								
							0	\$ -
Electrical plans, calcs			32				32	\$ 4,801.60
							0	\$ -
							0	\$ -
PV Coordination			10				10	\$ 1,500.50
Reviews/meetings			10				10	\$ 1,500.50
Construction Administration			10				10	\$ 1,500.50
Total								\$ 9,303.10
								\$7,800.00
Total Hours	0	0	62	0	0	0		
Rates	\$ 191.71	\$ 170.98	\$ 150.05	\$ 128.41	\$ 96.31	\$ 69.79		
Total Fee	\$ -	\$ -	\$ 9,303	\$ -	\$ -	\$ -		



AGREEMENT FOR ADDITIONAL SERVICES

Date: March 31, 2022

Client: Stantec Architecture
3001 Washington Boulevard, Suite 500
Arlington, VA 22201

Attn: Mr. Greg Shipley, AIA

Project Name/Location: ART – BEB Canopy Structures
EB#:

This is to confirm our recent discussion on this project.

Description of Additional Services:

The owner is considering the addition of the infrastructure to support future Battery-Electric Buses (BEB) into the current design. Structurally, this would include new BEB canopy structures over a majority of the bus parking areas to support hung equipment and potentially PV panels on top. The structures are expected to consist of open steel joists on steel framing that cantilevers at each end, supported by cantilevered steel columns on concrete piers.

Fees:

Design and Drawings	\$ 24,500
Construction Administration	\$ 5,200

Special Conditions:

We will commence work upon receiving your authorization by executing and returning this agreement. This Additional Services Agreement is an addendum to our original Agreement and is subject to the Terms and Conditions contained therein.

Offered by:

Accepted by:

Ehlert Bryan
Consulting Engineers

Alexander P. Salmin, PE

(client)

(signature) (date)

(printed name/title)

Wayne C. Bryan, PE | Thomas A. Bouffard, PE | Jason B. Sparrow, PE, SE | Alexander P. Salmin, PE
William R. McLain, PE | Benjamin T. Gunden, PE, SE

ADDITIONAL SERVICES	EHLERT BRYAN									
Position Billing Rate	Principal	Senior Project Manager	Project Manager	Assistant Project Manager	Design Engineer	Senior BIM Technician	BIM Technician	Clerical	TOTAL Hours	TOTAL \$/Phase
	\$ 260.00	\$ 210.00	\$ 180.00	\$ 165.00	\$ 150.00	\$ 150.00	\$ 125.00	\$ 105.00		
BEB CANOPY STRUCTURES DESIGN	10		60		40	24	12		146	\$24,500
	\$2,600.00	\$0.00	\$10,800.00	\$0.00	\$6,000.00	\$3,600.00	\$1,500.00	\$0.00		
BEB CANOPY STRUCTURES CA	2		16		12				30	\$5,200
	\$520.00	\$0.00	\$2,880.00	\$0.00	\$1,800.00	\$0.00	\$0.00	\$0.00		
TOTALS									176	29,700



AGREEMENT FOR ADDITIONAL SERVICES

Date: May 23, 2022

Client: Stantec Architecture
3001 Washington Boulevard, Suite 500
Arlington, VA 22201

Attn: Mr. Greg Shipley, AIA

Project Name/Location: ART – Parking Facility Changes
EB#: 2097001.B0.V

This is to confirm our recent discussion or direction on this project.

Description of Additional Services:

It is our understanding that upon zoning review during permitting, the Parking Facility was required to move farther away from the property line. This causes the building to encroach on the existing culvert. Therefore, the design team along with the Owner agreed to decrease the footprint area of the Parking Facility to avoid conflict with the existing culvert, thereby modifying the structure in the following ways:

- The chamfered corner near grid line intersection PF/P4 was increased.
 - The slab edges, perimeter beams, and column near PF/P4 will be moved to align with the architecture.
 - The openings in the precast perimeter walls were changed at the south, east, and skewed walls.
- The elevator and Stair P1 shafts were moved west.
 - Framing along grid line P5 will be moved accordingly.
 - Beams along grid lines PA and PB will be re-analyzed.
 - Beams framing the stair opening will be revised to account for the modified configuration.
 - Openings in precast walls are to be adjusted.
 - Shear wall designs throughout the Parking Garage will be reviewed for rebalanced lateral load distribution.
- Plan layouts will be reviewed for effects on structural design.
- It is our understanding that allowances for future construction are unchanged.

We will revise our structural design and update our drawings for the changes described above.

Fees: \$14,900

Wayne C. Bryan, PE | Thomas A. Bouffard, PE | Jason B. Sparrow, PE, SE | Alexander P. Salmin, PE
William R. McLain, PE | Benjamin T. Gunden, PE, SE

8609 Westwood Center Drive | Suite 800 | Tysons, VA 22182 | Tel: 703-827-9552

www.ehlert-bryan.com

We have received verbal authorization to proceed:

By: Gabriel Hohag

Date: 05/20/2022

We have commenced work based on this verbal authorization. Please execute and return this agreement.

This Additional Services Agreement is an addendum to our original Agreement and is subject to the Standard Terms and Conditions contained therein.

Offered by:

**Ehlert Bryan
Consulting Engineers**

Accepted by:

(client)

Andrew T. Schon, PE

(signature)

(date)

(printed name/title)

CF6-12/14