

ARLINGTON COUNTY, VIRGINIA

AGREEMENT NO. 19-265-9 AMENDMENT NUMBER 7

This Amendment Number 7 is made on 9/9/2022 by the County and amends Agreement Number 19-265-9 (“Main Agreement”) dated August 12, 2019 between Sagres Construction Corporation (“Contractor”) and the County Board of Arlington County, Virginia (“County”).

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

1. Section 1: **Contract Documents**

Revise EXHIBIT B “SOUTH BUCHANAN STREET, EASTBOUND, WESTBOUND, SOUTH OAKLAND STREET WESTBOUND, SOUTH GLEBE ROAD WESTBOUND STATIONS” to include “SOUTH DINWIDDIE STREET WESTBOUND, SOUTH COLUMBUS STREET EASTBOUND, SOUTH GREENBRIER STREET EASTBOUND, WESTBOUND STATIONS.”

2. Section 3: **Scope of Work** is hereby modified to include Phase 2 of the project as follows:

- a. Removal of existing electric cabinets, furnishing and installing electric cabinets with the Dominion-approved meter pedestals at S. Glebe, Oakland, Buchanan, and Four Mile Run Stations per the attached Proposed Change Order (PCO) 15 which is incorporated into and made a part of this Amendment.
- b. Installation of shelter(s) and other amenities fabricated by Future Systems, demolition, utility adjustment, utility relocation (if any), drainage, grading, subgrade concrete bus pad, pavement, electrical, communication systems, lighting, information system, furnishings, signing, pavement marking and restorations at the additional four stations per the Revised Exhibit B and the attached PCO 19 which is incorporated into and made a part of this Amendment. Erosion and sediment control (E&S) and maintenance of traffic (MOT) shall be performed for this work.

3. Section 5: **Contract Amount**

This is a Fixed-Priced Contract Amendment in the Not-To-Exceed amount of \$913,485.64 for this portion of the work.

Below is a summary of contract amount.

AGREEMENT AMOUNT

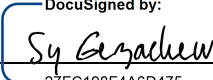
Date	Description	Amount	Comments
8/12/2019	Agreement Amount	\$1,372,250.70	
	Add-Alternate A	-\$87,300.00	Not elected - Map case, benches, and lean bar: \$87,300
	Add-Alternate C	Included	Elected - Public art: \$20,700
	Optional Items	-\$5,000.00	Not elected - Film for flag poles: \$5,000
2/26/2020	Amendment #1	-\$38,109.39	Bud pad elimination, additional windscreen (PCO1), project sequencing (PCO2)
7/31/2020	Amendment #2	\$124,863.75	Additional sawcut at Buchanan Street (PCO7) and Extended Station at Glebe Road (PCO9)
1/29/2021	Amendment #3	\$1,915.23	Mudmat Flag Foundation at Oakland Street (PCO8)
4/23/2021	Amendment #4	\$6,799.47	Delay during drilling of pier at S. Four Mile Run station (PCO10R)
4/19/2022	Amendment #5	\$23,478.86	Electrical work and relocation of existing light pole (PCO 13)
5/13/2022	Amendment #6	\$220,154.11	Storage area set up and material delivery (PCO 18)
9/9/2022	Amendment #7	\$823,541.28	Install additional four stations and modifications to complete Phase 1 stations (PCO 19)
9/9/2022	Amendment #7	\$89,944.36	Replace electric meter pedestals for four stations (PCO 15)
	Total Contract Amount	\$2,531,938.37	

- 4. This Amendment Number 7 serves as the Notice to Proceed (NTP) for the work in this Contract Amendment. The Period of Performance for Phase 2 of the project shall be extended to December 17, 2022.

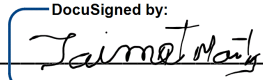
All other terms and conditions of the Main Agreement remain in effect.

WITNESS these signatures:

THE COUNTY BOARD OF ARLINGTON
COUNTY, VIRGINIA

AUTHORIZED: 
SIGNATURE: _____
NAME: Sy Gezachew
TITLE: PROCUREMENT OFFICER
DATE: 9/9/2022

SAGRES CONSTRUCTION CORPORATION

AUTHORIZED: 
SIGNATURE: _____
NAME: Jaime Martins
TITLE: President
DATE: 9/9/2022



3680 Wheeler Ave., Suite 300
Alexandria, VA 22304
(703) 924-7220
Fax: (703) 924-5145
E-mail: mailbox@sagresconstruction.com

May 12, 2022 (REV 6/3/2022)

Mr. John D. (Jay) Lawson
Program Manager
Department of Environmental Services
Facilities Design and Construction
1400 North Uhle Street, Suite 403
Arlington, Virginia 22201

**Reference: Columbia Pike Transit Stations
PCO 15 – Meter Cabinet Removal/Replacement and Additional Electrical Work R2
S. Four Mile Run Station, S. Buchanan Station, S. Oakland Station and S. Glebe Station
Contract No.: 19-265-9**

Mr. Lawson,

Sagres Construction Corporation (Sagres) is glad to submit for your consideration our **revised** detailed estimate for the cost of all additional work requested as per: (i) the summarized scope of work as detailed below; (ii) our review and understanding of the latest layout plans provided on 5/10/2022; (iii) our observations of existing site conditions; and, your responses to subcontractor's questions on 5/10/2022; and, (iv) our meeting on 6/2/2022. We have also attached the corresponding breakdown of our services as well as the subcontractor's cost proposal for your consideration. Cost proposal has been based on estimated duration (days) as stated in the attached cost proposal for each individual station:

S. Buchanan Street (Columbia Pike Westbound)

- Removal and disposal of existing meter cabinet. All circuit breakers, lighting controls and contactors for each meter cabinet will be delivered to 1400 N Uhle Street Suite 403.
- Demolition of existing concrete meter pad.
- Sawcutting and demolition of existing concrete sidewalk, brick pavers; and detectable pavers from existing meter location to proposed meter enclosure as shown in *Attachment D R1-10 – Proposed Transit Layout* provided on 5/10/2022. Sawcut will be completed along the nearest concrete joint to minimize disturbance.
- Connection to existing PVC conduit and extend 2" PVC conduit to new meter pedestal for 68 LF. This includes:
 - (i) Connection of 2" conduit from existing electric junction box to proposed meter enclosure;
 - (ii) Connection of proposed meter enclosure to existing 3" electrical conduit; and,
 - (iii) Extension of existing conduit to proposed station post.
- Installation a new meter enclosure as per *Electrical Signal Service* detailed in the *Arlington-Traffic-Signs – Electric Signal Service Std 80-01*.

- Adjust incoming conduits to enter new meter pedestal.
- Backfill trenches with gravel base and restore excavated area(s) with a 4-inch concrete sidewalk as per plans and project specifications.

S. Four Mile Run (Columbia Pike Eastbound)

- Removal and disposal of existing meter cabinet. All circuit breakers, lighting controls and contactors for each meter cabinet will be delivered to 1400 N Uhle Street Suite 403.
- Demolition of existing concrete meter pad.
- Sawcutting and demolition of existing concrete sidewalk, asphalt and brick paver from existing meter to location indicated in *Attachment D R1-10 – Proposed Transit Layout* provided on 5/10/2022. Sawcut will be completed along the nearest concrete joint to minimize disturbance sidewalk and brick pavers.
- Connection of 2” electric conduit from meter enclosure to proposed station post. Approximately 16 LF.
- Installation a new meter enclosure as per *Electrical Signal Service* detailed in the *Arlington-Traffic-Signs – Electric Signal Service Std 80-01*. New meter pedestal will be located in the same location as the cabinet.
- Adjust incoming conduits to enter new meter base
- Backfill trenches with gravel base and restore excavated area(s) with a 4-inch concrete sidewalk as per plans and project specifications.

S. Oakland Street (Columbia Pike Westbound)

- Removal and disposal of existing meter cabinet. All circuit breakers, lighting controls and contactors for each meter cabinet will be delivered to 1400 N Uhle Street Suite 403.
- Demolition of existing concrete meter pad.
- Sawcutting and demolition of existing concrete sidewalk and/or brick paver from existing meter location to location indicated in *Attachment D R1-17 – Proposed Transit Layout* provided on 5/10/2022. Sawcut will be completed along the nearest concrete joint to minimize disturbance sidewalk and brick pavers.
- Connection of: (i) existing 2” electric conduits from meter cabinet to proposed meter pedestal [16 LF]; and, (ii) existing 2-inch conduit to proposed station post [20 LF] as indicated in *Attachment D R1-17 – Proposed Transit Layout* provided on 5/10/2022
- Installation a new meter enclosure as per *Electrical Signal Service* detailed in the *Arlington-Traffic-Signs – Electric Signal Service Std 80-01*.
- Adjust incoming conduits to enter new meter base
- Backfill and restore excavated area(s) with a 4-inch concrete sidewalk as per plans and project specifications.

S. Glebe Road (Columbia Pike Westbound)

- Removal and disposal of existing meter cabinet. All circuit breakers, lighting controls and contactors for each meter cabinet will be delivered to 1400 N Uhle Street Suite 403.
- Demolition of existing concrete meter pad.
- Sawcutting and demolition of existing concrete sidewalk and/or brick paver from existing meter location to location indicated in *Attachment D R1-24 – Proposed Transit Layout* provided on 5/10/2022. Sawcut will be completed along the nearest concrete joint to minimize disturbance sidewalk and brick pavers.
- Connection of existing 2” electric conduits from meter cabinet to proposed meter pedestal [10 LF] as indicated in *Attachment D R1-24 – Proposed Transit Layout* provided on 5/10/2022
- Installation a new meter enclosure as per *Electrical Signal Service* detailed in the *Arlington-Traffic-Signs – Electric Signal Service Std 80-01*.
- Adjust incoming conduits to enter new meter base
- Backfill and restore excavated area(s) with a 4-inch concrete sidewalk as per plans and project specifications.

The cost proposal has been developed considering the following notes and exclusions:

- Personnel costs as per updated Prevailing Wages.
- Any subsequent plan revision will require a formally approved plan to provide an updated quote.
- Arlington County shall notify Arlington County Transit Authority and obtain any/all required permits to work in the selected areas.
- Arlington County shall coordinate with site developer at S. Glebe Road Station to clear any obstructions in the proposed work area before mobilization.
- Arlington County shall provide survey work for specific site locations and/or survey for all proposed associated

Cost Breakdown

Item Description	Cost
Labor, equipment and materials for concrete removal at all four (4) stations including, disposal, demolition, backfill and site restoration; as well as mobilization and traffic control	\$ 57,168.90
For Electrical Work at all stations as per plans provided on 5/10/2022, including subcontractor mobilization, removal of existing meter cabinets, preservation of all circuit breakers, lighting controls and contactors for each meter cabinet, installation of new meter pedestal, conduit installation and adjustments of conduits to enter new meter pedestal <i>(inc. Prevailing Wage and Subcontractor Markups per Contract)</i>	\$ 32,775.46
TOTAL COST FOR PCO 15	\$89,944.36

We have attached our detailed **revised** estimate and our subcontractor Change Proposal Requests for your review.

Based on the estimated time for completion of this work, we kindly request you consider a time extension of **10 days** for work completion as envisioned. Please let us know if anything else is needed to formalize this request.

Thank you in advance for your time and attention in this matter, and feel free to contact me should you have any comments or questions.

Sincerely,

Sagres Construction Corporation

A handwritten signature in black ink, appearing to read 'Cesar A. Mendoza', is written over the printed name.

Cesar A Mendoza

Project Manager

cesar@sagresconstruction.com

1014 Columbia Pike Transit Stations
Arlington, VA

PCO 15 - Meter Cabinet Removal and Electrical Work (REV 2)
(S. Glebe, S. Oakland, S. Buchanan and S. Four Mile Run Stations)

ITEM	S Buchanan St	S Oakland St	S Glebe Rd	S Four Mile Run	Totals	Unit Price	Cost
Duration (days)	2	2	1.5	1.5			
Length (ft)	60	25	6	12			
Dump truck (HR)	16	16	12	12	56.0	\$100.00	\$ 5,600.00
Dump Fee (load)	1	1	1	1	4.0	\$95.00	\$ 380.00
Excavator	16	16	12	12	56.0	\$100.00	\$ 5,600.00
Bob cat	16	16	12	12	56.0	\$47.30	\$ 2,648.80
Service Truck (hr)	16	16	12	12	56.0	\$38.86	\$ 2,176.16
Jack hammer (hr)	7.5	7.5	7.5	7.5	30.0	\$23.31	\$ 699.30
Air Compressor (hr)	7.5	7.5	7.5	7.5	30.0	\$34.48	\$ 1,034.40
Concrete Saw (hr)	5	5	3.75	3.75	17.5	\$12.00	\$ 210.00
Miscellaneous tools (hr)	16	16	12	12	56.0	\$10.00	\$ 560.00
Walk behind roller (hr)	16	16	12	12	56.0	\$24.44	\$ 1,368.64
Pick up truck	16	16	12	12	56.0	\$33.50	\$ 1,876.00
Crushed Stone 21B (ton)	8.0	2.4	3.3	3.3	17.0	\$35.00	\$ 596.30
Concrete restoration (SY)	21.33	6.22	8.89	8.89	45.3	\$108.52	\$ 4,919.57
MOT (limited)	1	1	1	1	4.0	\$1,500.00	\$ 6,000.00
Mobilization	1	1	1	1	4.0	\$1,250.00	\$ 5,000.00
Labor (4)	64	64	48	48	224.0	\$25.30	\$ 5,667.20
Operator (1)	16	16	12	12	56.0	\$42.25	\$ 2,366.00
Foreman (1)	16	16	12	12	56.0	\$48.82	\$ 2,733.92
							\$ 49,436.29
						Tax	\$ 275.79
						OH & P	\$ 7,456.81
						Total	\$ 57,168.90



Estimate Proposal

Project Information	
Project #	22306-CPTS
Title	Columbia Pike Transit Stations, Arlington, VA
Address	3680 Wheeler Ave, Suite 300
City, State, Zip	Alexandria, VA 22079
Country	

Estimate Information	
Estimate #	005
Description	Meter Enclosures Removal / Relocation
Proposal Date	12-May-2022
Valid Thru Date	11-Jun-2022

From	
Contact	Chander Bajwa
Company	Electrifiers Inc
Address	2378 Warrenton Rd
City, State, Zip	Fredericksburg, VA 22406
Country	United States
Phone	540-286-2600
Fax	

To	
Contact	Cesar Mendoza
Company	Sagres Construction Corp.
Address	3680 Wheeler Ave, Suite 300
City, State, Zip	Alexandria, VA 22079
Country	
Phone	703-924-7220
Fax	

We are pleased to quote the following labor, equipment, and materials in accordance with the plans and specifications listed above. This proposal is subject to exclusions that may be listed below.

Scope of work for the project to be constructed as depicted in the plans and details as described herein:

0: Overall Scope

Clarifications:

- All work to be performed according to the plans, specifications and project notes provided at the time of this bid.
- Prices held firm only until "proposal expires" date shown above.
- Quotation based on quantities and design information provided at time of bid.
- Contractor shall not be liable for errors or omissions in design by others, nor inadequacies of material and equipment specified or supplied by others.
- All bonding and/or special insurance requirements are supplied at additional cost.
- Survey, stakeouts and elevations to be clearly marked & verified by GC prior to placement of material and/or concrete.
- MOT & erosion controls are excluded from this proposal.
- Removal of spoils and final restoration by others.
- Cutting, patching, restoration to concrete/ asphalt surfaces and removal of rock by drilling and/or excavation is not included in our proposal.
- If a formal contract is required its conditions must not deviate from this proposal.

22306-05: Meter Enclosures Removal / Relocation

Subtotal: 28,500.40

Item #	Description	Quantity	Unit	Unit Price	Total
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Estimate Proposal

22306-05: Meter Enclosures Removal / Relocation					Subtotal: 28,500.40	
Item #	Description	Quantity	Unit	Unit Price	Total	
1	S. BUCHANAN STREET	0.	EA	0.00	0.00	
2	Mobilization	1.	EA	1,040.00	1,040.00	
3	Remove and dispose of existing meter cabinet	1.	EA	560.00	560.00	
4	Connect to existing conduit and extend 2" PVC conduit to new meter pedestal	60.	LF	35.00	2,100.00	
5	Install new meter pedestal	1.	EA	4,830.00	4,830.00	
6	Adjust Incoming conduit to enter new meter pedestal	1.	EA	616.00	616.00	
7	S. OAKLAND STREET	0.		0.00	0.00	
8	Remove and dispose of existing meter cabinet	1.	EA	560.00	560.00	
9	Install new Pedestal	1.	EA	4,830.00	4,830.00	
10	Adjust incoming conduit to enter new meter pedestal	1.	EA	644.50	644.50	
11	Connect to existing conduit and extend 2" PVC conduit to new meter pedestal location	16.	LF	35.00	560.00	
12	S. GLEBE ROAD	0.		0.00	0.00	
13	Remove and dispose of existing meter cabinet.	1.	EA	560.00	560.00	
14	Adjust incoming conduit to enter new meter base	1.	EA	562.00	562.00	
15	Install new meter pedestal	1.	EA	4,830.00	4,830.00	
16	Connect to existing conduit and extend 2" PVC to new meter pedestal location	8.	LF	35.00	280.00	
17	S. FOUR MILE RUN	0.		0.00	0.00	
18	Remove and dispose of existing meter cabinet	1.	EA	560.00	560.00	
19	Adjust incoming conduits to enter new meter base	1.	EA	577.90	577.90	
20	Install new meter pedestal	1.	EA	4,830.00	4,830.00	
21	Connect to existing conduit and extend 2" PVC conduit to new meter pedestal	16.	LF	35.00	560.00	

Estimate Total: \$28,500.40

All material is guaranteed to be as specified. All work to be completed in a workmanlike manner according to standard practices. Any alteration or deviation from above specifications involving extra costs will be executed only upon written orders, and will become an extra charge over and above the estimate. All agreements are contingent upon strikes, accidents or delays beyond our control. Owner to carry fire, flood, earthquake, and other necessary insurance. We are fully covered by Workmen's Compensation Insurance.

Authorized
Signature:

Acceptance of Proposal:

The above prices, specifications and conditions are satisfactory and hereby accepted. You are authorized to do the work as specified.

Signature: _____

Date of Acceptance: _____

Print Name: _____

From: Cesar Mendoza <Cesar@sagresconstruction.com>
Sent: Monday, August 8, 2022 12:36 PM
To: John Lawson
Subject: RE: PCO15 R1

Importance: High

EXTERNAL EMAIL

CAUTION: This email contains file attachments. Do NOT open files that you are not expecting to receive, even from known senders.

Jay,

Per G.4.e of the Arlington County General Conditions a 15% over the change order work to be performed by the Subcontractor has been added:

Subcontractor Quote	\$ 28, 500.40
Overhead and Profit (15%)	\$ 4,2754.06
Line Item in Change Order	\$ 32, 775.46

Regards,

Cesar A. Mendoza
Project Manager



500

Cesar@sagresconstruction.com
Cell: 703-855-9081
Office: 703-924-7220 ext. 1020
www.sagresconstruction.com

From: John Lawson <jlawson@arlingtonva.us>
Sent: Monday, August 8, 2022 12:10 PM
To: Cesar Mendoza <Cesar@sagresconstruction.com>
Subject: RE: PCO15 R1

Cesar,

Please show how you went from \$28,500.40 to \$32,775.46 on Electrifiers line item in your proposal.

Thanks,

Jay

From: Cesar Mendoza <Cesar@sagresconstruction.com>
Sent: Monday, August 8, 2022 11:54 AM
To: John Lawson <jlawson@arlingtonva.us>
Subject: RE: PCO15 R1

EXTERNAL EMAIL

CAUTION: This email contains file attachments. Do NOT open files that you are not expecting to receive, even from known senders.

Good Morning Jay,

Please see attached as requested. I have attached the corresponding Electrifiers, Inc quote reflective of their costs.

Regards,

Cesar A. Mendoza
Project Manager



Cesar@sagresconstruction.com
Cell: 703-855-9081
Office: 703-924-7220 ext. 1020
www.sagresconstruction.com

From: John Lawson <jlawson@arlingtonva.us>
Sent: Monday, August 8, 2022 7:45 AM
To: Cesar Mendoza <Cesar@sagresconstruction.com>
Subject: PCO15 R1

Cesar,

PCO 15R1 did not include the Electrifiers cost proposal sheet. I attached a copy from the original PCO15 which shows \$28,500.40. total subcontractor cost. Please show all the mark up applied to the subcontractors price to equal the \$32,775.46 cost shown on your proposal.

Thanks,

Jay

John D. (Jay) Lawson, Program Manager
Department of Environmental Services

Facilities Design & Construction
Arlington County
1400 N. Uhle St., Suite 403
Arlington, VA 22201
Office: 703-228-4803
Fax: 703-228-3093
Cell: 571-302-6192
jlawson@arlingtonva.us

Please note that any email sent to/from Arlington County email addresses may be subject to disclosure under the Freedom of Information Act (FOIA).





3680 Wheeler Ave., Suite 300

Alexandria, VA 22304

(703) 924-7220

Fax: (703) 924-5145

E-mail: mailbox@sagresconstruction.com

September 2, 2022

Mr. John D. (Jay) Lawson
Program Manager
Department of Environmental Services
Facilities Design and Construction
1400 North Uhle Street, Suite 403
Arlington, Virginia 22201

**Reference: Columbia Pike Transit Stations, Arlington VA
Phase 1 Stations (S. Four Mile Run EB, S. Buchanan WB, S. Oakland WB, S. Glebe)
Contract No.: 19-265-9
PCO 19.01 – Additional Work per Amendment X**

Mr. Lawson,

Sagres Construction Corporation (Sagres) is pleased to submit for your consideration our **revised** Cost Estimate for the above indicated work as requested in your *Columbia Pike Transit Stations / Contract # 19-265-9, Amendment # X / Scope of Work* provided to us on 4/28/2022, considering your responses received on 5/18/2022 (SOW) and instructions on 5/27/2022 limiting the scope of work to all stations included in Phase 1 (the email). This cost proposal has been revised to include all costs associated with electrical work as detailed in the SOW based on:

- (i) Our understanding of the plans provided to us on 4/28/2022, including Future System Integra Shelter Drawings [Attachment A], Calculations [Attachment B]; Installation Instructions [Attachment C]; Transit Site Plans for 4 stations included in Phase 1 [Attachment D];
- (ii) Manual for Installation for Bus Stations - Future Systems (5/10/2022);
- (iii) Information regarding glass installation received on 5/11/2022;
- (iv) Several site visits to confirm site conditions as depicted in the plans; and,
- (v) Instructions included in the email.

The proposed scope of work for the installation of Future System Transit Shelters as per SOW includes the following:

1. Mobilizations to individual project sites for Sagres and electrical subcontractor crews.
2. Maintenance of Traffic
3. Removal of existing asphalt and subgrade material on all station platforms and replace with 6" thick concrete slab at Oakland Street westbound. The remaining stations shall be excavated to a depth of 18" and replace the excavated material with 18" thick concrete slab. Station flag locations shall be excavated to a depth of 10" and a 6" thick x 4' x 4' slab

shall be installed. After the flags are installed, a 4" thick slab shall be installed flush with the adjacent sidewalk.

1. Provision of detectable warning - 2' wide Armor-Tile dark grey color per approved submittal on Phase 1.
2. Sidewalk reconstruction as required.
3. Bus shelters with glass panels, flagpole, seating, signage, static display and lighting for the shelters
4. Contractor to install conductor cable from meter to display and audio components of Dynamic information display systems with audio components for ADA. Display systems to be furnished and installed by WMATA)
5. Install conductor cable from meter to LED lights in shelter
6. Furnish and install Rooftop art film
7. Station Name Signage

The attached cost proposal was developed considering the following notes and exclusions:

- Costs for furniture and glass delivery to each station has been excluded, as it is currently included in PCO- 18 – *Storage Area Setup and Material Delivery*.
- Electrical Work per line items C12 - *Bus Stop Shelters and Furnishings* **as per quantities provided by Arlington County**
- Costs reflect personnel costs as per updated Prevailing Wages.
- Arlington County shall coordinate with Transportation Department for closing/relocation of each station at no cost to Sagres and notify Arlington County Transit Authority and users.
- Arlington County shall obtain any/all required permits to work in the selected areas.
- Replacement of existing asphalt will be completed to the extent and depth indicated in the Scope of Work.
- Station flag locations will be excavated to a depth of 12 inches and a 6-inch slab will be installed flush with the adjacent sidewalk.
- Adhesive anchors for furniture installation will be subject to submittal approval.
- Sagres will not be responsible for any damage to any/all furniture elements provided by Future Systems after unpacking as requested in numeral 5 of the SOW.
- Based on information provided by Future Systems, cost proposal reflects up to 2 days of installation training.
- The cost proposal has been based on the following parameters:
 - (i) Site demolition: 2 working days for stations up to 500 SF; and,
 - (ii) Site demolition: 3 working days for stations more than 500 SF
 - (iii) Concrete work: between 2 and 4 business days depending upon station dimensions
 - (iv) Bus Shelter Furniture Installation: between 2 business days for 4-bay shelters; and 4 business days for 8-bay shelters.

- (v) Electrical work required for lighting of shelters (as per page 2 of the SOW) to be completed once new pedestals are installed.
- (vi) Extent of concrete work reflective of quantities included in Attachment "E" as provided on 5/20/2022. Any discrepancies with SOW to be revised as needed.
- MOT has been estimated at 6% of contract value of this Amendment.
- Mobilization cost shall be per actual estimated rates.
- Cost for Pre-Con Survey requested on numeral 26 of the SOW has been included as part of the Site Demolition line item.
- Requested work as detailed in numerals 27, 31 and 34 as well as 42 literals "g" and "j" of the SOW have not been considered as per instructions received on 5/20/2022.

Phase 1 Total Costs for PCO 019.01	\$ 534,024.42
Currently Un-Invoiced Amount to Date	(\$379,688.57)
Total PCO	\$126,262.55

Based on the estimated time for completion of this work, we kindly request you consider a time extension of **8 weeks** from date of approval. Please let us know if anything else is needed to formalize this request.

Thank you in advance for your time and attention in this matter.



Cesar A Mendoza

Project Manager

cesar@sagresconstruction.com



3680 Wheeler Ave., Suite 300

Alexandria, VA 22304

(703) 924-7220

Fax: (703) 924-5145

E-mail: mailbox@sagresconstruction.com

September 02, 2022

Mr. John D. (Jay) Lawson
Program Manager
Department of Environmental Services
Facilities Design and Construction
1400 North Uhle Street, Suite 403
Arlington, Virginia 22201

**Reference: Columbia Pike Transit Stations, Arlington VA
Segment H&I (S. Dinwiddie WB, S Columbus EB, S. Greenbriar EB and S.
Greenbriar WB), Contract No.: 19-265-9**

Subject: PCO 19.02 – Additional Work per Amendment X

Mr. Lawson,

Sagres Construction Corporation (Sagres) is pleased to submit for your consideration our **revised** Cost Estimate for the above indicated work as requested in your *Columbia Pike Transit Stations / Contract # 19-265-9, Amendment # X/Scope of Work* provided to us on 4/28/2022, your responses received on 5/18/2022 (SOW) and instructions on 5/27/2022 limiting the scope of work to all stations included in Segment H&I (the email). This cost proposal has been prepared based on:

- (i) Our understanding of the plans provided to us on 4/28/2022, including Future System Integra Shelter Drawings [Attachment A], Calculations [Attachment B]; Installation Instructions [Attachment C]; Transit Site Plans for all 4 stations included in Segment H&I [Attachment D];
- (ii) Manual for Installation for Bus Stations - Future Systems (5/10/2022);
- (iii) Information regarding glass installation received on 5/11/2022;
- (iv) Several site visits to confirm site conditions as depicted in the plans; and,
- (v) Instructions included in the email.

The proposed scope of work for the installation of Future System Transit Shelters as per SOW includes the following:

1. Mobilizations to individual project sites for Sagres and electrical subcontractor crews.
2. Maintenance of Traffic
3. Removal of existing asphalt and subgrade material on all station platforms and replace with 6" thick concrete slab at Greenbrier Street westbound. The remaining stations shall be excavated to a depth of 18" and replace the excavated material with 18" thick concrete slab. Station flag locations shall be excavated to a depth of 10" and a 6" thick x 4' x 4' slab

shall be installed. After the flags are installed, a 4" thick slab shall be installed flush with the adjacent sidewalk.

4. Provision of 12" x12" detectable warning paver charcoal color on Segment H&I.
5. Sidewalk reconstruction and landscaping as required.
6. Bus shelters with glass panels, flagpole, seating, signage, static display and lighting for the shelters
7. Contractor to install conductor cable from meter to display and audio components of Dynamic information display systems with audio components for ADA. Display systems to be furnished and installed by WMATA)
8. Install conductor cable from meter to LED lights in shelter
9. Furnish and install Rooftop art film
10. Station Name Signage

The attached cost proposal was developed considering the following notes and exclusions:

- Costs for furniture and glass delivery to each station has been excluded, as it is currently included in PCO- 18 – *Storage Area Setup and Material Delivery*.
- Electrical Work per line items C12 - *Bus Stop Shelters and Furnishings* **as per quantities provided by Arlington County**
- Costs reflect personnel costs as per updated Prevailing Wages.
- Arlington County shall coordinate with Transportation Department for closing/relocation of each station at no cost to Sagres and notify Arlington County Transit Authority and users.
- Arlington County shall obtain any/all required permits to work in the selected areas.
- Replacement of existing asphalt will be completed to the extent and depth indicated in the Scope of Work.
- Station flag locations will be excavated to a depth of 12 inches and a 6-inch slab will be installed flush with the adjacent sidewalk.
- Landscaping work limited to seeding and bale straws along Greenbriar EB/WB stations
- Adhesive anchors for furniture installation will be subject to submittal approval.
- Sagres will not be responsible for any damage to any/all furniture elements provided by Future Systems after unpacking as requested in numeral 5 of the SOW.
- Based on information provided by Future Systems, cost proposal reflects up to 2 days of installation training.
- The cost proposal has been based on the following parameters:
 - (i) Site demolition: 2 working days for stations up to 500 SF; and,
 - (ii) Site demolition: 3 working days for stations more than 500 SF
 - (iii) Concrete work: between 2 and 4 business days depending upon station dimensions
 - (iv) Bus Shelter Furniture Installation: between 2 business days for 4-bay shelters; and 4 business days for 8-bay shelters.

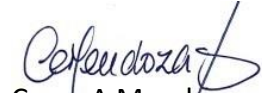
- (v) Electrical work required for energizing of shelters (as per page 2 of the SOW) to be completed once new pedestals are installed.
- (vi) Extent of concrete work reflective of quantities included in Attachment "E" as provided on 5/20/2022. Any discrepancies with SOW to be revised as needed.
- MOT has been estimated at 6% of contract value of this Amendment.
- Mobilization cost shall be per actual estimated rates.
- Cost for Pre-Con Survey requested on numeral 26 of the SOW has been included as part of the Site Demolition line item.
- Requested work as detailed in numerals 27, 31 and 34 as well as 42 literals "g" and "j" of the SOW have not been considered as per instructions received on 5/20/2022.

Total Costs for PCO – 019.02

\$ 697,278.73

Based on the estimated time for completion of this work, we kindly request you consider a time extension of **10 weeks** from date of PO issuance. Please let us know if anything else is needed to formalize this request.

Thank you in advance for your time and attention in this matter.



Cesar A Mendoza

Project Manager

cesar@sagresconstruction.com

**ITB No. 19-265-9- ATTACHMENT E - PRICE SCHEDULE - REV 2
 PRICING SHEET CONTRACT AMENDMENT
 COLUMBIA PIKE TRANSIT STATIONS - SEGMENT H&I
 GREENBRIER EB, GREENBRIER WB, DINWIDDIE WB & COLUMBUS EB**

AMENDMENT COST BREAKDOWNS

DESCRIPTION	GREENBRIER EB			GREENBRIER WB			DINWIDDIE WB			COLUMBUS EB			Total of 4 Stations		
	QTY	Unit Price	Total	QTY	Unit Price	Total	QTY	Unit Price	Total	QTY	Unit Price	Total	Unit	Total QTY	Total
4" Aggregate, VDOT #21-B (Compacted in Place per VDOT standards & Specs)	7.4	\$ 203.00	\$1,502.20	12.3	\$ 203.00	\$2,503.67	18.6	\$ 203.00	\$3,780.54	8.0	\$ 198.00	\$1,587.30	CY	46.4	\$9,373.70
Site Demolition	600	\$ 41.50	\$24,900.00	1000	\$ 41.50	\$41,500.00	1510	\$ 41.50	\$62,665.00	650	\$ 41.50	\$26,975.00	SF	3760.0	\$156,040.00
		SUBTOTAL	\$26,402.20		SUBTOTAL	\$44,003.67		SUBTOTAL	\$66,445.54		SUBTOTAL	\$28,562.30			\$165,413.70
C2. CONCRETE WORK															
Flag Sign Foundations (4' x 4' x 6") installed 4" below finished surface	1	\$ 2,204.50	\$ 2,204.50	1	\$ 2,204.50	\$ 2,204.50	1	\$ 2,204.50	\$ 2,204.50	1	\$ 2,204.50	\$ 2,204.50	EA	4.0	\$8,818.00
Complete Transit Station Platforms (6" thick reinforced concrete)	600	\$ 26.00	\$ 15,600.00	650	\$ 26.00	\$ 16,900.00	1,510	\$ 26.00	\$ 39,260.00	650	\$ 26.00	\$ 16,900.00	SF	3410.0	\$88,660.00
Complete Transit Station Platforms (10" thick reinforced concrete)	53	\$ 50.00	\$ 2,650.00	53	\$ 50.00	\$ 2,650.00	53	\$ 50.00	\$ 2,650.00	53	\$ 50.00	\$ 2,650.00	SF	212.0	\$10,600.00
Truncated Domes 12" x 12" Segment H&I	10	\$ 511.00	\$ 5,110.00	10	\$ 511.00	\$ 5,110.00	80	\$ 511.00	\$ 40,880.00	10	\$ 511.00	\$ 5,110.00	LF	110.0	\$56,210.00
Brick Band	0	\$ -	\$ -	90	\$ 153.00	\$ 13,770.00	5	\$ 153.00	\$ 765.00	0	\$ -	\$ -	LF	95.0	\$14,535.00
		SUBTOTAL	\$ 25,564.50		SUBTOTAL	\$ 40,634.50		SUBTOTAL	\$ 85,759.50		SUBTOTAL	\$ 26,864.50			\$178,823.00
C12. BUS STOP SHELTERS AND FURNISHINGS															
Assembly and Installation Transit Stations including adhesive anchors	1	\$23,172.60	\$ 23,172.60	1	\$ 44,481.80	\$ 44,481.80	1	\$ 44,481.80	\$ 44,481.80	1	\$ 44,481.80	\$ 44,481.80	EA	4.0	\$ 156,618.00
Assembly and Installation of Station Flag including adhesive anchors	1	\$ 150.00	\$ 150.00	1	\$ 150.00	\$ 150.00	1	\$ 150.00	\$ 150.00	1	\$ 150.00	\$ 150.00	EA	4.0	\$ 600.00
Assembly and Installation of Benches including expansion anchors	1	\$ 193.60	\$ 193.60	1	\$ 580.80	\$ 580.80	1	\$ 580.80	\$ 580.80	1	\$ 580.80	\$ 580.80	EA	4.0	\$ 1,936.00
2" PVC Schedule 40 Conduit	35	\$ 51.46	\$ 1,801.19	35	\$ 51.46	\$ 1,801.19	35	\$ 51.46	\$ 1,801.19	35	\$ 51.46	\$ 1,801.19	LF	140.0	\$ 7,204.75
Conductor: 2#10, 1#10 GND	40	\$ 25.01	\$ 1,000.50	290	\$ 25.01	\$ 7,253.63	300	\$ 25.01	\$ 7,503.75	35	\$ 25.01	\$ 875.44	LF	665.0	\$ 16,633.31
Conductor: 3#10, 1#4 GND	40	\$ 28.58	\$ 1,143.10	290	\$ 28.58	\$ 8,287.48	300	\$ 28.58	\$ 8,573.25	35	\$ 28.58	\$ 1,000.21	LF	665.0	\$ 19,004.04
Conductor: 10#10, 1#10 GND	40	\$ 68.43	\$ 2,737.00	290	\$ 68.43	\$ 19,843.25	300	\$ 68.43	\$ 20,527.50	35	\$ 68.43	\$ 2,394.88	LF	665.0	\$ 45,502.63
Conductor: 4#10, 1#10 GND	40	\$ 36.92	\$ 1,476.60	290	\$ 36.92	\$ 10,705.35	300	\$ 36.92	\$ 11,074.50	35	\$ 36.92	\$ 1,292.03	LF	665.0	\$ 24,548.48
Electrical Team - Mobilization	1	\$ 1,020.05	\$ 1,020.05	1	\$ 1,020.05	\$ 1,020.05	1	\$ 1,020.05	\$ 1,020.05	1	\$ 1,020.05	\$ 1,020.05	EA	4.0	\$ 4,080.20
Electrical Hookup	1	\$ 1,081.00	\$ 1,081.00	1	\$ 1,081.00	\$ 1,081.00	1	\$ 1,081.00	\$ 1,081.00	1	\$ 1,081.00	\$ 1,081.00	EA	4.0	\$ 4,324.00
		SUBTOTAL	\$ 33,775.64		SUBTOTAL	\$ 95,204.54		SUBTOTAL	\$ 96,793.84		SUBTOTAL	\$ 54,677.39			\$ 280,451.40
C13. EROSION AND SEDIMENT CONTROL WORK															
Storm Drain Inlet Protection, Gravel Curb Inlet Application (per Virginia Erosion & Sediment Control Handbook Standard & Specification 3.07)	1	\$ 367.00	\$ 367.00	1	\$ 367.00	\$ 367.00	1	\$ 367.00	\$ 367.00	1	\$ 367.00	\$ 367.00	EA	4.0	\$ 1,468.00
		SUBTOTAL	\$ 367.00		SUBTOTAL	\$ 367.00		SUBTOTAL	\$ 367.00		SUBTOTAL	\$ 367.00			\$ 1,468.00
C16. MOT AND RE-MOBILIZATION WORK															
Maintenance of Traffic (MOT)	1	\$ 5,712.22	\$ 5,712.22	1	\$ 11,525.42	\$ 11,525.42	1	\$ 16,095.33	\$ 16,095.33	1	\$ 7,261.63	\$ 7,261.63	EA	4.0	\$ 40,594.60
Mobilization - Segment H&I	1	\$ 2,500.00	\$ 2,500.00	1	\$ 2,500.00	\$ 2,500.00	1	\$ 2,500.00	\$ 2,500.00	1	\$ 2,500.00	\$ 2,500.00	EA	4.0	\$ 10,000.00
		SUBTOTAL	\$ 8,212.22		SUBTOTAL	\$ 14,025.42		SUBTOTAL	\$ 18,595.33		SUBTOTAL	\$ 9,761.63			\$ 50,594.60
SHELTER ACCESSORIES															
Station Name Signage	1	\$ 900.00	\$ 900.00	1	\$ 900.00	\$ 900.00	1	\$ 900.00	\$ 900.00	1	\$ 900.00	\$ 900.00	EA	4.0	\$ 3,600.00
		SUBTOTAL	\$ 900.00		SUBTOTAL	\$ 900.00		SUBTOTAL	\$ 900.00		SUBTOTAL	\$ 900.00			\$ 3,600.00
ADD-ALTERNATE OPTION C															
Furnish Artwork Film for roof	300	\$ 8.18	\$ 2,453.24	135	\$ 8.18	\$ 1,104.30	300	\$ 8.18	\$ 2,453.24	300	\$ 8.18	\$ 2,453.24	SF	1035.0	\$ 8,464.01
Install Artwork Film on roof	300	\$ 8.18	\$ 2,453.24	135	\$ 8.18	\$ 1,104.30	300	\$ 8.18	\$ 2,453.24	300	\$ 8.18	\$ 2,453.24	SF	1035.0	\$ 8,464.01
		SUBTOTAL	\$ 4,906.48		SUBTOTAL	\$ 2,208.60		SUBTOTAL	\$ 4,906.48		SUBTOTAL	\$ 4,906.48			\$ 16,928.03

SEGMENT H&I TOTAL	TOTAL	\$100,128.03	TOTAL	\$197,343.72	TOTAL	\$273,767.68	TOTAL	\$126,039.30	\$697,278.73
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