

**ARLINGTON COUNTY, VIRGINIA  
AGREEMENT No. 20-110-9-6**

**AMENDMENT NUMBER 2**

This **Amendment Number 2** is made on 12/21/2021 by the County and amends Agreement No. 20-110-9-6 dated January 14, 2020 made between **Ardent Company, LLC** ("Contractor") and the County Board of Arlington County, Virginia ("County").

The County and the Contractor amend the Agreement as follows:

- 1. REVISE EXHIBIT C – PRICE SCHEDULE TO INCLUDE CHANGE ORDERS (COs) 4-7 PER ATTACHMENT J** with a total amount of \$439,870 as follows:  
 CO4 : \$45,053.50  
 CO5: (\$41,662.00)  
 CO6: \$87,119.50  
 CO7: \$349,359.00

**Total Construction Cost is hereby increased to \$5,047,206.88**

2. Revise Contract Completion Date from December 22, 2021 to June 20, 2022 as a result of COs 4-7 per Attachment J.

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

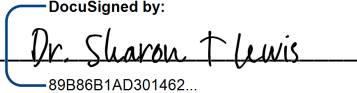
WITNESS these signatures:

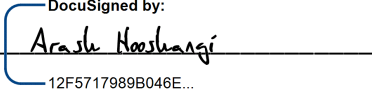
THE COUNTY BOARD OF ARLINGTON  
COUNTY, VIRGINIA

ARDENT COMPANY, LLC

PRINT: Dr. Sharon T Lewis

PRINT: Arash Hooshangi

SIGNATURE:  89B86B1AD301462...

SIGNATURE:  12F5717989B046E...

TITLE: Purchasing Agent

TITLE: Managing Director

DATE: 12/21/2021

DATE: 12/21/2021

## CO 04 Backup Documentation

**CO 04 Includes:**

- **PCO 03 – Materials Cost difference to procure wooden benches in planters alternate to the Escofet Universe System benches**
- **PCO 14 - Adjust Sanitary Manhole; removing of (6) existing items from contract.**

- Section A. Memorandum of Negotiations**  
**Section B. Current Quotes from Vendor & Backup**  
**Section C. Itemized Final Negotiation Breakdown (PCO 14)**  
**Section D. Pencil Copy (Working) Markups for Each Party's Estimate (PCO 14)**  
**Section E. Original Party Estimate (PCO 14)**  
**Section F. Unused Items-Attachment A**

**Section A. Memorandum of Negotiations**



**Ballston-MU Station Area Improvements Project  
MEMORANDUM OF NEGOTIATIONS**

**CHANGE ORDER No. 4 – Add one (2) new item: Materials Cost Difference for Planter Wooden Benches and Adjust Sanitary Manhole; removing of (6) existing items from Pay Item list.**

**CONTRACT No:** 20-110-9-6

**DATE:** 08/10/21

1. **PROJECT:** Ballston-MU Station Area Improvements Project
2. **REASON FOR CHANGE ORDER:** See Remarks below.
3. **ARLINGTON COUNTY ESTIMATE (ACE):**

Amount: \$44,808.50

Date: 08/10/20

4. **CONTRACTOR'S PROPOSAL (CP):**

Amount: \$45,296.50

Date: 08/10/21

5. **NEGOTIATIONS:**

Amount:	New Items (2):	\$60,503.50	Date: 08/10/21
	Deleted Items (6):	<u>-\$15,450.00</u>	
		\$45,053.50	

6. **REMARKS:**

Item No. 1 (PCO 03) – Materials Cost Difference for Planter Wooden Benches (New Item):

- Reason for Change Order: Due to the redesign of N. Stuart St. after the start of construction, a hold was placed on releasing the subject benches for manufacture until the redesign was finalized in July 2021. As a result of the expiration of the original bid quote dated 8/14/20 and the subsequent cost quote dated 1/7/21 and an increase in the cost of raw materials, Ardent submitted a new quote and resultant Change Order on 7/16/21 for the materials cost difference to procure Bid Item No. 113 – Planter Wooden Benches which are an alternate to the original Escofet Universe System benches.
- Negotiation Recap: Based on these acknowledgements the parties agreed that a negotiation was not necessary and that the difference in original and latest vendor quotes would be used to determine the amount of compensation. Computation details are attached for three (3) quotes that were submitted by Ardent on 8/14/20, 1/7/20 and 7/16/21.

The parties discussed the specifics of this change to ensure that there was a mutual understanding of the scope of work involved.

Item No. 2 (PCO 14) – Adjust Sanitary Manhole (New Item):

- Reason for Change Order: Sanitary Manhole No. 1727 per sheet no. 19 of 68 was field-checked and found to be in good condition and not to be in conflict with the proposed curb. As a result, there is no need to relocate the manhole; instead, only the frame and cover need to be

raised/adjusted behind the curb. As such, Ardent was requested to submit a price proposal to perform the work.

- Negotiation Recap: Held 08/10/21: Bijay Subedi (PM) Ardent (Contractor); and Sekander Salihi (RE) representing Arlington County met virtually and presented each party’s estimate for this item: Arlington County Estimate (ACE) = \$1,084.00; Contractor’s Proposal (CP) = \$1,572.00.

The parties discussed the specifics of this change in order to ensure that there was a mutual understanding of the scope of work involved. Both parties negotiated and acknowledged the following:

- (1) The CP labor hours labors hours (6 hrs) were excessive.
- (2) The ACE and CP estimated varying equipment usage and hours and material amounts and agreed that usage and quantities should be adjusted



Based on these acknowledgements, the CP and ACE negotiators agreed: to compromise on the labor hours required (5 hours) in addition to other adjustments mentioned above. As a result, both parties arrived at a unit price of \$1,329.00 for Adjust Sanitary MH with a 0 CD extension of the contract duration.

**Item Nos. 3-8 (PCO 14) – Credit to County for Unused Contract Pay Items 30-35 (Deleted Items):**

- Reason for Change Order: As result of not needing to relocate the sanitary manhole per item No. 2 above, it follows that six (6) related existing pay items (Item Nos. 30-35) are no longer needed, the value for which will be credited to the County. See Attachment A for list of items.
- Negotiation Recap: Based on these acknowledgements a negotiation was not necessary and these pay items will be removed from contract.

Summary of Negotiations	Arlington County Estimate	Contractor’s Proposal	Negotiated Price
Add 2 New Items; Delete 6 Existing Items	<u>\$44,808.50</u>	<u>45,296.50</u>	\$45,053.50

Based upon the findings, it is recommended that a change order be issued to Ardent for a lump sum amount of \$45,053.50. The following find the price to be fair and reasonable for the work involved.

	8/12/2021
Arash Hooshangi, Ardent President	Date
	8/12/21
Sekander Salihi, EIT, STV Resident Engineer	Date
<i>Dara Soum</i>	8/12/21
Dara Soum, PE, Arlington County Project Manager	Date

**Section B. Current Quotes from Vendor & Backup Doc**



Ardent Job: 193-20

July 29, 2021

Mr. Dara Soum, P.E,  
 Senior Transit Planner/Project Management Coordinator  
 Arlington, VA 22201  
 Tel. (office): 703-228-3202

**Re: Contract No. 20-110-9-6  
 Ballston MU Metro Station Area Improvements  
 Arlington County**

Dear Mr. Soum,

Ardent Company hereby submits a change order request to compensate for the price difference for the procurement of wooden benches in planters alternate to the Escofet Universe System benches.

Item#	Description	Qty	Unit	Unit Price	Total
EWO1	Cost Difference in Material Price of Wooden Benches on Planters	1	LS	\$59,174.50	\$ 59,174.50
<b>Total Net Change to Contract</b>					<b>\$ 59,174.50</b>

Material price quotes for this cost difference is attached with this letter. Please note that this is additional cost to the existing contract line item 113.

Should you have any questions, please do not hesitate to contact me.

Sincerely,  
**Ardent Company, LLC**

A handwritten signature in black ink that reads "A. Hooshangi".

Arash Hooshangi, P.E.  
 Managing Director

## Overview & Clarifications

Date: 7/12/2021

LF Quote#: 310826

Project: Ballston MU Station

Studio 431 Custom Lead Times Vary And Will Be Determined At The Time The Order Is Placed. Custom Lead Times Can Range Anywhere From 5 To 7 Months.

Quote Is Based On Drawings Dated 9/19/2021 And Specifications Included But Not Dated

Quote Is Based On Current Market Price. Landscape Forms will hold pricing for 60 days. Price is subject to change after this time has expired.

### Inclusions:

- **Custom Park Bench, Backed Bench Topper Qty 25**
  - Support: Powder Coated BUY AMERICA Steel, Color: Standard Landscape Forms Color: TBD
    - Three Arm Rests: #304 Stainless Steel BUY AMERICA
    - Supports Mount Directly To Concrete
  - Wood: 100% FSC Ipe With Pennofin Oil Finish
    - Scalloped Holes In Boards For Anchoring Hardware
    - Board Dimension: 1.5" by 1.5" Square Boards
  - Hardware: Stainless Steel M8 x 45mm Drop In Concrete Anchors Included

### Pricing Summary:

Quantity	Description	Each	Extended
25	Custom Backed Bench 3 Arm Option	\$ 3,323.00	\$ 83,075.00
		Subtotal:	\$ 83,075.00

### Exclusions:

- Structural Stamp
- Footing Design
- Lighting / Electrical
- Anchoring Hardware
- Templates
- Installation
- Equipment for off loading
- Mock-ups
- Attic Stock
- Storage
- LEED Certifications
- Field Measurements

### Services Provided

- Three year warranty
- Dedicated engineer assigned to the project
- Dedicated project manager to coordinate and maintain schedule
- Material Samples
- Shop Drawings



**Contacts:**

**Local Landscape Forms Contact**

**Barbara Nolan, Inc.**

Barbara Nolan

Office: (703) 648-0848

Mobile: (703) 819-2441

barbara@barbaranolaninc.com

**Studio 431 Contact**

**Darin Piippo**

Studio 431 Market Specialist - Landscape Forms

Office: (269)276-4414

Mobile: (616)-648-5272

darinp@landscapeforms.com

Current price of Materials = \$ 83,075.00  
Shipping and Handling Cost = \$ 4,200.00  
Customized Color charge = \$ 2,600.00  
Total = \$ 89,875.00  
+ 6% Tax of Total = \$ 95,267.50

ial price = \$95,267.50  
 - \$36,093.00  
 = \$59,174.5

# Quote

Date: 07/12/2021

LF Quote#: 0000310826

PO#:

Project: Ballston MU Station Benches - S431

Bill To: Ardent Company  
 ATTN: Accounts Receivable  
 PO Box 879  
 McLean, VA 22101

**CORPORATE**

7800 E. Michigan Avenue  
 Kalamazoo, MI 49048-9543  
 P: 800.521.2546 F: 269.381.3455  
 www.landscapeforms.com  
 Federal I.D.# 38-1897577  
 FSC# RA-COC-001261

Ship To: Ardent Company  
 ATTN:  
 TBA  
 Arlington, VA 22203

Ship To Contact Phone:703-288-3250 Ext 209

Ship Via: Common Carrier

F.O.B.: Destination

Qty	Description	Unit Price	Total Price
-----	-------------	------------	-------------

**When ordering please confirm:**

- Shipping address and contact information (name and ph#)
- Billing address and contact information
- Is your firm or the project tax exempt? If so, exemption certificate must accompany order
- Delivery schedule:

\_\_\_ Ship immediately upon completion  
 OR Ship On/After the date:\_\_\_\_\_

Studio 431 Custom Lead Times Vary And Will Be Determined At The Time The Order Is Placed. Custom Lead Times Can Range Anywhere From 5 To 7 Months.

Quote Is Based On Drawings Dated 9/19/2021 And Specifications Included But Not Dated

Quote Is Based On Current Market Price. Landscape Forms will hold pricing for 60 days. Price is subject to change after this time has expired.

Ballston MU Station Benches - Custom Backed Bench Toppers, QTY: 25	\$ 83,075.00	\$ 83,075.00
--	--------------	--------------

\*\*Price includes standard powdercoat colors. Landscape Forms' RAL optional colors have a \$670.00 per order per color upcharge and Custom Colors have a \$2,600.00 per order per color upcharge.\*\*

Item Total	\$ 83,075.00
Shipping & Handling	\$ 4,200.00
<b>Sub Total</b>	<b>\$ 87,275.00</b>
Estimated Tax	\$ 5,236.51

Page: 1 of 3

Cust #: 2W3UD  
 SSR: Studio 431  
 Rep: Barbara Nolan, Inc, NA  
 Darin Piippo, LF5

*Landscape Forms Customer Service*

Purchaser

Seller

landscapeforms®

# Quote

Date: 01/27/2020

LF Quote#: 0000295622

PO#:

Project: Ballston MU Metro Station Area Improvements

Bill To: Bidders Quote  
ATTN: Bidder's Quote  
TBA

**CORPORATE**

7800 E. Michigan Avenue  
Kalamazoo, MI 49048-9543  
P: 800.521.2546 F: 269.381.3455  
www.landscapeforms.com  
Federal I.D.# 38-1897577  
FSC# RA-COC-001261

Ship To: Bidders Quote  
ATTN: Bidder's Quote  
TBA  
Arlington, VA 22201

Ship To Contact Phone:  
Ship Via: Common Carrier  
F.O.B.: Destination

Qty	Description	Unit Price	Total Price
-----	-------------	------------	-------------

ESCOFET: DIRECT SHIPMENT FROM BARCELONA SPAIN, SEE ATTACHED INSTALLATION GUIDE FOR EQUIPMENT REQUIRED TO OFFLOAD/MOVE PRODUCT.

**When ordering please confirm:**

- Shipping address and contact information (name and ph#)
- Billing address and contact information
- Is your firm or the project tax exempt? If so, exemption certificate must accompany order
- Delivery schedule:

\_\_\_ Ship immediately upon completion  
OR Ship On/After the date: \_\_\_\_\_

25	Escofet Escofet Product: <i>Universe System</i> Style: <i>71in Backed Bench</i> Mounting: <i>Top of Wall Mount</i> Options: <i>With Arms</i> Powdercoat Color: <i>Silver</i> Wood Option: <i>Tropical Wood FSC</i>	\$ 870.00	\$ 21,750.00
----	--	-----------	--------------

Item Total	\$ 21,750.00
Shipping & Handling	\$ 12,300.00
Sub Total	\$ 34,050.00
Estimated Tax	\$ 2,043.00
Document Total	<b>\$ 36,093.00</b>

Payment Terms: Pending-Net30

Cust #: LFBID  
SSR: Barbara Nolan  
Rep: Barbara Nolan, Inc, NA

*Landscape Forms Customer Service*

Purchaser

Seller

August 13, 2020

**Ardent Company, LLC.**

PO Box 879

McLean, VA 22101

ATTN: Bijay Subedi

Mr. Subedi,

This letter is in reference to the wood bench tops for the Ballston-MU Multimodal Improvements in Arlington, VA. Studio 431, Landscape Forms' custom division, will be manufacturing the benches with written certification that the products do indeed meet the requirements of the 49 CFR 661 Buy America Act.

We look forward to working with Ardent Company LLC on this project and will insure that the benches are all certified as Buy America.

Sincerely,

**Darin Piippo**

Studio 431 – Market Specialist

Landscape Forms Inc.

## Overview

Date: January 7, 2021

LF Quote#: 310826

Project: Ballston MU Station Benches

Quote Is Based On Current Market Price. Due To The Volatile Market, Price Is Subject To Change Upon Time Of Award.

Studio 431 Custom Lead Times Vary And Will Be Determined At The Time The Order Is Placed. Custom Lead Times Can Range Anywhere From 5 To 9 Months.

Quote Is Based On Drawings and Specifications Dated September 19, 2019.

### Inclusions:

- **Custom Park Bench, Backed Bench Topper Qty 25**
  - Support: Powder Coated BUY AMERICA Steel, Color: Standard TBD
    - Three Arm Rests: #304 Stainless Steel BUY AMERICA
    - Supports Mount Directly To Concrete
  - Wood: 100% FSC Ipe With Pennofin Oil Finish
    - Scalloped Holes In Boards For Anchoring Hardware
    - Board Dimension: 1.5" by 1.5" Square Boards
  - Hardware: Stainless Steel
    - M8 x 45mm Drop In Concrete Anchors Included

### Exclusions:

- |                         |                             |                       |
|-------------------------|-----------------------------|-----------------------|
| ▪ Structural Stamp      | ▪ Installation              | ▪ Attic Stock         |
| ▪ Templates             | ▪ Equipment for off loading | ▪ Storage             |
| ▪ Footing Design        | ▪ Mock-ups                  | ▪ Buy American Act    |
| ▪ Lighting / Electrical |                             | ▪ LEED Certifications |

### Services Provided

- Three 3-year warranty
- Dedicated engineer assigned to the project
- Dedicated project manager to coordinate and maintain schedule
- Engineered Shop Drawings
- Material Samples

### Contacts:

#### Local Landscape Forms Contact

##### **Barbara Nolan, Inc.**

Barbara Nolan

Office: (703) 648-0848

Mobile: (703) 819-2441

barbara@barbaranolaninc.com

#### Studio 431 Contact

##### **Darin Piippo**

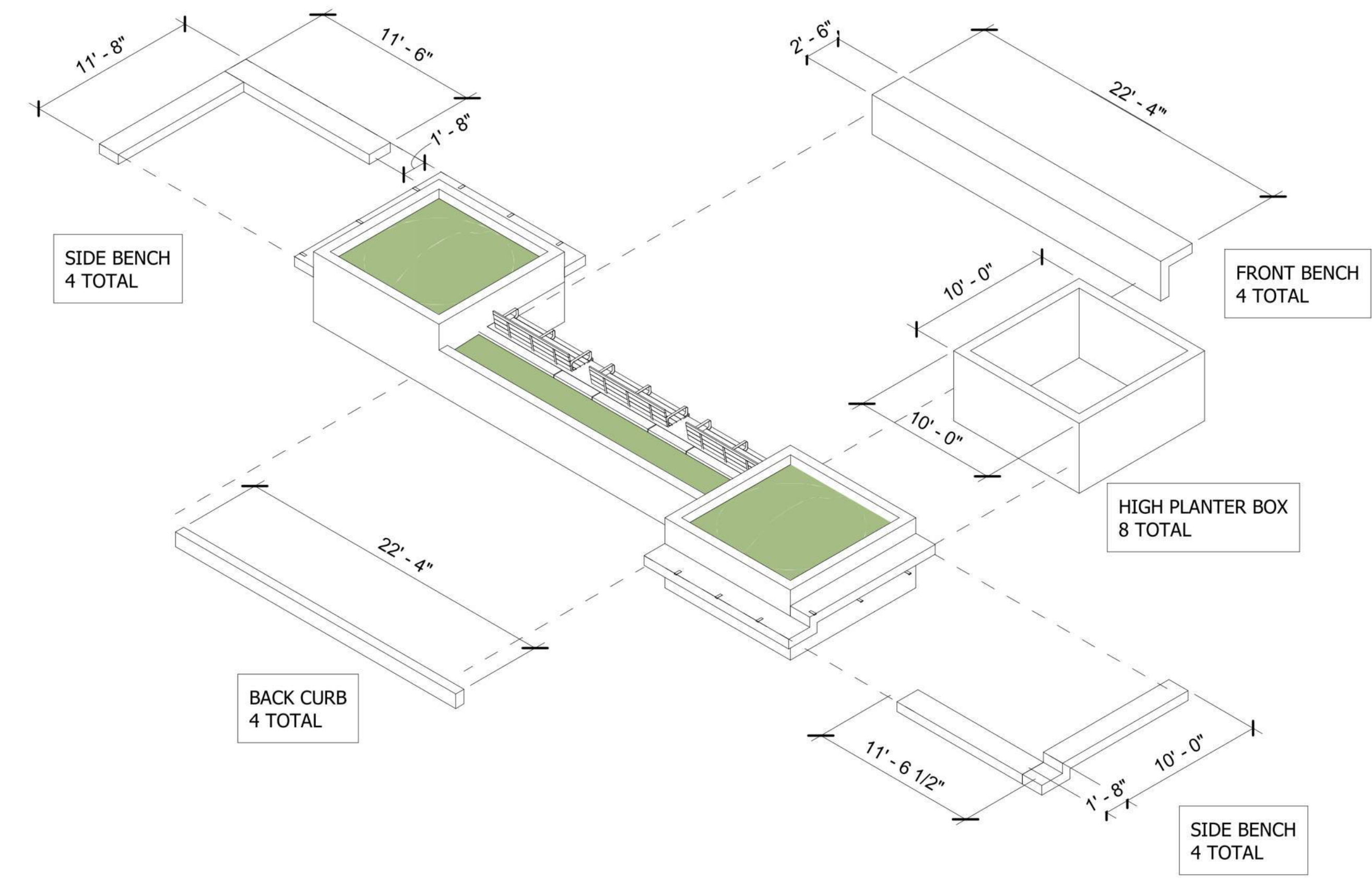
Studio 431 Market Specialist - Landscape Forms

Office: (269)276-4414

Mobile: (616)-648-5272

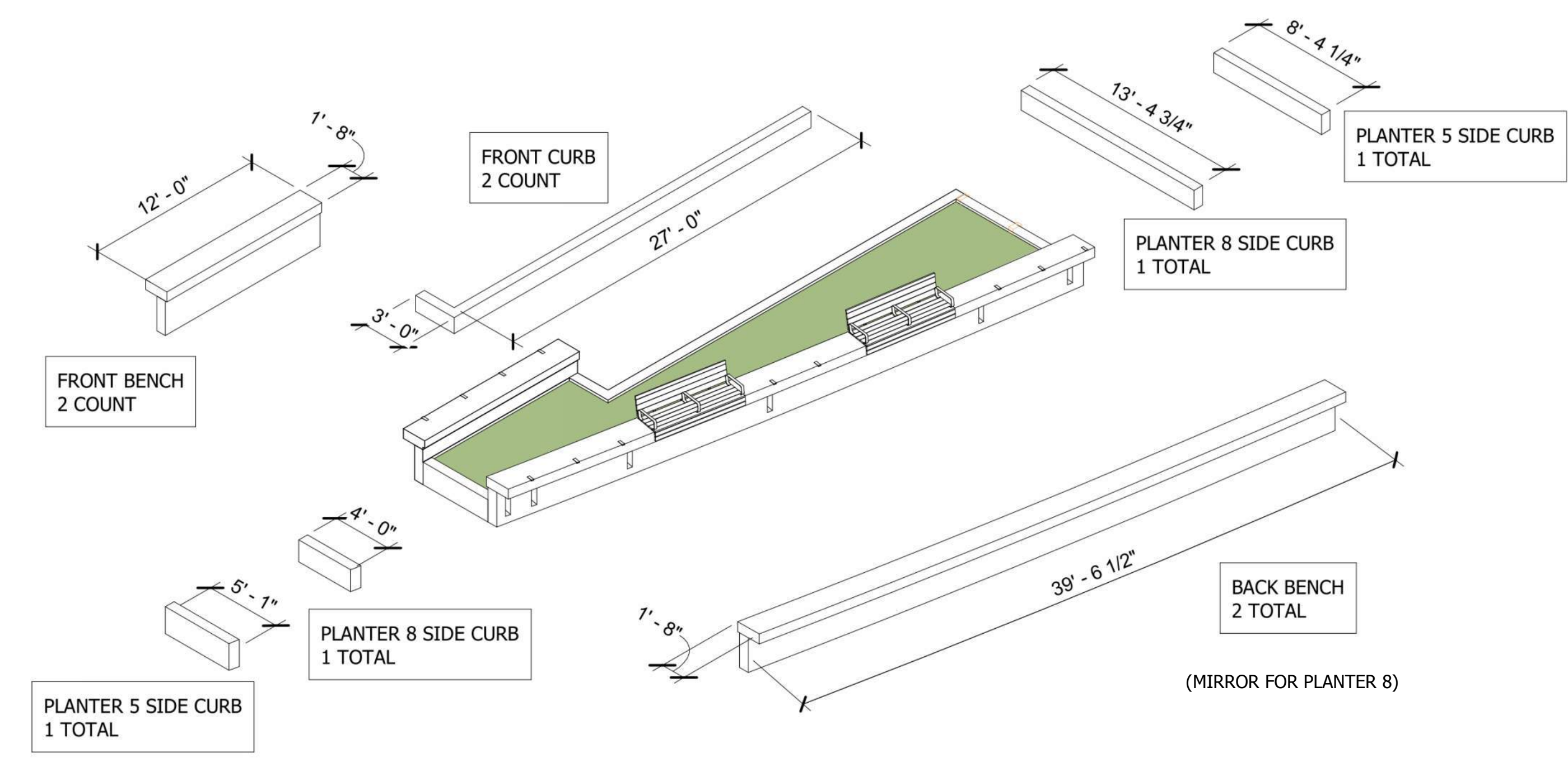
darinp@landscapeforms.com

### PLANTERS 1 - 4

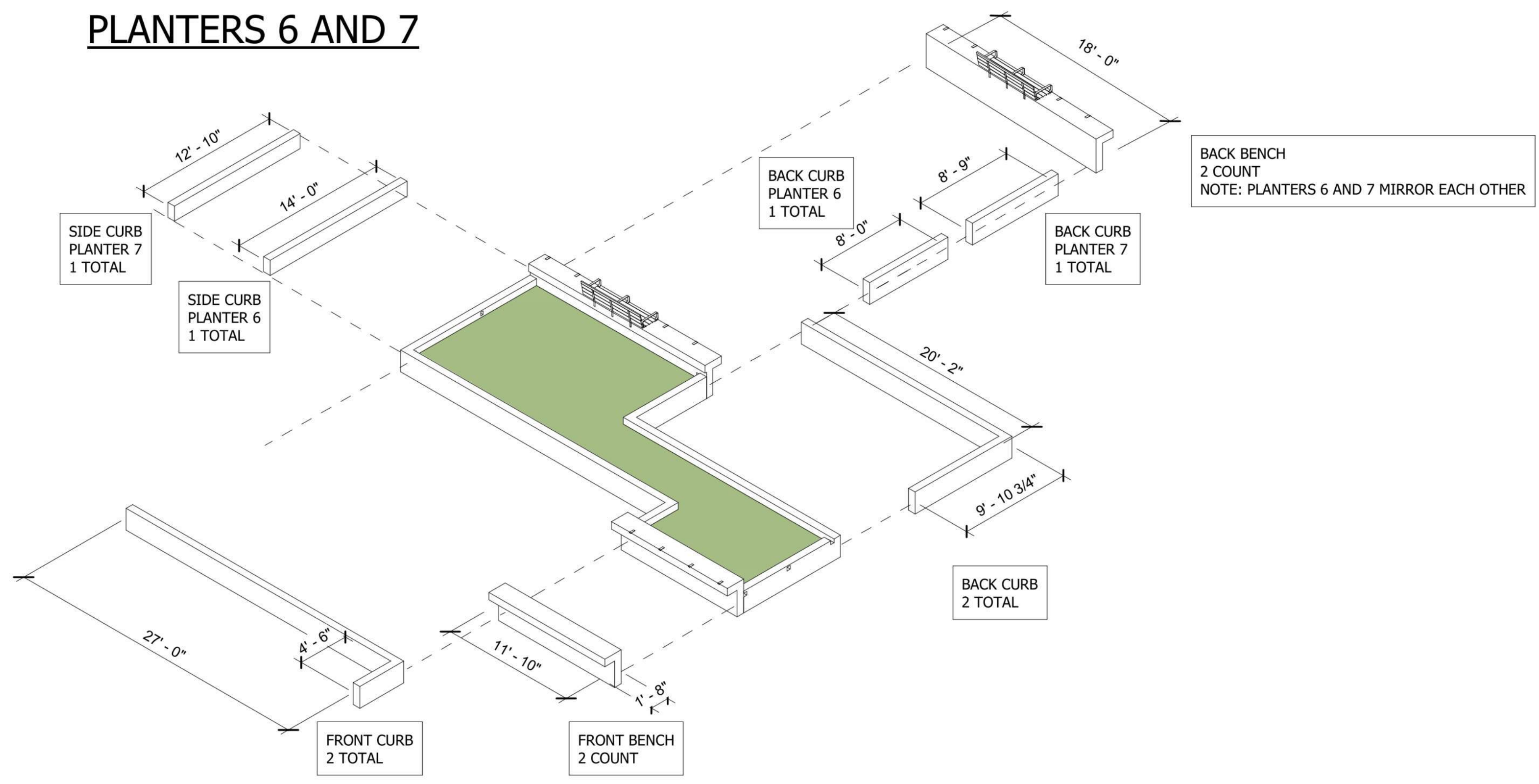


### PLANTERS 5 AND 8

NONE:  
PLANTER 5 MIRRORS PLANTER 8 EXCEPT FOR THE SIDE PANELS



### PLANTERS 6 AND 7



### WOOD BENCH COUNT

STUART STREET: 12  
FAIRFAX AVE: 6  
EXISTING PLANTER: 7  
TOTAL: 25



DEPARTMENT OF ENVIRONMENTAL SERVICES  
Division of Transportation  
Transit Bureau  
2100 Clarendon Boulevard, Suite 900  
Arlington, VA 22201  
Phone: 703.228.3344  
Fax: 703.228.0630



Approval	Date
TRANSPORTATION DIRECTOR	9/26/19
TRANSIT BUREAU CHIEF	9/25/19
CONSTRUCTION COORDINATOR	9/25/19
WATER, SEWER, STREETS BUREAU CHIEF	
PROJECT MANAGER	9/26/19











Revisions	Date

Project Name and Location  
**PRECAST PLANTER CONSTRUCTION**  
Ballston MU - Station  
Ballston - MU Multimodal Improvements

Designed: Designer  
Drawn: Author  
Checked: Checker  
Miss Utility Transmittal #:###  
Filename: 150115\_BallstonIntermodal.rvt  
Plotted: 9/19/2019 12:29:10 PM  
Plotted by: B. BLOUNT  
Scale:

A3.11

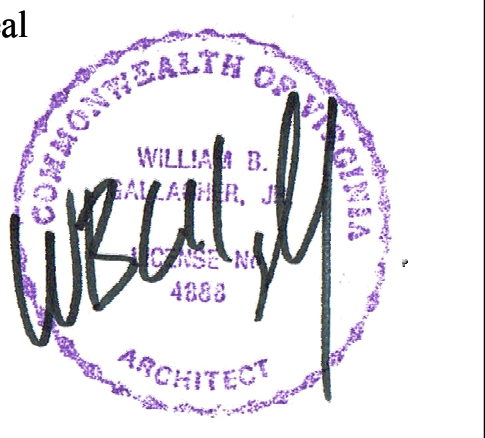
Sheet  
54C of 68

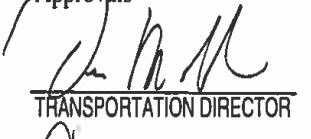
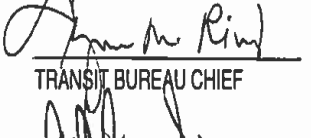
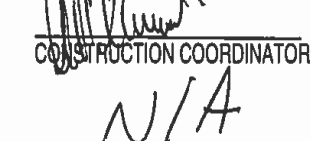
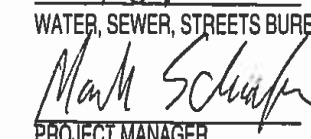
SITE ELEMENT	MANUFACTURER	PRODUCT INFORMATION	FINISH	COMMENTS
	OR APPROVED ALTERNATE(S)			
BICYCLE RACK - INVERTED U RACK	BASES OF DESIGN: DERO 'HOOP RACK HEAVY DUTY' <a href="http://www.dero.com/product/hoop-rack-heavy-duty/">http://www.dero.com/product/hoop-rack-heavy-duty/</a> OR APPROVED EQUAL		POWDER COATED, BLACK	ANCHOR MOUNTING PLATE TO CONCRETE SLAB-ON-GRADE WITH EPOXY EXPANSION BOLTS OR APPROVED ALTERNATIVE METHOD PER MFG RECOMMENDATIONS. CONCRETE BASE ANCHOR STUDS SHALL ALL BE TAMPER-PROOF CONNECTIONS. 
BUS SHELTER	BASES OF DESIGN: BRASCO, "ECLIPSE" FLAT <a href="http://www.brasco.com/products/bus-stop-shelters/eclipse-flat">http://www.brasco.com/products/bus-stop-shelters/eclipse-flat</a> OR APPROVED EQUAL		POWDERCOATED, WHITE ALUMINUM / GLASS	COMPLY WITH ARLINGTON COUNTY STANDARD OPAQUE ALUMINUM ROOF TO MATCH SHELTER 
BENCH	BASES OF DESIGN: LANDSCAPE FORMS "35 STAY BENCH" WITH BACK AND FACTORY INSTALLED DIVIDERS AND INTERMEDIATE ARMS <a href="http://www.landscapiforms.com/en-US/product/Pages/35-Stay-Bench.aspx">http://www.landscapiforms.com/en-US/product/Pages/35-Stay-Bench.aspx</a> OR APPROVED EQUAL		POWDERCOATED, PAINT TO MATCH BUS SHELTER BRASCO WHITE ALUMINUM	SURFACE MOUNT, BOLTED; REF ARCH SITE PLANS FOR SITE SPECIFICATIONS. 
TRASH RECEPTACLE	WMATA STANDARD VICTOR STANLEY, INC., IRONSITES SERIES, MODEL S-42 <a href="https://www.victorstanley.com/product/s-42/">https://www.victorstanley.com/product/s-42/</a> OR APPROVED EQUAL		TGIC POWER COATED - PAINT BLACK	
PRECAST PLANTERS	CUSTOM PRECAST PLANTER		STANDARD WHITE, ACID WASH, REF SPEC	 
SIDEWALK	18" X 36" SCORED CONCRETE (TRANSIT AND LOADING)		DARK GREY, BROOM FINISH COLOR TO BE CHOSEN FROM STANDARD COLOR CHARTS	TYPICAL CONCRETE AT SIDEWALK / PLAZA AREA COMPLY WITH ARLINGTON COUNTY STANDARD 
	3' x 9' SCORED CONCRETE (WALKING AREAS, PLAZA)		STANDARD BROOM FINISH COLOR TO BE CHOSEN FROM STANDARD COLOR CHARTS	DARK GREY AT TRANSIT AREA 
WOOD BENCH	BASES OF DESIGN: LANDSCAPE FORMS "ESCOFET UNIVERSE SYSTEM" BACKED BENCH 71", SURFACE MOUNT, TROPICAL WOOD <a href="https://www.landscapiforms.com/en-US/product/Pages/Escofet-Universe-System.aspx">https://www.landscapiforms.com/en-US/product/Pages/Escofet-Universe-System.aspx</a> OR APPROVED EQUAL		TROPICAL WOOD W/ STEEL SUPPORT STRAPS, SILVER FINISH	
PRECAST PAVER AS SPLASH BLOCK	STANDARD PRECAST PAVER		TO MATCH PLANTER PRECAST	
SKATEBOARD DETERRENT DEVICE	BASES OF DESIGN: SKATE STOPPERS "ARLINGTON", INSERT SERIES <a href="http://WWW.SKATESTOPPERS.COM">WWW.SKATESTOPPERS.COM</a> OR APPROVED EQUAL		WHITE TOMBASIL	EMBEDDED INTO PRECAST BENCH 



DEPARTMENT OF ENVIRONMENTAL SERVICES  
Division of Transportation  
Transit Bureau  
2100 Clarendon Boulevard, Suite 900  
Arlington, VA 22201  
Phone: 703.228.3344  
Fax: 703.228.0630

Copyright © 2011 Arlington County Virginia. All Rights Reserved.



Approvals	Date
	9/26/19
TRANSPORTATION DIRECTOR	
	9/25/19
TRANSIT BUREAU CHIEF	
	9/25/19
CONSTRUCTION COORDINATOR	
N/A	
WATER, SEWER, STREETS BUREAU CHIEF	
	9/25/19
PROJECT MANAGER	

Revisions	Date

Project Name and Location  
**HARDSCAPE SCHEDULE**  
Ballston MU - Station  
Ballston - MU Multimodal Improvements  
###

Designed: KGP design studio, LLC  
Drawn: B BLOUNT  
Checked: D PAINE  
Miss Utility Transmittal #:###  
Filename:150115\_BallstonIntermodal.rvt

Plotted: 9/19/2019 12:29:11 PM  
Plotted by: B. BLOUNT  
Scale: 3/16" = 1'-0"

**A6.0**

Sheet  
**57 of 68**

# Quote

Date: 01/07/2021  
 LF Quote#: 0000310826  
 PO#:

Project: Ballston MU Station Benches - S431

Bill To: Ardent Company  
 ATTN: Accounts Receivable  
 PO Box 879  
 McLean, VA 22101

**CORPORATE**

7800 E. Michigan Avenue  
 Kalamazoo, MI 49048-9543  
 P: 800.521.2546 F: 269.381.3455  
 www.landscapeforms.com  
 Federal I.D.# 38-1897577  
 FSC# RA-COC-001261

Ship To: Ardent Company  
 ATTN:  
 TBA  
 Arlington, VA 22203

Ship To Contact Phone: 703-288-3250 Ext 209  
 Ship Via: Common Carrier  
 F.O.B.: Destination

Qty	Description	Unit Price	Total Price
-----	-------------	------------	-------------

**When ordering please confirm:**

- Shipping address and contact information (name and ph#)
- Billing address and contact information
- Is your firm or the project tax exempt? If so, exemption certificate must accompany order
- Delivery schedule:

\_\_\_ Ship immediately upon completion  
 OR Ship On/After the date: \_\_\_\_\_

Quote Is Based On Current Market Price. Due To The Volatile Market, Price Is Subject To Change Upon Time Of Award.

Studio 431 Custom Lead Times Vary And Will Be Determined At The Time The Order Is Placed. Custom Lead Times Can Range Anywhere From 5 To 9 Months.

Quote Is Based On Drawings and Specifications Dated September 19, 2019.

1	Ballston MU Station Benches - Custom Backed Bench Toppers	\$ 79,900.00	\$ 79,900.00
---	---	--------------	--------------

\*\*Price includes standard powdercoat colors. Landscape Forms' RAL optional colors have a \$670.00 per order per color upcharge and Custom Colors have a \$2,600.00 per order per color upcharge.\*\*

Item Total	\$ 79,900.00
Shipping & Handling	\$ 4,080.00
Sub Total	\$ 83,980.00
Estimated Tax	\$ 5,038.80
Document Total	<b>\$ 89,018.80</b>

Cust #: 2W3UD  
 SSR: Studio 431  
 Rep: Barbara Nolan, Inc, NA  
 Darin Piippo, LF5

*Landscape Forms Customer Service*

Purchaser

Seller



# Quote

Date: 01/07/2021

LF Quote#: 0000310826

PO#:

Project: Ballston MU Station Benches - S431

Bill To: Ardent Company

ATTN: Accounts Receivable

PO Box 879

McLean, VA 22101

**CORPORATE**

7800 E. Michigan Avenue

Kalamazoo, MI 49048-9543

P: 800.521.2546 F: 269.381.3455

www.landscapeforms.com

Federal I.D.# 38-1897577

FSC# RA-COC-001261

Ship To: Ardent Company

ATTN:

TBA

Arlington, VA 22203

Ship To Contact Phone: 703-288-3250 Ext 209

Ship Via: Common Carrier

F.O.B.: Destination

Qty	Description	Unit Price	Total Price
-----	-------------	------------	-------------

Payment Terms: Pending-Net30

Landscape Forms, Inc. reserves the right to change payment terms based on payment history as well as information obtained from commercial credit reporting agencies.

- Purchaser is responsible for confirming options, materials, quantities, etc., for completeness and conformity to plans and specifications.
- Changes to or cancellations of orders may incur a penalty charge of 30% or more. Special orders may not be changed or cancelled.
- Studio 431 (custom) orders cannot be cancelled once purchase order is received and approved.
- Studio 431 orders are subject to price increase after engineering/product development is complete and approved by designer, end user and purchaser. Modifications in price will be handled via Change Order.
- No merchandise can be returned without authorization from Landscape Forms. Returns may be subject to a disposition fee of 30-100%.
- Prices based on quantities shown and quantity changes may affect price.
- QUOTED prices are held for 60 days. After receipt of a written ORDER, prices will be held for up to one year from receipt of the order. Changes in quantity or specification may affect pricing.
- Pricing includes selection from our standard color palette. Optional colors and custom color matches are available for an additional fee and will extend lead-time. Please contact our corporate office for more information.
- Fixtures for custom products are the property of Landscape Forms, Inc., and are not available for sale.
- Landscape Forms is a supplier only and ships via common carrier. Customer is responsible for offloading and installing unless otherwise indicated above.
- Handling fees alone will apply on third party and customer pick-up orders.
- Mounting hardware is only available on a limited number of products. Please consult the installation recommendations or contact our corporate office to confirm. In the event hardware is provided, it MUST be used for proper installation.
- Refer to Care and Maintenance guidelines for more detailed information and instructions.
- All orders ship upon completion of fabrication. A one-week grace period may be available, after which storage fees will apply.
- This Agreement contains the entire understanding between the parties. All prior communications are merged into this Agreement. The terms of this Agreement shall control any conflict between documents.

Page: 2 of 3

Cust #: 2W3UD  
 SSR: Studio 431  
 Rep: Barbara Nolan, Inc. NA  
 Darin Piippo, LF5



Purchaser

Seller



# Quote

Date: 01/07/2021

LF Quote#: 0000310826

PO#:

Project: Ballston MU Station Benches - S431

Bill To: Ardent Company  
ATTN: Accounts Receivable  
PO Box 879  
McLean, VA 22101

**CORPORATE**

7800 E. Michigan Avenue  
Kalamazoo, MI 49048-9543  
P: 800.521.2546 F: 269.381.3455  
www.landscapeforms.com  
Federal I.D.# 38-1897577  
FSC# RA-COC-001261

Ship To: Ardent Company  
ATTN:  
TBA  
Arlington, VA 22203

Ship To Contact Phone:703-288-3250 Ext 209

Ship Via: Common Carrier

F.O.B.: Destination

- This Agreement may be signed by the parties separately and by facsimile, and together they shall be deemed one binding, original Agreement.
- Purchaser shall pay all costs and expenses paid or incurred by Landscape Forms, Inc. in collecting any amounts due for goods purchased by Purchaser, including without limitation, reasonable attorneys' fees and collection costs. Balances on invoices not paid within 30 days of date of invoice, or within an alternate period of time as determined and indicated by Landscape Forms, shall incur interest at a rate of 18% per annum. Cash discounts are not offered.
- Tax is estimated. Actual tax will be charged on final invoice and shall be payable by the Purchaser. U.S. customers must provide a valid sales tax exemption or resale certificate to remove liability.
- To the extent purchaser supplies or modifies the standard specifications for any products, Landscape Forms, Inc. expressly disclaims all representations and warranties related to such products or their design whether express or implied except that the products shall be manufactured in accordance with purchaser's specifications.
- **REMITTANCE OPTIONS:** For information on paying via credit card, ACH, direct bank transfer, or wire please email us at [AR@landscapeforms.com](mailto:AR@landscapeforms.com). Mail payments to:

**USD Checks**

Landscape Forms, Inc.  
Dept 78073  
PO Box 78000  
Detroit, MI 48278-0073  
USA

**CAD Cheques**

Landscape Forms, Inc.  
PO Box 2408  
Station A  
Toronto, Ontario M5W 2K6  
CAN

Cust #: 2W3UD  
SSR: Studio 431  
Rep: Barbara Nolan, Inc, NA  
Darin Piippo, LF5

Purchaser

Seller

**\*\*This e-mail is from outside STV\*\***

Alfonso,

No exceptions to this product – see attached. No change in bench quantity. We have not evaluated this commercially.

Cliff

**From:** Ronca, Alfonso <[Alfonso.Ronca@stvinc.com](mailto:Alfonso.Ronca@stvinc.com)>

**Sent:** Monday, August 31, 2020 8:33 AM

**To:** Dara Soum <[dsoum@arlingtonva.us](mailto:dsoum@arlingtonva.us)>; Roberts, Clifford <[Clifford.Roberts@parsons.com](mailto:Clifford.Roberts@parsons.com)>

**Cc:** Mark Mainardi (<[mmainardi@arlingtonva.us](mailto:mmainardi@arlingtonva.us)> <[mmainardi@arlingtonva.us](mailto:mmainardi@arlingtonva.us)>); Rice, Caroline

<[Caroline.Rice@parsons.com](mailto:Caroline.Rice@parsons.com)>; Kleinman, Jennifer <[Jennifer.Kleinman@parsons.com](mailto:Jennifer.Kleinman@parsons.com)>

**Subject:** [EXTERNAL] FW: BMU\_Benches for the Planters

**Importance:** High

Hi Dara, Cliff,

Per below, Ardent needs approval of this CO (material cost difference for wooden benches) in order to submit a PO to Landscape Forms so they can prepare the submittal. It appears that Ardent is only asking for this material cost difference as a change condition and not any extra claim for labor and equipment. I have no objection to it as presented.

Cliff – To close the loop on your end, does Parsons have any objection to the materials based on the information provided thus far (attached)? Also, based on our ongoing analysis of field conditions and elevation challenges/potential for planter design changes, can Parsons advise at this time if the number of benches (25) will remain the same as Ardent needs to confirm this before sending PO.

Dara – Barring any objection from Parsons, please advise as to the County's position re the CO, and if we can proceed, let's discuss next steps/processing of the CO.

Thanks, and **"BE SAFE"**

**Alfonso Ronca, P.E.**

**Resident Engineer**

**Ballston-MU Metro Station Area Improvements Project**

**Cell: 202-604-7540**



**From:** Bijay Subedi <[bijay@ardentcompany.com](mailto:bijay@ardentcompany.com)>

**Sent:** Friday, August 28, 2020 12:37 PM

**To:** Ronca, Alfonso <[Alfonso.Ronca@stvinc.com](mailto:Alfonso.Ronca@stvinc.com)>; 'Dara Soum' <[dsoum@arlingtonva.us](mailto:dsoum@arlingtonva.us)>; 'Mark

Mainardi' <[mmainardi@arlingtonva.us](mailto:mmainardi@arlingtonva.us)>

**Subject:** BMU\_Benches for the Planters

**\*\*This e-mail is from outside STV\*\***

Hi Alfonso,

Regarding the submittals for the wooden benches on top of the planters, we need to send a purchase order to Landscape forms. Then only they will begin with preparing the submittal. So, we need a confirmation from the county that the change order we sent is good and we can move ahead with the purchase order.

Please feel free to contact me if you have any questions.

Best Regards,

Bijay Subedi

Project Manager

Ardent Company, LLC

Office:- 703-288-3250 (Ext 209)

Cell:- 703-888-9923

Fax:- 703-288-3251

# KGP Design Studio

Architecture

Urban Design

Planning

Interiors

## Transmittal

to: Parsons date: September 2 2020  
 job number: 1411  
 subject: Wooden Benches in Planters job name: Contract No. 20-110-9-6  
 Ballston MU Metro Station Area  
 Improvements  
 Arlington County

### WE ARE SENDING YOU:

- attached  under separate cover via \_\_\_\_\_ the following items:  
 shop dwgs  prints  plans  samples  specifications  copy of letter  change order  other

### THESE ARE TRANSMITTED as checked below:

- for your use  as requested  for review and comment  for approval

### REMARKS:

**KGP** design studio LLC  
 1777 Church St. NW  
 Washington, DC 20036  
 t 202.822.2102

REVIEWED  
 REVIEWED AND ACCEPTED  
 REVIEWED AND ACCEPTED AS NOTED  
 REVISE AND RESUBMIT  
 REJECTED, SEE REMARKS

This review is only for general conformance with the design concept of the project and general compliance with the information given in the Contract Documents. Corrections or comments made on the shop drawings during this review do not relieve contractor from compliance with the requirements of the plans and specifications. Approval of a specific item shall not include approval of an assembly or which the item is component. Contractor is responsible for. Dimensions to be confirmed and correlated at the jobsite; information that pertains solely to the fabrication processes or to the means, methods, techniques, sequences and procedures of construction; coordination of the Work of all trades; and the performing all work in a safe and satisfactory manner.

Date: 9/2/2020 By: bblount

1777 Church Street NW  
 Washington DC 20036  
 Tel 202 822 2102 Fax 202 822 2104  
 Email Address mail@kgpds.com  
 Website www.kgpds.com

Washington Honolulu Manila



Ardent Job: 193-20

August 14, 2020

Mr. Mark P. Mainardi  
 Sr. Capital Project Manager  
 Arlington County | DES | DOT-Transit Bureau  
 2100 Clarendon Blvd., Suite 813  
 Arlington, VA 22201

**Re: Contract No. 20-110-9-6  
 Ballston MU Metro Station Area Improvements  
 Arlington County**

Dear Mr. Mainardi,

Ardent Company hereby submits a change order request to compensate for the price difference for the procurement of wooden benches in planters alternate to the Escofet Universe System benches.

Item#	Description	Qty	Unit	Unit Price	Total
EW03	Cost Difference in Material Price of Wooden Benches on Planters	1	LS	\$47,254.82	\$ 47,254.82
<b>Total Net Change to Contract</b>					<b>\$ 47,254.82</b>

Material price quotes for this cost difference is attached with this letter. Please note that this is additional cost to the existing contract line item 113.

Should you have any questions, please do not hesitate to contact me.

Sincerely,  
**Ardent Company, LLC**

A handwritten signature in black ink, appearing to read "Arash Hooshangi".

Arash Hooshangi, P.E.  
 Managing Director

## Overview

Date: 8/12/2020

LF Quote#: 310826

Project: Ballston MU Station Benches

QUOTE IS BASED ON DRAWINGS AND SPECIFICATION DATED: 9/19/19

### Inclusions:

- **Custom Park Bench, Backed Bench Topper Qty 25**
  - Support: Powder Coated BUY AMERICA Steel, Color: Landscape Forms Mercury
    - Three Arm Rests: #304 Stainless Steel BUY AMERICA
    - Supports Mount Directly To Concrete
  - **Wood: 100% FSC Ipe With Penofin Oil Finish**
    - Scalloped Holes In Boards For Anchoring Hardware
    - Board Dimensions: 1.5" by 1.5" Square Profile Boards
  - Hardware: Stainless Steel
    - M8 x 45mm Drop In Concrete Anchors Included

### Exclusions:

- |                         |                              |               |
|-------------------------|------------------------------|---------------|
| ▪ Structural Stamp      | ▪ Installation               | ▪ Attic Stock |
| ▪ Templates             | ▪ Equipment for off- loading | ▪ Storage     |
| ▪ Footing Design        | ▪ Mock-ups                   |               |
| ▪ Lighting / Electrical |                              |               |

### Services Provided

- Three 3-year warranty
- Dedicated engineer assigned to the project
- Dedicated project manager to coordinate and maintain schedule

### Contacts:

#### Local Landscape Forms Contact

##### **Barbara Nolan, Inc.**

Barbara Nolan

Office: (703) 648-0848

Mobile: (703) 819-2441

barbara@barbaranolaninc.com

#### Studio 431 Contact

##### **Darin Piippo**

Studio 431 Market Specialist - Landscape Forms

Office: (269)276-4414

Mobile: (616)-648-5272

darinp@landscapeforms.com

Final Price => \$83,347.82  
\$36,093.00  
\$47,254.82

# Quote

Date: 08/12/2020

LF Quote#: 0000310826

PO#:

Project: Ballston MU Station Benches - S431

Bill To: Ardent Company  
ATTN: Accounts Receivable  
PO Box 879  
McLean, VA 22101

**CORPORATE**

7800 E. Michigan Avenue  
Kalamazoo, MI 49048-9543  
P: 800.521.2546 F: 269.381.3455  
www.landscapeforms.com  
Federal I.D.# 38-1897577  
FSC# RA-COC-001261

Ship To: Ardent Company  
ATTN:  
TBA  
Arlington, VA 22203

Ship To Contact Phone: 703-288-3250 Ext 209

Ship Via: Common Carrier

F.O.B.: Destination

Qty	Description	Unit Price	Total Price
-----	-------------	------------	-------------

**When ordering please confirm:**

- Shipping address and contact information (name and ph#)
- Billing address and contact information
- Is your firm or the project tax exempt? If so, exemption certificate must accompany order
- Delivery schedule:

Ship immediately upon completion  
 OR Ship On/After the date: \_\_\_\_\_

STUDIO 431 CUSTOM QUOTE. LEAD-TIME WILL BE DETERMINED AT THE TIME THE ORDER IS PLACED AND ALL ENGINEERING DETAILS ARE FINALIZED.

QUOTE IS BASED ON DRAWINGS & SPECIFICATIONS DATED ON: 9/19/2019

1	Ballston MU Station Benches - Custom Backed Bench Toppers	\$ 74,805.00	\$ 74,805.00
---	---	--------------	--------------

\*\*Price includes standard powdercoat colors. Landscape Forms' RAL optional colors have a \$670.00 per order per color upcharge and Custom Colors have a \$2,600.00 per order per color upcharge.\*\*

Item Total	\$ 74,805.00
Shipping & Handling	\$ 3,825.00
Sub Total	\$ 78,630.00
Estimated Tax	\$ 4,717.82
Document Total	\$ 83,347.82

Cust #: 2W3UD  
SSR: Studio 431  
Rep: Barbara Nolan, Inc, NA

*Landscape Forms Customer Service*

Purchaser

Seller





# Quote

Date: 01/27/2020

LF Quote#: 0000295622

PO#:

Project: Ballston MU Metro Station Area Improvements

Bill To: Bidders Quote  
ATTN: Bidder's Quote  
TBA

**CORPORATE**

7800 E. Michigan Avenue  
Kalamazoo, MI 49048-9543  
P: 800.521.2546 F: 269.381.3455  
www.landscapeforms.com  
Federal I.D.# 38-1897577  
FSC# RA-COC-001261

Ship To: Bidders Quote  
ATTN: Bidder's Quote  
TBA  
Arlington, VA 22201

Ship To Contact Phone:  
Ship Via: Common Carrier  
F.O.B.: Destination

Qty	Description	Unit Price	Total Price
-----	-------------	------------	-------------

ESCOFET: DIRECT SHIPMENT FROM BARCELONA SPAIN, SEE ATTACHED INSTALLATION GUIDE FOR EQUIPMENT REQUIRED TO OFFLOAD/MOVE PRODUCT.

**When ordering please confirm:**

- Shipping address and contact information (name and ph#)
- Billing address and contact information
- Is your firm or the project tax exempt? If so, exemption certificate must accompany order
- Delivery schedule:

\_\_\_ Ship immediately upon completion  
OR Ship On/After the date: \_\_\_\_\_

25	Escofet Escofet Product: <i>Universe System</i> Style: <i>71in Backed Bench</i> Mounting: <i>Top of Wall Mount</i> Options: <i>With Arms</i> Powdercoat Color: <i>Silver</i> Wood Option: <i>Tropical Wood FSC</i>	\$ 870.00	\$ 21,750.00
----	--	-----------	--------------

Item Total	\$ 21,750.00
Shipping & Handling	\$ 12,300.00
Sub Total	\$ 34,050.00
Estimated Tax	\$ 2,043.00
Document Total	<b>\$ 36,093.00</b>

Payment Terms: Pending-Net30

Cust #: LFBID  
SSR: Barbara Nolan  
Rep: Barbara Nolan, Inc, NA

*Landscape Forms Customer Service*

Purchaser

Seller

August 13, 2020

**Ardent Company, LLC.**

PO Box 879

McLean, VA 22101

ATTN: Bijay Subedi

Mr. Subedi,

This letter is in reference to the wood bench tops for the Ballston-MU Multimodal Improvements in Arlington, VA. Studio 431, Landscape Forms' custom division, will be manufacturing the benches with written certification that the products do indeed meet the requirements of the 49 CFR 661 Buy America Act.

We look forward to working with Ardent Company LLC on this project and will insure that the benches are all certified as Buy America.

Sincerely,

**Darin Piippo**

Studio 431 – Market Specialist

Landscape Forms Inc.

**Section C. Itemized Final Negotiation Breakdown (PCO 14)**

# ARDENT



## Final Negotiation Copy, 08/10/21

Ballston-MU Station Area Improvements Project  
Arlington County, VA

**PCO 14- Sanitary Manhole Adjustment**

**Description of Change;**

Adjustment of sanitary manhole no.1727 to the proposed grade.

<u>Task Description</u>	<u>Quantity</u>	<u>Hours</u>	<u>Unit</u>	<u>Rate</u>	<u>Subtotals</u>	<u>Comments</u>
<b>LABOR</b>						
Foreman	1.00	5.00	Hrs.	\$38.00	\$190.00	
Laborer (skilled)	1.00	5.00	Hrs.	\$22.00	\$110.00	
Laborer (unskilled)	3.00	5.00	Hrs.	\$21.00	\$315.00	
Operator	0.00	0.00	Hrs.	\$23.93	\$0.00	
Dump Truck Driver	0.00	0.00	Hrs.	\$20.34	\$0.00	
Other	0.00	0.00	Hrs.	\$50.00	\$0.00	
Subtotal Labor Base:					\$615.00	
Ind. Labor					15.15%	\$93.17 15.15% payroll burden
Subtotal Labor:					\$708.17	
O&P					15.00%	\$106.23
<b>TOTAL LABOR</b>					<b>\$814.40</b>	
<b>EQUIPMENT</b>						
	<u>Quantity</u>	<u>Hours</u>	<u>Unit</u>	<u>Rate</u>	<u>Subtotals</u>	
Excavator	0.00	0.00	Hrs.	\$115.85	\$0.00	
Backhoe	0.00	24.00	Hrs.	\$34.87	\$0.00	
Skid Steer	1.00	5.00	Hrs.	\$29.63	\$148.15	
Dump Truck (Large)	0.00	0.00	Hrs.	\$97.40	\$0.00	
Dump Truck (Small)	0.00	13.00	Hrs.	\$46.77	\$0.00	
Generator	0.00		Hrs.		\$0.00	
Concrete Saw	1.00	5.00	Hrs.	\$23.69	\$118.45	
Small Tools	0.00		Hrs.		\$0.00	
Service Truck	0.00	0.00	Hrs.	\$35.00	\$0.00	no service truck used
Pickup Truck	1.00	5.00	Hrs.	\$28.26	\$141.30	
Subtotal Equipment:					\$407.90	
O&P					0.00%	\$0.00
<b>TOTAL EQUIPMENT:</b>					<b>\$407.90</b>	
<b>MATERIAL</b>						
	<u>Quantity</u>	<u>Supplier</u>	<u>Unit</u>	<u>Unit \$</u>	<u>Subtotals</u>	
Bricks, Mortars and Misc	1.00		LS	\$100.00	\$100.00	
	0.00		LS	\$100.00	\$0.00	
	0.00		LS	\$200.00	\$0.00	
	0.00		LS	\$55.00	\$0.00	
Subtotal Material:					\$100.00	
Price +6% Tax						\$106.00
O&P					0.00%	\$0.00
<b>TOTAL MATERIAL</b>					<b>\$106.00</b>	
<b>SUBCONTRACTOR</b>						
	<u>(in Day)</u>	<u>Hrs</u>	<u>Unit \$</u>	<u>Subtotals</u>		
Sub 1	0.00	0.00	\$0.00	\$0.00		
		0.00	\$0.00	\$0.00		
		0.00	\$0.00	\$0.00		
		0.00	\$0.00	\$0.00		
		0.00	\$0.00	\$0.00		
Subtotal Sub:					\$0.00	
O&P					10.00%	\$0.00
<b>TOTAL SUB</b>					<b>\$0.00</b>	
SUBTOTAL L+E+M:					\$1,328.30	
Bond					0.00%	\$0.00
<b>TOTAL L+E+M+S:</b>					<b>\$1,328.30</b>	
Roundup Each (Unit):					\$1,329.00	
Total Each (Unit):					1	
<b>CO TOTAL:</b>					<b>\$ 1,329.00</b>	

Created by: S. Salihi, E.I.T, Resident Engineer,  
Checked by: A. Ronca, PE, 8/10/21

1. 0 days time was considered for the estimated task.
2. Production rate and crew size was based on current crew size for similar work.
3. Trade rates reflect effective payroll rates, plus payroll burden.
4. 2020 Rental Rate Blue Book rates were referenced and considered in preparation of this estimate.

**Section D. Pencil Copy (Working) Markups for Each Party's Estimate (PCO 14)**

*A's Cost - Breakdown per Mtd adjustment*

**Cost Breakdown For Manhole Adjustment**

**Labor & Equipment Costs**

**Labor**

Classification	Days	Hours (ST)	Hours (OT)	Rate (hr)	OT Rate (hr)	Total
Foreman	1 ✓	6 <del>5</del>		\$ <del>43.70</del>		\$ <del>262.20</del>
Laborer	1 ✓	6 <del>5</del>		\$ <del>25.30</del>		\$ <del>151.80</del>
Laborer	1 ✓	6 <del>5</del>		\$ <del>24.12</del>		\$ <del>144.72</del>
Laborer	1 ✓	6 <del>5</del>		\$ <del>24.12</del>		\$ <del>144.72</del>
Laborer	1 ✓	6 <del>5</del>		\$ <del>24.15</del>		\$ <del>144.90</del>
Admin. Costs, Profit & Benefits (0%)						\$ -
Overhead and Profit (15%)						\$ <del>127.25</del>
<b>Total</b>						\$ <del>2,975.59</del>

**Equipment**

Equipment	Days	Hours (Active)	Hours (Stby)	Rate (Active)	Rate (Stby)	Total
Pick up Truck, Silverado 1500	1 ✓	6 <del>5</del>	0	\$ <del>28.26</del>		\$ <del>169.56</del>
Skid Steer, John Deere 317	1 ✓	6 <del>5</del>	0	\$ <del>29.63</del>		\$ <del>177.78</del>
Concrete Saw	1 ✓	6 <del>5</del>	0	\$ <del>23.69</del>		\$ <del>142.14</del>
					Allowance (0%)	\$ -
<b>Total</b>						\$ <del>489.48</del>

**Material**

Material	Supplier	Quantity	Unit	Unit Price	Unit Price + Tax	Total
Bricks, Mortars and Miscellaneous		1	LS	\$ <del>100.00</del>	\$ <del>106.00</del>	\$ <del>106.00</del>
					Allowance (0%)	\$ -
<b>Total</b>						\$ <del>106.00</del>

**Total** \$ ~~1,572.00~~

# ARDENT



## STV/County Independent Cost Estimate 08/10/21

Ballston-MU Station Area Improvements Project  
 Arlington County, VA  
 PCO 14- Manhole Adjustment

**Description of Change;**

Sanitary Manhole No.1727 adjustment to the proposed grade.

*5 hrs*

Task Description	Quantity	Hours	Unit	Rate	Subtotals	Comments
<b>LABOR</b>						
Foreman	<del>1.00</del>	4.00	Hrs.	\$38.00	<del>\$152.00</del>	
Laborer (skilled)	<del>1.00</del>	4.00	Hrs.	\$22.00	<del>\$88.00</del>	
Laborer (unskilled)	<del>3.00</del>	4.00	Hrs.	\$21.00	<del>\$252.00</del>	
Operator	0.00	0.00	Hrs.	\$23.93	\$0.00	
Dump Truck Driver	0.00	0.00	Hrs.	\$20.34	\$0.00	
Other	0.00	0.00	Hrs.	\$50.00	\$0.00	

Subtotal Labor Base:	\$492.00
Ind. Labor <b>15.15%</b>	\$74.54 15.15% payroll burden
Subtotal Labor:	<del>\$566.54</del>
O&P <b>15.00%</b>	<del>\$84.98</del>
<b>TOTAL LABOR</b>	<b><del>\$651.52</del></b>

EQUIPMENT	Quantity	Hours	Unit	Rate	Subtotals	Comments
Excavator	0.00	0.00	Hrs.	\$115.85	\$0.00	
Backhoe	0.00	24.00	Hrs.	\$34.87	\$0.00	
Skid Steer	<del>1.00</del>	<del>5.40</del>	Hrs.	<del>\$29.63</del>	<del>\$118.52</del>	
Dump Truck (Large)	0.00	0.00	Hrs.	\$97.40	\$0.00	
Dump Truck (Small)	0.00	13.00	Hrs.	\$46.77	\$0.00	
Generator	0.00		Hrs.		\$0.00	
Concrete Saw	<del>1.00</del>	<del>4.00</del>	Hrs.	<del>\$23.69</del>	<del>\$94.76</del>	
Small Tools	0.00		Hrs.		\$0.00	
Service Truck	0.00	0.00	Hrs.	\$35.00	\$0.00	no service truck used
Pickup Truck	<del>1.00</del>	<del>4.00</del>	Hrs.	<del>\$28.26</del>	<del>\$113.04</del>	

Subtotal Equipment:	<del>\$928.32</del>
O&P <b>0.00%</b>	\$0.00
<b>TOTAL EQUIPMENT:</b>	<b><del>\$928.32</del></b>

MATERIAL	Quantity	Supplier	Unit	Unit \$	Subtotals
Bricks, Mortars and Misc	1.00		LS	\$100.00	\$100.00
	0.00		LS	\$100.00	\$0.00
	0.00		LS	\$200.00	\$0.00
	0.00		LS	\$55.00	\$0.00
Subtotal Material:					\$100.00
Price +6% Tax					\$106.00
O&P <b>0.00%</b>					\$0.00
<b>TOTAL MATERIAL</b>					<b>\$106.00</b>

SUBCONTRACTOR	(in Day)	Hrs	Unit \$	Subtotals
Sub 1	0.00		\$0.00	\$0.00
	0.00		\$0.00	\$0.00
	0.00		\$0.00	\$0.00
	0.00		\$0.00	\$0.00
	0.00		\$0.00	\$0.00
Subtotal Sub:				\$0.00
O&P <b>10.00%</b>				\$0.00
<b>TOTAL SUB</b>				<b>\$0.00</b>

SUBTOTAL L+E+M:	<del>\$1,083.84</del>
Bond <b>0.00%</b>	\$0.00
<b>TOTAL L+E+M+S:</b>	<b>\$1,083.84</b>
Roundup Each (Unit):	\$1,084.00
Total Each (Unit):	1
<b>CO TOTAL:</b>	<b>\$1,084.00</b>

*AR/SS  
8/10/21*

Created by: S. Salihi, E.I.T, Resident Engineer,  
 Checked by: A. Ronca, PE, 8/10/21

1. 0 days time was considered for the estimated task.
2. Production rate and crew size was based on current crew size for similar work.
3. Trade rates reflect effective payroll rates, plus payroll burden.
4. 2020 Rental Rate Blue Book rates were referenced and considered in preparation of this estimate.

**Section E. Original Party Estimate (PCO 14)**



<b>Cost Breakdown For Manhole Adjustment</b>
--

<b>Labor &amp; Equipment Costs</b>
------------------------------------

<b>Labor</b>						
--------------	--	--	--	--	--	--

Classification	Days	Hours (ST)	Hours (OT)	Rate (hr)	OT Rate (hr)	Total
Foreman	1	6		\$ 43.70		\$ 262.20
Laborer	1	6		\$ 25.30		\$ 151.80
Laborer	1	6		\$ 24.12		\$ 144.72
Laborer	1	6		\$ 24.12		\$ 144.72
Laborer	1	6		\$ 24.15		\$ 144.90
Admin. Costs, Profit & Benefits (0%)						\$ -
Overhead and Profit (15%)						\$ 127.25
<b>Total</b>						<b>\$ 975.59</b>

<b>Equipment</b>						
------------------	--	--	--	--	--	--

Equipment	Days	Hours (Active)	Hours (Stby)	Rate (Active)	Rate (Stby)	Total
Pick up Truck, Silverado 1500	1	6	0	\$ 28.26		\$ 169.56
Skid Steer, John Deere 317	1	6	0	\$ 29.63		\$ 177.78
Concrete Saw	1	6	0	\$ 23.69		\$ 142.14
					<i>Allowance (0%)</i>	\$ -
<b>Total</b>						<b>\$ 489.48</b>

<b>Material</b>						
-----------------	--	--	--	--	--	--

Material	Supplier	Quantity	Unit	Unit Price	Unit Price + Tax	Total
Bricks, Mortars and Miscellaneous		1	LS	\$ 100.00	\$ 106.00	\$ 106.00
					<i>Allowance (0%)</i>	\$ -
<b>Total</b>						<b>\$ 106.00</b>

<b>Total</b>	<b>\$ 1,572.00</b>
--------------	--------------------

**Section F. Unused Items-Attachment A**

# Attachment A

**Contract No. 20-110-9-6**

**Ballstons MU Metro**

**Proposed Change Order No. 14 Credit to County for Unused Contract Pay Items 30-35**

Bid Item No.	Item Description	Unit	Unit Price	Original Quantity	Previous Quantity Adjustment	Increases/Decrease		Total Amount
						This CO	Unit Price	
30	Remove Sanitary Manhole	EA	\$ 2,000.00	1.00	0.00	(1.00)	\$ 2,000.00	\$ (2,000.00)
31	Manhole, VDOT MH-1	VLF	\$ 350.00	12.00	0.00	(12.00)	\$ 350.00	\$ (4,200.00)
32	Manhole Frame and Cover, VDOT MH-1	EA	\$ 250.00	1.00	0.00	(1.00)	\$ 250.00	\$ (250.00)
33	Sanitary Sewer Pipe, 4"-8"	LF	\$ 250.00	10.00	0.00	(10.00)	\$ 250.00	\$ (2,500.00)
34	Sanitary Sewer Pipe, 10"-12"	LF	\$ 300.00	10.00	0.00	(10.00)	\$ 300.00	\$ (3,000.00)
35	Sanitary Sewer Pipe, 15"-18"	LF	\$ 350.00	10.00	0.00	(10.00)	\$ 350.00	\$ (3,500.00)
<b>Total Net Amount</b>								<b>\$ (15,450.00)</b>

## **CO 05 Backup Documentation**

**CO 05 Includes:**

- **PCO 15 – Add two (2) new items: Low-Impact Demolition (Sawcutting and Excavation) of N. Stuart St. Concrete Bus Bays atop Parking Garage; and Low-Impact Demolition (Excavation) of N. Stuart St. Sidewalk atop Parking Garage; Remove one (1) existing item: Excavation and Backfilling For Parking Garage Roof Waterproofing from pay Item list.**

- Section A. Memorandum of Negotiations**
- Section B. Itemized Final Negotiation Breakdown (PCO 15)**
- Section C. Pencil Copy (Working) Markups for Each Party's Estimate (PCO 15)**
- Section D. Original Party Estimate (PCO 15)**
- Section E. Unused Items-Attachment A**

## **Section A. Memorandum of Negotiations**



**Ballston-MU Station Area Improvements Project  
MEMORANDUM OF NEGOTIATIONS**

**CHANGE ORDER No. 5 – Add two (2) new items: Low-Impact Demolition (Sawcutting and Excavation) of N. Stuart St. Concrete Bus Bays atop Parking Garage; and Low-Impact Demolition (Excavation) of N. Stuart St. Sidewalk atop Parking Garage; Remove one (1) existing item: Excavation and Backfilling For Parking Garage Roof Waterproofing from pay Item list.**

**CONTRACT No:** 20-110-9-6

**DATE:** 09/23/21

1. **PROJECT:** Ballston-MU Station Area Improvements Project

2. **REASON FOR CHANGE ORDER:** See Remarks below.

3. **ARLINGTON COUNTY ESTIMATE (ACE):**

Amount (Credit to County): (\$69,800.00)

Date: 09/16/20

4. **CONTRACTOR'S PROPOSAL (CP):**

Amount (Credit to County): (\$1,028.00)

Date: 08/27/21

5. **NEGOTIATIONS:**

Amount:      New Items (2):      \$84,338.00  
                  Deleted Item (1): (\$126,000.00)  
                  (\$41,662.00)

Date: 09/20/21

6. **REMARKS:**

**Item No. 1 (PCO 15) – Low-Impact Demolition (Sawcutting and Excavation) of N. Stuart St. Concrete Bus Bays atop Parking Garage (New Item):**

- Reason for Change Order: Due to the close proximity of the 901 N. Stuart St. parking garage roof deck slab to the street level surface between 9<sup>th</sup> St. and Fairfax Dr. within the Phase 2 limits, the contractor is advised to perform demolition with care to avoid damaging the structure and its waterproof covering which sits approximately 15 inches below street grade. As such, the use of heavy mechanical equipment (hoe-ram, jackhammers, etc) is prohibited, and Ardent is hereby directed to proceed using lightweight equipment and saw-cut methods with the understanding that additional time will be required to perform demolition operations that had been estimated by Ardent to be performed with heavy equipment as evaluated from the contract plans and quantity estimate. As such, Ardent has been advised to submit a cost proposal for compensation of this activity within an agreed-to 12 ft. buffer zone from the face of the curb to the west.
- Negotiation Recap: Held 09/18/21: Bijay Subedi (PM) and Vivek Thukral (Sr. PM) representing Ardent (Contractor); Alfonso Ronca (PM) and Sekander Salihi (RE) representing Arlington County met virtually and presented each party's estimate for this item: Arlington County Estimate (ACE) = \$29,023.00; Contractor's Proposal (CP) = \$67,784.00

The parties discussed the specifics of this change in order to ensure a mutual understanding of the scope of work involved. Both parties negotiated and acknowledged the following:

- (1) The 17 CP labor days were excessive because the CP included areas to be demolished that are outside of the garage footprint and 12 ft. buffer zone and estimated at a lower productivity rate than the ACE.
- (2) The CP estimated an excessive number of dumps required based on a miscalculation of allowable load sizes/weights.
- (3) The ACE and CP estimated varying equipment usage and hours and material amounts and agreed that some equipment was or was not needed/other equipment hours should be adjusted.
- (4) The CP did not request time for the work but should have.

Based on these acknowledgements, the parties agreed to reduce the labor days from 17 to 9 and the number of dumps from 49 to 30 in addition to time adjustments for associated equipment usage. As result, both parties arrived at a unit price of \$44,515.00 for Item No. 1 with a 5 CD extension of the contract duration.

**Item No. 2 (PCO 15) – Low-Impact Demolition (Excavation) of N. Stuart St. Sidewalk atop Parking Garage (New Item):**

- Reason for Change Order: Due to the close proximity of the 901 N. Stuart St. parking garage roof deck slab to the sidewalk surface between 9<sup>th</sup> St. and Fairfax Dr. within the Phase 2 and 3 limits, the contractor is advised to perform demolition with care to avoid damaging the structure and its waterproof covering which sits approximately 4 inches below sidewalk grade. As such, the use of heavy mechanical equipment (hoe-ram, jackhammers, etc) is prohibited, and Ardent is hereby directed to proceed using lightweight equipment with the understanding that additional time will be required to perform demolition operations that had been estimated by Ardent to be performed with heavy equipment as evaluated from the contract plans and quantity estimate. As such, Ardent has been advised to submit a cost proposal for compensation of this activity which will be performed essentially by hand
- Negotiation Recap: Held 09/18/21: Bijay Subedi (PM) Ardent (Contractor) and Vivek Thukral (Sr. PM) Ardent; Alfonso Ronca (PM) and Sekander Salihi (RE) representing Arlington County met virtually and presented each party's estimate for this item: Arlington County Estimate (ACE) = \$27,177.00; Contractor's Proposal (CP) = \$57,188.00

The parties discussed the specifics of this change in order to ensure a mutual understanding of the scope of work involved. Both parties negotiated and acknowledged the following:

- (1) The 16 CP labor days were excessive because the CP included sidewalk areas to be demolished that are outside (north of) the garage footprint and estimated a lower productivity rate than ACE.
- (2) The 8 ACE labor days underestimated the difficulty in removing the encrusted sand layer below the brick sidewalk pavers and atop the waterproofing layer.
- (3) The CP estimated an excessive number of dumps required based on a miscalculation of allowable load sizes/weights.
- (4) The ACE and CP estimated varying equipment usage and hours as well as material amounts and agreed that some equipment was or was not needed/other equipment hours should be adjusted.

Based on these acknowledgements, the parties agreed to compromise midway on 12 labor days and reduce the number of dumps from 30 to 27 in addition to time adjustments for associated equipment usage including the addition of a service truck missed by the ACE. As result, both parties arrived at a unit price of \$39,823.00 for Excavation on top of Parking Garage on N. Stuart St. with a 0 CD extension of the contract duration.

Item No. 3 (PCO 15) – Credit to County for Unused Contract Pay Item 8 (Deleted Item):

- Reason for Change Order: New Items 1 and 2 above replace contract work previously covered under contract pay item 8 - Excavation and Backfilling For Parking Garage Roof Waterproofing (Sheets WP-1 and WP-2). As a result, it follows that this one (1) existing pay item is no longer needed, the value for which will be credited to the County. See attachment A for a list of this item.
- Negotiation Recap: Based on these acknowledgements a negotiation was not necessary and these pay items will be removed from contract.

Summary of Negotiations	Arlington County Estimate	Contractor's Proposal	Negotiated Price
Add 2 New Items; Delete 1 Existing item	(\$69,800.00)	(\$1,028.00)	(\$41,662.00)

The negotiations of 09/20/21 resulted in all parties agreeing to the same unit price for two (2) new contract items and one (1) existing contract item to be credited.

Based upon the findings, it is recommended that a change order be issued to Ardent for a lump sum amount of \$84,338.00 for the two (2) new pay items, and a credit be applied to the contract in the amount of \$126,000.00 for a net savings of \$41,662. The following find the price to be fair and reasonable for the work involved.

*A. Hooshangi*

Arash Hooshangi, Ardent President

9/23/2021

Date

*S. Salihi*

Sekander Salihi, EIT, STV Resident Engineer

9/23/21

Date

*Dara Soum*

Dara Soum, PE, Arlington County Project Manager

9/30/21

Date



**Section B. Itemized Final Negotiation Breakdown (PCO 15)**

**ARDENT****Final Negotiation Copy, 09/20/21**

Ballston-MU Station Area Improvements Project  
Arlington County, VA

**PCO 15 - Low-Impact Demolition (Sawcutting & Excavation) of N. Stuart St. Concrete Bus Bays atop Parking Garage**

**Description of Change;**

**Additional time to perform demolition with care atop the 901 N. Stuart St. parking garage roof deck slab due to its shallow depth**

<u>Task Description</u>	<u>Quantity</u>	<u>Hours</u>	<u>Unit</u>	<u>Rate</u>	<u>Subtotals</u>	<u>Comments</u>
<b>LABOR</b>						
Foreman	1.00	72.00	Hrs.	\$38.00	\$2,736.00	
Laborer (skilled)	1.00	72.00	Hrs.	\$22.00	\$1,584.00	
Laborer (unskilled)	3.00	72.00	Hrs.	\$21.00	\$4,536.00	
Operator	1.00	72.00	Hrs.	\$23.93	\$1,722.96	
Dump Truck Driver	0.00	0.00	Hrs.	\$20.34	\$0.00	
Other	0.00	0.00	Hrs.	\$50.00	\$0.00	
					Subtotal Labor Base:	\$10,578.96
					Ind. Labor	15.15% \$1,602.71
					Subtotal Labor:	\$12,181.67
					O&P	15.00% \$1,827.25
					<b>TOTAL LABOR</b>	<b>\$14,008.92</b>
<b>EQUIPMENT</b>						
Excavator	0.00	0.00	Hrs.	\$115.85	\$0.00	
Backhoe	1.00	48.00	Hrs.	\$34.86	\$1,673.28	
Skid Steer	1.00	72.00	Hrs.	\$29.63	\$2,133.36	
Dump Truck (Large)	0.00	0.00	Hrs.	\$97.40	\$0.00	
Dump Truck (Small)	0.00	0.00	Hrs.	\$46.77	\$0.00	
Generator	0.00		Hrs.		\$0.00	
Concrete Saw	1.00	72.00	Hrs.	\$23.69	\$1,705.68	
Sweeper	1.00	48.00	Hrs.	\$27.16	\$1,303.68	
Service Truck	1.00	72.00	Hrs.	\$31.26	\$2,250.72	
Pickup Truck	1.00	72.00	Hrs.	\$28.26	\$2,034.72	
					Subtotal Equipment:	\$11,101.44
					O&P	0.00% \$0.00
					<b>TOTAL EQUIPMENT:</b>	<b>\$11,101.44</b>
<b>MATERIAL</b>						
Dump Fee	30	See comment	EA	210	\$6,300.00	Supplier (DC Materials)
Saw Blade	4.00		EA	\$900.00	\$3,600.00	
	0.00		LS	\$100.00	\$0.00	
	0.00		LS	\$200.00	\$0.00	
	0.00		LS	\$55.00	\$0.00	
					Subtotal Material:	\$9,900.00
					Price +6% Tax	\$1,494.00
					O&P	0.00% \$0.00
					<b>TOTAL MATERIAL</b>	<b>\$10,494.00</b>
<b>SUBCONTRACTOR</b>						
Trucking	(in Day)	Hrs	Unit	Unit \$	Subtotals	
	12.00	9		\$75.00	\$8,100.00	
	0.00			\$0.00	\$0.00	
	0.00			\$0.00	\$0.00	
	0.00			\$0.00	\$0.00	
	0.00			\$0.00	\$0.00	
					Subtotal Sub:	\$8,100.00
					O&P	10.00% \$810.00
					<b>TOTAL SUB</b>	<b>\$8,910.00</b>
					SUBTOTAL L+E+M:	\$44,514.36
					Bond	0.00% \$0.00
					<b>TOTAL L+E+M+S:</b>	<b>\$44,514.36</b>
					Roundup Each (Unit):	\$44,515.00
					Total Each (Unit):	1
					<b>CO TOTAL:</b>	<b>\$ 44,515.00</b>

Created by: S. Salihi, E.I.T, Resident Engineer,  
Checked by: A. Ronca, PE 9/18/2021

**Notes:**

1. 9 days time was considered for the estimated task.
2. Production rate and crew size was based on current crew size for similar work.
3. Trade rates reflect effective payroll rates, plus payroll burden.
4. 2020 Rental Rate Blue Book rates were referenced and considered in preparation of this estimate.

# ARDENT



## Final Negotiation Copy, 09/20/21

Ballston-MU Station Area Improvements Project  
Arlington County, VA

**PCO 15 - Low-Impact Demolition (Excavation) of N. Stuart St. Sidewalk atop Parking Garage**

**Description of Change;**

**Additional time to perform demolition with care atop the 901 N. Stuart St. parking garage roof deck slab due to its shallow depth**

<u>Task Description</u>	<u>Quantity</u>	<u>Hours</u>	<u>Unit</u>	<u>Rate</u>	<u>Subtotals</u>	<u>Comments</u>
<b>LABOR</b>						
Foreman	1.00	96.00	Hrs.	\$38.00	\$3,648.00	
Laborer (skilled)	1.00	96.00	Hrs.	\$22.00	\$2,112.00	
Laborer (unskilled)	3.00	96.00	Hrs.	\$21.00	\$6,048.00	
Operator	1.00	32.00	Hrs.	\$23.93	\$765.76	
Dump Truck Driver	0.00	0.00	Hrs.	\$20.34	\$0.00	
Other	0.00	0.00	Hrs.	\$50.00	\$0.00	
Subtotal Labor Base:					\$12,573.76	
Ind. Labor					15.15%	\$1,904.92 15.15% payroll burden
Subtotal Labor:					\$14,478.68	
O&P					15.00%	\$2,171.80
<b>TOTAL LABOR</b>					<b>\$16,650.49</b>	

<u>EQUIPMENT</u>	<u>Quantity</u>	<u>Hours</u>	<u>Unit</u>	<u>Rate</u>	<u>Subtotals</u>	
Excavator	0.00	0.00	Hrs.	\$115.85	\$0.00	
Backhoe	1.00	32.00	Hrs.	\$34.86	\$1,115.52	
Skid Steer	1.00	48.00	Hrs.	\$29.63	\$1,422.24	
Dump Truck (Large)	0.00	0.00	Hrs.	\$97.40	\$0.00	
Dump Truck (Small)	0.00	0.00	Hrs.	\$46.77	\$0.00	
Generator	0.00		Hrs.		\$0.00	
Concrete Saw	0.00	0.00	Hrs.	\$23.69	\$0.00	
Sweeper	0.00	0.00	Hrs.	\$27.16	\$0.00	
Service Truck	1.00	96.00	Hrs.	\$31.26	\$3,000.96	
Pickup Truck	1.00	96.00	Hrs.	\$28.26	\$2,712.96	
Subtotal Equipment:					\$8,251.68	
O&P					0.00%	\$0.00
<b>TOTAL EQUIPMENT:</b>					<b>\$8,251.68</b>	

<u>MATERIAL</u>	<u>Quantity</u>	<u>Supplier</u>	<u>Unit</u>	<u>Unit \$</u>	<u>Subtotals</u>	
Dump Fee	27	See comment	EA	210	\$5,670.00	Supplier (DC Materials)
	0.00		LS	\$100.00	\$0.00	
	0.00		LS	\$200.00	\$0.00	
	0.00		LS	\$55.00	\$0.00	
Subtotal Material:					\$5,670.00	
Price +6% Tax					\$6,010.20	
O&P					0.00%	\$0.00
<b>TOTAL MATERIAL</b>					<b>\$6,010.20</b>	

<u>SUBCONTRACTOR</u>	<u>(in Day)</u>	<u>Hrs</u>	<u>Unit \$</u>	<u>Subtotals</u>	
Trucking	12.00	9	\$75.00	\$8,100.00	
	0.00		\$0.00	\$0.00	
	0.00		\$0.00	\$0.00	
	0.00		\$0.00	\$0.00	
	0.00		\$0.00	\$0.00	
Subtotal Sub:				\$8,100.00	
O&P				10.00%	\$810.00
<b>TOTAL SUB</b>				<b>\$8,910.00</b>	

SUBTOTAL L+E+M:		\$39,822.37
Bond	0.00%	\$0.00
<b>TOTAL L+E+M+S:</b>		<b>\$39,822.37</b>
Roundup Each (Unit):		\$39,823.00
Total Each (Unit):		1
<b>CO TOTAL:</b>		<b>\$ 39,823.00</b>

Created by: S. Salihi, E.I.T, Resident Engineer,  
Checked by: A. Ronca, PE 9/18/2021

**Notes:**

- 12 days time was considered for the estimated task.
- Production rate and crew size was based on current crew size for similar work.
- Trade rates reflect effective payroll rates, plus payroll burden.
- 2020 Rental Rate Blue Book rates were referenced and considered in preparation of this estimate.

**Section C. Pencil Copy (Working) Markups for Each Party's Estimate (PCO 15)**

**Cost Breakdown For Sawcutting and Excavation in Bus bay**

**Labor & Equipment Costs**

**Labor**

Classification	Days	Hours (ST)	Hours (OT)	Rate (hr)	OT Rate (hr)	Total
Foreman	<del>17</del> 9	8 ✓		\$ <del>43.70</del>		\$ <del>5,943.20</del>
Laborer	<del>17</del> 9	8 ✓		\$ <del>25.30</del>		\$ <del>3,440.80</del>
Laborer	<del>17</del> 9	8 ✓		\$ <del>24.12</del>		\$ <del>3,280.32</del>
Laborer	<del>17</del> 9	8 ✓		\$ <del>24.12</del>		\$ <del>3,280.32</del>
Laborer	<del>5</del> 9	8 ✓		\$ <del>24.15</del>		\$ <del>966.00</del>
Total						\$ <del>16,910.64</del>

**Equipment**

Equipment	Days	Hours (Active)	Hours (Stby)	Rate (Active)	Rate (Stby)	Total
Backhoe	<del>17</del> 6	8 ✓	0	\$ 35.76		\$ <del>1,430.40</del>
Pick up Truck, Silverado 1500	<del>17</del> 9	8 ✓	0	\$ 28.26		\$ <del>3,843.36</del>
Skid Steer, John Deere 317	<del>17</del> 9	8 ✓	0	\$ 29.63		\$ <del>4,029.68</del>
Service Truck	<del>12</del> 9	8 ✓	0	\$ 35.00		\$ <del>3,360.00</del>
Concrete Saw	<del>12</del> 9	8 ✓	0	\$ 23.69		\$ <del>2,274.24</del>
Sweeper	<del>5</del> 6	8 ✓	0	\$ 27.16		\$ <del>1,086.40</del>
Total						\$ <del>16,024.08</del>

**Material**

Material	Supplier	Quantity	Unit	Unit Price	Unit Price + Tax	Total
Dump Fee	DC Materials	<del>40</del> 30	EA	\$ <del>210.00</del>	\$ <del>222.60</del>	\$ <del>10,907.40</del>
Saw Blades		<del>5</del> 4	EA	\$ <del>900.00</del>	\$ <del>954.00</del>	\$ <del>4,770.00</del>
Total						\$ <del>15,677.40</del>

**Subcontractor**

Work	Sub Contractor	Day	Hours	Rate	Lump Sum	Total
Trucking		12 <del>16</del>	<del>49</del>	\$ <del>75.00</del>		\$ <del>10,800.00</del>
Allowance (10%)						\$ <del>1,080.00</del>
Total						\$ <del>11,880.00</del>

*Removed from estimate*

Base Cost (Labor + Equipment + Material)	\$ <del>48,612.00</del>
Base Cost Overhead and Profit (15%)	\$ 7,291.80
Subcontractor Cost Inc Overhead (10%)	\$ <del>11,880.00</del>
<b>Total</b>	\$ <del>67,784.00</del>

9118/21

# ARDENT



## STV/County Independent Cost Estimate 09/16/21

Ballston-MU Station Area Improvements Project  
Arlington County, VA

PCO 15 - Low-Impact Demolition (Sawcutting & Excavation) of N. Stuart St. Concrete Bus Bays atop Parking Garage

**Description of Change;**

Additional time to perform demolition with care atop the 901 N. Stuart St. parking garage roof deck slab due to its shallow depth

Task Description	Quantity	Hours	Unit	Rate	Subtotals	Comments
<b>LABOR</b>						
Foreman	1.00	<del>72</del> 54.00	Hrs.	\$38.00	<del>\$2,052.00</del>	
Laborer (skilled)	1.00	<del>72</del> 54.00	Hrs.	\$22.00	<del>\$1,188.00</del>	
Laborer (unskilled)	3.00	<del>72</del> 54.00	Hrs.	\$21.00	<del>\$3,402.00</del>	
Add(1) Operator	1.00	<del>0.00</del> 720.00	Hrs.	\$23.93	\$0.00	
Dump Truck Driver	0.00	0.00	Hrs.	\$20.34	\$0.00	
Other	0.00	0.00	Hrs.	\$50.00	\$0.00	
Subtotal Labor Base:					<del>\$6,642.00</del>	
Ind. Labor					15.15%	15.15% payroll burden
Subtotal Labor:					<del>\$7,648.26</del>	
O&P					15.00%	
					<del>\$1,147.24</del>	
<b>TOTAL LABOR</b>					<b>\$8,795.50</b>	

EQUIPMENT	Quantity	Hours	Unit	Rate	Subtotals	
Excavator	0.00	0.00	Hrs.	\$115.85	\$0.00	
Backhoe	1.00	<del>48</del> 32.00	Hrs.	\$34.87	\$1,115.84	
Skid Steer	1.00	<del>72</del> 54.00	Hrs.	\$29.63	\$1,600.02	
Dump Truck (Large)	0.00	0.00	Hrs.	\$97.40	\$0.00	
Dump Truck (Small)	0.00	0.00	Hrs.	\$46.77	\$0.00	
Generator	0.00		Hrs.		\$0.00	
Concrete Saw	1.00	<del>72</del> 54.00	Hrs.	\$23.69	\$1,279.26	
Sweeper	1.00	<del>48</del> 32.00	Hrs.	\$27.16	\$869.12	
Service Truck	1.00	<del>72</del> 54.00	Hrs.	\$31.26	\$1,688.04	
Pickup Truck	1.00	<del>72</del> 54.00	Hrs.	\$28.26	\$1,526.04	
Subtotal Equipment:					<del>\$8,078.32</del>	
O&P					0.00%	\$0.00
<b>TOTAL EQUIPMENT:</b>					<b>\$8,078.32</b>	

MATERIAL	Quantity	Supplier	Unit	Unit \$	Subtotals	Comments
Dump Fee	3018	See comment	EA	210	\$3,780.00	Supplier ()
Saw Blade	4	See comment	EA	\$900.00	\$2,700.00	
	0.00		LS	\$100.00	\$0.00	
	0.00		LS	\$200.00	\$0.00	
	0.00		LS	\$55.00	\$0.00	
Subtotal Material:					<del>\$6,480.00</del>	
Price +6% Tax					<del>\$6,068.80</del>	
O&P					0.00%	\$0.00
<b>TOTAL MATERIAL</b>					<b>\$6,868.80</b>	

SUBCONTRACTOR	(in Day)	Hrs	Unit \$	Subtotals	
Trucking	12	<del>0.00</del> 9	\$75.00	\$4,800.00	
		0.00	\$0.00	\$0.00	
		0.00	\$0.00	\$0.00	
		0.00	\$0.00	\$0.00	
		0.00	\$0.00	\$0.00	
Subtotal Sub:				<del>\$4,800.00</del>	
O&P				10.00%	\$480.00
<b>TOTAL SUB</b>				<b>\$5,280.00</b>	

AR/SS  
09/18/21

SUBTOTAL L+E+M:	<del>\$29,022.62</del>	
Bond	0.00%	\$0.00
<b>TOTAL L+E+M+S:</b>	<b>\$29,022.62</b>	
Roundup Each (Unit):	<del>\$29,023.00</del>	
Total Each (Unit):	1	
<b>CO TOTAL:</b>	<b>\$29,023.00</b>	

Created by: S. Salihi, E.I.T, Resident Engineer,  
Checked by: A. Ronca, PE 9/16/2021

- Notes:
1. 7 days time was considered for the estimated task.
  2. Production rate and crew size was based on current crew size for similar work.
  3. Trade rates reflect effective payroll rates, plus payroll burden.
  4. 2020 Rental Rate Blue Book rates were referenced and considered in preparation of this estimate.

**Cost Breakdown For Excavation on top of Parking Garage in Stuart Street**

**Labor & Equipment Costs**

**Labor**

Classification	Days	Hours (ST)	Hours (OT)	Rate (hr)	OT Rate (hr)	Total
Foreman	<del>16</del> 12	8		\$ 43.70		\$ 5,593.60
Laborer	<del>16</del> 12	8		\$ 25.30		\$ 3,238.40
Laborer	<del>16</del> 12	8		\$ 24.12		\$ 3,087.36
Laborer	<del>16</del> 12	8		\$ 24.12		\$ 3,087.36
Laborer	<del>16</del> 12	8		\$ 24.15		\$ 3,091.20
<i>Add (1) operator for 4 days</i>						
Total						\$ 18,097.92

**Equipment**

Equipment	Days	Hours (Active)	Hours (Stby)	Rate (Active)	Rate (Stby)	Total
Backhoe	<del>16</del> 9	8	0	\$ 35.76		\$ 4,577.28
Pick up Truck, Silverado 1500	<del>16</del> 12	8	0	\$ 28.26		\$ 3,617.28
Skid Steer, John Deere 317	<del>16</del> 6	8	0	\$ 29.63		\$ 3,792.64
<i>Add (1) Service Truck for 12 days</i>						
Total						\$ 18,496.00

**Material**

Material	Supplier	Quantity	Unit	Unit Price	Unit Price + Tax	Total
Dump Fee	DC Materials	<del>30</del> 27	EA	\$ 210.00	\$ 222.60	\$ 6,678.00
Total						\$ 6,678.00

**Subcontractor**

Work	Sub Contractor	Day	Hours	Rate	Lump Sum	Total
Trucking		<del>10</del> 12	9	\$ 75.00		\$ 6,750.00
Allowance (10%)						\$ 675.00
Total						\$ 7,425.00

Base Cost (Labor + Equipment + Material)	\$ 43,272.00
Base Cost Overhead and Profit (15%)	\$ 6,490.80
Subcontractor Cost Inc Overhead (10%)	\$ 7,425.00
<b>Total</b>	<b>\$ 57,188.00</b>

*Base Cost Overhead and Profit (15%) has been removed from Contractor estimates.*

9/18/21

# ARDENT



## STV/County Independent Cost Estimate 09/16/21

Ballston-MU Station Area Improvements Project  
Arlington County, VA

PCO 15 - Low-Impact Demolition (Excavation) of N. Stuart St. Sidewalk atop Parking Garage

**Description of Change;**

Additional time to perform demolition with care atop the 901 N. Stuart St. parking garage roof deck slab due to its shallow depth

Task Description	Quantity	Hours	Unit	Rate	Subtotals	Comments
<b>LABOR</b>						
Foreman	1.00	96	Hrs.	\$38.00	<del>\$2,736.00</del>	
Laborer (skilled)	1.00	96	Hrs.	\$22.00	<del>\$1,584.00</del>	
Laborer (unskilled)	3.00	96	Hrs.	\$21.00	<del>\$4,536.00</del>	
Add (1) Operator	1	0.00	320.00	Hrs.	\$23.93	\$0.00
Dump Truck Driver	0.00	0.00	0.00	Hrs.	\$20.34	\$0.00
Other	0.00	0.00	0.00	Hrs.	\$50.00	\$0.00
Subtotal Labor Base:					<del>-\$8,856.00</del>	
Ind. Labor					15.15%	<del>-\$1,341.68</del> -15.15% payroll burden
Subtotal Labor:					<del>-\$10,197.68</del>	
O&P					15.00%	<del>-\$1,529.65</del>
<b>TOTAL LABOR</b>					<b><del>-\$11,727.34</del></b>	

EQUIPMENT	Quantity	Hours	Unit	Rate	Subtotals	
Excavator	0.00	0.00	Hrs.	\$115.85	\$0.00	
Backhoe	1.00	32	Hrs.	\$34.87	\$2,231.68	
Skid Steer	1.00	48	Hrs.	\$29.63	\$1,896.32	
Dump Truck (Large)	0.00	0.00	Hrs.	\$97.40	\$0.00	
Dump Truck (Small)	0.00	0.00	Hrs.	\$46.77	\$0.00	
Generator	0.00		Hrs.		\$0.00	
Concrete Saw	0.00	0.00	Hrs.	\$23.69	\$0.00	
Sweeper	0.00	0.00	Hrs.	\$27.16	\$0.00	
Add (1) Service Truck	1	0.00	96.00	Hrs.	\$35.00	\$0.00
Pickup Truck	1.00	72	Hrs.	\$28.26	\$2,034.72	
Subtotal Equipment:					<del>-\$6,162.72</del>	
O&P					0.00%	\$0.00
<b>TOTAL EQUIPMENT:</b>					<b><del>-\$6,162.72</del></b>	

MATERIAL	Quantity	Supplier	Unit	Unit \$	Subtotals	
Dump Fee	27	18	EA	210	<del>-\$5,700.00</del>	
	0.00		LS	\$100.00	\$0.00	
	0.00		LS	\$200.00	\$0.00	
	0.00		LS	\$55.00	\$0.00	
Subtotal Material:					<del>-\$3,700.00</del>	
Price +6% Tax					<del>-\$4,006.80</del>	
O&P					0.00%	\$0.00
<b>TOTAL MATERIAL</b>					<b><del>-\$4,006.80</del></b>	

SUBCONTRACTOR	(in Day)	Hrs	Unit \$	Subtotals	
Trucking	12	0.00	89	\$75.00	\$4,800.00
		0.00		\$0.00	\$0.00
		0.00		\$0.00	\$0.00
		0.00		\$0.00	\$0.00
		0.00		\$0.00	\$0.00
Subtotal Sub:				<del>-\$4,800.00</del>	
O&P				10.00%	<del>-\$480.00</del>
<b>TOTAL SUB</b>				<b><del>-\$5,280.00</del></b>	

SUBTOTAL L+E+M:	\$27,176.86	
Bond	0.00%	\$0.00
<b>TOTAL L+E+M+S:</b>	<b><del>-\$27,176.86</del></b>	
Roundup Each (Unit):	<del>-\$27,177.00</del>	
Total Each (Unit):	1	
<b>CO TOTAL:</b>	<b><del>-\$27,177.00</del></b>	

AR/SS  
9/18/21

Created by: S. Salihi, E.I.T, Resident Engineer,  
Checked by: A. Ronca, PE 9/16/2021

- Notes:
1. 9 days time was considered for the estimated task.
  2. Production rate and crew size was based on current crew size for similar work.
  3. Trade rates reflect effective payroll rates, plus payroll burden.
  4. 2020 Rental Rate Blue Book rates were referenced and considered in preparation of this estimate.





Ardent Job: 193-20

August 27, 2021

Mr. Dara Soum, P.E,  
 Senior Transit Planner/Project Management Coordinator  
 Arlington, VA 22201  
 Tel. (office): 703-228-3202

**Re: Contract No. 20-110-9-6**  
**Ballston MU Metro Station Area Improvements**  
**Arlington County**

Dear Mr. Soum,

Ardent Company hereby submits another change order request for the excavation and removal of existing bus bays and overburden on the underground garage slab.

Due to the close proximity and poor condition of the existing garage slab and waterproofing, the entire existing sidewalk has to be removed by hand with care. Similarly the entire busbay has to be sawcut into small pieces and hauled away. This requires additional care and effort for controlled depth excavation than conventional demolition methods. The table below summarizes our estimation for the excavation needed on N Stuart Street along with the credit for the excavation per original contract line item.

We still have not got directive on how backfill should be done in these excavated areas as conventional compaction methods cannot be practiced if the minimum compaction requirements are not waived off.

Item#	Description	Qty	Unit	Unit Price	Total
CO5-1	Sawcutting and Excavation in Bus bay	1	LS	\$67,784.00	\$67,784.00
CO5-2	Excavation on top of Parking Garage in Stuart Street	1	LS	\$57,188.00	\$57,188.00
8	Excavation and Backfilling For Parking Garage Roof Waterproofing (Sheets WP-1 and WP-2)	2100	CY	-\$60.00	(\$126,000.00)
<b>Total Net Change to Contract</b>					<b>\$ (1,028.00)</b>

Should you have any questions, please do not hesitate to contact me.

Sincerely,  
**Ardent Company, LLC**

A handwritten signature in black ink that reads "Arash Hooshangi".

Arash Hooshangi, P.E.  
 Managing Director

## Cost Breakdown For Sawcutting and Excavation in Bus bay

### Labor & Equipment Costs

#### Labor

Classification	Days	Hours (ST)	Hours (OT)	Rate (hr)	OT Rate (hr)	Total
Foreman	17	8		\$ 43.70		\$ 5,943.20
Laborer	17	8		\$ 25.30		\$ 3,440.80
Laborer	17	8		\$ 24.12		\$ 3,280.32
Laborer	17	8		\$ 24.12		\$ 3,280.32
Laborer	5	8		\$ 24.15		\$ 966.00
Total						\$ 16,910.64

#### Equipment

Equipment	Days	Hours (Active)	Hours (Stby)	Rate (Active)	Rate (Stby)	Total
Backhoe	5	8	0	\$ 35.76		\$ 1,430.40
Pick up Truck, Silverado 1500	17	8	0	\$ 28.26		\$ 3,843.36
Skid Steer, John Deere 317	17	8	0	\$ 29.63		\$ 4,029.68
Service Truck	12	8	0	\$ 35.00		\$ 3,360.00
Concrete Saw	12	8	0	\$ 23.69		\$ 2,274.24
Sweeper	5	8	0	\$ 27.16		\$ 1,086.40
Total						\$ 16,024.08

#### Material

Material	Supplier	Quantity	Unit	Unit Price	Unit Price + Tax	Total
Dump Fee	DC Materials	49	EA	\$ 210.00	\$ 222.60	\$ 10,907.40
Saw Blades		5	EA	\$ 900.00	\$ 954.00	\$ 4,770.00
					\$ -	\$ -
Total						\$ 15,677.40

#### Subcontractor

Work	Sub Contractor	Day	Hours	Rate	Lump Sum	Total
Trucking		16	9	\$ 75.00		\$ 10,800.00
					Allowance (10%)	\$ 1,080.00
Total						\$ 11,880.00

<b>Base Cost (Labor + Equipment + Material)</b>	<b>\$ 48,612.00</b>
<b>Base Cost Overhead and Profit (15%)</b>	<b>\$ 7,291.80</b>
<b>Subcontractor Cost Inc Overhead (10%)</b>	<b>\$ 11,880.00</b>
<b>Total</b>	<b>\$ 67,784.00</b>

## Cost Breakdown For Excavation on top of Parking Garage in Stuart Street

### Labor & Equipment Costs

#### Labor

Classification	Days	Hours (ST)	Hours (OT)	Rate (hr)	OT Rate (hr)	Total
Foreman	16	8		\$ 43.70		\$ 5,593.60
Laborer	16	8		\$ 25.30		\$ 3,238.40
Laborer	16	8		\$ 24.12		\$ 3,087.36
Laborer	16	8		\$ 24.12		\$ 3,087.36
Laborer	16	8		\$ 24.15		\$ 3,091.20
Total						\$ 18,097.92

#### Equipment

Equipment	Days	Hours (Active)	Hours (Stby)	Rate (Active)	Rate (Stby)	Total
Backhoe	16	8	0	\$ 35.76		\$ 4,577.28
Pick up Truck, Silverado 1500	16	8	0	\$ 28.26		\$ 3,617.28
Skid Steer, John Deere 317	16	8	0	\$ 29.63		\$ 3,792.64
Total						\$ 18,496.00

#### Material

Material	Supplier	Quantity	Unit	Unit Price	Unit Price + Tax	Total
Dump Fee	DC Materials	30	EA	\$ 210.00	\$ 222.60	\$ 6,678.00
					\$ -	\$ -
Total						\$ 6,678.00

#### Subcontractor

Work	Sub Contractor	Day	Hours	Rate	Lump Sum	Total
Trucking		10	9	\$ 75.00		\$ 6,750.00
					Allowance (10%)	\$ 675.00
Total						\$ 7,425.00

<b>Base Cost (Labor + Equipment + Material)</b>	<b>\$ 43,272.00</b>
<b>Base Cost Overhead and Profit (15%)</b>	<b>\$ 6,490.80</b>
<b>Subcontractor Cost Inc Overhead (10%)</b>	<b>\$ 7,425.00</b>
<b>Total</b>	<b>\$ 57,188.00</b>

# ARDENT



## STV/County Independent Cost Estimate 09/16/21

Ballston-MU Station Area Improvements Project  
Arlington County, VA

**PCO 15 - Low-Impact Demolition (Sawcutting & Excavation) of N. Stuart St. Concrete Bus Bays atop Parking Garage**

**Description of Change;**

**Additional time to perform demolition with care atop the 901 N. Stuart St. parking garage roof deck slab due to its shallow depth**

Task Description	Quantity	Hours	Unit	Rate	Subtotals	Comments
<b>LABOR</b>						
Foreman	1.00	54.00	Hrs.	\$38.00	\$2,052.00	
Laborer (skilled)	1.00	54.00	Hrs.	\$22.00	\$1,188.00	
Laborer (unskilled)	3.00	54.00	Hrs.	\$21.00	\$3,402.00	
Operator	0.00	0.00	Hrs.	\$23.93	\$0.00	
Dump Truck Driver	0.00	0.00	Hrs.	\$20.34	\$0.00	
Other	0.00	0.00	Hrs.	\$50.00	\$0.00	
Subtotal Labor Base:					\$6,642.00	
Ind. Labor					15.15%	\$1,006.26 15.15% payroll burden
Subtotal Labor:					\$7,648.26	
O&P					15.00%	\$1,147.24
<b>TOTAL LABOR</b>					<b>\$8,795.50</b>	

EQUIPMENT	Quantity	Hours	Unit	Rate	Subtotals	
Excavator	0.00	0.00	Hrs.	\$115.85	\$0.00	
Backhoe	1.00	32.00	Hrs.	\$34.87	\$1,115.84	
Skid Steer	1.00	54.00	Hrs.	\$29.63	\$1,600.02	
Dump Truck (Large)	0.00	0.00	Hrs.	\$97.40	\$0.00	
Dump Truck (Small)	0.00	0.00	Hrs.	\$46.77	\$0.00	
Generator	0.00		Hrs.		\$0.00	
Concrete Saw	1.00	54.00	Hrs.	\$23.69	\$1,279.26	
Sweeper	1.00	32.00	Hrs.	\$27.16	\$869.12	
Service Truck	1.00	54.00	Hrs.	\$31.26	\$1,688.04	
Pickup Truck	1.00	54.00	Hrs.	\$28.26	\$1,526.04	
Subtotal Equipment:					\$8,078.32	
O&P					0.00%	\$0.00
<b>TOTAL EQUIPMENT:</b>					<b>\$8,078.32</b>	

MATERIAL	Quantity	Supplier	Unit	Unit \$	Subtotals	Supplier ( )
Dump Fee	18	See comment	EA	210	\$3,780.00	
Saw Blade	3.00	See comment	EA	\$900.00	\$2,700.00	
	0.00		LS	\$100.00	\$0.00	
	0.00		LS	\$200.00	\$0.00	
	0.00		LS	\$55.00	\$0.00	
Subtotal Material:					\$6,480.00	
Price +6% Tax					\$6,868.80	
O&P					0.00%	\$0.00
<b>TOTAL MATERIAL</b>					<b>\$6,868.80</b>	

SUBCONTRACTOR	(in Day)	Hrs	Unit \$	Subtotals	
Trucking	8.00	8	\$75.00	\$4,800.00	
	0.00		\$0.00	\$0.00	
	0.00		\$0.00	\$0.00	
	0.00		\$0.00	\$0.00	
	0.00		\$0.00	\$0.00	
Subtotal Sub:				\$4,800.00	
O&P				10.00%	\$480.00
<b>TOTAL SUB</b>				<b>\$5,280.00</b>	

SUBTOTAL L+E+M:	\$29,022.62	
Bond	0.00%	\$0.00
<b>TOTAL L+E+M+S:</b>	<b>\$29,022.62</b>	
Roundup Each (Unit):	\$29,023.00	
Total Each (Unit):	1	
<b>CO TOTAL:</b>	<b>\$ 29,023.00</b>	

Created by: S. Salihi, E.I.T, Resident Engineer,  
Checked by: A. Ronca, PE 9/16/2021

**Notes:**

1. 7 days time was considered for the estimated task.
2. Production rate and crew size was based on current crew size for similar work.
3. Trade rates reflect effective payroll rates, plus payroll burden.
4. 2020 Rental Rate Blue Book rates were referenced and considered in preparation of this estimate.

# ARDENT



## STV/County Independent Cost Estimate 09/16/21

Ballston-MU Station Area Improvements Project  
Arlington County, VA

**PCO 15 - Low-Impact Demolition (Excavation) of N. Stuart St. Sidewalk atop Parking Garage**

**Description of Change;**

**Additional time to perform demolition with care atop the 901 N. Stuart St. parking garage roof deck slab due to its shallow depth**

<u>Task Description</u>	<u>Quantity</u>	<u>Hours</u>	<u>Unit</u>	<u>Rate</u>	<u>Subtotals</u>	<u>Comments</u>
<b>LABOR</b>						
Foreman	1.00	72.00	Hrs.	\$38.00	\$2,736.00	
Laborer (skilled)	1.00	72.00	Hrs.	\$22.00	\$1,584.00	
Laborer (unskilled)	3.00	72.00	Hrs.	\$21.00	\$4,536.00	
Operator	0.00	0.00	Hrs.	\$23.93	\$0.00	
Dump Truck Driver	0.00	0.00	Hrs.	\$20.34	\$0.00	
Other	0.00	0.00	Hrs.	\$50.00	\$0.00	
Subtotal Labor Base:					\$8,856.00	
Ind. Labor					15.15%	\$1,341.68 15.15% payroll burden
Subtotal Labor:					\$10,197.68	
O&P					15.00%	\$1,529.65
<b>TOTAL LABOR</b>					<b>\$11,727.34</b>	

<u>EQUIPMENT</u>	<u>Quantity</u>	<u>Hours</u>	<u>Unit</u>	<u>Rate</u>	<u>Subtotals</u>	
Excavator	0.00	0.00	Hrs.	\$115.85	\$0.00	
Backhoe	1.00	64.00	Hrs.	\$34.87	\$2,231.68	
Skid Steer	1.00	64.00	Hrs.	\$29.63	\$1,896.32	
Dump Truck (Large)	0.00	0.00	Hrs.	\$97.40	\$0.00	
Dump Truck (Small)	0.00	0.00	Hrs.	\$46.77	\$0.00	
Generator	0.00		Hrs.		\$0.00	
Concrete Saw	0.00	0.00	Hrs.	\$23.69	\$0.00	
Sweeper	0.00	0.00	Hrs.	\$27.16	\$0.00	
Service Truck	0.00	0.00	Hrs.	\$35.00	\$0.00	
Pickup Truck	1.00	72.00	Hrs.	\$28.26	\$2,034.72	
Subtotal Equipment:					\$6,162.72	
O&P					0.00%	\$0.00
<b>TOTAL EQUIPMENT:</b>					<b>\$6,162.72</b>	

<u>MATERIAL</u>	<u>Quantity</u>	<u>Supplier</u>	<u>Unit</u>	<u>Unit \$</u>	<u>Subtotals</u>	
Dump Fee	18	See comment	EA	210	\$3,780.00	
	0.00		LS	\$100.00	\$0.00	
	0.00		LS	\$200.00	\$0.00	
	0.00		LS	\$55.00	\$0.00	
Subtotal Material:					\$3,780.00	
Price +6% Tax					\$4,006.80	
O&P					0.00%	\$0.00
<b>TOTAL MATERIAL</b>					<b>\$4,006.80</b>	

<u>SUBCONTRACTOR</u>	<u>(in Day)</u>	<u>Hrs</u>	<u>Unit \$</u>	<u>Subtotals</u>	
Trucking	8.00	8	\$75.00	\$4,800.00	
	0.00		\$0.00	\$0.00	
	0.00		\$0.00	\$0.00	
	0.00		\$0.00	\$0.00	
	0.00		\$0.00	\$0.00	
Subtotal Sub:				\$4,800.00	
O&P				10.00%	\$480.00
<b>TOTAL SUB</b>				<b>\$5,280.00</b>	

SUBTOTAL L+E+M:	\$27,176.86	
Bond	0.00%	\$0.00
<b>TOTAL L+E+M+S:</b>	<b>\$27,176.86</b>	
Roundup Each (Unit):	\$27,177.00	
Total Each (Unit):	1	
<b>CO TOTAL:</b>	<b>\$ 27,177.00</b>	

Created by: S. Salihi, E.I.T, Resident Engineer,  
Checked by: A. Ronca, PE 9/16/2021

**Notes:**

1. 9 days time was considered for the estimated task.
2. Production rate and crew size was based on current crew size for similar work.
3. Trade rates reflect effective payroll rates, plus payroll burden.
4. 2020 Rental Rate Blue Book rates were referenced and considered in preparation of this estimate.

**Section E. Unused Items-Attachment A**

## Attachment A

**Contract No. 20-110-9-6**

**Ballstons MU Metro**

**Proposed Change Order No. 15 Decreased Items**

Bid Item No.	Item Description	Unit	Unit Price	Original Quantity	Previous Quantity Adjustment	Decrease		Total Amount
						This CO	Unit Price	
8	Excavation and Backfilling For Parking Garage Roof Waterproofing (Sheets WP1 & WP2)	CY	\$ 60.00	2,100.00	0.00	(2,100.00)	\$ 60.00	\$ (126,000.00)
<b>Total Net Amount</b>								<b>\$ (126,000.00)</b>



www.equipmentwatch.com

All prices shown in US\$

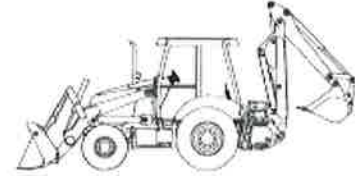
**Rental Rate Blue Book®**

June 18, 2019

**Deere 310G (disc. 2007)**

Tractor-Loader-Backhoes

Size Class:  
**14' to Under 15'**  
 Weight:  
**13170 feet**

**Configuration for 310G (disc. 2007)**

Drive	<b>4WD</b>	Loader Bucket Capacity-Heaped	<b>1.0 cu yd</b>
Net Horsepower	<b>70.0 hp</b>	Operator Protection	<b>ROPS/FOPS</b>
Power Mode	<b>Diesel</b>		

**Blue Book Rates**

\*\* FHWA Rate is equal to the monthly ownership cost divided by 176 plus the hourly estimated operating cost.

	Ownership Costs				Estimated Operating Costs Hourly	FHWA Rate** Hourly
	Monthly	Weekly	Daily	Hourly		
Published Rates	\$2,655.00	\$745.00	\$185.00	\$28.00	\$18.85	\$33.94
<b>Adjustments</b>						
Region ( Washington, District of Columbia: 106.2%)	\$164.61	\$46.19	\$11.47	\$1.74		
Model Year (2007: 100%)	-	-	-	-		
Adjusted Hourly Ownership Cost (100%)	-	-	-	-		
Hourly Operating Cost (100%)						
<b>Total:</b>	<b>\$2,819.61</b>	<b>\$791.19</b>	<b>\$196.47</b>	<b>\$29.74</b>	<b>\$18.85</b>	<b>\$34.87</b>

**Non-Active Use Rates**

Standby Rate	Hourly	\$8.49
Idling Rate		\$24.92

**Rate Element Allocation**

Element	Percentage	Value
Depreciation (ownership)	33%	\$876.15/mo
Overhaul (ownership)	47%	\$1,247.85/mo
CFC (ownership)	11%	\$292.05/mo
Indirect (ownership)	9%	\$238.95/mo
Fuel (operating) @ 3.27	47%	\$8.90/hr

Revised Date: 1st half 2019

These are the most accurate rates for the selected Revision Date(s). However, due to more frequent online updates, these rates may not match Rental Rate Blue Book Print. Visit the Cost Recovery Product Guide on our Help page for more information.

The equipment represented in this report has been exclusively prepared for ARASH HOOSHANGI (ardentbox-user@yahoo.com)





www.equipmentwatch.com

All prices shown in US\$

## Adjustments for Foreman's Truck in Foreman's Truck

June 29, 2018

### Miscellaneous 4X4 1 3/4 362 CONV GAS

On-Highway Light Duty Trucks

Size Class:  
**300 HP & Over**  
 Weight:  
**N/A**



### Configuration for 4X4 1 3/4 362 CONV GAS

Axle Configuration	<b>4X4</b>	Power Mode	<b>Gasoline</b>
Horsepower	<b>362</b>	Cab Type	<b>Conventional</b>
Ton Rating	<b>1 3/4</b>		

### Blue Book Rates

\*\* FHWA Rate is equal to the monthly ownership cost divided by 176 plus the hourly estimated operating cost.

	Ownership Costs				Estimated Operating Costs Hourly	FHWA Rate** Hourly
	Monthly	Weekly	Daily	Hourly		
Published Rates	\$1,225.00	\$345.00	\$86.00	\$13.00	\$20.80	\$27.76
<b>Adjustments</b>						
Region ( Washington, District of Columbia: 107.2%)	\$88.20	\$24.84	\$6.19	\$0.94		
Model Year (2018: 100%)	-	-	-	-		
Adjusted Hourly Ownership Cost (100%)	-	-	-	-		
Hourly Operating Cost (100%)					-	
<b>Total:</b>	<b>\$1,313.20</b>	<b>\$369.84</b>	<b>\$92.19</b>	<b>\$13.94</b>	<b>\$20.80</b>	<b>\$28.26</b>

### Non-Active Use Rates

	Hourly
Standby Rate	\$5.30
Idling Rate	\$23.62

### Rate Element Allocation

Element	Percentage	Value
Depreciation (ownership)	56%	\$686.00/mo
Overhaul (ownership)	29%	\$355.25/mo
CFC (ownership)	5%	\$61.25/mo
Indirect (ownership)	10%	\$122.50/mo
Fuel (operating) @ 2.35	78%	\$16.16/hr

Revised Date: 1st Half 2018

These are the most accurate rates for the selected Revision Date(s). However, due to more frequent online updates, these rates may not match Rental Rate Blue Book Print. Visit the Cost Recovery Product Guide on our Help page for more information.

The equipment represented in this report has been exclusively prepared for ARASH HOOSHANGI (ardentbox-user@yahoo.com)



www.equipmentwatch.com

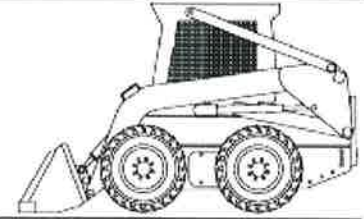
All prices shown in US\$

## Adjustments for Skid Steer 317 in Skid

July 5, 2018

### Deere 317 (disc. 2010) Skid Steer Loaders

Size Class:  
1601 - 1750 lbs  
Weight:  
6,300 lbs.



### Configuration for 317 (disc. 2010)

Power Mode	<b>Diesel</b>	Net Horsepower	<b>57 hp</b>
Operator Protection	<b>ROPS</b>	Operating Capacity (SAE)	<b>1750 lbs</b>

### Blue Book Rates

\*\* FHWA Rate is equal to the monthly ownership cost divided by 176 plus the hourly estimated operating cost.

	Ownership Costs				Estimated Operating Costs Hourly	FHWA Rate** Hourly
	Monthly	Weekly	Daily	Hourly		
Published Rates	\$2,425.00	\$680.00	\$170.00	\$26.00	\$15.00	\$28.78
<b>Adjustments</b>						
Region ( Washington, District of Columbia: 106.2%)	\$150.35	\$42.16	\$10.54	\$1.61		
Model Year (2010: 100%)	-	-	-	-		
Adjusted Hourly Ownership Cost (100%)	-	-	-	-		
Hourly Operating Cost (100%)						
<b>Total:</b>	<b>\$2,575.35</b>	<b>\$722.16</b>	<b>\$180.54</b>	<b>\$27.61</b>	<b>\$15.00</b>	<b>\$29.63</b>

### Non-Active Use Rates

	Hourly
Standby Rate	\$4.98
Idling Rate	\$20.98

### Rate Element Allocation

Element	Percentage	Value
Depreciation (ownership)	22%	\$533.50/mo
Overhaul (ownership)	66%	\$1,600.50/mo
CFC (ownership)	4%	\$97.00/mo
Indirect (ownership)	8%	\$194.00/mo
Fuel (operating) @ 3.01	42%	\$6.35/hr

Revised Date: 2nd Half 2018

These are the most accurate rates for the selected Revision Date(s). However, due to more frequent online updates, these rates may not match Rental Rate Blue Book Print. Visit the Cost Recovery Product Guide on our Help page for more information.

The equipment represented in this report has been exclusively prepared for ARASH HOOSHANGI (ardentbox-user@yahoo.com)



www.equipmentwatch.com

All prices shown in US\$

## Adjustments for 26" Saw in Concrete Saw

June 29, 2018

### Miscellaneous 7-20SPC

Concrete Saws

Size Class:  
**19 - 36 HP**  
 Weight:  
**N/A**



### Configuration for 7-20SPC

Blade Capacity Diameter	<b>20 in</b>	Blade Capacity Diameter	<b>20 in</b>
Type	<b>Concrete</b>	Type	<b>Concrete</b>
Horsepower	<b>65</b>	Horsepower	<b>65</b>
Maximum Cutting Depth	<b>7.5</b>	Maximum Cutting Depth	<b>7.5</b>

### Blue Book Rates

\*\* FHWA Rate is equal to the monthly ownership cost divided by 176 plus the hourly estimated operating cost.

	Ownership Costs				Estimated Operating Costs Hourly	FHWA Rate** Hourly
	Monthly	Weekly	Daily	Hourly		
Published Rates	\$1,210.00	\$340.00	\$85.00	\$13.00	\$16.40	\$23.28
<b>Adjustments</b>						
Region ( Washington, District of Columbia: 106%)	\$72.60	\$20.40	\$5.10	\$0.78		
Model Year (2018: 100%)	-	-	-	-		
Adjusted Hourly Ownership Cost (100%)	-	-	-	-		
Hourly Operating Cost (100%)	-	-	-	-		
<b>Total:</b>	<b>\$1,282.60</b>	<b>\$360.40</b>	<b>\$90.10</b>	<b>\$13.78</b>	<b>\$16.40</b>	<b>\$23.69</b>

### Non-Active Use Rates

	Hourly
Standby Rate	\$4.08
Idling Rate	\$19.22

### Rate Element Allocation

Element	Percentage	Value
Depreciation (ownership)	44%	\$532.40/mo
Overhaul (ownership)	44%	\$532.40/mo
CFC (ownership)	4%	\$48.40/mo
Indirect (ownership)	8%	\$96.80/mo
Fuel (operating) @ 2.35	73%	\$11.93/hr

Revised Date: 1st Half 2018

These are the most accurate rates for the selected Revision Date(s). However, due to more frequent online updates, these rates may not match Rental Rate Blue Book Print. Visit the Cost Recovery Product Guide on our Help page for more information.

The equipment represented in this report has been exclusively prepared for ARASH HOOSHANGI (ardentbox-user@yahoo.com)



www.equipmentwatch.com

All prices shown in US\$

## Rental Rate Blue Book®

June 10, 2019

### Komatsu PC220LC-6 (disc. 2001)

Crawler Mounted Hydraulic Excavators



Size Class:  
24.1 - 28.0 MTons  
Weight:  
53364 MT

### Configuration for PC220LC-6 (disc. 2001)

Bucket Capacity - Heaped	1.5 cu yd	Net Horsepower	158.0 hp
Operating Weight	24.2 mt	Power Mode	Diesel

### Blue Book Rates

\*\* FHWA Rate is equal to the monthly ownership cost divided by 176 plus the hourly estimated operating cost.

	Ownership Costs				Estimated Operating Costs Hourly	FHWA Rate** Hourly
	Monthly	Weekly	Daily	Hourly		
Published Rates	\$9,655.00	\$2,705.00	\$675.00	\$100.00	\$57.15	\$112.01
<b>Adjustments</b>						
Region ( Washington, District of Columbia: 107%)	\$675.85	\$189.35	\$47.25	\$7.00		
Model Year (2001: 100%)	-	-	-	-		
Adjusted Hourly Ownership Cost (100%)	-	-	-	-		
Hourly Operating Cost (100%)	-	-	-	-		
<b>Total:</b>	<b>\$10,330.85</b>	<b>\$2,894.35</b>	<b>\$722.25</b>	<b>\$107.00</b>	<b>\$57.15</b>	<b>\$115.85</b>

### Non-Active Use Rates

	Hourly
Standby Rate	\$30.52
Idling Rate	\$80.40

### Rate Element Allocation

Element	Percentage	Value
Depreciation (ownership)	36%	\$3,475.80/mo
Overhaul (ownership)	48%	\$4,634.40/mo
CFC (ownership)	9%	\$868.95/mo
Indirect (ownership)	7%	\$675.85/mo
Fuel (operating) @ 3.27	38%	\$21.70/hr

Revised Date: 1st half 2019

These are the most accurate rates for the selected Revision Date(s). However, due to more frequent online updates, these rates may not match Rental Rate Blue Book Print. Visit the Cost Recovery Product Guide on our Help page for more information.

The equipment represented in this report has been exclusively prepared for ARASH HOOSHANGI (ardentbox-user@yahoo.com)



www.equipmentwatch.com

All prices shown in US\$

## Adjustments for Ardent609 in All Saved Models

June 20, 2019

### Ford F-350 Service Truck

On-Highway Light Duty Trucks

Size Class:  
**300 HP & Over**  
 Weight:  
**HP**



### Configuration for F-350

Axle Configuration	<b>4.0 X 4.0</b>	Cab Type	<b>Crew</b>
Horsepower	<b>385.0 hp</b>	Power Mode	<b>Gasoline</b>
Ton Rating	<b>1.0</b>		

### Blue Book Rates

\*\* FHWA Rate is equal to the monthly ownership cost divided by 176 plus the hourly estimated operating cost.

	Ownership Costs				Estimated Operating Costs Hourly	FHWA Rate** Hourly
	Monthly	Weekly	Daily	Hourly		
Published Rates	\$1,060.00	\$295.00	\$74.00	\$11.00	\$24.80	\$30.82
<b>Adjustments</b>						
Region ( Washington, District of Columbia: 107.2%)	\$76.32	\$21.24	\$5.33	\$0.79		
Model Year (2019: 100%)	-	-	-	-		
Adjusted Hourly Ownership Cost (100%)	-	-	-	-		
Hourly Operating Cost (100%)					-	
<b>Total:</b>	<b>\$1,136.32</b>	<b>\$316.24</b>	<b>\$79.33</b>	<b>\$11.79</b>	<b>\$24.80</b>	<b>\$31.26</b>

### Non-Active Use Rates

Standby Rate	Hourly	\$4.58
Idling Rate		\$26.58

### Rate Element Allocation

Element	Percentage	Value
Depreciation (ownership)	54%	\$572.40/mo
Overhaul (ownership)	29%	\$307.40/mo
CFC (ownership)	7%	\$74.20/mo
Indirect (ownership)	10%	\$106.00/mo
Fuel (operating) @ 2.75	81%	\$20.12/hr

Revised Date: 1st half 2019

These are the most accurate rates for the selected Revision Date(s). However, due to more frequent online updates, these rates may not match Rental Rate Blue Book Print. Visit the Cost Recovery Product Guide on our Help page for more information.

The equipment represented in this report has been exclusively prepared for ARASH HOOSHANGI (ardentbox-user@yahoo.com)



www.equipmentwatch.com

All prices shown in US\$

**Rental Rate Blue Book®**

June 25, 2019

**Miscellaneous 8X4 18YD 85KGWV**

On-Highway Rear Dumps

Size Class:  
**60,001 GVW & Over**  
 Weight:  
**21021 lbs**

**Configuration for 8X4 18YD 85KGWV**

Axle Configuration	<b>8X4</b>	Horsepower	<b>450.0</b>
Maximum Gross Vehicle Weight	<b>85000.0 lbs</b>	Power Mode	<b>Diesel</b>
Struck Capacity	<b>15.0 - 18.0 cu yd</b>		

**Blue Book Rates**

\*\* FHWA Rate is equal to the monthly ownership cost divided by 176 plus the hourly estimated operating cost.

	Ownership Costs				Estimated Operating Costs Hourly	FHWA Rate** Hourly
	Monthly	Weekly	Daily	Hourly		
Published Rates	\$5,665.00	\$1,585.00	\$395.00	\$59.00	\$62.90	\$95.09
<b>Adjustments</b>						
Region ( Washington, District of Columbia: 107.2%)	\$407.88	\$114.12	\$28.44	\$4.25		
Model Year (2019: 100%)	-	-	-	-		
Adjusted Hourly Ownership Cost (100%)	-	-	-	-		
Hourly Operating Cost (100%)					-	
<b>Total:</b>	<b>\$6,072.88</b>	<b>\$1,699.12</b>	<b>\$423.44</b>	<b>\$63.25</b>	<b>\$62.90</b>	<b>\$97.40</b>

**Non-Active Use Rates**

	<b>Hourly</b>
Standby Rate	\$23.81
Idling Rate	\$75.71

**Rate Element Allocation**

Element	Percentage	Value
Depreciation (ownership)	50%	\$2,832.50/mo
Overhaul (ownership)	31%	\$1,756.15/mo
CFC (ownership)	8%	\$453.20/mo
Indirect (ownership)	11%	\$623.15/mo
Fuel (operating) @ 3.27	66%	\$41.20/hr

Revised Date: 1st half 2019

These are the most accurate rates for the selected Revision Date(s). However, due to more frequent online updates, these rates may not match Rental Rate Blue Book Print. Visit the Cost Recovery Product Guide on our Help page for more information.

The equipment represented in this report has been exclusively prepared for ARASH HOOSHANGI (ardentbox-user@yahoo.com)



www.equipmentwatch.com

All prices shown in US\$

## Rental Rate Blue Book®

June 25, 2019

### Miscellaneous 4X4 8YD DSL

On-Highway Rear Dumps

Size Class:  
**26,001 - 33,000 GVW**  
 Weight:  
**9700 lbs**



### Configuration for 4X4 8YD DSL

Axle Configuration	<b>4X4</b>	Horsepower	<b>217.0</b>
Maximum Gross Vehicle Weight	<b>30000.0 lbs</b>	Power Mode	<b>Diesel</b>
Struck Capacity	<b>7.0 - 8.0 cu yd</b>		

### Blue Book Rates

\*\* FHWA Rate is equal to the monthly ownership cost divided by 176 plus the hourly estimated operating cost.

	Ownership Costs				Estimated Operating Costs Hourly	FHWA Rate** Hourly
	Monthly	Weekly	Daily	Hourly		
Published Rates	\$2,720.00	\$760.00	\$190.00	\$29.00	\$30.20	\$45.65
<b>Adjustments</b>						
Region ( Washington, District of Columbia: 107.2%)	\$195.84	\$54.72	\$13.68	\$2.09		
Model Year (2019: 100%)	-	-	-	-		
Adjusted Hourly Ownership Cost (100%)	-	-	-	-		
Hourly Operating Cost (100%)					-	
<b>Total:</b>	<b>\$2,915.84</b>	<b>\$814.72</b>	<b>\$203.68</b>	<b>\$31.09</b>	<b>\$30.20</b>	<b>\$46.77</b>

### Non-Active Use Rates

Standby Rate	Hourly	\$11.43
Idling Rate		\$36.44

### Rate Element Allocation

Element	Percentage	Value
Depreciation (ownership)	50%	\$1,360.00/mo
Overhaul (ownership)	31%	\$843.20/mo
CFC (ownership)	8%	\$217.60/mo
Indirect (ownership)	11%	\$299.20/mo
Fuel (operating) @ 3.27	66%	\$19.87/hr

Revised Date: 1st half 2019

These are the most accurate rates for the selected Revision Date(s). However, due to more frequent online updates, these rates may not match Rental Rate Blue Book Print. Visit the Cost Recovery Product Guide on our Help page for more information.

The equipment represented in this report has been exclusively prepared for ARASH HOOSHANGI (ardentbox-user@yahoo.com)

## **CO 06 Backup Documentation**

**CO 06 Includes:**

- **PCO 16 – Add seven (7) new items: N. Stuart Curb Height Change, Spread Street Light Foundation, Spread Flag Sign Foundation, Spread WMATA Pylon Foundation, SD Structure No. 1 Field Modification, 18 inch Streetlight Junction Box, 18 inch Bus Shelter Junction Box Unusable JBs; Increase one (1) existing pay item: “Adjust Sanitary MH” by 11 EA; Remove twelve (12) existing pay items.**
- **PCO 17 – Installation of Grate, Inlet, MH and RCP.**
- **PCO 18 – Lean Concrete Removal.**

**Section A. Memorandum of Negotiations**

**Section B. Itemized Final Negotiation Breakdown (PCO 16, PCO 17 & PCO 18)**

**Section C. Pencil Copy (Working) Markups for Each Party’s Estimate (PCO 16, PCO 17 & PCO 18)**

**Section D. Original Party Estimate (PCO 16, PCO 17 & PCO 18)**

**Section E. Attachment A**



## **Section A. Memorandum of Negotiations**



**Ballston-MU Station Area Improvements Project  
MEMORANDUM OF NEGOTIATIONS**

**CHANGE ORDER No. 6 – Add ten (10) new items:; N. Stuart Curb Height Change, Spread Street Light Foundation, Spread Flag Sign Foundation, Spread WMATA Pylon Foundation, SD Structure No. 1 Field Modification, 18 inch Streetlight Junction Box, 18 inch Bus Shelter Junction Box Unusable JBs; Installation of Grate, Inlet, MH and RCP; and Lean Concrete Removal; Increase one (1) existing pay item: “Adjust Sanitary MH” by 11 EA; Remove twelve (12) existing pay items(see full list below) from Pay Item lists.**

**CONTRACT No:** 20-110-9-6

**DATE:** 10/11/21

1. **PROJECT:** Ballston-MU Station Area Improvements Project

2. **REASON FOR CHANGE ORDER:** See Remarks below.

3. **ARLINGTON COUNTY ESTIMATE (ACE):**

Amount:	<u>\$46,481.00</u>	Date: 10/08/21
---------	--------------------	----------------

4. **CONTRACTOR’S PROPOSAL (CP):**

Amount:	<u>\$132,930.50</u>	Date: 10/07/21
---------	---------------------	----------------

5. **NEGOTIATIONS:**

Amount: New Items (10):	\$123,230.50	
Increased of Ex. Items (1):	\$14,619.00	
Deleted Item (1):	<u>(\$50,730.00)</u>	
	<u>\$87,119.50</u>	Date: 10/11/21

## 6. REMARKS:

### Item No. 1 (PCO 16) – N. Stuart Curb Height Change (New Item):

- Reason for Change Order: The N. Stuart St. Redesign Package (hereafter referred to as NSSR) included an increase of the curb height from 6 to 8 inches. As a result, a price proposal was requested from Ardent for the increase in work to modify curb height from 6 to 8 inches.
- Negotiation Recap: Held 09/128/21: Bijay Subedi (PM) and Vivek Thukral (Sr. PM) representing Ardent (Contractor); Alfonso Ronca (PM) and Sekander Salihi (RE) representing Arlington County met virtually and presented each party's estimate for this item: Arlington County Estimate (ACE) = \$1,182.00; Contractor's Proposal (CP) = \$1,678.00

The parties discussed the specifics of this change in order to ensure there was a mutual understanding of the scope of work. Both parties negotiated and acknowledged the following:

- (1) The 6 CP labor hours were high and estimated a productivity rate lower than the ACE.
- (2) The ACE and CP estimated varying equipment usage/hours and materials and agreed that some equipment was or was not needed/other equipment hours should be adjusted.

Based on these acknowledgements, the CP and ACE agreed to compromise midway on the labor hours required (4 hours). As result, both parties arrived at a price of \$1,343.00 LS to modify the curb height from 6 to 8-inches with a 0 CD extension of the contract duration.

### Item No. 2 (PCO 16) – Spread Street-Light Foundation (New Item):

- Reason for Change Order: Due to the close proximity of the 901 N. Stuart St. parking garage roof deck slab to the sidewalk surface between 9<sup>th</sup> St. and Fairfax Dr. within the Phase 2 limits, the 8 streetlight foundations cannot be constructed per Arlington County standard depths so spread foundations were designed as part of the NSSR and a price proposal was requested from Ardent for the revised design
- Negotiation Recap: Held 09/28/21: Bijay Subedi (PM) Ardent (Contractor); Alfonso Ronca (PM) and Sekander Salihi (RE) representing Arlington County met virtually and presented each party's estimate for this item: Arlington County Estimate (ACE = \$4,494.00 EA; Contractor's Proposal (CP) = \$6,518.00 EA.

The parties discussed specifics of this change to ensure that there was a mutual understanding of the scope of work involved. Both parties negotiated and acknowledged the following:

- (1) The CP was short 1 service truck @ 12 Hrs.
- (2) The CP inadvertently calculated \$200 in extra cost for the colored-concrete price difference
- (3) The 16 CP labor hours were excessive and estimated a productivity rate lower than the ACE.

Based on these acknowledgements, the CP and ACE agreed: to compromise midway on the labor hours required (12 hours) for (1) unit of spreader streetlight foundation and agreed on to add (1) service truck for 12 hrs. As result, the parties agreed that vendor quotes would be used for the rebar and anchor bolts estimate. As result, the parties arrived at a unit price of \$5,913.00 for each spread footer modification for a total of \$47,304.00 for 8 spreader streetlight foundations.

**Item No. 3 (PCO 16) – Spread Flag Sign Foundation (New Item):**

- Reason for Change Order: It was determined that this foundation should use colored concrete due to the NSSR, so a price proposal was requested from Ardent for the difference in cost. In addition, Ardent requested these foundations be paid as a new item to be paid per EA instead of per CY per the bid item for regular foundation.
- Negotiation Recap: Held 09/28/21: Bijay Subedi (PM) and Vivek Thukral (Sr. PM) representing Ardent (Contractor); Alfonso Ronca (PM) and Sekander Salihi (RE) representing Arlington County met virtually and presented each party's estimate for this item: Arlington County Estimate (ACE) = \$398.00 EA; Contractor's Proposal (CP) = \$6,518.00 EA.

The parties discussed specifics of this change to ensure that there was a mutual understanding of the scope of work involved. Both parties negotiated and acknowledged the following:

- (1) Revision of foundation to spread-type does not alter construction methods in such a way to warrant changing payment method to EA from CY.
- (2) Increased cost of materials cannot be used as a vehicle to request an increase in pricing because Ardent is still under its original contract
- (3) Ardent can will be only compensated for price difference between colored and regular concrete.
- (4) Ardent is entitled to 2 hrs time compensation due to the need to use lightweight methods to carefully construct the foundations atop the shallow parking garage roof slab.

Based on these acknowledgements, the parties agreed to add two (2) hrs additional time for labor and equipment to the CP; and to compensate the CP for price difference between colored concrete and regular concrete. As result, the parties arrived at a unit price of \$1,005.00 EA for a total of \$4,020.00 for the 4 spread flag foundations with 1 CD extension of the contract duration.

**Item No. 4 (PCO 16) – Spread WMATA Pylon Foundation (New Item):**

- Reason for Change Order: A WMATA pylon footing design was omitted from the original Contract Plans. As a result, RFI 14 was submitted for a detailed design per WMATA standards, reviewed and approved by the WMATA on 06/16/2021 during the NSSR phase, and a price proposal was requested from Ardent for this new item.
- Negotiation Recap: Held 09/28/21: Bijay Subedi (PM) Ardent (Contractor); Alfonso Ronca (PM) and Sekander Salihi (RE) representing Arlington County met virtually and presented each party's estimate for this item: Arlington County Estimate (ACE) = \$3,885.00 EA; Contractor's Proposal (CP) = \$6,108.00 EA.

The parties discussed specifics of this change to ensure that there was a mutual understanding of the scope of work involved. Both parties negotiated and acknowledged the following:

- (1) The CP was short 1 service truck.
- (2) The 16 CP labor hours were excessive and estimated a productivity rate lower than the ACE.

Based on these acknowledgements, the CP and ACE agreed: to compromise midway to 12 hours for labors required; to add 1 service truck; and to use vendor quotes for rebar and anchor bolts. As result, the parties arrived at a unit price of \$5,020.00 EA.

**Item No. 5 (PCO 16) – SD Structure No. 1 Field Modification (New Item):**

- Reason for Change Order: The NSSR required that this structure (Sheet 18 of 68) to be constructed as part of the Phase 2 SD upgrades be modified to match revised proposed grades, and Ardent was requested to submit a price proposal to perform the work.
- Negotiation Recap: Held 09/28/21: Bijay Subedi (PM) and Vivek Thukral (Sr. PM) representing Ardent (Contractor); Alfonso Ronca (PM) and Sekander Salihi (RE) representing Arlington County met virtually and presented each party's estimate for this item: Arlington County Estimate (ACE) = \$3,921.00 LS; Contractor's Proposal (CP) = \$6,708.00 LS.

The parties discussed specifics of this change to ensure that there was a mutual understanding of the scope of work involved. Both parties negotiated and acknowledged the following:

- (1) The CP was short 1 service truck.
- (2) The ACE and CP estimated varying equipment usage/hours and materials and agreed that some equipment was or was not needed/other equipment hours should be adjusted.

Based on these acknowledgements, the CP and ACE agreed: to add 1 service truck to the CP for 16 hrs; to reduce CP backhoe hours to 8, CP skid steer hours to 12, and CP concrete saw hours to 8; and to, the parties agreed that vendor quotes would be used for rebar and frame and cover angle materials. As a result, the parties arrived at a unit price of \$6,425.00 EA.

**Item No. 6 (PCO 16) – 18-inch Streetlight Junction Box (New Item):**

- Reason for Change Order: Due to the close proximity of the 901 N. Stuart St. parking garage roof deck slab to the sidewalk surface between 9<sup>th</sup> St. and Fairfax Dr. within the Phase 2 limits, original larger sized comm. handhold/JBs (Arl. Cty. Standard TS4-6) for streetlights per Submittal 8 cannot be installed due to shallow depths. Per the NSSR, smaller 18" JB's per Arlington County Standards were considered and approved via Submittal 38, and Ardent was requested to submit a price proposal to install the smaller JB's.
- Negotiation Recap: Held 09/28/21: Bijay Subedi (PM) and Vivek Thukral (Sr. PM) representing Ardent (Contractor); Alfonso Ronca (PM) and Sekander Salihi (RE) representing Arlington County met virtually and presented each party's estimate for this item: Arlington County Estimate (ACE) = \$1818.00 EA; Contractor's Proposal (CP) = \$2,326.00 EA.

The parties discussed specifics of this change to ensure that there was a mutual understanding of the scope of work involved. Both parties negotiated and acknowledged the following:

- (1) The 5 CP labor hours were excessive and estimated a lower productivity rate than ACE.
- (2) The CP was short 1 service truck.
- (3) The ACE and CP estimated varying equipment usage/hours and materials and agreed that some equipment was or was not needed/other equipment hours should be adjusted.

Based on these acknowledgements, the CP and ACE agreed: to add 1 service truck to the CP for 4 hrs; to reduced CP skid steer and pick-up truck hours to 4; and to use vendor quotes for materials. As a result, the parties arrived at a unit price of \$2,288.00 EA.

**Item No. 7 (PCO 16) – 18-inch Bus Shelter Junction Box (New Item):**

- Reason for Change Order: Due to the close proximity of the 901 N. Stuart St. parking garage roof deck slab to the sidewalk surface between 9<sup>th</sup> St. and Fairfax Dr. within the Phase 2 limits, original larger sized comm. handhold/JBs (Arl. Cty. Standard TS4-6) for bus shelters per Submittal 8 cannot be installed due to shallow depths. Per the NSSR, smaller 18" JB's per Arlington County Standards were considered and approved via Submittal 38, and Ardent was requested to submit a price proposal to install the smaller JB's.
- Negotiation Recap: Held 09/28/21: Bijay Subedi (PM) and Vivek Thukral (Sr. PM) representing Ardent (Contractor); Alfonso Ronca (PM) and Sekander Salihi (RE) representing Arlington County met virtually and presented each party's estimate for this item: Arlington County Estimate (ACE) = \$1818.00 EA; Contractor's Proposal (CP) = \$2,326.00 EA.

The parties discussed specifics of this change to ensure that there was a mutual understanding of the scope of work involved. Both parties negotiated and acknowledged the following:

- (1) The 5 CP labor hours were excessive and estimated a lower productivity rate than ACE.
- (2) The CP was short 1 service truck.
- (3) The ACE and CP estimated varying equipment usage/hours and materials and agreed that some equipment was or was not needed/other equipment hours should be adjusted.

Based on acknowledgements, the CP and ACE agreed: to add 1 service truck to the CP for 4 hrs; to reduced CP skid steer and pick-up truck hours to 4; and to use vendor quotes for materials. As a result, the parties arrived at a unit price of \$2,288.00 EA for a total of 4,576.00 for 2 bus shelter JB's.

**Item No. 8 (PCO 16) – Unusable Bus Shelter Junction Boxes (New Item):**

- Reason for Change Order: Due to the addition of Items 6 & 7 above, original larger sized comm. handhold/JBs (Arl. Cty. Standard TS4-6) are no longer needed and will be removed from the contract, but Ardent shall be compensated for the purchase. The JB's will be accepted by the County and delivered to the County yard by Ardent. As a result, Ardent was requested to submit a price proposal for these unusable materials.
- Negotiation Recap: Based on these acknowledgements a negotiation was not necessary and Ardent will be paid only for original cost of these JB's at a unit price of \$437.50 EA for a total of \$1,312.50 for 3 units.

**Item No. 9 (PCO 17) – Installation of Grate Inlet, MH and RCP (New Item):**

- Reason for Change Order: Grade changes and adjustments made per the NSSR resulted in a low point at the NE corner of N. Stuart St. & 9<sup>th</sup> St. N. where the new curb meeting existing curb. On 9/2/21 and in response to RFI 43, direction was provided by Parsons (EOR) to install a new stormdrain inlet, manhole and pipe to capture flow in this area, so a price proposal was requested from Ardent to include cost of this new work.
- Negotiation Recap: Held 09/28/21: Bijay Subedi (PM) and Vivek Thukral (Sr. PM) representing Ardent (Contractor); Alfonso Ronca (PM) and Sekander Salihi (RE) representing Arlington County met virtually and presented each party's estimate for this item: Arlington County Estimate (ACE) = \$12,007 LS; Contractor's Proposal (CP) = \$17,766.00 LS.

The parties discussed specifics of this change to ensure that there was a mutual understanding of the scope of work involved. Both parties negotiated and acknowledged the following:

- (1) The ACE underestimated the labor effort and a higher productivity rate than the CP.
- (2) The CP quantities for VDOT 57 stone and asphalt restoration were excessive due to overestimating the length of pipe.
- (3) The ACE and CP estimated varying equipment usage/hours and materials and agreed that some equipment was or was not needed/other equipment hours should be adjusted.
- (4) The CP was short 1 service truck.
- (5) The CP did not consider concrete in their proposal but should have used 1 CY.

Based on these acknowledgements, the CP and ACE both parties agreed that the CP was a fair estimate, adjusted items per above and arrived at a unit price of \$17,558.00 LS.

Item No. 10 (PCO 18) – Lean Concrete Removal (New Item):

- Reason for Change Order: During Phase 2 sidewalk subbase demolition operations along N. Stuart St., an additional 4-6 in. layer of harder lean concrete was discovered wedged between the garage roof deck slab step and the existing curb and gutter. At a subsequent meeting with the owner (BMC), its Structural Engineer, Horace Willis, requested its removal down to the level of the existing waterproofing so new waterproofing can be reinstalled. In response to Ardent concerns with difficulty in removal of this concrete with lightweight demolition methods and equipment currently being utilized to prevent damage to the garage structure, Horace advised that the garage roof deck is designed to support heavy loads (fire truck) so Ardent could use heavier equipment including a 30lb hammer drill, bobcat and backhoe. Because this layer of concrete was unknown and not considered during previous CO negotiations for sidewalk demolition using lightweight demolition methods and equipment, it was agreed that Ardent should be compensated for its effort to demolish it, and Ardent was requested to submit a cost proposal for this work.
- Negotiation Recap: Held 10/11/21: Bijay Subedi (PM) and Vivek Thukral (Sr. PM) representing Ardent (Contractor); Alfonso Ronca (PM) and Sekander Salihi (RE) representing Arlington County met virtually and presented each party's estimate for this item: Arlington County Estimate (ACE) = \$17,278.00 LS; Contractor's Proposal (CP) = \$50,779.00.

The parties discussed specifics of this change to ensure that there was a mutual understanding of the scope of work involved. Both parties negotiated and acknowledged the following:

- (1) The 15 CP labor days were excessive in part due to an overestimated amount of spoils and estimated at a lower productivity rate than the ACE.
- (2) The CP was short 1 operator and 1 dump truck driver,
- (3) The ACE and CP estimated varying equipment usage/hours and materials and agreed that some equipment was or was not needed/other equipment hours should be adjusted.

Based on these acknowledgements, the CP and ACE agreed: to remove subcontractor trucking from the CP; to add 1 large dump truck/driver to the CP; to reduce the CP labor days from 15 to 10 and dumps from 9 to 3 in addition to time adjustments for associated equipment usage. As result, both parties arrived at a unit price of \$33,384.00 LS with a 10 CD extension of the contract duration.

**Item No. 11 (PCO 16) - Adjust Sanitary Manhole (Existing Item):**

- Reason for Change Order: Due to N. Stuart St. cross-slope modifications as a result of the NSSR, eleven (11) sanitary sewer manhole frames/covers need to be raised/adjusted to proposed grade and will be paid added and paid for under the existing contract. See also attachment A.

**Item No. 12-23 (PCO 16) – Credit to County for Unused Contract Pay Items (Deleted Items):**

- Reason for Change Order: As a result of various utility relocations performed by others in Phase 1 as well as modifications due to the NSSR, it follows that twelve (12) related existing pay items (Item 18, 21, 26, 27, 28, 36, 49, 53, 58, 60, 61, 128) are no longer needed and their value for which will be credited to the County. See attachment A for list of items.
- Negotiation Recap: Based on these acknowledgements a negotiation was not necessary and these pay items will be removed from contract.

<b>Summary of Negotiations</b>	Arlington County Estimate	Contractor's Proposal	Negotiated Price
Add 10 New Items; Increase 1 Existing Pay Item; Delete 12 Existing Items	\$46,481.00	\$132,930.00	\$87,119.50

The negotiations of 10/11/21 resulted in all parties agreeing to the same unit price for ten (10) new contract items; to increase 1 existing pay item and to credit the contract for twelve (12) existing contract items.

Based upon the findings, it is recommended that a change order be issued to Ardent for net amount = \$87,119.50. The following find the price to be fair and reasonable for the work involved.

  
 \_\_\_\_\_  
 Arash Hooshangi, Ardent President

10/15/2021  
 \_\_\_\_\_  
 Date

  
 \_\_\_\_\_  
 Sekander Salihi, EIT, STV Resident Engineer

10/15/2021  
 \_\_\_\_\_  
 Date

*Dara Soum*  
 \_\_\_\_\_  
 Dara Soum, PE, Arlington County Project Manager

10/18/21  
 \_\_\_\_\_  
 Date



**Section B. Itemized Final Negotiation Breakdown (PCO 16, PCO 17 & PCO 18)**

# ARDENT



## Final Negotiation Copy, 09/28/21

Ballston-MU Station Area Improvements Project  
Arlington County, VA

**PCO 16 -N. Stuart Curb Height Change (8" High C&G construction)**

**Description of Change;**

Based on N.Stuart St redesign, Curb hight has been rised to 8" so Ardent will be compensated for 2" differences.

Task Description	Quantity	Hours	Unit	Rate	Subtotals	Comments
<b>LABOR</b>						
Foreman	1.00	4.00	Hrs.	\$38.00	\$152.00	
Laborer (skilled)	1.00	4.00	Hrs.	\$22.00	\$88.00	
Laborer (unskilled)	3.00	4.00	Hrs.	\$21.00	\$252.00	
Operator	0.00	0.00	Hrs.	\$23.93	\$0.00	
Dump Truck Driver	0.00	0.00	Hrs.	\$20.34	\$0.00	
Other	0.00	0.00	Hrs.	\$50.00	\$0.00	
Subtotal Labor Base:					\$492.00	
Ind. Labor					15.15%	\$74.54 15.15% payroll burden
Subtotal Labor:					\$566.54	
O&P					15.00%	\$84.98 O&P is on Base + Indirect Labor
<b>TOTAL LABOR</b>					<b>\$651.52</b>	

EQUIPMENT	Quantity	Hours	Unit	Rate	Subtotals	Comments
Excavator	0.00	0.00	Hrs.	\$115.85	\$0.00	
Backhoe	1.00	3.00	Hrs.	\$34.87	\$104.61	
Skid Steer	1.00	4.00	Hrs.	\$29.63	\$118.52	
Dump Truck (Large)	0.00	0.00	Hrs.	\$97.40	\$0.00	
Dump Truck (Small)	0.00	0.00	Hrs.	\$46.77	\$0.00	
Generator	0.00		Hrs.		\$0.00	
Concrete Saw	0.00	8.00	Hrs.	\$23.69	\$0.00	
Small Tools	0.00		Hrs.		\$0.00	
Service Truck	1.00	4.00	Hrs.	\$35.00	\$140.00	no service truck used
Pickup Truck	1.00	4.00	Hrs.	\$28.26	\$113.04	
Subtotal Equipment:					\$476.17	
O&P					15.00%	\$71.43
<b>TOTAL EQUIPMENT:</b>					<b>\$547.60</b>	

MATERIAL	Quantity	Supplier	Unit	Unit \$	Subtotals	Comments
Concrete	0.75	see comment	LS	\$157.50	\$118.13	Supplier (Titan)
Other	0.00		LS	\$0.00	\$0.00	
Subtotal Material:					\$118.13	
Price +6% Tax					\$125.21	
O&P					15.00%	\$17.72
<b>TOTAL MATERIAL</b>					<b>\$142.93</b>	

SUBCONTRACTOR	Quant. (in Day)	Hrs	Unit \$	Subtotals	
Sub 1	0.00		\$0.00	\$0.00	
	0.00		\$0.00	\$0.00	
	0.00		\$0.00	\$0.00	
	0.00		\$0.00	\$0.00	
	0.00		\$0.00	\$0.00	
Subtotal Sub:				\$0.00	
O&P				10.00%	\$0.00
<b>TOTAL SUB</b>				<b>\$0.00</b>	

SUBTOTAL L+E+M+S:	\$1,342.05	
Bond	0.00%	\$0.00
<b>TOTAL L+E+M+S:</b>	<b>\$1,342.05</b>	
Roundup Each (Unit):	\$1,343.00	
Total Each (Unit):	1	
<b>CO TOTAL:</b>	<b>\$ 1,343.00</b>	

Created by: S. Salihi, E.I.T, Resident Engineer,  
Checked by: A. Ronca, PE, 9/28/21

1. 1 days time was considered for the estimated task.
2. Production rate and crew size was based on current crew size for similar work.
3. Trade rates reflect effective payroll rates, plus payroll burden.
4. 2020 Rental Rate Blue Book rates were referenced and considered in preparation of this estimate.

# ARDENT



## Final Negotiation Copy, 09/28/21

Ballston-MU Station Area Improvements Project  
Arlington County, VA

**PCO 16 - SD Structure No. 1 Field Modification**

**Description of Change;**

**Based on N.Stuart St redesign, Structure no.1 need to be modified based on field condition.**

<u>Task Description</u>	<u>Quantity</u>	<u>Hours</u>	<u>Unit</u>	<u>Rate</u>	<u>Subtotals</u>	<u>Comments</u>
<b>LABOR</b>						
Foreman	1.00	16.00	Hrs.	\$38.00	\$608.00	
Laborer (skilled)	1.00	16.00	Hrs.	\$22.00	\$352.00	
Laborer (unskilled)	2.00	16.00	Hrs.	\$21.00	\$672.00	
Laborer (unskilled)	1.00	16.00	Hrs.	\$20.97	\$335.52	
Operator	0.00	0.00	Hrs.	\$23.93	\$0.00	
Dump Truck Driver	0.00	0.00	Hrs.	\$20.34	\$0.00	
Other	0.00	0.00	Hrs.	\$50.00	\$0.00	
				Subtotal Labor Base:	\$1,967.52	
				Ind. Labor	15.15%	\$298.08 15.15% payroll burden
				Subtotal Labor:	\$2,265.60	
				O&P	15.00%	\$339.84 O&P is on Base + Indirect Labor
				<b>TOTAL LABOR</b>	<b>\$2,605.44</b>	
<b>EQUIPMENT</b>						
	<u>Quantity</u>	<u>Hours</u>	<u>Unit</u>	<u>Rate</u>	<u>Subtotals</u>	
Excavator	0.00	0.00	Hrs.	\$115.85	\$0.00	
Backhoe	1.00	8.00	Hrs.	\$34.87	\$278.96	
Skid Steer	1.00	12.00	Hrs.	\$29.63	\$355.56	
Dump Truck (Large)	0.00	0.00	Hrs.	\$97.40	\$0.00	
Dump Truck (Small)	1.00	8.00	Hrs.	\$46.77	\$374.16	
Generator	0.00		Hrs.		\$0.00	
Concrete Saw	1.00	8.00	Hrs.	\$23.69	\$189.52	
Small Tools	0.00		Hrs.		\$0.00	
Service Truck	1.00	16.00	Hrs.	\$35.00	\$560.00	no service truck used
Pickup Truck	1.00	16.00	Hrs.	\$28.26	\$452.16	
				Subtotal Equipment:	\$2,210.36	
				O&P	15.00%	\$331.55
				<b>TOTAL EQUIPMENT:</b>	<b>\$2,541.91</b>	
<b>MATERIAL</b>						
	<u>Quantity</u>	<u>Supplier</u>	<u>Unit</u>	<u>Unit \$</u>	<u>Subtotals</u>	
Rebars	1.00	see comment	LS	\$200.00	\$200.00	Supplier (Victory Steel., Inc)
F&C and Angles	1.00		LS	\$357.59	\$357.59	
ns, curing compound, form lease	1.00		LS	\$250.00	\$250.00	
Concrete	1.00	see comment	LS	\$248.00	\$248.00	
Other	0.00		LS	\$0.00	\$0.00	
				Subtotal Material:	\$1,055.59	
				Price +6% Tax	\$1,118.93	
				O&P	15.00%	\$158.34
				<b>TOTAL MATERIAL</b>	<b>\$1,277.26</b>	
<b>SUBCONTRACTOR</b>						
	<u>Quant. (in Day)</u>	<u>Hrs</u>	<u>Unit \$</u>	<u>Subtotals</u>		
Sub 1	0.00		\$0.00	\$0.00		
	0.00		\$0.00	\$0.00		
	0.00		\$0.00	\$0.00		
	0.00		\$0.00	\$0.00		
	0.00		\$0.00	\$0.00		
				Subtotal Sub:	\$0.00	
				O&P	10.00%	\$0.00
				<b>TOTAL SUB</b>	<b>\$0.00</b>	
				SUBTOTAL L+E+M+S:	\$6,424.62	
				Bond	0.00%	\$0.00
				<b>TOTAL L+E+M+S:</b>	<b>\$6,424.62</b>	
				Roundup Each (Unit):	\$6,425.00	
				Total Each (Unit):	1	
				<b>CO TOTAL:</b>	<b>\$ 6,425.00</b>	

Created by: S. Salihi, E.I.T, Resident Engineer,  
Checked by: A. Ronca, PE, 9/28/21

1. 1 days time was considered for the estimated task.
2. Production rate and crew size was based on current crew size for similar work.
3. Trade rates reflect effective payroll rates, plus payroll burden.
4. 2020 Rental Rate Blue Book rates were referenced and considered in preparation of this estimate.

# ARDENT



## Final Negotiation Copy, 09/28/21

Ballston-MU Station Area Improvements Project  
Arlington County, VA

**PCO 16- Spread Flag Sign Foundation**

**Description of Change;**

Based on N.Stuart St redesign, Color concrete will be used instead regular concrete for four (4) flag sign foundations.

<u>Task Description</u>	<u>Quantity</u>	<u>Hours</u>	<u>Unit</u>	<u>Rate</u>	<u>Subtotals</u>	<u>Comments</u>
<b>LABOR</b>						
Foreman	1.00	2.00	Hrs.	\$38.00	\$76.00	
Laborer (skilled)	1.00	2.00	Hrs.	\$22.00	\$44.00	
Laborer (unskilled)	1.00	2.00	Hrs.	\$21.00	\$42.00	
Laborer (unskilled)	3.00	2.00	Hrs.	\$20.97	\$125.82	
Operator	0.00	0.00	Hrs.	\$23.93	\$0.00	
Dump Truck Driver	0.00	0.00	Hrs.	\$20.34	\$0.00	
Other	0.00	0.00	Hrs.	\$50.00	\$0.00	
Subtotal Labor Base:					\$287.82	
Ind. Labor					15.15%	\$43.60 15.15% payroll burden
Subtotal Labor:					\$331.42	
O&P					15.00%	\$49.71 O&P is on Base + Indirect Labor
<b>TOTAL LABOR</b>					<b>\$381.14</b>	
<b>EQUIPMENT</b>						
Excavator	0.00	2.00	Hrs.	\$115.85	\$0.00	
Backhoe	1.00	2.00	Hrs.	\$34.87	\$69.74	
Skid Steer		2.00	Hrs.	\$29.63	\$0.00	
Dump Truck (Large)	0.00	0.00	Hrs.	\$97.40	\$0.00	
Dump Truck (Small)	0.00	0.00	Hrs.	\$46.77	\$0.00	
Generator	0.00		Hrs.		\$0.00	
Concrete Saw	0.00	0.00	Hrs.	\$23.69	\$0.00	
Small Tools	0.00		Hrs.		\$0.00	
Service Truck	1.00	2.00	Hrs.	\$35.00	\$70.00	no service truck used
Pickup Truck	1.00	2.00	Hrs.	\$28.26	\$56.52	
Subtotal Equipment:					\$196.26	
O&P					15.00%	\$29.44
<b>TOTAL EQUIPMENT:</b>					<b>\$225.70</b>	
<b>MATERIAL</b>						
Rebars	see comment		Ton	\$0.00	\$0.00	Supplier (Victory Steel., Inc)
Rebars Delivery	0.00		LS	\$0.00	\$0.00	
Anchor bolts	0.00	see comment	LS	\$0.00	\$0.00	Supplier (Traffic Safety and Technology)
g Compound, and Form Release	0.00		LS	\$0.00	\$0.00	
Ground-rod and miscellaneous	0.00			\$0.00	\$0.00	
Conduits and Cables	0.00			\$0.00	\$0.00	
Colored Concrete	2.20	see comment	CY	\$149.40	\$328.68	Price dif b/w color concrete and regular concrete
Other	0.00		LS	\$0.00	\$0.00	
Subtotal Material:					\$328.68	
Price +6% Tax					\$348.40	
O&P					15.00%	\$49.30
<b>TOTAL MATERIAL</b>					<b>\$397.70</b>	
<b>SUBCONTRACTOR</b>						
Sub 1	Quant. (in Day)	Hrs	Unit	Unit \$	Subtotals	
	0.00			\$0.00	\$0.00	
	0.00			\$0.00	\$0.00	
	0.00			\$0.00	\$0.00	
	0.00			\$0.00	\$0.00	
	0.00			\$0.00	\$0.00	
Subtotal Sub:					\$0.00	
O&P					10.00%	\$0.00
<b>TOTAL SUB</b>					<b>\$0.00</b>	
SUBTOTAL L+E+M:					\$1,004.54	
Bond					0.00%	\$0.00
<b>TOTAL L+E+M+S:</b>					<b>\$1,004.54</b>	
Roundup Each (Unit):					\$1,005.00	For one flag sign foundation
Total Each (Unit):					4	
<b>CO TOTAL:</b>					<b>\$ 4,020.00</b>	LS for four flag sign foundation

Created by: S. Salihi, E.I.T, Resident Engineer,  
Checked by: A. Ronca, PE, 9/28/21

1. 0 days time was considered for the estimated task.
2. Production rate and crew size was based on current crew size for similar work.
3. Trade rates reflect effective payroll rates, plus payroll burden.
4. 2020 Rental Rate Blue Book rates were referenced and considered in preparation of this estimate.

# ARDENT



## Final Negotiation Copy, 09/28/21

Ballston-MU Station Area Improvements Project  
Arlington County, VA

**PCO 16 -18 inch Junction Box for Bus Shelter**

**Description of Change;**

Based on N.Stuart St redesign, two (2) 18-inch JB are required for Bus Shelters along N. Stuart St

<u>Task Description</u>	<u>Quantity</u>	<u>Hours</u>	<u>Unit</u>	<u>Rate</u>	<u>Subtotals</u>	<u>Comments</u>
<b>LABOR</b>						
Foreman	1.00	4.00	Hrs.	\$38.00	\$152.00	
Laborer (skilled)	1.00	4.00	Hrs.	\$22.00	\$88.00	
Laborer (unskilled)	2.00	4.00	Hrs.	\$21.00	\$168.00	
Laborer (unskilled)	1.00	4.00	Hrs.	\$20.97	\$83.88	
Operator	0.00	0.00	Hrs.	\$23.93	\$0.00	
Dump Truck Driver	0.00	0.00	Hrs.	\$20.34	\$0.00	
Other	0.00	0.00	Hrs.	\$50.00	\$0.00	
Subtotal Labor Base:					\$491.88	
Ind. Labor					15.15%	\$74.52 15.15% payroll burden
Subtotal Labor:					\$566.40	
O&P					15.00%	\$84.96 O&P is on Base + Indirect Labor
<b>TOTAL LABOR</b>					<b>\$651.36</b>	

<u>EQUIPMENT</u>	<u>Quantity</u>	<u>Hours</u>	<u>Unit</u>	<u>Rate</u>	<u>Subtotals</u>	<u>Comments</u>
Excavator	0.00	0.00	Hrs.	\$115.85	\$0.00	
Backhoe	1.00	4.00	Hrs.	\$34.87	\$139.48	
Skid Steer	1.00	4.00	Hrs.	\$29.63	\$118.52	
Dump Truck (Large)	0.00	0.00	Hrs.	\$97.40	\$0.00	
Dump Truck (Small)	0.00	13.00	Hrs.	\$46.77	\$0.00	
Generator	0.00		Hrs.		\$0.00	
Concrete Saw	0.00	24.00	Hrs.	\$23.69	\$0.00	
Small Tools	0.00		Hrs.		\$0.00	
Service Truck	1.00	4.00	Hrs.	\$35.00	\$140.00	no service truck used
Pickup Truck	1.00	4.00	Hrs.	\$28.26	\$113.04	
Subtotal Equipment:					\$511.04	
O&P					15.00%	\$76.66
<b>TOTAL EQUIPMENT:</b>					<b>\$587.70</b>	

<u>MATERIAL</u>	<u>Quantity</u>	<u>Supplier</u>	<u>Unit</u>	<u>Unit \$</u>	<u>Subtotals</u>	<u>Comments</u>
Junction Box	1.00	see comment	EA	\$866.58	\$866.58	
Other	0.00		LS	\$0.00	\$0.00	
Subtotal Material:					\$866.58	
Price +6% Tax					\$918.57	
O&P					15.00%	\$129.99
<b>TOTAL MATERIAL</b>					<b>\$1,048.56</b>	

<u>SUBCONTRACTOR</u>	<u>Quant. (in Day)</u>	<u>Hrs</u>	<u>Unit \$</u>	<u>Subtotals</u>	<u>Comments</u>
Sub 1		0.00	\$0.00	\$0.00	
		0.00	\$0.00	\$0.00	
		0.00	\$0.00	\$0.00	
		0.00	\$0.00	\$0.00	
		0.00	\$0.00	\$0.00	
Subtotal Sub:				\$0.00	
O&P				10.00%	\$0.00
<b>TOTAL SUB</b>				<b>\$0.00</b>	

SUBTOTAL L+E+M:		\$2,287.62	
Bond		0.00%	\$0.00
<b>TOTAL L+E+M+S:</b>		<b>\$2,287.62</b>	
Roundup Each (Unit):		\$2,288.00	For 1 Bus Shelter JB installation
Total Each (Unit):		2	
<b>CO TOTAL:</b>		<b>\$ 4,576.00</b>	For 2 Bus Shelter JBs installation

Created by: S. Salihi, E.I.T, Resident Engineer,  
Checked by: A. Ronca, PE, 9/28/21

1. 0 days time was considered for the estimated task.
2. Production rate and crew size was based on current crew size for similar work.
3. Trade rates reflect effective payroll rates, plus payroll burden.
4. 2020 Rental Rate Blue Book rates were referenced and considered in preparation of this estimate.

# ARDENT



## Final Negotiation Copy, 09/28/21

Ballston-MU Station Area Improvements Project  
Arlington County, VA

**PCO 16 - 18 inch Junction Box for Streetlight**

**Description of Change;**

Based on N.Stuart St redesign, 18"-JB is required for Streetlight along N. Stuart St

<u>Task Description</u>	<u>Quantity</u>	<u>Hours</u>	<u>Unit</u>	<u>Rate</u>	<u>Subtotals</u>	<u>Comments</u>
<b>LABOR</b>						
Foreman	1.00	4.00	Hrs.	\$38.00	\$152.00	
Laborer (skilled)	1.00	4.00	Hrs.	\$22.00	\$88.00	
Laborer (unskilled)	2.00	4.00	Hrs.	\$21.00	\$168.00	
Laborer (unskilled)	1.00	4.00	Hrs.	\$20.97	\$83.88	
Operator	0.00	0.00	Hrs.	\$23.93	\$0.00	
Dump Truck Driver	0.00	0.00	Hrs.	\$20.34	\$0.00	
Other	0.00	0.00	Hrs.	\$50.00	\$0.00	
Subtotal Labor Base:					\$491.88	
Ind. Labor					15.15%	\$74.52 15.15% payroll burden
Subtotal Labor:					\$566.40	
O&P					15.00%	\$84.96 O&P is on Base + Indirect Labor
<b>TOTAL LABOR</b>					<b>\$651.36</b>	

<u>EQUIPMENT</u>	<u>Quantity</u>	<u>Hours</u>	<u>Unit</u>	<u>Rate</u>	<u>Subtotals</u>	
Excavator	0.00	0.00	Hrs.	\$115.85	\$0.00	
Backhoe	1.00	4.00	Hrs.	\$34.87	\$139.48	
Skid Steer	1.00	4.00	Hrs.	\$29.63	\$118.52	
Dump Truck (Large)	0.00	0.00	Hrs.	\$97.40	\$0.00	
Dump Truck (Small)	0.00	13.00	Hrs.	\$46.77	\$0.00	
Generator	0.00		Hrs.		\$0.00	
Concrete Saw	0.00	24.00	Hrs.	\$23.69	\$0.00	
Small Tools	0.00		Hrs.		\$0.00	
Service Truck	1.00	4.00	Hrs.	\$35.00	\$140.00	no service truck used
Pickup Truck	1.00	4.00	Hrs.	\$28.26	\$113.04	
Subtotal Equipment:					\$511.04	
O&P					15.00%	\$76.66
<b>TOTAL EQUIPMENT:</b>					<b>\$587.70</b>	

<u>MATERIAL</u>	<u>Quantity</u>	<u>Supplier</u>	<u>Unit</u>	<u>Unit \$</u>	<u>Subtotals</u>	
Junction Box	1.00	see comment	EA	\$866.58	\$866.58	
Other	0.00		LS	\$0.00	\$0.00	
Subtotal Material:					\$866.58	
Price +6% Tax					\$918.57	
O&P					15.00%	\$129.99
<b>TOTAL MATERIAL</b>					<b>\$1,048.56</b>	

<u>SUBCONTRACTOR</u>	<u>Quant. (in Day)</u>	<u>Hrs</u>	<u>Unit \$</u>	<u>Subtotals</u>	
Sub 1	0.00		\$0.00	\$0.00	
	0.00		\$0.00	\$0.00	
	0.00		\$0.00	\$0.00	
	0.00		\$0.00	\$0.00	
	0.00		\$0.00	\$0.00	
Subtotal Sub:				\$0.00	
O&P				10.00%	\$0.00
<b>TOTAL SUB</b>				<b>\$0.00</b>	

SUBTOTAL L+E+M:		\$2,287.62
Bond		0.00%
<b>TOTAL L+E+M+S:</b>		<b>\$2,287.62</b>
Roundup Each (Unit):		\$2,288.00
Total Each (Unit):		1
<b>CO TOTAL:</b>		<b>\$ 2,288.00</b>

Created by: S. Salihi, E.I.T, Resident Engineer,  
Checked by: A. Ronca, PE, 9/28/21

1. 0 days time was considered for the estimated task.
2. Production rate and crew size was based on current crew size for similar work.
3. Trade rates reflect effective payroll rates, plus payroll burden.
4. 2020 Rental Rate Blue Book rates were referenced and considered in preparation of this estimate.

# ARDENT



## Final Negotiation Copy, 09/28/21

Ballston-MU Station Area Improvements Project  
Arlington County, VA

**PCO 16- Spread Streetlight Foundations**

**Description of Change;**

Based on N.Stuart St redesign, Eight (8) SL foundations were modified from original design to spread foundations.

<u>Task Description</u>	<u>Quantity</u>	<u>Hours</u>	<u>Unit</u>	<u>Rate</u>	<u>Subtotals</u>	<u>Comments</u>
<b>LABOR</b>						
Foreman	1.00	12.00	Hrs.	\$38.00	\$456.00	
Laborer (skilled)	1.00	12.00	Hrs.	\$22.00	\$264.00	
Laborer (unskilled)	2.00	12.00	Hrs.	\$21.00	\$504.00	
Laborer (unskilled)	1.00	12.00	Hrs.	\$20.97	\$251.64	
Operator	0.00	0.00	Hrs.	\$23.93	\$0.00	
Dump Truck Driver	0.00	0.00	Hrs.	\$20.34	\$0.00	
Other	0.00	0.00	Hrs.	\$50.00	\$0.00	
				Subtotal Labor Base:	\$1,475.64	
				Ind. Labor	15.15%	\$223.56 15.15% payroll burden
				Subtotal Labor:	\$1,699.20	
				O&P	15.00%	\$254.88 O&P is on Base + Indirect Labor
				<b>TOTAL LABOR</b>	<b>\$1,954.08</b>	
<b>EQUIPMENT</b>						
	<u>Quantity</u>	<u>Hours</u>	<u>Unit</u>	<u>Rate</u>	<u>Subtotals</u>	
Excavator	0.00	0.00	Hrs.	\$115.85	\$0.00	
Backhoe	0.00	24.00	Hrs.	\$34.87	\$0.00	
Skid Steer	1.00	12.00	Hrs.	\$29.63	\$355.56	
Dump Truck (Large)	0.00	0.00	Hrs.	\$97.40	\$0.00	
Dump Truck (Small)	0.00	13.00	Hrs.	\$46.77	\$0.00	
Generator	0.00		Hrs.		\$0.00	
Concrete Saw	0.00	24.00	Hrs.	\$23.69	\$0.00	
Small Tools	0.00		Hrs.		\$0.00	
Service Truck	1.00	12.00	Hrs.	\$35.00	\$420.00	no service truck used
Pickup Truck	1.00	8.00	Hrs.	\$28.26	\$226.08	
				Subtotal Equipment:	\$1,001.64	
				O&P	15.00%	\$150.25
				<b>TOTAL EQUIPMENT:</b>	<b>\$1,151.89</b>	
<b>MATERIAL</b>						
	<u>Quantity</u>	<u>Supplier</u>	<u>Unit</u>	<u>Unit \$</u>	<u>Subtotals</u>	
Rebars	0.30	see comment	Ton	\$2,031.61	\$609.48	Supplier ()
Rebars Delivery	1.00		LS	\$100.00	\$100.00	
Anchor bolts	1.00	see comment	LS	\$210.00	\$210.00	Supplier ()
g Compound, and Form Release	1.00		LS	\$250.00	\$250.00	
Ground-rod and miscellaneous	1.00			\$100.00	\$100.00	
Conduits and Cables	1.00			\$50.00	\$50.00	
Colored Concrete	2.95	see comment	CY	\$338.96	\$999.93	
Other	0.00		LS	\$0.00	\$0.00	
				Subtotal Material:	\$2,319.42	
				Price +6% Tax	\$2,458.58	
				O&P	15.00%	\$347.91
				<b>TOTAL MATERIAL</b>	<b>\$2,806.49</b>	
<b>SUBCONTRACTOR</b>						
	<u>Quant. (in Day)</u>	<u>Hrs</u>	<u>Unit \$</u>	<u>Subtotals</u>		
Sub 1	0.00		\$0.00	\$0.00		
	0.00		\$0.00	\$0.00		
	0.00		\$0.00	\$0.00		
	0.00		\$0.00	\$0.00		
	0.00		\$0.00	\$0.00		
				Subtotal Sub:	\$0.00	
				O&P	10.00%	\$0.00
				<b>TOTAL SUB</b>	<b>\$0.00</b>	
<b>SUBTOTAL L+E+M+S:</b>					\$5,912.46	
				Bond	0.00%	\$0.00
<b>TOTAL L+E+M+S:</b>					\$5,912.46	
				Roundup Each (Unit):	\$5,913.00	For one modified foundations
				Total Each (Unit):	8	
<b>CO TOTAL:</b>					<b>\$ 47,304.00</b>	LS for eight modified foundations

Created by: S. Salihi, E.I.T, Resident Engineer,  
Checked by: A. Ronca, PE, 9/2821

1. 0 days time was considered for the estimated task.
2. Production rate and crew size was based on current crew size for similar work.
3. Trade rates reflect effective payroll rates, plus payroll burden.
4. 2020 Rental Rate Blue Book rates were referenced and considered in preparation of this estimate.

# ARDENT



## Final Negotiation Copy, 09/28/21

Ballston-MU Station Area Improvements Project  
Arlington County, VA

PCO 16- WMATA Pylone Foundation

**Description of Change;**

WMATA pylon footing was not included in original contract plan, during revision of N. Stuart St redesign, a WMATA pylone footing was design

<u>Task Description</u>	<u>Quantity</u>	<u>Hours</u>	<u>Unit</u>	<u>Rate</u>	<u>Subtotals</u>	<u>Comments</u>
<b>LABOR</b>						
Foreman	1.00	12.00	Hrs.	\$38.00	\$456.00	
Laborer (skilled)	1.00	12.00	Hrs.	\$22.00	\$264.00	
Laborer (unskilled)	2.00	12.00	Hrs.	\$21.00	\$504.00	
Laborer (unskilled)	1.00	12.00	Hrs.	\$20.97	\$251.64	
Operator	0.00	0.00	Hrs.	\$23.93	\$0.00	
Dump Truck Driver	0.00	0.00	Hrs.	\$20.34	\$0.00	
Other	0.00	0.00	Hrs.	\$50.00	\$0.00	
				Subtotal Labor Base:	\$1,475.64	
				Ind. Labor	15.15%	\$223.56 15.15% payroll burden
				Subtotal Labor:	\$1,699.20	
				O&P	15.00%	\$254.88 O&P is on Base + Indirect Labor
				<b>TOTAL LABOR</b>	<b>\$1,954.08</b>	
<b>EQUIPMENT</b>						
	<u>Quantity</u>	<u>Hours</u>	<u>Unit</u>	<u>Rate</u>	<u>Subtotals</u>	
Excavator	0.00	0.00	Hrs.	\$115.85	\$0.00	
Backhoe	0.00	24.00	Hrs.	\$34.87	\$0.00	
Skid Steer	1.00	8.00	Hrs.	\$29.63	\$237.04	
Dump Truck (Large)	0.00	0.00	Hrs.	\$97.40	\$0.00	
Dump Truck (Small)	0.00	13.00	Hrs.	\$46.77	\$0.00	
Generator	0.00		Hrs.		\$0.00	
Concrete Saw	0.00	24.00	Hrs.	\$23.69	\$0.00	
Small Tools	0.00		Hrs.		\$0.00	
Service Truck	1.00	12.00	Hrs.	\$35.00	\$420.00	no service truck used
Pickup Truck	1.00	8.00	Hrs.	\$28.26	\$226.08	
				Subtotal Equipment:	\$883.12	
				O&P	15.00%	\$132.47
				<b>TOTAL EQUIPMENT:</b>	<b>\$1,015.59</b>	
<b>MATERIAL</b>						
	<u>Quantity</u>	<u>Supplier</u>	<u>Unit</u>	<u>Unit \$</u>	<u>Subtotals</u>	
Rebars	0.19	see comment	Ton	\$2,031.61	\$379.91	Supplier (Victory Steel., Inc)
Rebars Delivery	1.00		LS	\$40.00	\$40.00	
Anchor bolts	1.00	see comment	LS	\$373.40	\$373.40	Supplier (Traffic Safety and Technology)
g Compound, and Form Release	1.00		LS	\$250.00	\$250.00	
Ground-rod and miscellaneous	1.00			\$100.00	\$100.00	
Conduits and Cables	1.00			\$50.00	\$50.00	
Colored Concrete	1.95	see comment	CY	\$256.68	\$500.53	
Other	0.00		LS	\$0.00	\$0.00	
				Subtotal Material:	\$1,693.84	
				Price +6% Tax	\$1,795.47	
				O&P	15.00%	\$254.08
				<b>TOTAL MATERIAL</b>	<b>\$2,049.54</b>	
<b>SUBCONTRACTOR</b>						
	<u>Quant. (in Day)</u>	<u>Hrs</u>	<u>Unit \$</u>	<u>Subtotals</u>		
Sub 1	0.00		\$0.00	\$0.00		
	0.00		\$0.00	\$0.00		
	0.00		\$0.00	\$0.00		
	0.00		\$0.00	\$0.00		
	0.00		\$0.00	\$0.00		
				Subtotal Sub:	\$0.00	
				O&P	10.00%	\$0.00
				<b>TOTAL SUB</b>	<b>\$0.00</b>	
				SUBTOTAL L+E+M:	\$5,019.21	
				Bond	0.00%	\$0.00
				<b>TOTAL L+E+M+S:</b>	<b>\$5,019.21</b>	
				Roundup Each (Unit):	\$5,020.00	For one WMATA Pylon Foundation
				Total Each (Unit):	1	
				<b>CO TOTAL:</b>	<b>\$ 5,020.00</b>	LS for one WMATA pylon foundation

Created by: S. Salihi, E.I.T, Resident Engineer,  
Checked by: A. Ronca, PE, 9/28/21

1. 1 days time was considered for the estimated task.
2. Production rate and crew size was based on current crew size for similar work.
3. Trade rates reflect effective payroll rates, plus payroll burden.
4. 2020 Rental Rate Blue Book rates were referenced and considered in preparation of this estimate.



**ARDENT****Final Negotiation Copy, 09/28/21**

Ballston-MU Station Area Improvements Project  
Arlington County, VA

**PCO 17-Installation of Grate Inlet, MH and RCP pipe**

**Description of Change;**

Per grade plan @ N.Stuart St redesign, tie-in location of new & old C&G has the lowest point; designer proposed grate inlet, MH and RCP Pipe installation

<u>Task Description</u>	<u>Quantity</u>	<u>Hours</u>	<u>Unit</u>	<u>Rate</u>	<u>Subtotals</u>	<u>Comments</u>	
<b>LABOR</b>							
Foreman	1.00	32.00	Hrs.	\$38.00	\$1,216.00		
Laborer (skilled)	1.00	32.00	Hrs.	\$22.00	\$704.00		
Laborer (unskilled)	2.00	32.00	Hrs.	\$21.00	\$1,344.00		
Laborer (unskilled)	1.00	32.00	Hrs.	\$20.97	\$671.04		
Operator	0.00	0.00	Hrs.	\$23.93	\$0.00		
Dump Truck Driver	0.00	0.00	Hrs.	\$20.34	\$0.00		
Other	0.00	0.00	Hrs.	\$50.00	\$0.00		
					Subtotal Labor Base:	\$3,935.04	
					Ind. Labor	15.15% \$596.16	15.15% payroll burden
					Subtotal Labor:	\$4,531.20	
					O&P	15.00% \$679.68	O&P is on Base + Indirect Labor
					<b>TOTAL LABOR</b>	<b>\$5,210.88</b>	
<b>EQUIPMENT</b>							
Excavator	0.00	0.00	Hrs.	\$115.85	\$0.00		
Backhoe	1.00	32.00	Hrs.	\$34.87	\$1,115.84		
Skid Steer	1.00	0.00	Hrs.	\$29.63	\$0.00		
Dump Truck (Large)	0.00	0.00	Hrs.	\$97.40	\$0.00		
Dump Truck (Small)	0.00	0.00	Hrs.	\$46.77	\$0.00		
Generator	0.00		Hrs.		\$0.00		
Concrete Saw	1.00	8.00	Hrs.	\$23.69	\$189.52		
Small Tools	0.00		Hrs.		\$0.00		
Service Truck	1.00	32.00	Hrs.	\$35.00	\$1,120.00	no service truck used	
Pickup Truck	1.00	32.00	Hrs.	\$28.26	\$904.32		
					Subtotal Equipment:	\$3,329.68	
					O&P	15.00% \$499.45	
					<b>TOTAL EQUIPMENT:</b>	<b>\$3,829.13</b>	
<b>MATERIAL</b>							
Drainage Structures and Pipes	1.00	see comment	LS	\$4,192.60	\$4,192.60	Supplier (CP&P)	
Bricks and Mortar	1.00		LS	\$100.00	\$100.00		
Dump Fee	5.00	see comment	EA	\$210.00	\$1,050.00	Supplier (DC Materials)	
57 Stone	8.00	see comment	TON	\$25.50	\$204.00	Supplier (CSS)	
Asphalt	2.00	see comment	TON	\$55.00	\$110.00	Supplier (National Asphalt)	
Concrete	1.00		CY	\$155.00	\$155.00		
					Subtotal Material:	\$5,811.60	
					Price +6% Tax	\$6,160.30	
					O&P	15.00% \$871.74	
					<b>TOTAL MATERIAL</b>	<b>\$7,032.04</b>	
<b>SUBCONTRACTOR</b>							
Trucking	Quant. (in Day)	Hrs	Unit	Unit \$	Subtotals		
	2.00	9		\$75.00	\$1,350.00		
	0.00			\$0.00	\$0.00		
	0.00			\$0.00	\$0.00		
	0.00			\$0.00	\$0.00		
	0.00			\$0.00	\$0.00		
					Subtotal Sub:	\$1,350.00	
					O&P	10.00% \$135.00	
					<b>TOTAL SUB</b>	<b>\$1,485.00</b>	
					SUBTOTAL L+E+M:	\$16,072.05	
					Bond	0.00% \$0.00	
					<b>TOTAL L+E+M+S:</b>	<b>\$17,557.05</b>	
					Roundup Each (Unit):	\$17,558.00	
					Total Each (Unit):	1	
					<b>CO TOTAL:</b>	<b>\$ 17,558.00</b>	

Created by: S. Salihi, E.I.T, Resident Engineer,  
Checked by: A. Ronca, PE, 9/28/21

1. 1 days time was considered for the estimated task.
2. Production rate and crew size was based on current crew size for similar work.
3. Trade rates reflect effective payroll rates, plus payroll burden.
4. 2020 Rental Rate Blue Book rates were referenced and considered in preparation of this estimate.

# ARDENT



## Final Negotiation Copy, 10/11/21

Ballston-MU Station Area Improvements Project  
Arlington County, VA

**PCO 18-Lean Concrete Removal**

**Description of Change;**

Removal of lean concrete atop of garage slab

<u>Task Description</u>	<u>Quantity</u>	<u>Hours</u>	<u>Unit</u>	<u>Rate</u>	<u>Subtotals</u>	<u>Comments</u>	
<b>LABOR</b>							
Foreman	1.00	80.00	Hrs.	\$38.00	\$3,040.00		
Laborer (skilled)	1.00	80.00	Hrs.	\$22.00	\$1,760.00		
Laborer (unskilled)	3.00	80.00	Hrs.	\$21.00	\$5,040.00		
Operator	1.00	40.00	Hrs.	\$23.93	\$957.20		
Dump Truck Driver	1.00	27.00	Hrs.	\$20.34	\$549.18		
Other	0.00	0.00	Hrs.	\$50.00	\$0.00		
					Subtotal Labor Base:	\$11,346.38	
					Ind. Labor	15.15% \$1,718.98	15.15% payroll burden
					Subtotal Labor:	\$13,065.36	
					O&P	15.00% \$1,959.80	O&P is on Base + Indirect Labor
					<b>TOTAL LABOR</b>	<b>\$15,025.16</b>	
<b>EQUIPMENT</b>							
Excavator	0.00	0.00	Hrs.	\$115.85	\$0.00		
Backhoe	1.00	20.00	Hrs.	\$34.87	\$697.40		
Backhoe	1.00	30.00	Hrs.	\$9.39	\$281.70	Standby	
Skid Steer	1.00	80.00	Hrs.	\$29.63	\$2,370.40		
Dump Truck (Large)	1.00	27.00	Hrs.	\$97.40	\$2,629.80		
Dump Truck (Small)	0.00	0.00	Hrs.	\$46.77	\$0.00		
Hammer Drill & Air Compressor	1.00	1.00	EA	\$1,928.63	\$1,928.63	30 lb Air Hammer Drill - Rental	
Blades/Chisel	1.00	3.00	Hrs.	\$53.00	\$159.00	Rental	
Sweeper	1.00	80.00	Hrs.	\$27.16	\$2,172.80		
Service Truck	1.00	80.00	Hrs.	\$35.00	\$2,800.00		
Pickup Truck	1.00	80.00	Hrs.	\$28.26	\$2,260.80		
					Subtotal Equipment:	\$15,300.53	
					O&P	15.00% \$2,295.08	
					<b>TOTAL EQUIPMENT:</b>	<b>\$17,595.61</b>	
<b>MATERIAL</b>							
Dump Fee	3.00	see comment	EA	\$210.00	\$630.00	Supplier (DC Materials)	
Other				\$0.00	\$0.00		
Other				\$0.00	\$0.00		
					Subtotal Material:	\$630.00	
					Price +6% Tax	\$667.80	
					O&P	15.00% \$94.50	
					<b>TOTAL MATERIAL</b>	<b>\$762.30</b>	
<b>SUBCONTRACTOR</b>							
	Quant. (in Day)	Hrs	Unit	Unit \$	Subtotals		
		0.00		\$0.00	\$0.00		
		0.00		\$0.00	\$0.00		
		0.00		\$0.00	\$0.00		
		0.00		\$0.00	\$0.00		
		0.00		\$0.00	\$0.00		
					Subtotal Sub:	\$0.00	
					O&P	10.00% \$0.00	
					<b>TOTAL SUB</b>	<b>\$0.00</b>	
					SUBTOTAL L+E+M:	\$33,383.07	
					Bond	0.00% \$0.00	
					<b>TOTAL L+E+M+S:</b>	<b>\$33,383.07</b>	
					Roundup Each (Unit):	\$33,384.00	
					Total Each (Unit):	1	
					<b>CO TOTAL:</b>	<b>\$ 33,384.00</b>	

Created by: S. Salihi, E.I.T, Resident Engineer, 10/11/21  
Checked by: A. Ronca, PE, 10/12/21

1. 5 days time was considered for the estimated task.
2. Production rate and crew size was based on current crew size for similar work.
3. Trade rates reflect effective payroll rates, plus payroll burden.
4. 2020 Rental Rate Blue Book rates were referenced and considered in preparation of this estimate.

**Section C. Pencil Copy (Working) Markups for Each Party's Estimate (PCO 16, PCO 17 & PCO 18)**

*Advent People*  
*CCPS 9/28/21*  
*SS*  
*ATP*

**Cost Breakdown For C&G**

**Labor & Equipment Costs**

**Labor**

Classification	Days	Hours (ST)	Hours (OT)	Rate (hr)	OT Rate (hr)	Total
Foreman	1	4.5		\$ 43.70		\$ 262.20
Laborer	1	4.5		\$ 25.30		\$ 151.80
Laborer	1	4.5		\$ 24.12		\$ 144.69
Laborer	1	4.5		\$ 24.12		\$ 144.69
Laborer	1	4.5		\$ 24.15		\$ 144.90
Total						\$ 848.29

**Equipment**

Equipment	Days	Hours (Active)	Hours (Stby)	Rate (Active)	Rate (Stby)	Total
Pick up Truck, Silverado 1500	1	4.5	0	\$ 28.26		\$ 169.56
Skid Steer, John Deere 317	1	4.5	0	\$ 29.63		\$ 177.78
<i>Back hoe</i>	<i>1</i>	<i>3</i>				
Total						\$ 486.82

**Material**

Material	Supplier	Quantity	Unit	Unit Price	Unit Price + Tax	Total
Concrete	Titan	0.74	CY	\$ 157.50	\$ 166.95	\$ 123.54
Total						\$ 123.54

**Subcontractor**

Work	Sub Contractor	Day	Hours	Rate	Lump Sum	Total
						\$ -
						\$ -
					Allowance (10%)	\$ -
Total						\$ -

<b>Base Cost (Labor + Equipment + Material)</b>	<b>\$ 1,450.00</b>
<b>Base Cost Overhead and Profit (15%)</b>	<b>\$ 218.85</b>
<b>Subcontractor Cost Inc Overhead (10%)</b>	<b>\$ -</b>
<b>Total</b>	<b>\$ 1,678.00</b>

AR/LS  
9/28/21

# ARDENT



## STV/County Independent Cost Estimate, 09/28/21

Ballston-MU Station Area Improvements Project  
Arlington County, VA  
PCO 16 -8" high C&G construction

**Description of Change;**

Based on N.Stuart St redesign, Curb hight has been risen to 8" so Ardent will be compensated for 2" differences.

Task Description	Quantity	Hours	Unit	Rate	Subtotals	Comments
<b>LABOR</b>						
Foreman	1.00	4.00	Hrs.	\$38.00	\$152.00	
Laborer (skilled)	1.00	4.00	Hrs.	\$22.00	\$88.00	
Laborer (unskilled)	3.00	4.00	Hrs.	\$21.00	\$252.00	
Operator	0.00	0.00	Hrs.	\$23.93	\$0.00	
Dump Truck Driver	0.00	0.00	Hrs.	\$20.34	\$0.00	
Other	0.00	0.00	Hrs.	\$50.00	\$0.00	
Subtotal Labor Base:					\$492.00	
Ind. Labor					15.15%	\$74.54 15.15% payroll burden
Subtotal Labor:					\$566.54	
O&P					15.00%	\$84.98 O&P is on Base + Indirect Labor
<b>TOTAL LABOR</b>					<b>\$651.52</b>	

EQUIPMENT	Quantity	Hours	Unit	Rate	Subtotals	Comments
Excavator	0.00	0.00	Hrs.	\$115.85	\$0.00	
Backhoe	1.00	3.00	Hrs.	\$34.87	\$104.61	
Skid Steer	1.00	4.00	Hrs.	\$29.63	\$118.52	
Dump Truck (Large)	0.00	0.00	Hrs.	\$97.40	\$0.00	
Dump Truck (Small)	0.00	0.00	Hrs.	\$46.77	\$0.00	
Generator	0.00		Hrs.		\$0.00	
Concrete Saw	0.00	8.00	Hrs.	\$23.69	\$0.00	
Small Tools	0.00		Hrs.		\$0.00	
Add Service Truck	1.00	0.00	Hrs.	\$0.00	\$0.00	no service truck used
Pickup Truck	1.00	4.00	Hrs.	\$28.26	\$113.04	
Subtotal Equipment:					\$336.17	
O&P					15.00%	\$50.43
<b>TOTAL EQUIPMENT:</b>					<b>\$386.60</b>	

MATERIAL	Quantity	Supplier	Unit	Unit \$	Subtotals	Comments
Concrete	0.75	see comment	LS	\$157.50	\$118.13	Supplier (Titan)
Other	0.00		LS	\$0.00	\$0.00	
Subtotal Material:					\$118.13	
Price +6% Tax					\$125.21	
O&P					15.00%	\$17.72
<b>TOTAL MATERIAL</b>					<b>\$142.93</b>	

SUBCONTRACTOR	Quant. (in Day)	Hrs	Unit \$	Subtotals	
Sub 1		0.00	\$0.00	\$0.00	
		0.00	\$0.00	\$0.00	
		0.00	\$0.00	\$0.00	
		0.00	\$0.00	\$0.00	
		0.00	\$0.00	\$0.00	
Subtotal Sub:				\$0.00	
O&P				10.00%	\$0.00
<b>TOTAL SUB</b>				<b>\$0.00</b>	

SUBTOTAL L+E+M+S:	\$1,181.05	
Bond	0.00%	\$0.00
<b>TOTAL L+E+M+S:</b>	<b>\$1,181.05</b>	
Roundup Each (Unit):	\$1,182.00	
Total Each (Unit):	1	
<b>CO TOTAL:</b>	<b>\$1,182.00</b>	

Created by: S. Salihi, E.I.T, Resident Engineer,  
Checked by: A. Ronca, PE, 9/28/21

1. 1 days time was considered for the estimated task.
2. Production rate and crew size was based on current crew size for similar work.
3. Trade rates reflect effective payroll rates, plus payroll burden.
4. 2020 Rental Rate Blue Book rates were referenced and considered in preparation of this estimate.

**Cost Breakdown For Field Modification of Str -1**

**Labor & Equipment Costs**

**Labor**

Classification	Days	Hours (ST)	Hours (OT)	Rate (hr)	OT Rate (hr)	Total
Foreman	2 ✓	8 ✓		\$ 43.70		\$ 699.20
Laborer	2 ✓	8 ✓		\$ 25.30		\$ 404.80
Laborer	2 ✓	8 ✓		\$ 24.12		\$ 385.92
Laborer	2 ✓	8 ✓		\$ 24.12		\$ 385.92
Laborer	2 ✓	8 ✓		\$ 24.15		\$ 386.40
<b>Total</b>						<b>\$ 2,262.24</b>

**Equipment**

Equipment	Days	Hours (Active)	Hours (Stby)	Rate (Active)	Rate (Stby)	Total
Backhoe	2 ✓	8 ✓	0	\$ 35.76		\$ 572.16
Pick up Truck, Silverado 1500	2 ✓	8 ✓	0	\$ 28.26		\$ 452.16
Skid Steer, John Deere 317	2 ✓	8 ✓	0	\$ 29.63		\$ 474.08
Concrete Saw	2 ✓	8 ✓	0	\$ 23.69		\$ 379.04
Dump Truck (Small)	1 ✓	8 ✓	0	\$ 46.77		\$ 374.16
<i>Service Truck</i>	<i>2</i>	<i>8</i>				
<b>Total</b>						<b>\$ 2,251.60</b>

**Material**

Material	Supplier	Quantity	Unit	Unit Price	Unit Price + Tax	Total
Rebars		1	LS	\$ 200.00	\$ 212.00	\$ 212.00
F&C and Angles		1	LS	\$ 357.59	\$ 379.05	\$ 379.05
Forms, curing compounds, form release		1	LS	\$ 250.00	\$ 265.00	\$ 265.00
Concrete		1	LS	\$ 248.00	\$ 262.88	\$ 462.88
<b>Total</b>						<b>\$ 1,318.93</b>

**Subcontractor**

Work	Sub Contractor	Day	Hours	Rate	Lump Sum	Total
						\$ -
						\$ -
					Allowance (10%)	\$ -
<b>Total</b>						<b>\$ -</b>

<b>Base Cost (Labor + Equipment + Material)</b>	<b>\$ 5,833.00</b>
<b>Base Cost Overhead and Profit (15%)</b>	<b>\$ 874.95</b>
<b>Subcontractor Cost Inc Overhead (10%)</b>	<b>\$ -</b>
<b>Total</b>	<b>\$ 6,708.00</b>

Volume of Concrete (4\*2.5\*.67+4.72\*2.5\*.67) 16.8  
 Price Per CY for Regular concrete (134+15+1.5+7) \$ 157.50  
 Price Including short load fee \$ 248.00

*Ardent Petite Copy  
 9/28/21  
 AR/SS*



### Cost Breakdown For Flag Foundation

#### Labor & Equipment Costs

#### Labor

Classification	Days	Hours (ST)	Hours (OT)	Rate (hr)	OT Rate (hr)	Total
Foreman	<del>2</del> 0	<del>8</del> 2		\$ 43.70		\$ <del>699.20</del>
Laborer	<del>2</del> 0	<del>8</del> 2		\$ 25.30		\$ <del>404.80</del>
Laborer	<del>2</del> 0	<del>8</del> 2		\$ 24.12		\$ <del>385.92</del>
Laborer	<del>2</del> 0	<del>8</del> 2		\$ 24.12		\$ <del>385.92</del>
Laborer	<del>2</del> 0	<del>8</del> 2		\$ 24.15		\$ <del>386.40</del>
Total						\$ <del>2,262.24</del>

#### Equipment

Equipment	Days	Hours (Active)	Hours (Stby)	Rate (Active)	Rate (Stby)	Total
Pick up Truck, Silverado 1500	<del>2</del> 0	<del>8</del> 2	0	\$ 28.26		\$ <del>452.16</del>
Skid Steer, John Deere 317	<del>2</del> 0	<del>8</del> 2	0	\$ 29.63		\$ <del>474.08</del>
<i>Back haul</i>	0	2 hrs				\$ <del>926.24</del>
Total						\$ <del>926.24</del>

#### Material

Material	Supplier	Quantity	Unit	Unit Price	Unit Price + Tax	Total
<del>Rebars</del>		<del>1</del>	<del>LS</del>	<del>\$ 492.31</del>	<del>\$ 521.85</del>	<del>\$ 521.85</del>
<del>Rebar Delivery Fee</del>		<del>1</del>	<del>LS</del>	<del>\$ 50.00</del>	<del>\$ 50.00</del>	<del>\$ 50.00</del>
<del>Anchor Bolt with nuts and washers</del>		<del>1</del>	<del>LS</del>	<del>\$ 373.40</del>	<del>\$ 395.80</del>	<del>\$ 395.80</del>
<del>Forms, curing compounds, form release</del>		<del>1</del>	<del>LS</del>	<del>\$ 265.00</del>	<del>\$ 265.00</del>	<del>\$ 265.00</del>
<del>Groundrod and miscellaneous</del>		<del>1</del>	<del>EA</del>	<del>\$ 106.00</del>	<del>\$ 106.00</del>	<del>\$ 106.00</del>
<del>Conduits and cables</del>		<del>1</del>	<del>EA</del>	<del>\$ 53.00</del>	<del>\$ 53.00</del>	<del>\$ 53.00</del>
Colored Concrete		2.2	LS CY	\$ 149 733.54	\$ 777.55	\$ <del>977.55</del>
Total						\$ <del>2,369.20</del>

#### Subcontractor

Work	Sub Contractor	Day	Hours	Rate	Lump Sum	Total
						\$ -
						\$ -
					Allowance (10%)	\$ -
Total						\$ -

Base Cost (Labor + Equipment + Material)	\$ <del>5,558.00</del>
Base Cost Overhead and Profit (15%)	\$ <del>833.70</del>
Subcontractor Cost inc Overhead (10%)	\$ -
<b>Total</b>	\$ <del>6,392.00</del>

Volume of Modified Foundation (CF) (6.5\*6.5\*1+2.5\*2\*2)\*1 60.09  
 Price Per CY for colored concrete (140+65+15+1.5\*7) \$ 228.50  
 Price Including Truck wash fee/short load \$ 733.54

Ardant Pencile COPY  
 AR/SS  
 9/28/21



# ARDENT



## STV/County Independent Cost Estimate, 09/28/21

Ballston-MU Station Area Improvements Project

Arlington County, VA

PCO 16- Spread Flag Sign Foundation

**Description of Change:**

Based on N Stuart St redesign, color concrete will be used instead regular concrete for four (4) flag sign foundations.

Task Description	Quantity	Hours	Unit	Rate	Subtotals	Comments
------------------	----------	-------	------	------	-----------	----------

LABOR						
Foreman	<del>1</del> 0.00	<del>2</del> 8.00	Hrs.	\$38.00	<del>\$0.00</del>	
Laborer (skilled)	<del>1</del> 0.00	<del>2</del> 8.00	Hrs.	\$22.00	<del>\$0.00</del>	
Laborer (unskilled)	<del>1</del> 0.00	<del>2</del> 8.00	Hrs.	\$21.00	<del>\$0.00</del>	
Laborer (unskilled)	<del>1</del> 0.00	<del>2</del> 8.00	Hrs.	\$20.97	<del>\$0.00</del>	
Operator	<del>3</del> 0.00	<del>2</del> 0.00	Hrs.	\$23.93	<del>\$0.00</del>	
Dump Truck Driver	0.00	0.00	Hrs.	\$20.34	<del>\$0.00</del>	
Other	0.00	0.00	Hrs.	\$50.00	<del>\$0.00</del>	

Subtotal Labor Base:	\$0.00
Ind. Labor	15.15% \$0.00 15,15% payroll burden
Subtotal Labor:	\$0.00
O&P	15.00% <del>\$0.00</del> O&P is on Base + Indirect Labor
<b>TOTAL LABOR</b>	<b><del>\$0.00</del></b>

EQUIPMENT						
Excavator	0.00	0.00	Hrs.	\$115.85	\$0.00	
<del>Backhoe</del>	<del>1</del> 0.00	<del>2</del> 24.00	Hrs.	\$34.87	\$0.00	
Skid Steer	0.00	8.00	Hrs.	\$29.63	\$0.00	
Dump Truck (Large)	0.00	0.00	Hrs.	\$97.40	\$0.00	
Dump Truck (Small)	0.00	13.00	Hrs.	\$46.77	\$0.00	
Generator	0.00		Hrs.		\$0.00	
Concrete Saw	0.00	24.00	Hrs.	\$23.69	\$0.00	
Small Tools	0.00		Hrs.		\$0.00	
<del>Service Truck</del>	<del>1</del> 0.00	<del>2</del> 0.00	Hrs.	\$35.00	\$0.00	no service truck used
<del>Pickup Truck</del>	<del>1</del>	<del>2</del> 0.00	Hrs.	\$28.26	\$0.00	

Subtotal Equipment:	<del>\$0.00</del>
O&P	15.00% <del>\$0.00</del>
<b>TOTAL EQUIPMENT:</b>	<b><del>\$0.00</del></b>

MATERIAL	Quantity	Supplier	Unit	Unit \$	Subtotals	Comments
Rebars	see comment		Ton	\$0.00	\$0.00	Supplier (Victory Steel., Inc)
Rebars Delivery	0.00		LS	\$0.00	\$0.00	
Anchor bolts	0.00	see comment	LS	\$0.00	\$0.00	Supplier (Traffic Safety and Technology)
Compound, and Form Release	0.00		LS	\$0.00	\$0.00	
Ground-rod and miscellaneous	0.00			\$0.00	\$0.00	
Conduits and Cables	0.00			\$0.00	\$0.00	
Colored Concrete	<del>2.20</del> see comment		CY	<del>\$149.40</del>	\$328.68	Price dif b/w color concrete and regular concrete
Other	0.00		LS	\$0.00	\$0.00	

Subtotal Material:	\$328.68
Price +6% Tax	\$348.40
O&P	15.00% <del>\$49.30</del>
<b>TOTAL MATERIAL</b>	<b>\$397.70</b>

SUBCONTRACTOR	Quant. (in Day)	Hrs	Unit \$	Subtotals
Sub 1	0.00	0.00	\$0.00	\$0.00
	0.00	0.00	\$0.00	\$0.00
	0.00	0.00	\$0.00	\$0.00
	0.00	0.00	\$0.00	\$0.00
	0.00	0.00	\$0.00	\$0.00

Subtotal Sub:	\$0.00
O&P	10.00% \$0.00
<b>TOTAL SUB</b>	<b>\$0.00</b>

SUBTOTAL L+E+M:	\$397.70
Bond	0.00% \$0.00
<b>TOTAL L+E+M+S:</b>	<b>\$397.70</b>

Roundup Each (Unit):	\$398.00	For one flag sign foundation
Total Each (Unit):	4	
<b>CO TOTAL:</b>	<b>\$-1,592.00</b>	LS for four flag sign foundation

Created by: S. Salihi, E.I.T, Resident Engineer,  
Checked by: A. Ronca, PE, 9/28/21

- 0 days time was considered for the estimated task.
- Production rate and crew size was based on current crew size for similar work.
- Trade rates reflect effective payroll rates, plus payroll burden.
- 2020 Rental Rate Blue Book rates were referenced and considered in preparation of this estimate.

AR/SS  
9/28/21

# ARDENT



## STV/County Independent Cost Estimate, 09/28/21

Ballston-MU Station Area Improvements Project  
Arlington County, VA

PCO 16 - Installation of 18 inch JB for Bus Shelter

**Description of Change;**

Based on N. Stuart St redesign, One (1) JB is required for Bus Shelter along N. Stuart St

Task Description	Quantity	Hours	Unit	Rate	Subtotals	Comments
<b>LABOR</b>						
Foreman	1.00	3.00	Hrs.	\$38.00	\$114.00	
Laborer (skilled)	1.00	3.00	Hrs.	\$22.00	\$66.00	
Laborer (unskilled)	2.00	3.00	Hrs.	\$21.00	\$126.00	
Laborer (unskilled)	1.00	3.00	Hrs.	\$20.97	\$62.91	
Operator	0.00	0.00	Hrs.	\$23.93	\$0.00	
Dump Truck Driver	0.00	0.00	Hrs.	\$20.34	\$0.00	
Other	0.00	0.00	Hrs.	\$50.00	\$0.00	

Subtotal Labor Base:	\$368.91
Ind. Labor 15.15%	\$55.89
Subtotal Labor:	\$424.80
O&P 15.00%	\$63.72
<b>TOTAL LABOR</b>	<b>\$488.52</b>

O&P is on Base + Indirect Labor

EQUIPMENT	Quantity	Hours	Unit	Rate	Subtotals	Comments
Excavator	0.00	0.00	Hrs.	\$115.85	\$0.00	
Backhoe	1.00	2.00	Hrs.	\$34.87	\$69.74	
Skid Steer	1.00	3.00	Hrs.	\$29.63	\$88.89	
Dump Truck (Large)	0.00	0.00	Hrs.	\$97.40	\$0.00	
Dump Truck (Small)	0.00	13.00	Hrs.	\$46.77	\$0.00	
Generator	0.00		Hrs.		\$0.00	
Concrete Saw	0.00	24.00	Hrs.	\$23.69	\$0.00	
Small Tools	0.00		Hrs.		\$0.00	
Add Service Truck	1.00	0.00	Hrs.	\$35.00	\$0.00	no service truck used
Pickup Truck	1.00	3.00	Hrs.	\$28.26	\$84.78	

Subtotal Equipment:	\$243.41
O&P 15.00%	\$36.51
<b>TOTAL EQUIPMENT:</b>	<b>\$279.92</b>

MATERIAL	Quantity	Supplier	Unit	Unit \$	Subtotals
Junction Box	1.00	see comment	EA	\$866.58	\$866.58
Other	0.00		LS	\$0.00	\$0.00
Subtotal Material:					\$866.58
Price +6% Tax					\$918.57
O&P 15.00%					\$129.99
<b>TOTAL MATERIAL</b>					<b>\$1,048.56</b>

SUBCONTRACTOR	Quant. (in Day)	Hrs	Unit \$	Subtotals
Sub 1	0.00	0.00	\$0.00	\$0.00
	0.00	0.00	\$0.00	\$0.00
	0.00	0.00	\$0.00	\$0.00
	0.00	0.00	\$0.00	\$0.00
	0.00	0.00	\$0.00	\$0.00
Subtotal Sub:				\$0.00
O&P 10.00%				\$0.00
<b>TOTAL SUB</b>				<b>\$0.00</b>

SUBTOTAL L+E+M:	\$1,817.00
Bond 0.00%	\$0.00
<b>TOTAL L+E+M+S:</b>	<b>\$1,817.00</b>

Roundup Each (Unit):	\$4,818.00	For 1 Bus Shelter JB installation
Total Each (Unit):	2	
<b>CO TOTAL:</b>	<b>\$ 3,636.00</b>	For 2 Bus Shelter JBs installation

Created by: S. Salihi, E.I.T., Resident Engineer,  
Checked by: A. Ronca, PE, 9/28/21

1. 0 days time was considered for the estimated task.
2. Production rate and crew size was based on current crew size for similar work.
3. Trade rates reflect effective payroll rates, plus payroll burden.
4. 2020 Rental Rate Blue Book rates were referenced and considered in preparation of this estimate.

**Cost Breakdown For Installation of Bus Shelter Junction Box**

**Labor & Equipment Costs**

**Labor**

Classification	Days	Hours (ST)	Hours (OT)	Rate (hr)	OT Rate (hr)	Total
Foreman	1	4.5		\$ 43.70		\$ <del>218.50</del>
Laborer	1	4.5		\$ 25.30		\$ <del>126.50</del>
Laborer	1	4.5		\$ 24.12		\$ <del>120.60</del>
Laborer	1	4.5		\$ 24.12		\$ <del>120.60</del>
Laborer	1	4.5		\$ 24.15		\$ <del>120.75</del>
Total						\$ <del>706.95</del>

**Equipment**

Equipment	Days	Hours (Active)	Hours (Stby)	Rate (Active)	Rate (Stby)	Total
Backhoe	1	3.9	0	\$ 35.76		\$ <del>137.28</del>
Pick up Truck, Silverado 1500	1	4.5	0	\$ 28.26		\$ <del>141.30</del>
Skid Steer, John Deere 317	1	5.4	0	\$ 29.63		\$ <del>148.15</del>
Service Truck	1	4				\$ <del>396.72</del>
Total						\$ <del>396.72</del>

**Material**

Material	Supplier	Quantity	Unit	Unit Price	Unit Price + Tax	Total
Junction Box		1	LS	\$ 866.58	\$ 918.57	\$ <del>918.57</del>
Total						\$ <del>918.57</del>

**Subcontractor**

Work	Sub Contractor	Day	Hours	Rate	Lump Sum	Total
						\$ -
						\$ -
					Allowance (10%)	\$ -
Total						\$ -

Base Cost (Labor + Equipment + Material)	\$ <del>2,022.00</del>
Base Cost Overhead and Profit (15%)	\$ <del>303.30</del>
Subcontractor Cost Inc Overhead (10%)	\$ -
<b>Total</b>	\$ <del>2,326.00</del>

ARdent Pécille  
COPY

AR/SS  
9/28/21

**Cost Breakdown For Installation of Streetlight Junction Box**

**Labor & Equipment Costs**

**Labor**

Classification	Days	Hours (ST)	Hours (OT)	Rate (hr)	OT Rate (hr)	Total
Foreman	1	4.5		\$ 43.70		\$ <del>218.50</del>
Laborer	1	4.5		\$ 25.30		\$ <del>126.50</del>
Laborer	1	4.5		\$ 24.12		\$ <del>120.60</del>
Laborer	1	4.5		\$ 24.12		\$ <del>120.60</del>
Laborer	1	4.5		\$ 24.15		\$ <del>120.75</del>
Total						\$ <del>706.95</del>

**Equipment**

Equipment	Days	Hours (Active)	Hours (Stby)	Rate (Active)	Rate (Stby)	Total
Backhoe	1	2.9	0	\$ 35.76		\$ <del>107.28</del>
Pick up Truck, Silverado 1500	1	5.4	0	\$ 28.26		\$ <del>141.30</del>
Skid Steer, John Deere 317	1	5.4	0	\$ 29.63		\$ <del>148.15</del>
<i>Service Truck</i>	<i>1</i>	<i>4</i>				\$ <del>396.73</del>
Total						\$ <del>396.73</del>

**Material**

Material	Supplier	Quantity	Unit	Unit Price	Unit Price + Tax	Total
Junction Box		1	LS	\$ 866.58	\$ 918.57	\$ 918.57
Total						\$ 918.57

**Subcontractor**

Work	Sub Contractor	Day	Hours	Rate	Lump Sum	Total
						\$ -
						\$ -
					Allowance (10%)	\$ -
Total						\$ -

Base Cost (Labor + Equipment + Material)	\$ <del>2,022.00</del>
Base Cost Overhead and Profit (15%)	\$ <del>303.30</del>
Subcontractor Cost Inc Overhead (10%)	\$ -
<b>Total</b>	\$ <del>2,326.00</del>

*Ardent Pencile  
COPG  
AR/SS  
9/28/21*

AR/SS  
9/28/21

# ARDENT



## STV/County Independent Cost Estimate, 09/28/21

Ballston-MU Station Area Improvements Project  
Arlington County, VA

PCO 16 - Installation of 18 inch Junction Box for Streetlight

**Description of Change;**

Based on N.Stuart St redesign, 18"-JB is required for Streetlight along N. Stuart St

Task Description	Quantity	Hours	Unit	Rate	Subtotals	Comments
<b>LABOR</b>						
Foreman	1.00	3.00	Hrs.	\$38.00	\$114.00	
Laborer (skilled)	1.00	3.00	Hrs.	\$22.00	\$66.00	
Laborer (unskilled)	2.00	3.00	Hrs.	\$21.00	\$126.00	
Laborer (unskilled)	1.00	3.00	Hrs.	\$20.97	\$62.91	
Operator	0.00	0.00	Hrs.	\$23.93	\$0.00	
Dump Truck Driver	0.00	0.00	Hrs.	\$20.34	\$0.00	
Other	0.00	0.00	Hrs.	\$50.00	\$0.00	

Subtotal Labor Base:	\$368.91	
Ind. Labor	15.15%	\$55.89 15.15% payroll burden
Subtotal Labor:		\$424.80
O&P	15.00%	\$63.72 O&P is on Base + Indirect Labor
<b>TOTAL LABOR</b>		<b>\$488.52</b>

EQUIPMENT	Quantity	Hours	Unit	Rate	Subtotals	Comments
Excavator	0.00	0.00	Hrs.	\$115.85	\$0.00	
Backhoe	1.00	2.00	Hrs.	\$34.87	\$69.74	
Skid Steer	1.00	3.00	Hrs.	\$29.63	\$88.89	
Dump Truck (Large)	0.00	0.00	Hrs.	\$97.40	\$0.00	
Dump Truck (Small)	0.00	13.00	Hrs.	\$46.77	\$0.00	
Generator	0.00		Hrs.		\$0.00	
Concrete Saw	0.00	24.00	Hrs.	\$23.69	\$0.00	
Small Tools	0.00		Hrs.		\$0.00	
Service Truck	1	0.00	Hrs.	\$35.00	\$0.00	no service truck used
Pickup Truck	1.00	3.00	Hrs.	\$28.26	\$84.78	

Subtotal Equipment:	\$243.41
O&P	15.00%
	\$36.51
<b>15</b>	<b>\$279.92</b>

MATERIAL	Quantity	Supplier	Unit	Unit \$	Subtotals
Junction Box	1.00	see comment	EA	\$866.58	\$866.58
Other	0.00		LS	\$0.00	\$0.00
Subtotal Material:					\$866.58
Price +6% Tax					\$918.57
O&P	15.00%				\$129.99
<b>TOTAL MATERIAL</b>					<b>\$1,048.56</b>

SUBCONTRACTOR	Quant. (in Day)	Hrs	Unit \$	Subtotals
Sub 1	0.00		\$0.00	\$0.00
	0.00		\$0.00	\$0.00
	0.00		\$0.00	\$0.00
	0.00		\$0.00	\$0.00
	0.00		\$0.00	\$0.00
Subtotal Sub:				\$0.00
O&P	10.00%			\$0.00
<b>TOTAL SUB</b>				<b>\$0.00</b>

SUBTOTAL L+E+M:	\$1,817.00
Bond	0.00%
	\$0.00
<b>TOTAL L+E+M+S:</b>	<b>\$1,817.00</b>
Roundup Each (Unit):	\$1,818.00
Total Each (Unit):	1
<b>CO TOTAL:</b>	<b>\$ 1,818.00</b>

Created by: S. Salihi, E.I.T, Resident Engineer,  
Checked by: A. Ronca, PE, 9/28/21

1. 0 days time was considered for the estimated task.
2. Production rate and crew size was based on current crew size for similar work.
3. Trade rates reflect effective payroll rates, plus payroll burden.
4. 2020 Rental Rate Blue Book rates were referenced and considered in preparation of this estimate.

### Cost Breakdown For Streetlight Foundations

#### Labor & Equipment Costs

#### Labor

Classification	Days	Hours (ST)	Hours (OT)	Rate (hr)	OT Rate (hr)	Total
Foreman	2 1.5	8		\$ 43.70		\$ 699.20
Laborer	2 1.5	8		\$ 25.30		\$ 404.80
Laborer	2 1.5	8		\$ 24.12		\$ 385.92
Laborer	2 1.5	8		\$ 24.12		\$ 385.92
Laborer	2 1.5	8		\$ 24.15		\$ 386.40
Total						\$ 2,262.24

#### Equipment

Equipment	Days	Hours (Active)	Hours (Stby)	Rate (Active)	Rate (Stby)	Total
Pick up Truck, Silverado 1500	2 1.5	8	0	\$ 28.26		\$ 452.16
Skid Steer, John Deere 317	2 1.5	8	0	\$ 29.63		\$ 474.08
Add Service Truck	1.5	8				
Total						\$ 926.24

#### Material

Material	Supplier	Quantity	Unit	Unit Price	Unit Price + Tax	Total
Rebars		1	LS	\$ 492.31	\$ 521.85	\$ 521.85
Rebar Delivery Fee		1	LS	\$ 50.00	\$ 50.00	\$ 50.00
Anchor Bolt		1	LS	\$ 210.00	\$ 222.60	\$ 222.60
Forms, curing compounds, form release		1	LS	\$ 250.00	\$ 265.00	\$ 265.00
Groundrod and miscellaneous		1	EA	\$ 100.00	\$ 106.00	\$ 106.00
Conduits and cables		1	EA	\$ 50.00	\$ 53.00	\$ 53.00
Colored Concrete		1	LS	\$ 999.95	\$ 1,059.95	\$ 1,059.95
Total						\$ 2,478.39

#### Subcontractor

Work	Sub Contractor	Day	Hours	Rate	Lump Sum	Total
						\$ -
						\$ -
					Allowance (10%)	\$ -
Total						\$ -

Base Cost (Labor + Equipment + Material)	\$ 5,667.00
Base Cost Overhead and Profit (15%)	\$ 850.05
Subcontractor Cost Inc Overhead (10%)	\$ -
<b>Total</b>	<b>\$ 6,518.00</b>

Volume of Modified Foundation (CF) (8\*8\*1+2.5\*2.5\*2.5)\*1 91.57  
 Price Per CY for colored concrete (140+65+15+1.5\*7) \$ 228.50  
 Price Including Truck wash fee/short load \$ 999.95

As dead Pencil Copy

AR/SS

9/28/21



**STV/County Independent Cost Estimate, 09/28/21**

Ballston-MU Station Area Improvements Project  
Arlington County, VA

**PCO 16- Modified Streetlight Spread Foundations**

**Description of Change:**

Based on N.Stuart St redesign, Eight (8) LP foundations were modified from original design to spread footer.

Task Description	Quantity	Hours	Unit	Rate	Subtotals	Comments
<b>LABOR</b>						
Foreman	1.00	12 8.00	Hrs.	\$38.00	\$304.00	
Laborer (skilled)	1.00	12 8.00	Hrs.	\$22.00	\$176.00	
Laborer (unskilled)	2.00	12 8.00	Hrs.	\$21.00	\$336.00	
Laborer (unskilled)	1.00	12 8.00	Hrs.	\$20.97	\$167.76	
Operator	0.00	12 0.00	Hrs.	\$23.93	\$0.00	
Dump Truck Driver	0.00	0.00	Hrs.	\$20.34	\$0.00	
Other	0.00	0.00	Hrs.	\$50.00	\$0.00	
Subtotal Labor Base:					\$983.76	
Ind. Labor 15.15%					<del>\$149.04</del>	15.15% payroll burden
Subtotal Labor:					<del>\$1,402.80</del>	
O&P 15.00%					<del>\$169.92</del>	O&P is on Base + Indirect Labor
<b>TOTAL LABOR</b>					<b>\$1,302.72</b>	

EQUIPMENT	Quantity	Hours	Unit	Rate	Subtotals	Comments
Excavator	0.00	0.00	Hrs.	\$115.85	\$0.00	
Backhoe	0.00	12 4.00	Hrs.	\$34.87	\$0.00	
Skid Steer	1.00	12 8.00	Hrs.	\$29.63	\$237.04	
Dump Truck (Large)	0.00	0.00	Hrs.	\$97.40	\$0.00	
Dump Truck (Small)	0.00	13.00	Hrs.	\$46.77	\$0.00	
Generator	0.00		Hrs.		\$0.00	
Concrete Saw	0.00	24.00	Hrs.	\$23.69	\$0.00	
Small Tools	0.00		Hrs.		\$0.00	
Service Truck	1.00	12 0.00	Hrs.	\$35.00	\$0.00	no service truck used
Pickup Truck	1.00	8.00	Hrs.	\$28.26	\$226.08	
Subtotal Equipment:					\$463.12	
O&P 15.00%					<del>\$69.47</del>	
<b>TOTAL EQUIPMENT:</b>					<b>\$532.59</b>	

MATERIAL	Quantity	Supplier	Unit	Unit \$	Subtotals	Comments
Rebars	0.13	see comment	Ton	\$2,031.61	<del>\$467.59</del>	Supplier ()
Rebars Delivery	1.00		LS	\$100.00	\$100.00	
Anchor bolts	1.00	see comment	LS	\$210.00	\$210.00	Supplier ()
Compound, and Form Release	1.00		LS	\$250.00	\$250.00	
Ground-rod and miscellaneous	1.00			\$100.00	\$100.00	
Conduits and Cables	1.00			\$50.00	\$50.00	
Colored Concrete	2.95	see comment	CY	\$338.96	\$999.93	
Other	0.00		LS	\$0.00	\$0.00	
Subtotal Material:					<del>\$2,197.52</del>	
Price +6% Tax					<del>\$2,329.37</del>	
O&P 15.00%					<del>\$329.63</del>	
<b>TOTAL MATERIAL</b>					<b>\$2,659.00</b>	

SUBCONTRACTOR	Quant. (in Day)	Hrs	Unit \$	Subtotals
Sub 1	0.00	0.00	\$0.00	\$0.00
	0.00	0.00	\$0.00	\$0.00
	0.00	0.00	\$0.00	\$0.00
	0.00	0.00	\$0.00	\$0.00
	0.00	0.00	\$0.00	\$0.00
Subtotal Sub:				\$0.00
O&P 10.00%				\$0.00
<b>TOTAL SUB</b>				<b>\$0.00</b>

SUBTOTAL L+E+M+S:	<del>\$4,494.30</del>
Bond 0.00%	\$0.00
<b>TOTAL L+E+M+S:</b>	<b>\$4,494.30</b>
Roundup Each (Unit):	\$4,495.00 For one modified foundations
Total Each (Unit):	8
<b>CO TOTAL:</b>	<b>\$35,960.00</b> LS for eight modified foundations

Created by: S. Salihi, E.I.T, Resident Engineer,  
Checked by: A. Ronca, PE, 9/28/21

1. 0 days time was considered for the estimated task.
2. Production rate and crew size was based on current crew size for similar work.
3. Trade rates reflect effective payroll rates, plus payroll burden.
4. 2020 Rental Rate Blue Book rates were referenced and considered in preparation of this estimate.

**Cost Breakdown For WMATA Pylon Foundation**

**Labor & Equipment Costs**

**Labor**

Classification	Days	Hours (ST)	Hours (OT)	Rate (hr)	OT Rate (hr)	Total
Foreman	2 1.5	8		\$ 43.70		\$ <del>699.20</del>
Laborer	2 1.5	8		\$ 25.30		\$ <del>404.80</del>
Laborer	2 1.5	8		\$ 24.12		\$ <del>385.02</del>
Laborer	2 1.5	8		\$ 24.12		\$ <del>385.02</del>
Laborer	2 1.5	8		\$ 24.15		\$ <del>386.40</del>
Total						\$ <del>2,262.24</del>

**Equipment**

Equipment	Days	Hours (Active)	Hours (Stby)	Rate (Active)	Rate (Stby)	Total
Pick up Truck, Silverado 1500	2 1	8	0	\$ 28.26		\$ <del>452.16</del>
Skid Steer, John Deere 317	2 1	8	0	\$ 29.63		\$ <del>474.08</del>
<i>Service Truck</i>	1.5	8				\$ <del>926.24</del>
Total						\$ <del>926.24</del>

**Material**

Material	Supplier	Quantity	Unit	Unit Price	Unit Price + Tax	Total
Rebars		1	LS	\$ 492.31	\$ <del>521.85</del>	\$ <del>521.85</del>
Rebar Delivery Fee		1	LS	\$ 50.00	\$ <del>50.00</del>	\$ <del>50.00</del>
Anchor Bolt with nuts and washers		1	LS	\$ 373.40	\$ <del>395.80</del>	\$ <del>395.80</del>
Forms, curing compounds, form release		1	LS	\$ 250.00	\$ <del>265.00</del>	\$ <del>265.00</del>
Groundrod and miscellaneous		1	EA	\$ 100.00	\$ <del>106.00</del>	\$ <del>106.00</del>
Conduits and cables		1	EA	\$ 50.00	\$ <del>53.00</del>	\$ <del>53.00</del>
Concrete		1	LS	\$ 500.53	\$ <del>530.56</del>	\$ <del>730.56</del>
Total						\$ <del>2,122.21</del>

**Subcontractor**

Work	Sub Contractor	Day	Hours	Rate	Lump Sum	Total
						\$ -
						\$ -
					Allowance (10%)	\$ -
					Total	\$ -

Volume of Modified Foundation (CF) (6.5\*6.5\*1+2.5\*2\*2)\*1 60.09  
 Price Per CY for Regular concrete (134+15+1.5+7) \$ 157.50  
 Price Including short load fee \$ 500.53

<b>Base Cost (Labor + Equipment + Material)</b>	\$ 5,311.00
<b>Base Cost Overhead and Profit (15%)</b>	\$ 796.65
<b>Subcontractor Cost Inc Overhead (10%)</b>	\$ -
<b>Total</b>	\$ <del>6,108.00</del>

*Ardent Pencile c/p  
 AR/S  
 9/28/21*



AR/SS  
9/28/21

# ARDENT



## STV/County Independent Cost Estimate, 09/28/21

Ballston-MU Station Area Improvements Project  
Arlington County, VA

PCO 16- WMATA Pylone Foundation

**Description of Change:**

WMATA pylon footing was not included in original contract plan, during revision of N. Stuart St redesign, a WMATA pylon footing was design

Task Description	Quantity	Hours	Unit	Rate	Subtotals	Comments
<b>LABOR</b>						
Foreman	1.00	12.80	Hrs.	\$38.00	\$304.00	
Laborer (skilled)	1.00	12.80	Hrs.	\$22.00	\$176.00	
Laborer (unskilled)	2.00	25.60	Hrs.	\$21.00	\$336.00	
Laborer (unskilled)	1.00	12.80	Hrs.	\$20.97	\$167.76	
Operator	0.00	0.00	Hrs.	\$23.93	\$0.00	
Dump Truck Driver	0.00	0.00	Hrs.	\$20.34	\$0.00	
Other	0.00	0.00	Hrs.	\$50.00	\$0.00	
Subtotal Labor Base:					\$983.76	
Ind. Labor 15.15%					\$149.04	15.15% payroll burden
Subtotal Labor:					\$1,132.80	
O&P 15.00%					\$169.92	O&P is on Base + Indirect Labor
<b>TOTAL LABOR</b>					<b>\$1,302.72</b>	

EQUIPMENT	Quantity	Hours	Unit	Rate	Subtotals	Comments
Excavator	0.00	0.00	Hrs.	\$115.85	\$0.00	
Backhoe	0.00	24.00	Hrs.	\$34.87	\$0.00	
Skid Steer	1.00	8.00	Hrs.	\$29.63	\$237.04	
Dump Truck (Large)	0.00	0.00	Hrs.	\$97.40	\$0.00	
Dump Truck (Small)	0.00	13.00	Hrs.	\$46.77	\$0.00	
Generator	0.00		Hrs.		\$0.00	
Concrete Saw	0.00	24.00	Hrs.	\$23.69	\$0.00	
Small Tools	0.00		Hrs.		\$0.00	
Add Service Truck	1.00	12.00	Hrs.	\$35.00	\$0.00	no service truck used
Pickup Truck	1.00	8.00	Hrs.	\$28.26	\$226.08	
Subtotal Equipment:					\$463.12	
O&P 15.00%					\$69.47	
<b>TOTAL EQUIPMENT:</b>					<b>\$532.59</b>	

MATERIAL	Quantity	Supplier	Unit	Unit \$	Subtotals	Comments
Rebars	0.19	see comment	Ton	\$2,031.61	\$379.91	Supplier (Victory Steel., Inc)
Rebars Delivery	1.00		LS	\$40.00	\$40.00	
Anchor bolts	1.00	see comment	LS	\$373.40	\$373.40	Supplier (Traffic Safety and Technology)
Compound, and Form Release	1.00		LS	\$250.00	\$250.00	
Ground-rod and miscellaneous	1.00			\$100.00	\$100.00	
Conduits and Cables	1.00			\$50.00	\$50.00	
Colored Concrete	1.95	see comment	CY	\$256.68	\$500.53	
Other	0.00		LS	\$0.00	\$0.00	
Subtotal Material:					\$1,693.84	
Price +6% Tax					\$1,795.47	
O&P 15.00%					\$254.08	
<b>TOTAL MATERIAL</b>					<b>\$2,049.54</b>	

SUBCONTRACTOR	Quant. (in Day)	Hrs	Unit \$	Subtotals
Sub 1		0.00	\$0.00	\$0.00
		0.00	\$0.00	\$0.00
		0.00	\$0.00	\$0.00
		0.00	\$0.00	\$0.00
		0.00	\$0.00	\$0.00
Subtotal Sub:				\$0.00
O&P 10.00%				\$0.00
<b>TOTAL SUB</b>				<b>\$0.00</b>

SUBTOTAL L+E+M:	\$2,884.85
Bond	\$0.00
<b>TOTAL L+E+M+S:</b>	<b>\$3,884.85</b>

Roundup Each (Unit):	\$3,885.00	For one WMATA Pylon Foundation
Total Each (Unit):	\$3,885.00	
<b>CO TOTAL:</b>	<b>\$ 3,885.00</b>	LS for one WMATA pylon foundation

Created by: S. Salihi, E.I.T, Resident Engineer,  
Checked by: A. Ronca, PE, 9/28/21

1. 1 days time was considered for the estimated task.
2. Production rate and crew size was based on current crew size for similar work.
3. Trade rates reflect effective payroll rates, plus payroll burden.
4. 2020 Rental Rate Blue Book rates were referenced and considered in preparation of this estimate.

Arden Pencile copy 9/28/21

## Cost Breakdown For Grate Inlet, MH and RCP Installation

### Labor & Equipment Costs

#### Labor

Classification	Days	Hours (ST)	Hours (OT)	Rate (hr)	OT Rate (hr)	Total
Foreman	4	8		\$ 43.70		\$ 1,398.40
Laborer	4	8		\$ 25.30		\$ 809.60
Laborer	4	8		\$ 24.12		\$ 771.84
Laborer	4	8		\$ 24.12		\$ 771.84
Laborer	4	8		\$ 24.15		\$ 772.80
Total						\$ 4,524.48

#### Equipment

Equipment	Days	Hours (Active)	Hours (Stby)	Rate (Active)	Rate (Stby)	Total
Backhoe	4	8	0	\$ 35.76		\$ 1,144.32
Pick up Truck, Silverado 1500	4	8	0	\$ 28.26		\$ 904.32
Skid Steer, John Deere 317	4	8	0	\$ 29.63		\$ 948.16
Concrete Saw	1	8	0	\$ 23.69		\$ 189.52
Add Service Truck	4	8	0	\$ 35.00		\$ 3,186.32
Total						\$ 3,186.32

#### Material

Material	Supplier	Quantity	Unit	Unit Price	Unit Price + Tax	Total
Drainage Structures and Pipes	CP&P	1	LS	\$ 4,192.60	\$ 4,444.16	\$ 4,444.16
Bricks and Mortar		1	LS	\$ 100.00	\$ 100.00	\$ 100.00
Dump Fee	DC Materials	5	EA	\$ 210.00	\$ 222.60	\$ 1,113.00
57 Stone	CSS	17.68	TON	\$ 25.50	\$ 27.03	\$ 477.89
25mm Asphalt	National Asphalt	5.32	TON	\$ 55.00	\$ 58.30	\$ 310.74
Concrete		1	CY			
Total						\$ 6,445.79

#### Subcontractor

Work	Sub Contractor	Day	Hours	Rate	Lump Sum	Total
Trucking		2	9	\$ 75.00		\$ 1,350.00
Allowance (10%)						\$ 135.00
Total						\$ 1,485.00

Base Cost (Labor + Equipment + Material)	\$ 14,157.00
Base Cost Overhead and Profit (15%)	\$ 2,123.55
Subcontractor Cost Inc Overhead (10%)	\$ 1,485.00
<b>Total</b>	<b>\$ 17,766.00</b>

AR/BS  
9/28/21

# ARDENT



## STV/County Independent Cost Estimate, 09/28/21

Ballston-MU Station Area Improvements Project  
Arlington County, VA

PCO 17-Installation of Grate Inlet, MH and RCP pipe

**Description of Change:**

Per grade plan @ N.Stuart St redesign, tie-in location of new & old C&G has the lowest point; designer proposed grate inlet installation

Task Description	Quantity	Hours	Unit	Rate	Subtotals	Comments
<b>LABOR</b>						
Foreman	1.00	32.00	Hrs.	\$38.00	\$608.00	
Laborer (skilled)	1.00	16.00	Hrs.	\$22.00	\$352.00	
Laborer (unskilled)	2.00	16.00	Hrs.	\$21.00	\$672.00	
Laborer (unskilled)	1.00	16.00	Hrs.	\$20.97	\$335.52	
Operator	0.00	0.00	Hrs.	\$23.93	\$0.00	
Dump Truck Driver	0.00	0.00	Hrs.	\$20.34	\$0.00	
Other	0.00	0.00	Hrs.	\$50.00	\$0.00	
Subtotal Labor Base:					\$1,967.52	
Ind. Labor					15.15%	\$298.08 15.15% payroll burden
Subtotal Labor:					\$2,265.60	
O&P					15.00%	\$339.84 O&P is on Base + Indirect Labor
<b>TOTAL LABOR</b>					<b>\$2,605.44</b>	

EQUIPMENT	Quantity	Hours	Unit	Rate	Subtotals	Comments
Excavator	0.00	0.00	Hrs.	\$115.85	\$0.00	
Backhoe	1.00	32.00	Hrs.	\$34.87	\$557.92	
Skid Steer	1.00	8.00	Hrs.	\$29.63	\$237.04	
Dump Truck (Large)	0.00	0.00	Hrs.	\$97.40	\$0.00	
Dump Truck (Small)	0.00	13.00	Hrs.	\$46.77	\$0.00	
Generator	0.00		Hrs.		\$0.00	
Concrete Saw	1.00	8.00	Hrs.	\$23.69	\$94.76	
Small Tools	0.00		Hrs.		\$0.00	
Service Truck	1.00	32.00	Hrs.	\$35.00	\$0.00	no service truck used
Pickup Truck	1.00	32.00	Hrs.	\$28.26	\$452.16	
Subtotal Equipment:					\$1,341.88	
O&P					15.00%	\$201.28
<b>TOTAL EQUIPMENT:</b>					<b>\$1,543.16</b>	

MATERIAL	Quantity	Supplier	Unit	Unit \$	Subtotals	Comments
Drainage Structures and Pipes	1.00	see comment	LS	\$4,192.60	\$4,192.60	Supplier (CP&P)
Bricks and Mortar	1.00		LS	\$100.00	\$100.00	
Dump Fee	2.00	see comment	EA	\$210.00	\$420.00	Supplier (DC Materials)
57 Stone	18.00	see comment	TON	\$25.50	\$204.00	Supplier (CSS)
Asphalt	3.50	see comment	TON	\$100.00	\$350.00	Supplier (National Asphalt)
Other	0.00		LS	\$0.00	\$0.00	
Subtotal Material:					\$5,266.60	
Price +6% Tax					\$5,582.60	
O&P					15.00%	\$789.99
<b>TOTAL MATERIAL</b>					<b>\$6,372.59</b>	

SUBCONTRACTOR	Quant. (in Day)	Hrs	Unit \$	Subtotals	Comments
Trucking	2.00	9	\$75.00	\$1,350.00	
	0.00		\$0.00	\$0.00	
	0.00		\$0.00	\$0.00	
	0.00		\$0.00	\$0.00	
	0.00		\$0.00	\$0.00	
Subtotal Sub:				\$1,350.00	
O&P				10.00%	\$135.00
<b>TOTAL SUB</b>				<b>\$1,485.00</b>	

<b>SUBTOTAL L+E+M:</b>		<b>\$10,521.19</b>
Bond	0.00%	\$0.00
<b>TOTAL L+E+M+S:</b>		<b>\$12,006.19</b>
Roundup Each (Unit):		\$12,007.00
Total Each (Unit):	1	
<b>CO TOTAL:</b>		<b>\$12,007.00</b>

Created by: S. Salihi, E.I.T, Resident Engineer,  
Checked by: A. Ronca, PE, 9/28/21

- 1 days time was considered for the estimated task.
- Production rate and crew size was based on current crew size for similar work.
- Trade rates reflect effective payroll rates, plus payroll burden.
- 2020 Rental Rate Blue Book rates were referenced and considered in preparation of this estimate.

ARDENT PENCIL COPY

**Cost Breakdown For Removal of Lean Concrete Fill**

**Labor & Equipment Costs**

**Labor**

Classification	Days	Hours (ST)	Hours (OT)	Rate (hr)	OT Rate (hr)	Total
Foreman	<del>15</del> 10	8		\$ 43.76		\$ 5,250.84
Laborer	<del>15</del> 10	8		\$ 27.56		\$ 3,306.65
Laborer	<del>15</del> 10	8		\$ 25.33		\$ 3,039.96
Laborer	<del>15</del> 10	8		\$ 24.18		\$ 2,901.78
Laborer	<del>15</del> 10	8		\$ 24.18		\$ 2,901.78
Laborer	<del>15</del> 10	8		\$ 24.18		\$ 2,901.78
Total						\$ 20,302.79

**Equipment**

Equipment	Days	Hours (Active)	Hours (Stby)	Rate (Active)	Rate (Stby)	Total
Backhoe	15 10	2	0	\$ 35.76		\$ 1,072.80
Pick up Truck, Silverado 1500	15 10	8	0	\$ 28.26		\$ 3,391.20
Skid Steer, John Deere 317	15 10	8	0	\$ 29.63		\$ 3,555.60
Service Truck	15 10	8	0	\$ 31.26		\$ 3,751.20
Sweeper	15 10	8	0	\$ 27.16		\$ 3,259.20
Dump Truck large Back here Stand by		27 hrs 2 chr		97.40 9.39		\$ 15,030.00

**Material**

Material	Supplier	Quantity	Unit	Unit Price	Unit Price + Tax	Total
Dump Fee	DC Materials	3	EA	\$ 210.00	\$ 222.60	\$ 2,003.40
Hammer Drill + Air Compressor	United Rentals	1	LS	\$ 1,819.46	\$ 1,928.63	\$ 1,928.63
Blades/Chisel	United Rentals	3	EA	\$ 50.00	\$ 53.00	\$ 371.00
Total						\$ 4,303.03

**Subcontractor**

Work	Sub Contractor	Day	Hours	Rate	Lump Sum	Total
Trucking		7	9	\$ 75.00		\$ 4,725.00
Allowance (10%)						\$ 472.50
Total						\$ 5,197.50

Base Cost (Labor + Equipment + Material)	\$ 39,636.00
Base Cost Overhead and Profit (15%)	\$ 5,945.40
Subcontractor Cost Inc Overhead (10%)	\$ 5,197.50
<b>Total</b>	<b>\$ 50,779.00</b>

Removed -  
Instead, Ardent will be using their own large dump truck.

ARISS  
10/11/21

# ARDENT



## STV/County Independent Cost Estimate, 10/8/21

Ballston-MU Station Area Improvements Project  
Arlington County, VA  
PCO 18-Lean Concrete Removal

Description of Change;  
Removal of lean concrete atop of garage slab

Task Description	Quantity	Hours	Unit	Rate	Subtotals	Comments
<b>LABOR</b>						
Foreman	1.00	80	40.00 Hrs.	\$38.00	\$1,520.00	
Laborer (skilled)	1.00	80	40.00 Hrs.	\$22.00	\$880.00	
Laborer (unskilled)	3.00	40.00	Hrs.	\$21.00	\$2,520.00	
<del>Operator</del>	<del>1</del>	<del>0.00</del>	<del>0.00 Hrs.</del>	<del>\$23.93</del>	<del>\$0.00</del>	
Add Dump Truck Driver	1	27	0.00 Hrs.	\$20.34	\$0.00	
Other	1	0.00	0.00 Hrs.	\$50.00	\$0.00	
Subtotal Labor Base:					\$4,920.00	
Ind. Labor					15.15%	\$745.38 15.15% payroll burden
Subtotal Labor:					\$5,665.38	
O&P					15.00%	\$849.81 O&P is on Base + Indirect Labor
<b>TOTAL LABOR</b>					<b>\$6,515.19</b>	
<b>EQUIPMENT</b>						
Excavator	0.00	0.00	Hrs.	\$115.85	\$0.00	
Backhoe	1.00	20	40.00 Hrs.	\$34.87	\$348.70	
Backhoe	1.00	30.00	Hrs.	\$9.39	\$281.70	
Skid Steer	1.00	40.00	Hrs.	\$29.63	\$1,185.20	
Add Dump Truck (Large)	1	27	0.00 Hrs.	\$97.40	\$0.00	
Dump Truck (Small)	0.00	0.00	Hrs.	\$46.77	\$0.00	
Hammer Drill & Air Compressor	1.00	1.00	EA	\$1,273.60	\$1,273.60	30 lb Air Hammer Drill - Rental
Blades/Chisel	1.00	3	4.00 Hrs.	\$53.00	\$53.00	Rental
Sweeper	1.00	40.00	Hrs.	\$27.16	\$1,086.40	
Service Truck	1.00	40.00	Hrs.	\$35.00	\$1,400.00	
Pickup Truck	1.00	40.00	Hrs.	\$28.26	\$1,130.40	
Subtotal Equipment:					\$6,759.00	
O&P					15.00%	\$1,013.85
<b>TOTAL EQUIPMENT:</b>					<b>\$7,772.85</b>	
<b>MATERIAL</b>						
Dump Fee	3.00	see comment	EA	\$210.00	\$630.00	Supplier (DC Materials)
Other				\$0.00	\$0.00	
Other				\$0.00	\$0.00	
Subtotal Material:					\$630.00	
Price +6% Tax					\$667.80	
O&P					15.00%	\$94.50
<b>TOTAL MATERIAL</b>					<b>\$762.30</b>	
<b>SUBCONTRACTOR</b>						
Trucking	3.00	9	Hrs	\$75.00	\$2,025.00	
	0.00			\$0.00	\$0.00	
	0.00			\$0.00	\$0.00	
	0.00			\$0.00	\$0.00	
	0.00			\$0.00	\$0.00	
Subtotal Sub:					\$2,025.00	
O&P					10.00%	\$202.50
<b>TOTAL SUB</b>					<b>\$2,227.50</b>	
<b>SUBTOTAL L+E+M:</b>					<b>\$15,050.34</b>	
Bond					0.00%	\$0.00
<b>TOTAL L+E+M+S:</b>					<b>\$17,277.84</b>	
Roundup Each (Unit):					\$17,278.00	
Total Each (Unit):					1	
<b>CO TOTAL:</b>					<b>\$17,278.00</b>	

Created by: S. Salihi, E.I.T, Resident Engineer, 10/07/21  
Checked by: A. Ronca, PE, 10/8/21

1. 5 days time was considered for the estimated task.
2. Production rate and crew size was based on current crew size for similar work.
3. Trade rates reflect effective payroll rates, plus payroll burden.
4. 2020 Rental Rate Blue Book rates were referenced and considered in preparation of this estimate.

**Section D. Original Party Estimate (PCO 16, PCO 17 & PCO 18)**



Ardent Job: 193-20

August 17, 2021

Mr. Dara Soum, P.E,  
Senior Transit Planner/Project Management Coordinator  
Arlington, VA 22201  
Tel. (office): 703-228-3202

**Re: Contract No. 20-110-9-6  
Ballston MU Metro Station Area Improvements  
Arlington County**

Dear Mr. Soum,

Ardent Company hereby submits another change order request to compensate for the extra works due to revisions in the drawing received on 8/3/2021 and earlier.

The table below summarizes the new items as well as unused line items due to the revision in the plans. The subsequent pages with this letter show in the plan the scope of these new works. We will separately send another change order for the increase in overhead expenses due to the delays as well as standpipe relocation once we have all the information.

Item#	Description	Qty	Unit	Unit Price	Total	Remarks
CO6-1	Adjust Sanitary Manhole F&C	11	EA	\$1,329.00	\$14,619.00	New Item
CO6-2	8" High C&G Construction	1	EA	\$1,678.00	\$1,678.00	New Item
CO6-3	Spreader Streetlight Foundation	8	EA	\$6,518.00	\$52,144.00	New Item
CO6-4	Spreader Flag Foundation	4	EA	\$6,392.00	\$25,568.00	New Item
CO6-5	Spreader WMATA Foundation	1	EA	\$6,108.00	\$6,108.00	New Item
CO6-6	Field Modify Str 1	1	EA	\$6,708.00	\$6,708.00	New Item
CO6-7	Streetlight Junction Box Material Difference	1	EA	\$2,326.00	\$2,326.00	New Item
CO6-8	Bus Shelter Junction Box Material Difference	2	EA	\$2,326.00	\$4,652.00	New Item
CO6-9	Unsuable Bus shelter Junction Box	3	EA	\$437.50	\$1,312.50	New Item
<del>CO6-10</del>	<del>Relocate Fire Hydrant</del>	<del>1</del>	<del>EA</del>	<del>\$16,060.00</del>	<del>\$16,060.00</del>	<del>New Item</del>
18	Catch Basin, Arlington County PCB-2 or VDOT DI-3B, 8' Length	-1	EA	\$6,000.00	(\$6,000.00)	Credit

21	15" Pipe, RCP Class III, In Place Up to 6' Deep	-12	LF	\$90.00	(\$1,080.00)	Credit
26	Abandon & Fill Existing Catch Basin / Inlet	-1	EA	\$1,000.00	(\$1,000.00)	Credit
27	Abandon & Fill 15" RCP	-140	LF	\$15.00	(\$2,100.00)	Credit
28	Adjust Catch Basin to New Grade	-3	EA	\$1,500.00	(\$4,500.00)	Credit
36	Remove & Reset Fire Hydrant	-1	EA	\$5,500.00	(\$5,500.00)	Credit
49	F&I Light Pole Foundation	-8	EA	\$1,500.00	(\$12,000.00)	Credit
53	F&I Building Light Fixture	-3	EA	\$350.00	(\$1,050.00)	Credit
58	Relocate Telecom Junction Box / Vault	-2	EA	\$1,500.00	(\$3,000.00)	Credit
60	Lower Telecom Lines Beneath New Storm Drain Pipe	-1	LS	\$5,000.00	(\$5,000.00)	Credit
61	Lower Electrical Ductbank beneath Planter	-1	LS	\$5,000.00	(\$5,000.00)	Credit
128	Comm Handhole (Junction Box County St'd. TS4-6)	-3	EA	\$1,500.00	(\$4,500.00)	Credit
<b>Total Net Change to Contract</b>					<b>\$ 80,445.50</b>	

Should you have any questions, please do not hesitate to contact me.

Sincerely,  
**Ardent Company, LLC**



Arash Hooshangi, P.E.  
 Managing Director



**Cost Breakdown For C&G****Labor & Equipment Costs****Labor**

Classification	Days	Hours (ST)	Hours (OT)	Rate (hr)	OT Rate (hr)	Total
Foreman	1	6		\$ 43.70		\$ 262.20
Laborer	1	6		\$ 25.30		\$ 151.80
Laborer	1	6		\$ 24.12		\$ 144.69
Laborer	1	6		\$ 24.12		\$ 144.69
Laborer	1	6		\$ 24.15		\$ 144.90
Total						\$ 848.29

**Equipment**

Equipment	Days	Hours (Active)	Hours (Stby)	Rate (Active)	Rate (Stby)	Total
Pick up Truck, Silverado 1500	1	6	0	\$ 28.26		\$ 169.56
Skid Steer, John Deere 317	1	6	0	\$ 29.63		\$ 177.78
Total						\$ 486.82

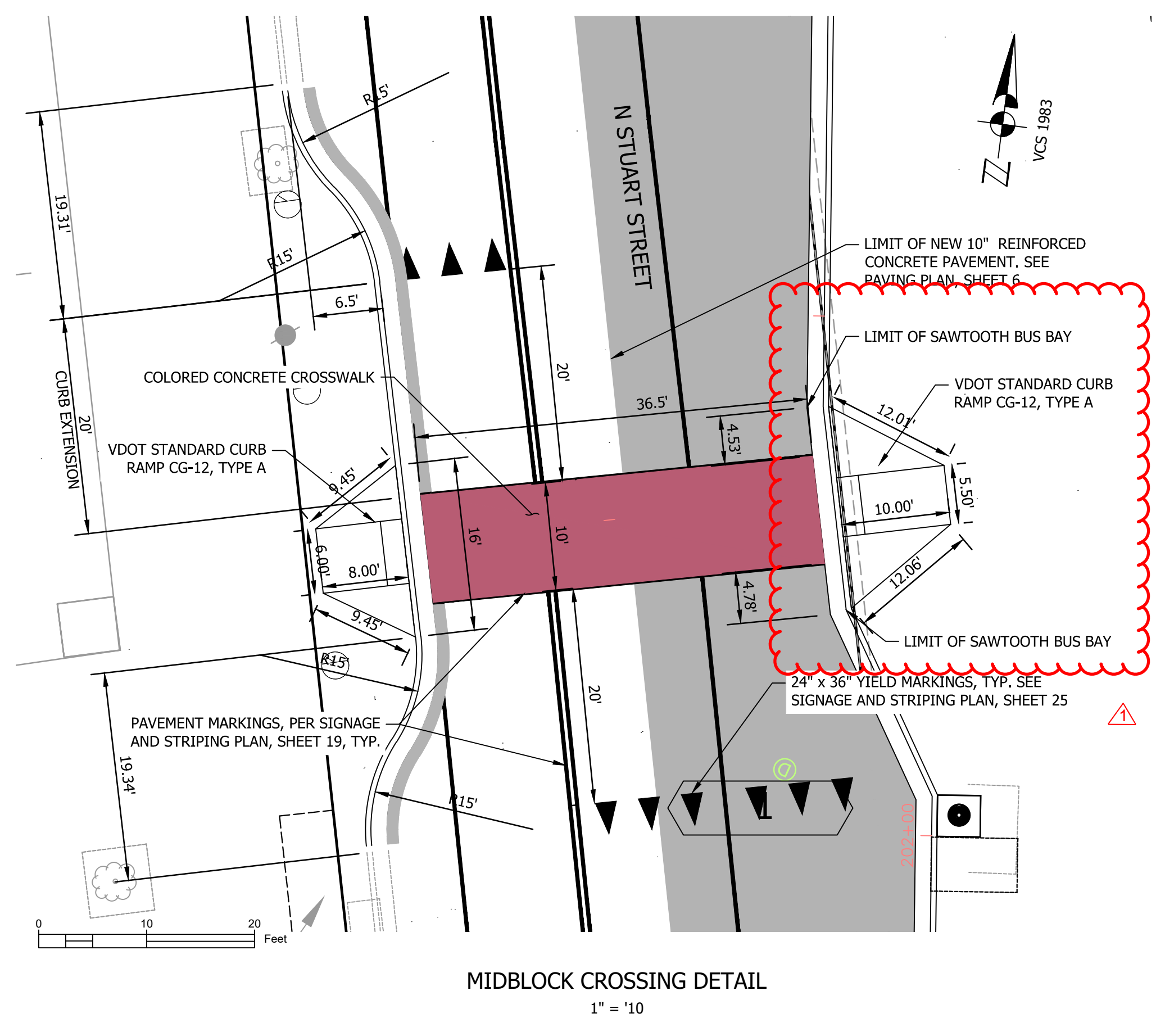
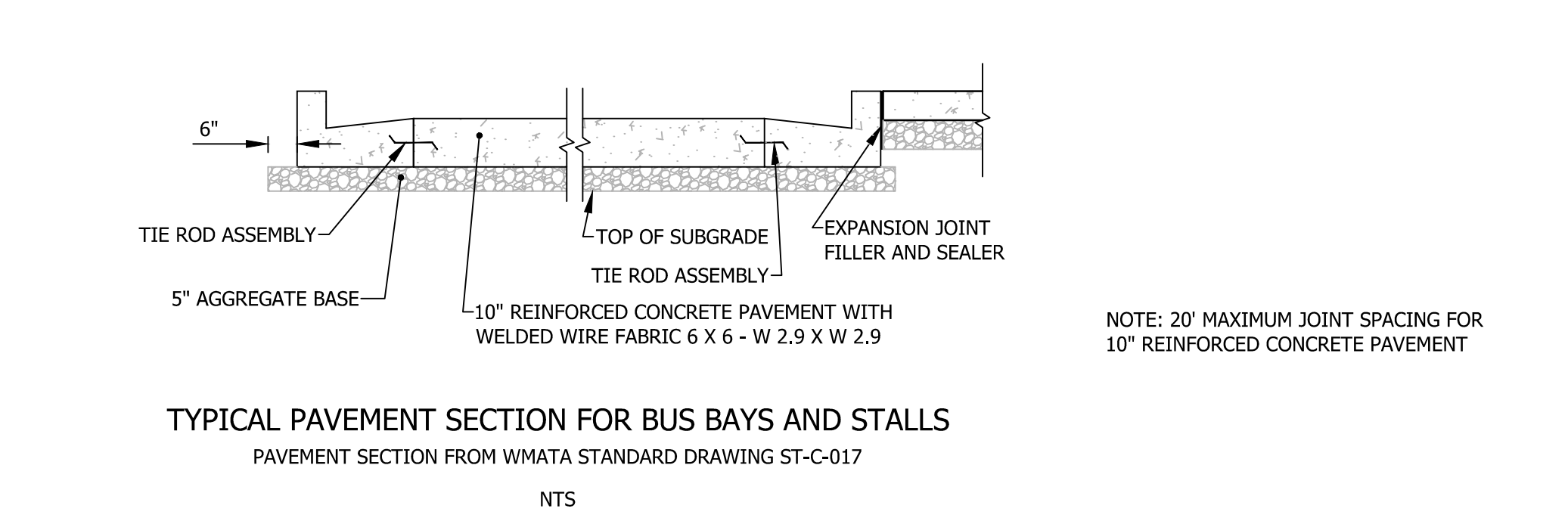
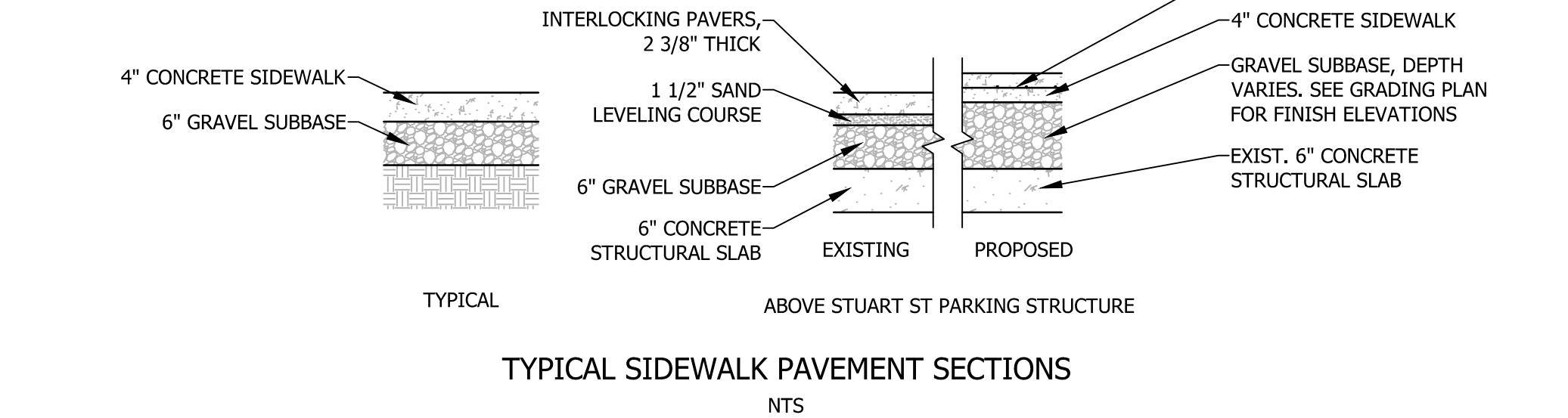
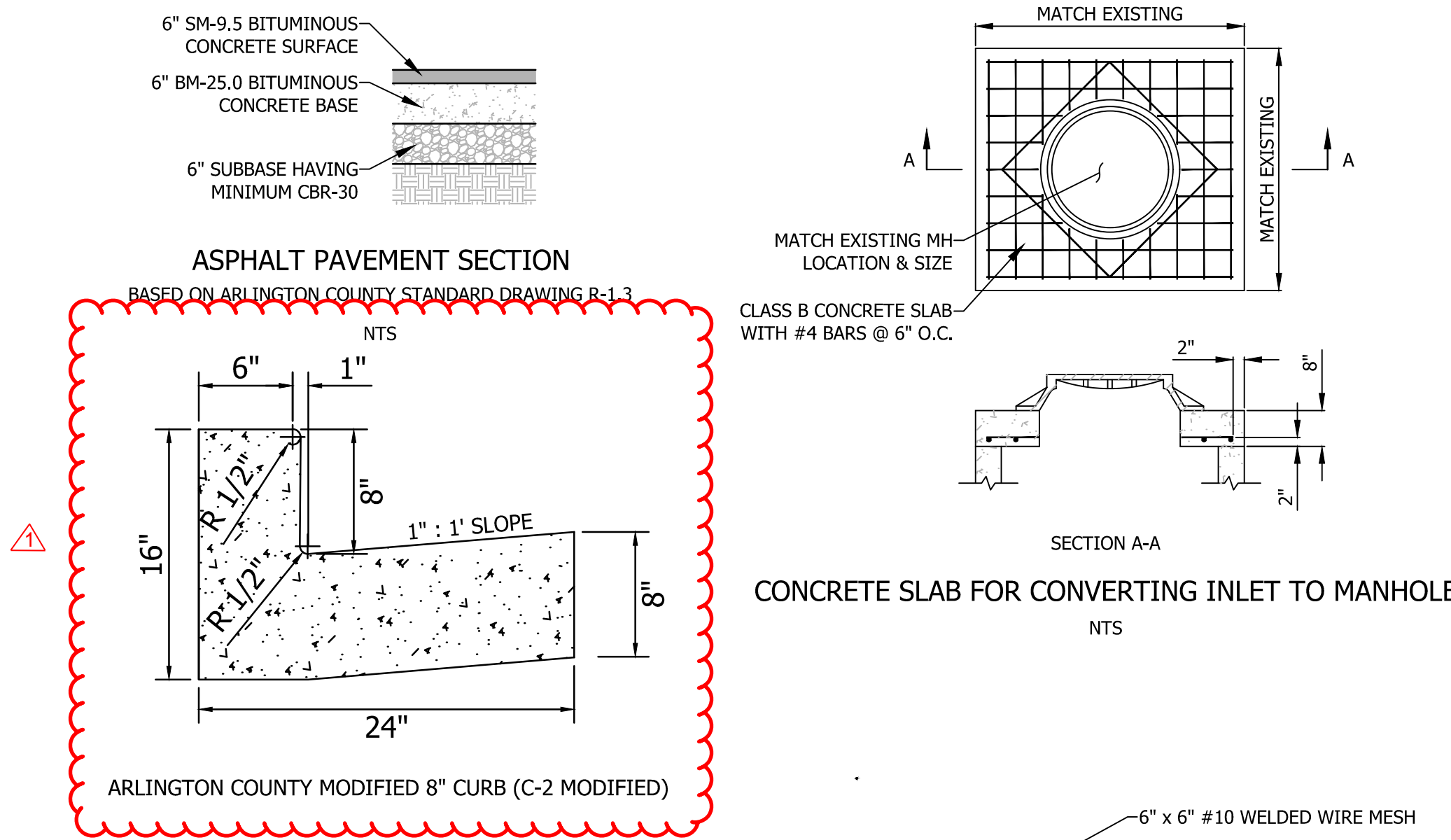
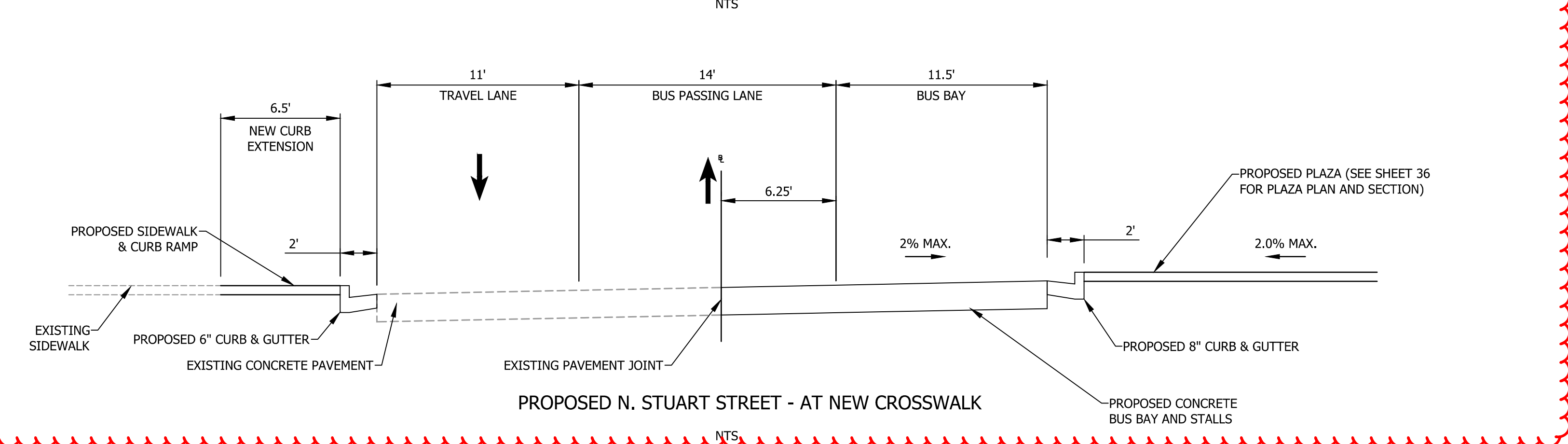
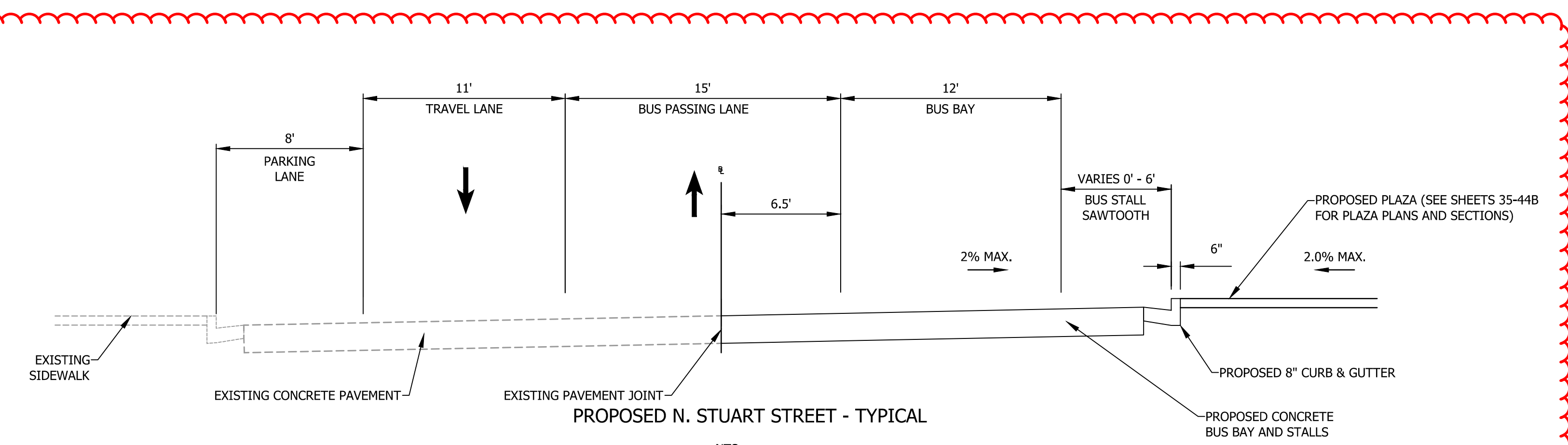
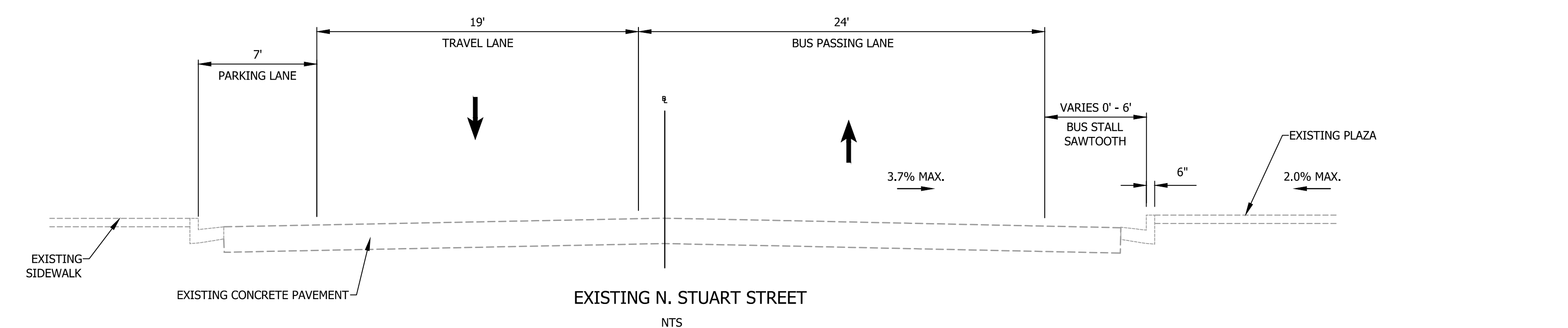
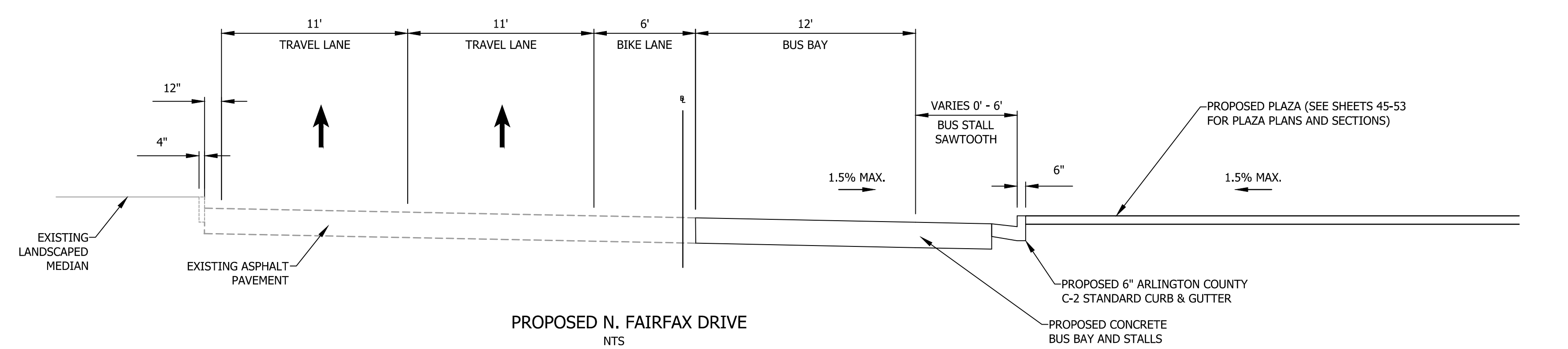
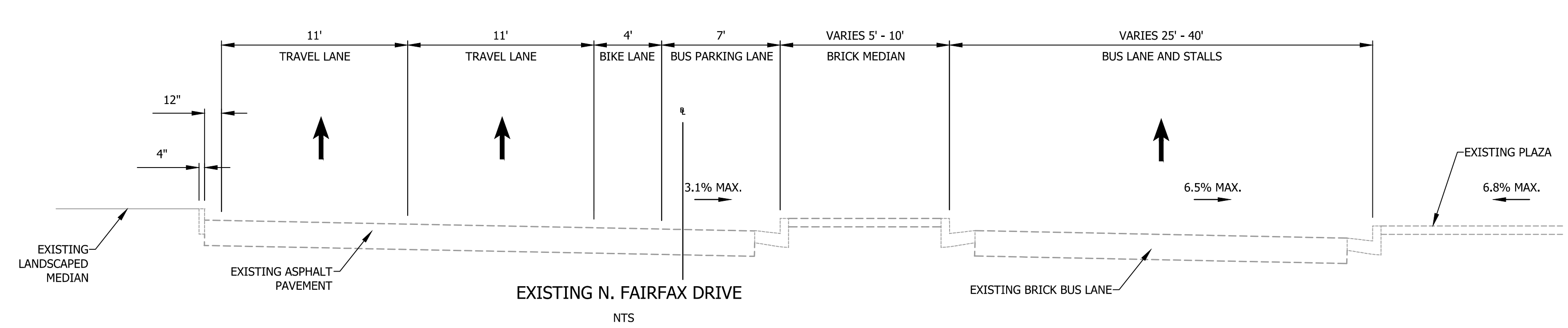
**Material**

Material	Supplier	Quantity	Unit	Unit Price	Unit Price + Tax	Total
Concrete	Titan	0.74	CY	\$ 157.50	\$ 166.95	\$ 123.54
Total						\$ 123.54

**Subcontractor**

Work	Sub Contractor	Day	Hours	Rate	Lump Sum	Total
						\$ -
						\$ -
					Allowance (10%)	\$ -
Total						\$ -

<b>Base Cost (Labor + Equipment + Material)</b>	<b>\$ 1,459.00</b>
<b>Base Cost Overhead and Profit (15%)</b>	<b>\$ 218.85</b>
<b>Subcontractor Cost Inc Overhead (10%)</b>	<b>\$ -</b>
<b>Total</b>	<b>\$ 1,678.00</b>



**ARLINGTON VIRGINIA**

DEPARTMENT OF ENVIRONMENTAL SERVICES

Division of Transportation  
Transit Bureau  
Suite 900, 2100 Clarendon Boulevard  
VA, Arlington 22201  
Phone: 703.228.3344  
Fax: 703.228.0630  
Copyright © 2011 Arlington County Virginia - All Rights Reserved

Seal  
COMMONWEALTH OF VIRGINIA  
CAROLINE BENNETT RICE  
Lic. No. 057186  
Professional Engineer

Approvals \_\_\_\_\_ Date \_\_\_\_\_

TRANSPORTATION DIRECTOR \_\_\_\_\_

TRANSIT BUREAU CHIEF \_\_\_\_\_

QUALITY CONTROL ENGINEER \_\_\_\_\_

STREETS BUREAU CHIEF - SEWER/WATER \_\_\_\_\_

CONSTRUCTION MANAGER SUPERVISOR \_\_\_\_\_

PROGRAM MANAGER \_\_\_\_\_

Revisions \_\_\_\_\_ Date \_\_\_\_\_

▲ Stuart St Redesign 05-28-21

---

Project Name and Location  
**Roadway Typical Sections**  
MU Station - Ballston  
MU Multimodal Improvements - Ballston

Designed RICE.C  
Drawn RICE.C  
Checked ROBERTS.C  
Miss Utility Transmittal #: ####  
Filename Typical Sections.dwg\_09\_647881  
Path Arlington Ballston MU Drawings\Stuart St Redesign Sheet 2  
Plotted May 28, 2021  
Plotted by p0029986  
Scale As Noted

Sheet  
9 of 68

## Cost Breakdown For Streetlight Foundations

### Labor & Equipment Costs

#### Labor

Classification	Days	Hours (ST)	Hours (OT)	Rate (hr)	OT Rate (hr)	Total
Foreman	2	8		\$ 43.70		\$ 699.20
Laborer	2	8		\$ 25.30		\$ 404.80
Laborer	2	8		\$ 24.12		\$ 385.92
Laborer	2	8		\$ 24.12		\$ 385.92
Laborer	2	8		\$ 24.15		\$ 386.40
Total						\$ 2,262.24

#### Equipment

Equipment	Days	Hours (Active)	Hours (Stby)	Rate (Active)	Rate (Stby)	Total
Pick up Truck, Silverado 1500	2	8	0	\$ 28.26		\$ 452.16
Skid Steer, John Deere 317	2	8	0	\$ 29.63		\$ 474.08
Total						\$ 926.24

#### Material

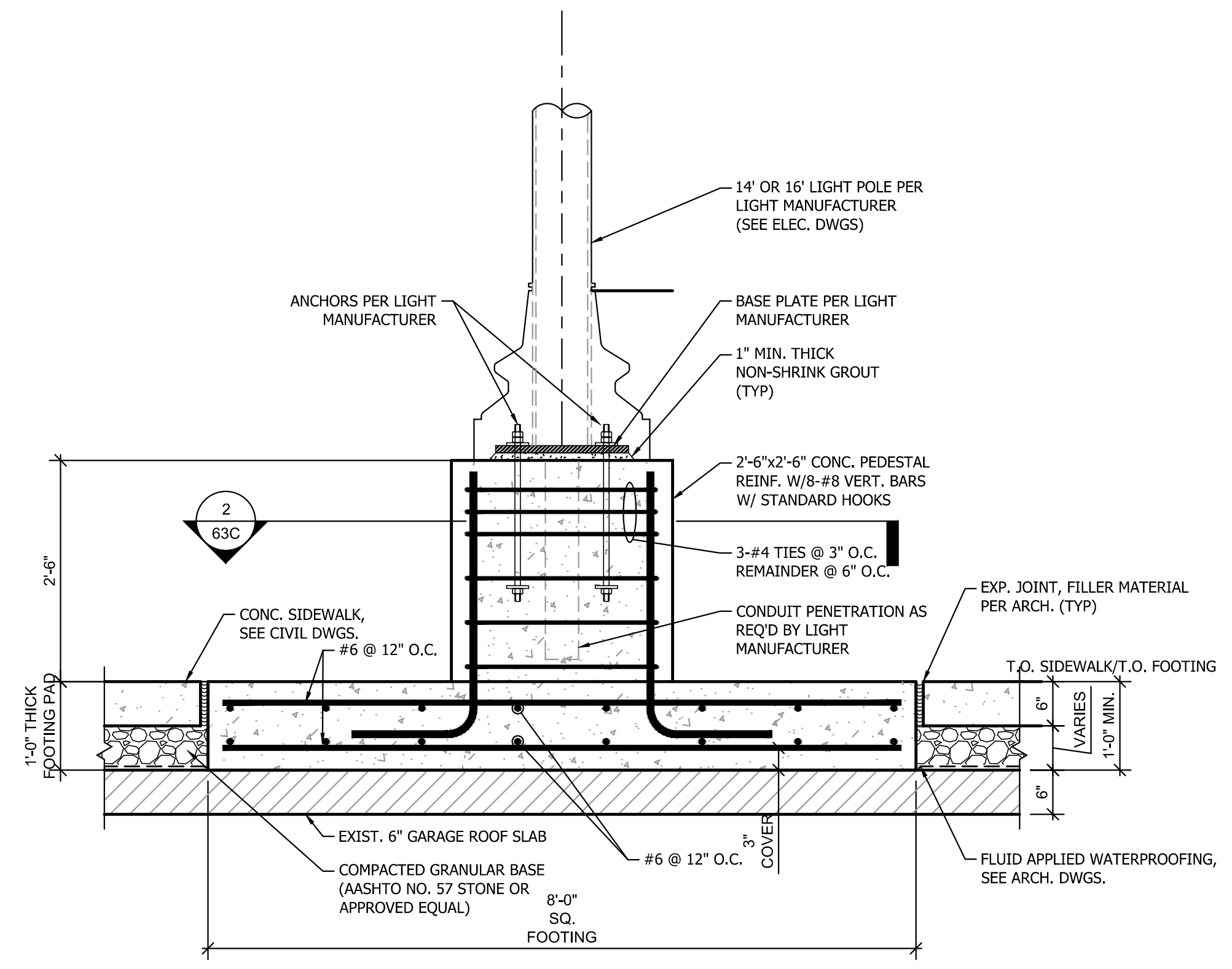
Material	Supplier	Quantity	Unit	Unit Price	Unit Price + Tax	Total
Rebars		1	LS	\$ 492.31	\$ 521.85	\$ 521.85
Rebar Delivery Fee		1	LS	\$ 50.00	\$ 50.00	\$ 50.00
Anchor Bolt		1	LS	\$ 210.00	\$ 222.60	\$ 222.60
Forms, curing compounds, form release		1	LS	\$ 250.00	\$ 265.00	\$ 265.00
Groundrod and miscellaneous		1	EA	\$ 100.00	\$ 106.00	\$ 106.00
Conduits and cables		1	EA	\$ 50.00	\$ 53.00	\$ 53.00
Colored Concrete		1	LS	\$ 999.95	\$ 1,059.95	\$ 1,259.95
Total						\$ 2,478.39

#### Subcontractor

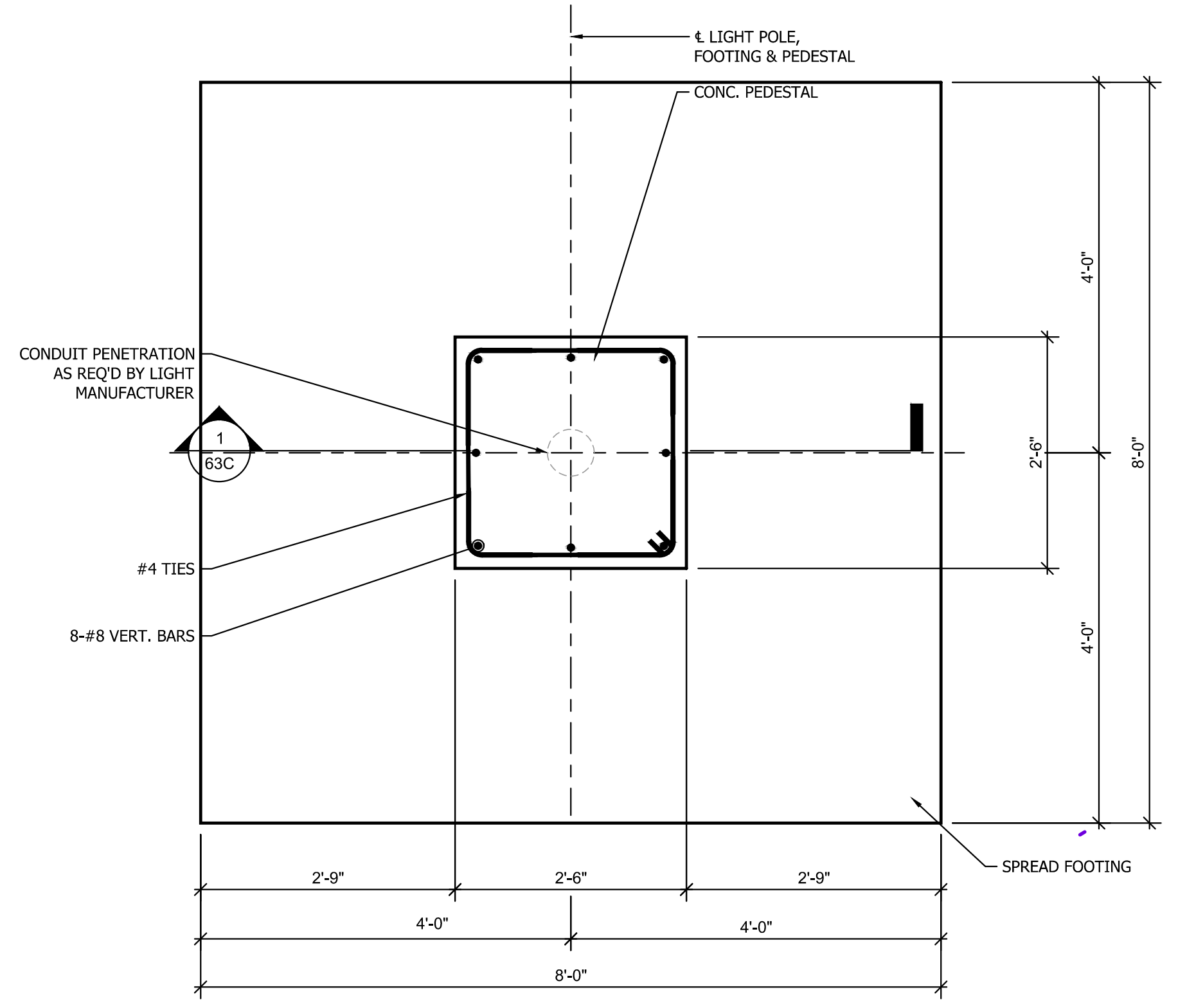
Work	Sub Contractor	Day	Hours	Rate	Lump Sum	Total
						\$ -
						\$ -
					Allowance (10%)	\$ -
Total						\$ -

<b>Base Cost (Labor + Equipment + Material)</b>	<b>\$ 5,667.00</b>
<b>Base Cost Overhead and Profit (15%)</b>	<b>\$ 850.05</b>
<b>Subcontractor Cost Inc Overhead (10%)</b>	<b>\$ -</b>
<b>Total</b>	<b>\$ 6,518.00</b>

Volume of Modified Foundation (CF) (8\*8\*1+2.5\*2.5\*2.5)\*1 91.57  
 Price Per CY for colored concrete (140+65+15+1.5+7) \$ 228.50  
 Price Including Truck wash fee/short load \$ 999.95



**1 LIGHT POLE FOOTING - SECTION**  
3/4" = 1'-0"



**2 LIGHT POLE FOOTING PLAN**  
3/4" = 1'-0"



DEPARTMENT OF ENVIRONMENTAL SERVICES

Division of Transportation  
Transit Bureau  
Suite 900, 2100 Clarendon Boulevard  
VA, Arlington 22201  
Phone: 703.228.3344  
Fax: 703.228.0630  
Copyright © 2011 Arlington County Virginia - All Rights Reserved

Seal



Approvals \_\_\_\_\_ Date \_\_\_\_\_

TRANSPORTATION DIRECTOR \_\_\_\_\_

TRANSIT BUREAU CHIEF \_\_\_\_\_

CONSTRUCTION COORDINATOR \_\_\_\_\_

STREETS BUREAU CHIEF, SEWER, WATER \_\_\_\_\_

PROJECT MANAGER \_\_\_\_\_

Revisions \_\_\_\_\_ Date \_\_\_\_\_

Project Name and Location  
**Light Pole Foundation Details**

MU Station - Ballston  
MU Multimodal Improvements - Ballston

####

:Designed SENGUPTA.D  
:Drawn CIRAFICI.J  
:Checked ROBERTS.C  
Miss Utility Transmittal #: ####

:Filename 63C\_Light PoleFoundation Details.dwg  
:Path Arlington Ballston MU Drawings\Stuart St Redesign Sheets  
:Plotted May 28, 2021  
:Plotted by p006957D

:Scale 1" = 1'-0"

Sheet  
**63C of 68**

## Cost Breakdown For Flag Foundation

### Labor & Equipment Costs

#### Labor

Classification	Days	Hours (ST)	Hours (OT)	Rate (hr)	OT Rate (hr)	Total
Foreman	2	8		\$ 43.70		\$ 699.20
Laborer	2	8		\$ 25.30		\$ 404.80
Laborer	2	8		\$ 24.12		\$ 385.92
Laborer	2	8		\$ 24.12		\$ 385.92
Laborer	2	8		\$ 24.15		\$ 386.40
Total						\$ 2,262.24

#### Equipment

Equipment	Days	Hours (Active)	Hours (Stby)	Rate (Active)	Rate (Stby)	Total
Pick up Truck, Silverado 1500	2	8	0	\$ 28.26		\$ 452.16
Skid Steer, John Deere 317	2	8	0	\$ 29.63		\$ 474.08
Total						\$ 926.24

#### Material

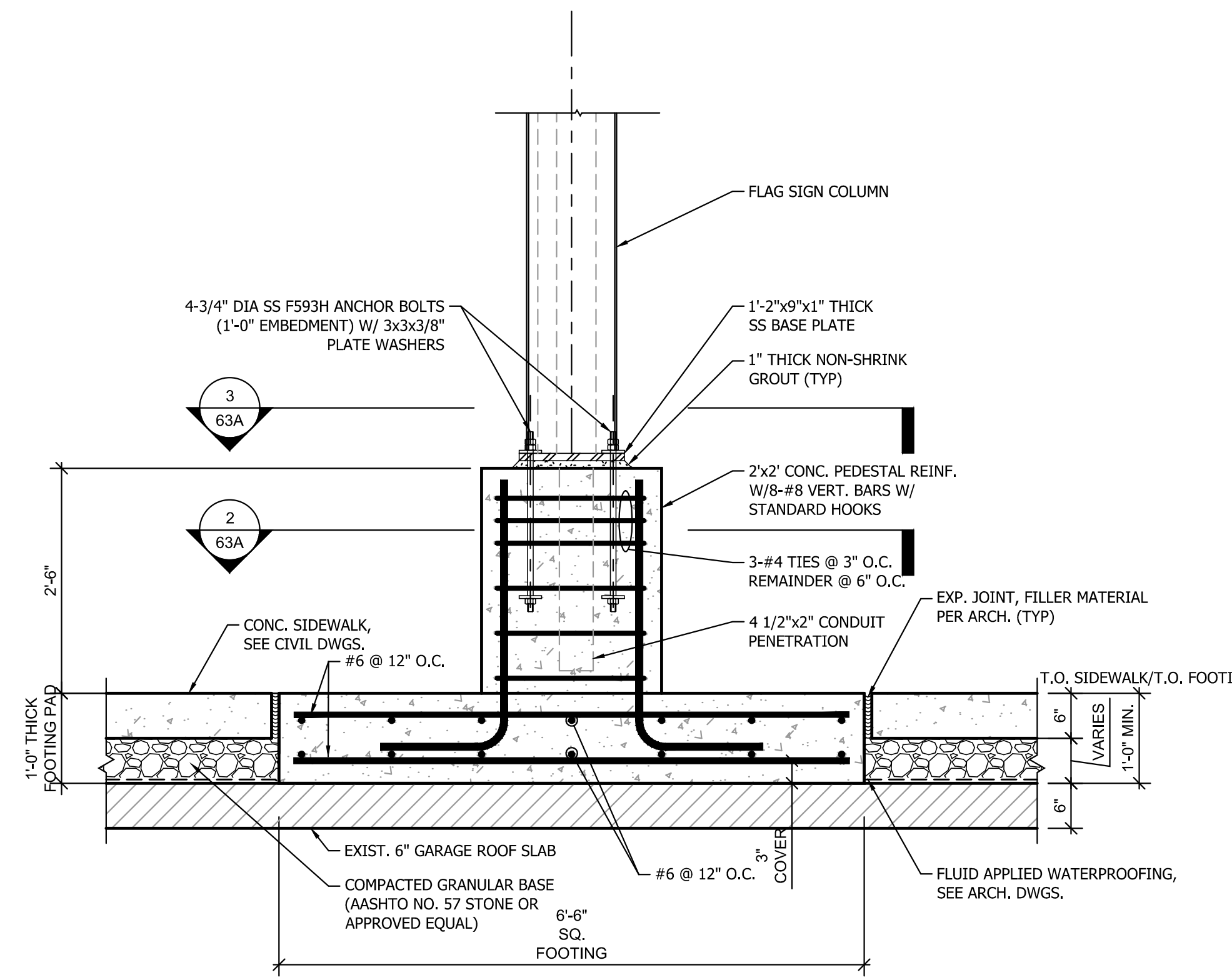
Material	Supplier	Quantity	Unit	Unit Price	Unit Price + Tax	Total
Rebars		1	LS	\$ 492.31	\$ 521.85	\$ 521.85
Rebar Delivery Fee		1	LS	\$ 50.00	\$ 50.00	\$ 50.00
Anchor Bolt with nuts and washers		1	LS	\$ 373.40	\$ 395.80	\$ 395.80
Forms, curing compounds, form release		1	LS	\$ 250.00	\$ 265.00	\$ 265.00
Groundrod and miscellaneous		1	EA	\$ 100.00	\$ 106.00	\$ 106.00
Conduits and cables		1	EA	\$ 50.00	\$ 53.00	\$ 53.00
Colored Concrete		1	LS	\$ 733.54	\$ 777.55	\$ 977.55
Total						\$ 2,369.20

#### Subcontractor

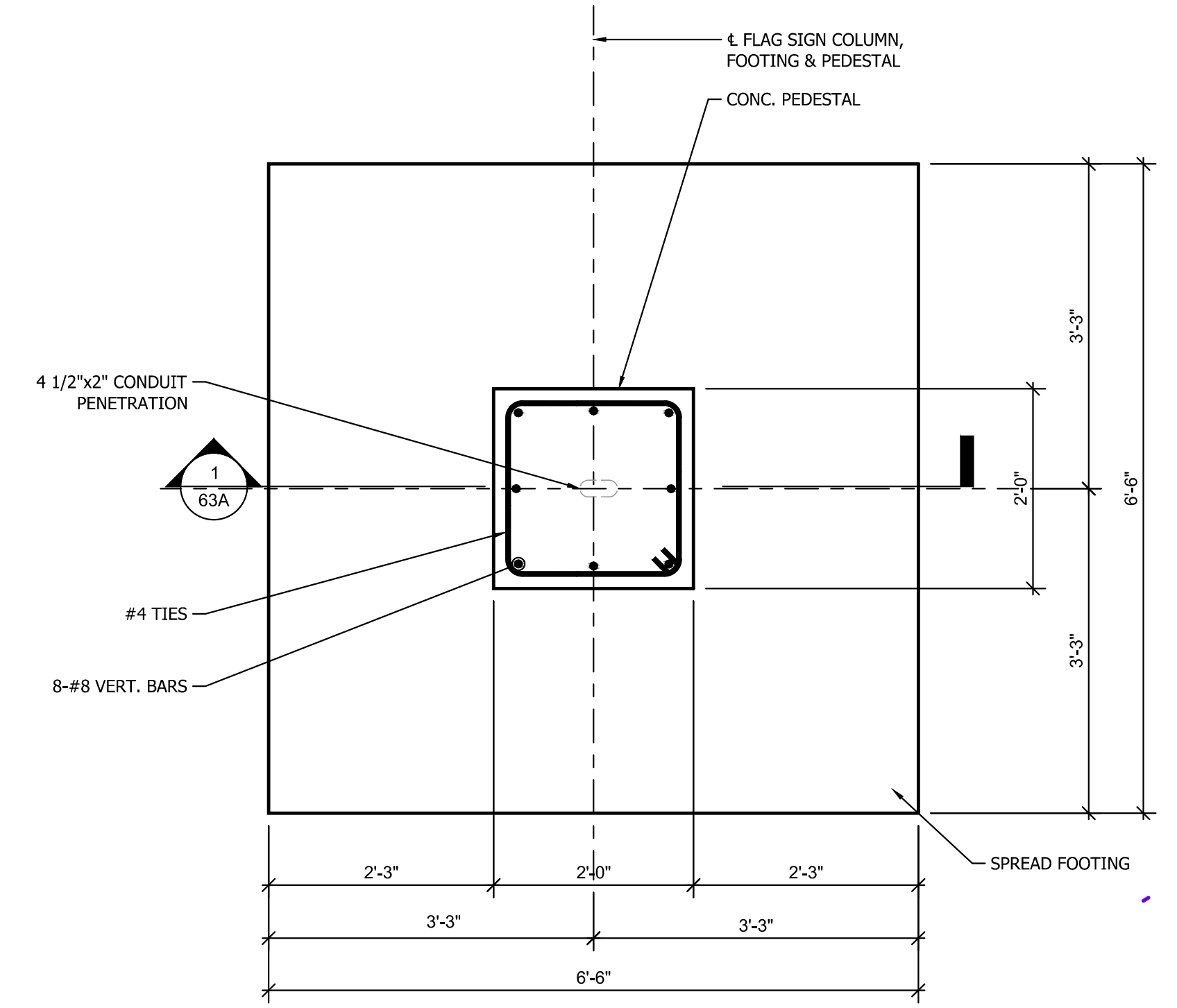
Work	Sub Contractor	Day	Hours	Rate	Lump Sum	Total
						\$ -
						\$ -
					Allowance (10%)	\$ -
Total						\$ -

<b>Base Cost (Labor + Equipment + Material)</b>	<b>\$ 5,558.00</b>
<b>Base Cost Overhead and Profit (15%)</b>	<b>\$ 833.70</b>
<b>Subcontractor Cost Inc Overhead (10%)</b>	<b>\$ -</b>
<b>Total</b>	<b>\$ 6,392.00</b>

Volume of Modified Foundation (CF) (6.5\*6.5\*1+2.5\*2\*2)\*1 60.09  
 Price Per CY for colored concrete (140+65+15+1.5+7) \$ 228.50  
 Price Including Truck wash fee/short load \$ 733.54

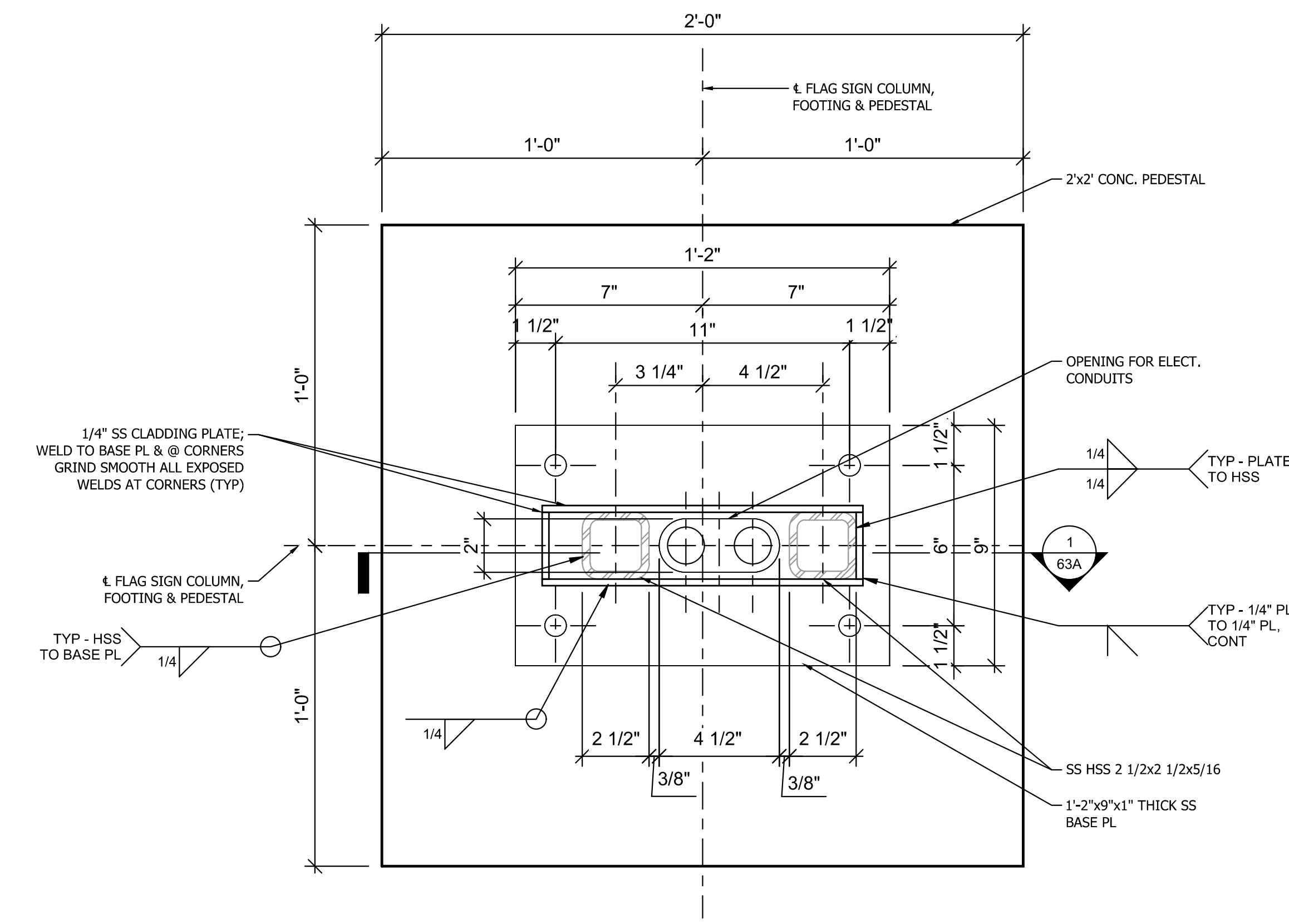


1 FLAG SIGN FOOTING - SECTION  
3/4" = 1'-0"



2 FLAG SIGN FOOTING PLAN  
3/4" = 1'-0"

- NOTES**
- THIS REVISED DRAWING IS APPLICABLE ONLY FOR FLAG SIGN FAIRFAX LOCATIONS ALONG N STUART STREET DRIVE STILL REFER TO DWG 63A IN ORIGINAL DESIGN PACKAGE
  - GARAGE WATERPROOFING IDENTIFIED ON TOP OF EXIST ANY EXIST CONTRACTOR TO TAKE ROOF SLAB MUST NOT BE DAMAGED WATERPROOFING NECESSARY PRECAUTIONS TO PROTECT EXIST



3 FLAG SIGN BASE PLATE - DETAIL  
3" = 1'-0"

**ARLINGTON VIRGINIA**

DEPARTMENT OF ENVIRONMENTAL SERVICES

Division of Transportation  
Transit Bureau  
Suite 900, 2100 Clarendon Boulevard  
VA, Arlington 22201  
Phone: 703.228.3344  
Fax: 703.228.0630  
Copyright © 2011 Arlington County Virginia - All Rights Reserved



Approvals \_\_\_\_\_ Date \_\_\_\_\_

TRANSPORTATION DIRECTOR \_\_\_\_\_

TRANSIT BUREAU CHIEF \_\_\_\_\_

CONSTRUCTION COORDINATOR \_\_\_\_\_

STREETS BUREAU CHIEF, SEWER, WATER \_\_\_\_\_

PROJECT MANAGER \_\_\_\_\_

Revisions \_\_\_\_\_ Date \_\_\_\_\_

Stuart St Redesign 5/25/21

Project Name and Location  
**Sign Flag Foundation Details**

MU Station - Ballston  
MU Multimodal Improvements - Ballston

####

Designed: SENGUPTA, D  
Drawn: RICE, C  
Checked: ROBERTS, C  
Miss Utility Transmittal #: ####

Filename: 63A\_SignFoundationDetails.dwg\_64781  
Path: Arlington Ballston MU Drawings\Stuart St Redesign Sheets  
Plotted: May 26, 2021  
Plotted by: p006957D

Scale: 1" = 1'-0"

## Cost Breakdown For WMATA Pylon Foundation

### Labor & Equipment Costs

#### Labor

Classification	Days	Hours (ST)	Hours (OT)	Rate (hr)	OT Rate (hr)	Total
Foreman	2	8		\$ 43.70		\$ 699.20
Laborer	2	8		\$ 25.30		\$ 404.80
Laborer	2	8		\$ 24.12		\$ 385.92
Laborer	2	8		\$ 24.12		\$ 385.92
Laborer	2	8		\$ 24.15		\$ 386.40
Total						\$ 2,262.24

#### Equipment

Equipment	Days	Hours (Active)	Hours (Stby)	Rate (Active)	Rate (Stby)	Total
Pick up Truck, Silverado 1500	2	8	0	\$ 28.26		\$ 452.16
Skid Steer, John Deere 317	2	8	0	\$ 29.63		\$ 474.08
Total						\$ 926.24

#### Material

Material	Supplier	Quantity	Unit	Unit Price	Unit Price + Tax	Total
Rebars		1	LS	\$ 492.31	\$ 521.85	\$ 521.85
Rebar Delivery Fee		1	LS	\$ 50.00	\$ 50.00	\$ 50.00
Anchor Bolt with nuts and washers		1	LS	\$ 373.40	\$ 395.80	\$ 395.80
Forms, curing compounds, form release		1	LS	\$ 250.00	\$ 265.00	\$ 265.00
Groundrod and miscellaneous		1	EA	\$ 100.00	\$ 106.00	\$ 106.00
Conduits and cables		1	EA	\$ 50.00	\$ 53.00	\$ 53.00
Concrete		1	LS	\$ 500.53	\$ 530.56	\$ 730.56
Total						\$ 2,122.21

#### Subcontractor

Work	Sub Contractor	Day	Hours	Rate	Lump Sum	Total
						\$ -
						\$ -
					Allowance (10%)	\$ -
Total						\$ -

Volume of Modified Foundation (CF) (6.5\*6.5\*1+2.5\*2\*2)\*1 60.09  
 Price Per CY for Regular concrete (134+15+1.5+7) \$ 157.50  
 Price Including short load fee \$ 500.53

<b>Base Cost (Labor + Equipment + Material)</b>	<b>\$ 5,311.00</b>
<b>Base Cost Overhead and Profit (15%)</b>	<b>\$ 796.65</b>
<b>Subcontractor Cost Inc Overhead (10%)</b>	<b>\$ -</b>
<b>Total</b>	<b>\$ 6,108.00</b>





**Cost Breakdown For Field Modification of Str -1**

**Labor & Equipment Costs**

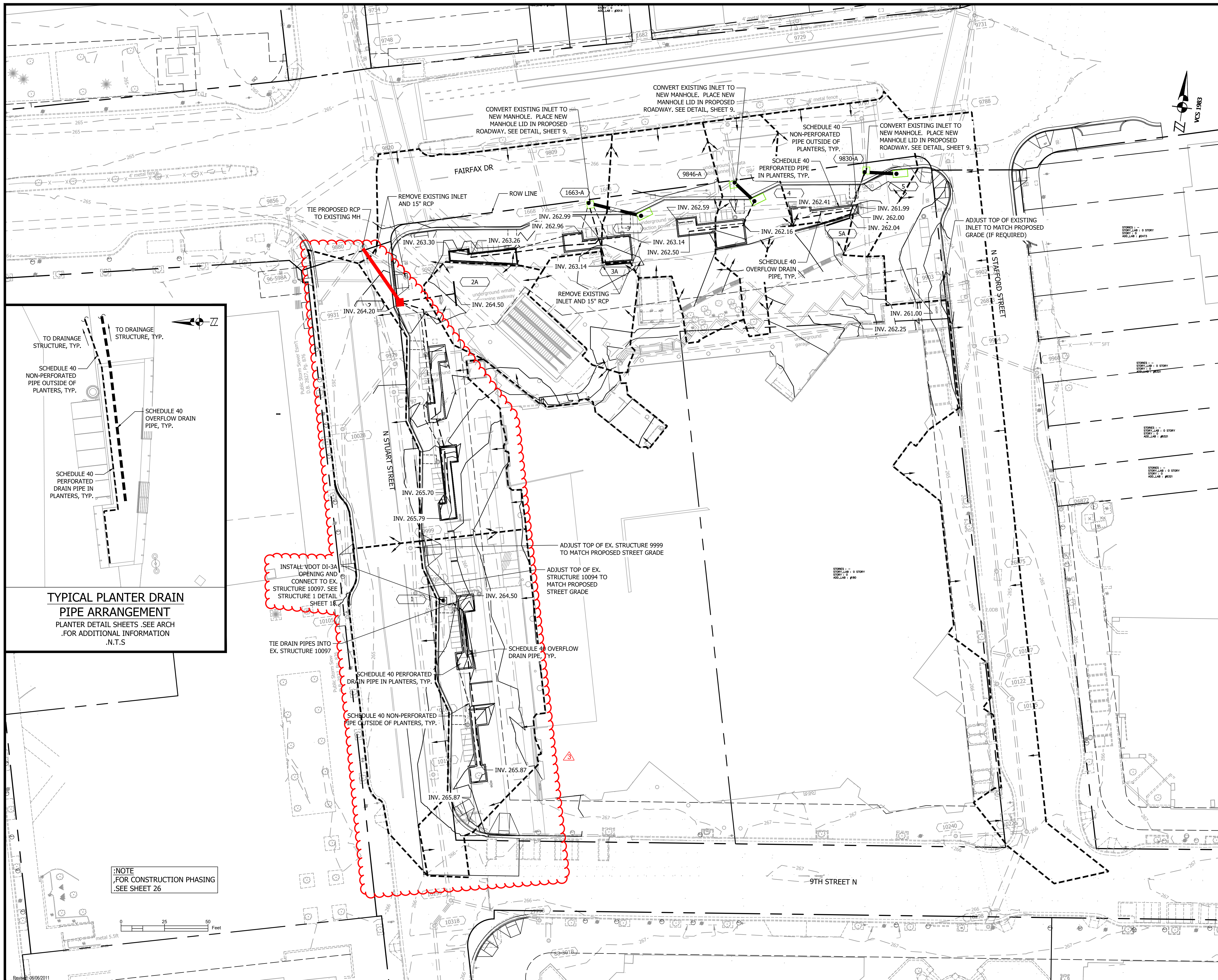
<b>Labor</b>						
Classification	Days	Hours (ST)	Hours (OT)	Rate (hr)	OT Rate (hr)	Total
Foreman	2	8		\$ 43.70		\$ 699.20
Laborer	2	8		\$ 25.30		\$ 404.80
Laborer	2	8		\$ 24.12		\$ 385.92
Laborer	2	8		\$ 24.12		\$ 385.92
Laborer	2	8		\$ 24.15		\$ 386.40
Total						\$ 2,262.24

<b>Equipment</b>						
Equipment	Days	Hours (Active)	Hours (Stby)	Rate (Active)	Rate (Stby)	Total
Backhoe	2	8	0	\$ 35.76		\$ 572.16
Pick up Truck, Silverado 1500	2	8	0	\$ 28.26		\$ 452.16
Skid Steer, John Deere 317	2	8	0	\$ 29.63		\$ 474.08
Concrete Saw	2	8	0	\$ 23.69		\$ 379.04
Dump Truck (Small)	1	8	0	\$ 46.77		\$ 374.16
Total						\$ 2,251.60

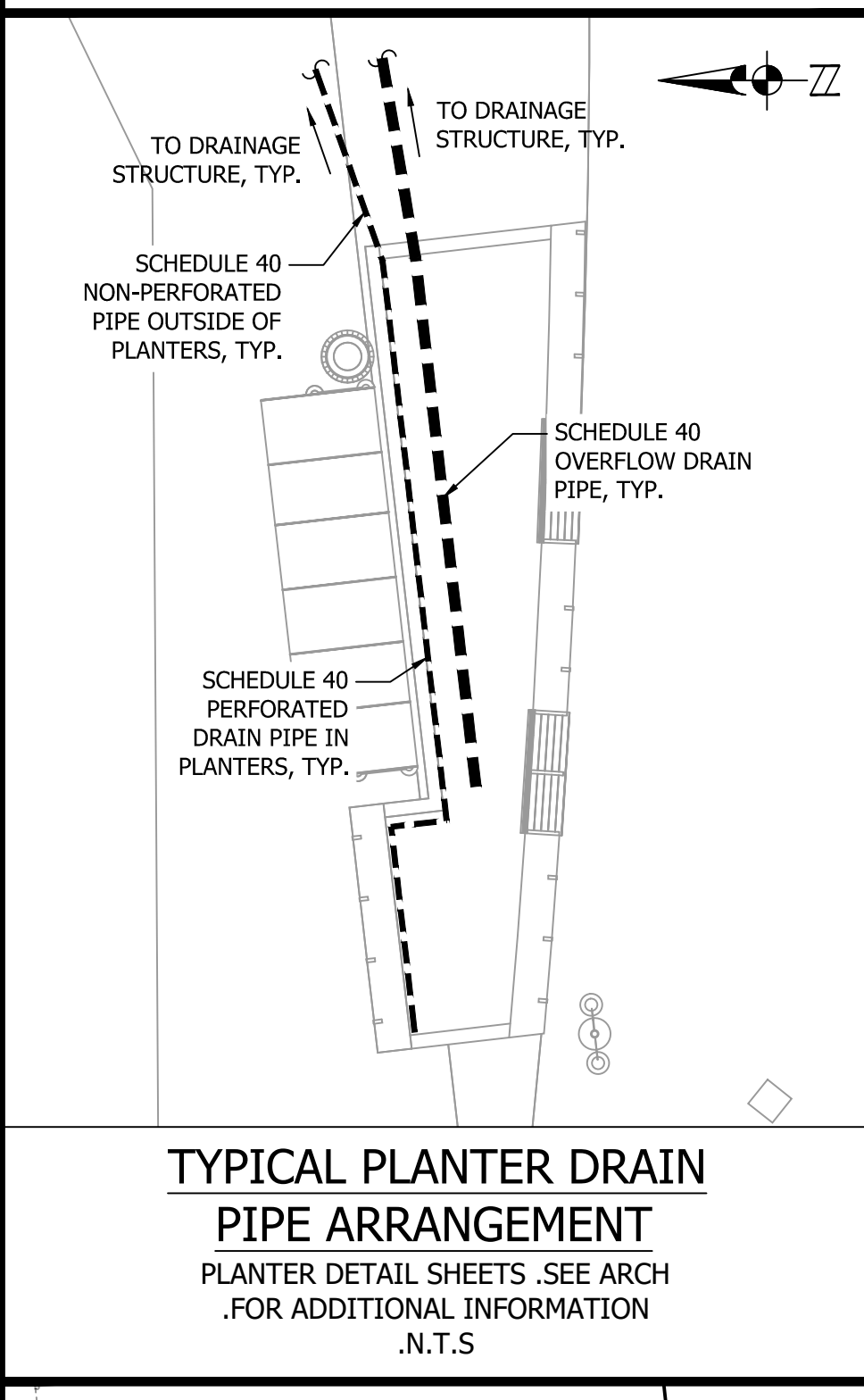
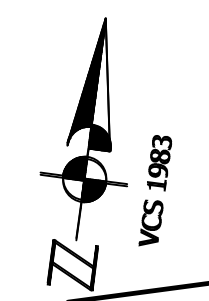
<b>Material</b>						
Material	Supplier	Quantity	Unit	Unit Price	Unit Price + Tax	Total
Rebars		1	LS	\$ 200.00	\$ 212.00	\$ 212.00
F&C and Angles		1	LS	\$ 357.59	\$ 379.05	\$ 379.05
Forms, curing compounds, form release		1	LS	\$ 250.00	\$ 265.00	\$ 265.00
Concrete		1	LS	\$ 248.00	\$ 262.88	\$ 462.88
Total						\$ 1,318.93

<b>Subcontractor</b>						
Work	Sub Contractor	Day	Hours	Rate	Lump Sum	Total
						\$ -
						\$ -
					Allowance (10%)	\$ -
Total						\$ -

Volume of Concrete	(4*2.5*.67+4.72*2.5*.67)	16.8				
Price Per CY for Regular concrete	(134+15+1.5+7)	\$ 157.50				
Price Including short load fee		\$ 248.00				
<b>Base Cost (Labor + Equipment + Material)</b>						<b>\$ 5,833.00</b>
<b>Base Cost Overhead and Profit (15%)</b>						<b>\$ 874.95</b>
<b>Subcontractor Cost Inc Overhead (10%)</b>						<b>\$ -</b>
<b>Total</b>						<b>\$ 6,708.00</b>



LEGEND  
 Drainage Divide

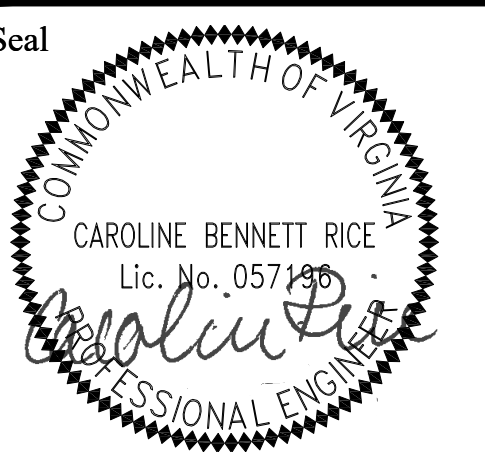


NOTE  
 FOR CONSTRUCTION PHASING  
 SEE SHEET 26

- MODIFIED STORM SEWER / NEW**
- 1#  
 INSTALL VDOT DI-3A OPENING 2'-6" LENGTH AND CONNECT TO EX. .NOM STRUCTURE 10097  
 TOP = 263.30  
 OD( 264.50 = PVC IN "4  
 PERF( 264.50 = PVC IN "4.(  
 RCP OUT "15 = 262.20 )(10094
  - #2A  
 LENGTH .NOM "14 ,TRENCH DRAIN  
 TOP = 265.21  
 RCP OUT "15 = 260.50 )(2
  - 2#  
 LENGTH .NOM "4 ,PCB-2 .CO .ARL  
 TOP = 265.38  
 OD( 264.20 = PVC IN "4  
 PERF( 264.20 = PVC IN "4.(  
 2A)( 261.75 = PVC IN "6  
 RCP OUT "15 = 260.00 )(9880
  - #3A  
 LENGTH .NOM "14 ,TRENCH DRAIN  
 TOP = 265.40  
 A)( 263.14 = PVC OUT "6 1663
  - 3#  
 LENGTH .NOM "8 ,VDOT DI-3B  
 TOP = 265.76  
 A)( 263.19 = RCP OUT "15 1663
  - #A 1663  
 CONVERT INLET TO MH  
 TOP = 265.71  
 PERF( 262.80 = PVC IN "4.(  
 PERF( 262.80 = PVC IN "4.(  
 3A)( 262.80 = PVC IN "6  
 RCP IN "15 = 262.80 )(3  
 RCP OUT "15 = 262.75 )(1668
  - 4#  
 LENGTH .NOM "8 ,VDOT DI-3B  
 TOP = 265.75  
 OD( 262.00 = PVC IN "4  
 OD( 262.00 = PVC IN "4  
 PERF( 262.00 = PVC IN "4.(  
 A)( 261.65 = RCP OUT "15 9846
  - #A 9846  
 CONVERT INLET TO MH  
 TOP = 265.74  
 RCP IN "15 = 261.46 )(4  
 RCP OUT "15 = 260.11 )(24175
  - #5A  
 LENGTH .NOM "14 ,TRENCH DRAIN  
 TOP = 265.40  
 A)( 262.50 = PVC OUT "6 9830
  - 5#  
 LENGTH .NOM "8 ,VDOT DI-3B  
 TOP = 265.42  
 A)( 260.50 = RCP OUT "15 9830
  - #A 9830  
 CONVERT INLET TO MH  
 TOP = 265.72  
 PERF( 161.79 = PVC IN "4.(  
 5A)( 261.79 = PVC IN "6  
 RCP IN "15 = 259.83 )(5  
 RCP OUT "15 = 259.43 )(9797
  - 9903#  
 EXISTINLET  
 TOP = 263.97  
 OD( 260.50 = PVC IN "4)(260.50  
 RCP OUT "15 = 257.48 )(9902



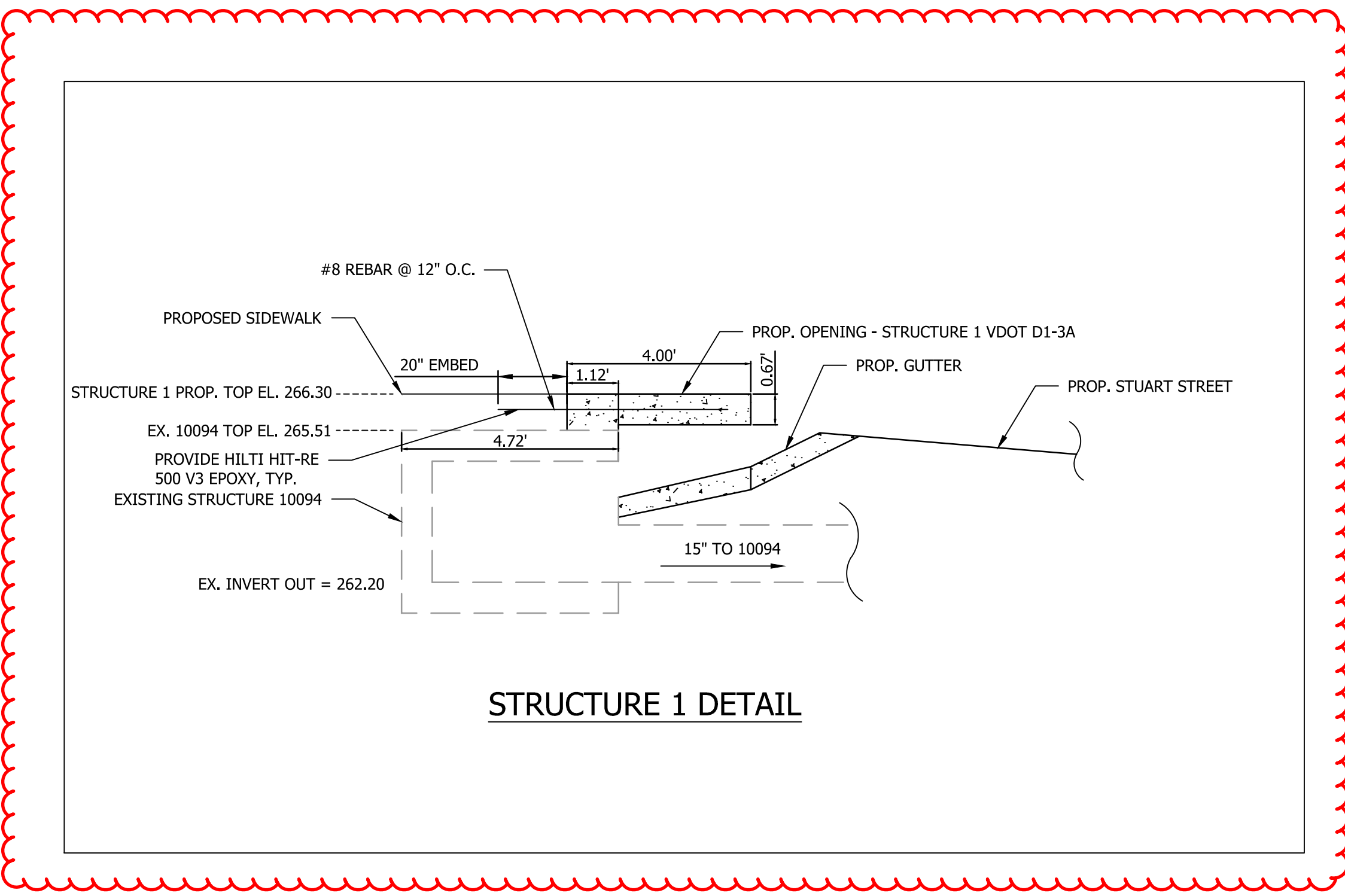
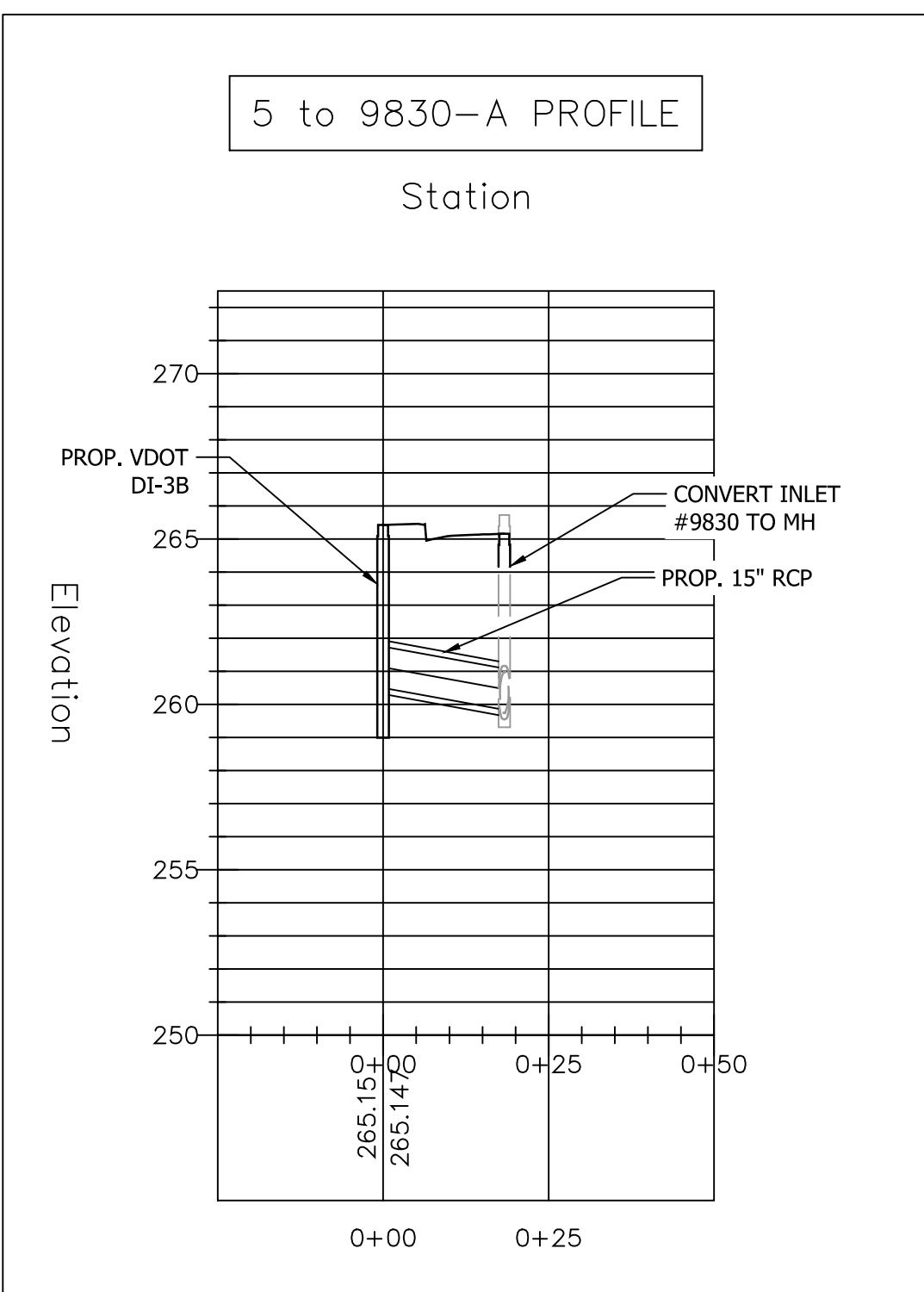
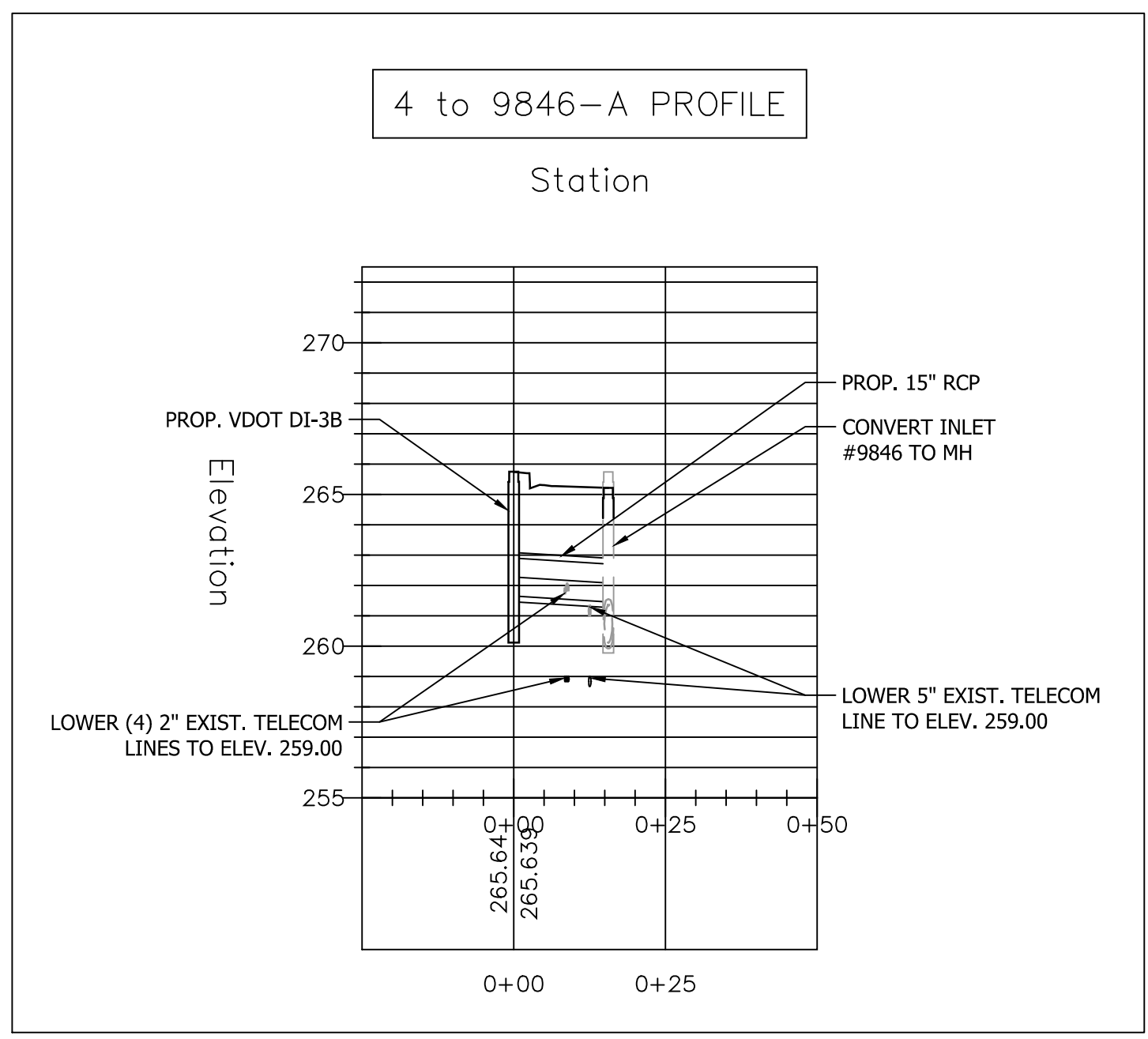
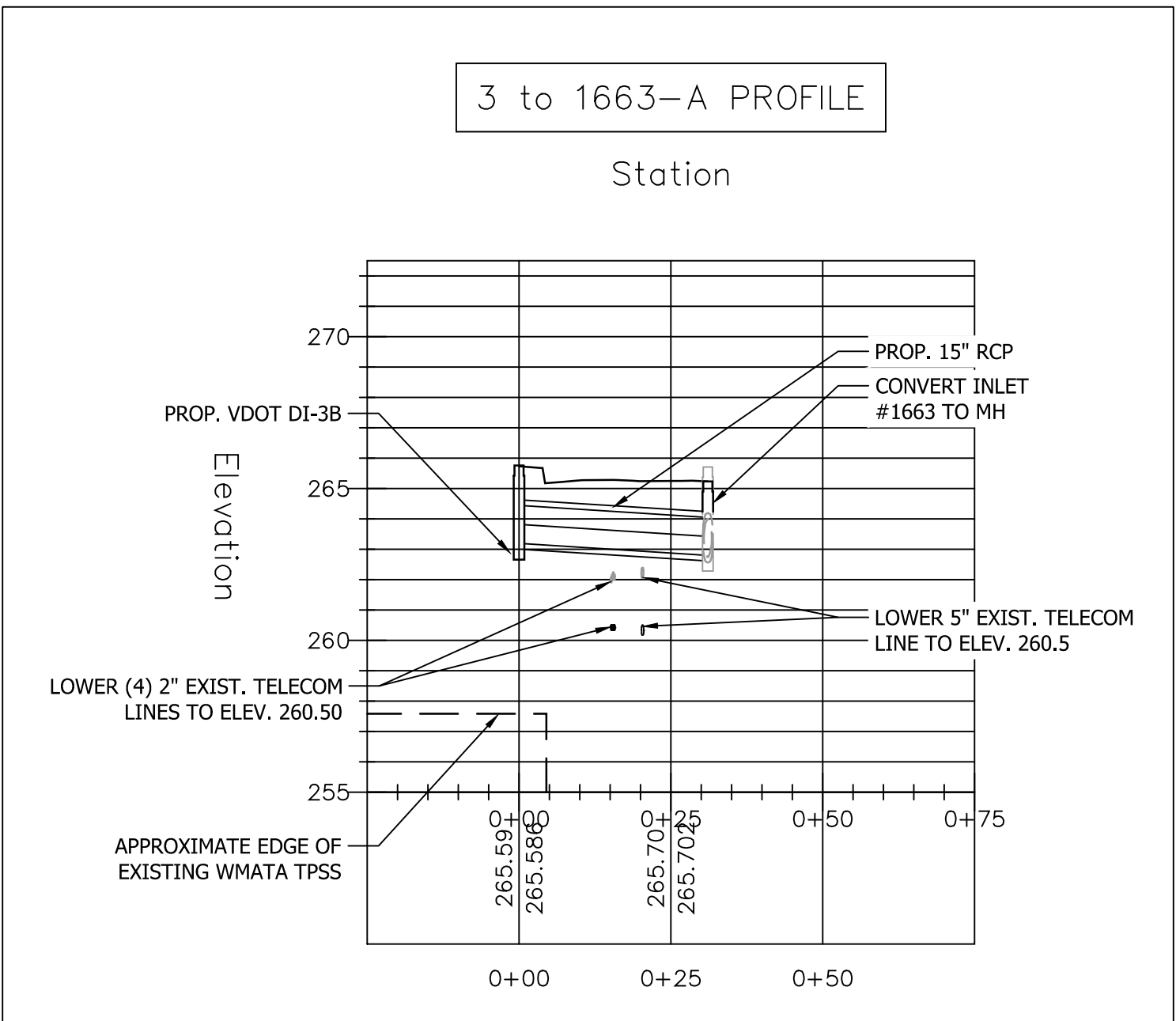
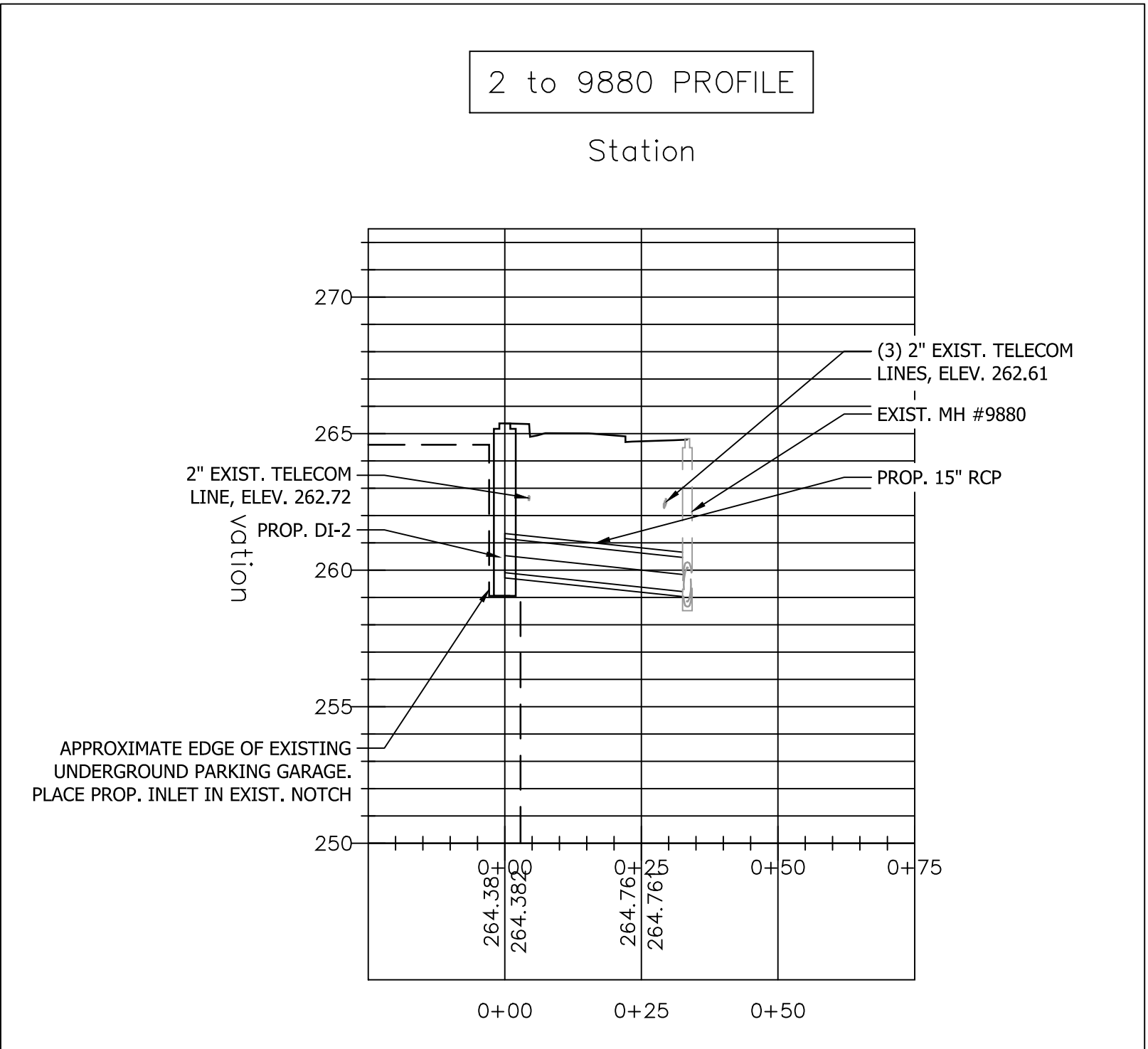
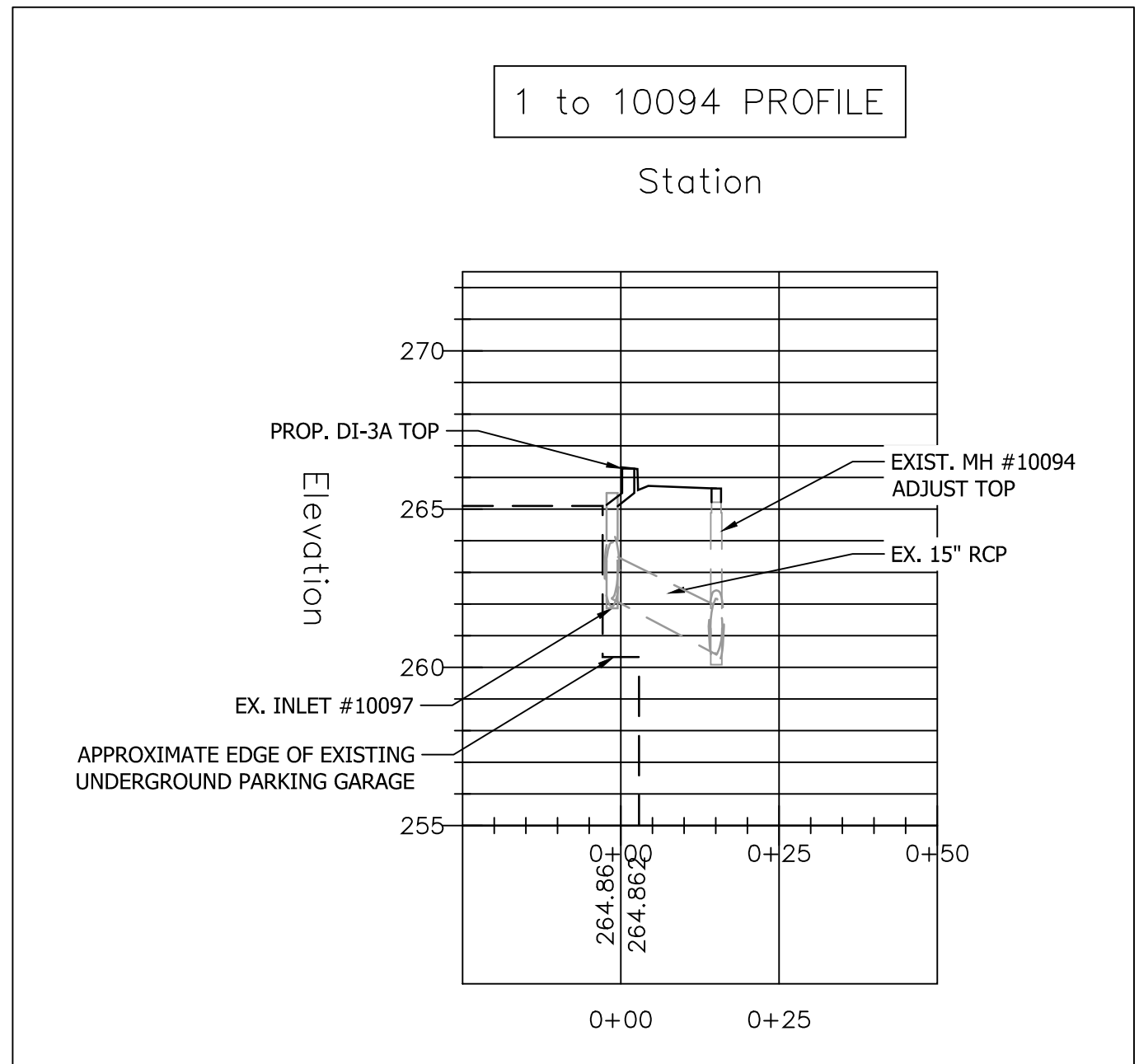
DEPARTMENT OF ENVIRONMENTAL SERVICES  
 Capital Projects Division & Engineering  
 Engineering Bureau  
 Suite 813.21, Clarendon Boulevard  
 VA, Arlington 222.1  
 Phone: 7.3.228.3629  
 Fax: 7.3.228.3666  
 Copyright © 2011 Arlington County Virginia - All Rights Reserved



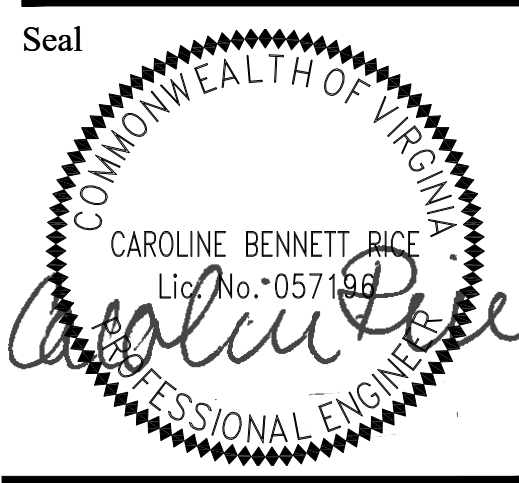
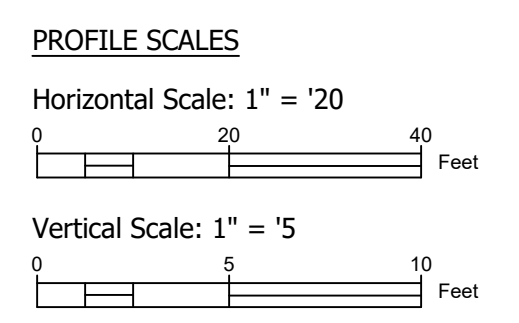
Approvals	Date
TRANSPORTATION DIRECTOR	
TRANSIT BUREAU CHIEF	
CONSTRUCTION COORDINATOR	
STREETS BUREAU CHIEF, SEWER, WATER	
PROJECT MANAGER	
Revisions	Date
1# RFI 4	05-04-20
2# RFI 27	12-10-20
3# Stuart St Redesign	05-28-21

Project Name and Location  
**Drainage Plan**  
 MU Station - Ballston  
 MU Multimodal Improvements - Ballston

Designed RICE.C  
 Drawn RICE.C  
 Checked ROBERTS.C  
 Miss Utility Transmittal #: #####  
 Filename Drainage Plan.dwg\_17\_647881  
 Path Arlington Ballston MU Drawings\Stuart St Redesign Sheets  
 Plotted May 27, 2021  
 Plotted by p0029986  
 Scale 1" = 25'



**NOTE**  
FOR CONSTRUCTION PHASING  
SEE SHEET 26



Approvals	Date
TRANSPORTATION DIRECTOR	
TRANSIT BUREAU CHIEF	
QUALITY CONTROL ENGINEER	
STREETS BUREAU CHIEF, SEWER/WATER	
CONSTRUCTION MANAGER SUPERVISOR	
PROGRAM MANAGER	

Revisions	Date
▲ Stuart St Redesign	05-28-21

Project Name and Location  
**Detail & Drainage Profiles**  
MU Station - Ballston  
MU Multimodal Improvements - Ballston

:Designed RICE.C  
:Drawn RICE.C  
:Checked ROBERTS.C  
Miss Utility Transmittal #: #####

:Filename Drainage Plan.dwg\_17\_647881  
:Path Arlington Ballston MU Drawings\Stuart St Redesign Sheets  
:Plotted May 28, 2021  
:Plotted by p0029986  
:Scale 1" = 25'

## Cost Breakdown For Installation of Streetlight Junction Box

### Labor & Equipment Costs

#### Labor

Classification	Days	Hours (ST)	Hours (OT)	Rate (hr)	OT Rate (hr)	Total
Foreman	1	5		\$ 43.70		\$ 218.50
Laborer	1	5		\$ 25.30		\$ 126.50
Laborer	1	5		\$ 24.12		\$ 120.60
Laborer	1	5		\$ 24.12		\$ 120.60
Laborer	1	5		\$ 24.15		\$ 120.75
Total						\$ 706.95

#### Equipment

Equipment	Days	Hours (Active)	Hours (Stby)	Rate (Active)	Rate (Stby)	Total
Backhoe	1	3	0	\$ 35.76		\$ 107.28
Pick up Truck, Silverado 1500	1	5	0	\$ 28.26		\$ 141.30
Skid Steer, John Deere 317	1	5	0	\$ 29.63		\$ 148.15
Total						\$ 396.73

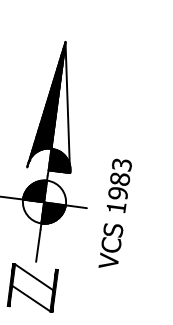
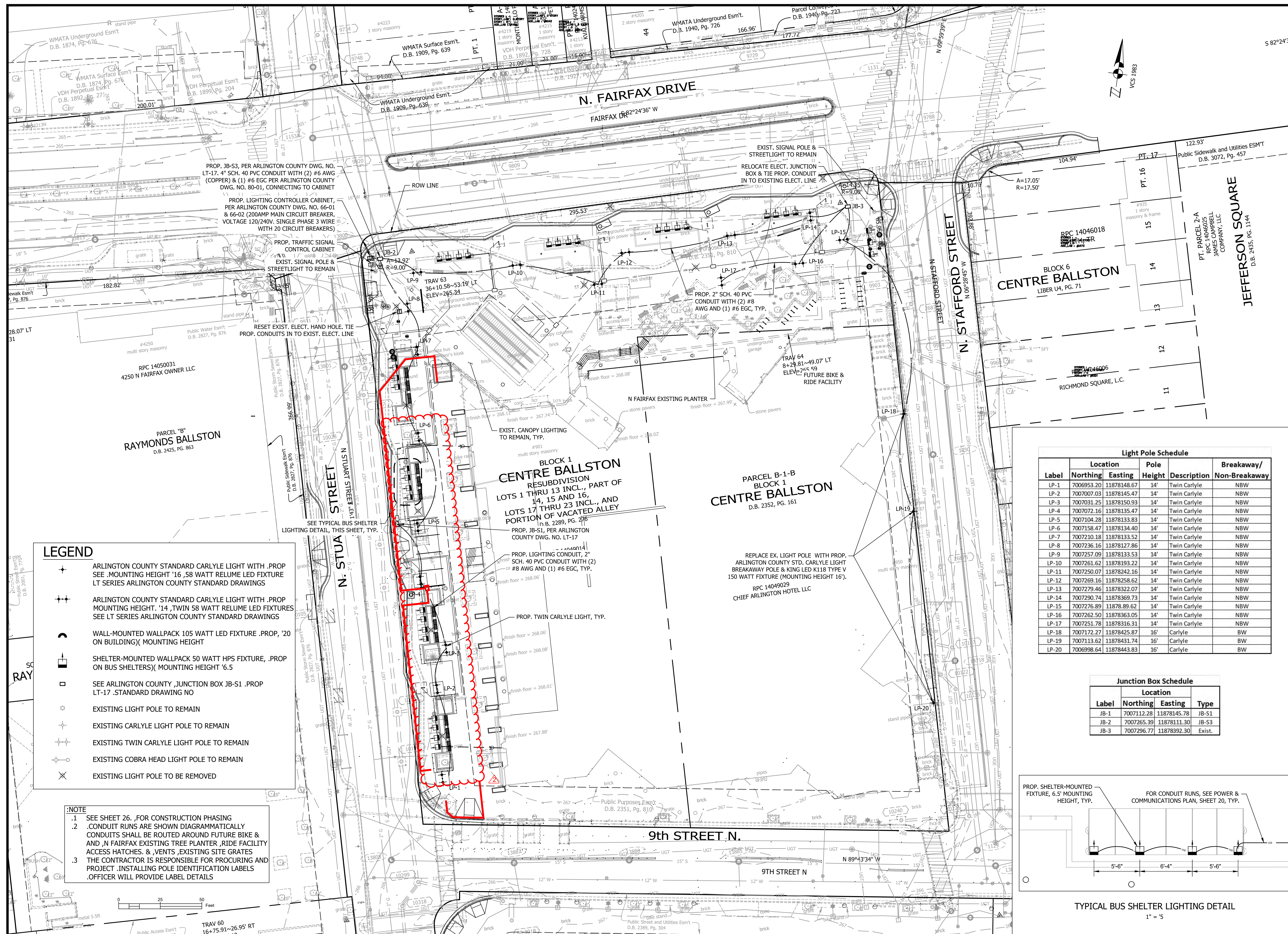
#### Material

Material	Supplier	Quantity	Unit	Unit Price	Unit Price + Tax	Total
Junction Box		1	LS	\$ 866.58	\$ 918.57	\$ 918.57
Total						\$ 918.57

#### Subcontractor

Work	Sub Contractor	Day	Hours	Rate	Lump Sum	Total
						\$ -
						\$ -
					Allowance (10%)	\$ -
Total						\$ -

<b>Base Cost (Labor + Equipment + Material)</b>	<b>\$ 2,022.00</b>
<b>Base Cost Overhead and Profit (15%)</b>	<b>\$ 303.30</b>
<b>Subcontractor Cost Inc Overhead (10%)</b>	<b>\$ -</b>
<b>Total</b>	<b>\$ 2,326.00</b>

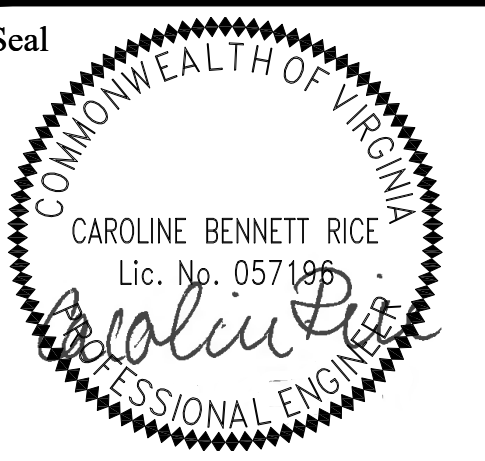


S 82°24'36"



DEPARTMENT OF ENVIRONMENTAL SERVICES

Capital Projects Division & Engineering  
 Engineering Bureau  
 Suite 813.21, Clarendon Boulevard  
 VA Arlington 22211  
 Phone: 7.3.228.3629  
 Fax: 7.3.228.3666



Approvals \_\_\_\_\_ Date \_\_\_\_\_  
 TRANSPORTATION DIRECTOR \_\_\_\_\_  
 TRANSIT BUREAU CHIEF \_\_\_\_\_  
 QUALITY CONTROL ENGINEER \_\_\_\_\_  
 STREETS BUREAU CHIEF, SEWER/WATER \_\_\_\_\_  
 CONSTRUCTION MANAGER SUPERVISOR \_\_\_\_\_

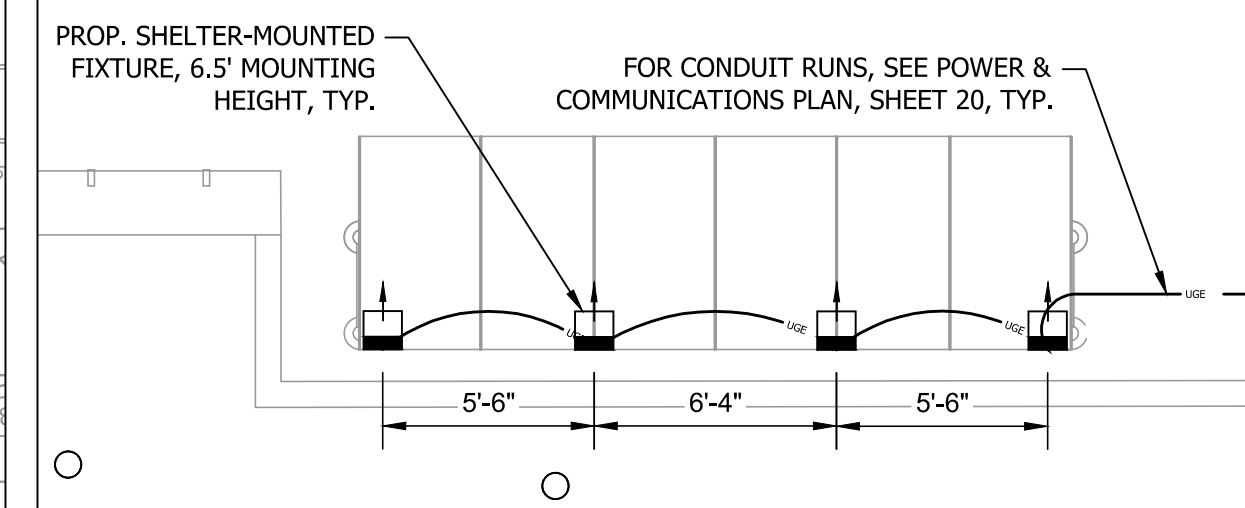
Revisions \_\_\_\_\_ Date \_\_\_\_\_  
 Stuart St Redesign 05-28-21  
 Foundation Revs. 07-16-21

Light Pole Schedule

Label	Location	Pole	Breakaway/Non-Breakaway
LP-1	7006953.20 11878148.67	14'	Twin Carlyle NBW
LP-2	7007007.03 11878145.47	14'	Twin Carlyle NBW
LP-3	7007031.25 11878150.93	14'	Twin Carlyle NBW
LP-4	7007072.16 11878135.47	14'	Twin Carlyle NBW
LP-5	7007104.28 11878133.83	14'	Twin Carlyle NBW
LP-6	7007158.47 11878134.40	14'	Twin Carlyle NBW
LP-7	7007210.18 11878133.52	14'	Twin Carlyle NBW
LP-8	7007236.16 11878127.86	14'	Twin Carlyle NBW
LP-9	7007257.09 11878133.53	14'	Twin Carlyle NBW
LP-10	7007261.62 11878193.22	14'	Twin Carlyle NBW
LP-11	7007250.07 11878242.16	14'	Twin Carlyle NBW
LP-12	7007269.16 11878258.62	14'	Twin Carlyle NBW
LP-13	7007279.46 11878322.07	14'	Twin Carlyle NBW
LP-14	7007290.74 11878369.73	14'	Twin Carlyle NBW
LP-15	7007276.89 11878.89.62	14'	Twin Carlyle NBW
LP-16	7007262.50 11878363.05	14'	Twin Carlyle NBW
LP-17	7007251.78 11878316.31	14'	Twin Carlyle NBW
LP-18	7007172.27 11878425.87	16'	Carlyle BW
LP-19	7007113.62 11878431.74	16'	Carlyle BW
LP-20	7006998.64 11878443.83	16'	Carlyle BW

Junction Box Schedule

Label	Location	Type
JB-1	7007112.28 11878145.78	JB-S1
JB-2	7007265.39 11878111.30	JB-S3
JB-3	7007296.77 11878392.30	Exist.



TYPICAL BUS SHELTER LIGHTING DETAIL  
1" = 5'

LEGEND

- ⊕ ARLINGTON COUNTY STANDARD CARLYLE LIGHT WITH .PROP SEE .MOUNTING HEIGHT '16.58 WATT RELUME LED FIXTURE LT SERIES ARLINGTON COUNTY STANDARD DRAWINGS
- ⊕ ARLINGTON COUNTY STANDARD CARLYLE LIGHT WITH .PROP MOUNTING HEIGHT. '14. TWIN 58 WATT RELUME LED FIXTURES SEE LT SERIES ARLINGTON COUNTY STANDARD DRAWINGS
- ⊕ WALL-MOUNTED WALLPACK 105 WATT LED FIXTURE .PROP. '20 ON BUILDING (MOUNTING HEIGHT)
- ⊕ SHELTER-MOUNTED WALLPACK 50 WATT HPS FIXTURE, .PROP ON BUS SHELTERS (MOUNTING HEIGHT '6.5)
- ⊕ SEE ARLINGTON COUNTY .JUNCTION BOX JB-S1 .PROP LT-17 .STANDARD DRAWING NO
- ⊕ EXISTING LIGHT POLE TO REMAIN
- ⊕ EXISTING CARLYLE LIGHT POLE TO REMAIN
- ⊕ EXISTING TWIN CARLYLE LIGHT POLE TO REMAIN
- ⊕ EXISTING COBRA HEAD LIGHT POLE TO REMAIN
- ⊕ EXISTING LIGHT POLE TO BE REMOVED

NOTE

1. SEE SHEET 26. FOR CONSTRUCTION PHASING
2. CONDUIT RUNS ARE SHOWN DIAGRAMMATICALLY CONDUITS SHALL BE ROUTED AROUND FUTURE BIKE & AND, N FAIRFAX EXISTING TREE PLANTER, RIDE FACILITY ACCESS HATCHES. & VENTS, EXISTING SITE GRATES THE CONTRACTOR IS RESPONSIBLE FOR PROCURING AND PROJECT. INSTALLING POLE IDENTIFICATION LABELS .OFFICER WILL PROVIDE LABEL DETAILS

Project Name and Location  
**Lighting Plan**  
 MU Station - Ballston  
 MU Multimodal Improvements - Ballston

Designed RICE.C  
 Drawn RICE.C  
 Checked ROBERTS.C  
 Miss Utility Transmittal #: ####  
 Filename Lighting Plan.dwg\_32\_647881  
 Path Arlingon Ballston MUDrawings\Stuart St Redesign Sheets  
 Plotted July 21, 2021  
 Plotted by p0029986  
 Scale 1" = 25'

<b>Cost Breakdown For Installation of Bus Shelter Junction Box</b>
--

<b>Labor &amp; Equipment Costs</b>
------------------------------------

<b>Labor</b>						
--------------	--	--	--	--	--	--

Classification	Days	Hours (ST)	Hours (OT)	Rate (hr)	OT Rate (hr)	Total
Foreman	1	5		\$ 43.70		\$ 218.50
Laborer	1	5		\$ 25.30		\$ 126.50
Laborer	1	5		\$ 24.12		\$ 120.60
Laborer	1	5		\$ 24.12		\$ 120.60
Laborer	1	5		\$ 24.15		\$ 120.75
Total						<b>\$ 706.95</b>

<b>Equipment</b>						
------------------	--	--	--	--	--	--

Equipment	Days	Hours (Active)	Hours (Stby)	Rate (Active)	Rate (Stby)	Total
Backhoe	1	3	0	\$ 35.76		\$ 107.28
Pick up Truck, Silverado 1500	1	5	0	\$ 28.26		\$ 141.30
Skid Steer, John Deere 317	1	5	0	\$ 29.63		\$ 148.15
Total						<b>\$ 396.73</b>

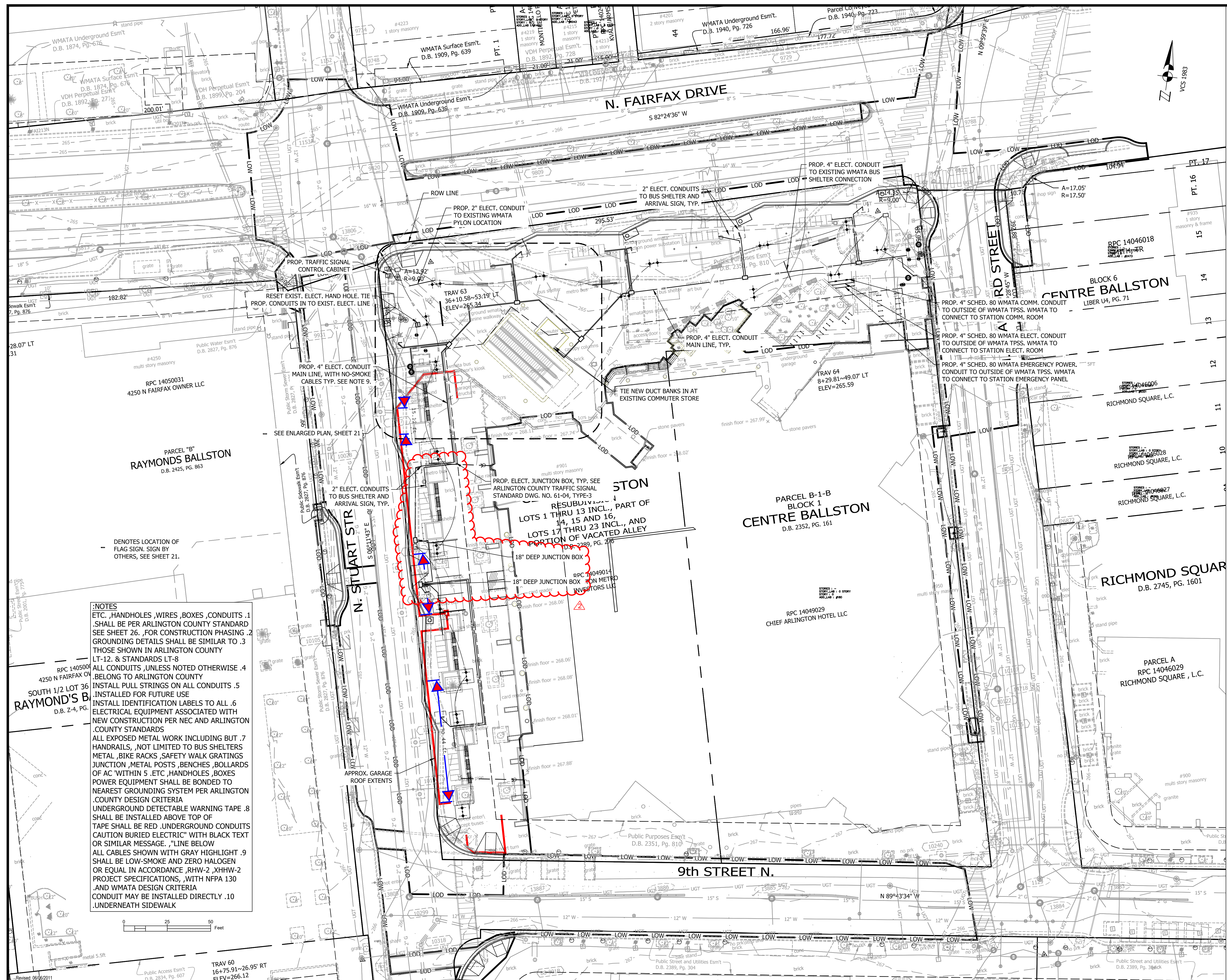
<b>Material</b>						
-----------------	--	--	--	--	--	--

Material	Supplier	Quantity	Unit	Unit Price	Unit Price + Tax	Total
Junction Box		1	LS	\$ 866.58	\$ 918.57	\$ 918.57
Total						<b>\$ 918.57</b>

<b>Subcontractor</b>						
----------------------	--	--	--	--	--	--

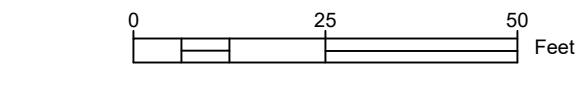
Work	Sub Contractor	Day	Hours	Rate	Lump Sum	Total
						\$ -
						\$ -
					<i>Allowance (10%)</i>	\$ -
Total						<b>\$ -</b>

<b>Base Cost (Labor + Equipment + Material)</b>	<b>\$ 2,022.00</b>
<b>Base Cost Overhead and Profit (15%)</b>	<b>\$ 303.30</b>
<b>Subcontractor Cost Inc Overhead (10%)</b>	<b>\$ -</b>
<b>Total</b>	<b>\$ 2,326.00</b>



**NOTES**

- ETC., HANDHOLES, WIRES, BOXES, CONDUITS, SHALL BE PER ARLINGTON COUNTY STANDARD SEE SHEET 26. FOR CONSTRUCTION PHASING, GROUNDING DETAILS SHALL BE SIMILAR TO THOSE SHOWN IN ARLINGTON COUNTY LT-12, & STANDARDS LT-8.
- ALL CONDUITS, UNLESS NOTED OTHERWISE, BELONG TO ARLINGTON COUNTY.
- INSTALL PULL STRINGS ON ALL CONDUITS.
- INSTALLED FOR FUTURE USE.
- INSTALL IDENTIFICATION LABELS TO ALL ELECTRICAL EQUIPMENT ASSOCIATED WITH NEW CONSTRUCTION PER NEC AND ARLINGTON COUNTY STANDARDS.
- ALL EXPOSED METAL WORK INCLUDING BUT NOT LIMITED TO BUS SHELTERS, METAL BIKE RACKS, SAFETY WALK GRATINGS, JUNCTION METAL POSTS, BENCHES, BOLLARDS OF AC WITHIN 5' ETC., HANDHOLES, BOXES POWER EQUIPMENT SHALL BE BONDED TO NEAREST GROUNDING SYSTEM PER ARLINGTON COUNTY DESIGN CRITERIA.
- UNDERGROUND DETECTABLE WARNING TAPE SHALL BE INSTALLED ABOVE TOP OF TAPE SHALL BE RED. UNDERGROUND CONDUITS CAUTION BURIED ELECTRIC WITH BLACK TEXT OR SIMILAR MESSAGE. LINE BELOW ALL CABLES SHOWN WITH GRAY HIGHLIGHT.
- SHALL BE LOW-SMOKE AND ZERO HALOGEN OR EQUAL IN ACCORDANCE WITH NFPA 130 AND WMATA DESIGN CRITERIA.
- CONDUIT MAY BE INSTALLED DIRECTLY UNDERNEATH SIDEWALK.

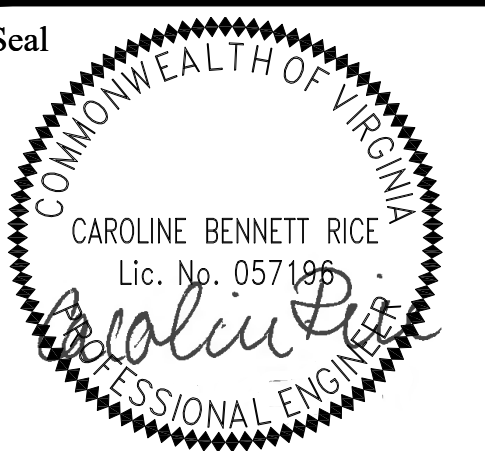


TRAV 60  
16+75.91~26.95' RT  
ELEV=266.12



DEPARTMENT OF ENVIRONMENTAL SERVICES

Capital Projects Division & Engineering  
Engineering Bureau  
Suite 813, 2100 Clarendon Boulevard  
VA Arlington 22201  
Phone: 703.228.3629  
Fax: 703.228.3606



Approvals	Date
TRANSPORTATION DIRECTOR	
TRANSIT BUREAU CHIEF	
CONSTRUCTION COORDINATOR	
STREETS BUREAU CHIEF, SEWER, WATER	
PROJECT MANAGER	

Revisions	Date
▲ Stuart St Redesign	05-28-21
▲ Foundation Revs.	07-16-21

Project Name and Location  
**Communications & Power**  
Plan  
MU Station - Ballston  
MU Multimodal Improvements - Ballston

Designed: FLYNN, K.  
Drawn: FLYNN, K.  
Checked: ROBERTS, C.  
Miss Utility Transmittal #: #####  
Filename: Comm Plan.dwg & 647881\_20\_Power  
Path: Arlington Ballston MU Drawings\Stuart St Redesign Sheets  
Plotted: July 21, 2021  
Plotted by: p0029986  
Scale: 1" = 25'

## Cost Breakdown For Relocation of Fire Hydrant

### Labor & Equipment Costs

#### Labor

Classification	Days	Hours (ST)	Hours (OT)	Rate (hr)	OT Rate (hr)	Total
Foreman	3.5	8		\$ 43.70		\$ 1,223.60
Laborer	3.5	8		\$ 25.30		\$ 708.40
Laborer	3.5	8		\$ 24.12		\$ 675.36
Laborer	3.5	8		\$ 24.12		\$ 675.36
Laborer	3.5	8		\$ 24.15		\$ 676.20
Total						\$ 3,958.92

#### Equipment

Equipment	Days	Hours (Active)	Hours (Stby)	Rate (Active)	Rate (Stby)	Total
Backhoe	3.5	8	0	\$ 35.76		\$ 1,001.28
Pick up Truck, Silverado 1500	3.5	8	0	\$ 28.26		\$ 791.28
Skid Steer, John Deere 317	3.5	8	0	\$ 29.63		\$ 829.64
Concrete Saw	3.5	8	0	\$ 23.69		\$ 663.32
Sweeper	3.5	8	0	\$ 27.16		\$ 760.48
Dump Truck	2	8	0	\$ 97.40		\$ 1,558.40
Total						\$ 5,604.40

#### Material

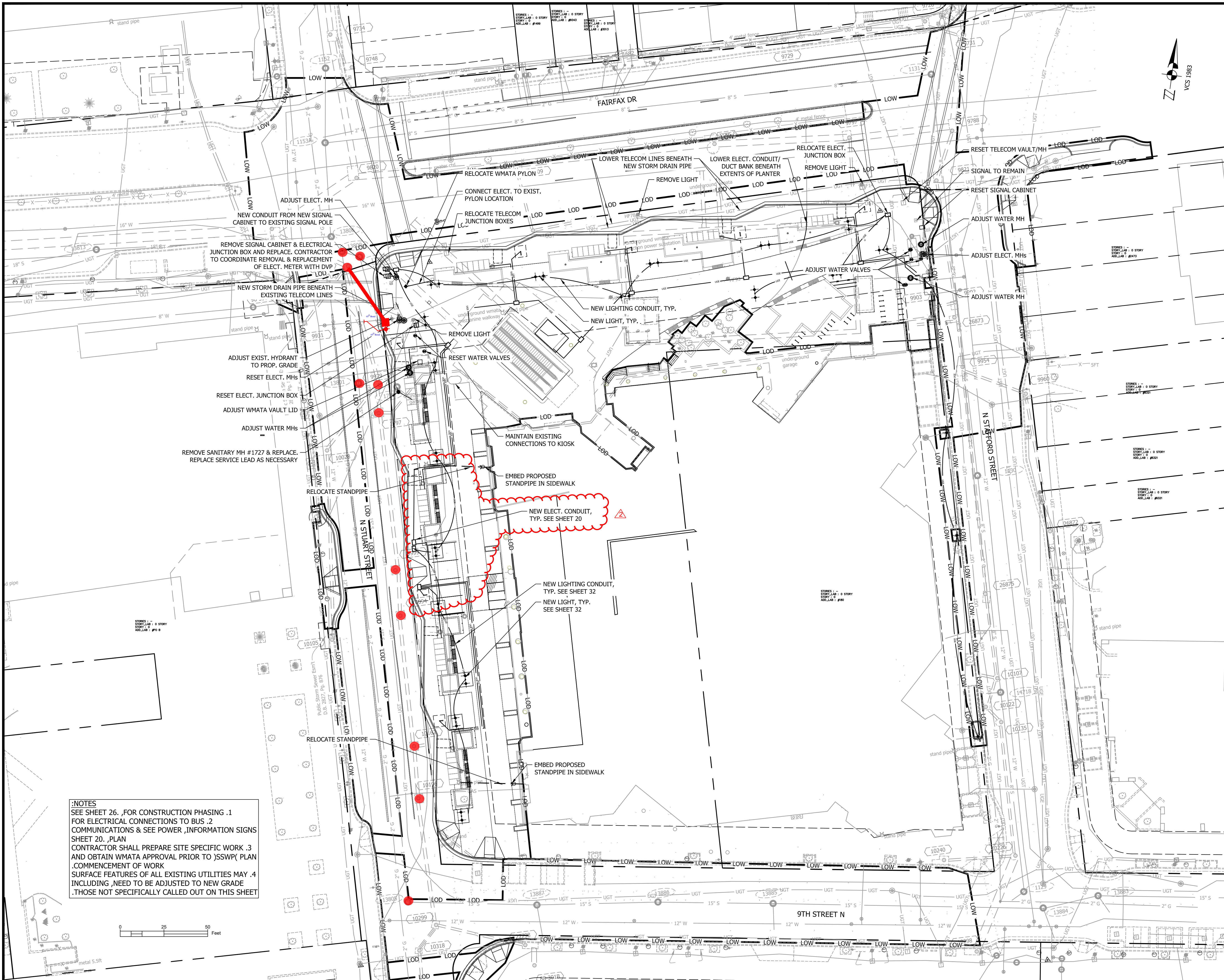
Material	Supplier	Quantity	Unit	Unit Price	Unit Price + Tax	Total
Waterline Materials	Ferguson	1	LS	\$ 2,002.05	\$ 2,122.17	\$ 2,122.17
Dump Fee		1	EA	\$ 190.00	\$ 201.40	\$ 201.40
Forms, curing compounds, form release		1	LS	\$ 250.00	\$ 265.00	\$ 265.00
Mix Bagged Concrete		1	LS	\$ 100.00	\$ 106.00	\$ 306.00
Total						\$ 2,894.57

#### Subcontractor

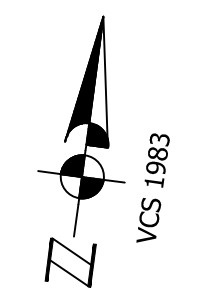
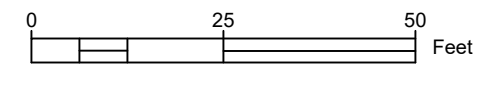
Work	Sub Contractor	Day	Hours	Rate	Lump Sum	Total
Stakes and Asbuilts	Liggie Surveys	1			\$ 750.00	\$ 750.00
Waterpumping	Sunbelt Rentals	1			\$ 475.00	\$ 475.00
Concrete and Compaction Testing	Dulles Geotechnical	1			\$ 350.00	\$ 350.00
					Allowance (10%)	\$ 157.50
Total						\$ 1,732.50

<b>Base Cost (Labor + Equipment + Material)</b>	<b>\$ 12,458.00</b>
<b>Base Cost Overhead and Profit (15%)</b>	<b>\$ 1,868.70</b>
<b>Subcontractor Cost Inc Overhead (10%)</b>	<b>\$ 1,732.50</b>
<b>Total</b>	<b>\$ 16,060.00</b>



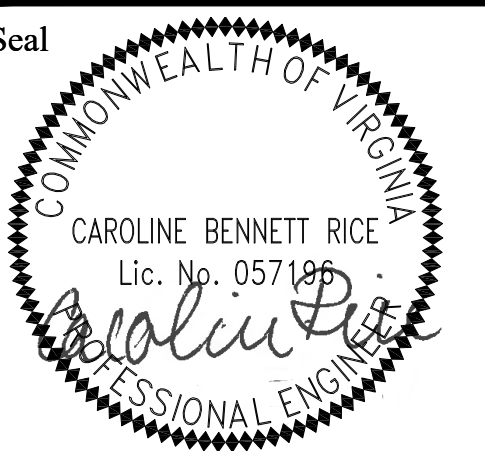


**NOTES**  
 SEE SHEET 26. FOR CONSTRUCTION PHASING .1  
 FOR ELECTRICAL CONNECTIONS TO BUS .2  
 COMMUNICATIONS & SEE POWER, INFORMATION SIGNS  
 SHEET 20. PLAN  
 CONTRACTOR SHALL PREPARE SITE SPECIFIC WORK .3  
 AND OBTAIN WMATA APPROVAL PRIOR TO JSSWP PLAN  
 COMMENCEMENT OF WORK  
 SURFACE FEATURES OF ALL EXISTING UTILITIES MAY .4  
 INCLUDING, NEED TO BE ADJUSTED TO NEW GRADE  
 THOSE NOT SPECIFICALLY CALLED OUT ON THIS SHEET



DEPARTMENT OF ENVIRONMENTAL SERVICES

Capital Projects Division & Engineering  
 Engineering Bureau  
 Suite 813.21, Clarendon Boulevard  
 VA Arlington 222.1  
 Phone: 7.3.228.3629  
 Fax: 7.3.228.36.6



Approvals \_\_\_\_\_ Date \_\_\_\_\_

TRANSPORTATION DIRECTOR \_\_\_\_\_

TRANSIT BUREAU CHIEF \_\_\_\_\_

CONSTRUCTION COORDINATOR \_\_\_\_\_

STREETS BUREAU CHIEF, SEWER, WATER \_\_\_\_\_

PROJECT MANAGER \_\_\_\_\_

Revisions \_\_\_\_\_ Date \_\_\_\_\_

▲ Stuart St Redesign 05-28-21

▲ Foundation Revs. 07-16-21

Utility Relocation Plan

MU Station - Ballston  
 MU Multimodal Improvements - Ballston

Designed FLYNN K  
 Drawn FLYNN K  
 Checked ROBERTS C  
 Miss Utility Transmittal #: #####  
 Filename Utility Plan.dwg\_19\_647881  
 Path Arlington Ballston MU Drawings\Stuart St Redesign Sheets  
 Plotted July 21, 2021  
 Plotted by p0029986  
 Scale 1" = 25'



Ardent Job: 193-20

September 21, 2021

Mr. Dara Soum, P.E,  
 Senior Transit Planner/Project Management Coordinator  
 Arlington, VA 22201  
 Tel. (office): 703-228-3202

**Re: Contract No. 20-110-9-6**  
**Ballston MU Metro Station Area Improvements**  
**Arlington County**

Dear Mr. Soum,

Ardent Company hereby submits another change order request for installation of 2 new drainage structures and storm drain pipe.

The addition of these structures and pipes were warranted to address the water ponding issue at CR-1 corner. Per the new grading plan, the tie-in location of new and old curb and gutter has lowest elevation. Per the RFI response #43, A grate inlet was proposed at that location. The water will then be conveyed by new 12" RCP to the new manhole that will be installed by intercepting the existing 24" RCP.

Item#	Description	Qty	Unit	Unit Price	Total
CO7-1	Installation of Grate Inlet, MH and RCP Installation	1	LS	\$17,766.00	\$17,766.00
<b>Total Net Change to Contract</b>					<b>\$ 17,766.00</b>

Should you have any questions, please do not hesitate to contact me.

Sincerely,  
**Ardent Company, LLC**

A handwritten signature in black ink that reads "Arash Hooshangi".

Arash Hooshangi, P.E.  
 Managing Director

## Cost Breakdown For Grate Inlet, MH and RCP Installation

### Labor & Equipment Costs

#### Labor

Classification	Days	Hours (ST)	Hours (OT)	Rate (hr)	OT Rate (hr)	Total
Foreman	4	8		\$ 43.70		\$ 1,398.40
Laborer	4	8		\$ 25.30		\$ 809.60
Laborer	4	8		\$ 24.12		\$ 771.84
Laborer	4	8		\$ 24.12		\$ 771.84
Laborer	4	8		\$ 24.15		\$ 772.80
Total						\$ 4,524.48

#### Equipment

Equipment	Days	Hours (Active)	Hours (Stby)	Rate (Active)	Rate (Stby)	Total
Backhoe	4	8	0	\$ 35.76		\$ 1,144.32
Pick up Truck, Silverado 1500	4	8	0	\$ 28.26		\$ 904.32
Skid Steer, John Deere 317	4	8	0	\$ 29.63		\$ 948.16
Concrete Saw	1	8	0	\$ 23.69		\$ 189.52
Total						\$ 3,186.32

#### Material

Material	Supplier	Quantity	Unit	Unit Price	Unit Price + Tax	Total
Drainage Structures and Pipes	CP&P	1	LS	\$ 4,192.60	\$ 4,444.16	\$ 4,444.16
Bricks and Mortar		1	LS	\$ 100.00	\$ 100.00	\$ 100.00
Dump Fee	DC Materials	5	EA	\$ 210.00	\$ 222.60	\$ 1,113.00
57 Stone	CSS	17.68	TON	\$ 25.50	\$ 27.03	\$ 477.89
25mm Asphalt	National Asphalt	5.33	TON	\$ 55.00	\$ 58.30	\$ 310.74
Total						\$ 6,445.79

#### Subcontractor

Work	Sub Contractor	Day	Hours	Rate	Lump Sum	Total
Trucking		2	9	\$ 75.00		\$ 1,350.00
Allowance (10%)						\$ 135.00
Total						\$ 1,485.00

<b>Base Cost (Labor + Equipment + Material)</b>	<b>\$ 14,157.00</b>
<b>Base Cost Overhead and Profit (15%)</b>	<b>\$ 2,123.55</b>
<b>Subcontractor Cost Inc Overhead (10%)</b>	<b>\$ 1,485.00</b>
<b>Total</b>	<b>\$ 17,766.00</b>



We are committed to making Concrete Pipe & Precast the preferred supplier for our customers by delivering outstanding value, continuous innovation, and an exceptional customer experience by consistently fulfilling our promise: *"Not Just Concrete, Concrete Solutions."*

DATE: 09/07/21 COUNTY: \_\_\_\_\_ BID Date: \_\_\_\_\_

PROJECT: Ballston - MU Multimodal additions PROJECT #: \_\_\_\_\_

BIDDER: ARDENT COMPANY, LLC D.O.P: 9/1/2021

Quote: CQ-196903

We are pleased to quote the following prices for the above referenced project:

Quantity	UoM	Str #	Description	Diameter	Price Per Unit	Ext. Price
1.00	EACH		DELIVERY - SHORT LOAD		\$400.00	\$400.00
24.00	LF		12" SO CL-3 8' RCP w/gasket	12.00	\$23.40	\$561.60
<i>All prices are subject to applicable taxes.</i>					<b>Pipe SubTotal:</b>	<b>\$961.60</b>

Pipe is quoted to DOT standards. Joint material for round and elliptical pipe is included in the per foot price, except where noted. Prices are for (ASTM C-76) Reinforced Concrete Pipe "non-tested for leak resistance." If any kind of pressure testing (in plant or in field) is required these prices are null and void. The quotation is for our standard 8'0" joint length and does not include any fittings, cut skews, or shorts unless indicated above. Please contact our sales team for additional cost of these items or tested pipe if required.

#### Optional Pre-Tested Pipe:

When infiltration or exfiltration tests may be required as part of the project requirements, CP&P can Pre-Test each pipe section at the plant for an additional charge. Pre-Testing of each pipe section prior to delivery qualifies that each piece meets the test requirements of ASTM C443. Pre-testing will reduce issues associated with field testing of properly installed pipe. Contact CP&P sales for pricing and availability of Pre-Tested Pipe.

CP&P produces 42" and larger round pipe and 34"x53" and larger elliptical pipe **with and without lift holes** depending on producing facility and generally accepted regional requirements. If you require this size pipe specifically one way or the other, please notify us **at the time of order** to eliminate the need for special production, possible delay in delivery and/or a \$100 per lift hole coring fee. CP&P **does not** produce 36" and smaller round pipe or 32"x49" and smaller elliptical pipe with lift holes. However, for a \$100 per lift hole coring fee, they can be provided in these sizes. These are not stock so please anticipate a delay.

A fee will be assessed for processing and handling (\$250 for hatches; \$150 for sleeves, clean outs, etc...) of customer supplied embeds. For post production casting of customer supplied Thimbles, etc..., there will be a \$1,000 per 'thimble' fee for planting casting.

*For AIS Requirement Compliance Documentation, add 7% of subtotal \$67.31, if applicable.*

Please notify CP&P immediately if any item must comply with any American Iron and Steel (AIS) requirements. CP&P must be notified prior to fabrication and, **in accordance with the Act**, fees may/will be charged as noted above, for the additional requirements and necessary compliance documentation.

Production facilities are ACPA certified. CP&P is not PCI certified.

Prices and quantities are estimated. It is the Contractor's responsibility to confirm that this quote is in compliance with all job plans and specifications, including revisions and current addenda. During the course of construction, situations may occur that prevent the use of precast. Under such circumstances, we will not be obligated or held responsible for furnishing those structures. Should these circumstances cause the altering of the quoted structure size and/or type, we reserve the right to renegotiate prices for such changes.

All modified and special design structures and pipe prices are contingent upon approval of our design and specifications. A \$500 engineering fee (per structure) will be charged for structures requiring a special submittal if cancelled any time during the submittal process.

Prices quoted are for truckload lots to accessible points by our trucks, at or near your jobsite. Contractor responsible to unload all product. CP&P will not supply rigging or lifting/spreader bars. Lifting devices will be credited upon return to CP&P office. Trucks on site longer than an hour before unloading starts will be charged at \$75 per hour wait time fee.

Short loads: Any requested delivery under 20 tons is a "short load." There will be a minimum \$400.00 additional charge for individual "short load" deliveries. If a multi-stop load can be created to avoid multiple short loads then a \$150.00 drop off fee will be charged. The more advance notice we receive the more likely we can create a multi-stop load; however, there is no guarantee that it will always be possible. The product can be picked up at the plant for the price shown on the quote.

Customers providing a hatch/casting for CP&P to embed within a precast piece, is responsible for having it shipped to the correct production facility and ordering any hatches with skirts. Hatches that arrive without skirts will not be accepted or the customer will be charged a \$300 fee per hatch for CP&P to add the skirt.

All returns must be pre-approved and are subject to restocking, repairs, cleaning and freight charges.



We are committed to making Concrete Pipe & Precast the preferred supplier for our customers by delivering outstanding value, continuous innovation, and an exceptional customer experience by consistently fulfilling our promise:  
**"Not Just Concrete, Concrete Solutions."**

DATE: 09/07/21 COUNTY: \_\_\_\_\_ BID Date: \_\_\_\_\_

PROJECT: Ballston - MU Multimodal additions PROJECT #: \_\_\_\_\_

BIDDER: ARDENT COMPANY, LLC D.O.P: 9/1/2021

Quote: CQ-196904

We are pleased to quote the following prices for the above referenced project:

Structure #	Quantity	Description	Height	Size/Dia.	Price	Extended Price
	1	DELIVERY - SHORT LOAD			\$400.00	\$400.00
1	1	Stm MH * price is based on existing pipe size of 24" or smaller	3.99	48	\$992.00	\$992.00
2	1	Sgl. ADA Compliant Inlet	2.2	2.00 x 2.00	\$1,066.00	\$1,066.00
<b>Total Strs: 3</b>			<i>All prices are subject to applicable taxes.</i>		<b>Structure SubTotal:</b>	<b>\$2,458.00</b>

**Storm Structure Notes:** Storm Structures are quoted to DOT or ACI standards. Inlet price does not include frame or grate. Manhole prices do not include frames and covers. Prices do not include flexible connectors unless otherwise noted. All pipe to structure connections are to be "grouted" by contractor. If flexible connectors are required, structures may need to be modified (both diameter and height). Safety landings are included on structures with a height of 12 vertical feet or greater and where the design allows. Color pigmented or stained concrete is not included in our price. Scour Plates, if required, are not included in the structure prices above. Coatings and/or liners are not included unless otherwise noted on the quotation.

**Sanitary Notes:** Sanitary Manholes are quoted to ASTM C-478 and local jurisdiction standards. Precast inverts are not included in the prices of the Sanitary Manholes, unless otherwise noted. Manhole steps (if required), flexible boot connectors and joint sealants are included in the price of the structures. Frames and covers are not included in the structure prices unless specifically noted.

**Stormwater Notes:** Price is for concrete structure only. Prices exclude frames, grates, trash racks, hand rails, guide rails, orifice plates, weir walls, diversion grates, hatches, coatings, ladders, fall protection system and other components involved with structures unless stated on this quote. It will be the contractor's responsibility to make the joints watertight. Structure design is subject to Engineer's approval.

**Extras:**

**Manhole Frame & Cover \$ 279.00 each**

**ADA Compliant Single Frame & Grate \$ 494.00 each**

A fee will be assessed for processing and handling (\$250 for hatches; \$150 for sleeves, clean outs, etc...) of customer supplied embeds. For post production casting of customer supplied Thimbles, etc..., there will be a \$1,000 per 'thimble' fee for planting casting.

Min Hgt to Precast = too shallow to precast as shown on the plans. Contractor's responsibility to validate with the Engineer that the design can change to use the precast structure prior to production release.

*For AIS Requirement Compliance Documentation, add 7% of subtotal \$172.06, if applicable.*

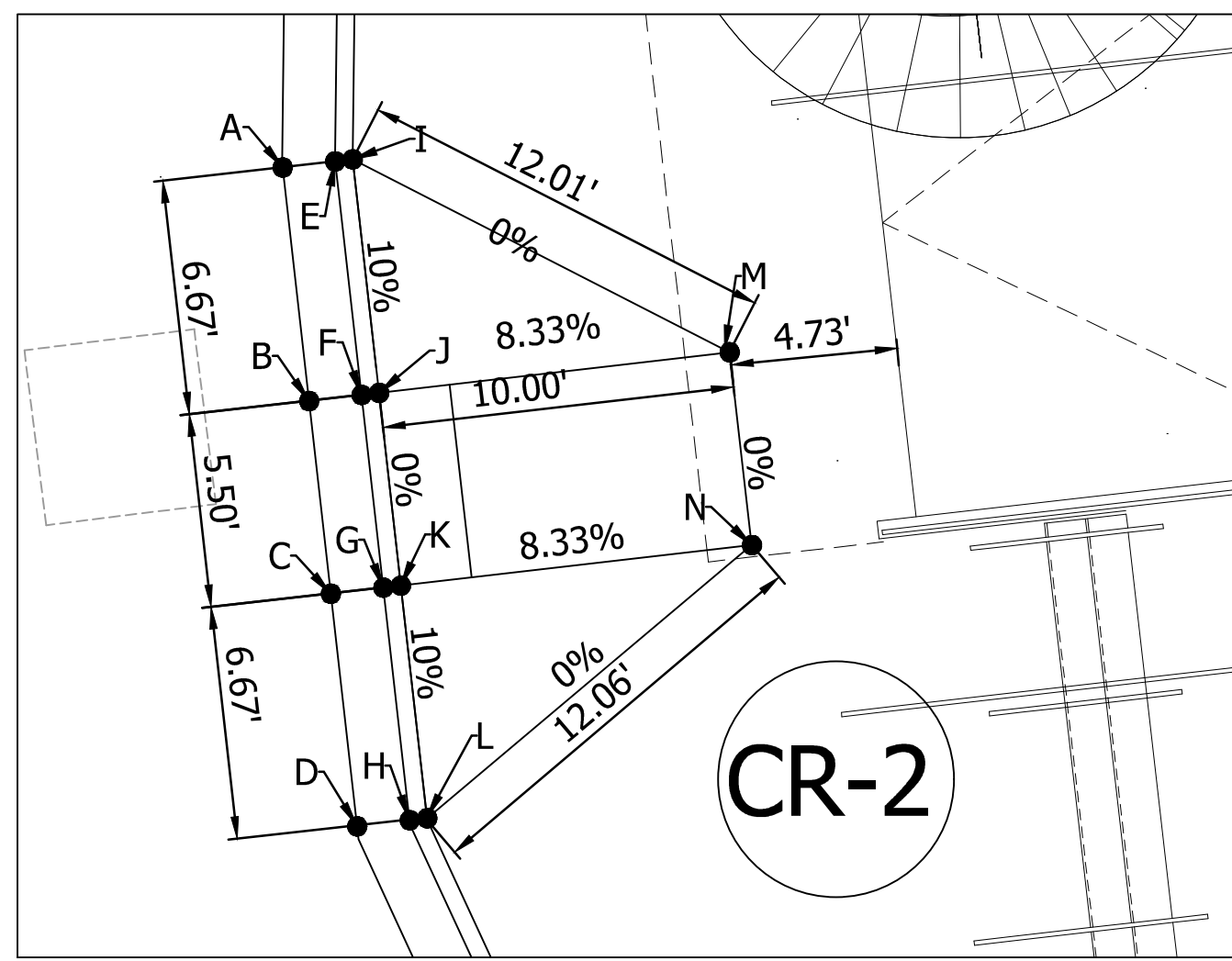
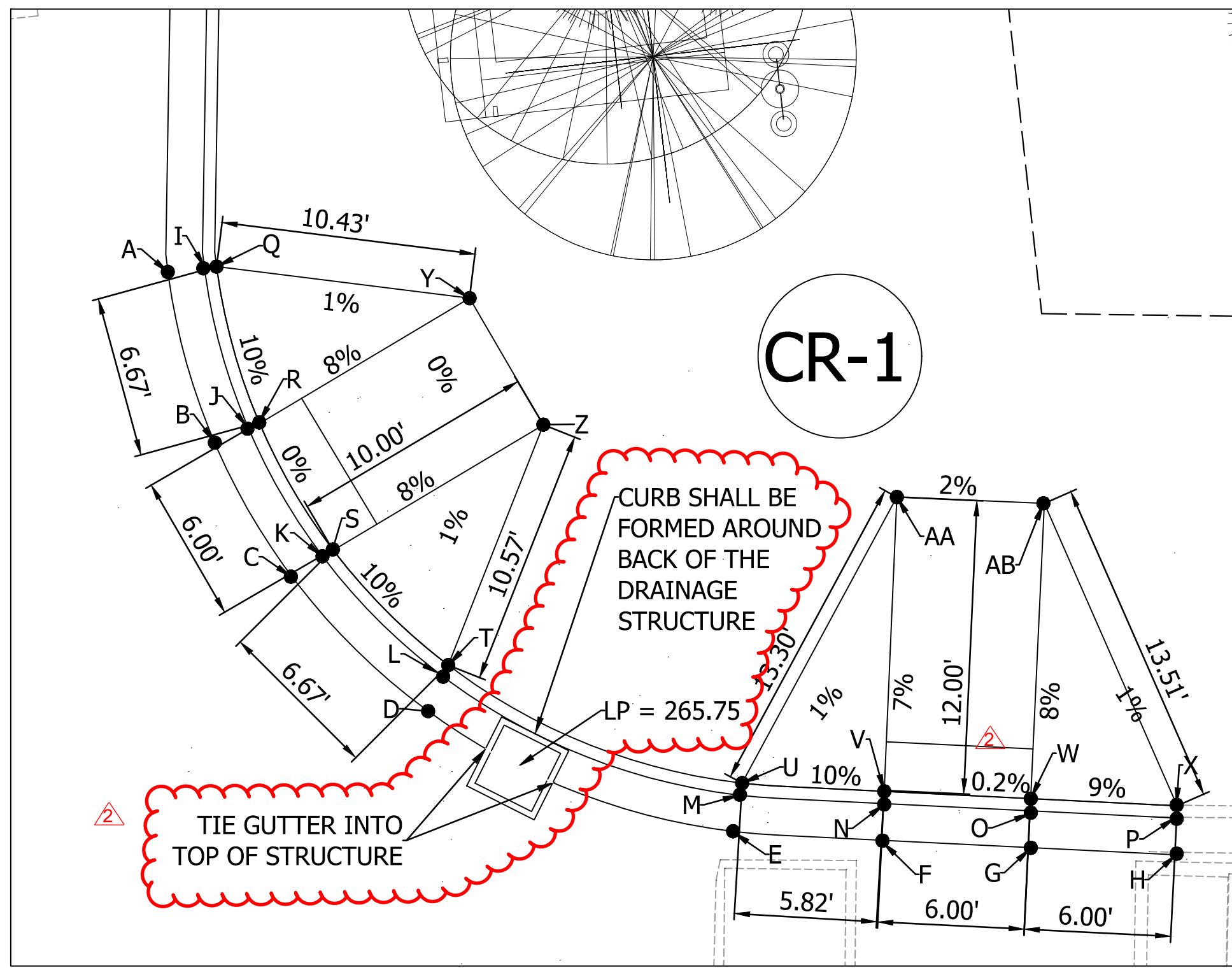
Please notify CP&P immediately if any item must comply with any American Iron and Steel (AIS) requirements. CP&P must be notified prior to fabrication and, **in accordance with the Act**, fees may/will be charged as noted above, for the additional requirements and necessary compliance documentation.

Production facilities are NPCA certified. CP&P is not PCI certified.

Prices and quantities are estimated. It is the Contractor's responsibility to confirm that this quote is in compliance with all job plans and specifications, including revisions and current addenda. During the course of construction, situations may occur that prevent the use of precast. Under such circumstances, we will not be obligated or held responsible for furnishing those structures. Should these circumstances cause the altering of the quoted structure size and/or type, we reserve the right to renegotiate prices for such changes.

All modified and special design structures and pipe prices are contingent upon approval of our design and specifications. A \$500 engineering fee (per structure) will be charged for structures requiring a special submittal if cancelled any time during the submittal process.

Prices quoted are for truckload lots to accessible points by our trucks, at or near your jobsite. Contractor responsible to unload all product. CP&P will not supply rigging or lifting/spreader bars. Lifting devices will be credited upon return to CP&P office. Trucks on site longer than an hour before unloading starts will be charged at \$75 per hour wait time fee.



**CR-1**

POINT	ELEVATION	POINT	ELEVATION	POINT	ELEVATION	POINT	ELEVATION	
1	A	266.45	I	266.37	Q	266.98	Y	267.07
2	B	266.46	J	266.38	R	266.38	Z	267.08
3	C	266.49	K	266.41	S	266.41	AA	266.81
4	D	266.54	L	266.46	T	267.13	AB	266.83
5	E	265.90	M	265.78	U	266.28		
6	F	265.91	N	265.84	V	265.84		
7	G	265.92	O	265.85	W	265.85		
8	H	265.98	P	265.86	X	266.36		

**CR-2**

POINT	ELEVATION	POINT	ELEVATION	
1	A	265.95	I	266.49
2	B	265.92	J	265.85
3	C	265.91	K	265.84
4	D	265.91	L	266.45
5	E	265.83	M	266.68
6	F	265.85	N	266.67
7	G	265.84		
8	H	265.79		

**CR-3**

POINT	ELEVATION	POINT	ELEVATION	
1	A	264.87	I	265.29
2	B	264.87	J	264.79
3	C	264.88	K	264.80
4	D	264.88	L	265.30
5	E	264.79	M	265.22
6	F	264.79	N	265.23
7	G	264.80	O	265.21
8	H	264.80	P	265.22

**CR-4**

POINT	ELEVATION	POINT	ELEVATION	POINT	ELEVATION	POINT	ELEVATION	
1	A	264.93	I	264.85	Q	265.35	Y	265.37
2	B	264.95	J	264.87	R	264.87	Z	265.37
3	C	264.95	K	264.87	S	264.87	AA	265.22
4	D	265.00	L	264.92	T	265.42	AB	265.30
5	E	264.78	M	264.70	U	265.20		
6	F	264.80	N	264.72	V	264.72		
7	G	264.88	O	264.80	W	264.80		
8	H	264.88	P	264.80	X	265.30		

Seal \_\_\_\_\_

Approvals \_\_\_\_\_ Date \_\_\_\_\_

TRANSPORTATION DIRECTOR \_\_\_\_\_

TRANSIST BUREAU CHIEF \_\_\_\_\_

QUALITY CONTROL ENGINEER \_\_\_\_\_

WATER, SEWER, STREETS BUREAU CHIEF \_\_\_\_\_

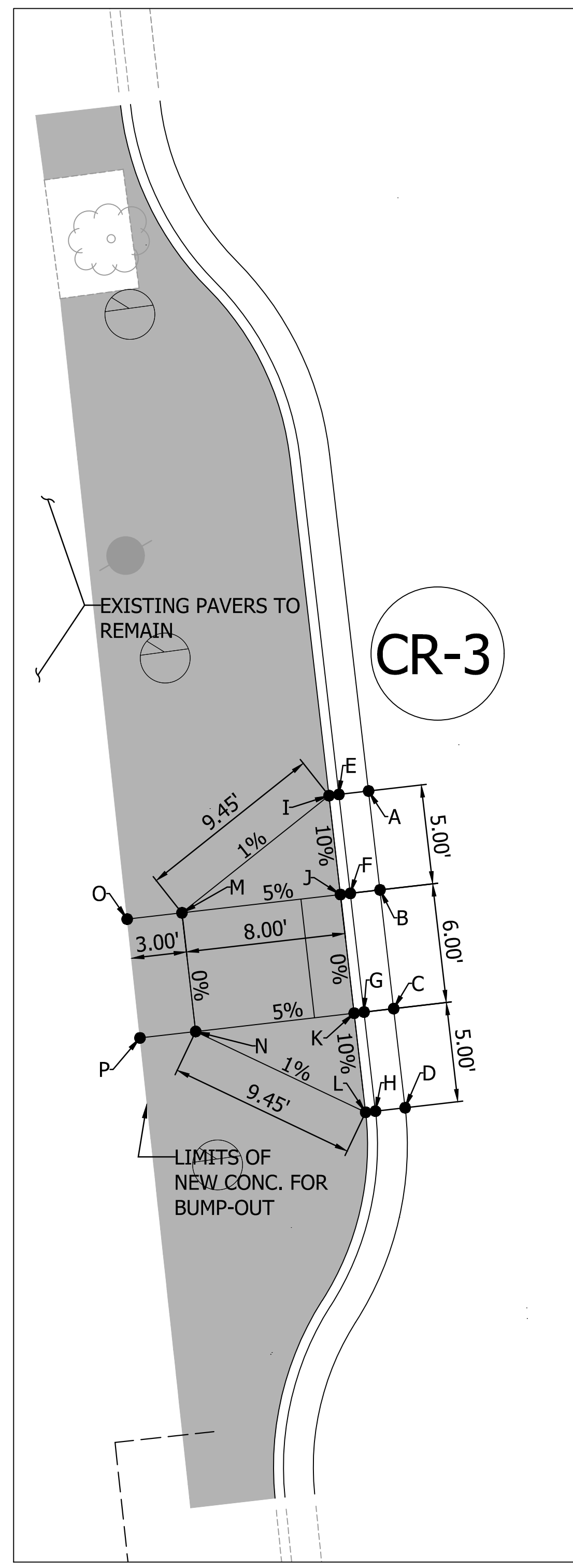
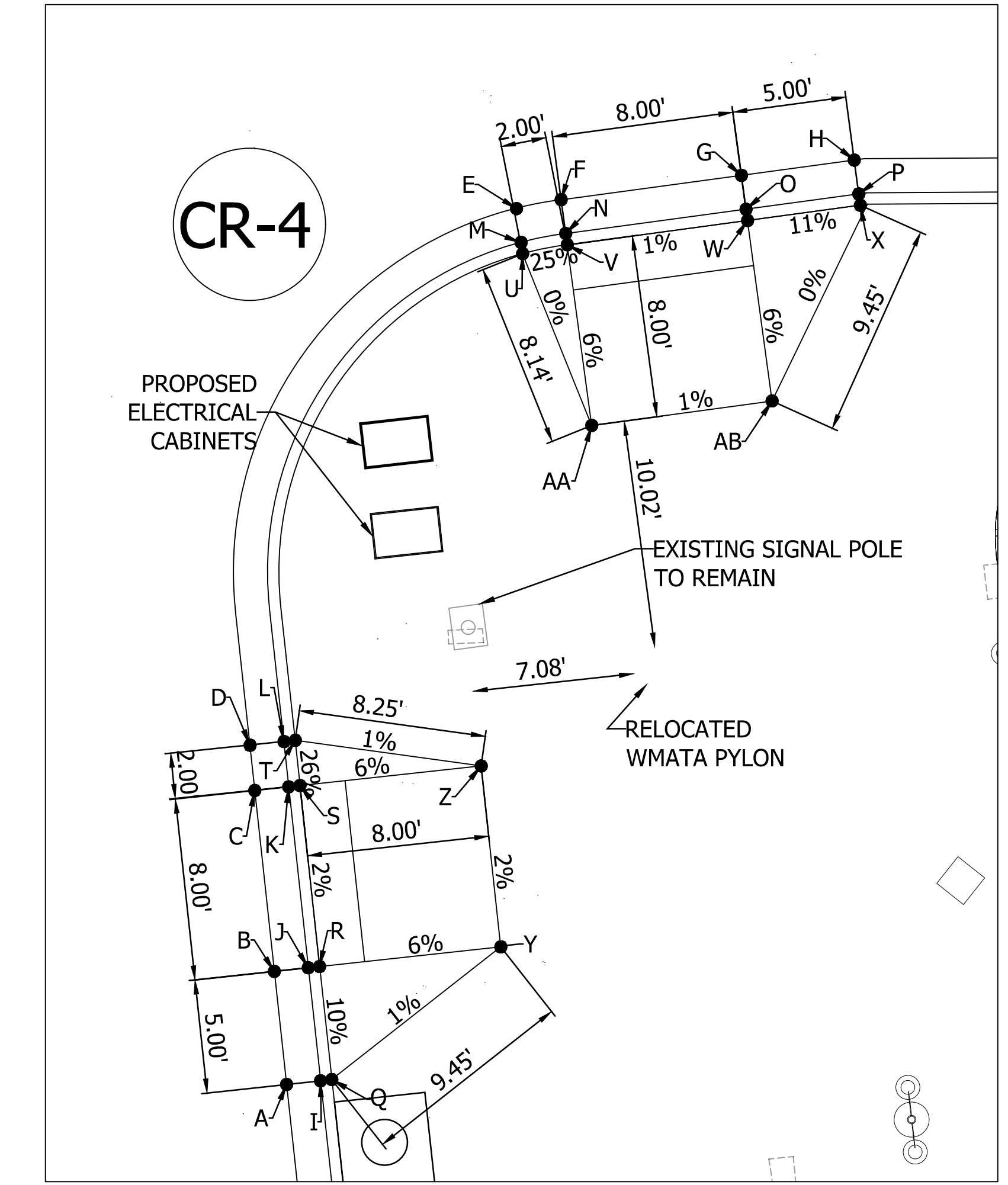
CONSTRUCTION MANAGER SUPERVISOR \_\_\_\_\_

PROGRAM MANAGER \_\_\_\_\_

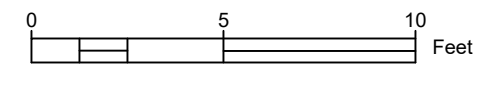
Revisions \_\_\_\_\_ Date \_\_\_\_\_

1. **Stuart St Redesign** 05-28-21

2. **RFI 043** 08-25-21



**NOTE:**  
GRADES SHOWN ON DETAILS ARE ROUNDED. CONSTRUCTION SHALL BE BASED ON ELEVATIONS GIVEN IN TABLES.

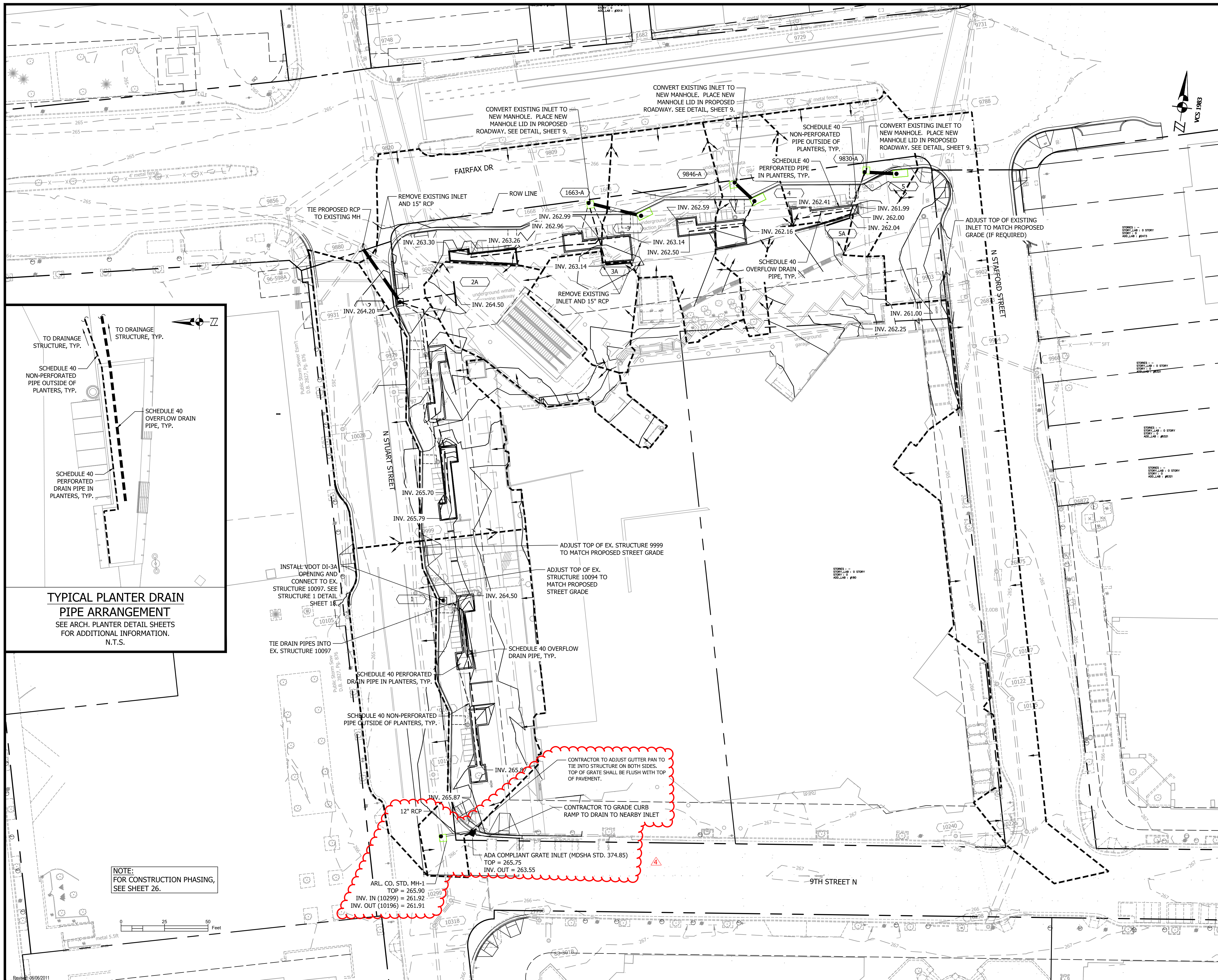


Project Name and Location  
**Ramp Details**  
1 of 2  
Ballston - MU Station  
Ballston - MU Multimodal Improvements

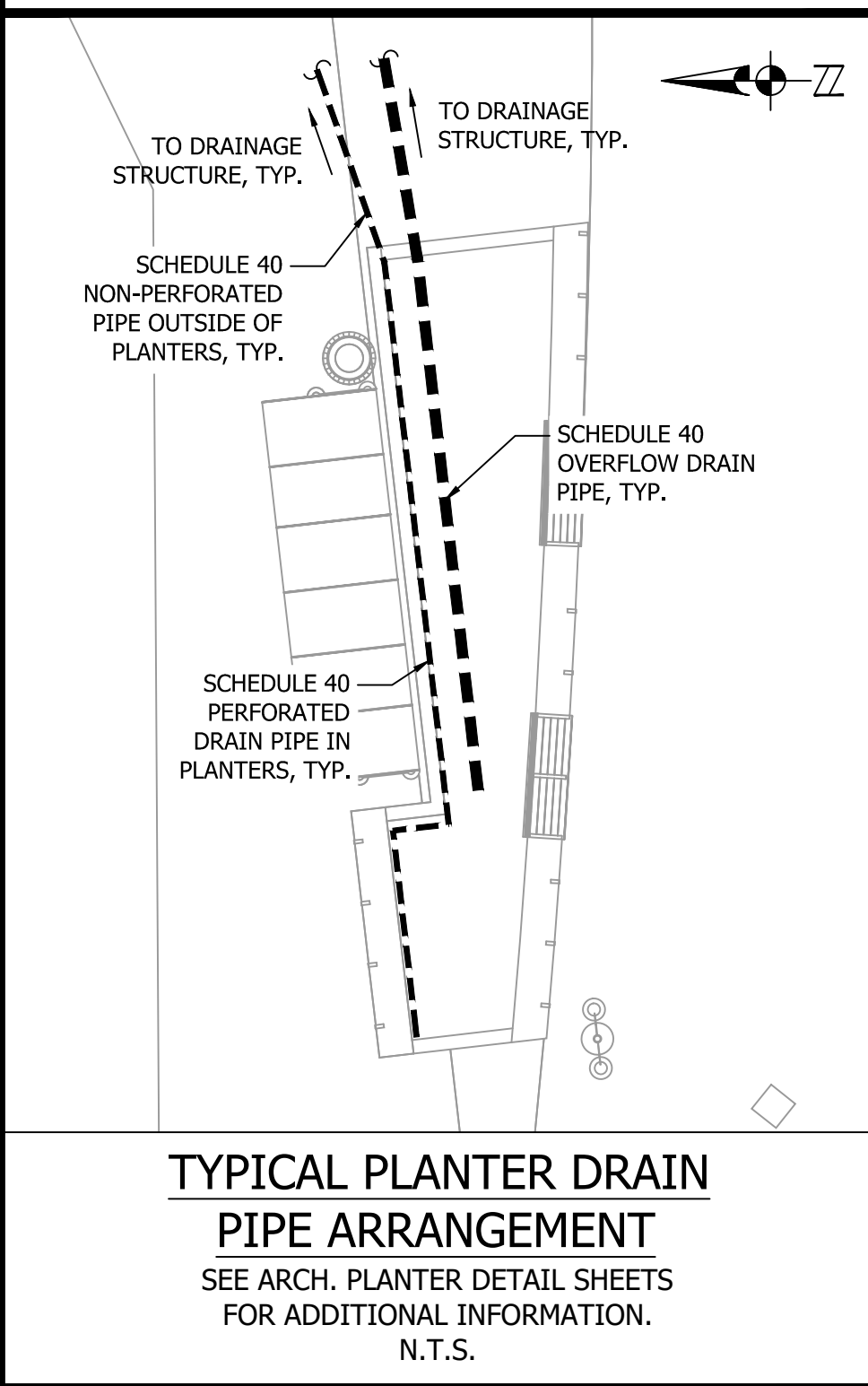
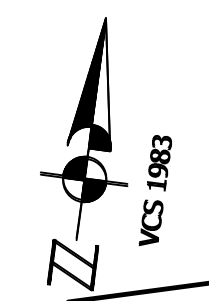
####

Designed: K. FLYNN  
Drawn: K. FLYNN  
Checked: C. ROBERTS  
Miss Utility Transmittal #: ####

Filename: 647881\_06\_Ramp Details.dwg  
Path: Z:\Wilmington Ballston MU\Drawings\Stuart St Redesign Sheets  
Plotted: September 01, 2021  
Plotted by: p0029986  
Scale: 1" = 5'



LEGEND  
 Drainage Divide



NOTE:  
 FOR CONSTRUCTION PHASING,  
 SEE SHEET 26.

- NEW / MODIFIED STORM SEWER**
- #1  
 INSTALL VDOT DI-3A OPENING 2'-6"  
 NOM. LENGTH AND CONNECT TO EX.  
 STRUCTURE 10097  
 TOP = 266.30  
 4" PVC IN = 264.50 (OD)  
 4" PVC IN = 264.50 (PERF.)  
 EX. 15" RCP OUT = 262.20 (10094)
  - #2A  
 TRENCH DRAIN, 14' NOM. LENGTH  
 TOP = 265.21  
 15" RCP OUT = 260.50 (2)
  - #2  
 ARL. CO. PCB-2, 4' NOM. LENGTH  
 TOP = 265.38  
 4" PVC IN = 264.20 (OD)  
 4" PVC IN = 264.20 (PERF.)  
 6" PVC IN = 261.75 (2A)  
 15" RCP OUT = 260.00 (9880)
  - #3A  
 TRENCH DRAIN, 14' NOM. LENGTH  
 TOP = 265.40  
 6" PVC OUT = 263.14 (1663 A)
  - #3  
 VDOT DI-3B, 8' NOM. LENGTH  
 TOP = 265.76  
 15" RCP OUT = 263.19 (1663 A)
  - #1663 A  
 CONVERT INLET TO MH  
 TOP = 265.71  
 4" PVC IN = 262.80 (PERF.)  
 4" PVC IN = 262.80 (PERF.)  
 6" PVC IN = 262.80 (3A)  
 15" RCP IN = 262.80 (3)  
 15" RCP OUT = 262.75 (1668)
  - #4  
 VDOT DI-3B, 8' NOM. LENGTH  
 TOP = 265.75  
 4" PVC IN = 262.00 (OD)  
 4" PVC IN = 262.00 (OD)  
 4" PVC IN = 262.00 (PERF.)  
 15" RCP OUT = 261.65 (9846 A)
  - #9846 A  
 CONVERT INLET TO MH  
 TOP = 265.74  
 15" RCP IN = 261.46 (4)  
 15" RCP OUT = 260.11 (24175)
  - #5A  
 TRENCH DRAIN, 14' NOM. LENGTH  
 TOP = 265.40  
 6" PVC OUT = 262.50 (9830 A)
  - #5  
 VDOT DI-3B, 8' NOM. LENGTH  
 TOP = 265.42  
 15" RCP OUT = 260.50 (9830 A)
  - #9830 A  
 CONVERT INLET TO MH  
 TOP = 265.72  
 4" PVC IN = 161.79 (PERF.)  
 6" PVC IN = 261.79 (5A)  
 15" RCP IN = 259.83 (5)  
 15" RCP OUT = 259.43 (9797)
  - #9903  
 EXIST. INLET  
 TOP = 263.97  
 4" PVC IN = 260.50(OD)  
 15" RCP OUT = 257.48 (9902)

Seal

Approvals	Date
TRANSPORTATION DIRECTOR	
TRANSIT BUREAU CHIEF	
CONSTRUCTION COORDINATOR	
WATER, SEWER, STREETS BUREAU CHIEF	
PROJECT MANAGER	
Revisions	Date
▲ RFI 4	05-04-20
▲ RFI 27	12-10-20
▲ Stuart St Redesign	05-28-21
▲ RFI 043	08-25-21

Project Name and Location  
**Drainage Plan**  
 Ballston - MU Station  
 Ballston - MU Multimodal Improvements

Designed: C. RICE  
 Drawn: C. RICE  
 Checked: C. ROBERTS  
 Miss Utility Transmittal #: #####

Filename: 647881\_17\_Drainage Plan.dwg  
 Path: Z:\Wilmington Ballston MU\Drawings\Stuart St Redesign Sheets  
 Plotted: September 01, 2021  
 Plotted by: p0029986

Scale: 1" = 25'

Sheet  
 17 of 68



Ardent Job: 193-20

October 7, 2021

Mr. Dara Soum, P.E,  
 Senior Transit Planner/Project Management Coordinator  
 Arlington, VA 22201  
 Tel. (office): 703-228-3202

**Re: Contract No. 20-110-9-6  
 Ballston MU Metro Station Area Improvements  
 Arlington County**

Dear Mr. Soum,

Ardent Company hereby submits another change order request for the removal of the concrete on top of garage roof.

Per the suggestion made on the meeting on 10/7/2021, we have considered the use of 30 lbs air hammer drill to remove the concrete. We also understand that the building management fully comprehends the use of mechanized equipments create vibration and may create new cracks, widen the existing cracks, disintegrate/spall the ceiling concrete further than the existing condition. Building management will repair the ceiling slab if needed and during the demolition works the underground parking space will be cordoned off.

Item#	Description	Qty	Unit	Unit Price	Total
CO8-1	Removal of Lean Concrete Fill	1	LS	\$50,779.00	\$50,779.00
<b>Total Net Change to Contract</b>					<b>\$ 50,779.00</b>

Should you have any questions, please do not hesitate to contact me.

Sincerely,  
**Ardent Company, LLC**

A handwritten signature in black ink that reads "A. Hooshangi".

Arash Hooshangi, P.E.  
 Managing Director



## Cost Breakdown For Removal of Lean Concrete Fill

### Labor & Equipment Costs

#### Labor

Classification	Days	Hours (ST)	Hours (OT)	Rate (hr)	OT Rate (hr)	Total
Foreman	15	8		\$ 43.76		\$ 5,250.84
Laborer	15	8		\$ 27.56		\$ 3,306.65
Laborer	15	8		\$ 25.33		\$ 3,039.96
Laborer	15	8		\$ 24.18		\$ 2,901.78
Laborer	15	8		\$ 24.18		\$ 2,901.78
Laborer	15	8		\$ 24.18		\$ 2,901.78
Total						\$ 20,302.79

#### Equipment

Equipment	Days	Hours (Active)	Hours (Stby)	Rate (Active)	Rate (Stby)	Total
Backhoe	15	2	0	\$ 35.76		\$ 1,072.80
Pick up Truck, Silverado 1500	15	8	0	\$ 28.26		\$ 3,391.20
Skid Steer, John Deere 317	15	8	0	\$ 29.63		\$ 3,555.60
Service Truck	15	8	0	\$ 31.26		\$ 3,751.20
Sweeper	15	8	0	\$ 27.16		\$ 3,259.20
Total						\$ 15,030.00

#### Material

Material	Supplier	Quantity	Unit	Unit Price	Unit Price + Tax	Total
Dump Fee	DC Materials	9	EA	\$ 210.00	\$ 222.60	\$ 2,003.40
Hammer Drill + Air Compressor	United Rentals	1	LS	\$ 1,819.46	\$ 1,928.63	\$ 1,928.63
Blades/Chisel	United Rentals	7	EA	\$ 50.00	\$ 53.00	\$ 371.00
Total						\$ 4,303.03

#### Subcontractor

Work	Sub Contractor	Day	Hours	Rate	Lump Sum	Total
Trucking		7	9	\$ 75.00		\$ 4,725.00
Allowance (10%)						\$ 472.50
Total						\$ 5,197.50



<b>Base Cost (Labor + Equipment + Material)</b>	<b>\$ 39,636.00</b>
<b>Base Cost Overhead and Profit (15%)</b>	<b>\$ 5,945.40</b>
<b>Subcontractor Cost Inc Overhead (10%)</b>	<b>\$ 5,197.50</b>
<b>Total</b>	<b>\$ 50,779.00</b>

## 2 items in your cart

Please complete your reservation

**Reservation** 2 items-ARDENT COMPANY LLC 857212

✔ 1. Jobsite 
 ✔ 2. Delivery & Pickup 
 3. Billing

	Cat Class: 110-1550 <b>Air Paving Breaker, 30 lb. class</b> QTY: 2 at ~ \$304 each Duration: 10/11/2021 - 10/29/2021 <a href="#">Edit</a> <a href="#">Delete</a> <a href="#">Save for Later</a>	WEB RATE <b>\$608</b>
	Cat Class: 100-3185 <b>Towable Air Compressor, 175 to 195 CFM, Diesel Powered</b> QTY: 1 at ~ \$757 each Duration: 10/11/2021 - 10/29/2021 <a href="#">Edit</a> <a href="#">Delete</a> <a href="#">Save for Later</a>	WEB RATE <b>\$757</b>
<b>JOBSITE</b>	<b>ARDENT COMPANY LLC</b> SHIRLINGTON RD & 24TH RD S X:SHIRLINGTON@24TH RD S ARLINGTON, VA 22206	<b>Contact</b> <a href="#">Edit</a> LEO PINEDA (703) 677-7665 LEO@ARDENTCOMPANY.COM
<b>RECEIVE</b>	<b>Deliver to Jobsite</b> + \$225 <b>Oct 11, 2021</b> 8:00am <a href="#">Edit</a>	
<b>RETURN</b>	<b>Request Pick-up Later</b> + \$225 <b>Oct 29, 2021</b> 8:00am	

Estimated Cost (3 item)

**\$1,928.63**

**Exclusive rates, only online.**



Rent online to access your negotiated contract rates and exclusive web rates on all your rentals.

**Section E. Attachment A**

## Attachment A

**Contract No. 20-110-9-6**

**Ballstons MU Metro**

**Proposed Change Order No. 16 Increased/Decreased Items**

Bid Item No.	Item Description	Unit	Unit Price	Original Quantity	Previous Quantity Adjustment	Increase/Decrease		Total Amount
						This CO	Unit Price	
CO4	Adjust Sanitary Manhole	EA	\$ 1,329.00	1.00	0.00	11.00	\$ 1,329.00	\$ 14,619.00
18	Catch Basin, Arlington County PCB-2 or VDOT DI-3B, 8' Length	EA	\$ 6,000.00	4.00	0.00	1.00	\$ 6,000.00	\$ 6,000.00
21	15" Pipe, RCP Class II, In Place Up to 6' Deep	LF	\$ 90.00	114.00	0.00	12.00	\$ 90.00	\$ 1,080.00
26	Abandon & Fill Existing Catch Basin/Inlet	EA	\$ 1,000.00	1.00	0.00	1.00	\$ 1,000.00	\$ 1,000.00
27	Abandon & Fill 15" RCP	LF	\$ 15.00	140.00	0.00	140.00	\$ 15.00	\$ 2,100.00
28	Adjust Catch Basin to New Grade	EA	\$ 1,500.00	3.00	0.00	3.00	\$ 1,500.00	\$ 4,500.00
36	Remove and Reset Fire Hydrant	EA	\$ 5,500.00	1.00	0.00	1.00	\$ 5,500.00	\$ 5,500.00
49	F&I Light Pole Foundation	EA	\$ 1,500.00	17.00	0.00	8.00	\$ 1,500.00	\$ 12,000.00
53	F&I Building Light Fixture	EA	\$ 350.00	3.00	0.00	3.00	\$ 350.00	\$ 1,050.00
58	Relocate Telecome Junction Box/ Vault	EA	\$ 1,500.00	2.00	0.00	2.00	\$ 1,500.00	\$ 3,000.00
60	Lower Telecome Line Beneath New Storm Drain Pipe	LS	\$ 5,000.00	1.00	0.00	1.00	\$ 5,000.00	\$ 5,000.00
61	Lower Electrical Duckbank Beneath Planter	LS	\$ 5,000.00	1.00	0.00	1.00	\$ 5,000.00	\$ 5,000.00
128	Comm Handhole (Junction Box County St'd. TS4-6)	EA	\$ 1,500.00	9.00	0.00	3.00	\$ 1,500.00	\$ 4,500.00
<b>Total Net Amount</b>								<b>\$ (36,111.00)</b>

## **CO 07 Backup Documentation**

**CHANGE ORDER No. 7 (PCO 19) – Delay Claim for Compensation of Additional Cost due to Extended Contract Duration comprised of nine (9) component items:**

- a) Extended Field Overhead - Construction Management Facility**
- b) Extended Maintenance of Traffic**
- c) Extended General Conditions**
- d) Cost of Maintaining Crew**
- e) Cost of Idle Equipment**
- f) Extended Rental Equipment**
- g) Materials Price Escalation**
- h) Cost of Schedule Acceleration for Phase 2 and Phase 4 Simultaneous Works**
- i) Extended Prorated Project Supervision.**

- Section A. Memorandum of Negotiations**  
**Section B. Final Negotiation Breakdown**  
**Section C. Pencil Copy (Working) Markups for Ardent's Estimate**  
**Section D. Original Party Estimate**

## **Section A. Memorandum of Negotiations**



**Ballston-MU Station Area Improvements Project  
MEMORANDUM OF NEGOTIATIONS**

**CHANGE ORDER No. 7 (PCO 19) – Delay Claim for Compensation of Additional Cost due to Extended Contract Duration comprised of nine (9) component items:**

- a) **Extended Field Overhead - Construction Management Facility**
- b) **Extended Maintenance of Traffic**
- c) **Extended General Conditions**
- d) **Cost of Maintaining Crew**
- e) **Cost of Idle Equipment**
- f) **Extended Rental Equipment**
- g) **Materials Price Escalation**
- h) **Cost of Schedule Acceleration for Phase 2 and Phase 4 Simultaneous Works**
- i) **Extended Prorated Project Supervision.**

**CONTRACT No:** 20-110-9-6

**DATE:** 12/17/21

1. **PROJECT:** Ballston-MU Station Area Improvements Project

2. **REASON FOR CHANGE ORDER:** See Remarks below.

3. **ARLINGTON COUNTY ESTIMATE (ACE):** N/A

4. **CONTRACTOR'S PROPOSAL (CP):**

Amount: \$446,946.32

Date: 12/08/21

5. **NEGOTIATIONS:**

Amount: \$349,359.88.

Date: 12/17/21

## 6. REMARKS:

### **Item (a): Extended Field Overhead - Construction Management Facility (Field Office):**

- Reason for Claim: Due to project delays outside of Ardent's control including Phase 1 Planter's redesign, Phase 1 utility relocations, the redesign of Phase 2 & 3 at N. Stuart St., and garage waterproofing delays, the project has extended beyond the original completion date of 11/14/21 and will extend beyond the current completion date of 12/22/21 (per previous COs 1-6). As a result, a revised Schedule Update No. 7R and a price proposal was requested from Ardent for this time extension and associated costs including this extension of the project field office lease.
- Negotiation Recap held 12/13/21: Arash Hooshangi (Managing Director), Vivek Thukral (Sr. PM) and Bijay Subedi (PM) representing Ardent; Alfonso Ronca (PM), Sekander Salihi (RE) Chowdhary Gondy (Schedule Reviewer), and Vasilios Andreou (Claims Reviewer) representing Arlington County met virtually, and Ardent presented / requested 8.53 months (256 CDs / 210 working days (WDs)) of delay in their revised Schedule Update No. 7R resulting in a new Contract end date of 07/28/22 and an estimated cost = \$9,523.20 LS for the extension of the project field office lease.

The parties discussed the specifics of this delay claim period in order to ensure there was a mutual understanding of the share of each party's responsibility for the delay. Both parties negotiated and acknowledged the following:

- (1) The 8.53 month delay claim was excessive; STV's analysis of Ardent's Schedule Update No. 7R and on-site performance record determined that 31 CDs were attributable to Ardent insufficiencies for work performed.
- (2) Ardent considered 7 WDs duration for Schedule Update No.7R Item #135 - Install Waterproofing (by others) in their schedule for Phase 3 which should be changed to zero (0) WDs because the building contractor may not perform this work in Phase 3.

Based on these acknowledgements, Ardent agreed to deduct 31 CDs plus 7 WDs from its delay claim, thereby establishing the total project delay time as 7.27 months (210 CDs / 135 WDs) resulting in a new Contract end of 06/20/22 and the cost for Extended Field Overhead - Construction Management Facility as **\$8,109.60 LS**.

**Note: The 7.27 month delay period is the basis for costs associated w/ delay claim items a, b, c, f, & i.**

### **Item (b): Extended Maintenance of Traffic**

- Reason for Delay Claim: Due to project delays outside of Ardent's control including Phase 1 Planter's redesign, Phase 1 utility relocations, the redesign of Phase 2 & 3 at N. Stuart St., and garage waterproofing delays, the project has extended beyond the original completion date of 11/14/21 and will extend beyond the current completion date of 12/22/21 (per previous COs 1-6). As a result, a revised Schedule Update No. 7R and a price proposal was requested from Ardent for this time extension and associated costs including this extension of the project maintenance of traffic controls.
- Negotiation Recap held 12/13/21: Arash Hooshangi (Managing Director), Vivek Thukral (Sr. PM) and Bijay Subedi (PM) representing Ardent; Alfonso Ronca (PM), Sekander Salihi (RE) Chowdhary Gondy (Schedule Reviewer), and Vasilios Andreou (Claims Reviewer) representing Arlington County met virtually, and Ardent presented / requested 8.53 months (256 CDs / 210 working days (WDs)) of delay in their revised Schedule Update No. 7R resulting in a new Contract end date of 07/28/22 and an estimated cost = \$35,030.65 LS for the extension of project maintenance of traffic controls.



The parties discussed the specifics of this delay claim period in order to ensure there was a mutual understanding of the share of each party's responsibility for the delay. Both parties negotiated and acknowledged the following:

- (1) The 8.53 month delay claim was excessive; STV's analysis of Ardent's Schedule Update No. 7R and on-site performance record determined that 31 CDs were attributable to Ardent insufficiencies for work performed.
- (2) Ardent considered 7 WDs duration for Schedule Update No.7R Item #135 - Install Waterproofing (by others) in their schedule for Phase 3 which should be changed to zero (0) WDs because the building contractor may not perform this work in Phase 3.

Based on these acknowledgements, Ardent agreed to deduct 31 CDs plus 7 WDs from its delay claim, thereby establishing the total project delay time as 7.27 months (210 CDs / 135 WDs) resulting in a new Contract end of 06/20/22 and the cost for Extended Maintenance of Traffic as **\$22,519.70 LS.**

**Item (c): Extended General Conditions:**

- Reason for Claim: Due to project delays outside of Ardent's control including Phase 1 Planter's redesign, Phase 1 utility relocations, the redesign of Phase 2 & 3 at N. Stuart St., and garage waterproofing delays, the project has extended beyond the original completion date of 11/14/21 and will extend beyond the current completion date of 12/22/21 (per previous COs 1-6). As a result, a revised Schedule Update No. 7R and a price proposal was requested from Ardent for this time extension and associated costs including this extension of project general conditions comprised of weekly SWPP reporting and needed additional survey.
- Negotiation Recap held 12/13/21: Arash Hooshangi (Managing Director), Vivek Thukral (Sr. PM) and Bijay Subedi (PM) representing Ardent; Alfonso Ronca (PM), Sekander Salihi (RE) Chowdhary Gondy (Schedule Reviewer), and Vasilios Andreou (Claims Reviewer) representing Arlington County met virtually, and Ardent presented / requested 8.53 months (256 CDs / 210 working days (WDs)) of delay in their revised Schedule Update No. 7R resulting in a new Contract end date of 07/28/22 and an estimated cost of \$5,800.63 for weekly SWPP reporting and \$2,400.00 for needed additional survey for a total estimated cost = \$8,200.63 LS for the extension of project general conditions.

The parties discussed the specifics of this delay claim period in order to ensure there was a mutual understanding of the share of each party's responsibility for the delay. Both parties negotiated and acknowledged the following:

- (1) The 8.53 month delay claim was excessive; STV's analysis of Ardent's Schedule Update No. 7R and on-site performance record determined that 31 CDs were attributable to Ardent insufficiencies for work performed.
- (2) Ardent considered 7 WDs duration for Schedule Update No.7R Item #135 - Install Waterproofing (by others) in their schedule for Phase 3 which should be changed to zero (0) WDs because the building contractor may not perform this work in Phase 3.

Based on these acknowledgements, Ardent agreed to deduct 31 CDs plus 7 WDs from its delay claim, thereby establishing the total project delay time as 7.27 months (210 CDs / 135 WDs) resulting in a new Contract end of 06/20/22, the cost for weekly SWPP reporting as \$5,171.19, and Ardent's asking cost for additional survey per vendor quotes was agreed to as \$2,400.00 for a total cost for Extended General Conditions as **\$7,571.19 LS.**

**Item (d): Cost of Maintaining Crew:**

- Reason for Claim: Due to project delays outside of Ardent's control including Phase 1 Planter's redesign, Phase 1 utility relocations, the redesign of Phase 2 & 3 at N. Stuart St., and garage waterproofing delays, the project has extended beyond the original completion date of 11/14/21 and will extend beyond the current completion date of 12/22/21 (per previous COs 1-6). As a result of these delays, Ardent was forced to demobilize three (3) separate times. In order to sustain this crew, Ardent reassigned each crewmember to other projects as "extras" (and presented actual hours spent thereon) rather than as a single dedicated and more productive unit and hereby claims a resultant loss of productivity.
- Negotiation Recap held 12/13/21: Arash Hooshangi (Managing Director), Vivek Thukral (Sr. PM) and Bijay Subedi (PM) representing Ardent; Alfonso Ronca (PM), Sekander Salihi (RE) Chowdhary Gondy (Schedule Reviewer), and Vasilios Andreou (Claims Reviewer) representing Arlington County met virtually, and Ardent presented and an estimated cost = \$20,000.00 for mobilization/demobilization and a cost = \$76,241.71 for crew maintenance for 102 WDs.

The parties discussed the specifics of this claim in order to ensure there was a mutual understanding of costs. Both parties negotiated and acknowledged the following:

- (1) Ardent considered 7 WDs duration for Schedule Update No.7R Item #135 - Install Waterproofing (by others) in their schedule for Phase 3 which should be changed to zero (0) WDs because the building contractor may not perform this work in Phase 3.
- (2) Ardent's claim of 70% crew productivity loss was excessive.
- (3) Ardent's claim of \$5,000 per mobilization/demobilization occurrence was excessive because crew productivity loss is already accounted for and large equipment remained on-site.
- (4) STV/County agreed to a 4<sup>th</sup> mobilization/demobilization occurrence in case Phase 3 waterproofing is decided by the building owner.

Based on these acknowledgements, Ardent agreed to deduct 7 WDs from Item #135 resulting in a reduction of WDs to maintain the crew from 102 to 95; to reduce the compensation for loss of productivity to 65%; and to reduce each mobilization/demobilization occurrence to \$3,500. One (1) mobilization/demobilization occurrence was added. As result, the parties agreed to the cost of Mobilization/Demobilization as **\$14,000.00 LS** and the Cost of Maintaining Crew as **\$68,964.21 LS**.

**Item (e): Cost of Idle Equipment:**

- Reason for Claim: Due to project delays outside of Ardent's control including Phase 1 Planter's redesign, Phase 1 utility relocations, the redesign of Phase 2 & 3 at N. Stuart St., and garage waterproofing delays the project has extended beyond the original completion date of 11/14/21 and will extend beyond the current completion date of 12/22/21 (per previous COs 1-6). As a result of these delays, Ardent was forced to demobilize three (3) separate times and presented costs for idle equipment that remained on site including a Hitachi 18W Excavator, backhoe and skid steer.
- Negotiation Recap held 12/13/21: Arash Hooshangi (Managing Director), Vivek Thukral (Sr. PM) and Bijay Subedi (PM) representing Ardent; Alfonso Ronca (PM), Sekander Salihi (RE) Chowdhary Gondy (Schedule Reviewer), and Vasilios Andreou (Claims Reviewer) representing Arlington County met virtually, and Ardent presented an estimated cost = \$41,580.00 for idle equipment for 102 WDs.

The parties discussed the specifics of this claim in order to ensure there was a mutual understanding of costs. Both parties negotiated and acknowledged the following:

- (1) Ardent considered 7 WDs duration for Schedule Update No.7R Item #135 - Install Waterproofing (by others) in their schedule for Phase 3 which should be changed to zero (0) WDs because the building contractor may not perform this work in Phase 3.
- (2) Ardent's cost for idle equipment was supported by Rental Rate Blue Book values / legitimate.

Based on these acknowledgements, Ardent agreed to deduct 7 WDs from Item #135 resulting in a reduction of WDs to maintain the crew from 102 to 95. As result, the parties agreed to the Cost of Idle Equipment as **\$38,726.94 LS.**

**Item (f): Extended Rental Equipment:**

- Reason for Claim: Due to project delays outside of Ardent's control including Phase 1 Planter's redesign, Phase 1 utility relocations, the redesign of Phase 2 & 3 at N. Stuart St., and garage waterproofing delays, the project has extended beyond the original completion date of 11/14/21 and will extend beyond the current completion date of 12/22/21 (per previous COs 1-6). As a result, a revised Schedule Update No. 7R and a price proposal was requested from Ardent for this time extension and associated costs including this extension rental equipment comprised of temporary construction fence, a portable toilet and a storage container.
- Negotiation Recap held 12/13/21: Arash Hooshangi (Managing Director), Vivek Thukral (Sr. PM) and Bijay Subedi (PM) representing Ardent; Alfonso Ronca (PM), Sekander Salihi (RE) Chowdhary Gondy (Schedule Reviewer), and Vasiliou Andreou (Claims Reviewer) representing Arlington County met virtually, and Ardent presented / requested 8.53 months (256 CDs / 210 working days (WDs)) of delay in their revised Schedule Update No. 7R resulting in a new Contract end date of 07/28/22 and an estimated cost = \$9,401.66 LS for the extension of rental equipment.

The parties discussed the specifics of this delay claim period in order to ensure there was a mutual understanding of the share of each party's responsibility for the delay. Both parties negotiated and acknowledged the following:

- (1) The 8.53 month delay claim was excessive; STV's analysis of Ardent's Schedule Update No. 7R and on-site performance record determined that 31 CDs were attributable to Ardent insufficiencies for work performed.
- (2) Ardent considered 7 WDs duration for Schedule Update No.7R Item #135 - Install Waterproofing (by others) in their schedule for Phase 3 which should be changed to zero (0) WDs because the building contractor may not perform this work in Phase 3.

Based on these acknowledgements, Ardent agreed to deduct 31 CDs plus 7 WDs from its delay claim, thereby establishing the total project delay time as 7.27 months (210 CDs / 135 WDs) resulting in a new Contract end of 06/20/22 and the cost for Extended Rental Equipment as **\$8,006.10 LS.**

**Item (g): Materials Price Escalation:**

- Reason for Claim: Due to project delays outside of Ardent's control including Phase 1 Planter's redesign, Phase 1 utility relocations, the redesign of Phase 2 & 3 at N. Stuart St., and garage waterproofing delays, the project has extended beyond the original completion date of 11/14/21 and will extend beyond the current completion date of 12/22/21 (per previous COs 1-6). Building material prices have soared over the last year, particularly for raw materials such as timber, plastics and steel, and supply chain disruptions, due to the COVID crisis, decreased the supply of building materials because output and construction remained strong during the pandemic which in turn resulted in shortages and price hikes. Because of this Ardent hereby requests to recover material cost increases for yet unpurchased materials to complete the contract.
- Negotiation Recap held 12/13/21: Arash Hooshangi (Managing Director), Vivek Thukral (Sr. PM) and Bijay Subedi (PM) representing Ardent; Alfonso Ronca (PM), Sekander Salihi (RE)

Chowdhary Gondy (Schedule Reviewer), and Vasilios Andreou (Claims Reviewer) representing Arlington County met virtually, and Ardent presented and an estimated cost = \$53,467.80 for the escalation in material prices

The parties discussed the specifics of this claim in order to ensure there was a mutual understanding of costs. Both parties negotiated and acknowledged the following:

- (1) Ardent produced original bid and current vendor quotes to support its request for the material cost difference only for remaining works to which STV/County determines to be legitimate.
- (2) Ardent is entitled to recover these costs due to the performance of work beyond the bid contract end date.

Based on these acknowledgements, both parties agreed to the cost for Materials Price Escalation as **\$53,467.80 LS.**

**Item (h): Cost of Schedule Acceleration for Phase 2 and Phase 4 Simultaneous Works:**

- Reason for Claim: Due to project delays outside of Ardent's control including Phase 1 Planter's redesign, Phase 1 utility relocations, the redesign of Phase 2 & 3 at N. Stuart St., and garage waterproofing delays, the project has extended beyond the original completion date of 11/14/21 and will extend beyond the current completion date of 12/22/21 (per previous COs 1-6). As a result, Ardent was requested to submit a cost proposal for the mobilization and equipment needed to add a 2<sup>nd</sup> crew to work in Phase 4 concurrently with Phase 2 to accelerate project completion and compress the schedule.
- Negotiation Recap: Held 12/13/21: Arash Hooshangi (Ardent's Owner), Vivek Thukral (Sr.PM) and Bijay Subedi (PM) representing Ardent; Alfonso Ronca (PM) and Sekander Salihi (RE) Chowdhary Gondy (Schedule Reviewer) and Vasilios Andreou, representing Arlington County met virtually and Ardent presented an estimated cost = \$17,709.00 for the cost of this schedule acceleration.

The parties discussed the specifics of this claim in order to ensure there was a mutual understanding of costs. Both parties negotiated and acknowledged the following:

- (1) Ardent's mobilization/demobilization cost was excessive.
- (2) Ardent inadvertently omitted adding the 15% overhead cost.
- (3) Ardent produced vendor quotes to be used for rental equipment.

Based on these acknowledgements, Ardent agreed to reduce the mobilization/demobilization cost to \$3,500 in alignment with previous Item (d) negotiation and added 15% overhead resulting in the Cost of Schedule Acceleration for Phase 2 and Phase 4 Simultaneous Works as **\$18,640.35 LS.**

**Item (i): Extended Prorated Project Supervision:**

- Reason for Claim: Due to project delays outside of Ardent's control including Phase 1 Planter's redesign, Phase 1 utility relocations, the redesign of Phase 2 & 3 at N. Stuart St., and garage waterproofing delays, the project has extended beyond the original completion date of 11/14/21 and will extend beyond the current completion date of 12/22/21 (per previous COs 1-6). As a result, a revised Schedule Update No. 7R and a price proposal was requested from Ardent for this time extension and associated costs including this extension of project field supervision costs.

- Negotiation Recap held 12/13/21: Arash Hooshangi (Ardent's Owner), Vivek Thukral (Sr.PM) and Bijay Subedi (PM) representing Ardent; Alfonso Ronca (PM) and Sekander Salihi (RE) Chowdhary Gony (Schedule Reviewer) and Vasilios Andreou, representing Arlington County met virtually and Ardent presented an estimated cost = \$175,791.16 for extended project field supervision.

The parties discussed the specifics of this delay claim period in order to ensure there was a mutual understanding of costs and the share of each party's responsibility for the delay. Both parties negotiated and acknowledged the following:

- (1) The 8.53 month delay claim was excessive; STV's analysis of Ardent's Schedule Update No. 7R and on-site performance record determined that 31 CDs were attributable to Ardent insufficiencies for work performed.
- (2) Ardent considered 7 WDs duration for Schedule Update No.7R Item #135 - Install Waterproofing (by others) in their schedule for Phase 3 which should be changed to zero (0) WDs because the building contractor may not perform this work in Phase 3.
- (3) Per Contract General Condition Sections G.4(h) and G.7 home office overhead expenses under a change order request or delay are not allowed; however, 15% overhead is warranted for field supervision; therefore, Sr. PM (Vivek Thukral) and General Superintendent (Leo Pineda) are disallowed.
- (4) Bijay Subedi is the PM but also serves as the project engineer for Ardent spending considerable time in the field; however, 100% time is excessive.

Based on these acknowledgements, Ardent agreed to deduct 31 CDs plus 7 WDs from its delay claim, thereby establishing the total project delay time as 7.27 months (210 CDs / 135 WDs) resulting in a new Contract end of 06/20/22; to remove both Sr. PM and General Superintendence from project supervision cost; and to reduce Bijay's time from 100% to 87% resulting in the cost for Extended Prorated Project Supervision as **\$109,353.99 LS.**

• Summary of Negotiations	Arlington County Estimate	Contractor's Proposal	Negotiated Price
Delay Claim for (9) items	N/A	\$446,946.32	\$349,359.88

Based upon the findings, it is recommended that a change order be issued to Ardent for net amount = \$349,359.99 LS. The following find the price to be fair and reasonable for the work involved.

  
 \_\_\_\_\_  
 Arash Hooshangi, Ardent President

12/20/2021  
 \_\_\_\_\_  
 Date

  
 \_\_\_\_\_  
 Sekander Salihi, EIT, STV Resident Engineer

12/20/21  
 \_\_\_\_\_  
 Date

*Dara Soum*  
 \_\_\_\_\_  
 Dara Soum, PE, Arlington County Project Manager

12/20/21  
 \_\_\_\_\_  
 Date

**Section B. Final Negotiation Breakdown**



Ardent Job: 193-20

December 17, 2021

Mr. Dara Soum, P.E,  
 Senior Transit Planner/Project Management Coordinator  
 Arlington, VA 22201  
 Tel. (office): 703-228-3202

**Re: Contract No. 20-110-9-6**  
**Ballston MU Metro Station Area Improvements**  
**Arlington County**

Dear Mr. Soum,

Ardent Company hereby submits a request for the compensation of additional overheads, rental materials etc due to extended contract duration.

Because of design changes after the project started multiple times, the project has suffered significant delays. The original contract completion date was 11/14/2021. Planters redesign at Fairfax Drive side, complete redesign of plaza area at N Stuart Street, waterproofing by building management are some of the notable issues that pushed the completion date while forcing Ardent to demobilize multiple time from the jobsite. Without any measures to mitigate the delay, the new completion date would be 12/8/2022. But after taking into consideration the mitigation measures suggested by County for the preparation of this claim, end date of 6/20/2022 has been considered. The table below summarizes the additional cost encountered by Ardent along with the detail breakdown in the subsequent pages.

Item#	Description	Qty	Unit	Unit Price	Total
CO7-1	Delay Claims and Additional Cost	1	LS	\$ 349,359.88	\$ 349,359.88
<b>Total Net Change to Contract</b>					<b>\$ 349,359.88</b>

Should you have any questions, please do not hesitate to contact me.

Sincerely,  
 Ardent Company, LLC

A handwritten signature in blue ink that reads "A. Hooshangi".

Arash Hooshangi, P.E.  
 Managing Director

**1 - Ballston Delay Costs**

*a) Extended Field Overhead*

Contract Time	Months	Calendar Days	
Delay	7.27	218	
			6/17/2020 NTP
			11/14/2021 Contract Completion
			6/20/2022 Expected Completion

Item	Description	Quantity	Unit	Unit Price	Total
1002	Construction Management Facility	7.27	mon.	\$ 1,116.00	\$ 8,109.60

**b) Maintenance of Traffic**

Maintenance of Traffic for additional months	\$ 22,519.70
--	--------------

**c) General Conditions**

SWPP reports for additional Months	\$ 5,171.19
Additional Survey	\$ 2,400.00
<b>Total</b>	<b>\$ 7,571.19</b>

**d) Cost of Maintaining Crew**

- 1 Nov 23 2020 - Feb 03 2021 (72 CD, 51WD)
- 2 Aug 23 2021 - Sep 27 2021 (33 CD, 24 WD)
- 3 Oct 07 2021 - Oct 20 2021 (13 CD, 10 WD)

*Due to Planter Redesign and utility conflicts  
 Due to conflict between building management and County for deciding responsibility for waterproofing  
 Demobilized to allow building management to continue waterproofing and remobilized to remove lean concrete  
 Total 95 WD*

Mobilization/Demobilization - Crew & Equipment	Qty	Cost	Amount
Mobilization/demobilization	4	\$ 3,500.00	\$ 14,000.00

Name	Classification	Days	Hours (ST)	Rate (hr)	Rate + Burden	Total Cost
Juan Carlos Mendoza	Foreman		\$ 494.00	\$ 38.00	\$ 43.76	\$ 21,615.96
Bernabe De La Roca	Labor		\$ 390.65	\$ 23.00	\$ 26.48	\$ 10,346.17
Onofre Reyes Bravo	Labor		\$ 447.36	\$ 22.00	\$ 25.33	\$ 11,333.03
Primitivo Najera Morales	Labor		\$ 434.36	\$ 22.00	\$ 25.33	\$ 11,003.71
Carlos Alexi Aguirre Murcia	Labor		\$ 234.81	\$ 20.97	\$ 24.15	\$ 5,670.01
<i>Overhead, 15%</i>						\$ 8,995.33
<b>Total</b>						<b>\$ 68,964.21</b>

**e) Cost of Idle Equipment**

Equipment	Days (WD)	Hours (Active)	Hours (Stby)	Rate (Standby)	Total Standby Cost
Excavator Hitachi 180W	95		760	\$ 31.13	\$ 23,658.80
Backhoe, JD 310G	95		760	\$ 8.16	\$ 6,201.60
Skid Steer, JD 317	95		760	\$ 5.02	\$ 3,815.20
<i>Overhead, 15%</i>					\$ 5,051.34
<b>Total</b>					<b>\$ 38,726.94</b>



**J) Extended Rentals**

*Delay: 7.27 months*

Item	Supplier	Monthly Rate	Delay (mo.)	Total Extended Rentals
Construction Fence/month	National Fence	\$ 698.32	7.27	\$ 5,074.46
Portable Toilet	Don Johns	\$ 127.20	7.27	\$ 924.32
Storage Container	Mobile Mini	\$ 132.53	7.27	\$ 963.05
			<i>Overhead, 15%</i>	\$ 1,044.27
<b>Total</b>				<b>\$ 8,006.10</b>

**g) Price Escalation**

Item	Quantity	Total
PVC pipes	1	\$ 4,153.28
Handrail	1	\$ 8,426.24
Copper Cables	1	\$ 2,057.49
Concrete	1	\$ 8,398.25
Reinforcement Steel	1	\$ 6,456.46
Waterproofing Materials	1	\$ 5,094.67
Hardware for Planters Price Escalation	1	\$ 9,080.00
Newspaper Rack	1	\$ 1,917.87
Bicycle Rack	1	\$ 909.48
	<i>Overhead, 15%</i>	\$ 6,974.06
		<b>\$ 53,467.80</b>

**h) Schedule Acceleration Costs - Phase 2 & Phase 4 Simultaneous works**

Names	Qty (mon)	Cost	Amount
Mobilization/Demobilization	1	\$ 3,500.00	\$ 3,500.00
Construction Fence Rentals	2	\$ 600.00	\$ 1,200.00
Storage Container Rentals	2	\$ 132.53	\$ 265.06
Rental Equipment			\$ 11,243.94
		<i>Overhead, 15%</i>	\$ 2,431.35
			<b>\$ 18,640.35</b>

**i) Prorated Project Supervision Costs**

Luis Perez	\$ 39,885.40
Bijay Subedi	\$ 55,205.02
	<i>Overhead, 15%</i>
	\$ 14,263.56
<b>Total</b>	<b>109,353.99</b>
<b>Grand Total</b>	
	<b>\$ 349,359.88</b>

**Cost Breakdown for MOT Overhead**

**Labor & Equipment Costs**

<b>Classification</b>	<b>Name</b>	<b>Days</b>	<b>Hours (ST)</b>	<b>Rate (hr)</b>	<b>Payroll Burden</b>	<b>Total</b>
Foreman	Juan Carlos	135	1	\$ 38.00	\$ 5.76	\$ 5,907.20
Labor		135	1	\$ 23.00	\$ 3.48	\$ 3,575.41
Labor		135	1	\$ 22.00	\$ 3.33	\$ 3,419.96
Labor		135	1	\$ 22.00	\$ 3.33	\$ 3,419.96
Labor		135	1	\$ 20.97	\$ 3.18	\$ 3,259.84
					<i>Allowance (15%)</i>	\$ 2,937.35
					<b>Total</b>	<b>\$ 22,519.70</b>

**Grand Total                    \$        22,519.70**

**Cost Breakdown for SWPPP Inspections**

**Labor & Equipment Costs**

<b>Labor Classification</b>	<b>Name</b>	<b>Weeks</b>	<b>Hours (ST)</b>	<b>Rate (Hr)</b>	<b>Payroll Burden</b>	<b>Total</b>
Foreman	Juan Carlos	31.00	1	\$ 38.00	\$ 5.76	\$ 1,356.47
Labor		31.00	1	\$ 23.00	\$ 3.48	\$ 821.02
Labor		31.00	1	\$ 22.00	\$ 3.33	\$ 785.32
Labor		31.00	1	\$ 22.00	\$ 3.33	\$ 785.32
Labor		31.00	1	\$ 20.97	\$ 3.18	\$ 748.56
					<i>Allowance (15%)</i>	\$ 674.50
					<b>Total</b>	<b>\$ 5,171.19</b>

**Grand Total                    \$            5,171.19**

**Section C. Pencil Copy (Working) Markups for Ardent's Estimate**



Ardent Pencil Copy  
12/13/21  
AR/SS

Ardent Job: 193-20

December 08, 2021

Mr. Dara Soum, P.E,  
Senior Transit Planner/Project Management Coordinator  
Arlington, VA 22201  
Tel. (office): 703-228-3202

**Re: Contract No. 20-110-9-6**  
**Ballston MU Metro Station Area Improvements**  
**Arlington County**

Dear Mr. Soum,

Ardent Company hereby submits a change order request for the compensation of additional overheads, rental materials etc due to extended contract duration.

Because of design changes after the project started multiple times, the project has suffered significant delays. The original contract completion date was 11/14/2021. Planters redesign at Fairfax Drive side, complete redesign of plaza area at N Stuart Street, waterproofing by building management are some of the notable issues that pushed the completion date while forcing Ardent to demobilize multiple time from the jobsite. Without any measures to mitigate the delay, the new completion date would be 12/8/2022. But after taking into consideration the mitigation measures suggested by County, the new completion date is ~~7/28/2022~~. The new schedule is attached with this letter. The table below summarizes the additional cost encountered by Ardent along with the detail breakdown in the subsequent pages.

6/28/22

Item#	Description	Qty	Unit	Unit Price	Total
CO7-1	Delay Claims and Additional Cost	1	LS	\$ 446,946.32	\$ 446,946.32
<b>Total Net Change to Contract</b>					<b>\$ <del>446,946.32</del></b>

Should you have any questions, please do not hesitate to contact me.

Sincerely,  
Ardent Company, LLC

A handwritten signature in blue ink that reads "A. Hooshangi".

Arash Hooshangi, P.E.  
Managing Director

1 - Direct Field Costs

a) Extended Field Overhead

Arden Pencile Copy 12/13/21  
AR/SS

Contract Time	Months	Calendar Days	
Delay	17.17	515	6/17/2020
	8.53	256	11/14/2021
	7.27	218 CD	6/20/2022

Item	Description	Quantity	Unit	Unit Price	Total
1002	Construction Management Facility	8.53	mon.	\$ 1,116.00	\$ 9,523.20

7.27

Agreed on 6/20/2022

b) Maintenance of Traffic

Maintenance of Traffic for additional months	\$ 25,000.00
--	--------------

will be re-estimated based on 7.27 M emA  
direct

c) General Conditions

SWPP reports for additional Months	\$ 5,800.63
Additional Survey	\$ 2,400.00
<b>Total</b>	<b>\$ 8,200.63</b>

will be re-estimated based on 6/20/22

d) Cost of Maintaining Crew

- Nov 23 2020 - Feb 03 2021 (72 CD, 51WD)
- Aug 25 2021 - Sep 27 2021 (33 CD, 24 WD)
- Oct 07 2021 - Oct 20 2021 (13 CD, 10 WD)
- Oct 26 2021 - Nov 16 2021 (21-7 = 14 CD, 10WD)

Due to Planter Redesign and utility conflicts  
Due to conflict between building management and County for deciding responsibility for waterproofing  
Demobilized to allow building management to continue waterproofing and remobilized to remove lean concrete  
7 CD are per contract

Agreed to deduct 7 WD

Mobilization/Demobilization - Crew & Equipment	Qty	Cost	Amount
Mobilization/demobilization	4	\$ 5,000.00	\$ 20,000.00

11% amount is excessive  
Agreed on \$3,500.00

Name	Classification	Days	Hours (ST)	Rate (hr)	Rate + Burden	Total Cost
Juan Carlos Mendoza	Foreman		571.20	\$ 38.00	\$ 43.76	\$ 24,994.00
Bernabe De La Roca	Labor		420.70	\$ 23.00	\$ 26.48	\$ 11,142.03
Onofre Reyes Bravo	Labor		481.78	\$ 22.00	\$ 25.33	\$ 12,204.81
Primitivo Najera Morales	Labor		467.78	\$ 22.00	\$ 25.33	\$ 11,850.14
Carlos Alexi Aguirre Murcia	Labor		452.88	\$ 20.97	\$ 24.15	\$ 6,106.16
<b>Total</b>					Overhead 15%	\$ 9,944.57
						\$ 76,241.71

All these numbers will be recalculated based on 9.5 WD.

e) Cost of Idle Equipment

Equipment	Days (WD)	Hours (Active)	Hours (Stby)	Rate (Standby)	Total Standby Cost
Excavator Hitachi 180W	<del>102</del>		<del>816</del>	\$ 31.13	<del>25,402.08</del>
Backhoe, JD 310G	<del>102</del>		<del>816</del>	\$ 8.16	<del>6,658.56</del>
Skid Steer, JD 317	<del>102</del>		<del>816</del>	\$ 5.02	<del>4,086.72</del>
				Overhead, 15%	<del>5,423.54</del>
<b>Total</b>					<b>44,580.50</b>

Arden Pencile Corp - 12/13/21  
 Agreed on 85 MTD AR/SS  
 From Blue Book

D Extended Rentals

Delay: 8.53 months

Item	Supplier	Monthly Rate	Delay (mo.)	Total Extended Rentals
Construction Fence/month	National Fence	\$ 698.32	<del>7.27</del> 8.53	<del>5,959.00</del>
Portable Toilet	Don Johns	\$ 127.20	<del>7.27</del> 8.53	<del>1,085.44</del>
Storage Container	Mobile Mini	\$ 132.53	<del>7.27</del> 8.53	<del>1,130.92</del>
			Overhead 15%	<del>1,220.30</del>
<b>Total</b>				<b>9,401.66</b>

Agreed on 7.27 months  
 Supported by vendor quotes

g) Price Escalation

Item	Quantity	Total
PVC pipes	1	\$ 4,153.28
Handrail	1	\$ 8,426.24
Copper Cables	1	\$ 2,057.49
Concrete	1	\$ 8,398.25
Reinforcement Steel	1	\$ 6,456.46
Waterproofing Materials	1	\$ 5,094.67
Hardware for Planers Price Escalation	1	\$ 9,080.00
Newspaper Rack	1	\$ 1,917.87
Bicycle Rack	1	\$ 909.48
		Overhead, 15%
<b>Total</b>		<b>53,467.80</b>

Supported by vendor quotes  
 Vendor quotes  
 This amount is excessive

h) Schedule Acceleration Costs - Phase 2 & Phase 4 Simultaneous works

Names	Qty (mon)	Cost	Amount
Mobilization/Demobilization	1	\$ 4,000.00	\$ 4,000.00
Construction Fence Rentals	2	\$ 600.00	\$ 1,200.00
Storage Container Rentals	2	\$ 132.53	\$ 265.06
Rental Equipment			\$ 11,243.94
<b>Total</b>			<b>17,709.00</b>

Agreed ~~add~~ to add 15% OT

2- Extended Home Office Overhead

Agreed on 8/10  
 Ardent Pericle copy 12/13/21  
 AR/SJ  
 will be re-calculated based on 707 months  
 Agreed to remove GS and Sr PM time

Luis Perez, Full time	\$	46,837.90
Bilal Subedi, Project Engineer, Full time	\$	74,514.84
<del>Leo Pinada, General Superintendent, 20% assignment</del>	<del>\$</del>	<del>11,922.38</del>
<del>Mivek Hinkert, Project Manager, 20% assignment</del>	<del>\$</del>	<del>19,586.76</del>
Overhead, 15%	\$	22,929.28
Total		<del>125,791.16</del>

Grand Total		\$	446,946.32
-------------	--	----	------------



*Ardent Pencil Copy AR/155 12/13/21*

**Cost Breakdown for MOT Overhead**

**Labor & Equipment Costs**

Classification	Name	Days	Hours (ST)	Rate (hr)	Payroll Burden	Total
Foreman	Juan Carlos	<del>210</del>	1	\$ 38.00	\$ 5.76	\$ 9,188.97
Labor		<del>210</del>	1	\$ 23.00	\$ 3.48	\$ 5,361.75
Labor		<del>210</del>	1	\$ 22.00	\$ 3.33	\$ 5,319.93
Labor		<del>210</del>	1	\$ 20.97	\$ 3.33	\$ 5,319.93
Labor		<del>210</del>	1		\$ 5.18	\$ 5,070.86
Total						\$ 4,709.22
Allowance (15%)						\$ 706.38
Total						\$ 5,415.60

*135 w/d*

Grand Total \$ ~~25,030.65~~

*Ardent Penile Copy 12/13/21  
AR/BS*

**Cost Breakdown for SWPPP Inspections**

**Labor & Equipment Costs**

Classification	Name	Weeks	Hours (ST)	Rate (hr)	Payroll Burden	Total
Foreman	Juan Carlos	<del>34.77</del>	1	\$ 38.00	\$ 5.76	\$ 1,321.28
Labor		<del>34.77</del>	1	\$ 23.00	\$ 3.48	\$ 920.95
Labor		<del>34.77</del>	1	\$ 22.00	\$ 3.33	\$ 880.91
Labor		<del>34.77</del>	1	\$ 20.97	\$ 3.18	\$ 839.67
<b>Total</b>						<del>756.60</del>
<b>Allowance (15%)</b>						<del>113.49</del>
<b>Total</b>						<del>870.09</del>

Grand Total \$ ~~5,800.63~~

*31.05 Weeks*

**Section D. Original Party Estimate**



Ardent Job: 193-20

December 08, 2021

Mr. Dara Soum, P.E,  
 Senior Transit Planner/Project Management Coordinator  
 Arlington, VA 22201  
 Tel. (office): 703-228-3202

**Re: Contract No. 20-110-9-6**  
**Ballston MU Metro Station Area Improvements**  
**Arlington County**

Dear Mr. Soum,

Ardent Company hereby submits a change order request for the compensation of additional overheads, rental materials etc due to extended contract duration.

Because of design changes after the project started multiple times, the project has suffered significant delays. The original contract completion date was 11/14/2021. Planters redesign at Fairfax Drive side, complete redesign of plaza area at N Stuart Street, waterproofing by building management are some of the notable issues that pushed the completion date while forcing Ardent to demobilize multiple time from the jobsite. Without any measures to mitigate the delay, the new completion date would be 12/8/2022. But after taking into consideration the mitigation measures suggested by County, the new completion date is 7/28/2022. The new schedule is attached with this letter. The table below summarizes the additional cost encountered by Ardent along with the detail breakdown in the subsequent pages.

Item#	Description	Qty	Unit	Unit Price	Total
CO7-1	Delay Claims and Additional Cost	1	LS	\$ 446,946.32	\$ 446,946.32
<b>Total Net Change to Contract</b>					<b>\$ 446,946.32</b>

Should you have any questions, please do not hesitate to contact me.

Sincerely,  
 Ardent Company, LLC

A handwritten signature in blue ink that reads "A. Hooshangi".

Arash Hooshangi, P.E.  
 Managing Director

**1- Direct Field Costs**

*a) Extended Field Overhead*

Months	Calendar Days	
Contract Time	17,17	515
Delay	8,53	256
		6/17/2020
		11/14/2021
		7/28/2022

Item	Description	Quantity	Unit	Unit Price	Total
1002	Construction Management Facility	8.53	mon.	\$ 1,116.00	\$ 9,523.20

**b) Maintenance of Traffic**

Maintenance of Traffic for additional months	\$ 35,030.65
--	--------------

**c) General Conditions**

SWPP reports for additional Months	\$ 5,800.63
Additional Survey	\$ 2,400.00
<b>Total</b>	<b>\$ 8,200.63</b>

**d) Cost of Maintaining Crew**

- 1 Nov 23 2020 - Feb 03 2021 (72 CD, 51WD) *Due to Planer Redesign and utility conflicts*
  - 2 Aug 25 2021 - Sep 27 2021 (33 CD, 24 WD) *Due to conflict between building management and County for deciding responsibility for waterproofing*
  - 3 Oct 07 2021 - Oct 20 2021 (13 CD, 10 WD) *Demobilized to allow building management to continue waterproofing and remobilized to remove lean concrete*
  - 4 Oct 26 2021 - Nov 16 2021 (21 -7 = 14 CD, 10WD) *7 CD are per contract waterproofing for Phase 3*
  - 4 Feb 2022 - Feb 2022 (10 CD, 7 WD) *waterproofing for Phase 3*
- Total 102 WD*

<i>Mobilization/Demobilization - Crew &amp; Equipment</i>	Qty	Cost	Amount
Mobilization/demobilization	4	\$ 5,000.00	\$ 20,000.00

Name	Classification	Days	Hours (ST)	Rate (hr)	Rate + Burden	Total Cost
Juan Carlos Mendoza	Foreman		\$ 571.20	\$ 38.00	\$ 43.76	\$ 24,994.00
Bernabe De La Roca	Labor		\$ 420.70	\$ 23.00	\$ 26.48	\$ 11,142.03
Onofre Reyes Bravo	Labor		\$ 481.78	\$ 22.00	\$ 25.33	\$ 12,204.81
Primitivo Najera Morales	Labor		\$ 467.78	\$ 22.00	\$ 25.33	\$ 11,850.14
Carlos Alexi Aguirre Murcia	Labor		\$ 252.88	\$ 20.97	\$ 24.15	\$ 6,106.16
<i>Overhead, 15%</i>						\$ 9,944.57
<b>Total</b>						<b>\$ 76,241.71</b>

*e) Cost of Ideal Equipment*

Equipment	Days (WD)	Hours (Active)	Hours (Stby)	Rate (Standby)	Total Standby Cost
Excavator Hitachi 180W	102		816	\$ 31.13	\$ 25,402.08
Backhoe, JD 310G	102		816	\$ 8.16	\$ 6,658.56
Skid Steer, JD 317	102		816	\$ 5.02	\$ 4,096.32
<i>Overhead, 15%</i>					\$ 5,423.54
<b>Total</b>					<b>\$ 41,580.50</b>

*f) Extended Rentals*

*Delay: 8.53 months*

Item	Supplier	Monthly Rate	Delay (mo.)	Total Extended Rentals
Construction Fence/month	National Fence	\$ 698.32	8.53	\$ 5,959.00
Portable Toilet	Don Johns	\$ 127.20	8.53	\$ 1,085.44
Storage Container	Mobile Mini	\$ 132.53	8.53	\$ 1,130.92
<i>Overhead, 15%</i>				\$ 1,226.30
<b>Total</b>				<b>\$ 9,401.66</b>

*g) Price Escalation*

Item	Quantity	Total
PVC pipes	1	\$ 4,153.28
Handrail	1	\$ 8,426.24
Copper Cables	1	\$ 2,057.49
Concrete	1	\$ 8,398.25
Reinforcement Steel	1	\$ 6,456.46
Waterproofing Materials	1	\$ 5,094.67
Hardware for Planers Price Escalation	1	\$ 9,080.00
Newspaper Rack	1	\$ 1,917.87
Bicycle Rack	1	\$ 909.48
<i>Overhead, 15%</i>		\$ 6,974.06
<b>Total</b>		<b>\$ 53,467.80</b>

*h) Schedule Acceleration Costs - Phase 2 & Phase 4 Simultaneous works*

Names	Qty (mon)	Cost	Amount
Mobilization/Demobilization	1	\$ 5,000.00	\$ 5,000.00
Construction Fence Rentals	2	\$ 600.00	\$ 1,200.00
Storage Container Rentals	2	\$ 132.53	\$ 265.06
Rental Equipment			\$ 11,243.94
<b>Total</b>			<b>\$ 17,709.00</b>

**2- Extended Home Office Overhead**

Luis Perez, Full time	\$	46,837.90
Bijay Subedi, Project Engineer, Full time	\$	74,514.84
Leo Pineda, General Superintendent, 20% assignment	\$	11,922.38
Vivek Thakral, Project Manager, 20% assignment	\$	19,586.76
<i>Overhead, 15%</i>	\$	22,929.28
<b>Total</b>		<b>175,791.16</b>

<b>Grand Total</b>	<b>\$</b>	<b>446,946.32</b>
--------------------	-----------	-------------------

**Cost Breakdown for MOT Overhead**

**Labor & Equipment Costs**

<b>Labor Classification</b>	<b>Name</b>	<b>Days</b>	<b>Hours (ST)</b>	<b>Rate (hr)</b>	<b>Payroll Burden</b>	<b>Total</b>
Foreman	Juan Carlos	210	1	\$ 38.00	\$ 5.76	\$ 9,188.97
Labor		210	1	\$ 23.00	\$ 3.48	\$ 5,561.75
Labor		210	1	\$ 22.00	\$ 3.33	\$ 5,319.93
Labor		210	1	\$ 22.00	\$ 3.33	\$ 5,319.93
Labor		210	1	\$ 20.97	\$ 3.18	\$ 5,070.86
					<i>Allowance (15%)</i>	\$ 4,569.22
					<b>Total</b>	<b>\$ 35,030.65</b>

**Grand Total                    \$            35,030.65**



**Cost Breakdown for SWPPP Inspections**

**Labor & Equipment Costs**

<b>Labor Classification</b>	<b>Name</b>	<b>Weeks</b>	<b>Hours (ST)</b>	<b>Rate (Hr)</b>	<b>Payroll Burden</b>	<b>Total</b>
Foreman	Juan Carlos	34.77	1	\$ 38.00	\$ 5.76	\$ 1,521.58
Labor		34.77	1	\$ 23.00	\$ 3.48	\$ 920.95
Labor		34.77	1	\$ 22.00	\$ 3.33	\$ 880.91
Labor		34.77	1	\$ 22.00	\$ 3.33	\$ 880.91
Labor		34.77	1	\$ 20.97	\$ 3.18	\$ 839.67
					<i>Allowance (15%)</i>	\$ 756.60
					<b>Total</b>	<b>\$ 5,800.63</b>

**Grand Total                    \$            5,800.63**

LIGGIE SURVEYS INC  
 5268 NICHOLSON LN, STE G234  
 KENSINGTON, MD 20895  
 202-702-7995

# Invoice

Date	Invoice #
12/16/2021	21-62

Bill To
ARDENT COMPANY, LLC VIVEK THUKRAL P. O. BOX 879 McLEAN, VA 22101

Project	BALLSTON METRO STATION IMP
---------	----------------------------

P.O. No.		Terms		
Description	Qty	Rate	Total...	Amount
CHECK EXISTING HORIZONTAL AND VERTICAL CONTROLS	0	500.00	100.00%	0.00
STAKE LOD. ISSUE WORKSHEET	0	600.00	100.00%	0.00
STAKE CURB AND GUTTER. ISSUE CUT SHEETS	0.2	3,000.00	100.00%	600.00
STAKE PLANTERS. ISSUE CUT SHEETS	0.2	1,800.00	100.00%	360.00
STAKE BUS SHELTERS. ISSUE CUT SHEETS	0.2	1,500.00	100.00%	300.00
STAKE STORM DRAIN STRUCTURES. ISSUE CUT SHEETS	0	800.00	100.00%	0.00
PERFORM AND ISSUE CERTIFIED AS-BUILT INPDF FORMAT	0	3,500.00	0.00%	0.00
EXTEND CONTROLS INTO GARAGE LEVEL	0	600.00	100.00%	0.00
AS-BILT INSIDE FACE OF GARAGE WALL. ISSUE AS-BUILT DRAWINGS	0	1,800.00	100.00%	0.00
STAKE FACE OF WALL AT GROUND LEVEL. ISSUE WORKSHEET	0	500.00	100.00%	0.00
AS-BUILT TEST HOLES 7, 8, 9. AS-BUILT CORRESPONDING ELEVATIONS AT GARAGE LEVEL. ISSUE AS-BUILT DRAWING	0	600.00	100.00%	0.00
STAKE POINTS FOR LIGHT POLE FOUNDATIONS. ISSUE WORKSHEETS	0	500.00	100.00%	0.00
PLACE MONITORING TARGETS ON WALL + CRACK GAUGES	0	800.00	100.00%	0.00
EXTEND SURVEY CONTROLS FOR TARGET READINGS	0	600.00	100.00%	0.00
TAKE BASE READINGS FOR MONITORING TARETS - 10/15/20	0	600.00	100.00%	0.00
TAKE WEEKS OF TARGET READING	0	400.00	100.00%	0.00
PURCHASE NEW SETS OF CRACK MONITORS AND ADHERSIVE	0	400.00	100.00%	0.00
02-08-21 - RESTAKE CURB AND GUTTER CR-2 AND CR-4. ISSUE CUT SHEETS	0	400.00	100.00%	0.00
02-09-21 - RESTAKE PLANTERS 6 AND 7 WITH NEW OFFSETS. ISSUE CUT SHEETS	0	400.00	100.00%	0.00
03-08-21 - RESTAKE REVISED PLANTERS 5 & 8. ISSUE WORKSHEET	0	500.00	100.00%	0.00
STANDPIPE CHANGE ORDER... COMPUTE AND STAKEOUT PROPOSED STANDPIPE WITH CUT SHEETS	0	800.00	100.00%	0.00
STANDPIPE CHANGE ORDER..... PERFORM & ISSUE AS-BUILT DRAWING OF INSTALLED STANDPIPE	0	1,600.00	100.00%	0.00
11-04-21 - RESTAKE CURB AND GUTTER	1	500.00	100.00%	500.00
Thank you for your business.	<b>Total</b>			\$1,760.00
	<b>Payments/Credits</b>			\$0.00
	<b>Balance Due</b>			<b>\$1,760.00</b>



www.equipmentwatch.com

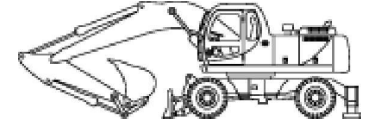
All prices shown in US\$

**Rental Rate Blue Book®**

June 10, 2019

**Hitachi ZAXIS 180W (disc. 2008)**

Wheel Mounted Hydraulic Excavators



Size Class:  
17.1 - 20.0 MTons  
Weight:  
41447 MT

**Configuration for ZAXIS 180W (disc. 2008)**

Bucket Capacity - Heaped **0.95 cu yd** Net Horsepower **123.0 hp**  
Operating Weight **18.8 mt** Power Mode **Diesel**

**Blue Book Rates**

\*\* FHWA Rate is equal to the monthly ownership cost divided by 176 plus the hourly estimated operating cost.

	Ownership Costs				Estimated Operating Costs	FHWA Rate**
	Monthly	Weekly	Daily	Hourly	Hourly	Hourly
Published Rates	\$10,185.00	\$2,850.00	\$715.00	\$105.00	\$46.65	\$104.52
<b>Adjustments</b>						
Region ( Virginia: 96.4%)	(\$366.66)	(\$102.60)	(\$25.74)	(\$3.78)		
Model Year (2006: 97.91%)	(\$205.19)	(\$57.42)	(\$14.40)	(\$2.12)		
Adjusted Hourly Ownership Cost (100%)	-	-	-	-		
Hourly Operating Cost (100%)					-	
<b>Total:</b>	<b>\$9,613.15</b>	<b>\$2,689.98</b>	<b>\$674.86</b>	<b>\$99.10</b>	<b>\$46.65</b>	<b>\$101.27</b>

**Non-Active Use Rates**

	Hourly
Standby Rate	\$31.13
Idling Rate	\$69.90

**Rate Element Allocation**

Element	Percentage	Value
Depreciation (ownership)	41%	\$4,175.85/mo
Overhaul (ownership)	43%	\$4,379.55/mo
CFC (ownership)	9%	\$916.65/mo
Indirect (ownership)	7%	\$712.95/mo
Fuel (operating) @ 3.27	33%	\$15.28/hr

Revised Date: 1st half 2019

These are the most accurate rates for the selected Revision Date(s). However, due to more frequent online updates, these rates may not match Rental Rate Blue Book Print. Visit the Cost Recovery Product Guide on our Help page for more information.

The equipment represented in this report has been exclusively prepared for ARASH HOOSHANGI (ardentbox-user@yahoo.com)



www.equipmentwatch.com

All prices shown in US\$

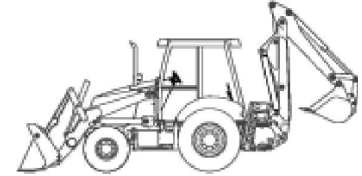
**Rental Rate Blue Book®**

June 18, 2019

**Deere 310G (disc. 2007)**

Tractor-Loader-Backhoes

Size Class:  
**14' to Under 15'**  
 Weight:  
**13170 feet**

**Configuration for 310G (disc. 2007)**

Drive	<b>4WD</b>	Loader Bucket Capacity—Heaped	<b>1.0 cu yd</b>
Net Horsepower	<b>70.0 hp</b>	Operator Protection	<b>ROPS/FOPS</b>
Power Mode	<b>Diesel</b>		

**Blue Book Rates**

\*\* FHWA Rate is equal to the monthly ownership cost divided by 176 plus the hourly estimated operating cost.

	Ownership Costs				Estimated Operating Costs Hourly	FHWA Rate** Hourly
	Monthly	Weekly	Daily	Hourly		
Published Rates	\$2,655.00	\$745.00	\$185.00	\$28.00	\$18.85	\$33.94
<b>Adjustments</b>						
Region ( Washington, District of Columbia: 106.2%)	\$164.61	\$46.19	\$11.47	\$1.74		
Model Year (2002: 96.05%)	(\$111.34)	(\$31.24)	(\$7.76)	(\$1.17)		
Adjusted Hourly Ownership Cost (100%)	-	-	-	-		
Hourly Operating Cost (100%)					-	
<b>Total:</b>	<b>\$2,708.27</b>	<b>\$759.95</b>	<b>\$188.71</b>	<b>\$28.56</b>	<b>\$18.85</b>	<b>\$34.24</b>

**Non-Active Use Rates**

Hourly

Standby Rate	\$8.16
Idling Rate	\$24.29

**Rate Element Allocation**

Element	Percentage	Value
Depreciation (ownership)	33%	\$876.15/mo
Overhaul (ownership)	47%	\$1,247.85/mo
CFC (ownership)	11%	\$292.05/mo
Indirect (ownership)	9%	\$238.95/mo
Fuel (operating) @ 3.27	47%	\$8.90/hr

Revised Date: 1st half 2019

These are the most accurate rates for the selected Revision Date(s). However, due to more frequent online updates, these rates may not match Rental Rate Blue Book Print. Visit the Cost Recovery Product Guide on our Help page for more information.

The equipment represented in this report has been exclusively prepared for ARASH HOOSHANGI (ardentbox-user@yahoo.com)



www.equipmentwatch.com

All prices shown in US\$

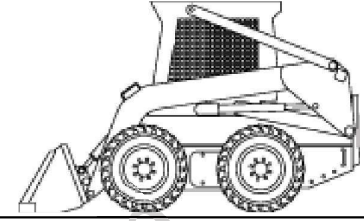
**Rental Rate Blue Book®**

June 10, 2019

**Deere 317 (disc. 2010)**

Skid Steer Loaders

Size Class:  
**1601 - 1750 lbs**  
 Weight:  
**6300 lbs**

**Configuration for 317 (disc. 2010)**

Net Horsepower **57.0 hp** Operating Capacity (Sae) **1750.0 lbs**  
 Operator Protection **ROPS** Power Mode **Diesel**

**Blue Book Rates**

\*\* FHWA Rate is equal to the monthly ownership cost divided by 176 plus the hourly estimated operating cost.

	Ownership Costs				Estimated Operating Costs Hourly	FHWA Rate** Hourly
	Monthly	Weekly	Daily	Hourly		
Published Rates	\$2,440.00	\$685.00	\$170.00	\$26.00	\$15.65	\$29.51
<b>Adjustments</b>						
Region ( Washington, District of Columbia: 106.2%)	\$151.28	\$42.47	\$10.54	\$1.61		
Model Year (2005: 97.51%)	(\$64.45)	(\$18.09)	(\$4.49)	(\$0.69)		
Adjusted Hourly Ownership Cost (100%)	-	-	-	-		
Hourly Operating Cost (100%)					-	
<b>Total:</b>	<b>\$2,526.83</b>	<b>\$709.38</b>	<b>\$176.05</b>	<b>\$26.93</b>	<b>\$15.65</b>	<b>\$30.01</b>

**Non-Active Use Rates**

Hourly

Standby Rate	\$5.02
Idling Rate	\$21.26

**Rate Element Allocation**

Element	Percentage	Value
Depreciation (ownership)	22%	\$536.80/mo
Overhaul (ownership)	65%	\$1,586.00/mo
CFC (ownership)	5%	\$122.00/mo
Indirect (ownership)	8%	\$195.20/mo
Fuel (operating) @ 3.27	44%	\$6.90/hr

Revised Date: 1st half 2019

These are the most accurate rates for the selected Revision Date(s). However, due to more frequent online updates, these rates may not match Rental Rate Blue Book Print. Visit the Cost Recovery Product Guide on our Help page for more information.

The equipment represented in this report has been exclusively prepared for ARASH HOOSHANGI (ardentbox-user@yahoo.com)



6401 W Passyunk Ave  
Philadelphia, PA 19153  
610-623-6860

Sales ReARDENT COMPANY LLCrepresentativ

Prepared By: Lamarr Mackler

E-mail Address: Imackler@rentnational.com

Fax Signed Quote To: 610-643-3262

## FENCE RENEWAL QUOTATION

Date: 11/18/2021

<b>Account #:</b> C192050		<b>Job Site #:</b> 0018				
Company Name: ARDENT COMPANY LLC		Site Name:				
Requested By: BIJAY SUBEDI		Site Address: 4230 FAIRFAX DR				
Phone #: 703-288-3250		Site City/State/Zip: ARLINGTON VA 22203				
Fax #:		Site Contact Name: BIJAY SUBEDI				
E-Mail: BIJAY@AREDENTCOMPANY.COM		Site Contact Phone: 703-288-3250				
<b>End of Original Contract</b>	<b>New Term</b>	<b>New Term Start Date</b>	<b>New Term Thru Date</b>			
12/18/21	6 MONTHS	12/19/21	6/19/22			
			<b>Payment Terms</b>			
			N30			
#	Quantity	UOM	Description	Taxable	Unit Price	Amount
1	720	LF	6' PANELS	✓	\$5.00	\$3,952.00
2						
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						
13						
14						
15						
<b>Notes:</b>				<b>Subtotal</b>		\$3,952.80
Please sign and return back today to avoid any monthly charges. Thank you.				<b>Sales Tax ( 6 )</b>		\$237.17
Please provide Address: _____ billing information. City: _____ State: _____ Zip: _____				<b>Total</b>		\$4,189.97

**NOTE: Renewal Contract CANNOT be processed until signed quote is returned and received.**

Customer's Signature: \_\_\_\_\_ Date: \_\_\_\_\_

Print Customer Name: \_\_\_\_\_ PO#: \_\_\_\_\_

**\$4189.97/6= \$698.32/Month**

Sams Creek  
2810 Sams Creek Road  
New Windsor, MD 21776

# Invoice

<b>BILL TO</b> Ardent Company P.O Box 879 McLean, VA 22101	<b>SHIP TO</b> Ardent Company 4215 Fairfax Dr. Arlington, VA 22203
---	---

PAID

OCT 18 2021

18971

INVOICE #	DATE	TOTAL DUE	DUE DATE	TERMS	ENCLOSED
23905	09/22/2021	\$127.20	10/22/2021	Net 30	

**P.O. NUMBER**  
JOB 193

DESCRIPTION	QTY	RATE	AMOUNT
1 Regular Portable Toilet	1	120.00	120.00T
Serviced 1x per week			
09/22/2021-10/20/2021			

Thank you for your business!  
SAMS CREEK  
443-821-4932  
office.samscreek@gmail.com

SUBTOTAL	120.00
TAX (6%)	7.20
TOTAL	127.20
BALANCE DUE	<b>\$127.20</b>









**NEW Quote for Pipes**

13900 LOWE STREET  
CHANTILLY, VA 20151-3213

Phone: 703-375-6820  
Fax: 703-435-1662

To:

From: Matthew Harperee

Comments:

06:41:20 NOV 19 2021

Page 1 of 1

FERGUSON WATERWORKS #1800

Price Quotation

Phone: 703-375-6820

Fax: 703-435-1662

**Bid No:** B520438  
**Bid Date:** 11/19/21  
**Quoted By:** MRH

**Cust Phone:** 703-288-3250  
**Terms:** NET 10TH PROX

**Customer:** ARDENT COMPANY LLC  
PO BOX 879  
MCLEAN, VA 22101

**Ship To:** ARDENT COMPANY LLC  
PO BOX 879  
MCLEAN, VA 22101

**Cust PO#:****Job Name:**

Item	Description	Quantity	Net Price	UM	Total
P40PPBEP75820	4X20 PVC S40 BE F758 PERF PIPE	20	675.700	C	135.14
P40BEPP20	4X20 FT PVC S40 BE PIPE	20	622.450	C	124.49
P40BEPU20	6X20 FT PVC S40 BE PIPE	20	1266.850	C	253.37
P40BEPX20	8X20 FT PVC S40 BE PIPE	20	1772.750	C	354.55
<b>Net Total:</b>					\$867.55
<b>Tax:</b>					\$52.05
<b>Freight:</b>					\$0.00
<b>Total:</b>					\$919.60

Quoted prices are based upon receipt of the total quantity for immediate shipment (48 hours). SHIPMENTS BEYOND 48 HOURS SHALL BE AT THE PRICE IN EFFECT AT TIME OF SHIPMENT UNLESS NOTED OTHERWISE. QUOTES FOR PRODUCTS SHIPPED FOR RESALE ARE NOT FIRM UNLESS NOTED OTHERWISE.

CONTACT YOUR SALES REPRESENTATIVE IMMEDIATELY FOR ASSISTANCE WITH DBE/MBE/WBE/SMALL BUSINESS REQUIREMENTS.

Seller not responsible for delays, lack of product or increase of pricing due to causes beyond our control, and/or based upon Local, State and Federal laws governing type of products that can be sold or put into commerce. This Quote is offered contingent upon the Buyer's acceptance of Seller's terms and conditions, which are incorporated by reference and found either following this document, or on the web at <https://www.ferguson.com/content/website-info/terms-of-sale>  
Govt Buyers: All items are open market unless noted otherwise.

**LEAD LAW WARNING:** It is illegal to install products that are not "lead free" in accordance with US Federal or other applicable law in potable water systems anticipated for human consumption. Products with \*NP in the description are NOT lead free and can only be installed in non-potable applications. Buyer is solely responsible for product selection.



**HOW ARE WE DOING? WE WANT YOUR FEEDBACK!**

Scan the QR code or use the link below to  
complete a survey about your bids:

<https://survey.medallia.com/?bidsorder&fc=1801&on=140524>



FERGUSON  
 13900 LOWE STREET  
 CHANTILLY, VA 20151-3213

Quote for Pipes

From: Michael Nystrom

Comments:

Phone: 703-375-6820  
 Fax: 703-435-1662

13:11:16 JAN 18 2019

Page 1 of 2

FERGUSON WATERWORKS #1800

Price Quotation  
 Phone: 703-375-6820  
 Fax: 703-435-1662

**Bid No:** B426349  
**Bid Date:** 01/18/19  
**Quoted By:** MEN

**Cust Phone:** 703-375-6820  
**Terms:** INTERCOMPANY TERMS

**Customer:** BID #1801  
 CHANTILLY  
 CHANTILLY, VA 20151

**Ship To:** BID #1801  
 CHANTILLY  
 CHANTILLY, VA 20151

**Cust PO#:** ARLINGTON COUNTY, VA

**Job Name:** BALLSTON METRO STAT.

Item	Description	Quantity	Net Price	UM	Total
	BALLSTON METRO STATION ARLINGTON COUNTY, VA =====				
P40PPBEP75820	-ITEM 23- 4X20 PVC S40 BE F758 PERF PIPE SUBTOTAL	700	353.051	C	2471.36 2471.36
P40BEPP20	---- -ITEM 24- 4X20 FT PVC S40 BE PIPE SUBTOTAL	480	198.503	C	952.81 952.81
P40BEP20	---- -ITEM 25- 6X20 FT PVC S40 BE PIPE SUBTOTAL	60	371.070	C	222.64 222.64
P40BEPX20	---- -ITEM 26- 8X20 FT PVC S40 BE PIPE SUBTOTAL	40	576.555	C	230.62 230.62
	----				



**Eastern  
Supply, Inc.**

240 MCGHEE ROAD, WINCHESTER VA 22603  
Phone : (540) 722-3292 Fax : (540) 722-0056

**New Quote for Handrail**

**Quotation**

**Quotation No**

9004303

**Customer**

ARDENT COMPANY, LLC  
P O BOX 879  
MCLEAN, VA-22101  
Phone : (703) 288-3250 Fax : (703) 288-3251  
Attn :

Quotation Date	10/04/2021
Due Date	
Expiration Date	11/05/2021
Customer PO No	
Project No	BALLSTON MU STATION IMPROVEMEN

**Shipping Address**

ARDENT COMPANY, LLC  
P O BOX 879  
MCLEAN, VA-22101  
Phone : (703) 288-3250 Fax : (703) 288-3251

Terms	Net 30
Ship Via	
FOB	
Payment Method	
Customer RFQ No.	
Sales Rep	Sean Keelan

Description	Quantity	UOM	Unit Price(\$)	Line Amount(\$)
<b>STAINLESS STEEL HANDRAIL</b>				
APPROX. 75' - 1 1/2" SS SINGLE LINE HANDRAIL W/ SS ESCUTCHEON COVER PLATES INSTALLED IN CORE DRILLED HOLES W/ HIGH STRENGTH GROUT.  INCLUDES: SUBMITTAL PACKAGE FIELD MEASUREMENT  EXCLUDES: CONCRETE WORK OF ANY KIND TRAFFIC CONTROLS GROUNDING ENGINEERING  ASSUMES: REASONABLE ACCESS FOR INSTALLATION CREW 304 STAINLESS STEEL MATERIAL	1	EA	18,686.0000	18,686.00

**\$18686/75 = \$249.146/LF**

<b>Subtotal</b>	\$18,686.00
<b>Surcharge</b>	
<b>Estimated Taxes</b>	\$ .00
<b>Grand Total</b>	\$18,686.00

Thank you for the opportunity  
10/04/2021



240 MCGHEE ROAD, WINCHESTER VA 22603  
Phone : (540) 722-3292 Fax : (540) 722-0056

Quote for Handrail

Quotation

Quotation No

9004303

**Customer**

ARDENT COMPANY, LLC  
P O BOX 879  
MCLEAN, VA-22101  
Phone : (703) 288-3250 Fax : (703) 288-3251  
Attn :

Quotation Date	11/22/2019
Due Date	
Expiration Date	12/31/2019
Customer PO No	
Project No	BALLSTON MU STATION IMPROVEMEN

**Shipping Address**

ARDENT COMPANY, LLC  
P O BOX 879  
MCLEAN, VA-22101  
Phone : (703) 288-3250 Fax : (703) 288-3251

Terms	Net 30
Ship Via	
FOB	
Payment Method	
Customer RFQ No.	
Sales Rep	Sean Keelan

Description	Quantity	UOM	Unit Price(\$)	Line Amount(\$)
<b>STAINLESS STEEL HANDRAIL</b>				
96' - 1 1/2" SS SINGLE LINE HANDRAIL W/ SS ESCUTCHEON COVER PLATES INSTALLED IN CORE DRILLED HOLES W/ HIGH STRENGTH GROUT.  INCLUDES:  SUBMITTAL PACKAGE FIELD MEASUREMENT  EXCLUDES:  CONCRETE WORK OF ANY KIND TRAFFIC CONTROLS  *ASSUMES REASONABLE ACCESS FOR INSTALLATION CREW	1	EA	13,743.0000	13,743.00

**\$13743/96 = \$143.156/LF**

<b>Subtotal</b>	\$13,743.00
<b>Surcharge</b>	
<b>Estimated Taxes</b>	\$ .00
<b>Grand Total</b>	\$13,743.00

Thank you for the opportunity  
11/22/2019

**Bijay Subedi**

**From:** Vijay Sadanandan [Vijay@ardentcompany.com]  
**Sent:** Monday, November 8, 2021 4:50 PM  
**To:** 'Bijay Subedi'  
**Subject:** FW: Current Pricing  
**Attachments:** image001.png

Respectfully,  
Vijay

---

**From:** Gary Martellucci [mailto:garym@twcablellc.com]  
**Sent:** Monday, November 8, 2021 4:49 PM  
**To:** Vijay Sadanandan  
**Subject:** Current Pricing

Vijay,

Good afternoon. Current pricing on the items you requested is as follows:

	<u>XHHW</u>	<u>THHN</u>
#6	.885/FT	.988/FT
#8	.571/FT	.643/FT
#10	.353/FT	.354/FT

Let me know if you need anything else.

Thank you.

**Gary Martellucci**



81 Executive Blvd.  
Farmingdale, NY 11735  
631-293-0000 (Phone)  
631-531-9400 (Fax)  
[garym@twcablellc.com](mailto:garym@twcablellc.com)

Call Us for Wires/Cables



**Quotation**

7401 PULASKI HIGHWAY  
BALTIMORE MD 21237  
410-866-6000 Fax 410-866-6001

QUOTE DATE	QUOTE NUMBER
11/25/19	S002893367
ORDER TO:	PAGE NO.
SHEPHERD ELECTRIC LAUREL THE BRICKYARD BUSINESS PARK 13150 MID ATLANTIC BLVD, STE 1 LAUREL MD 20708	1/2

QUOTE TO:  
ARDENT COMPANY LLC  
P O BOX 879  
MCLEAN, VA 22101

SHIP TO:  
ARDENT COMPANY LLC  
P O BOX 879  
MCLEAN, VA 22101  
VIJAY 703-288-3250

CUSTOMER NUMBER	CUSTOMER ORDER NUMBER	RELEASE NUMBER	SALESPERSON	
20923	Ballston - MU Stati		RRM	
WRITER	SHIP VIA	TERMS	SHIP DATE	
Cory McCormick GOVT	BW BEST-WAY	Pass Along 10th	11/30/19	
#	ORDER QTY	DESCRIPTION	Unit Price	Net
1	1020FT	PVC200 PVC 2" SCH 40 FULL LIFT QTY = 1400	70.200/c	716.04
2	600FT	PVC40080 PVC 4" SCH 80 FULL LIFT QTY = 570	277.310/c	1663.86
3	320FT	PVC150 PVC 1-1/2" SCH 40 CONDUIT FULL LIFT QTY = 2250	52.230/c	167.14
4	740FT	PVC200 PVC 2" SCH 40 FULL LIFT QTY = 1400	70.200/c	519.48
5	520FT	PVC300 PVC 3" SCH 40 FULL LIFT QTY = 880	120.000/c	624.00
6	420FT	PVC400 PVC 4" SCH 40 FULL LIFT QTY = 570	185.610/c	779.56
7	1020ft	THHN8BKS-MR5000 STRANDED WIRE THHN-8-BLK-19STR-CU-5000S 5000 FT REEL *** WIRE MANAGEMENT ***	259.000/m	264.18
8	1150ft	*** 1 X 1020FT *** XHHW6CU-MR5000 XHHW-6-CU-5000 FT MASTER REEL **WIRE MGMT** ***** CURRENTLY 4000FT IN OUR STOCK 1 X 1150FT *****	484.000/m	556.60
9	1500ft	THHN10GNS WIRE THHN-10-GRN-19STR-CU-5000S	157.570/m	236.36
10	1ea	QZT PG1324BA24 BOX, W/OPEN BOTTOM 24 13X24X24 QUAZITE (CORE)	235.000/ea	235.00

\*\*\* Continued on Next Page \*\*\*

# Shepherd

electric supply  
Since 1892

7401 PULASKI HIGHWAY  
BALTIMORE MD 21237  
410-866-6000 Fax 410-866-6001

## Quotation

QUOTE DATE	QUOTE NUMBER
11/25/19	S002893367
ORDER TO:	
SHEPHERD ELECTRIC LAUREL THE BRICKYARD BUSINESS PARK 13150 MID ATLANTIC BLVD, STE 1 LAUREL MD 20708	
PAGE NO.	2/2

QUOTE TO:  
ARDENT COMPANY LLC  
P O BOX 879  
MCLEAN, VA 22101

SHIP TO:  
ARDENT COMPANY LLC  
P O BOX 879  
MCLEAN, VA 22101  
VIJAY 703-288-3250

CUSTOMER NUMBER	CUSTOMER ORDER NUMBER	RELEASE NUMBER	SALESPERSON	
20923	Ballston - MU Stati		RRM	
WRITER	SHIP VIA	TERMS	SHIP DATE	FREIGHT EXEMPT
Cory McCormick GOVT	BW BEST-WAY	Pass Along 10th	11/30/19	No
#	ORDER QTY	DESCRIPTION	Unit Price	Net
11	1ea	QZT PG1324CA0009 SER BX LKG CVR COVER, W/2 BOLTS BLANK COVER INCLUDES BOLTS (CORE)	132.000/ea	132.00
12	1ea	QZT PG2436BA24 STK BX OPN BASE BOX, W/OPEN BOTTOM 24" * 24X36X24 DOES NOT INCLUDE COVER (CORE)	570.000/ea	570.00
13	1ea	QZT PG2436CA0009 SER BX LKG CVR COVER, W/2 BOLTS 24X36 COVER 2 BOLTS BLANK (CORE) ***** CURRENTLY 3PC IN OUR STOCK *****	275.000/ea	275.00
14	1020ft	BARE6-MR2500 BARE SOLID #6 BARE-SD-6-SOL-CU 2500RL **WIRE MGMT** **1 x 1020ft **	314.310/m	320.60
TAXES NOT INCLUDED				
			<b>Subtotal</b>	<b>7059.82</b>
			<b>Shipping</b>	<b>0.00</b>
			<b>Amount Due</b>	<b>7059.82</b>

This is a Quotation.  
Applicable taxes extra.



## New Quote for Concrete



Titan Virginia Ready Mix LLC  
5700 Lake Wright Dr., Suite 300  
Norfolk, VA 23502

November 5, 2021

### PRICE INCREASE ANNOUNCEMENT: CONCRETE PRODUCTS

Dear Valued Customer,

Please be advised, due to the continued rising cost of construction materials, that effective January 1, 2022, Titan Virginia Ready Mix will increase ready mixed concrete prices by \$12.00/ cubic yard.

All existing contracts, signed quotations, and letters of intent will be honored inclusive of their agreed upon escalators and expiration dates. However, no price protection will be offered beyond January 1, 2022, on work that is not secured by an existing written agreement. Titan Virginia Ready Mix's standard terms and conditions of sale will remain in effect.

Your local Sales Representative will be in contact with you to discuss in further detail. We sincerely appreciate your business and look forward to continuing to service your needs in the future. **Pricing is confidential; please do not disclose.**

Sincerely,

A handwritten signature in cursive script, appearing to read "Louis Petrillo".

Louis Petrillo

Vice President

Mid-Atlantic Ready Mix



**Melanie Blankenship**  
**Sales Representative - NOVA**  
 Titan Virginia Ready Mix, LLC  
 22963 Concrete Plaza  
 Sterling, VA 20166  
 Telephone: (703) 478-2600  
 Mobile: (703) 703-987-9011  
 Fax: (703) 471-9348  
 Website: [www.titanamerica.com](http://www.titanamerica.com)

July 7, 2020

**Ardent**  
**Attn: Bijay**  
**Phone:**  
**Email: [bijay@ardentcompany.com](mailto:bijay@ardentcompany.com)**

We are pleased to submit the following quotation for delivery to **Nauck Town Square Project** as follows:

Project Location: Springfield  
 Concrete Yardage: 350 yards  
 Supplying Plant: Arlington

#### Ready Mix Concrete

Mix Code	Mix Description	Mix Price
<b>DOGBNR20</b>	<b>A3 General</b>	<b>\$134.00</b>
<b>CAJ0NR20</b>	<b>4000 PSI AE Straight Portland</b>	<b>\$140.00</b>
<b>CAJANR20</b>	<b>4000 PSI AE Fly Ash</b>	<b>\$138.00</b>
	<b>Smoke 920 Color</b>	<b>\$65.00 CY</b>

#### Additional Products

<b>Fuel Surcharge (May vary month to month)</b>	<b>\$10.00/load</b>
<b>Environmental Fee</b>	<b>\$1.50/CY</b>
<b>Prime Grout</b>	<b>\$175.00/CY</b>

Ice (40 LB.Bag)	\$ 18.00/CY	Truck Washout Fee (Color)	\$75.00/Load
Fiberstrand 150 ML 1 LB	\$6.25/CY	Non Chloride Accelerator 1%	\$5.00/CY
Mid-Range Water Reducer	\$4.00/CY	Non Chloride Accelerator 2%	\$10.00/CY
High-Range Water Reducer	\$7.00/CY	Cooling 6/1 – 8/31	\$7.00/CY
Retarder : 1 hour	\$1.00/CY	Winter Service Charge 12/1 – 3/31	\$3.50/CY
Retarder: 2 hour	\$2.50/CY	Saturday Delivery	\$5.00/CY
Short load Charge under 8 yds	\$25.00/CY	Overtime Charge>60 minutes	\$1.25/min
Fiberstrand F ML PSI 1.5LB	\$ 7.50/CY	Alexandria Haul Charge	\$1.00/CY

- The above pricing is firm through December 31, 2020. Effective January 1, 2021, add a \$4.00 per cubic yard and this will be firm through March 31, 2021.

**WHITE CAP****ON ACCOUNT**858 - Capital Heights  
9230 Alaking Ct  
Capitol Heights, MD, 20743  
(301) 773-3800**QUOTE****44842843****THIS IS A QUOTE ONLY DO NOT SHIP OR  
TENDER FUNDS****Sold To:** 73743000  
ARDENT COMPANY LLC  
PO BOX 879  
MCLEAN, VA, 22101  
703-288-3250**Ship To:** BALLSTON METRO STATION,10002791457  
4230 FAIRFAX DRIVE  
ARLINGTON, VA, 22201  
**Job Site Contact:** LUIS PEREZ  
**Job Site Phone:** 703-398-9489  
**Map #:**

03:27 PM

**Ordered By:** BIJAY SUBEDI**Contact Phone:** 703-888-9923

Quote Number		Quote Date	Valid Until	Request Date	Sales Person	
44842843		11/05/2021	11/12/2021	11/09/2021	Power, W	
Terms		Shipping Method	Quote Name	Customer PO	Created By	
N30D		2. Our Truck			Graham, J	
SEQ	Part# H/M	Description	Ord Quantity	U/M Unit WT	Price COO	Amount
10	434666G510	6"X6" W2.9 6GA 5'X10' WIRE MESH MAT	144	EA 20.69 LBS	\$21.70	\$3,124.80
20	4346610G510M	6"X6" W1.4 10GA 5'X10' WIRE MESH MAT	160	EA 9.99 LBS	\$12.49	\$1,998.40

<b>Shipped amount</b>	<b>\$5,123.20</b>
<b>Order charges</b>	<b>\$0.00</b>
<b>Tax amount</b>	<b>\$0.00</b>
<b>Lumber Tax rate/amount</b>	<b>1.00%</b>
<b>Quote total</b>	<b>\$5,123.20</b>

Shipped Weight: **4,577.76** Customer acceptance signature: \_\_\_\_\_ Date : \_\_\_\_\_

ALL ITEMS AND QUANTITIES REQUIRE CUSTOMER REVIEW AND APPROVAL  
 AVAILABILITY AND LEAD TIMES ARE SUBJECT TO CHANGE  
 SPECIAL ORDERED ITEMS ARE SUBJECT TO MANUFACTURER APPROVAL PRIOR TO RETURN.  
 QUOTE IS SUBJECT TO EXPIRATION AS INDICATED IN THE ABOVE 11/12/2021 DATE.

Note: Due to volatility in the steel market from the recent Section 232 decision, domestic supply constraints and active trade negotiations, pricing is subject to change on a daily basis. Please review your pricing and contact your sales associate immediately to secure products and pricing.

**HD SUPPLY**  
**CONSTRUCTION & INDUSTRIAL**  
**WHITE CAP**

HD Supply Construction Supply, Ltd.  
 501 W. Church Street, Orlando, FL 32805-2247

**BRANCH ADDRESS**  
 206 - GAINESVILLE  
 (703) 912-5900  
 14235 JOHN MARSHALL HWY  
 GAINESVILLE VA 20155

INVOICE NUMBER
50013688535
INVOICE DATE
08/10/2020
CUSTOMER PO NUMBER
193

**PAID**  
 SEP 07 2020  
 BY: 17661

ENROLLMENT TOKEN: MLB ZXL GKS

**SOLD TO: 73743000**  
 24291 1 MB 0.439 E0090 I0127 D6479306937 S2 P7602589 0002:0002



ARDENT COMPANY LLC  
 PO BOX 879  
 MCLEAN VA 22101-0879

TERRITORY:  
**SHIP TO: 10002791457**

**PLEASE REMIT PAYMENT TO:**  
 HD SUPPLY CONSTRUCTION AND INDUSTRIAL - WHITE CAP  
 P.O. Box 4852  
 ORLANDO, FL 32802-4852

BALLSTON METRO STATION  
 4230 FAIRFAX DRIVE  
 ARLINGTON VA 22201

ORDER DATE	ORDER NO.	ORDERED BY	ACCOUNT MANAGER	TAKEN BY
08/07/2020	39017575	BIJAY SUBEDI	POWER, BILL B	WILL, BRAD
BRANCH	ACCT JOB NO.	TERMS	SHIP VIA / ROUTING	CUSTOMER JOB NO.
206	10002791457	NET 30 DAYS	2. OUR TRUCK	BALLSTON METRO

LINE	PART NUMBER	DESCRIPTION	QTY ORD	UNIT PRICE	QTY BKO	QTY SHP	EXTENDED PRICE	TAX AMT
0	HDRDESC	***** DELIVERY TAG#: 15483801 *****	1	0	0	1	0.00	
1	434666G510	6"X6" W2.9 6GA 5'X10' WIRE MESH MAT	70	9.45 EA	0	70	661.50	39.69

THESE ITEMS ARE CONTROLLED BY THE U.S. GOVERNMENT AND AUTHORIZED FOR EXPORT ONLY TO THE COUNTRY OF ULTIMATE DESTINATION FOR USE BY THE ULTIMATE CONSIGNEE OR END-USER(S) HEREIN IDENTIFIED. THEY MAY NOT BE RESOLD, TRANSFERRED OR OTHERWISE DISPOSED OF TO ANY OTHER COUNTRY OR ANY PERSON OTHER THAN THE AUTHORIZED ULTIMATE CONSIGNEE OR END-USER(S), EITHER IN THEIR ORIGINAL FORM OR AFTER BEING INCORPORATED INTO OTHER ITEMS, WITHOUT FIRST OBTAINING APPROVAL FROM THE U.S. GOVERNMENT OR AS OTHERWISE AUTHORIZED BY U.S. LAW AND REGULATIONS.

For questions regarding this invoice please call 1-866-857-0295.

NO REFUNDS OR EXCHANGES ON NON STOCK MERCHANDISE  
 Visit <https://www.whitecap.com/shop/wc/terms-and-conditions-of-sale> to view complete terms and conditions.

TOTAL GROSS	661.50
TOTAL TAX	39.69
TOTAL SHIPPING AND HANDLING	0.00
TOTAL INVOICE	701.19

RECEIVED BY: LOUIS PEREZ

SIGNATURE COPY ON FILE

Please verify that the remit to address you are using agrees to the address shown at the top of this invoice.

**WHITE CAP ON ACCOUNT**

187 - Chantilly VA (KCP) (PZ10)  
3933 Avion Park Ct Unit B114  
Chantilly, VA, 20151  
(703) 263-0730

**QUOTE****44892184**

**THIS IS A QUOTE ONLY DO NOT SHIP OR  
TENDER FUNDS**

**Sold To:** 73743000  
ARDENT COMPANY LLC  
PO BOX 879  
MCLEAN, VA, 22101  
703-288-3250

**Ship To :** BALLSTON METRO STATION,10002791457  
4230 FAIRFAX DRIVE  
ARLINGTON, VA, 22201  
**Job Site Contact:** BIJAY SUBEDI  
**Job Site Phone:** 703-888-9923  
**Map #:**

10:07 AM

**Ordered By:** BIJAY SUBEDI**Contact Phone:** 703-888-9923

Quote Number		Quote Date	Valid Until	Request Date	Sales Person	
44892184		11/10/2021	11/24/2021		Power, W	
Terms		Shipping Method	Quote Name	Customer PO	Created By	
N30D		2. Our Truck		tbd	Tejera, M	
SEQ	Part# H/M	Description	Ord Quantity	U/M Unit WT	Price COO	Amount
10	457B3000	36"X66' BITUTHENE 3000 MEMBRANE ROLL GCP	4	RL 78 LBS	\$135.00	\$540.00
20	457B2LVC5G  HAZMAT	5GAL PAIL BITUTHENE B2 LVC GREEN CONCRETE PRIMER GCP  Class 3,UN3295,PAIL	1	PL 44 LBS	\$299.00	\$299.00
40	457GBM29OZ	29OZ MASTIC BITUTHENE GCP	15	EA 2.75 LBS	\$15.29	\$229.35
50	457GHD2	4'X50' HYDRODUCT 220 VERTICAL DRAIN GCP	3	RL 45 LBS	\$209.00	\$627.00
60	457GHD660	4'X50' HYDRODUCT 660 HORIZONTAL DRAIN GCP	3	RL 50 LBS	\$279.00	\$837.00
70	457GHDC600	2'X50' HYDRODUCT 600 COIL DRAIN GCP	3	EA 30 LBS	\$375.00	\$1,125.00
80	179TAL10	ALL PURPOSE TERMINATION BAR HOHMANN AND BARNARD	920	FT .4 LBS	\$0.49	\$450.80
90	635001580	1-1/2"X4'X8' 25PSI SCOREBOARD STYROFOAM DUPONT	103	EA 8.4 LBS	\$32.00	\$3,296.00
100	113HE974807	4'X300' ROLL HE974 PROTECTION FABRIC GR08 HENRY CO COATING	1	EA 68 LBS	\$319.00	\$319.00
110	104650AF	6"X50' ALUMINUM FLASHING	9	RL	\$29.29	\$263.61

**WHITE CAP****ON ACCOUNT**

187 - Chantilly VA (KCP) (PZ10)  
 3933 Avion Park Ct Unit B114  
 Chantilly, VA, 20151  
 (703) 263-0730

**QUOTE****44892184**

**THIS IS A QUOTE ONLY DO NOT SHIP OR  
 TENDER FUNDS**

**Sold To:** 73743000  
 ARDENT COMPANY LLC  
 PO BOX 879  
 MCLEAN, VA, 22101  
 703-288-3250

**Ship To:** BALLSTON METRO STATION,10002791457  
 4230 FAIRFAX DRIVE  
 ARLINGTON, VA, 22201  
**Job Site Contact:** BIJAY SUBEDI  
**Job Site Phone:** 703-888-9923  
**Map #:**

10:07 AM

**Ordered By:** BIJAY SUBEDI**Contact Phone:** 703-888-9923

Quote Number		Quote Date	Valid Until	Request Date		Sales Person
44892184		11/10/2021	11/24/2021			Power, W
Terms		Shipping Method	Quote Name	Customer PO		Created By
N30D		2. Our Truck		tbd		Tejera, M
SEQ	Part# H/M	Description	Ord Quantity	U/M Unit WT	Price COO	Amount
120	104850AF	8"X50' ALUMINUM FLASHING PRIMESOURCE	9	RL 30 LBS	\$36.00	\$324.00

<b>Shipped amount</b>	<b>\$8,310.76</b>
<b>Order charges</b>	<b>\$0.00</b>
<b>Tax amount</b>	<b>\$491.36</b>
<b>Lumber Tax rate/amount</b>	<b>1.00% \$0.00</b>
<b>Quote total</b>	<b>\$8,802.12</b>

Shipped Weight: **2,379.45** Customer acceptance signature: \_\_\_\_\_ Date : \_\_\_\_\_

ALL ITEMS AND QUANTITIES REQUIRE CUSTOMER REVIEW AND APPROVAL  
 AVAILABILITY AND LEAD TIMES ARE SUBJECT TO CHANGE  
 SPECIAL ORDERED ITEMS ARE SUBJECT TO MANUFACTURER APPROVAL PRIOR TO RETURN.  
 QUOTE IS SUBJECT TO EXPIRATION AS INDICATED IN THE ABOVE 11/24/2021 DATE.

Note: Due to volatility in the steel market from the recent Section 232 decision, domestic supply constraints and active trade negotiations, pricing is subject to change on a daily basis. Please review your pricing and contact your sales associate immediately to secure products and pricing.



# WHITE CAP ON ACCOUNT



187 - Chantilly VA (KCP) (PZ10)  
3933 Avion Park Ct Unit B114  
Chantilly, VA, 20151  
(703) 263-0730

## QUOTE

## 41243396

**THIS IS A QUOTE ONLY DO NOT SHIP OR  
TENDER FUNDS**

**Sold To:** 73743000  
ARDENT COMPANY LLC  
PO BOX 879  
MCLEAN, VA, 22101  
703-288-3250

**Ship To :** BALLSTON METRO STATION,10002791457  
4230 FAIRFAX DRIVE  
ARLINGTON, VA, 22201  
**Job Site Contact:** BIJAY SUBEDI  
**Job Site Phone:** 703-888-9923  
**Map #:**

03:09 PM

**Ordered By:** BIJAY SUBEDI

**Contact Phone:** 703-888-9923

Quote Number		Quote Date	Valid Until	Request Date	Sales Person	
41243396		02/08/2021	03/09/2021		Power, B	
Terms		Shipping Method	Quote Name	Customer PO	Created By	
N30D		2. Our Truck		tbd	Tejera, M	
SEQ	Part# H/M	Description	Ord Quantity	U/M Unit WT	Price COO	Amount
10	457B3000	36"X66' BITUTHENE 3000 MEMBRANE ROLL GCP	4	RL 78 LBS	\$122.00	\$488.00
20	457B2LVC5G  HAZMAT	5GAL PAIL BITUTHENE B2 LVC GREEN CONCRETE PRIMER GCP  Class 3,UN3295,PAIL	1	PL 44 LBS	\$276.00	\$276.00
40	457GBM29OZ	29OZ MASTIC BITUTHENE GCP	15	EA 6.4 LBS	\$14.00	\$210.00
50	457GHD2	4'X50' HYDRODUCT 220 VERTICAL DRAIN GCP	3	RL 45 LBS	\$185.00	\$555.00
60	457GHD660	4'X50' HYDRODUCT 660 HORIZONTAL DRAIN GCP	3	RL 50 LBS	\$254.00	\$762.00
70	457GHDC600	2'X50' HYDRODUCT 600 COIL DRAIN GCP	3	EA 30 LBS	\$245.00	\$735.00
80	179TAL10	ALL PURPOSE TERMINATION BAR HOHMANN AND BARNARD	920	FT .4 LBS	\$0.41	\$377.20
90	635001580	1-1/2"X4'X8' 25PSI SCOREBOARD STYROFOAM DUPONT	103	EA 8.4 LBS	\$22.35	\$2,302.05
100	113HE974807	4'X300' ROLL HE974 PROTECTION FABRIC GR08 HENRY CO COATING	1	EA 68 LBS	\$285.00	\$285.00
110	104650AF	6"X50' ALUMINUM FLASHING	9	RL	\$25.00	\$225.00

# Old Quote for Waterproofing Materials



# WHITE CAP

# ON ACCOUNT



187 - Chantilly VA (KCP) (PZ10)  
3933 Avion Park Ct Unit B114  
Chantilly, VA, 20151  
(703) 263-0730

## QUOTE

## 41243396

**THIS IS A QUOTE ONLY DO NOT SHIP OR  
TENDER FUNDS**

**Sold To:** 73743000  
ARDENT COMPANY LLC  
PO BOX 879  
MCLEAN, VA, 22101  
703-288-3250

**Ship To :** BALLSTON METRO STATION,10002791457  
4230 FAIRFAX DRIVE  
ARLINGTON, VA, 22201  
**Job Site Contact:** BIJAY SUBEDI  
**Job Site Phone:** 703-888-9923  
**Map #:**

03:09 PM

**Ordered By:** BIJAY SUBEDI

**Contact Phone:** 703-888-9923

Quote Number		Quote Date	Valid Until	Request Date	Sales Person	
41243396		02/08/2021	03/09/2021		Power, B	
Terms		Shipping Method	Quote Name	Customer PO	Created By	
N30D		2. Our Truck		tbd	Tejera, M	
SEQ	Part# H/M	Description	Ord Quantity	U/M Unit WT	Price COO	Amount
120	104850AF	8"X50' ALUMINUM FLASHING PRIMESOURCE	9	4 LBS RL 30 LBS	\$27.00	\$243.00

<b>Shipped amount</b>	<b>\$6,458.25</b>
<b>Order charges</b>	<b>\$0.00</b>
<b>Tax amount</b>	<b>\$342.33</b>
<b>Lumber Tax rate/amount</b>	<b>1.00% \$0.00</b>
<b>Quote total</b>	<b>\$6,800.58</b>

Shipped Weight: **2,434.20** Customer acceptance signature: \_\_\_\_\_ Date : \_\_\_\_\_

ALL ITEMS AND QUANTITIES REQUIRE CUSTOMER REVIEW AND APPROVAL  
AVAILABILITY AND LEAD TIMES ARE SUBJECT TO CHANGE  
SPECIAL ORDERED ITEMS ARE SUBJECT TO MANUFACTURER APPROVAL PRIOR TO RETURN.  
QUOTE IS SUBJECT TO EXPIRATION AS INDICATED IN THE ABOVE 03/09/2021 DATE.



## Arban Precast Stone, LTD.

P.O. BOX 761  
DUMFRIES, VA 22026  
PHONE: 703-221-8005  
FAX: 703-445-1195

### AGREEMENT FOR CHANGE ORDER

**DATE:** November 11, 2021

**CHANGE ORDER #** 03

**CONTRACTOR:** Keys Materials & Utilities, Inc.

**ATTENTION:** Bijay

**PROJECT:** Ballston Multimodal Improvements

**JOB NUMBER:** 02026

**DATE OF REQUEST:** 11/9/2021

**PROJECT MANAGER:** Justin x 15

**REASON FOR REQUEST:** Multiple revisions added additional engineering.

**REQUIREMENT:** Revise drawings 6 times on planters 5, 6, 7, 8 from 7/14/2020 to 2/24/21. To include revisions to precast shapes and bearing elevation changes. 8/31/2021 revised stand alone planter grades. Revise planter 9 and 10 to add step downs per County. Engineer hours total 65

**ADDITIONAL COST:** \$4,560.00 tax excluded

**AGREEMENT FOR CHANGE ORDER MUST BE SIGNED AND RETURNED TO ARBAN PRECAST STONE, LTD., TO CONFIRM YOUR ACCEPTANCE OF THE ADDITIONAL COST BEFORE WE WILL PROCEED WITH THIS WORK. PLEASE ISSUE YOUR CHANGE ORDER FOR THE ABOVE AMOUNT.**

\_\_\_\_\_  
Contractor Signature

\_\_\_\_\_  
Allen Macey, President  
Arban Precast Stone, LTD.

\_\_\_\_\_  
Date

\_\_\_\_\_  
Date

**\$8664-4144+4560= \$9080**

**Arban Precast Stone, LTD.**

P.O. BOX 761  
DUMFRIES, VA 22026  
PHONE: 703-221-8005  
FAX: 703-445-1195

**Revised AGREEMENT FOR CHANGE ORDER**

**DATE:** July 1, 2021

**CHANGE ORDER #** 02

**CONTRACTOR:** Keys Materials & Utilities, Inc.

**ATTENTION:** Bijay

**PROJECT:** Ballston Multimodal Improvements

**JOB NUMBER:** 02026

**DATE OF REQUEST:** 6/24/2021

**PROJECT MANAGER:** Justin x 15

**REASON FOR REQUEST:** Supply connection hardware for planters 1, 2, 3, 4 ,9, 10.

**REQUIREMENT:** Supply custom 3/8” hot dipped galvanized bent and flat plate. 3/4” stainless steel all-thread rod, nuts and washers for bent plate.

**ADDITIONAL COST:** \$8,664.00 tax excluded

**AGREEMENT FOR CHANGE ORDER MUST BE SIGNED AND RETURNED TO ARBAN PRECAST STONE, LTD., TO CONFIRM YOUR ACCEPTANCE OF THE ADDITIONAL COST BEFORE WE WILL PROCEED WITH THIS WORK. PLEASE ISSUE YOUR CHANGE ORDER FOR THE ABOVE AMOUNT.**

\_\_\_\_\_  
**Contractor Signature**

\_\_\_\_\_  
**Allen Macey, President  
Arban Precast Stone, LTD.**

\_\_\_\_\_  
**Date**

\_\_\_\_\_  
**Date**

# Old Quote for Planter Hardwares

## Arban Precast Stone, LTD.

P.O. BOX 761  
DUMFRIES, VA 22026  
PHONE: 703-221-8005  
FAX: 703-445-1195

### Revised AGREEMENT FOR CHANGE ORDER

**DATE:** February 22, 2021

**CHANGE ORDER #** 01

**CONTRACTOR:** Keys Materials & Utilities, Inc.

**ATTENTION:** Bijay

**PROJECT:** Ballston Multimodal Improvements

**JOB NUMBER:** 02026

**DATE OF REQUEST:** 2/5/2021

**PROJECT MANAGER:** Justin x 15

**REASON FOR REQUEST:** Supply connection hardware for planters 5, 6, 7, 8.

**REQUIREMENT:** Supply custom 3/8" hot dipped galvanized bent plate and 3/4" stainless steel all-thread rod, nuts and washers for bent plate.

**ADDITIONAL COST:** \$4,144.00 tax excluded

**AGREEMENT FOR CHANGE ORDER MUST BE SIGNED AND RETURNED TO ARBAN PRECAST STONE, LTD., TO CONFIRM YOUR ACCEPTANCE OF THE ADDITIONAL COST BEFORE WE WILL PROCEED WITH THIS WORK. PLEASE ISSUE YOUR CHANGE ORDER FOR THE ABOVE AMOUNT.**

\_\_\_\_\_  
**Contractor Signature**

\_\_\_\_\_  
**Allen Macey, President  
Arban Precast Stone, LTD.**

\_\_\_\_\_  
**Date**

\_\_\_\_\_  
**Date**



P.O. BOX 311 • 210 E. HOCHHEIM ST., YOAKUM, TEXAS 77995  
(361)293-6452 FAX(361)293-9175 EMAIL: mechx@sbcglobal.net

Customer

**Ardent Company, LLC**

PO Box 879, McLean, VA 22101

Phone: 703.288.3250 Ext 210

Estimating Fax: 703.552-7650

[Bids@ardentcompany.com](mailto:Bids@ardentcompany.com)

12/7/2021

**SALES QUOTE**QUOTE NO. **120721**

Product	Quantity	Price	Total
<b>MODULAR GROUPING OF NEWSRACKS - 2 GROUPINGS OF 6 RACKS</b> INCLUDES:			
MODEL 49TK NEWSRACKS(\$540.29) WITH \$3 WHEEL COIN MECH(\$280.69)	3	\$820.98	\$2,462.94
MODEL 49DW2 FREE DISTRIBUTION RACK(WITH 2 DOORS)(\$425.52)	4	\$425.52	\$1,702.08
MODEL 49H FREE DISTRIBUTION RACK(\$441.01)	5	\$441.01	\$2,205.05
DOME TOP(\$96.78)	6	\$96.78	\$580.68
PEDESTAL 15 1/4" HIGH(\$154.88)	4	\$154.88	\$619.52
TRAY 72 3/4" WIDE(\$271.66)	2	\$271.66	\$543.32

Notes

SHIPPING TO ZIP 22201

LEAD TIME 4-6 WEEKS

QUOTE GOOD FOR 30 DAYS

**Sub Total**

\$8,113.59

**Estimated Freight**

\$652.12

**Tax****Total US Dollars****\$8,765.71**Quoted By: Jeffrey Card

Thank you

# M.E.R. INC.

Mechanism Exchange & Repair, Inc.

P.O. BOX 311 • 210 E. HOCHHEIM ST., YOAKUM, TEXAS 77995  
 (361)293-6452 FAX(361)293-9175 EMAIL: mechx@sbcglobal.net

Customer

## Ardent Company, LLC

PO Box 879, McLean, VA 22101

Phone: 703.288.3250 Ext 210

Estimating Fax: 703.552-7650

[Bids@ardentcompany.com](mailto:Bids@ardentcompany.com)

2/27/2020

## SALES QUOTE

QUOTE NO. **22720**

Product	Quantity	Price	Total
<b>MODULAR GROUPING OF NEWSRACKS - 2 GROUPINGS OF 6 RACKS</b> INCLUDES:			
MODEL 49TK NEWSRACKS(\$419.81) WITH \$3 WHEEL COIN MECH(\$218.09)	3	\$637.90	\$1,913.70
MODEL 49DW2 FREE DISTRIBUTION RACK(WITH 2 DOORS)(\$330.64)	4	\$330.64	\$1,322.56
MODEL 49H FREE DISTRIBUTION RACK(\$342.66)	5	\$342.66	\$1,713.30
DOME TOP(\$75.20)	6	\$75.20	\$451.20
PEDESTAL 15 1/4" HIGH(\$120.34)	4	\$120.34	\$481.36
TRAY 72 3/4" WIDE(\$211.08)	2	\$211.08	\$422.16

Notes

**SHIPPING TO ZIP 22201**

**LEAD TIME 4-6 WEEKS**

**QUOTE GOOD FOR 30 DAYS**

<b>Sub Total</b>	\$6,304.28
<b>Estimated Freight</b>	\$652.12
<b>Tax</b>	
<b>Total US Dollars</b>	<b>\$6,956.40</b>

Quoted By: Jeffrey Card

Thank you

# New Quote for Bicycle Rack



**DERO**  
A PLAYCORE Company

42 Northern Stacks Dr, Ste 100,  
MINNEAPOLIS, MN, 55421

Tax Registration No 26-303-0026  
www.dero.com  
(612) 359-0689 \* (888) 337-6729

Sales Representative - Daniel Clark

Contact Name  
Contact Phone  
Est. Ship Date 3/1/2019  
Delivery terms FOB origin  
Payment terms Net 30 days  
Delivery Contact  
Delivery Phone

## Quotation

Page 1 of 1  
Number QTE-00055549-3  
Date 11/22/2019  
Customer PO  
Reference Ballston Metro  
Improvements  
Quote valid until 12/22/2019

**Sold to:**

Ardent Company  
PO Box 879  
McLean, VA 22101  
USA

**Ship to:**

Ardent Company  
ARLINGTON, VA 22201  
USA

Catalog No	Description	Ship date	Quantity	Unit	Net Unit	Amount
HRHD-A	Inground Mount, Powder Coated, Gloss Black	11/22/2019	39.00	EA	141.000	5,499.00

To place the order, verify that all billing, shipping, and order information is correct. Then sign and date below and email back to your sales rep or to sales@dero.com. We will e-mail you an order confirmation once your order has been processed.

THE SHIP DATE IS AN ESTIMATE ONLY. We will do everything possible to ship by or before that date but do not guarantee shipment by that date.  
PRICING: Quote is good for 30 days. Pricing is subject to change. Orders shipping more than 6 months from date of placement are subject to a minimum 5% escalation fee per year.

CANCELLATION: A 20% restocking fee will be assessed to all canceled orders.

TAXES: Sales tax is estimated based on current tax rates. Final sales tax is subject to tax rates at the time of shipment. Please notify us immediately if your order is exempt from sales tax.

Payments can be made by credit card, pre-payment, or Net 30 credit terms may be issued with credit approval.

Customer please specify desired ship date: \_\_\_\_\_

Signature & Date:

\_\_\_\_\_  
THIS SIGNED ORDER FORM IS ACCEPTED AS A BINDING PURCHASE

New price is 163/each

Sales Subtotals	Freight	Other Charges	Sales Tax
5,499.00	516.00	549.90	362.93

<b>TOTAL</b>	<b>USD</b>	<b>\$6,927.83</b>
--------------	------------	-------------------

# Backhoe Rental for 1 month

## 2 items in your cart

Please complete 2 reservations

Reservation 1 1 Item ARDENT COMPANY LLC 857212



Cat Class: 302-1020  
**Backhoe Loader, 60-90 HP, 4WD**

QTY: 1 at ~ \$3,037 each  
Duration: 12/08/2021 - 01/07/2022

[Edit](#) [Delete](#) [Save for Later](#)

WEB RATE \$3,037

- 1. Jobsite
- 2. Delivery & Pickup
- 3. Billing

1 Backhoe Loader, 60-90 HP, 4WD	\$3,037.00
Deliver to Jobsite	\$200.50
UR Pickup	\$200.50
Environmental Fee	\$60.74
Misc. Charges	\$60.74
<b>Estimated Cost</b>	<b>\$3,559.48</b>

**JOB SITE** 8340 BALTIMORE AVE **Contact**  
 8340 BALTIMORE AVE LEO PINEDA  
 COLLEGE PARK, MD 20740 (703) 677-7665  
 LEO@ARDENTCOMPANY.COM

[Edit](#)

### RECEIVE

How would you like to receive your equipment?

Deliver to Jobsite (\$200)



Delivery Date

12/08/2021



Delivery Time

Select a time



### RETURN

How would you like to return your equipment?

Request Pick-up Later (\$200)



Drop Off Date

01/07/2022



Time

Select a time



**Note: To stop your rental, you must request pick-up through either the website or by contacting Customer Care. Actual charges may vary based upon the final date and time of your equipment return.**

Delivery Instructions (optional)

Enter any delivery instructions

[Save & Continue](#)

### Exclusive rates, only online.



Rent online to access your negotiated contract rates and exclusive web rates on all your rentals.



< [Back to Pickup/Delivery \(/checkout/pickup-delivery/\)](#)

Step 2/2

# Order Review

### Your Account Information [Edit \(/checkout/pickup-delivery/\)](#)

463493  
ARDENT COMPANY LLC

### Your Store [Edit \(/checkout/pickup-delivery/\)](#)

**Gaithersburg Branch #156**  
General Tool & Equipment  
18900 Earhart Ct  
Gaithersburg, MD 20879 5509  
(301) 948-8808

**Manager:** Andre Dessenberg  
pcm156@sunbeltrentals.com

### Job Site Location [Edit \(/checkout/pickup-delivery/\)](#)

**Deliver to:**  
1485 CHAIN BRIDGE ROAD  
MCLEAN, VA 22101 4501

### Job Site Contact

### Purchase Order Number

ADD PO#

### Additional Email Recipients

ADD

### Rental Duration [Edit \(/checkout/your-cart/\)](#)

**Start:** Wednesday, December 08 @ 6:00 AM  
**End:** Friday, January 07 @ 5:00 PM

### Equipment



**9,500lb Mini Excavator Cab**  
\$3,750/unit

[Remove](#)

- 1 QTY +

\$3,750

<b>Equipment Subtotal</b>	<b>\$3,750</b>
Delivery	\$165
Pickup	\$165
Sunbelt Rentals Environmental Fee	-
Transportation Surcharge	\$57.75
<input type="checkbox"/> Rental Protection Plan (Optional) <small>Protect yourself. <a href="#">Learn more about RPP (/environmentalfee/)</a></small>	\$562.50
<input type="checkbox"/> Fuel Convenience Plan (Optional) <small>No hassle. <a href="#">Learn more about Fuel Convenience (/environmentalfee/)</a></small>	-
Environmental/Hazmat Fee 2133Xxx0000	\$73.12

<b>Rental Subtotal</b>	<b>\$4,773.37</b>
Sales Tax	\$266.61

**Estimated Total (USD)\* \$5,039.98**

I agree to Sunbelt Rentals [Terms & Conditions \(/about/terms-and-conditions/\)](#)  
Required.

\*All prices will be double-checked by an equipment Rental Specialist at a location near you. We'll be in touch shortly with a confirmation call.





[Pickup/Delivery](#) (/checkout/pickup-delivery/)

**2** Order Review

[Back to Pickup/Delivery](#) (/checkout/pickup-delivery/)

Step 2/2

## Order Review

### Your Account Information [Edit](#)

(/checkout/pickup-delivery/)

463493  
ARDENT COMPANY LLC

### Your Store [Edit](#) (/checkout/pickup-

delivery/)

**McLean Branch #150**  
General Tool & Equipment

1552 Spring Hill Rd  
McLean, VA 22102 3004  
(703) 356-6262

**Manager:** Stephen Mills  
pcm150@sunbeltrentals.com

### Job Site Location [Edit](#)

(/checkout/pickup-delivery/)

**Deliver to:**  
1485 CHAIN BRIDGE ROAD  
MCLEAN, VA 22101 4501

**Job Site Contact**

### Purchase Order Number

**ADD PO#**

### Additional Email Recipients

Email Address (Optional)

[ADD](#)

### Rental Duration [Edit](#) (/checkout/your-cart/)

**Start:** Wednesday, December 08 @ 6:00 AM

**End:** Tuesday, January 04 @ 5:00 PM

### Equipment



**1500-2000lb Skidsteer**

\$1,860/unit

[Remove](#)

- 1 QTY +\$1,860

<b>Equipment Subtotal</b>	<b>\$1,860</b>
Delivery	\$135
Pickup	\$135
Sunbelt Rentals Environmental Fee	—
Transportation Surcharge	\$47.25
<input type="checkbox"/> Rental Protection Plan (Optional)	\$279
Protect yourself. <a href="#">Learn more about RPP</a> . (/environmentalfee/)	
<input type="checkbox"/> Fuel Convenience Plan (Optional)	—
No hassle. <a href="#">Learn more about Fuel Convenience</a> . (/environmentalfee/)	
Environmental/Hazmat Fee 2133Xxx0000	\$36.27
Fairfax 1% Short Term Rental Tax	\$18.60

<b>Rental Subtotal</b>	<b>\$2,511.12</b>
Sales Tax	\$133.36

<b>Estimated Total (USD)*</b>	<b>\$2,644.48</b>
-------------------------------	-------------------

[CONFIRM RESERVATION](#)