

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

**AMENDMENT NUMBER 3**

This **Amendment Number 3** is made on 4/1/2022 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) 8-9 PER ATTACHMENT K** with a total amount of \$193,391 as follows:  
 CO8 : \$16,452.00  
 CO9: \$176,939.00

**Total Construction Cost is hereby increased to \$5,240,597.88**

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

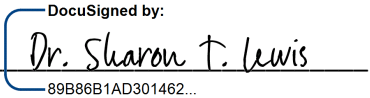
WITNESS these signatures:

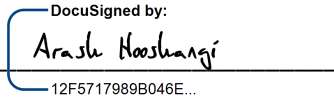
THE COUNTY BOARD OF ARLINGTON  
COUNTY, VIRGINIA

ARDENT COMPANY, LLC

PRINT: Dr. Sharon T. Lewis

PRINT: Arash Hooshangi

SIGNATURE:   
89B86B1AD301462...

SIGNATURE:   
12F5717989B046E...

TITLE: Purchasing Agent

TITLE: Managing Director

DATE: 4/1/2022

DATE: 4/1/2022

## **CO 08 Backup Documentation**

**CO 08 Includes:**

- **PCO 20 – Relocation and Replacement of Existing Fire Hydrant**

- Section A. Memorandum of Negotiations**  
**Section B. Itemized Final Negotiation Breakdown (PCO 20)**  
**Section C. Pencil Copy (working) Markups for Each Party's Estimate (PCO 20)**  
**Section D. Original Party Estimates (PCO 20)**  
**Section E. Backup Documentation**



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

**CHANGE ORDER No. 08 – Add one (1) new item: Relocation and Replacement of Existing Fire Hydrant.**

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

**DATE:** 01/15/22

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

Amount: \$16,452.00

Date: 01/12/22

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

Amount: \$16,678.00

Date: 01/07/22

- 5. **NEGOTIATIONS:**

Amount: New Items (1)

\$16,452.00

Date: 01/15/22

**6. REMARKS:**

Item No. 1 (PCO 20) – Relocation and Replacement of Existing Fire Hydrant (New Item):

- Reason for Change Order: Due to the redesign of N. Stuart St., the CR-4 and SD Inlet (Structure No. 2) were moved northward toward Fairfax Drive. The relocated SD inlet and its 15-in. connect RCP would conflict with the fire hydrant lead pipe, and the existing fire hydrant would be located 5 ft. away from the face of proposed curb which is not per County WSS standard. After further coordination with Arlington County's WSS department and in response to RFI No. 42 on 11/09/21, Parsons (Designer) decided to relocate and replace the existing fire hydrant to the south of the SD inlet to avoid any conflict and provide required clearances per Arlington County Standard W-7.0. A price proposal was requested from Ardent to include the cost of the relocation and replacement of existing fire hydrant.
- Negotiation Recap: Held 01/15/22: 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 new item: Arlington County Estimate (ACE) = \$16,452.00; Contractor's Proposal (CP) = \$16,678.00.

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

- (1) The CP inadvertently calculated \$200 in extra cost for the concrete.

Based on these acknowledgements, the CP and ACE agreed on a cost and that vendor quotes would be used for the materials estimate and sub-contractor. As a result, the parties arrived at a Lump Sum (LS) price of \$16,452.00 with a 0 CD extension of the contract duration.

| Summary of Negotiations | Arlington County Estimate | Contractor's Proposal | Negotiated Price   |
|-------------------------|---------------------------|-----------------------|--------------------|
| Add 1 New Item          | \$16,678.00               | \$16,452.00           | <b>\$16,452.00</b> |

The negotiations of 01/15/22 resulted in all parties agreeing to the same Lump Sum (LS) price for the one (1) new contract item.

Based upon the findings, it is recommended that a change order be issued to Ardent for a lump sum amount of \$16,452.00 with a 0 CD extension of the contract duration. The following find the price to be fair and reasonable for the work involved.

*A. Hooshangi*

Arash Hooshangi, Ardent President

1/19/2022

Date

*S. Salihi*

Sekander Salihi, EIT, STV Resident Engineer

01/19/22

Date

*Dara Soum*

Dara Soum, PE, Arlington County Project Manager

1/20/22

Date



**Section B. Itemized Final Negotiation Breakdown (PCO 20)**

# ARDENT



## STV/County Independent Cost Estimate, 01/12/22

Ballston-MU Station Area Improvements Project  
Arlington County, VA

**PCO-20 Fire Hydrant Relocation**

**Description of Change;**

Based on N.Stuart St redesign, existing fire hydrant need to be relocated and replaced with new fire hydrant.

| Task Description     | Quantity | Hours | Unit | Rate    | Subtotals         | Comments                               |
|----------------------|----------|-------|------|---------|-------------------|--|
| <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)  | 3.00     | 16.00 | Hrs. | \$21.00 | \$1,008.00        |  |
| 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: |          |       |      |         | \$1,968.00        |  |
| Ind. Labor           |          |       |      |         | 15.15%            | \$298.15 15.15% payroll burden         |
| Subtotal Labor:      |          |       |      |         | \$2,266.15        |  |
| O&P                  |          |       |      |         | 0.00%             | \$0.00 O&P is on Base + Indirect Labor |
| <b>TOTAL LABOR</b>   |          |       |      |         | <b>\$2,266.15</b> |  |

| EQUIPMENT               | Quantity | Hours | Unit | Rate     | Subtotals         | Comments              |
|-------------------------|----------|-------|------|----------|-------------------|-----------------------|
| Excavator               | 0.00     | 0.00  | Hrs. | \$115.85 | \$0.00            |                       |
| Backhoe                 | 1.00     | 16.00 | Hrs. | \$35.76  | \$572.16          |                       |
| Skid Steer              | 1.00     | 16.00 | Hrs. | \$29.63  | \$474.08          |                       |
| 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     | 8.00  | Hrs. | \$31.26  | \$250.08          | no service truck used |
| Pickup Truck            | 1.00     | 16.00 | Hrs. | \$28.26  | \$452.16          |                       |
| Subtotal Equipment:     |          |       |      |          | \$1,938.00        |                       |
| O&P                     |          |       |      |          | 0.00%             | \$0.00                |
| <b>TOTAL EQUIPMENT:</b> |          |       |      |          | <b>\$1,938.00</b> |                       |

| MATERIAL                | Quantity | Supplier    | Unit | Unit \$    | Subtotals         | Comments                 |
|-------------------------|----------|-------------|------|------------|-------------------|--------------------------|
| Waterline Materials     | 1.00     | see comment | LS   | \$5,056.41 | \$5,056.41        | Supplier (Ferguson)      |
| Trench Box              | 1.00     | see comment | LS   | \$877.00   | \$877.00          | Supplier (United Rental) |
| Stone                   | 37.04    |             | TON  | \$21.50    | \$796.36          |                          |
| Dump Fee                | 2.00     |             | EA   | \$190.00   | \$380.00          |                          |
| Waterpumping            | 1.00     | see comment | LS   | \$618.29   | \$618.29          | Supplier (United Rental) |
| Forms and Miscellaneous | 1.00     |             | LS   | \$100.00   | \$100.00          |                          |
| Mix Bagged Concrete     | 1.00     |             | LS   | \$100.00   | \$100.00          |                          |
| Subtotal Material:      |          |             |      |            | \$7,928.06        |                          |
| Price +6% Tax           |          |             |      |            | \$8,403.74        |                          |
| O&P                     |          |             |      |            | 0.00%             | \$0.00                   |
| <b>TOTAL MATERIAL</b>   |          |             |      |            | <b>\$8,403.74</b> |                          |

| SUBCONTRACTOR           | Quant. (in Day) | Hrs  | Unit \$  | Subtotals         | Comments                  |
|-------------------------|-----------------|------|----------|-------------------|---------------------------|
| Stakes and Asbuilt      | 1.00            |      | \$750.00 | \$750.00          | Sub (Liggie Surveys)      |
| Trucking                | 1.00            | 9    | \$75.00  | \$675.00          | Sub (Trucking)            |
| Concrete and Compaction | 1.00            |      | \$350.00 | \$350.00          | Sub (Dulles Geotechnical) |
| Testing                 |                 | 0.00 | \$0.00   | \$0.00            |                           |
|                         |                 | 0.00 | \$0.00   | \$0.00            |                           |
| Subtotal Sub:           |                 |      |          | \$1,775.00        |                           |
| O&P                     |                 |      |          | 10.00%            | \$177.50                  |
| <b>TOTAL SUB</b>        |                 |      |          | <b>\$1,952.50</b> |                           |

|                       |                     |
|-----------------------|---------------------|
| SUBTOTAL L+E+M:       | \$12,607.90         |
| Bond                  | 15.00%              |
| <b>TOTAL L+E+M+S:</b> | <b>\$16,451.58</b>  |
| Roundup Each (Unit):  | \$16,452.00         |
| Total Each (Unit):    | 1                   |
| <b>CO TOTAL:</b>      | <b>\$ 16,452.00</b> |

Created by: S. Salihi, E.I.T, Resident Engineer,  
Checked by: A. Ronca, PE, 01/15/22

1. 2 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 20)**



Ardent Job: 193-20

January 7, 2022

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 for the relocation and replacement of existing fire hydrant in a different location with new fire hydrant.

| Item#                               | Description             | Qty | Unit | Unit Price  | Total               | Remarks |
|-------------------------------------|-------------------------|-----|------|-------------|---------------------|---------|
| CO8-1                               | Relocate Fire Hydrant ✓ | 1 ✓ | EA   | \$16,678.00 | \$16,678.00         | 2 Days  |
| <b>Total Net Change to Contract</b> |                         |     |      |             | <b>\$ 16,678.00</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 Relocation of Fire Hydrant

### 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       |
|-------------------------------|------|----------------|--------------|---------------|-------------|-------------|
| 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                  | 1    | 8              | 0            | \$ 23.69      |             | \$ 189.52   |
| Service Truck                 | 1    | 8              | 0            | \$ 31.26      |             | \$ 250.08   |
| Sweeper                       | 0    | 8              | 0            | \$ 27.16      |             | \$ -        |
| Total                         |      |                |              |               |             | \$ 1,938.00 |

#### Material

| Material                | Supplier       | Quantity | Unit | Unit Price  | Unit Price + Tax | Total       |
|-------------------------|----------------|----------|------|-------------|------------------|-------------|
| Waterline Materials     | Ferguson       | 1        | LS   | \$ 5,056.41 | \$ 5,359.79      | \$ 5,359.79 |
| Trench Box              |                | 1        | LS   | \$ 877.00   | \$ 929.62        | \$ 929.62   |
| Stone                   |                | 37.04    | TON  | \$ 21.50    | \$ 22.79         | \$ 844.14   |
| Dump Fee                |                | 2        | EA   | \$ 190.00   | \$ 201.40        | \$ 402.80   |
| Waterpumping            | United Rentals | 1        | LS   | \$ 618.29   | \$ 655.39        | \$ 655.39   |
| Forms and miscellaneous |                | 1        | LS   | \$ 100.00   | \$ 106.00        | \$ 106.00   |
| Mix Bagged Concrete     |                | 1        | LS   | \$ 100.00   | \$ 106.00        | \$ 106.00   |
| Total                   |                |          |      |             |                  | \$ 8,603.75 |

#### Subcontractor

| Work                            | Sub Contractor      | Day | Hours | Rate     | Lump Sum        | Total       |
|---------------------------------|---------------------|-----|-------|----------|-----------------|-------------|
| Stakes and Asbuilts             | Liggie Surveys      | 1   |       |          | \$ 750.00       | \$ 750.00   |
| Trucking                        |                     | 1   | 9     | \$ 75.00 |                 | \$ 675.00   |
| Concrete and Compaction Testing | Dulles Geotechnical | 1   |       |          | \$ 350.00       | \$ 350.00   |
|                                 |                     |     |       |          | Allowance (10%) | \$ 177.50   |
| Total                           |                     |     |       |          |                 | \$ 1,952.50 |

|  |                     |
|--|---------------------|
| Base Cost (Labor + Equipment + Material) | \$ 12,804.00        |
| Base Cost Overhead and Profit (15%)      | \$ 1,920.60         |
| Subcontractor Cost Inc Overhead (10%)    | \$ 1,952.50         |
| <b>Total</b>                             | <b>\$ 16,678.00</b> |

1

AR/SS  
01,14,2022

# ARDENT



## STV/County Independent Cost Estimate, 01/12/22

Ballston-MU Station Area Improvements Project  
Arlington County, VA

PCO-20 Fire Hydrant Relocation

**Description of Change;**

Based on N,Stuart St redesign, existing fire hydrant need to be relocated and replaced with new fire hydrant.

| Task Description     | Quantity | Hours | Unit | Rate    | Subtotals         | Comments                        |
|----------------------|----------|-------|------|---------|-------------------|---------------------------------|
| <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)  | 3.00     | 16.00 | Hrs. | \$21.00 | \$1,008.00        |                                 |
| 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: |          |       |      |         | \$1,968.00        |                                 |
| Ind. Labor 15.15%    |          |       |      |         | \$298.15          | 15.15% payroll burden           |
| Subtotal Labor:      |          |       |      |         | \$2,266.15        |                                 |
| O&P 0.00%            |          |       |      |         | \$0.00            | O&P is on Base + Indirect Labor |
| <b>TOTAL LABOR</b>   |          |       |      |         | <b>\$2,266.15</b> |                                 |

| EQUIPMENT               | Quantity | Hours | Unit | Rate     | Subtotals         | Comments              |
|-------------------------|----------|-------|------|----------|-------------------|-----------------------|
| Excavator               | 0.00     | 0.00  | Hrs. | \$115.85 | \$0.00            |                       |
| Backhoe                 | 1.00     | 16.00 | Hrs. | \$35.76  | \$572.16          |                       |
| Skid Steer              | 1.00     | 16.00 | Hrs. | \$29.63  | \$474.08          |                       |
| 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     | 8.00  | Hrs. | \$31.26  | \$250.08          | no service truck used |
| Pickup Truck            | 1.00     | 16.00 | Hrs. | \$28.26  | \$452.16          |                       |
| Subtotal Equipment:     |          |       |      |          | \$1,938.00        |                       |
| O&P 0.00%               |          |       |      |          | \$0.00            |                       |
| <b>TOTAL EQUIPMENT:</b> |          |       |      |          | <b>\$1,938.00</b> |                       |

| MATERIAL                | Quantity | Supplier    | Unit | Unit \$    | Subtotals         | Comments                 |
|-------------------------|----------|-------------|------|------------|-------------------|--------------------------|
| Waterline Materials     | 1.00     | see comment | LS   | \$5,056.41 | \$5,056.41        | Supplier (Ferguson)      |
| Trench Box              | 1.00     | see comment | LS   | \$877.00   | \$877.00          | Supplier (United Rental) |
| Stone                   | 37.04    |             | TON  | \$21.50    | \$796.36          |                          |
| Dump Fee                | 2.00     |             | EA   | \$190.00   | \$380.00          |                          |
| Waterpumping            | 1.00     | see comment | LS   | \$618.29   | \$618.29          | Supplier (United Rental) |
| Forms and Miscellaneous | 1.00     |             | LS   | \$100.00   | \$100.00          |                          |
| Mix Bagged Concrete     | 1.00     |             | LS   | \$100.00   | \$100.00          |                          |
| Subtotal Material:      |          |             |      |            | \$7,928.06        |                          |
| Price +6% Tax           |          |             |      |            | \$8,403.74        |                          |
| O&P 0.00%               |          |             |      |            | \$0.00            |                          |
| <b>TOTAL MATERIAL</b>   |          |             |      |            | <b>\$8,403.74</b> |                          |

| SUBCONTRACTOR           | Quant. (in Day) | Hrs | Unit \$  | Subtotals         | Comments                  |
|-------------------------|-----------------|-----|----------|-------------------|---------------------------|
| Stakes and Asbuilt      | 1.00            | 9   | \$750.00 | \$750.00          | Sub (Liggie Surveys)      |
| Trucking                | 1.00            | 9   | \$75.00  | \$675.00          | Sub (Trucking)            |
| Concrete and Compaction | 1.00            |     | \$350.00 | \$350.00          | Sub (Dulles Geotechnical) |
| Testing                 |                 |     |          | \$0.00            |                           |
|                         | 0.00            |     | \$0.00   | \$0.00            |                           |
|                         | 0.00            |     | \$0.00   | \$0.00            |                           |
| Subtotal Sub:           |                 |     |          | \$1,775.00        |                           |
| O&P 10.00%              |                 |     |          | \$177.50          |                           |
| <b>TOTAL SUB</b>        |                 |     |          | <b>\$1,952.50</b> |                           |

|                       |                     |
|-----------------------|---------------------|
| SUBTOTAL L+E+M:       | \$12,607.90         |
| Bond 15.00%           | \$1,891.18          |
| <b>TOTAL L+E+M+S:</b> | <b>\$16,451.58</b>  |
| Roundup Each (Unit):  | \$16,452.00         |
| Total Each (Unit):    | 1                   |
| <b>CO TOTAL:</b>      | <b>\$ 16,452.00</b> |

Created by: S. Salihi, E.I.T, Resident Engineer,  
Checked by: A. Ronca, PE, 01/12/22

1. 2 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 Estimates (PCO 20)**



Ardent Job: 193-20

January 7, 2022

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 for the relocation and replacement of existing fire hydrant in a different location with new fire hydrant.

| Item#                               | Description           | Qty | Unit | Unit Price  | Total               | Remarks |
|-------------------------------------|-----------------------|-----|------|-------------|---------------------|---------|
| CO8-1                               | Relocate Fire Hydrant | 1   | EA   | \$16,678.00 | \$16,678.00         | 2 Days  |
| <b>Total Net Change to Contract</b> |                       |     |      |             | <b>\$ 16,678.00</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 Relocation of Fire Hydrant

### 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       |
|-------------------------------|------|----------------|--------------|---------------|-------------|-------------|
| 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                  | 1    | 8              | 0            | \$ 23.69      |             | \$ 189.52   |
| Service Truck                 | 1    | 8              | 0            | \$ 31.26      |             | \$ 250.08   |
| Sweeper                       | 0    | 8              | 0            | \$ 27.16      |             | \$ -        |
| Total                         |      |                |              |               |             | \$ 1,938.00 |

#### Material

| Material                | Supplier       | Quantity | Unit | Unit Price  | Unit Price + Tax | Total       |
|-------------------------|----------------|----------|------|-------------|------------------|-------------|
| Waterline Materials     | Ferguson       | 1        | LS   | \$ 5,056.41 | \$ 5,359.79      | \$ 5,359.79 |
| Trench Box              |                | 1        | LS   | \$ 877.00   | \$ 929.62        | \$ 929.62   |
| Stone                   |                | 37.04    | TON  | \$ 21.50    | \$ 22.79         | \$ 844.14   |
| Dump Fee                |                | 2        | EA   | \$ 190.00   | \$ 201.40        | \$ 402.80   |
| Waterpumping            | United Rentals | 1        | LS   | \$ 618.29   | \$ 655.39        | \$ 655.39   |
| Forms and miscellaneous |                | 1        | LS   | \$ 100.00   | \$ 106.00        | \$ 106.00   |
| Mix Bagged Concrete     |                | 1        | LS   | \$ 100.00   | \$ 106.00        | \$ 306.00   |
| Total                   |                |          |      |             |                  | \$ 8,603.75 |

#### Subcontractor

| Work                            | Sub Contractor      | Day | Hours | Rate     | Lump Sum        | Total       |
|---------------------------------|---------------------|-----|-------|----------|-----------------|-------------|
| Stakes and Asbuilts             | Liggie Surveys      | 1   |       |          | \$ 750.00       | \$ 750.00   |
| Trucking                        |                     | 1   | 9     | \$ 75.00 |                 | \$ 675.00   |
| Concrete and Compaction Testing | Dulles Geotechnical | 1   |       |          | \$ 350.00       | \$ 350.00   |
|                                 |                     |     |       |          | Allowance (10%) | \$ 177.50   |
| Total                           |                     |     |       |          |                 | \$ 1,952.50 |

|   |                     |
|---|---------------------|
| <b>Base Cost (Labor + Equipment + Material)</b> | <b>\$ 12,804.00</b> |
| <b>Base Cost Overhead and Profit (15%)</b>      | <b>\$ 1,920.60</b>  |
| <b>Subcontractor Cost Inc Overhead (10%)</b>    | <b>\$ 1,952.50</b>  |
| <b>Total</b>                                    | <b>\$ 16,678.00</b> |

# ARDENT



## STV/County Independent Cost Estimate, 01/12/22

Ballston-MU Station Area Improvements Project  
Arlington County, VA

**PCO-20 Fire Hydrant Relocation**

**Description of Change;**

Based on N.Stuart St redesign, existing fire hydrant need to be relocated and replaced with new fire hydrant.

| Task Description     | Quantity | Hours | Unit | Rate    | Subtotals         | Comments                               |
|----------------------|----------|-------|------|---------|-------------------|--|
| <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)  | 3.00     | 16.00 | Hrs. | \$21.00 | \$1,008.00        |  |
| 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: |          |       |      |         | \$1,968.00        |  |
| Ind. Labor           |          |       |      |         | 15.15%            | \$298.15 15.15% payroll burden         |
| Subtotal Labor:      |          |       |      |         | \$2,266.15        |  |
| O&P                  |          |       |      |         | 0.00%             | \$0.00 O&P is on Base + Indirect Labor |
| <b>TOTAL LABOR</b>   |          |       |      |         | <b>\$2,266.15</b> |  |

| EQUIPMENT               | Quantity | Hours | Unit | Rate     | Subtotals         | Comments              |
|-------------------------|----------|-------|------|----------|-------------------|-----------------------|
| Excavator               | 0.00     | 0.00  | Hrs. | \$115.85 | \$0.00            |                       |
| Backhoe                 | 1.00     | 16.00 | Hrs. | \$35.76  | \$572.16          |                       |
| Skid Steer              | 1.00     | 16.00 | Hrs. | \$29.63  | \$474.08          |                       |
| 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     | 8.00  | Hrs. | \$31.26  | \$250.08          | no service truck used |
| Pickup Truck            | 1.00     | 16.00 | Hrs. | \$28.26  | \$452.16          |                       |
| Subtotal Equipment:     |          |       |      |          | \$1,938.00        |                       |
| O&P                     |          |       |      |          | 0.00%             | \$0.00                |
| <b>TOTAL EQUIPMENT:</b> |          |       |      |          | <b>\$1,938.00</b> |                       |

| MATERIAL                | Quantity | Supplier    | Unit | Unit \$    | Subtotals         | Comments                 |
|-------------------------|----------|-------------|------|------------|-------------------|--------------------------|
| Waterline Materials     | 1.00     | see comment | LS   | \$5,056.41 | \$5,056.41        | Supplier (Ferguson)      |
| Trench Box              | 1.00     | see comment | LS   | \$877.00   | \$877.00          | Supplier (United Rental) |
| Stone                   | 37.04    |             | TON  | \$21.50    | \$796.36          |                          |
| Dump Fee                | 2.00     |             | EA   | \$190.00   | \$380.00          |                          |
| Waterpumping            | 1.00     | see comment | LS   | \$618.29   | \$618.29          | Supplier (United Rental) |
| Forms and Miscellaneous | 1.00     |             | LS   | \$100.00   | \$100.00          |                          |
| Mix Bagged Concrete     | 1.00     |             | LS   | \$100.00   | \$100.00          |                          |
| Subtotal Material:      |          |             |      |            | \$7,928.06        |                          |
| Price +6% Tax           |          |             |      |            | \$8,403.74        |                          |
| O&P                     |          |             |      |            | 0.00%             | \$0.00                   |
| <b>TOTAL MATERIAL</b>   |          |             |      |            | <b>\$8,403.74</b> |                          |

| SUBCONTRACTOR           | Quant. (in Day) | Hrs  | Unit \$  | Subtotals         | Comments                  |
|-------------------------|-----------------|------|----------|-------------------|---------------------------|
| Stakes and Asbuilt      | 1.00            |      | \$750.00 | \$750.00          | Sub (Liggie Surverys)     |
| Trucking                | 1.00            | 9    | \$75.00  | \$675.00          | Sub (Trucking)            |
| Concrete and Compaction | 1.00            |      | \$350.00 | \$350.00          | Sub (Dulles Geotechnical) |
| Testing                 |                 | 0.00 | \$0.00   | \$0.00            |                           |
|                         |                 | 0.00 | \$0.00   | \$0.00            |                           |
| Subtotal Sub:           |                 |      |          | \$1,775.00        |                           |
| O&P                     |                 |      |          | 10.00%            | \$177.50                  |
| <b>TOTAL SUB</b>        |                 |      |          | <b>\$1,952.50</b> |                           |

|                       |                     |
|-----------------------|---------------------|
| SUBTOTAL L+E+M:       | \$12,607.90         |
| Bond                  | 15.00%              |
| <b>TOTAL L+E+M+S:</b> | <b>\$16,451.58</b>  |
| Roundup Each (Unit):  | \$16,452.00         |
| Total Each (Unit):    | 1                   |
| <b>CO TOTAL:</b>      | <b>\$ 16,452.00</b> |

Created by: S. Salihi, E.I.T, Resident Engineer,  
Checked by: A. Ronca, PE, 01/12/22

1. 2 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. Backup Documentation**



FERGUSON WATERWORKS #1801  
13900 LOWE STREET  
CHANTILLY, VA 20151-3213

Phone: 703-375-6820  
Fax: 703-435-1662

Deliver To:

From: William Clark

Comments:

14:35:45 DEC 08 2021

Page 1 of 1

FERGUSON WATERWORKS #1800

Price Quotation

Phone: 703-375-6820

Fax: 703-435-1662

**Bid No:** B511229  
**Bid Date:** 08/12/21  
**Quoted By:** TCP

**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#:** FH RELOCATION

**Job Name:** BALLSTON PROJECT

| Item              | Description                         | Quantity | Net Price | UM | Total     |
|-------------------|-------------------------------------|----------|-----------|----|-----------|
| AMJ53PDULA        | 6 CL53 DCL DI MJ PIPE L/A           | 18       | 44.775    | FT | 805.95    |
| MJ4LAU            | 6 MJ C153 45 BEND L/A               | 2        | 113.400   | EA | 226.80    |
| MJLSLAU           | 6X12 MJ C153 LONG SLV L/A           | 1        | 127.008   | EA | 127.01    |
| SSLDEXP6          | 6 DI MJ WDG REST GLND PK E-COAT     | 5        | 58.757    | EA | 293.79    |
| MA320006          | 0'6 HYD EXT 5-1/4 A423              | 1        | 604.575   | EA | 604.58    |
| MA423MJOLTARLNG   | 5-1/4 A423 HYD 5'6 6 MJ OL L/A ARLI | 1        | 2998.280  | EA | 2998.28   |
| <b>Net Total:</b> |                                     |          |           |    | \$5056.41 |
| <b>Tax:</b>       |                                     |          |           |    | \$303.39  |
| <b>Freight:</b>   |                                     |          |           |    | \$0.00    |
| <b>Total:</b>     |                                     |          |           |    | \$5359.80 |

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>

# 4 WEEK BILLING INVOICE

# 196792736-005

**TRENCH SAFETY**  
 BRANCH G29  
 5101 CRESTON ST  
 HYATTSVILLE MD 20781-1219  
 301-779-3160

Job Site

COLLEGE PARK BYPASS  
 8153 BALTIMORE AVE  
 COLLEGE PARK MD 20740-2431

Office: 703-288-3250 Cell: 703-677-7665

Customer # : 857212  
 Invoice Date : 11/17/21  
 Date Out : 08/09/21 12:00 PM  
 Billed Through : 11/29/21 00:00  
 UR Job Loc : 8153 BALTIMORE AVE,  
 UR Job # : 154  
 Customer Job ID:  
 P.O. # : 195  
 Ordered By : LEO PINEDA  
 Reserved By : JOHN SPENCER  
 Salesperson : JOHN SPENCER

ARDENT COMPANY LLC  
 PO BOX 879  
 MCLEAN VA 22101-0879

**Invoice Amount: \$1,167.14**

Terms: Due Upon Receipt  
 Payment options: Contact our credit office 212-333-6600 Ext. 84890  
**REMIT TO:** UNITED RENTALS (NORTH AMERICA), INC.  
 PO BOX 100711  
 ATLANTA GA 30384-0711

RENTAL ITEMS:

| Qty | Equipment | Description  | Minimum | Day    | Week   | 4 Week | Amount                       |
|-----|-----------|--|---------|--------|--------|--------|------------------------------|
| 1   | 10994512  | TRENCH BOX 8' X 12' (4" SKE)<br>Make: SPEEDSHORE Model: TS-0812UR4H SKE<br>Serial: U-19-6472S<br>4' SPREADERS INCLUDED |         | 134.00 | 397.00 | 995.00 | 995.00                       |
| 16  | 940/5655  | 8" SPREADER BAR (LINEAR FEET)  |         |        |        |        | N/C                          |
| 8   | 941/8101  | SPREADER BAR PIN 10"   |         | 4.08   | 6.12   | 13.26  | 106.08                       |
|     |           |  |         |        |        |        | Rental Subtotal: 1,101.08    |
|     |           |  |         |        |        |        | Agreement Subtotal: 1,101.08 |
|     |           |  |         |        |        |        | Tax: 66.06                   |
|     |           |  |         |        |        |        | Total: 1,167.14              |

COMMENTS/NOTES:

CONTACT: LEO PINEDA  
 CELL#: 703-677-7665

Billing period: 28 Days From 11/01/21 12:00 PM Thru 11/29/21 12:00 PM

ARE YOU OR YOUR EMPLOYEES IN NEED OF OPERATOR CERTIFICATION TRAINING?  
 CONTACT UNITED ACADEMY TODAY  
 844-222-2345 OR WWW.UNITEDRENTALS.COM/TRAINING

*Skilled on rent  
195*

Effective January 1, 2021 and where permitted by law, United Rentals may impose a surcharge of 1.8% for credit card payments on charge accounts. This surcharge is not greater than our merchant discount rate for credit card transactions and is subject to sales tax in some jurisdictions.


NOTICE: This invoice is subject to the terms and conditions of the Rental and Service Agreement, which are available at <https://www.unitedrentals.com/legal/rental-service-terms-US> and which are incorporated herein by reference. A COPY OF THE RENTAL AND SERVICE AGREEMENT TERMS ARE AVAILABLE IN PAPER FORM UPON REQUEST.

# item in your cart 1

Please complete your reservation

Reservation 1 item ARDENT COMPANY LLC 857212



✓ 1. Jobsite ✓ 2. Delivery & Pickup 3. Billing



Cat Class: 520-9240  
**Tin. ,rash Pump 3**

WEB RATE 158\$

Quantity: -  +

Start Date: 01/19/2022  End Date: 01/21/2022 

Account: ARDENT COMPANY LLC

Jobsite:  + Requestor:

Notes:

[Delete](#) [Save for Later](#) [Cancel](#) [Save](#)

|         |   |   |                             |
|---------|---|---|-----------------------------|
| JOBSITE | <b>BALLSTON JOB</b>                         | Contact   | <a href="#">Edit</a>        |
|         | 901 N STUART ST<br>ARLINGTON, VA 22203-4418 | Bijay Subedi<br>)703( 398-9489<br>bijay@ardentcompany.com |                             |
| RECEIVE | <b>Deliver to Jobsite</b> + 240\$           | <b>Jan 19, 2022</b>                                       | 8:00am <a href="#">Edit</a> |
| RETURN  | <b>Request Pick-up Later</b> + 240\$        | <b>Jan 21, 2022</b>                                       | 8:00am                      |

Estimated Cost )1 item(

**\$655.39**



## LETTER OF TRANSMITTAL

**To:** Ardent

**Date:** 11/09/21

**Our Job No.:**

**File Code:**

**Your Job No.:**

**Attention:** B. Subedi

**Reference:** Arlington Cty. Construction Contract 20-110-9-6  
Ballston MU Metro Station Area Improvements

|                        |  |   |   |   |
|------------------------|--|---|---|---|
| <b>We are sending:</b> | <input checked="" type="checkbox"/> Attached | <input type="checkbox"/> Under Separate Cover |   |   |
| <b>via:</b>            | <input type="checkbox"/> Overnight           | <input checked="" type="checkbox"/> Email     | <input type="checkbox"/> US Mail          | <input type="checkbox"/> Courier        |
| <b>the following:</b>  | <input type="checkbox"/> Shop Drawings       | <input type="checkbox"/> Prints               | <input checked="" type="checkbox"/> RFI   | <input type="checkbox"/> E-Media        |
|                        | <input type="checkbox"/> Change Order        | <input type="checkbox"/> Copy of Letter       | <input type="checkbox"/> Reports          | <input type="checkbox"/> Specifications |
|                        | <input type="checkbox"/> Cost Estimates      | <input type="checkbox"/> Submittal            | <input type="checkbox"/> Other: See Below |   |

| Item No. | Rev. No. | Quantity | Description                           | Code   |
|----------|----------|----------|---------------------------------------|--------|
| 1        | 0        | 1        | RFI No. 42 Relocation of Fire Hydrant | A,B, F |

|                      |                                |                 |                           |                 |
|----------------------|--------------------------------|-----------------|---------------------------|-----------------|
| <b>Action Codes:</b> | A. Remarks on item transmitted | C. For your use | E. For information only   | G. For approval |
|                      | B. See remarks below           | D. As requested | F. For review and comment |                 |

**Remarks:**

County has reviewed the attached RFI No.42 (Fire Hydrant Relocation) and review comments have been provided.

**Copies To:** Dara Soum, PE, PM – Arlington County  
Mark Mainardi, PM - Arlington County  
Vivek Thukral, Sr. PM – Ardent  
Alfonso Ronca, PE, PM-STV  
Demeke A. Bezabh Inspector – STV

File

**Signed:**

Sekander Salihi, E.I.T  
Resident Engineer, STV



## LETTER OF TRANSMITTAL

**To:** Arlington County

**Date:** 08/13/21

**Our Job No.:**

**File Code:**

**Your Job No.:**

**Attention:** Joe Cogswell

**Reference:** Arlington Cty. Construction Contract 20-110-9-6  
Ballston MU Metro Station Area Improvements

|                        |  |   |   |   |
|------------------------|--|---|---|---|
| <b>We are sending:</b> | <input checked="" type="checkbox"/> Attached | <input type="checkbox"/> Under Separate Cover |   |   |
| <b>via:</b>            | <input type="checkbox"/> Overnight           | <input checked="" type="checkbox"/> Email     | <input type="checkbox"/> US Mail          | <input type="checkbox"/> Courier        |
| <b>the following:</b>  | <input type="checkbox"/> Shop Drawings       | <input type="checkbox"/> Prints               | <input checked="" type="checkbox"/> RFI   | <input type="checkbox"/> E-Media        |
|                        | <input type="checkbox"/> Change Order        | <input type="checkbox"/> Copy of Letter       | <input type="checkbox"/> Reports          | <input type="checkbox"/> Specifications |
|                        | <input type="checkbox"/> Cost Estimates      | <input type="checkbox"/> Submittal            | <input type="checkbox"/> Other: See Below |   |

| Item No. | Rev. No. | Quantity | Description                           | Code   |
|----------|----------|----------|---------------------------------------|--------|
| 1        | 0        | 1        | RFI No. 42 Relocation of Fire Hydrant | A,B, F |

|                      |                                |                 |                           |                 |
|----------------------|--------------------------------|-----------------|---------------------------|-----------------|
| <b>Action Codes:</b> | A. Remarks on item transmitted | C. For your use | E. For information only   | G. For approval |
|                      | B. See remarks below           | D. As requested | F. For review and comment |                 |

**Remarks:**

Please review the attached RFI No.42 Relocation of Fire Hydrant and provide your response. Also please confirm if county wants to reuse the existing fire hydrant during relocation or prefer to replace with new fire hydrant.

**Copies To:** Dara Soum, PE, PM – Arlington County  
Mark Mainardi, PM - Arlington County  
Bijay Subedi, PM-Ardent  
Vivek Thukral, Sr. PM – Ardent  
Alfonso Ronca, PE, PM-STV  
Demeke A. Bezabh Inspector – STV

**Signed:**

Sekander Salihi, E.I.T  
Resident Engineer, STV

File





Ardent Job: 195-42

**REQUEST FOR INFORMATION**

|               |   |
|---------------|---|
| PROJECT NO.   | 20-110-9-6                                  |
| CONTRACT NAME | Ballston MU Metro Station Area Improvements |
| RFI SUBJECT   | Planter 9 and 10                            |
| DATE          | 8/12/2021                                   |

|                     |  |
|---------------------|--|
| RFI NO              | 42   |
| DATE REPLY REQUIRED | 8/13/2021  |
| TO                  | Mr. Dara Soum, P.E, Senior Transit Manager<br>Arlington County |
| FROM                | Bijay Subedi   |

## REFERENCES

|                         |                          |        |
|-------------------------|--------------------------|--------|
| DRAWING(S):<br>19 of 68 | SPECIFICATIONS:<br>W-7.0 | OTHER: |
|-------------------------|--------------------------|--------|

## RFI:

Dear Mr. Soum,

Due to the recent redesign of N Stuart Street, the CR-4 ramp and storm structure 2 was moved south. The relocated storm structure 2 and 15" RCP (as marked up in red) is in conflict with the fire hydrant lead. As of now, the FH will be approximately 5' away from the new face of curb.

As per the marked up sheet 19 of 68, attached, please confirm if county wants to move forward with the relocation of fire hydrant. With the introduction of 2-45 degree bends, the FH will be relocated and vertically adjusted such that it is 1.5' from FOC and TOC per W-7.0. As the joints are going to be restrained with Megalugs, tie-rods will not be required.

Sincerely,

Bijay Subedi  
Project Manager  
Ardent Company, LLC

Reply:

|  |   |
|--|---|
| Project Name<br>Ballston - MU                |   |
| <input type="checkbox"/> REVIEWED            | <input type="checkbox"/> REJECTED                               |
| <input type="checkbox"/> REVISE AND RESUBMIT | <input checked="" type="checkbox"/> REVIEWED WITH CHANGES NOTED |
| BY <i>County Staff**</i>                     | DATE <i>11/9</i>  |
| SUBMITTAL#                                   | SPEC  |

This review is only for general conformance of the project and general compliance. Corrections or comments made on these drawings during this review do not relieve Contractor/Subcontractor from compliance with the requirements of the plans and specifications. Contractor is responsible for all dimensions and fabrication to be confirmed and correlated at the job site

**\*\*BASED ON FIELD OBSERVATIONS, DISCUSSIONS, AND CORRESPONDANCES WITH VARIOUS COUNTY STAFF FROM WSS, SEE RESPONSE FOR AVAILABLE DETAILS**

**SEE BELOW OF NOTES WHICH HAS BEEN BASED ON DIRECTION/DISCUSSION WITH VARIOUS COUNTY STAFF (HIGHLIGHT IN YELLOW BELOW, OTHER VERBAL DISCUSSION MAY APPLY AS WELL). IF YOU HAVE AND FURTHER QUESTIONS PLEASE CONTACT THE COUNTY PROJECT OFFICER OR HIS/HER ASSIGNEE.**

**HIGHLIGHT OF CHANGE NOTES:**

- 1.) REF SHEET 19, MAINTAIN 24" TO 30" OFFSET B/W FACE-OF-CURB AND HYDRANT**
- 2.) REF SHEET 19, ENSURE PROPER HOR&VER CLEARANCE TO EXISTING UTILITY (E.G. SAN LINE AND ETC.). EXISTING UTILITY SHALL NOT BE IMPACTED.**
- 3) REF SHEET 19, ENSURE PROPER RESTRAINT/SURING IS USED WHEN CONNECTION MADE OLD & NEW PIPE TO MAINTAIN FH CONNECTION WITH MAIN.**
- 4) REF SHEET 19, ENSURE STD MIN COVER FOR PROP NEW STORM PIPE**
- 5) REF SHEET 19, REPLACE OLD FH WITH NEW STD FH**

In looking at this relatively quickly, I would want the hydrant a little further back for this very busy bus station location where buses often overhang the curbs or swing a little bit here or there. I'm not sure exactly what the dimensions are and how much overhang can happen with a bus, but I know they try to get tight to those curbs and then maneuver around those bus docks a bit as well. Rather than our standard 18" to 24" from center of hydrant (operating nut) to face of curb, I'd say something more like 30" would be preferable. **Understand, will check with contractor to see if 30" possible** I also don't like that these bends and the hydrant location itself are very close to and over top of a sanitary sewer line, something we prefer to keep 10' separate from typically, with full sections of pipe centered over any crossing and considerable vertical separation as well expected. So pushing the hydrant back a foot or so would give us just a little more of that clearance. **Makes sense, will check with contractor to get more clearance**

I am not sure if what was looked into already. **The team looks to see if it could be moved closer to the center and not advised by the existing engineer it would conflict with telecom utilities** involved crossing the handicapped ramp to get more to the corner of Fairfax and Stuart, which would be a more typical hydrant location than tucked up 30-50 feet from the intersection itself, so maybe that isn't quite as clear as it maybe seems to get over to that location. **We can start, definitely check and get as close as we can, will let the contractor know**

As to restraint, if the existing hydrant is restrained with rods, they'll need to figure out how to make this one work with megalugs and/or blocking behind the new hydrant location, while ensuring the existing pipe that they're cutting remains restrained to the main where it's topped. **I'm not aware if we encounter this situation but will advise the contractor** **Wants to see the plan for more detail, but sounds reasonable to me** The County didn't start using megalugs until the late 90s probably, and this was perhaps installed somewhat earlier than that, so it may have more traditional restraining systems on it. **Understand**

I don't know if a field visit is necessary, particularly if it's not excavated and open to see what's there exactly, but if it can't go anywhere else, I'd just ask it moves back from the face of curb a bit more than shown. **Agreed will do our best to maximum a positive design with everything but good to know our options, thank for the guidance its much appreciated**

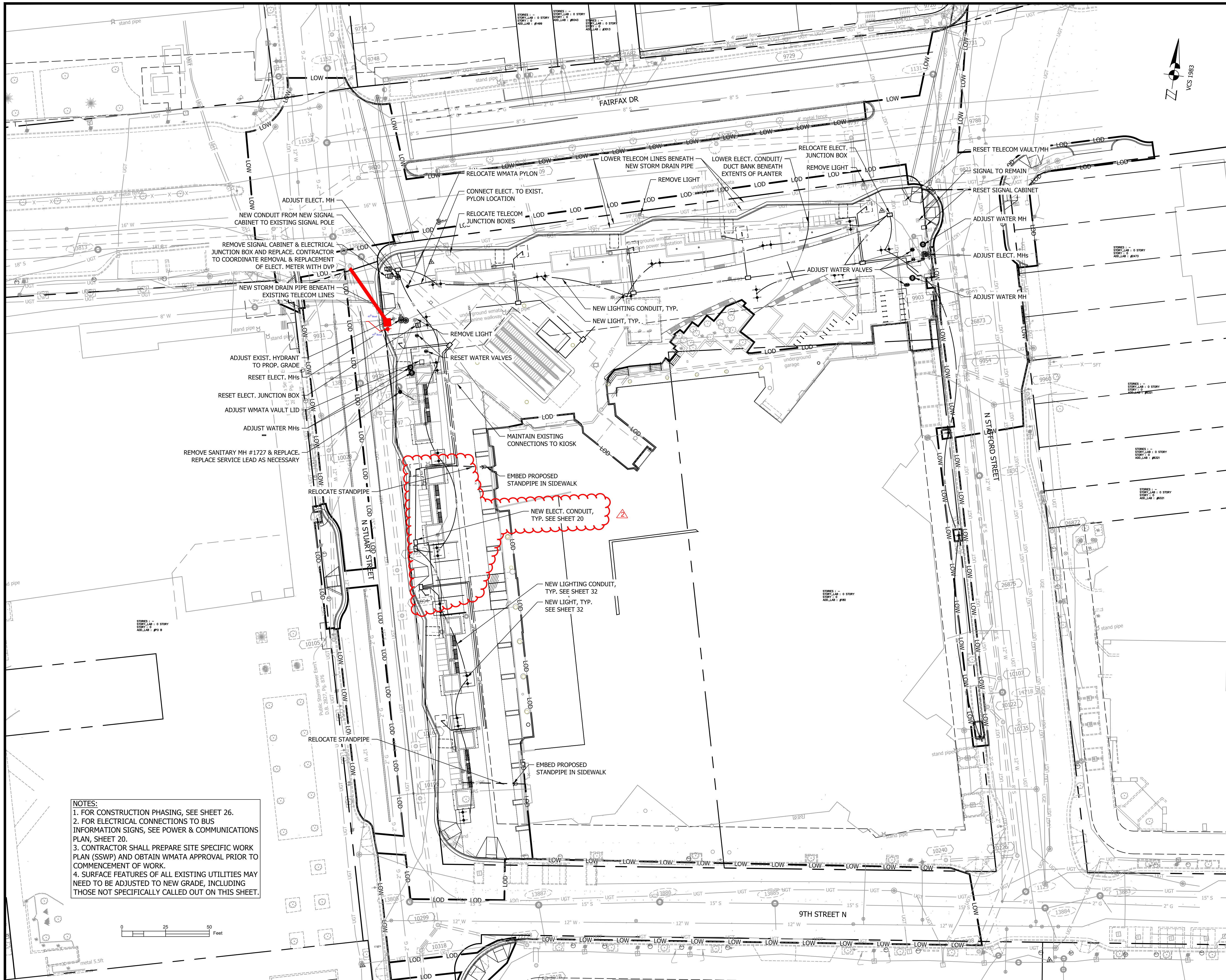
FWW, I agree it should be further back if moving it closer to the bus stop. **OK** I don't see how that will help with the location of the bends in relation to the sanitary, though. **Can see the contractor to check and minimize as much as possible**

On a mostly unrelated note, how shallow is that new storm pipe? **Will check the approved plan and it's a little over 4' cover at it's minimum** over From our records, the existing 21" seems to have about 3' of cover, so wondering how the new pipe will tie to the structure.

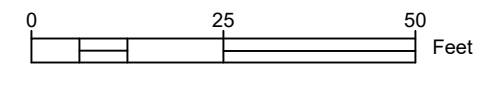
I can meet on-site Tuesday at 10 if needed, but as Dave mentioned, it doesn't seem to be necessary. **Agreed Not needed at this time, but if something comes up will let you know**

Signature: \_\_\_\_\_



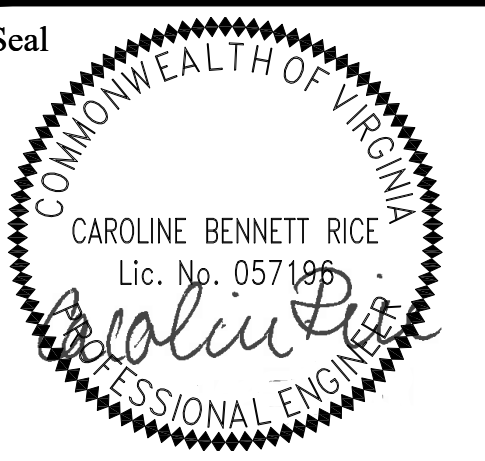


**NOTES:**  
 1. FOR CONSTRUCTION PHASING, SEE SHEET 26.  
 2. FOR ELECTRICAL CONNECTIONS TO BUS INFORMATION SIGNS, SEE POWER & COMMUNICATIONS PLAN, SHEET 20.  
 3. CONTRACTOR SHALL PREPARE SITE SPECIFIC WORK PLAN (SSWP) AND OBTAIN WMATA APPROVAL PRIOR TO COMMENCEMENT OF WORK.  
 4. SURFACE FEATURES OF ALL EXISTING UTILITIES MAY NEED TO BE ADJUSTED TO NEW GRADE, INCLUDING THOSE NOT SPECIFICALLY CALLED OUT ON THIS SHEET.



DEPARTMENT OF ENVIRONMENTAL SERVICES

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



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

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

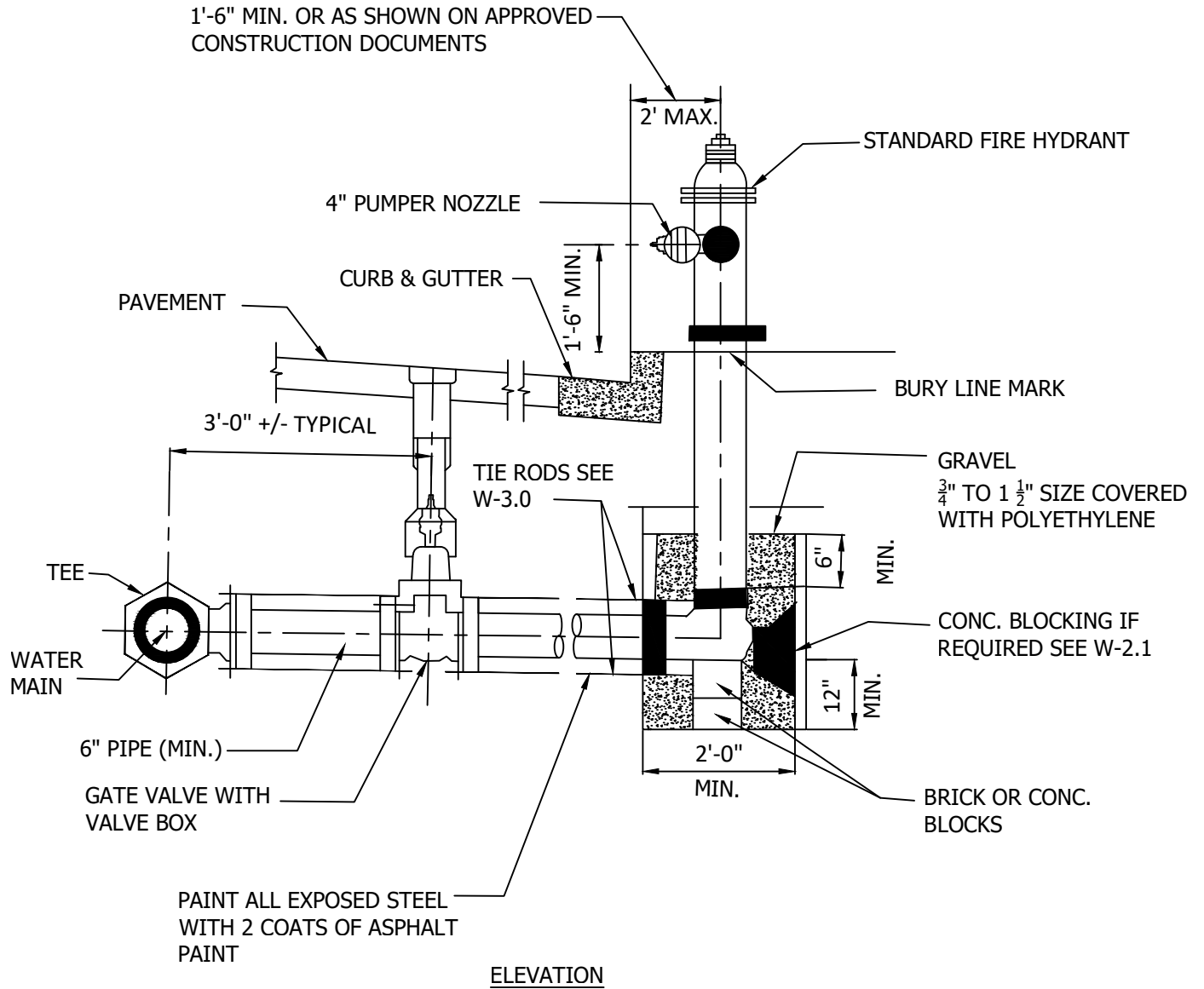
Utility Relocation Plan

Ballston - MU Station  
 Ballston - MU Multimodal Improvements

Designed: K. FLYNN  
 Drawn: K. FLYNN  
 Checked: C. ROBERTS  
 Miss Utility Transmittal #: #####

Filename: 647881\_19\_Utility Plan.dwg  
 Path: \\Arlington\Ballston\MU\Drawings\Stuart St Redesign Sheets  
 Plotted: July 21, 2021  
 Plotted by: p0029986  
 Scale: 1" = 25'





NOTES:

1. ALL VALVES AND FIRE HYDRANTS SHALL BE STRAPPED TO MAIN UNLESS DIRECTED OTHERWISE.
2. PROVIDE VERTICAL OFFSETS OR BENDS AS REQUIRED TO SET HYDRANTS AT PROPER GRADE.
3. MAXIMUM BURY DEPTH OF FIRE HYDRANT IS 6' UNLESS APPROVED OTHERWISE.

**FIRE HYDRANT SETTING**

|  |  |
|--|--|
|  |  |
|  |  |
|  |  |
|  |  |

ISSUED 9/14/2020

DRAWING NO.  
**W-7.0**



ARLINGTON COUNTY, VIRGINIA  
DEPARTMENT OF ENVIRONMENTAL SERVICES

## **CO 09 Backup Documentation**

**CO 09 Includes:**

- **PCO 21 – Add three (3) new items: Refabrication of Planter 3 & 4 Precast Sections, Removal and Replacement of 2 Dead Trees @ Planter 10, and Modification of Phase 2 Streetlight and Flag Sign Foundations.**

- Section A. Memorandum of Negotiations**  
**Section B. Itemized Final Negotiation Breakdown (PCO 21)**  
**Section C. Pencil Copy (working) Markups for Each Party's Estimate (PCO 21)**  
**Section D. Original Party Estimates (PCO 21)**  
**Section E. Backup Documentation**

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



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

**CHANGE ORDER No. 09 – Add three (3) new items: Refabrication of Planter 3 & 4 Precast Sections, Removal and Replacement of 2 Dead Trees @ Planter 10, and Modification of Phase 2 Streetlight and Flag Sign Foundations.**

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

**DATE:** 02/28/22

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

Amount: \$152,776.00

Date: 03/02/22

- 4. **CONTRACTOR’S PROPOSAL (CP):**

Amount: \$183,322.00

Date: 03/03/22

- 5. **NEGOTIATIONS:**

Amount: New Items (3)

\$176,939.00

Date: 03/04/22

**6. REMARKS:**

**Item No. 1 (PCO 21) – Refabrication of Planter 3 & 4 Precast Sections (New Item):**

- Reason for Change Order: Ardent produced pre-cast sections for four (4) new planters along N. Stuart St. per the N. Stuart St. Redesign (NSSR) Package. During installation of Planters 3 & 4, STV found that sidewalk slopes at passenger alighting areas in front of Planters 3 & 4 was not ADA-compliant and showed slopes of 5-6%. Additionally, planter bench heights varied and were not ADA compliant throughout. Despite concerted efforts between Ardent, the County and the designer to resolve the issues by making field adjustments to planter sections, the team ultimately decided to refabricate certain pre-cast pieces per manufacturer’s recommendation to achieve ADA standards. A price proposal was requested from Ardent to include the cost of the refabrication of the necessary pre-cast sections for Planters 3 & 4.

Negotiation Recap: Held 03/03/22: 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 new item: Arlington County Estimate (ACE) = \$138,351.00; Contractor’s Proposal (CP) = \$163,928.00.

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

- (1) The 16 overall CP labor days were excessive.

(2) 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.

(3) Time lost to date for the initial installation then resetting of planter sections in attempts to resolve the issues in the filed were included in the total time negotiated.

(4) Due to continual efforts to avoid impacts and damage to the underground garage structure and newly constructed elements, the contractor was advised not to consider on-site demolition of the unusable precast sections in its estimate. Instead, Ardent would dismantle the Planters on site and deliver to their yard for demolition there. Despite increased times to perform the demolition and increased dump and trucking costs, it was agreed that this was the more prudent option.

Based on these acknowledgements, the CP and ACE agreed: to decrease the overall time needed to perform the demolition to 15 days, to remove the sweeper and steel plates as the work would now be performed off site, and to increase the number of trucking days from 3 to 8.5. As a result, the parties arrived at a Lump Sum (LS) price of \$159,388.00 with a 0 CD extension of the contract duration.

**Item No. 2 (PCO 21) – Removal and Replacement of 2 Dead Trees @ Planter 10 (New Item):**

- Reason for Change Order: During an on-site meeting held on 12/13/2021 with County Arborist, Vincent Verweij, two (2) willow oak trees in Planter 10 were determined to be dead and would require replacement with same type, Quercus Phellos, and of size, 2.5 in. within 2 ft of the original tree locations. A price proposal was requested from Ardent for the removal and replacement of two (2) trees.
- Negotiation Recap: Held 03/03/21: 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 = \$3,665.00; Contractor's Proposal (CP) = \$4,566.00.

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) One (1) CP labor day for MOT assistance of the tree removal sub was excessive.

(2) The ACE and CP estimated varying equipment usage and hours 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 for Ardent's team to assist the tree removal sub. As result, both parties arrived at a lump sum price of \$3,665.00 for Removal and Replacement of Dead Trees @ Planter 10 with 0 CD extension of the contract duration.

**Item No. 3 (PCO 21) – Modification of Phase 2 Streetlight & Flag Sign Foundations (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 b/t 9<sup>th</sup> St. and Fairfax Dr. within the Phase 2 limits, the eight (8) streetlight and four (4) flag sign foundations cannot be constructed per standard depths so spread foundations with concrete pedestals were designed as part of the NSSR package. During a 2/1/22 on-site meeting, County Transit Bureau leadership decided that the current configuration and spacing of these structures limited free movement within the bus landing and seating areas and directed that pedestals be eliminated from all structures and that streetlights be distanced from seating areas to increase spacing for pedestrian movement. RFI No.46 was submitted to Parsons to eliminate the streetlight and flag sign pedestals and increase the size of the spread footings. As result, a price proposal was requested from Ardent for the modification of streetlight and flag sign foundations.



- Negotiation Recap: Held 03/03/21: 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 = \$10,760.00; Contractor's Proposal (CP) = \$14,828.00.

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:

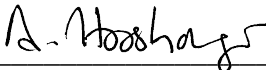


- (1) The 5 CP labor days were excessive.

Based on these acknowledgements, the CP and ACE agreed: to compromise on the labor days require. As result, both parties arrived at a lump sum price of \$13,886.00 for the Modification of Phase 2 Streetlight and Flag Sign Foundations per RFI No. 46 with 0 CD extension of the contract duration.

| Summary of Negotiations | Arlington County Estimate | Contractor's Proposal | Negotiated Price    |
|-------------------------|---------------------------|-----------------------|---------------------|
| Add 1 New Item          | \$152,776.00              | \$183,322.00          | <b>\$176,939.00</b> |

The negotiations of 03/03/22 resulted in all parties agreeing to the same Lump Sum (LS) price for the three (3) new contract items.

Based upon the findings, it is recommended that a change order be issued to Ardent for a lump sum amount of \$176,939.00 with a 0 CD extension of the contract duration. The following find the price to be fair and reasonable for the work involved.

|  |                            |
|--|----------------------------|
| <br>_____<br>Arash Hooshangi, Ardent President                        | 3/8/2022<br>_____<br>Date  |
| <br>_____<br>Sekander Salihi, EIT, STV Resident Engineer              | 3/08/2022<br>_____<br>Date |
| <br>_____<br>Elizabeth R. McElhenny, Arlington County Program Manager | 3/16/22<br>_____<br>Date   |

**Section B. Itemized Final Negotiation Breakdown (PCO 21)**

# ARDENT



## Final Negotiation Copy, 03/03/22

Ballston-MU Station Area Improvements Project  
Arlington County, VA

**PCO-21 Refabrication of New Pieces for Planter 3 & 4**

**Description of Change;**

**Due grading issues, some new pieces will be refabricated for Planter 3 & 4**

| <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            | 120.00       | Hrs.        | \$38.00     | \$4,560.00                  |                                 |
| Laborer (skilled)           | 1.00            | 120.00       | Hrs.        | \$22.00     | \$2,640.00                  |                                 |
| Laborer (unskilled)         | 3.00            | 120.00       | Hrs.        | \$21.00     | \$7,560.00                  |                                 |
| 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                      |                                 |
|                             |                 |              |             |             | <b>Subtotal Labor Base:</b> | \$14,760.00                     |
|                             |                 |              |             |             | Ind. Labor                  | 15.15% \$2,236.14               |
|                             |                 |              |             |             | <b>Subtotal Labor:</b>      | \$16,996.14                     |
|                             |                 |              |             |             | O&P                         | 0.00% \$0.00                    |
|                             |                 |              |             |             | <b>TOTAL LABOR</b>          | <b>\$16,996.14</b>              |
|                             |                 |              |             |             |                             | 15.15% payroll burden           |
|                             |                 |              |             |             |                             | O&P is on Base + Indirect Labor |
| <b>EQUIPMENT</b>            |                 |              |             |             |                             |                                 |
| Excavator                   | 1.00            | 120.00       | Hrs.        | \$101.27    | \$12,152.40                 |                                 |
| Backhoe                     | 0.00            | 0.00         | Hrs.        | \$35.76     | \$0.00                      |                                 |
| Skid Steer                  | 1.00            | 120.00       | Hrs.        | \$29.63     | \$3,555.60                  |                                 |
| 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            | 60.00        | Hrs.        | \$46.77     | \$0.00                      |                                 |
| Concrete Saw                | 1.00            | 64.00        | Hrs.        | \$23.69     | \$1,516.16                  |                                 |
| Sweeper                     | 0.00            | 32.00        | Hrs.        |             | \$0.00                      |                                 |
| Service Truck               | 1.00            | 120.00       | Hrs.        | \$31.26     | \$3,751.20                  | no service truck used           |
| Pickup Truck                | 1.00            | 120.00       | Hrs.        | \$28.26     | \$3,391.20                  |                                 |
|                             |                 |              |             |             | <b>Subtotal Equipment:</b>  | \$24,366.56                     |
|                             |                 |              |             |             | O&P                         | 0.00% \$0.00                    |
|                             |                 |              |             |             | <b>TOTAL EQUIPMENT:</b>     | <b>\$24,366.56</b>              |
| <b>MATERIAL</b>             |                 |              |             |             |                             |                                 |
| Refabricated Pieces         | 1.00            | see comment  | LS          | \$81,150.00 | \$81,150.00                 | Supplier (Arban)                |
| Dump Fee                    | 5.00            |              | EA          | \$450.00    | \$2,250.00                  |                                 |
| Steel Plater                | 0.00            | see comment  | EA          | \$2,958.00  | \$0.00                      | Supplier (United Rental)        |
| Hammer Drill+Air Compressor | 1.00            | see comment  | EA          | \$1,349.42  | \$1,349.42                  | Supplier (United Rental)        |
|                             |                 |              |             |             | <b>Subtotal Material:</b>   | \$84,749.42                     |
|                             |                 |              |             |             | Price +6% Tax               | \$89,834.39                     |
|                             |                 |              |             |             | O&P                         | 0.00% \$0.00                    |
|                             |                 |              |             |             | <b>TOTAL MATERIAL</b>       | <b>\$89,834.39</b>              |
| <b>SUBCONTRACTOR</b>        |                 |              |             |             |                             |                                 |
| Resurveying                 |                 | 1.00         |             | \$2,000.00  | \$2,000.00                  | Sub (Liggie Surveys)            |
| Trucking                    |                 | 8.50         | 9           | \$75.00     | \$5,737.50                  |                                 |
|                             |                 | 0.00         |             |             | \$0.00                      |                                 |
|                             |                 |              |             |             | <b>Subtotal Sub:</b>        | \$7,737.50                      |
|                             |                 |              |             |             | O&P                         | 10.00% \$773.75                 |
|                             |                 |              |             |             | <b>TOTAL SUB</b>            | <b>\$8,511.25</b>               |
|                             |                 |              |             |             | <b>SUBTOTAL L+E+M:</b>      | \$131,197.09                    |
|                             |                 |              |             |             | Bond                        | 15.00% \$19,679.56              |
|                             |                 |              |             |             | <b>TOTAL L+E+M+S:</b>       | \$159,387.90                    |
|                             |                 |              |             |             | Roundup Each (Unit):        | \$159,388.00                    |
|                             |                 |              |             |             | Total Each (Unit):          | 1                               |
|                             |                 |              |             |             | <b>CO TOTAL:</b>            | <b>\$ 159,388.00</b>            |

Created by: S. Salihi, E.I.T, Resident Engineer,  
Checked by: A. Ronca, PE, 03/02/22

1. 15 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, 03/03/22

Ballston-MU Station Area Improvements Project  
Arlington County, VA

**PCO-21 Removal and Replacement of Dead Trees @Planter 10**

**Description of Change;**

Two trees were found dead in Planter-10 and per county direction need to be removed.

| 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                  |          |       |      |         | 0.00%           | \$0.00 O&P is on Base + Indirect Labor |
| <b>TOTAL LABOR</b>   |          |       |      |         | <b>\$566.54</b> |  |

| EQUIPMENT               | Quantity | Hours | Unit | Rate     | Subtotals       | Comments              |
|-------------------------|----------|-------|------|----------|-----------------|-----------------------|
| Excavator               | 0.00     | 0.00  | Hrs. | \$115.85 | \$0.00          |                       |
| Backhoe                 | 0.00     | 16.00 | Hrs. | \$35.76  | \$0.00          |                       |
| 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. | \$31.26  | \$125.04        | no service truck used |
| Pickup Truck            | 0.00     | 16.00 | Hrs. | \$28.26  | \$0.00          |                       |
| Subtotal Equipment:     |          |       |      |          | \$243.56        |                       |
| O&P                     |          |       |      |          | 0.00%           | \$0.00                |
| <b>TOTAL EQUIPMENT:</b> |          |       |      |          | <b>\$243.56</b> |                       |

| MATERIAL                | Quantity | Supplier    | Unit | Unit \$    | Subtotals     | Comments                 |
|-------------------------|----------|-------------|------|------------|---------------|--------------------------|
| Waterline Materials     | 0.00     | see comment | LS   | \$5,056.41 | \$0.00        | Supplier (Ferguson)      |
| Trench Box              | 0.00     | see comment | LS   | \$877.00   | \$0.00        | Supplier (United Rental) |
| Stone                   | 0.00     |             | TON  | \$21.50    | \$0.00        |                          |
| Dump Fee                | 0.00     |             | EA   | \$190.00   | \$0.00        |                          |
| Waterpumping            | 0.00     | see comment | LS   | \$618.29   | \$0.00        | Supplier (United Rental) |
| Forms and Miscellaneous | 0.00     |             | LS   | \$100.00   | \$0.00        |                          |
| Mix Bagged Concrete     | 0.00     |             | LS   | \$100.00   | \$0.00        |                          |
| Subtotal Material:      |          |             |      |            | \$0.00        |                          |
| Price +6% Tax           |          |             |      |            | \$0.00        |                          |
| O&P                     |          |             |      |            | 0.00%         | \$0.00                   |
| <b>TOTAL MATERIAL</b>   |          |             |      |            | <b>\$0.00</b> |                          |

| SUBCONTRACTOR               | Quant. (in Day) | Hrs | Unit \$    | Subtotals         | Comments         |
|-----------------------------|-----------------|-----|------------|-------------------|------------------|
| Tree Removal                | 2.00            |     | \$700.00   | \$1,400.00        | Sub (Excel Tree) |
| Replacement Tree Plantation | 1.00            |     | \$1,084.00 | \$1,084.00        | Sub (Dension)    |
|                             | 0.00            |     | \$0.00     | \$0.00            |                  |
|                             | 0.00            |     | \$0.00     | \$0.00            |                  |
| Subtotal Sub:               |                 |     |            | \$2,484.00        |                  |
| O&P                         |                 |     |            | 10.00%            | \$248.40         |
| <b>TOTAL SUB</b>            |                 |     |            | <b>\$2,732.40</b> |                  |

|                       |                    |
|-----------------------|--------------------|
| SUBTOTAL L+E+M:       | \$810.10           |
| Bond                  | 15.00%             |
| <b>TOTAL L+E+M+S:</b> | <b>\$3,664.01</b>  |
| Roundup Each (Unit):  | \$3,665.00         |
| Total Each (Unit):    | 1                  |
| <b>CO TOTAL:</b>      | <b>\$ 3,665.00</b> |

Created by: S. Salihi, E.I.T, Resident Engineer,  
Checked by: A. Ronca, PE, 003/02/22

- 0.5 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



## Final Negotiation Copy 03/03/22

Ballston-MU Station Area Improvements Project  
Arlington County, VA

**PCO-21 Revised Flag Sign and Street Light Poles Foundation**

**Description of Change;**

**Based on elimination of pedestals from both LPs and FS, revised anchor bolts are required per revision.**

| Task Description    | Quantity | Hours | Unit | Rate    | Subtotals                   | Comments                                     |
|---------------------|----------|-------|------|---------|-----------------------------|--|
| <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) | 3.00     | 32.00 | Hrs. | \$21.00 | \$2,016.00                  |  |
| 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                      |  |
|                     |          |       |      |         | <b>Subtotal Labor Base:</b> | \$3,936.00                                   |
|                     |          |       |      |         | Ind. Labor                  | 15.15% \$596.30 15.15% payroll burden        |
|                     |          |       |      |         | <b>Subtotal Labor:</b>      | \$4,532.30                                   |
|                     |          |       |      |         | O&P                         | 0.00% \$0.00 O&P is on Base + Indirect Labor |
|                     |          |       |      |         | <b>TOTAL LABOR:</b>         | <b>\$4,532.30</b>                            |

| EQUIPMENT          | Quantity | Hours | Unit | Rate     | Subtotals                  | Comments              |
|--------------------|----------|-------|------|----------|----------------------------|-----------------------|
| Excavator          | 0.00     | 0.00  | Hrs. | \$115.85 | \$0.00                     |                       |
| Backhoe            | 0.00     | 32.00 | Hrs. | \$35.76  | \$0.00                     |                       |
| Skid Steer         | 0.00     | 32.00 | 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     | 8.00  | Hrs. | \$23.69  | \$0.00                     |                       |
| Small Tools        | 0.00     |       | Hrs. |          | \$0.00                     |                       |
| Service Truck      | 0.00     | 8.00  | Hrs. | \$31.26  | \$0.00                     | no service truck used |
| Pickup Truck       | 1.00     | 32.00 | Hrs. | \$28.26  | \$904.32                   |                       |
|                    |          |       |      |          | <b>Subtotal Equipment:</b> | \$904.32              |
|                    |          |       |      |          | O&P                        | 0.00% \$0.00          |
|                    |          |       |      |          | <b>TOTAL EQUIPMENT:</b>    | <b>\$904.32</b>       |

| MATERIAL                  | Quantity | Supplier    | Unit | Unit \$  | Subtotals                 | Comments                 |
|---------------------------|----------|-------------|------|----------|---------------------------|--------------------------|
| Anchor Bolts              | 12.00    |             | LS   | \$531.00 | \$6,372.00                |                          |
| Conduits                  | 1.00     |             | LS   | \$50.00  | \$50.00                   | Supplier (United Rental) |
| Concrete (Color Concrete) | -1.00    |             | LS   | \$160.23 | -\$160.23                 |                          |
| Dump Fee                  | 0.00     |             | EA   | \$190.00 | \$0.00                    |                          |
| Waterpumping              | 0.00     | see comment | LS   | \$618.29 | \$0.00                    | Supplier (United Rental) |
| Forms and Miscellaneous   | 0.00     |             | LS   | \$100.00 | \$0.00                    |                          |
| Mix Bagged Concrete       | 0.00     |             | LS   | \$100.00 | \$0.00                    |                          |
|                           |          |             |      |          | <b>Subtotal Material:</b> | \$6,261.77               |
|                           |          |             |      |          | Price +6% Tax             | \$6,637.48               |
|                           |          |             |      |          | O&P                       | 0.00% \$0.00             |
|                           |          |             |      |          | <b>TOTAL MATERIAL:</b>    | <b>\$6,637.48</b>        |

| SUBCONTRACTOR | Quant. (in Day) | Hrs  | Unit \$  | Subtotals            | Comments                  |
|---------------|-----------------|------|----------|----------------------|---------------------------|
|               |                 | 0.00 | \$750.00 | \$0.00               | Sub (Liggie Surveys)      |
|               |                 | 0.00 | \$75.00  | \$0.00               | Sub (Trucking)            |
|               |                 | 0.00 | \$350.00 | \$0.00               | Sub (Dulles Geotechnical) |
|               |                 | 0.00 | \$0.00   | \$0.00               |                           |
|               |                 | 0.00 | \$0.00   | \$0.00               |                           |
|               |                 |      |          | <b>Subtotal Sub:</b> | \$0.00                    |
|               |                 |      |          | O&P                  | 10.00% \$0.00             |
|               |                 |      |          | <b>TOTAL SUB</b>     | <b>\$0.00</b>             |

|                       |                     |
|-----------------------|---------------------|
| SUBTOTAL L+E+M:       | \$12,074.10         |
| Bond                  | 15.00% \$1,811.12   |
| <b>TOTAL L+E+M+S:</b> | <b>\$13,885.22</b>  |
| Roundup Each (Unit):  | \$13,886.00         |
| Total Each (Unit):    | 1                   |
| <b>CO TOTAL:</b>      | <b>\$ 13,886.00</b> |

Created by: S. Salihi, E.I.T, Resident Engineer,  
Checked by: A. Ronca, PE, 03/3/22

1. 4 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 21)**

**Cost Breakdown For Refabrication and Reinstallation of Planters 3 and 4**

**Labor & Equipment Costs**

**Labor**

| Classification | Days             | Hours (ST)     | Hours (OT) | Rate (hr)                 | OT Rate (hr) | Total                             |
|----------------|------------------|----------------|------------|---------------------------|--------------|-----------------------------------|
| Foreman        | <del>15</del> 16 | <del>8</del> 8 |            | \$ <del>43.70</del> 43.70 |              | \$ <del>5,593.60</del> 5,593.60   |
| Laborer        | <del>15</del> 16 | <del>8</del> 8 |            | \$ <del>25.30</del> 25.30 |              | \$ <del>3,238.40</del> 3,238.40   |
| Laborer        | <del>15</del> 16 | <del>8</del> 8 |            | \$ <del>24.12</del> 24.12 |              | \$ <del>3,087.36</del> 3,087.36   |
| Laborer        | <del>15</del> 16 | <del>8</del> 8 |            | \$ <del>24.12</del> 24.12 |              | \$ <del>3,087.36</del> 3,087.36   |
| Laborer        | <del>15</del> 16 | <del>8</del> 8 |            | \$ <del>24.15</del> 24.15 |              | \$ <del>3,091.20</del> 3,091.20   |
| Total          |                  |                |            |                           |              | \$ <del>18,097.92</del> 18,097.92 |

**Equipment**

| Equipment                     | Days             | Hours (Active) | Hours (Sthy) | Rate (Active) | Rate (Sthy) | Total        |
|-------------------------------|------------------|----------------|--------------|---------------|-------------|--------------|
| Excavator                     | <del>15</del> 16 | <del>8</del> 8 | 0            | \$ 101.27     |             | \$ 12,962.56 |
| Pick up Truck, Silverado 1500 | <del>15</del> 16 | <del>8</del> 8 | 0            | \$ 28.26      |             | \$ 3,617.28  |
| Skid Steer, John Deere 317    | <del>15</del> 16 | <del>8</del> 8 | 0            | \$ 29.63      |             | \$ 3,792.64  |
| Concrete Saw                  | <del>8</del> 8   | <del>8</del> 8 | 0            | \$ 23.69      |             | \$ 1,516.16  |
| Service Truck                 | <del>15</del> 16 | <del>8</del> 8 | 0            | \$ 31.26      |             | \$ 4,001.28  |
| Sweeper                       | <del>8</del> 8   | <del>8</del> 8 | 0            | \$ 27.16      |             | \$ 1,738.24  |
| Total                         |                  |                |              |               |             | \$ 27,628.16 |

**Material**

| Material                         | Supplier                  | Quantity     | Unit          | Unit Price             | Unit Price + Tax       | Total                  |
|----------------------------------|---------------------------|--------------|---------------|------------------------|------------------------|------------------------|
| Refabricated Pieces              | Arban                     | 1            | LS            | \$ 81,150.00           | \$ 86,019.00           | \$ 86,019.00           |
| Dump Fee for precast with rebars |                           | 5            | EA            | \$ 450.00              | \$ 477.00              | \$ 2,385.00            |
| <del>Steel Plate</del>           | <del>United Rentals</del> | <del>1</del> | <del>EA</del> | <del>\$ 2,958.00</del> | <del>\$ 3,135.48</del> | <del>\$ 3,135.48</del> |
| Hammer Drill + Air Compressor    | United Rentals            | 1            | EA            | \$ 1,349.42            | \$ 1,430.39            | \$ 1,430.39            |
| Total                            |                           |              |               |                        |                        | \$ 92,969.87           |

**Subcontractor**

| Work            | Sub Contractor | Day              | Hours | Rate     | Lump Sum    | Total       |
|-----------------|----------------|------------------|-------|----------|-------------|-------------|
| Resurveying     | Liggie Surveys | 1                |       |          | \$ 2,000.00 | \$ 2,000.00 |
| Trucking        |                | <del>3</del> 3.5 | 9     | \$ 75.00 |             | \$ 2,025.00 |
| Allowance (10%) |                |                  |       |          |             | \$ 402.50   |
| Total           |                |                  |       |          |             | \$ 4,427.50 |

|   |                                     |
|---|-------------------------------------|
| <b>Base Cost (Labor + Equipment + Material)</b> | \$ <del>138,696.00</del> 138,696.00 |
| <b>Base Cost Overhead and Profit (15%)</b>      | \$ <del>20,804.40</del> 20,804.40   |
| <b>Subcontractor Cost Inc Overhead (10%)</b>    | \$ <del>4,427.50</del> 4,427.50     |
| <b>Total</b>                                    | \$ <del>163,928.00</del> 163,928.00 |

AR/SS 03/3/22

# ARDENT



## STV/County Independent Cost Estimate, 03/01/22

Ballston-MU Station Area Improvements Project  
Arlington County, VA

PCO-21 Refabrication of New Pieces for Planter 3 & 4

**Description of Change:**

Due to grading issues, some new pieces will be refabricated for Planter 3 & 4

| Task Description     | Quantity | Hours | Unit | Rate    | Subtotals                    | Comments                               |
|----------------------|----------|-------|------|---------|------------------------------|--|
| <b>LABOR</b>         |          |       |      |         |                              |  |
| Foreman              | 1.00     | 64.00 | Hrs. | \$38.00 | <del>\$2,432.00</del>        |  |
| Laborer (skilled)    | 1.00     | 64.00 | Hrs. | \$22.00 | <del>\$1,408.00</del>        |  |
| Laborer (unskilled)  | 3.00     | 64.00 | Hrs. | \$21.00 | <del>\$4,032.00</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: |          |       |      |         | <del>\$7,872.00</del>        |  |
| Ind. Labor           |          |       |      |         | 15.15%                       | \$1,192.61 15.15% payroll burden       |
| Subtotal Labor:      |          |       |      |         | <del>\$9,064.61</del>        |  |
| O&P                  |          |       |      |         | 0.00%                        | \$0.00 O&P is on Base + Indirect Labor |
| <b>TOTAL LABOR</b>   |          |       |      |         | <b><del>\$9,064.61</del></b> |  |

| EQUIPMENT               | Quantity | Hours | Unit | Rate     | Subtotals                     | Comments              |
|-------------------------|----------|-------|------|----------|-------------------------------|-----------------------|
| Excavator               | 1.00     | 64.00 | Hrs. | \$115.85 | <del>\$7,414.40</del>         |                       |
| Backhoe                 | 0.00     | 0.00  | Hrs. | \$35.76  | \$0.00                        |                       |
| Skid Steer              | 1.00     | 64.00 | Hrs. | \$29.63  | <del>\$1,898.32</del>         |                       |
| 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               | 1.00     | 32.00 | Hrs. | \$46.77  | <del>\$1,496.64</del>         |                       |
| Concrete Saw            | 1.00     | 32.00 | Hrs. | \$23.69  | <del>\$758.08</del>           |                       |
| Sweeper                 | 1.00     | 32.00 | Hrs. |          | \$0.00                        |                       |
| Service Truck           | 1.00     | 64.00 | Hrs. | \$31.26  | <del>\$2,000.64</del>         | no service truck used |
| Pickup Truck            | 1.00     | 64.00 | Hrs. | \$28.26  | <del>\$1,808.64</del>         |                       |
| Subtotal Equipment:     |          |       |      |          | <del>\$15,374.72</del>        |                       |
| O&P                     |          |       |      |          | 0.00%                         | \$0.00                |
| <b>TOTAL EQUIPMENT:</b> |          |       |      |          | <b><del>\$15,374.72</del></b> |                       |

| MATERIAL                    | Quantity | Supplier    | Unit | Unit \$     | Subtotals             | Comments                 |
|-----------------------------|----------|-------------|------|-------------|-----------------------|--------------------------|
| Refabricated Pieces         | 1.00     | see comment | LS   | \$81,150.00 | \$81,150.00           | Supplier (Arban)         |
| Dump Fee                    | 5.00     |             | EA   | \$270.00    | \$1,350.00            |                          |
| Steel Plater                | 1.00     | see comment | EA   | \$2,958.00  | <del>\$2,958.00</del> | Supplier (United Rental) |
| Hammer Drill+Air Compressor | 1.00     | see comment | EA   | \$1,349.42  | \$1,349.42            | Supplier (United Rental) |
| Subtotal Material:          |          |             |      |             | \$86,807.42           |                          |
| Price +6% Tax               |          |             |      |             | \$92,015.87           |                          |
| O&P                         |          |             |      |             | 0.00%                 | \$0.00                   |
| <b>TOTAL MATERIAL</b>       |          |             |      |             | <b>\$92,015.87</b>    |                          |

| SUBCONTRACTOR    | Quant. (in Day) | Hrs  | Unit \$    | Subtotals             | Comments                     |          |
|------------------|-----------------|------|------------|-----------------------|------------------------------|----------|
| Resurveying      | 1.00            |      | \$2,000.00 | \$2,000.00            | Sub (Liggie Surveys)         |          |
| Trucking         | 8.5             | 3.00 | \$75.00    | <del>\$2,025.00</del> |                              |          |
|                  |                 | 0.00 | \$0.00     | \$0.00                |                              |          |
| Subtotal Sub:    |                 |      |            |                       | <del>\$4,025.00</del>        |          |
| O&P              |                 |      |            |                       | 10.00%                       | \$402.50 |
| <b>TOTAL SUB</b> |                 |      |            |                       | <b><del>\$4,427.50</del></b> |          |

|                       |                                |                        |
|-----------------------|--------------------------------|------------------------|
| SUBTOTAL L+E+M:       | <del>\$116,455.19</del>        |                        |
| Bond                  | 15.00%                         | <del>\$17,468.28</del> |
| <b>TOTAL L+E+M+S:</b> | <b><del>\$138,350.97</del></b> |                        |
| Roundup Each (Unit):  | <del>\$138,351.00</del>        |                        |
| Total Each (Unit):    | 1                              |                        |
| <b>CO TOTAL:</b>      | <b>\$ 138,351.00</b>           |                        |

Created by: S. Salihi, E.I.T, Resident Engineer,  
Checked by: A. Ronca, PE, 03/02/22

1. 8 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 Trees Removal/Replacement**

**Labor & Equipment Costs**

**Labor**

| Classification | Days | Hours (ST) | Hours (OT) | Rate (hr) | OT Rate (hr) | Total       |
|----------------|------|------------|------------|-----------|--------------|-------------|
| Foreman        | 1    | 8          |            | \$ 43.70  |              | \$ 349.60   |
| Laborer        | 1    | 8          |            | \$ 25.30  |              | \$ 202.40   |
| Laborer        | 1    | 8          |            | \$ 24.12  |              | \$ 192.96   |
| Laborer        | 1    | 8          |            | \$ 24.12  |              | \$ 192.96   |
| Laborer        | 1    | 8          |            | \$ 24.15  |              | \$ 193.20   |
| Total          |      |            |            |           |              | \$ 1,131.12 |

**Equipment**

| Equipment                     | Days | Hours (Active) | Hours (Stby) | Rate (Active) | Rate (Stby) | Total     |
|-------------------------------|------|----------------|--------------|---------------|-------------|-----------|
| Backhoe                       | 0    | 8              | 0            | \$ 35.76      |             | \$ -      |
| Pick up Truck, Silverado 1500 | 1    | 8              | 0            | \$ 28.26      |             | \$ 226.08 |
| Skid Steer, John Deere 317    | 1    | 8              | 0            | \$ 29.63      |             | \$ 237.04 |
| Concrete Saw/Drilling Machine | 0    | 8              | 0            | \$ 23.69      |             | \$ -      |
| Service Truck                 | 0    | 8              | 0            | \$ 31.26      |             | \$ -      |
| Sweeper                       | 0    | 8              | 0            | \$ 27.16      |             | \$ -      |
| Total                         |      |                |              |               |             | \$ 463.12 |

**Material**

| Material | Supplier | Quantity | Unit | Unit Price | Unit Price + Tax | Total |
|----------|----------|----------|------|------------|------------------|-------|
|          |          |          |      |            | \$ -             | \$ -  |
|          |          |          |      |            | \$ -             | \$ -  |
| Total    |          |          |      |            |                  | \$ -  |

**Subcontractor**

| Work                        | Sub Contractor | Day | Hours | Rate | Lump Sum        | Total       |
|-----------------------------|----------------|-----|-------|------|-----------------|-------------|
| Tree Removal                | Excel Tree     | 1   |       |      | \$ 1,400.00     | \$ 1,400.00 |
| Replacement Tree Plantation | Denison        | 1   |       |      | \$ 1,084.00     | \$ 1,084.00 |
|                             |                |     |       |      | Allowance (10%) | \$ 248.40   |
| Total                       |                |     |       |      |                 | \$ 2,732.40 |

|  |                    |
|--|--------------------|
| Base Cost (Labor + Equipment + Material) | \$ 1,594.00        |
| Base Cost Overhead and Profit (15%)      | \$ 239.10          |
| Subcontractor Cost Inc Overhead (10%)    | \$ 273.24          |
| <b>Total</b>                             | <b>\$ 4,566.00</b> |

AR/SS  
03/03/22

# ARDENT



## STV/County Independent Cost Estimate, 03/02/22

Ballston-MU Station Area Improvements Project  
Arlington County, VA  
PCO-21 Tree Removal @ Planter 10

**Description of Change;**

Two trees were found dead in Planter-10 and per county direction need to be removed.

| 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 0.00%            |          |       |      |         | \$0.00          | O&P is on Base + Indirect Labor |
| <b>TOTAL LABOR</b>   |          |       |      |         | <b>\$566.54</b> |                                 |

| EQUIPMENT               | Quantity | Hours | Unit | Rate     | Subtotals       | Comments              |
|-------------------------|----------|-------|------|----------|-----------------|-----------------------|
| Excavator               | 0.00     | 0.00  | Hrs. | \$115.85 | \$0.00          |                       |
| Backhoe                 | 0.00     | 16.00 | Hrs. | \$35.76  | \$0.00          |                       |
| 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. | \$31.26  | \$125.04        | no service truck used |
| Pickup Truck            | 0.00     | 16.00 | Hrs. | \$28.26  | \$0.00          |                       |
| Subtotal Equipment:     |          |       |      |          | \$243.56        |                       |
| O&P 0.00%               |          |       |      |          | \$0.00          |                       |
| <b>TOTAL EQUIPMENT:</b> |          |       |      |          | <b>\$243.56</b> |                       |

| MATERIAL                | Quantity | Supplier    | Unit | Unit \$    | Subtotals     | Comments                 |
|-------------------------|----------|-------------|------|------------|---------------|--------------------------|
| Waterline Materials     | 0.00     | see comment | LS   | \$5,056.41 | \$0.00        | Supplier (Ferguson)      |
| Trench Box              | 0.00     | see comment | LS   | \$877.00   | \$0.00        | Supplier (United Rental) |
| Stone                   | 0.00     |             | TON  | \$21.50    | \$0.00        |                          |
| Dump Fee                | 0.00     |             | EA   | \$190.00   | \$0.00        |                          |
| Waterpumping            | 0.00     | see comment | LS   | \$618.29   | \$0.00        | Supplier (United Rental) |
| Forms and Miscellaneous | 0.00     |             | LS   | \$100.00   | \$0.00        |                          |
| Mix Bagged Concrete     | 0.00     |             | LS   | \$100.00   | \$0.00        |                          |
| Subtotal Material:      |          |             |      |            | \$0.00        |                          |
| Price +6% Tax           |          |             |      |            | \$0.00        |                          |
| O&P 0.00%               |          |             |      |            | \$0.00        |                          |
| <b>TOTAL MATERIAL</b>   |          |             |      |            | <b>\$0.00</b> |                          |

| SUBCONTRACTOR               | Quant. (in Day) | Hrs | Unit \$    | Subtotals          | Comments         |
|-----------------------------|-----------------|-----|------------|--------------------|------------------|
| Tree Removal                | 2.00            |     | \$700.00   | \$1,400.00         | Sub (Excel Tree) |
| Replacement Tree Plantation | 1.00            |     | \$1,084.00 | \$1,084.00         | Sub (Dension)    |
|                             | 0.00            |     | \$0.00     | \$0.00             |                  |
|                             | 0.00            |     | \$0.00     | \$0.00             |                  |
| Subtotal Sub:               |                 |     |            | \$2,484.00         |                  |
| O&P 10.00%                  |                 |     |            | \$248.40           |                  |
| <b>TOTAL SUB</b>            |                 |     |            | <b>\$2,732.40</b>  |                  |
| SUBTOTAL L+E+M:             |                 |     |            | \$810.10           |                  |
| Bond 15.00%                 |                 |     |            | \$121.51           |                  |
| <b>TOTAL L+E+M+S:</b>       |                 |     |            | <b>\$3,664.01</b>  |                  |
| Roundup Each (Unit):        |                 |     |            | \$3,665.00         |                  |
| Total Each (Unit):          |                 |     |            | 1                  |                  |
| <b>CO TOTAL:</b>            |                 |     |            | <b>\$ 3,665.00</b> |                  |

Created by: S. Salihi, E.I.T, Resident Engineer,  
Checked by: A. Ronca, PE, 03/02/22

1. 0.5 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.

## Cost Breakdown For Streetlight Foundations

### Labor & Equipment Costs

#### Labor

| Classification | Days           | Hours (ST) | Hours (OT) | Rate (hr) | OT Rate (hr) | Total                |
|----------------|----------------|------------|------------|-----------|--------------|----------------------|
| Foreman        | <del>0.5</del> | 8          |            | \$ 43.76  |              | \$ <del>175.03</del> |
| Laborer        | <del>0.5</del> | 8          |            | \$ 25.33  |              | \$ <del>101.33</del> |
| Laborer        | <del>0.5</del> | 8          |            | \$ 24.18  |              | \$ <del>96.73</del>  |
| Laborer        | <del>0.5</del> | 8          |            | \$ 24.18  |              | \$ <del>96.73</del>  |
| Laborer        | <del>0.5</del> | 8          |            | \$ 24.15  |              | \$ <del>96.59</del>  |
| Total          |                |            |            |           |              | \$ <del>566.40</del> |

#### Equipment

| Equipment                     | Days | Hours (Active) | Hours (Stby) | Rate (Active) | Rate (Stby) | Total     |
|-------------------------------|------|----------------|--------------|---------------|-------------|-----------|
| Backhoe                       | 0    | 8              | 0            | \$ 35.76      |             | \$ -      |
| Pick up Truck, Silverado 1500 | 0.5  | 8              | 0            | \$ 28.26      |             | \$ 113.04 |
| Service Truck                 | 0    | 8              | 0            | \$ 35.00      |             | \$ -      |
| Skid Steer, John Deere 317    | 0    | 8              | 0            | \$ 29.63      |             | \$ -      |
| Total                         |      |                |              |               |             | \$ 113.04 |

#### Material

| Material                              | Supplier | Quantity | Unit | Unit Price | Unit Price + Tax | Total       |
|---------------------------------------|----------|----------|------|------------|------------------|-------------|
| Rebars                                |          | 0        | LS   | \$ 609.48  | \$ 646.05        | \$ -        |
| Rebar Delivery Fee                    |          | 0        | LS   | \$ 100.00  | \$ 106.00        | \$ -        |
| Anchor Bolt                           |          | 1        | LS   | \$ 531.02  | \$ 562.88        | \$ 562.88   |
| Forms, curing compounds, form release |          | 0        | LS   | \$ 250.00  | \$ 265.00        | \$ -        |
| Groundrod and miscellaneous           |          | 0        | EA   | \$ 100.00  | \$ 106.00        | \$ -        |
| Conduits and cables                   |          | 1        | EA   | \$ 50.00   | \$ 53.00         | \$ 53.00    |
| Credit to County for Colored Concrete |          | -1       | LS   | \$ 132.28  | 140.22           | \$ (140.22) |
| Total                                 |          |          |      |            |                  | \$ 475.66   |

#### Subcontractor

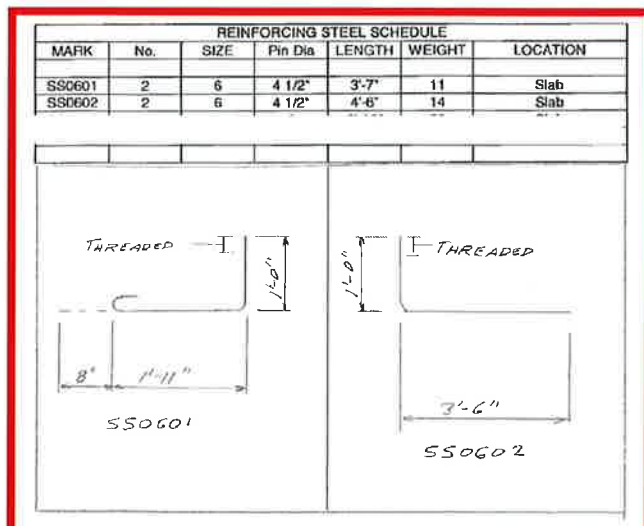
| Work  | Sub Contractor | Day | Hours | Rate | Lump Sum        | Total |
|-------|----------------|-----|-------|------|-----------------|-------|
|       |                |     |       |      |                 | \$ -  |
|       |                |     |       |      | Allowance (10%) | \$ -  |
| Total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

Volume of Deleted Foundation (CF) (2.5\*2.5\*2.5)  
 Price Per CY for colored concrete (140+65+15+1.5+7) \$ 228.50  
 Total Credit \$ 132.28

|  |                    |
|--|--------------------|
| Base Cost (Labor + Equipment + Material) | \$ 1,155.00        |
| Base Cost Overhead and Profit (15%)      | \$ 170.97          |
| Subcontractor Cost Inc Overhead (10%)    | \$ -               |
| <b>Total</b>                             | <b>\$ 1,326.00</b> |

8ea \* \$1,326.00 = \$10,608.00

Proposed Anchor Bolt



## Cost Breakdown For Flag Foundation

### Labor & Equipment Costs

#### Labor

| Classification | Days | Hours (ST) | Hours (OT) | Rate (hr) | OT Rate (hr) | Total     |
|----------------|------|------------|------------|-----------|--------------|-----------|
| Foreman        | 1 ✓  | 2 ✓        |            | \$ 43.76  |              | \$ 87.51  |
| Laborer        | 1 ✓  | 2 ✓        |            | \$ 25.33  |              | \$ 50.67  |
| Laborer        | 1 ✓  | 2 ✓        |            | \$ 24.18  |              | \$ 48.36  |
| Laborer        | 1 ✓  | 2 ✓        |            | \$ 24.15  |              | \$ 48.29  |
| Laborer        | 1 ✓  | 2 ✓        |            | \$ 24.15  |              | \$ 48.29  |
| Laborer        | 1 ✓  | 2 ✓        |            | \$ 24.15  |              | \$ 48.29  |
| Total          |      |            |            |           |              | \$ 331.42 |

#### Equipment

| Equipment                     | Days | Hours (Active) | Hours (Stby) | Rate (Active) | Rate (Stby) | Total    |
|-------------------------------|------|----------------|--------------|---------------|-------------|----------|
| Backhoe                       | 0    | 2 ✓            | 0            | \$ 34.87      |             | \$ -     |
| Pick up Truck, Silverado 1500 | 1 ✓  | 2 ✓            | 0            | \$ 28.26      |             | \$ 56.52 |
| Service Truck                 | 0    | 2              | 0            | \$ 35.00      |             | \$ -     |
| Skid Steer, John Deere 317    | 0    | 2              | 0            | \$ 29.63      |             | \$ -     |
| Total                         |      |                |              |               |             | \$ 56.52 |

#### Material

| Material                              | Supplier | Quantity | Unit | Unit Price | Unit Price + Tax | Total      |
|---------------------------------------|----------|----------|------|------------|------------------|------------|
| Rebars                                |          | 0        | LS   | \$ 492.31  | \$ 521.85        | \$ -       |
| Rebar Delivery Fee                    |          | 0        | LS   | \$ 50.00   | \$ 50.00         | \$ -       |
| Anchor Bolt with nuts and washers     |          | 1 ✓      | LS   | \$ 531.02  | \$ 562.88        | \$ 562.88  |
| Forms, curing compounds, form release |          | 0        | LS   | \$ 250.00  | \$ 265.00        | \$ -       |
| Groundrod and miscellaneous           |          | 0        | EA   | \$ 100.00  | \$ 106.00        | \$ -       |
| Conduits and cables                   |          | 0        | EA   | \$ 50.00   | \$ 53.00         | \$ -       |
| Credit to county for Colored Concrete |          | -1 ✓     | LS   | \$ 27.95   | \$ 29.63         | \$ (29.63) |
| Total                                 |          |          |      |            |                  | \$ 533.25  |

#### Subcontractor

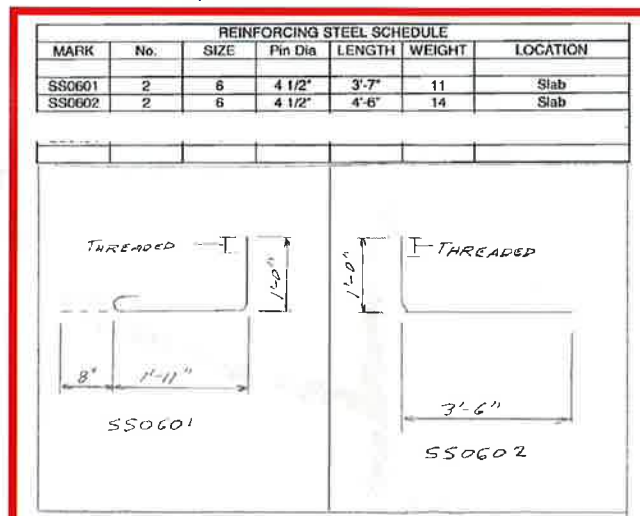
| Work  | Sub Contractor | Day | Hours | Rate | Lump Sum        | Total |
|-------|----------------|-----|-------|------|-----------------|-------|
|       |                |     |       |      |                 | \$ -  |
|       |                |     |       |      | Allowance (10%) | \$ -  |
| Total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

|  |                    |
|--|--------------------|
| Base Cost (Labor + Equipment + Material) | \$ 924.00          |
| Base Cost Overhead and Profit (15%)      | \$ 133.30          |
| Subcontractor Cost Inc Overhead (10%)    | \$ -               |
| <b>Total</b>                             | <b>\$ 1,057.30</b> |

Volume of Deleted Foundation (Cy) (2.5\*2\*2)\*1.15  
 Price Per CY for colored concrete (140+65-140) \$ 65.00  
 Total Credit \$ 27.95

Proposed Anchor Bolt  
 0.43  
 \$ 27.95

4ea \* \$1,055.00 = \$4,220.00





AR/SS  
03/03/22

# ARDENT



## STV/County Independent Cost Estimate, 03/02/22

Ballston-MU Station Area Improvements Project  
Arlington County, VA

PCO-21 Revised Flag Sign and Street Light Poles Foundation

**Description of Change:**

Based on elimination of pedestals from both LPs and FS, revised anchor bolts are required per revision.

| 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     | 32.00 | Hrs. | \$22.00 | \$352.00          |                                 |
| Laborer (unskilled)  | 3.00     | 16.00 | Hrs. | \$21.00 | \$1,008.00        |                                 |
| 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: |          |       |      |         | \$1,968.00        |                                 |
| Ind. Labor 15.15%    |          |       |      |         | \$398.15          | 15.15% payroll burden           |
| Subtotal Labor:      |          |       |      |         | \$2,266.15        |                                 |
| O&P 0.00%            |          |       |      |         | \$0.00            | O&P is on Base + Indirect Labor |
| <b>TOTAL LABOR</b>   |          |       |      |         | <b>\$2,266.15</b> |                                 |

| EQUIPMENT               | Quantity | Hours | Unit | Rate     | Subtotals       | Comments              |
|-------------------------|----------|-------|------|----------|-----------------|-----------------------|
| Excavator               | 0.00     | 0.00  | Hrs. | \$115.85 | \$0.00          |                       |
| Backhoe                 | 0.00     | 0.00  | Hrs. | \$35.76  | \$0.00          |                       |
| Skid Steer              | 0.00     | 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            | 0.00     | 8.00  | Hrs. | \$23.69  | \$0.00          |                       |
| Small Tools             | 0.00     |       | Hrs. |          | \$0.00          |                       |
| Service Truck           | 0.00     | 8.00  | Hrs. | \$31.26  | \$0.00          | no service truck used |
| Pickup Truck            | 1.00     | 32.00 | Hrs. | \$28.26  | \$452.16        |                       |
| Subtotal Equipment:     |          |       |      |          | \$452.16        |                       |
| O&P 0.00%               |          |       |      |          | \$0.00          |                       |
| <b>TOTAL EQUIPMENT:</b> |          |       |      |          | <b>\$452.16</b> |                       |

| MATERIAL                | Quantity | Supplier    | Unit | Unit \$  | Subtotals         | Comments                 |
|-------------------------|----------|-------------|------|----------|-------------------|--------------------------|
| Anchor Bolts            | 12.00    |             | LS   | \$531.00 | \$6,372.00        |                          |
| Conduits                | 1.00     |             | LS   | \$50.00  | \$50.00           | Supplier (United Rental) |
| Concrete (Color)        | 1.00     |             | LS   | \$160.23 | \$160.23          |                          |
| Dump Fee                | 0.00     |             | EA   | \$190.00 | \$0.00            |                          |
| Waterpumping            | 0.00     | see comment | LS   | \$618.29 | \$0.00            | Supplier (United Rental) |
| Forms and Miscellaneous | 0.00     |             | LS   | \$100.00 | \$0.00            |                          |
| Mix Bagged Concrete     | 0.00     |             | LS   | \$100.00 | \$0.00            |                          |
| Subtotal Material:      |          |             |      |          | \$6,261.77        |                          |
| Price +6% Tax           |          |             |      |          | \$6,637.48        |                          |
| O&P 0.00%               |          |             |      |          | \$0.00            |                          |
| <b>TOTAL MATERIAL:</b>  |          |             |      |          | <b>\$6,637.48</b> |                          |

| SUBCONTRACTOR     | Quant. (in Day) | Hrs  | Unit \$  | Subtotals     | Comments                  |
|-------------------|-----------------|------|----------|---------------|---------------------------|
|                   |                 | 0.00 | \$750.00 | \$0.00        | Sub (Liggie Surverys)     |
|                   |                 | 0.00 | \$75.00  | \$0.00        | Sub (Trucking)            |
|                   |                 | 0.00 | \$350.00 | \$0.00        | Sub (Dulles Geotechnical) |
|                   |                 | 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:       | \$9,365.79          |
| Bond 15.00%           | \$1,403.37          |
| <b>TOTAL L+E+M+S:</b> | <b>\$10,769.16</b>  |
| Roundup Each (Unit):  | \$10,760.00         |
| Total Each (Unit):    | 1                   |
| <b>CO TOTAL:</b>      | <b>\$ 10,760.00</b> |

Created by: S. Salihi, E.I.T., Resident Engineer,  
Checked by: A. Ronca, PE, 03/3/22

1. 2 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 Estimates (PCO 21)**



Ardent Job: 193-20

February 28, 2022

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. Soum,

Ardent Company hereby submits a change order for the re-fabrication & re-installation of planters 3 and 4, removal & reinstallation of two trees, and modifications to street light & flag sign foundation with new sets of anchor bolts.

Detailed cost breakdown with material prices is attached with this change order request.

| Item#                               | Description                                       | Qty | Unit | Unit Price   | Total                |
|-------------------------------------|---|-----|------|--------------|----------------------|
| CO9-1                               | Modification of Planters 3 and 4                  | 1   | LS   | \$163,928.00 | \$ 163,928.00        |
| CO9-2                               | Tree Removal and Planting                         | 1   | LS   | \$ 4,566.00  | \$ 4,566.00          |
| CO9-3                               | Modification in Streetlights and Flag Foundations | 1   | LS   | \$ 14,828.00 | \$ 14,828.00         |
| <b>Total Net Change to Contract</b> |   |     |      |              | <b>\$ 183,322.00</b> |

Please note that the attached CO doesn't include any site direct & indirect overhead expenses as the extent of delay is unknown at this time. Once the extent of the delay is established, Ardent will submit the change order for the compensation.

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 Refabrication and Reinstallation of Planters 3 and 4

### 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        |
|-------------------------------|------|----------------|--------------|---------------|-------------|--------------|
| Excavator                     | 16   | 8              | 0            | \$ 101.27     |             | \$ 12,962.56 |
| 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  |
| Concrete Saw                  | 8    | 8              | 0            | \$ 23.69      |             | \$ 1,516.16  |
| Service Truck                 | 16   | 8              | 0            | \$ 31.26      |             | \$ 4,001.28  |
| Sweeper                       | 8    | 8              | 0            | \$ 27.16      |             | \$ 1,738.24  |
| Total                         |      |                |              |               |             | \$ 27,628.16 |

#### Material

| Material                         | Supplier       | Quantity | Unit | Unit Price   | Unit Price + Tax | Total        |
|----------------------------------|----------------|----------|------|--------------|------------------|--------------|
| Refabricated Pieces              | Arban          | 1        | LS   | \$ 81,150.00 | \$ 86,019.00     | \$ 86,019.00 |
| Dump Fee for precast with rebars |                | 5        | EA   | \$ 450.00    | \$ 477.00        | \$ 2,385.00  |
| Steel Plate                      | United Rentals | 1        | EA   | \$ 2,958.00  | \$ 3,135.48      | \$ 3,135.48  |
| Hammer Drill + Air Compressor    | United Rentals | 1        | EA   | \$ 1,349.42  | \$ 1,430.39      | \$ 1,430.39  |
| Total                            |                |          |      |              |                  | \$ 92,969.87 |

#### Subcontractor

| Work        | Sub Contractor | Day | Hours | Rate     | Lump Sum        | Total       |
|-------------|----------------|-----|-------|----------|-----------------|-------------|
| Resurveying | Liggie Surveys | 1   |       |          | \$ 2,000.00     | \$ 2,000.00 |
| Trucking    |                | 3   | 9     | \$ 75.00 |                 | \$ 2,025.00 |
|             |                |     |       |          |                 | \$ -        |
|             |                |     |       |          | Allowance (10%) | \$ 402.50   |
| Total       |                |     |       |          |                 | \$ 4,427.50 |

|   |                      |
|---|----------------------|
| <b>Base Cost (Labor + Equipment + Material)</b> | <b>\$ 138,696.00</b> |
| <b>Base Cost Overhead and Profit (15%)</b>      | <b>\$ 20,804.40</b>  |
| <b>Subcontractor Cost Inc Overhead (10%)</b>    | <b>\$ 4,427.50</b>   |
| <b>Total</b>                                    | <b>\$ 163,928.00</b> |



## Cost Breakdown For Streetlight Foundations

### Labor & Equipment Costs

#### Labor

| Classification | Days | Hours (ST) | Hours (OT) | Rate (hr) | OT Rate (hr) | Total     |
|----------------|------|------------|------------|-----------|--------------|-----------|
| Foreman        | 0.5  | 8          |            | \$ 43.76  |              | \$ 175.03 |
| Laborer        | 0.5  | 8          |            | \$ 25.33  |              | \$ 101.33 |
| Laborer        | 0.5  | 8          |            | \$ 24.18  |              | \$ 96.73  |
| Laborer        | 0.5  | 8          |            | \$ 24.18  |              | \$ 96.73  |
| Laborer        | 0.5  | 8          |            | \$ 24.15  |              | \$ 96.59  |
| Total          |      |            |            |           |              | \$ 566.40 |

#### Equipment

| Equipment                     | Days | Hours (Active) | Hours (Stby) | Rate (Active) | Rate (Stby) | Total     |
|-------------------------------|------|----------------|--------------|---------------|-------------|-----------|
| Backhoe                       | 0    | 8              | 0            | \$ 35.76      |             | \$ -      |
| Pick up Truck, Silverado 1500 | 0.5  | 8              | 0            | \$ 28.26      |             | \$ 113.04 |
| Service Truck                 | 0    | 8              | 0            | \$ 35.00      |             | \$ -      |
| Skid Steer, John Deere 317    | 0    | 8              | 0            | \$ 29.63      |             | \$ -      |
| Total                         |      |                |              |               |             | \$ 113.04 |

#### Material

| Material                              | Supplier | Quantity | Unit | Unit Price | Unit Price + Tax | Total       |
|---------------------------------------|----------|----------|------|------------|------------------|-------------|
| Rebars                                |          | 0        | LS   | \$ 609.48  | \$ 646.05        | \$ -        |
| Rebar Delivery Fee                    |          | 0        | LS   | \$ 100.00  | \$ 106.00        | \$ -        |
| Anchor Bolt                           |          | 1        | LS   | \$ 531.02  | \$ 562.88        | \$ 562.88   |
| Forms, curing compounds, form release |          | 0        | LS   | \$ 250.00  | \$ 265.00        | \$ -        |
| Groundrod and miscellaneous           |          | 0        | EA   | \$ 100.00  | \$ 106.00        | \$ -        |
| Conduits and cables                   |          | 1        | EA   | \$ 50.00   | \$ 53.00         | \$ 53.00    |
| Credit to County for Colored Concrete |          | -1       | LS   | \$ 132.28  | \$ 140.22        | \$ (140.22) |
| Total                                 |          |          |      |            |                  | \$ 475.66   |

#### Subcontractor

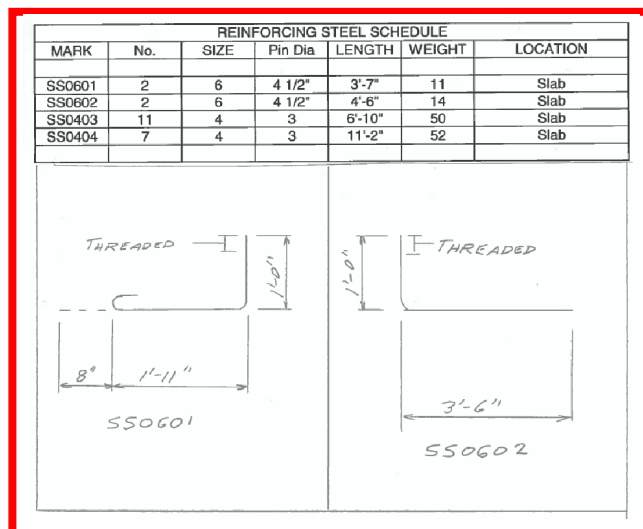
| Work  | Sub Contractor | Day | Hours | Rate | Lump Sum        | Total |
|-------|----------------|-----|-------|------|-----------------|-------|
|       |                |     |       |      |                 | \$ -  |
|       |                |     |       |      | Allowance (10%) | \$ -  |
| Total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

|   |                    |
|---|--------------------|
| <b>Base Cost (Labor + Equipment + Material)</b> | <b>\$ 1,155.00</b> |
| <b>Base Cost Overhead and Profit (15%)</b>      | <b>\$ 170.97</b>   |
| <b>Subcontractor Cost Inc Overhead (10%)</b>    | <b>\$ -</b>        |
| <b>Total</b>                                    | <b>\$ 1,326.00</b> |

Volume of Deleted Foundation (CF) (2.5\*2.5\*2.5) 15.63  
 Price Per CY for colored concrete (140+65+15+1.5+7) \$ 228.50  
 Total Credit \$ 132.28

8ea \* \$1,326.00 = \$10,608.00

Proposed Anchor Bolt



## Cost Breakdown For Flag Foundation

### Labor & Equipment Costs

#### Labor

| Classification | Days | Hours (ST) | Hours (OT) | Rate (hr) | OT Rate (hr) | Total     |
|----------------|------|------------|------------|-----------|--------------|-----------|
| Foreman        | 1    | 2          |            | \$ 43.76  |              | \$ 87.51  |
| Laborer        | 1    | 2          |            | \$ 25.33  |              | \$ 50.67  |
| Laborer        | 1    | 2          |            | \$ 24.18  |              | \$ 48.36  |
| Laborer        | 1    | 2          |            | \$ 24.15  |              | \$ 48.29  |
| Laborer        | 1    | 2          |            | \$ 24.15  |              | \$ 48.29  |
| Laborer        | 1    | 2          |            | \$ 24.15  |              | \$ 48.29  |
| Total          |      |            |            |           |              | \$ 331.42 |

#### Equipment

| Equipment                     | Days | Hours (Active) | Hours (Stby) | Rate (Active) | Rate (Stby) | Total    |
|-------------------------------|------|----------------|--------------|---------------|-------------|----------|
| Backhoe                       | 0    | 2              | 0            | \$ 34.87      |             | \$ -     |
| Pick up Truck, Silverado 1500 | 1    | 2              | 0            | \$ 28.26      |             | \$ 56.52 |
| Service Truck                 | 0    | 2              | 0            | \$ 35.00      |             | \$ -     |
| Skid Steer, John Deere 317    | 0    | 2              | 0            | \$ 29.63      |             | \$ -     |
| Total                         |      |                |              |               |             | \$ 56.52 |

#### Material

| Material                              | Supplier | Quantity | Unit | Unit Price | Unit Price + Tax | Total      |
|---------------------------------------|----------|----------|------|------------|------------------|------------|
| Rebars                                |          | 0        | LS   | \$ 492.31  | \$ 521.85        | \$ -       |
| Rebar Delivery Fee                    |          | 0        | LS   | \$ 50.00   | \$ 50.00         | \$ -       |
| Anchor Bolt with nuts and washers     |          | 1        | LS   | \$ 531.02  | \$ 562.88        | \$ 562.88  |
| Forms, curing compounds, form release |          | 0        | LS   | \$ 250.00  | \$ 265.00        | \$ -       |
| Groundrod and miscellaneous           |          | 0        | EA   | \$ 100.00  | \$ 106.00        | \$ -       |
| Conduits and cables                   |          | 0        | EA   | \$ 50.00   | \$ 53.00         | \$ -       |
| Credit to county for Colored Concrete |          | -1       | LS   | \$ 27.95   | \$ 29.63         | \$ (29.63) |
| Total                                 |          |          |      |            |                  | \$ 533.25  |

#### Subcontractor

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

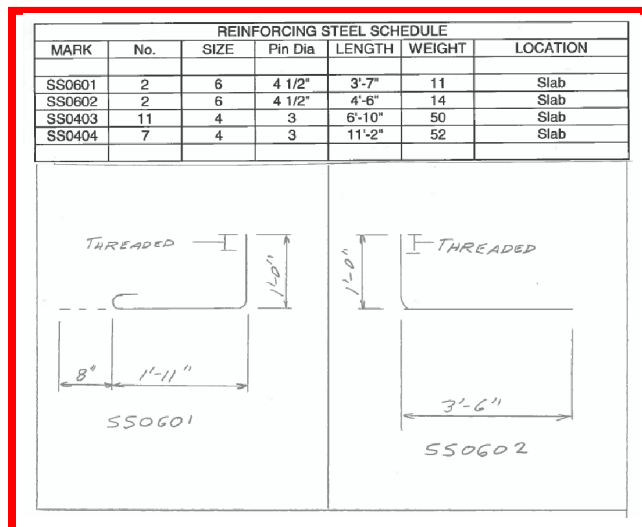
|   |                    |
|---|--------------------|
| <b>Base Cost (Labor + Equipment + Material)</b> | <b>\$ 921.00</b>   |
| <b>Base Cost Overhead and Profit (15%)</b>      | <b>\$ 133.30</b>   |
| <b>Subcontractor Cost Inc Overhead (10%)</b>    | <b>\$ -</b>        |
| <b>Total</b>                                    | <b>\$ 1,055.00</b> |

Volume of Deleted Foundation (Cy) (2.5\*2)\*1.15  
 Price Per CY for colored concrete (140+65-140)  
 Total Credit

0.43  
**\$ 65.00**  
**\$ 27.95**

Proposed Anchor Bolt

4ea \* \$1,055.00 = \$4,220.00



|   |
|---|
| <b>Cost Breakdown For Trees Removal/Replacement</b> |
|---|

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

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

| Classification | Days | Hours (ST) | Hours (OT) | Rate (hr) | OT Rate (hr) | Total       |
|----------------|------|------------|------------|-----------|--------------|-------------|
| Foreman        | 1    | 8          |            | \$ 43.70  |              | \$ 349.60   |
| Laborer        | 1    | 8          |            | \$ 25.30  |              | \$ 202.40   |
| Laborer        | 1    | 8          |            | \$ 24.12  |              | \$ 192.96   |
| Laborer        | 1    | 8          |            | \$ 24.12  |              | \$ 192.96   |
| Laborer        | 1    | 8          |            | \$ 24.15  |              | \$ 193.20   |
| Total          |      |            |            |           |              | \$ 1,131.12 |

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

| Equipment                     | Days | Hours (Active) | Hours (Stby) | Rate (Active) | Rate (Stby) | Total     |
|-------------------------------|------|----------------|--------------|---------------|-------------|-----------|
| Backhoe                       | 0    | 8              | 0            | \$ 35.76      |             | \$ -      |
| Pick up Truck, Silverado 1500 | 1    | 8              | 0            | \$ 28.26      |             | \$ 226.08 |
| Skid Steer, John Deere 317    | 1    | 8              | 0            | \$ 29.63      |             | \$ 237.04 |
| Concrete Saw/Drilling Machine | 0    | 8              | 0            | \$ 23.69      |             | \$ -      |
| Service Truck                 | 0    | 8              | 0            | \$ 31.26      |             | \$ -      |
| Sweeper                       | 0    | 8              | 0            | \$ 27.16      |             | \$ -      |
| Total                         |      |                |              |               |             | \$ 463.12 |

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

| Material | Supplier | Quantity | Unit | Unit Price | Unit Price + Tax | Total |
|----------|----------|----------|------|------------|------------------|-------|
|          |          |          |      |            | \$ -             | \$ -  |
|          |          |          |      |            | \$ -             | \$ -  |
| Total    |          |          |      |            |                  | \$ -  |

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

| Work                        | Sub Contractor | Day | Hours | Rate | Lump Sum               | Total       |
|-----------------------------|----------------|-----|-------|------|------------------------|-------------|
| Tree Removal                | Excel Tree     | 1   |       |      | \$ 1,400.00            | \$ 1,400.00 |
| Replacement Tree Plantation | Denison        | 1   |       |      | \$ 1,084.00            | \$ 1,084.00 |
|                             |                |     |       |      | <i>Allowance (10%)</i> | \$ 248.40   |
| Total                       |                |     |       |      |                        | \$ 2,732.40 |

|   |                    |
|---|--------------------|
| <b>Base Cost (Labor + Equipment + Material)</b> | <b>\$ 1,594.00</b> |
| <b>Base Cost Overhead and Profit (15%)</b>      | <b>\$ 239.10</b>   |
| <b>Subcontractor Cost Inc Overhead (10%)</b>    | <b>\$ 2,732.40</b> |
| <b>Total</b>                                    | <b>\$ 4,566.00</b> |

# ARDENT



## STV/County Independent Cost Estimate, 03/01/22

Ballston-MU Station Area Improvements Project  
Arlington County, VA

**PCO-21 Refabrication of New Pieces for Planter 3 & 4**

**Description of Change;**

**Due to grading issues, some new pieces will be refabricated for Planter 3 & 4**

| Task Description             | Quantity | Hours       | Unit | Rate        | Subtotals                   | Comments                        |
|------------------------------|----------|-------------|------|-------------|-----------------------------|---------------------------------|
| <b>LABOR</b>                 |          |             |      |             |                             |                                 |
| Foreman                      | 1.00     | 64.00       | Hrs. | \$38.00     | \$2,432.00                  |                                 |
| Laborer (skilled)            | 1.00     | 64.00       | Hrs. | \$22.00     | \$1,408.00                  |                                 |
| Laborer (unskilled)          | 3.00     | 64.00       | Hrs. | \$21.00     | \$4,032.00                  |                                 |
| 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                      |                                 |
|                              |          |             |      |             | <b>Subtotal Labor Base:</b> |                                 |
|                              |          |             |      |             | \$7,872.00                  |                                 |
|                              |          |             |      |             | Ind. Labor <b>15.15%</b>    | \$1,192.61                      |
|                              |          |             |      |             | <b>Subtotal Labor:</b>      |                                 |
|                              |          |             |      |             | \$9,064.61                  |                                 |
|                              |          |             |      |             | O&P <b>0.00%</b>            | \$0.00                          |
|                              |          |             |      |             |                             | O&P is on Base + Indirect Labor |
|                              |          |             |      |             | <b>TOTAL LABOR</b>          | <b>\$9,064.61</b>               |
| <b>EQUIPMENT</b>             |          |             |      |             |                             |                                 |
| Excavator                    | 1.00     | 64.00       | Hrs. | \$115.85    | \$7,414.40                  |                                 |
| Backhoe                      | 0.00     | 0.00        | Hrs. | \$35.76     | \$0.00                      |                                 |
| 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                    | 1.00     | 32.00       | Hrs. | \$46.77     | \$1,496.64                  |                                 |
| Concrete Saw                 | 1.00     | 32.00       | Hrs. | \$23.69     | \$758.08                    |                                 |
| Sweeper                      | 1.00     | 32.00       | Hrs. |             | \$0.00                      |                                 |
| Service Truck                | 1.00     | 64.00       | Hrs. | \$31.26     | \$2,000.64                  | no service truck used           |
| Pickup Truck                 | 1.00     | 64.00       | Hrs. | \$28.26     | \$1,808.64                  |                                 |
|                              |          |             |      |             | <b>Subtotal Equipment:</b>  |                                 |
|                              |          |             |      |             | \$15,374.72                 |                                 |
|                              |          |             |      |             | O&P <b>0.00%</b>            | \$0.00                          |
|                              |          |             |      |             | <b>TOTAL EQUIPMENT:</b>     | <b>\$15,374.72</b>              |
| <b>MATERIAL</b>              |          |             |      |             |                             |                                 |
| Refabricated Pieces          | 1.00     | see comment | LS   | \$81,150.00 | \$81,150.00                 | Supplier (Arban)                |
| Dump Fee                     | 5.00     |             | EA   | \$270.00    | \$1,350.00                  |                                 |
| Steel Plater                 | 1.00     | see comment | EA   | \$2,958.00  | \$2,958.00                  | Supplier (United Rental)        |
| Hampper Drill+Air Compressor | 1.00     | see comment | EA   | \$1,349.42  | \$1,349.42                  | Supplier (United Rental)        |
|                              |          |             |      |             | <b>Subtotal Material:</b>   |                                 |
|                              |          |             |      |             | \$86,807.42                 |                                 |
|                              |          |             |      |             | Price +6% Tax               | \$92,015.87                     |
|                              |          |             |      |             | O&P <b>0.00%</b>            | \$0.00                          |
|                              |          |             |      |             | <b>TOTAL MATERIAL</b>       | <b>\$92,015.87</b>              |
| <b>SUBCONTRACTOR</b>         |          |             |      |             |                             |                                 |
| Resurveying                  |          | 1.00        |      | \$2,000.00  | \$2,000.00                  | Sub (Liggie Surverys)           |
| Trucking                     |          | 3.00        | 9    | \$75.00     | \$2,025.00                  |                                 |
|                              |          | 0.00        |      | \$0.00      | \$0.00                      |                                 |
|                              |          |             |      |             | <b>Subtotal Sub:</b>        |                                 |
|                              |          |             |      |             | \$4,025.00                  |                                 |
|                              |          |             |      |             | O&P <b>10.00%</b>           | \$402.50                        |
|                              |          |             |      |             | <b>TOTAL SUB</b>            | <b>\$4,427.50</b>               |
|                              |          |             |      |             | <b>SUBTOTAL L+E+M:</b>      | <b>\$116,455.19</b>             |
|                              |          |             |      |             | Bond <b>15.00%</b>          | \$17,468.28                     |
|                              |          |             |      |             | <b>TOTAL L+E+M+S:</b>       | <b>\$138,350.97</b>             |
|                              |          |             |      |             | Roundup Each (Unit):        | \$138,351.00                    |
|                              |          |             |      |             | Total Each (Unit):          | 1                               |
|                              |          |             |      |             | <b>CO TOTAL:</b>            | <b>\$ 138,351.00</b>            |

Created by: S. Salihi, E.I.T, Resident Engineer,  
Checked by: A. Ronca, PE, 03/02/22

1. 8 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, 03/02/22

Ballston-MU Station Area Improvements Project  
Arlington County, VA

**PCO-21 Revised Flag Sign and Street Light Poles Foundation**

**Description of Change;**

**Based on elimination of pedestals from both LPs and FS, revised anchor bolts are required per revision.**

| Task Description    | Quantity | Hours | Unit | Rate    | Subtotals                   | Comments                               |
|---------------------|----------|-------|------|---------|-----------------------------|--|
| <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) | 3.00     | 16.00 | Hrs. | \$21.00 | \$1,008.00                  |  |
| 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                      |  |
|                     |          |       |      |         | <b>Subtotal Labor Base:</b> | \$1,968.00                             |
|                     |          |       |      |         | Ind. Labor                  | \$298.15 15.15% payroll burden         |
|                     |          |       |      |         | <b>Subtotal Labor:</b>      | \$2,266.15                             |
|                     |          |       |      |         | O&P                         | \$0.00 O&P is on Base + Indirect Labor |
|                     |          |       |      |         | <b>TOTAL LABOR:</b>         | <b>\$2,266.15</b>                      |

| EQUIPMENT          | Quantity | Hours | Unit | Rate     | Subtotals                  | Comments              |
|--------------------|----------|-------|------|----------|----------------------------|-----------------------|
| Excavator          | 0.00     | 0.00  | Hrs. | \$115.85 | \$0.00                     |                       |
| Backhoe            | 0.00     | 0.00  | Hrs. | \$35.76  | \$0.00                     |                       |
| Skid Steer         | 0.00     | 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       | 0.00     | 8.00  | Hrs. | \$23.69  | \$0.00                     |                       |
| Small Tools        | 0.00     |       | Hrs. |          | \$0.00                     |                       |
| Service Truck      | 0.00     | 8.00  | Hrs. | \$31.26  | \$0.00                     | no service truck used |
| Pickup Truck       | 1.00     | 16.00 | Hrs. | \$28.26  | \$452.16                   |                       |
|                    |          |       |      |          | <b>Subtotal Equipment:</b> | \$452.16              |
|                    |          |       |      |          | O&P                        | \$0.00                |
|                    |          |       |      |          | <b>TOTAL EQUIPMENT:</b>    | <b>\$452.16</b>       |

| MATERIAL                       | Quantity | Supplier    | Unit | Unit \$  | Subtotals                 | Comments                 |
|--------------------------------|----------|-------------|------|----------|---------------------------|--------------------------|
| Anchor Bolts                   | 12.00    |             | LS   | \$531.00 | \$6,372.00                |                          |
| Conduits                       | 1.00     |             | LS   | \$50.00  | \$50.00                   | Supplier (United Rental) |
| to the County (Color Concrete) | -1.00    |             | LS   | \$160.23 | -\$160.23                 |                          |
| Dump Fee                       | 0.00     |             | EA   | \$190.00 | \$0.00                    |                          |
| Waterpumping                   | 0.00     | see comment | LS   | \$618.29 | \$0.00                    | Supplier (United Rental) |
| Forms and Miscellaneous        | 0.00     |             | LS   | \$100.00 | \$0.00                    |                          |
| Mix Bagged Concrete            | 0.00     |             | LS   | \$100.00 | \$0.00                    |                          |
|                                |          |             |      |          | <b>Subtotal Material:</b> | \$6,261.77               |
|                                |          |             |      |          | Price +6% Tax             | \$6,637.48               |
|                                |          |             |      |          | O&P                       | \$0.00                   |
|                                |          |             |      |          | <b>TOTAL MATERIAL:</b>    | <b>\$6,637.48</b>        |

| SUBCONTRACTOR | Quant. (in Day) | Hrs  | Unit \$  | Subtotals            | Comments                  |
|---------------|-----------------|------|----------|----------------------|---------------------------|
|               |                 | 0.00 | \$750.00 | \$0.00               | Sub (Liggie Surverys)     |
|               |                 | 0.00 | \$75.00  | \$0.00               | Sub (Trucking)            |
|               |                 | 0.00 | \$350.00 | \$0.00               | Sub (Dulles Geotechnical) |
|               |                 | 0.00 | \$0.00   | \$0.00               |                           |
|               |                 | 0.00 | \$0.00   | \$0.00               |                           |
|               |                 |      |          | <b>Subtotal Sub:</b> | \$0.00                    |
|               |                 |      |          | O&P                  | \$0.00                    |
|               |                 |      |          | <b>TOTAL SUB</b>     | <b>\$0.00</b>             |

|                       |                     |
|-----------------------|---------------------|
| SUBTOTAL L+E+M:       | \$9,355.79          |
| Bond                  | \$1,403.37          |
| <b>TOTAL L+E+M+S:</b> | <b>\$10,759.16</b>  |
| Roundup Each (Unit):  | \$10,760.00         |
| Total Each (Unit):    | 1                   |
| <b>CO TOTAL:</b>      | <b>\$ 10,760.00</b> |

Created by: S. Salihi, E.I.T, Resident Engineer,  
Checked by: A. Ronca, PE, 03/3/22

1. 2 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, 03/02/22

Ballston-MU Station Area Improvements Project  
Arlington County, VA

**PCO-21 Removal and Replacement of Dead Trees @Planter 10**

**Description of Change;**

Two trees were found dead in Planter-10 and per county direction need to be removed.

| 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                  |          |       |      |         | 0.00%           | \$0.00 O&P is on Base + Indirect Labor |
| <b>TOTAL LABOR</b>   |          |       |      |         | <b>\$566.54</b> |  |

| EQUIPMENT               | Quantity | Hours | Unit | Rate     | Subtotals       | Comments              |
|-------------------------|----------|-------|------|----------|-----------------|-----------------------|
| Excavator               | 0.00     | 0.00  | Hrs. | \$115.85 | \$0.00          |                       |
| Backhoe                 | 0.00     | 16.00 | Hrs. | \$35.76  | \$0.00          |                       |
| 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. | \$31.26  | \$125.04        | no service truck used |
| Pickup Truck            | 0.00     | 16.00 | Hrs. | \$28.26  | \$0.00          |                       |
| Subtotal Equipment:     |          |       |      |          | \$243.56        |                       |
| O&P                     |          |       |      |          | 0.00%           | \$0.00                |
| <b>TOTAL EQUIPMENT:</b> |          |       |      |          | <b>\$243.56</b> |                       |

| MATERIAL                | Quantity | Supplier    | Unit | Unit \$    | Subtotals     | Comments                 |
|-------------------------|----------|-------------|------|------------|---------------|--------------------------|
| Waterline Materials     | 0.00     | see comment | LS   | \$5,056.41 | \$0.00        | Supplier (Ferguson)      |
| Trench Box              | 0.00     | see comment | LS   | \$877.00   | \$0.00        | Supplier (United Rental) |
| Stone                   | 0.00     |             | TON  | \$21.50    | \$0.00        |                          |
| Dump Fee                | 0.00     |             | EA   | \$190.00   | \$0.00        |                          |
| Waterpumping            | 0.00     | see comment | LS   | \$618.29   | \$0.00        | Supplier (United Rental) |
| Forms and Miscellaneous | 0.00     |             | LS   | \$100.00   | \$0.00        |                          |
| Mix Bagged Concrete     | 0.00     |             | LS   | \$100.00   | \$0.00        |                          |
| Subtotal Material:      |          |             |      |            | \$0.00        |                          |
| Price +6% Tax           |          |             |      |            | \$0.00        |                          |
| O&P                     |          |             |      |            | 0.00%         | \$0.00                   |
| <b>TOTAL MATERIAL</b>   |          |             |      |            | <b>\$0.00</b> |                          |

| SUBCONTRACTOR               | Quant. (in Day) | Hrs | Unit \$    | Subtotals         | Comments         |
|-----------------------------|-----------------|-----|------------|-------------------|------------------|
| Tree Removal                | 2.00            |     | \$700.00   | \$1,400.00        | Sub (Excel Tree) |
| Replacement Tree Plantation | 1.00            |     | \$1,084.00 | \$1,084.00        | Sub (Dension)    |
|                             | 0.00            |     | \$0.00     | \$0.00            |                  |
|                             | 0.00            |     | \$0.00     | \$0.00            |                  |
| Subtotal Sub:               |                 |     |            | \$2,484.00        |                  |
| O&P                         |                 |     |            | 10.00%            | \$248.40         |
| <b>TOTAL SUB</b>            |                 |     |            | <b>\$2,732.40</b> |                  |

|                       |                    |          |
|-----------------------|--------------------|----------|
| SUBTOTAL L+E+M:       | \$810.10           |          |
| Bond                  | 15.00%             | \$121.51 |
| <b>TOTAL L+E+M+S:</b> | <b>\$3,664.01</b>  |          |
| Roundup Each (Unit):  | \$3,665.00         |          |
| Total Each (Unit):    | 1                  |          |
| <b>CO TOTAL:</b>      | <b>\$ 3,665.00</b> |          |

Created by: S. Salihi, E.I.T, Resident Engineer,  
Checked by: A. Ronca, PE, 03/02/22

- 0.5 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 D. Backup Documentation**



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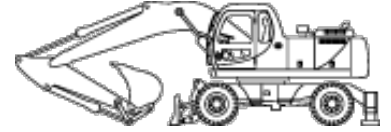
All prices shown in US\$

## 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 | <b>0.95 cu yd</b> | Net Horsepower | <b>123.0 hp</b> |
| Operating Weight         | <b>18.8 mt</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<br>Hourly | FHWA Rate**<br>Hourly |
|--|-------------------|-------------------|-----------------|----------------|-------------------------------------|-----------------------|
|  | Monthly           | Weekly            | Daily           | Hourly         |                                     |                       |
| Published Rates                          | \$10,185.00       | \$2,850.00        | \$715.00        | \$105.00       | \$46.65                             | \$104.52              |
| <b>Adjustments</b>                       |                   |                   |                 |                |                                     |                       |
| Region ( Virginia:<br>96.4%)             | (\$366.66)        | (\$102.60)        | (\$25.74)       | (\$3.78)       |                                     |                       |
| Model Year<br>(2006: 97.91%)             | (\$205.19)        | (\$57.42)         | (\$14.40)       | (\$2.12)       |                                     |                       |
| Adjusted Hourly<br>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

|              |        |         |
|--------------|--------|---------|
| Standby Rate | Hourly | \$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\$

## 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**

Model Image

### 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<br>Hourly | FHWA Rate**<br>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

|              |        |         |
|--------------|--------|---------|
| Standby Rate | Hourly | \$5.30  |
| Idling Rate  | Hourly | \$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 26" Saw in Concrete Saw

June 29, 2018

### Miscellaneous 7-20SPC

Concrete Saws

Size Class:

**19 - 36 HP**

Weight:

**N/A**

Model Image

### 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<br>Operating Costs<br>Hourly | FHWA Rate**<br>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,<br>District of Columbia:<br>106%) | \$72.60           | \$20.40         | \$5.10         | \$0.78         |  |                       |
| Model Year<br>(2018: 100%)                             | -                 | -               | -              | -              |  |                       |
| Adjusted Hourly<br>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

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www.equipmentwatch.com

All prices shown in US\$

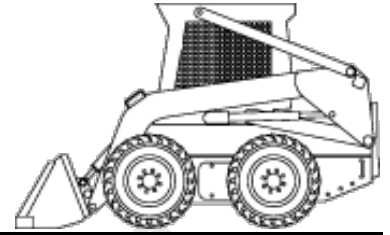
## Adjustments for Skid Steer 317 in Skid

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<br>Operating Costs<br>Hourly | FHWA Rate**<br>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,<br>District of Columbia:<br>106.2%) | \$150.35          | \$42.16         | \$10.54         | \$1.61         |  |                       |
| Model Year<br>(2010: 100%)                               | -                 | -               | -               | -              |  |                       |
| Adjusted Hourly<br>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

|              |               |
|--------------|---------------|
|              | <b>Hourly</b> |
| 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\$

**Rental Rate Blue Book®**

June 20, 2019

**Ford F-350**

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<br>Hourly | FHWA Rate**<br>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**

|              |               |
|--------------|---------------|
|              | <b>Hourly</b> |
| Standby Rate | \$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

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www.equipmentwatch.com

All prices shown in US\$

**Rental Rate Blue Book®**

June 19, 2019

**Lay-Mor 6HC/8HC**

Self Propelled Pavement Brooms

Size Class:

**All**

Weight:

**3100 UNKNOWN****Configuration for 6HC/8HC**

Horsepower **37.0** 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<br>Operating Costs<br>Hourly | FHWA Rate**<br>Hourly |
|--|-------------------|-----------------|-----------------|----------------|--|-----------------------|
|  | Monthly           | Weekly          | Daily           | Hourly         |  |                       |
| Published Rates  | \$2,235.00        | \$625.00        | \$155.00        | \$23.00        | \$13.75                                | \$26.45               |
| <b>Adjustments</b>                                       |                   |                 |                 |                |  |                       |
| Region ( Washington,<br>District of Columbia:<br>105.6%) | \$125.16          | \$35.00         | \$8.68          | \$1.29         |  |                       |
| Model Year<br>(2019: 100%)                               | -                 | -               | -               | -              |  |                       |
| Adjusted Hourly<br>Ownership Cost (100%)                 | -                 | -               | -               | -              |  |                       |
| Hourly Operating Cost (100%)                             |                   |                 |                 |                | -                                      |                       |
| <b>Total:</b>  | <b>\$2,360.16</b> | <b>\$660.00</b> | <b>\$163.68</b> | <b>\$24.29</b> | <b>\$13.75</b>                         | <b>\$27.16</b>        |

**Non-Active Use Rates**

Standby Rate **Hourly** \$5.63  
 Idling Rate **Hourly** \$17.89

**Rate Element Allocation**

| Element                  | Percentage | Value         |
|--------------------------|------------|---------------|
| Depreciation (ownership) | 31%        | \$692.85/mo   |
| Overhaul (ownership)     | 58%        | \$1,296.30/mo |
| CFC (ownership)          | 5%         | \$111.75/mo   |
| Indirect (ownership)     | 6%         | \$134.10/mo   |
| Fuel (operating) @ 3.27  | 33%        | \$4.48/hr     |

Revised Date: 1st half 2019

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

## **Arban Precast Stone, LTD.**

P.O. BOX 761  
DUMFRIES, VA 22026  
PHONE: 703-221-8005  
FAX: 703-445-1195

### **AGREEMENT FOR CHANGE ORDER**

**DATE:** February 7, 2022

**CHANGE ORDER #** 05

**CONTRACTOR:** Keys Materials & Utilities, Inc.

**ATTENTION:** Bijay

**PROJECT:** Ballston Multimodal Improvements

**JOB NUMBER:** 02026

**DATE OF REQUEST:** 2/4/2022

**PROJECT MANAGER:** Justin x 15

**REASON FOR REQUEST:** Remake precast benches on planters 3 and 4 due to field conditions.

**REQUIREMENT:** Fabricate A9, A10, A11, A12, A13, A14, A15, A16, C5, C6, C7, C8. Molds required. Shop drawing revisions.

**ADDITIONAL COST:** \$81,150.00 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**

## 5 items in your cart

Please complete 2 reservations

### Reservation 1 2 items=ARDENT COMPANY LLC 857212

- ✔ 1. Jobsite
- ✔ 2. Delivery & Pickup
- 3. Billing



Cat Class: 944-9946

**Steel Crossing Plates, 8 ft. by 20 ft.**

QTY: 2 at ~ \$302 each

Duration: 03/07/2022 - 03/11/2022

[Edit](#)   [Delete](#)   [Save for Later](#)

\$604

---

|                |   |   |                      |
|----------------|---|---|----------------------|
| <b>JOBSITE</b> | <b>BALLSTON JOB</b>                         | <b>Contact</b>  | <a href="#">Edit</a> |
|                | 901 N STUART ST<br>ARLINGTON, VA 22203-4418 | BIJAY SUBEDI<br>(703) 398-9489<br>BIJAY@ARDENTCOMPANY.COM |                      |



---

|                |  |                     |        |                      |
|----------------|--|---------------------|--------|----------------------|
| <b>RECEIVE</b> | <b>Deliver to Jobsite</b> + \$1,199    | <b>Mar 7, 2022</b>  | 8:00am | <a href="#">Edit</a> |
| <b>RETURN</b>  | <b>Request Pick-up Later</b> + \$1,199 | <b>Mar 11, 2022</b> | 8:00am |                      |

|                                    |                   |
|------------------------------------|-------------------|
| 2 Steel Crossing Plates, 8 ft. ... | \$604.00          |
| Deliver to Jobsite ⓘ               | \$1,199.60        |
| UR Pickup                          | \$1,199.60        |
| Tax                                | \$41.68           |
| Rental Protection Plan ⓘ           | \$90.60           |
| <b>Estimated Cost</b>              | <b>\$3,135.48</b> |

#### Exclusive rates, only online.

Rent online to access your negotiated contract rates and exclusive web rates on all your rentals.

|   |  |                          |  |
|---|--|--------------------------|--|
|                | Cat Class: 110-1580<br><b>Air Paving Breaker, 90 lb. class</b><br>QTY: 2 at ~ \$198 each<br>Duration: 03/07/2022 - 03/11/2022<br><br><a href="#">Edit</a> <a href="#">Delete</a> <a href="#">Save for Later</a>                    | WEB RATE<br><b>\$396</b> |  |
|                | Cat Class: 100-3185<br><b>Towable Air Compressor, 175-195 CFM, Diesel Powered</b><br>QTY: 1 at ~ \$370 each<br>Duration: 03/07/2022 - 03/11/2022<br><br><a href="#">Edit</a> <a href="#">Delete</a> <a href="#">Save for Later</a> | WEB RATE<br><b>\$370</b> |  |
| <b>JOBSITE</b> <b>BALLSTON JOB</b> <b>Contact</b> <a href="#">Edit</a>                          | 901 N STUART ST   BIJAY SUBEDI<br>ARLINGTON, VA 22203-4418   (703) 398-9489<br>BIJAY@ARDENTCOMPANY.COM   |                          |  |
| <b>RECEIVE</b> <b>Deliver to Jobsite</b> + \$240 <b>Mar 7, 2022</b> 8:00am <a href="#">Edit</a> |  |                          |  |
| <b>RETURN</b> <b>Request Pick-up Later</b> + \$240 <b>Mar 11, 2022</b> 8:00am                   |  |                          |  |

|                                    |                   |
|------------------------------------|-------------------|
| 2 Air Paving Breaker, 90 lb. cl... | \$396.00          |
| 1 Towable Air Compressor, 175-1... | \$370.00          |
| Deliver to Jobsite ⓘ               | \$240.70          |
| UR Pickup                          | \$240.70          |
| Environmental Fee ⓘ                | \$7.40            |
| Tax                                | \$53.29           |
| Rental Protection Plan ⓘ           | \$114.90          |
| Misc. Charges ⓘ                    | \$7.40            |
| <b>Estimated Cost</b>              | <b>\$1,430.39</b> |

**Exclusive rates, only online.**

Rent online to access your negotiated contract rates and exclusive web rates on all your rentals.





**LIGGIE SURVEYS INC.**  
JOB WELL DONE

5268 NICHOLSON LANE, SUITE G234  
KENSINGTON, MD 20895  
Phone: 202-702-7995  
Fax: 202-379-7995  
Email: mail@liggiesurveys.com  
Web: www.liggiesurveys.com

**CONSTRUCTION STAKEOUT PROPOSAL**

**CHANGE ORDER**

ARLINGTON COUNTY, VA

PREPARED BY : JKL

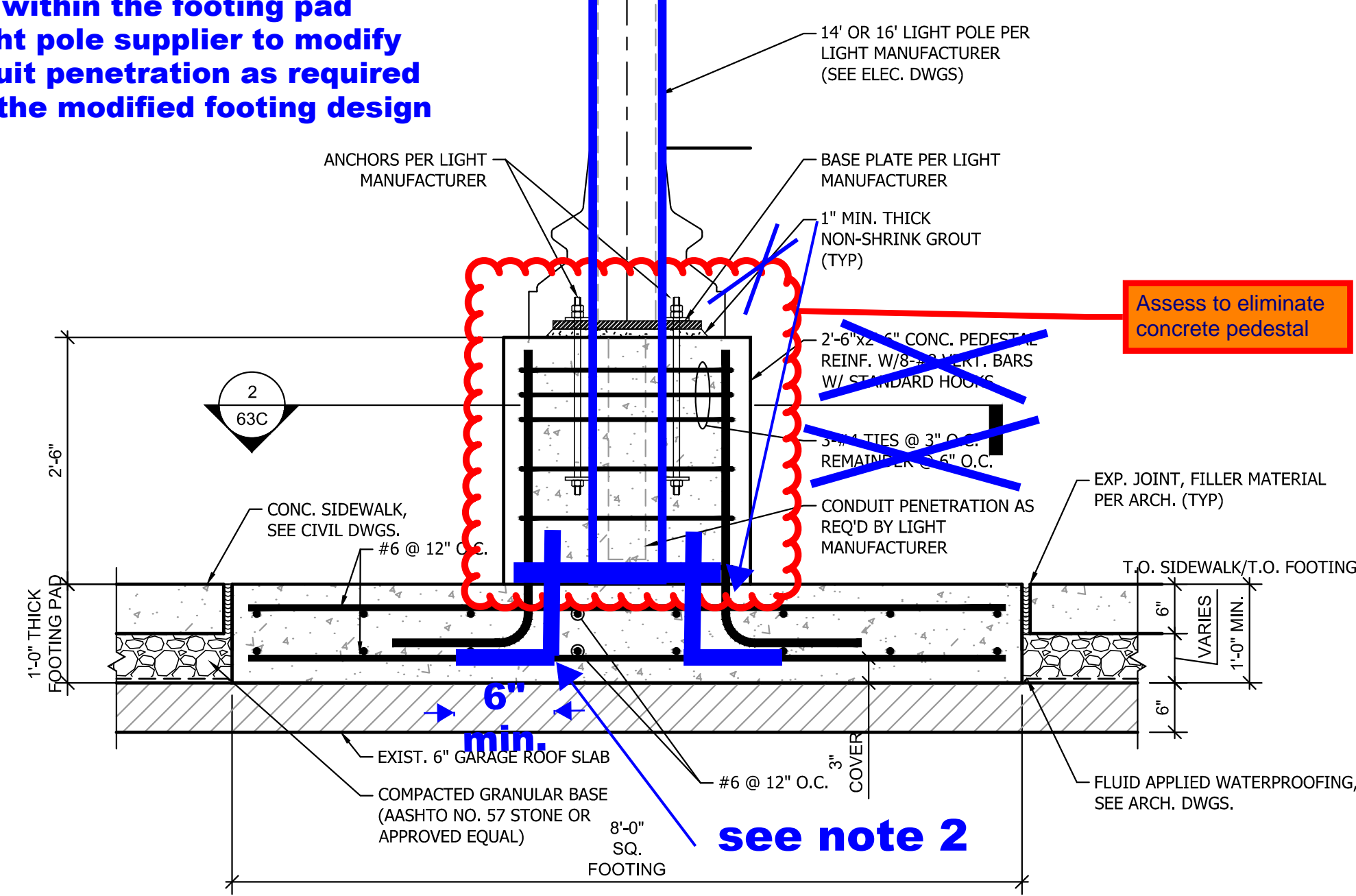
CHECKED BY : JKL

2/25/2022

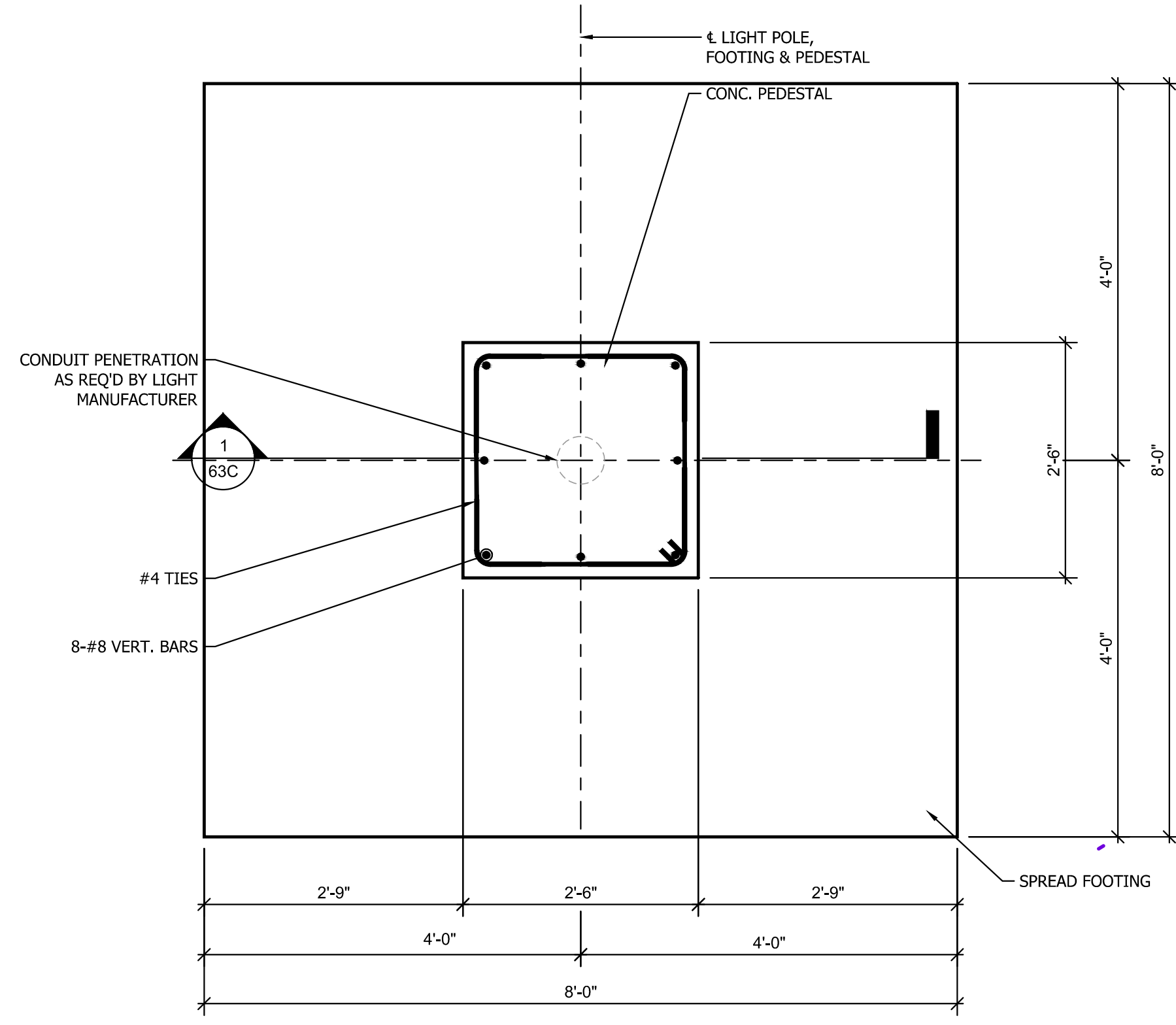
| ITEM             | DESCRIPTION  | FEE               |
|------------------|--|-------------------|
| 1                | RESURVEY PLANTER 3 AND 4, PROVIDE EXISTING INFORMATION AND RESTAE. | \$2,000.00        |
| <b>TOTAL FEE</b> |  | <b>\$2,000.00</b> |

| <b>RATES</b>                          |
|---------------------------------------|
| FIELD CREW = 130/HR                   |
| PROFESSIONAL LAND SURVEYOR = \$150/HR |

- 1. delete pedestal
- 2. light pole supplier to modify anchor bolts to fit within the footing pad
- 3. light pole supplier to modify conduit penetration as required with the modified footing design



1 SECTION - LIGHT POLE FOOTING (Revised)  
3/4" = 1'-0"



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



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  
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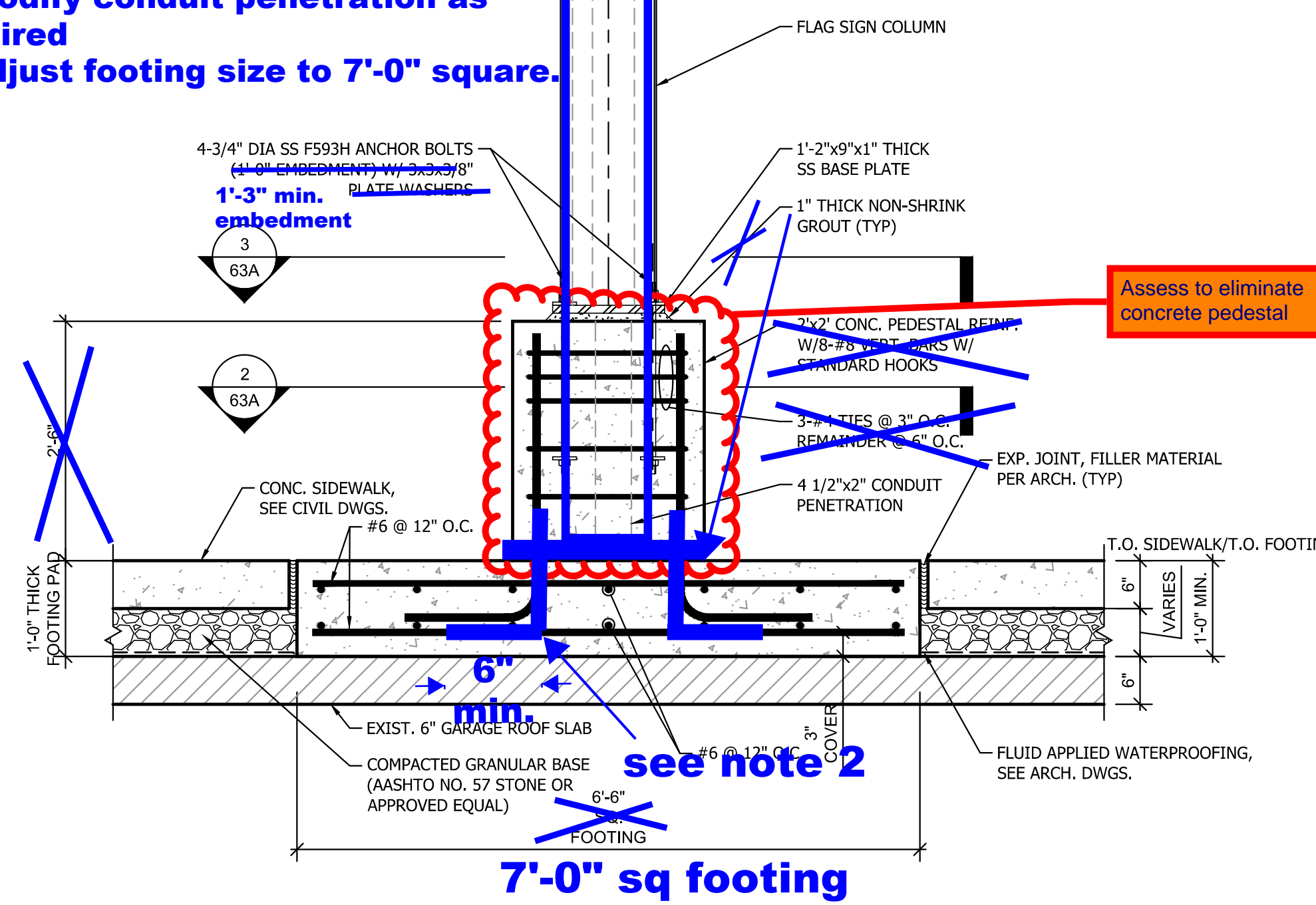


| Approvals                          | Date |
|------------------------------------|------|
| TRANSPORTATION DIRECTOR            |      |
| TRANSIT BUREAU CHIEF               |      |
| CONSTRUCTION COORDINATOR           |      |
| WATER, SEWER, STREETS BUREAU CHIEF |      |
| PROJECT MANAGER       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

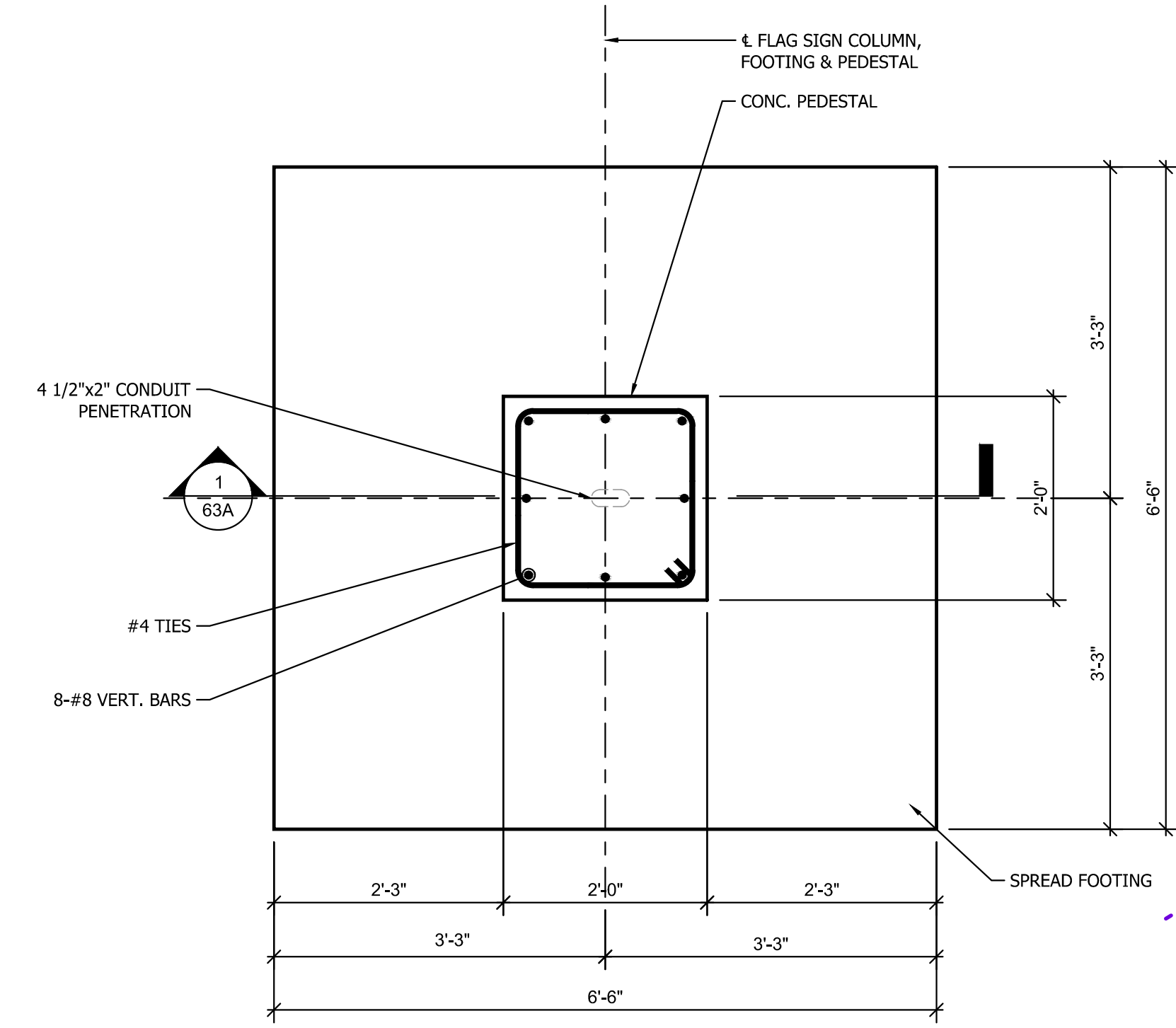
Project Name and Location  
**Light Pole Foundation Details**  
Ballston - MU Station  
Ballston - MU Multimodal Improvements  
###

Designed: D. SENGUPTA  
Drawn: J. CIRAFICI  
Checked: C. ROBERTS  
Miss Utility Transmittal #: ###  
Filename: 647881\_63C\_Light Pole Foundation Details  
Path: I:\Arlington Ballston MU Drawings\Stuart St Redesign Sheets  
Plotted: May 28, 2021  
Plotted by: p006957D  
Scale: 1" = 1'-0"

1. delete pedestal
2. Anchor bolts to be modified to fit within the footing pad
3. modify conduit penetration as required
4. adjust footing size to 7'-0" square.

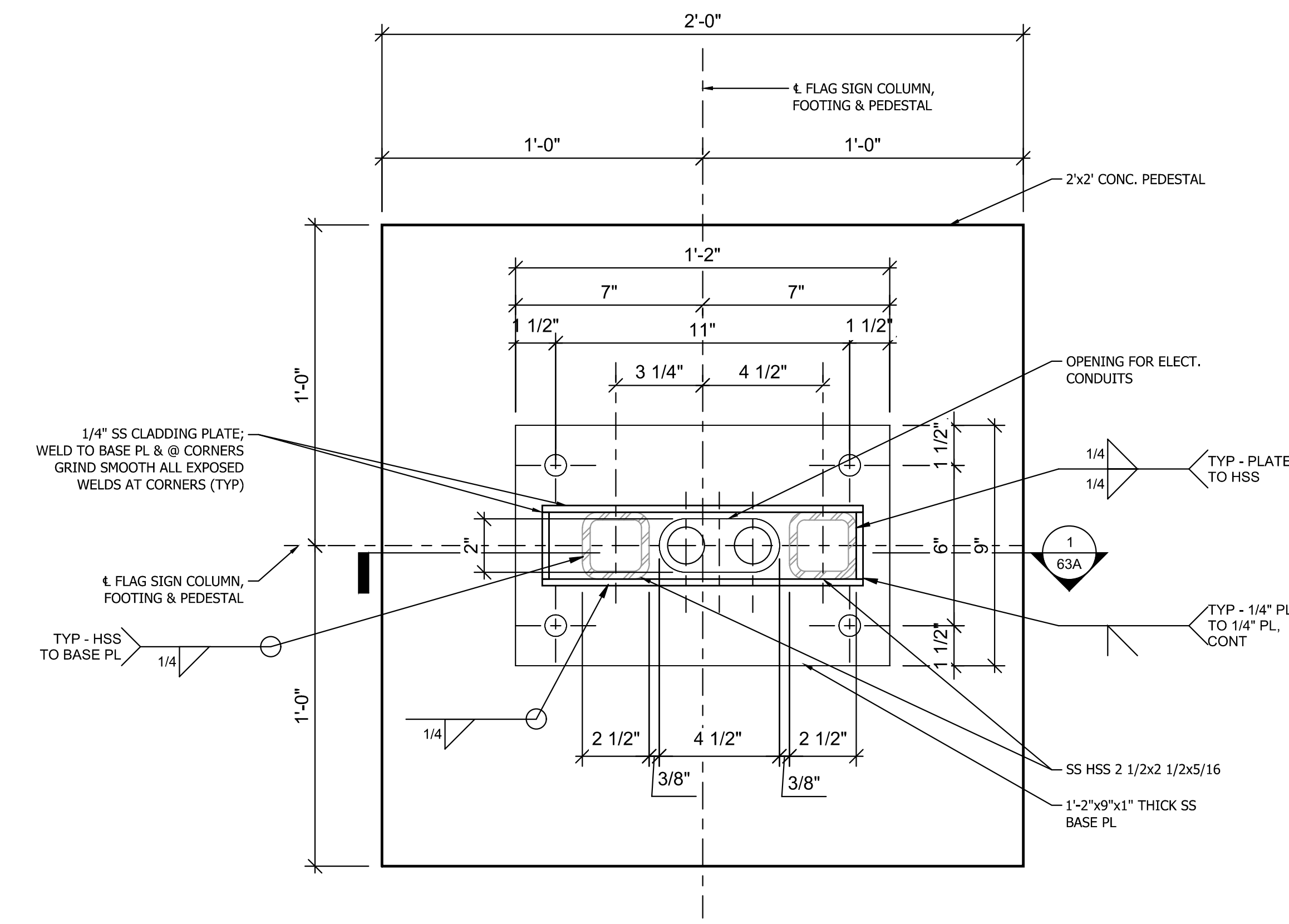


1 SECTION - FLAG SIGN FOOTING (Revised)  
3/4" = 1'-0"



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

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



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



| Approvals                          | Date    |
|------------------------------------|---------|
| TRANSPORTATION DIRECTOR            |         |
| TRANSIT BUREAU CHIEF               |         |
| CONSTRUCTION COORDINATOR           |         |
| WATER, SEWER, STREETS BUREAU CHIEF |         |
| PROJECT MANAGER                    |         |
| Revisions                          | Date    |
| Stuart St Redesign                 | 5/25/21 |

Project Name and Location  
**Sign Flag Foundation Details**  
Ballston - MU Station  
Ballston - MU Multimodal Improvements

Designed: D. SENGUPTA  
Drawn: C. RICE  
Checked: C. ROBERTS  
Miss Utility Transmittal #: #####  
Filename: 647881\_63A\_SignFoundation Details.dwg  
Path: I:\Arlington Ballston MU Drawings\Stuart St Redesign Sheets  
Plotted: May 26, 2021  
Plotted by: p006957D  
Scale: 1" = 1'-0"



**Traffic Systems & Technology**  
 7390 Merritt Park Dr  
 Suite 160  
 Manassas, VA 20109  
 Phone: (703) 530-9655

**QUOTATION**

Quote No. 13460 — 44664

**SWAM VENDOR# 663238**

|  |   |
|--|---|
| <b>Quoted To:</b><br><br>Ardent Company, LLC | <b>Project Information:</b><br><br>Project Location: Ballston-MU Multimodal Improvements<br>Project ID No.: 19-122-9<br>Contract ID No.:<br>City / Locale: Arlington VA |
|--|---|

**Due to current market conditions, lead times and costs are changing frequently. We will do our best to work with our customers to minimize the impact on any cost increases or longer lead times which are beyond our control. Pricing and lead times are subject to change within 30 days of quotation.**

- Notes:
- Freight is included.
  - Lead time is estimated at 5-6 weeks ARO.
- Page 1 of 1

|                                |                             |                      |                        |                                 |
|--------------------------------|-----------------------------|----------------------|------------------------|---------------------------------|
| <b>Quote Date</b><br>2/24/2022 | <b>Bid Date</b><br>2/5/2019 | <b>FOB</b><br>Origin | <b>Terms</b><br>Net 30 | <b>Created By</b><br>LISA.WILSO |
|--------------------------------|-----------------------------|----------------------|------------------------|---------------------------------|

**Credit Card Orders will incur a 3% processing fee**

| BID# | Description  | QTY | UNITS | UNIT PRICE | EXTENDED PRICE |
|------|--|-----|-------|------------|----------------|
|      | 316SS 3/4" X 12" X 31"<br>Notes: THREAD 3" ON 12" BEND<br>2SS NUTS | 24  | EA    | 119.00     | 2,856.00       |
|      | 316SS 3/4" X 12" X 42"<br>Notes: THREAD 3" ON 12" BEND<br>2SS NUTS | 24  | EA    | 146.51     | 3,516.24       |

**Terms & Conditions of this Quote:**

- Quoted prices will be held firm for 30 days. Prices subject to change if the order is not release within 60 days from the date of PO.
- Quotation based on quantities and design information provided at time of quotation. The customer is solely responsible for determining final acceptability of materials and quantities for the intended use. If quantities or design changes occur, TS&T reserves the right to adjust prices accordingly.
- The estimated lead time listed above is based on current factory schedule at the time of the quote. The estimated lead time from the date of release will be dependent on the factory's schedule at that time.
- Payment terms are net 30 days from date of invoice. Payments not received within 45 days shall be charged 1.5% (18% APR) per month until paid in full. Any material not paid within 75 days will be cause to notify the general contractor, bonding company, and state of non-payment.
- Statements, terms, or agreements not contained herein shall have NO affect unless signed by an officer of TS&T.
- It is the customer's responsibility to notify TS&T of any completion dates at time of order. TS&T will not be held accountable for any "liquidated damages" or "penalties" for late shipments, unless agreed to by both parties in writing prior to order entry.
- All NEW customers will be required to pay 50% at time of order and balance will paid prior to material being shipped.
- The warranty for all products are the explicit warranty from the manufacturer as stated on their literature. TS&T does NOT provide additional warranties for any products unless specifically stated on this quote.
- If material covered in this quotation is not approved, TS&T is not responsible or required to provide material that is acceptable to the owner and will not be responsible for any cost increases by the contractor

Authorized Signature: \_\_\_\_\_ Date: \_\_\_\_\_  
 \*\*\*Please fax a copy of signed quote with your PO#, this will assure no delays to your order.

|                     |                 |
|---------------------|-----------------|
| Merchandise Total   | 6,372.24        |
| Total Misc. Charges | 0.00            |
| Sales Tax           | Not Included    |
| <b>TOTAL</b>        | <b>6,372.24</b> |



**EXCEL TREE EXPERT CO, INC**

**7549 Montevideo Road  
Jessup, MD 20794**

**(410) 799-3266**

Fax (410) 799-3663

TIN 52-1383635 MHIC# 26659 MD TREE EXPERT #209

Mmbr:TCIA MAA & ISA

# Proposal

**Date**

2/4/2022

**Estimate No.**

15708

|   |
|---|
| <b>Name/Address</b>                                     |
| Ardent Company<br>PO Box 879<br>McClellan VA 22101-0879 |

|                      |
|----------------------|
| <b>Jobsite</b>       |
| 901 N. Stuart Street |

|                       |                            |                     |                        |
|-----------------------|----------------------------|---------------------|------------------------|
| <b>Customer Phone</b> | <b>Customer Alt. Phone</b> | <b>Customer Fax</b> | <b>Customer E-mail</b> |
| 703-288-3250          | 703-677-7665               |                     | leo@ardentcompany.com  |

| <b>Description</b>   | <b>Total</b> |
|--|--------------|
| Remove (2) dead willow oak trees, 14" & 11.5" diameter.<br>Remove all wood & debris.<br><br>*Remove Christmas lights from both trees and leave onsite.<br><br>All trees to be clearly marked by GC before job commencement.<br><b>MOT to be by GC.</b><br>GC is responsible for obtaining all permits.<br>Any hand digging due to Miss Utility conflicts is to be the responsibility of GC.<br>Includes dump fees.<br>Does not include any trash removal.<br>Does not include night or weekend work.<br>GC to pay fee \$1,500 per day or any part of day thereof IF crew shows up and cannot work due to factors beyond our control that are not weather related.<br>Maximum of 5% retainage to be held.<br>Additional charge if waiver of subrogation is required on insurance certificate (with a minimum of \$500). | 1,400.00     |

|  |                         |
|--|-------------------------|
| To be placed on our schedule please SIGN, DATE and RETURN 1 copy. Keep one for your records. Thanks! | <b>Total</b> \$1,400.00 |
|--|-------------------------|

**Terms:** Payment due upon completion

*Payment due on completion of work. 1.5% monthly interest will be assessed to unpaid invoices 30 days after the due date. MC, Visa, Amex & Discover accepted. Not responsible for minor lawn or pavement damage.*

Marty Levine, Will Craft  
ISA Certified Arborists & Lic MD Tree Experts

MLL

Your acceptance signature & date \_\_\_\_\_ Typed by cu



# DENISON LANDSCAPING, INC.

MAIN OFFICE  
8911 OXON HILL ROAD  
FORT WASHINGTON, MD 20744  
PHONE: (301)567-0210

EASTERN SHORE OFFICE  
35811 PROVIDENCE CHURCH ROAD  
DELMAR, DE 19940  
FAX: (301)839-9138

Date: February 16, 2022  
To: Ardent  
Re: Ballston Metro  
Attn: Bijay

## PCO-10557-001

| QTY                        |  | Size    | UNIT PRICE   | TOTAL             |
|----------------------------|--|---------|--------------|-------------------|
| <b>2 replacement trees</b> |  |         |              |                   |
| 2                          | Willow oak                                   | 2-2.5"  | \$290.00     | \$580.00          |
| 4                          | Hardwood mulch, 3" depth                     | Cu. Yd. | \$54.00      | \$216.00          |
| 4                          | Import and spread soil ammendments, 4" depth | Cu. Yd. | \$72.00      | \$288.00          |
|                            |  |         |              |                   |
|                            |  |         | <b>Total</b> | <b>\$1,084.00</b> |

Submitted by Denison Landscaping

Vance Deniston, Sr. Project Manager

Accepted by

Ardent Construction



## LETTER OF TRANSMITTAL

**To:** Parsons

**Date:** 02/04/22

**Our Job No.:**

**File Code:**

**Your Job No.:**

**Attention:** J. Thomas

**Reference:** Arlington Cty. Construction Contract 20-110-9-6  
Ballston MU Metro Station Area Improvements

|                        |  |   |   |   |
|------------------------|--|---|---|---|
| <b>We are sending:</b> | <input checked="" type="checkbox"/> Attached | <input type="checkbox"/> Under Separate Cover |   |   |
| <b>via:</b>            | <input type="checkbox"/> Overnight           | <input checked="" type="checkbox"/> Email     | <input type="checkbox"/> US Mail          | <input type="checkbox"/> Courier        |
| <b>the following:</b>  | <input type="checkbox"/> Shop Drawings       | <input type="checkbox"/> Prints               | <input checked="" type="checkbox"/> RFI   | <input type="checkbox"/> E-Media        |
|                        | <input type="checkbox"/> Change Order        | <input type="checkbox"/> Copy of Letter       | <input type="checkbox"/> Reports          | <input type="checkbox"/> Specifications |
|                        | <input type="checkbox"/> Cost Estimates      | <input type="checkbox"/> Submittal            | <input type="checkbox"/> Other: See Below |   |

| Item No. | Rev. No. | Quantity | Description                                      | Code   |
|----------|----------|----------|--|--------|
| 1        | 0        | 1        | RFI No. 46 Elimination of pedestal for LP and FS | A,B, F |

|                      |                                |                 |                           |                 |
|----------------------|--------------------------------|-----------------|---------------------------|-----------------|
| <b>Action Codes:</b> | A. Remarks on item transmitted | C. For your use | E. For information only   | G. For approval |
|                      | B. See remarks below           | D. As requested | F. For review and comment |                 |

### Remarks:

In terms of ADA and accessibility and to eliminate all obstacles which will generate issues down the road (liabilities, ADA, and etc...), County wants to eliminate concrete pedestals for both flag signs and light poles foundations @phase-2 along N. Stuart St. To do this, we kindly request Parsons to reassess FS and LP foundations design per existing site condition and provide your recommendation.

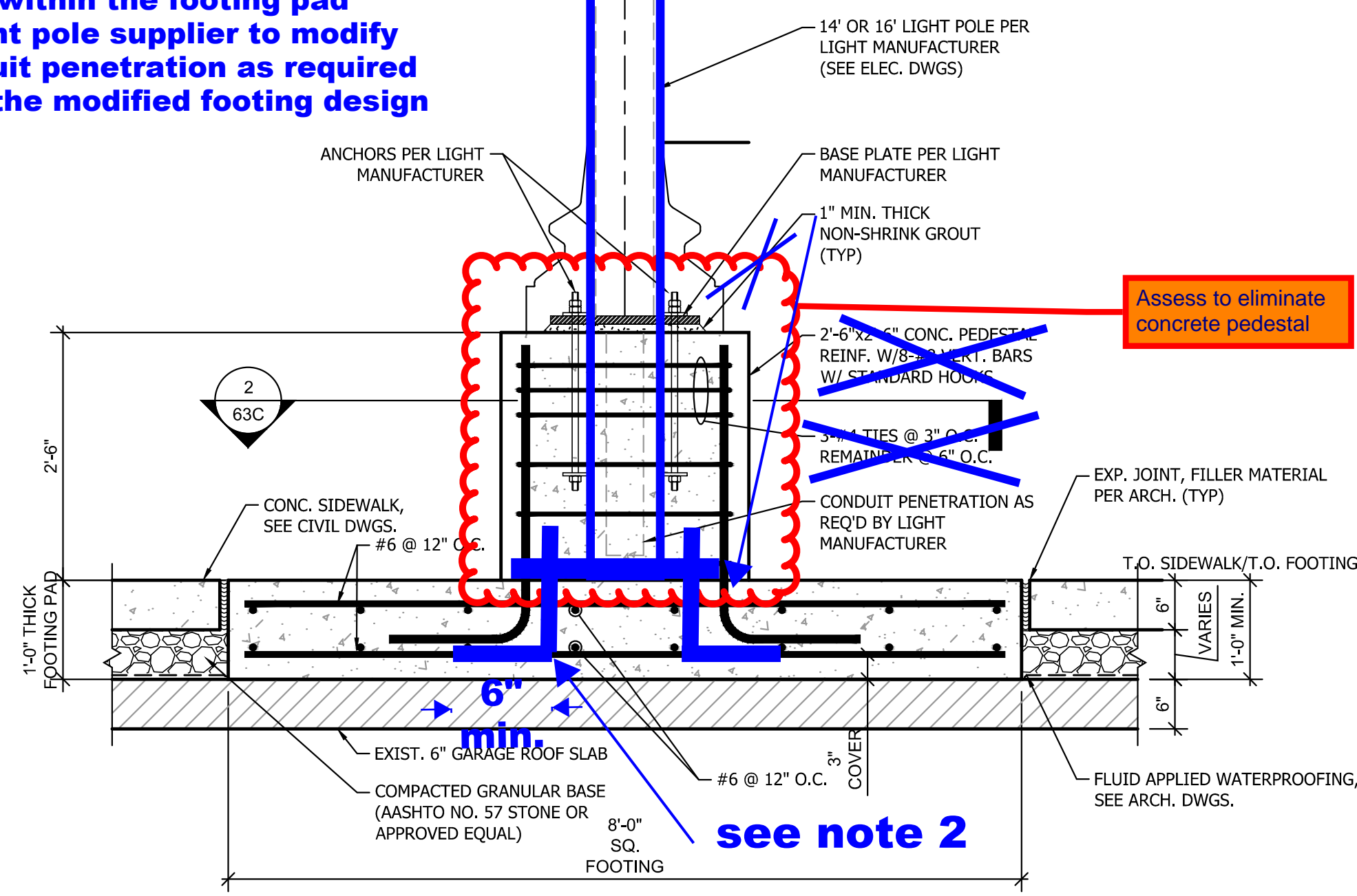
**Copies To:** Elizabeth R. McElhenny (EM) Transit Capital Prog. Mngr.  
Dara Soum, PE, PM – Arlington County  
Mark Mainardi, PM - Arlington County  
James R. Thomas, PE-Parson  
Alfonso Ronca, PE, PM-Arden  
Demeke. A Bezabh, Inspector - STV  
File

**Signed:**

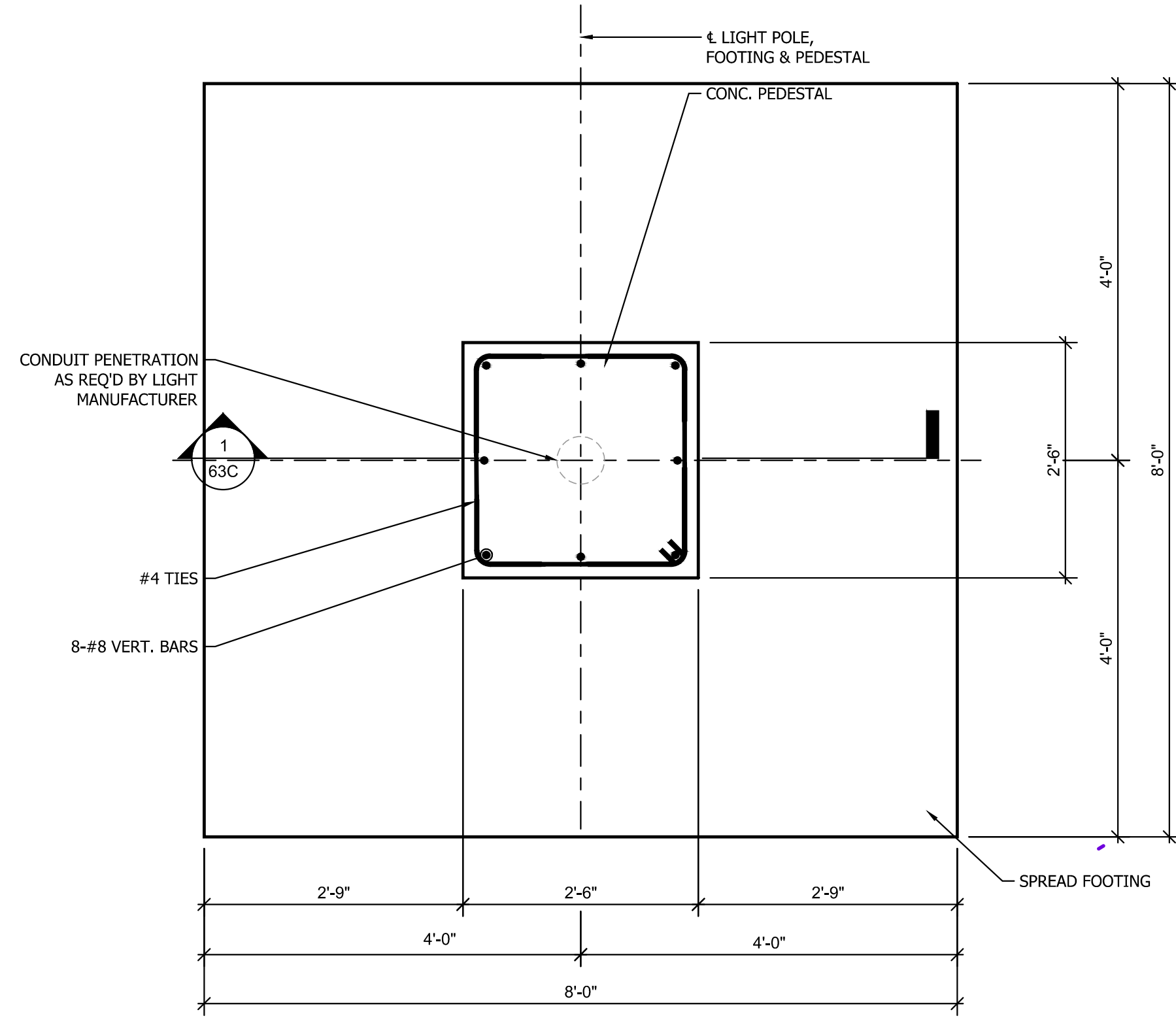
Sekander Salihi, E.I.T  
Resident Engineer, STV

Markups of the attached construction drawings are provided by the EOR in BLUE.  
- Dan Sengupta, P.E. (02.04.2022)

- 1. delete pedestal
- 2. light pole supplier to modify anchor bolts to fit within the footing pad
- 3. light pole supplier to modify conduit penetration as required with the modified footing design



1 SECTION - LIGHT POLE FOOTING (Revised)  
3/4" = 1'-0"



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

Seal



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

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

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

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

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

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

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

Project Name and Location  
Light Pole Foundation Details

Ballston - MU Station  
Ballston - MU Multimodal Improvements

###

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

Filename: 647881\_63C\_Light Pole Foundation Details  
Path: I:\Arlington Ballston MU Drawings\Stuart St Redesign Sheets

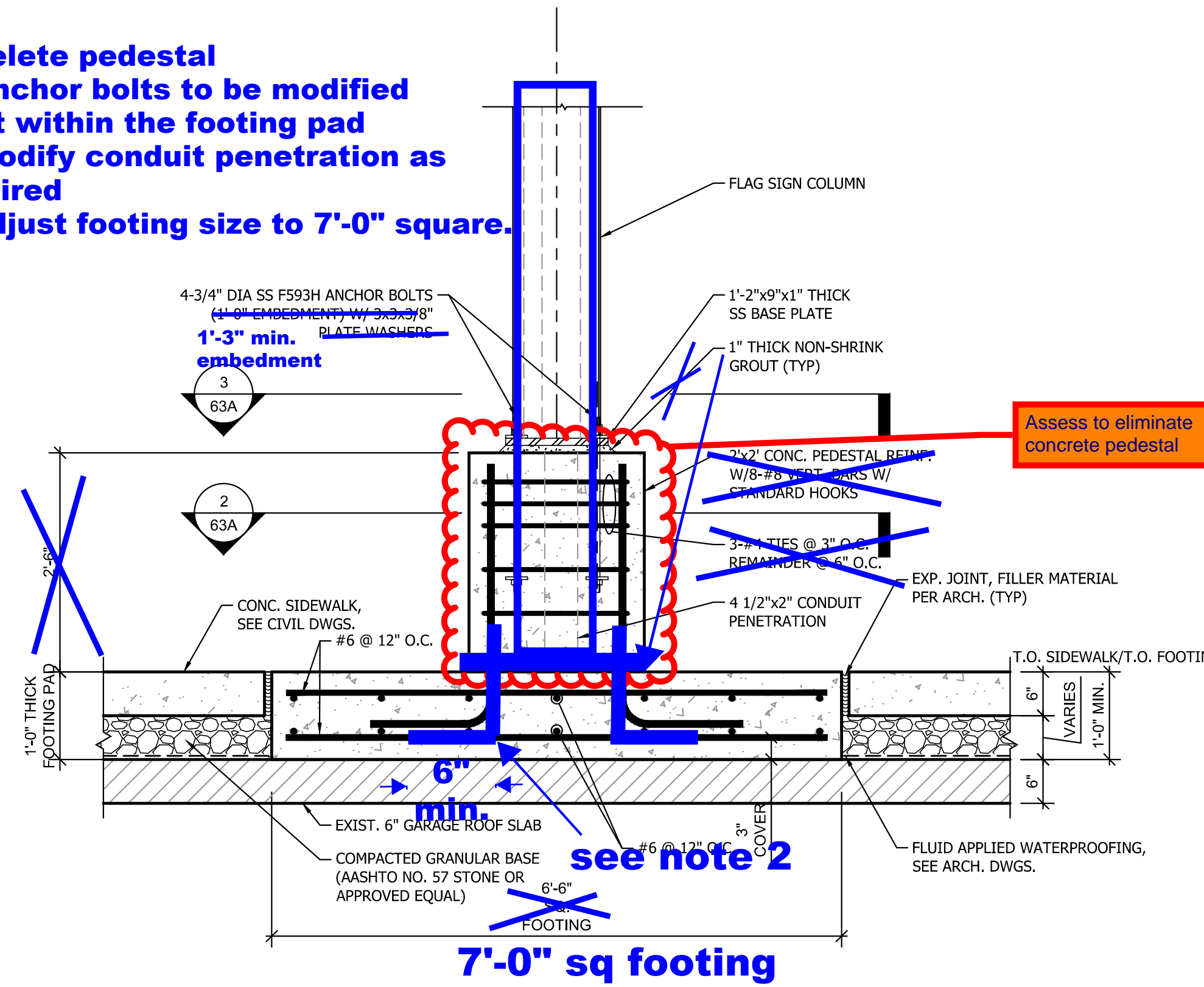
Plotted: May 28, 2021

Plotted by: p006957D

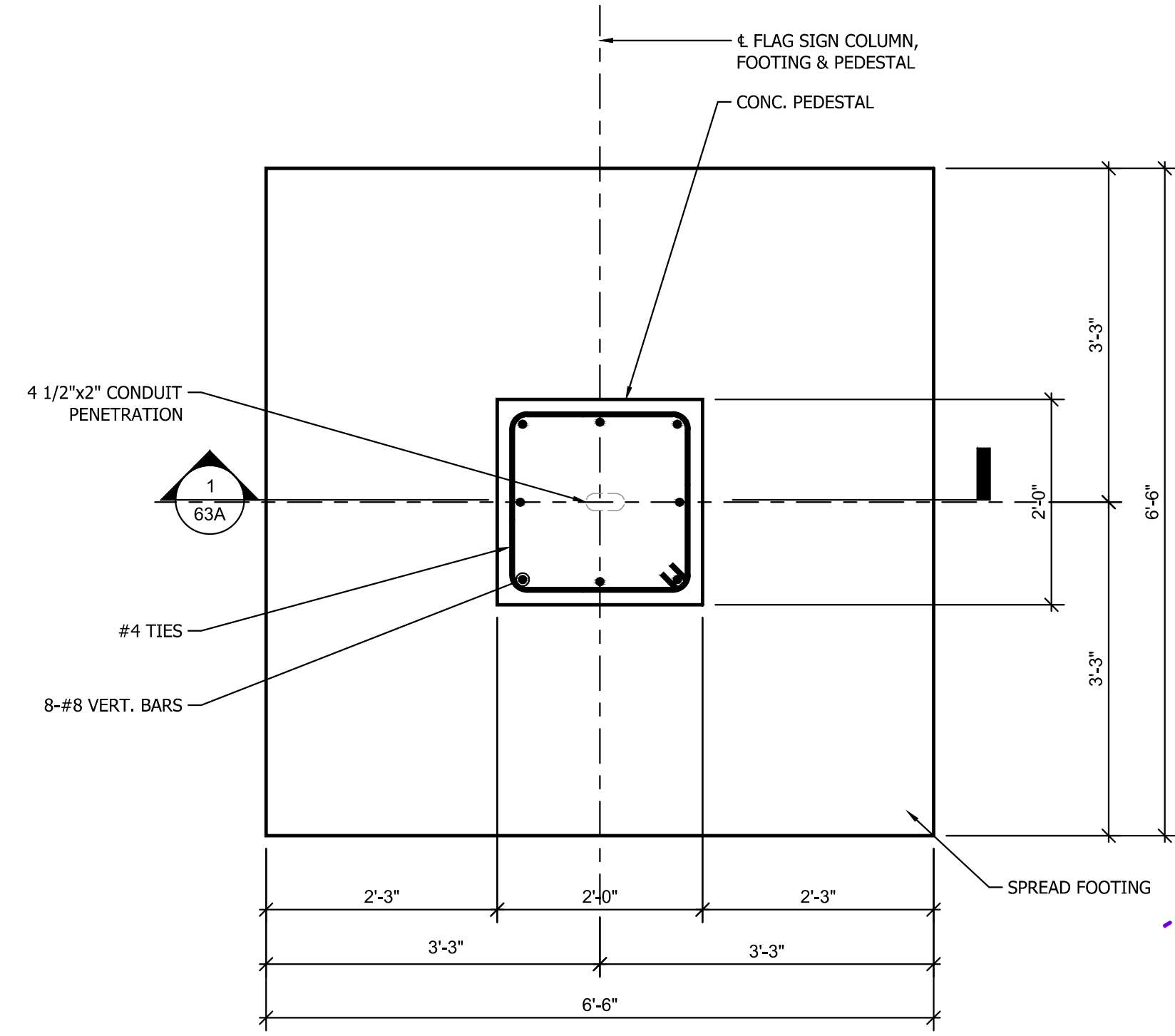
Scale: 1" = 1'-0"



1. delete pedestal
2. Anchor bolts to be modified to fit within the footing pad
3. modify conduit penetration as required
4. adjust footing size to 7'-0" square.

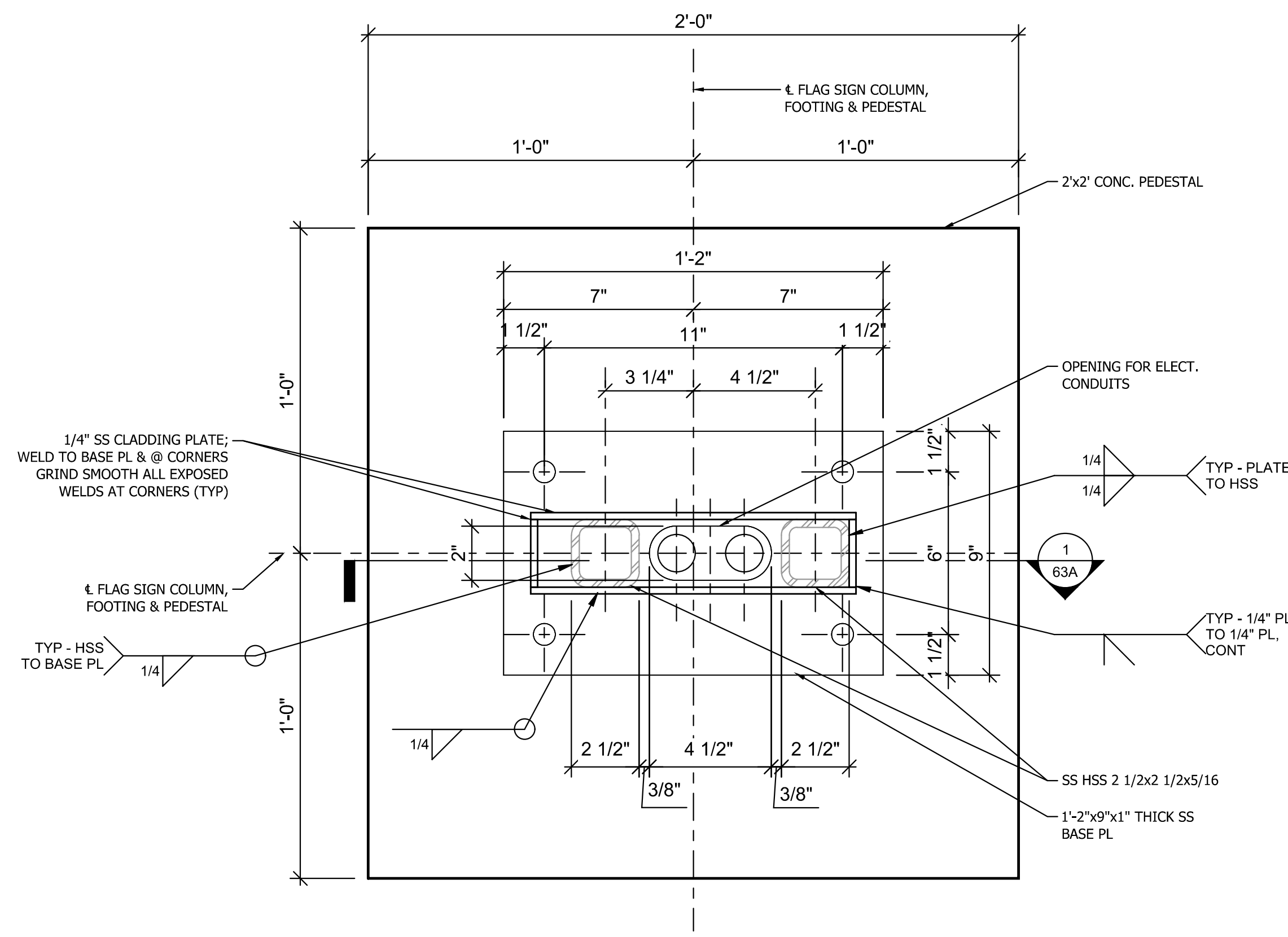


1 SECTION - FLAG SIGN FOOTING (Revised)  
3/4" = 1'-0"



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

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



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



| Approvals                          | Date    |
|------------------------------------|---------|
| TRANSPORTATION DIRECTOR            |         |
| TRANSIT BUREAU CHIEF               |         |
| CONSTRUCTION COORDINATOR           |         |
| WATER, SEWER, STREETS BUREAU CHIEF |         |
| PROJECT MANAGER                    |         |
| Revisions                          | Date    |
| Stuart St Redesign                 | 5/25/21 |

Project Name and Location  
**Sign Flag Foundation Details**  
Ballston - MU Station  
Ballston - MU Multimodal Improvements

Designed: D. SENGUPTA  
Drawn: C. RICE  
Checked: C. ROBERTS  
Miss Utility Transmittal #: #####  
Filename: 647881\_63A\_SignFoundation Details.dwg  
Path: I:\Arlington Ballston MU Drawings\Stuart St Redesign Sheets  
Plotted: May 26, 2021  
Plotted by: p006957D  
Scale: 1" = 1'-0"

## Salihi, Sekander

---

**From:** Vincent Verweij <Vverweij@arlingtonva.us>  
**Sent:** Monday, December 13, 2021 12:40 PM  
**To:** Salihi, Sekander; Salihi, Sekander; Bezabh, Demeke A.; Bijay Subedi  
**Cc:** Ronca, Alfonso; Mark Mainardi  
**Subject:** RE: Condition of Existing Trees @ Planter 9 & 10

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

Hi Sekander,

Thanks for meeting with me this morning.

Two of the trees we inspected were dead. Please plan on the following:

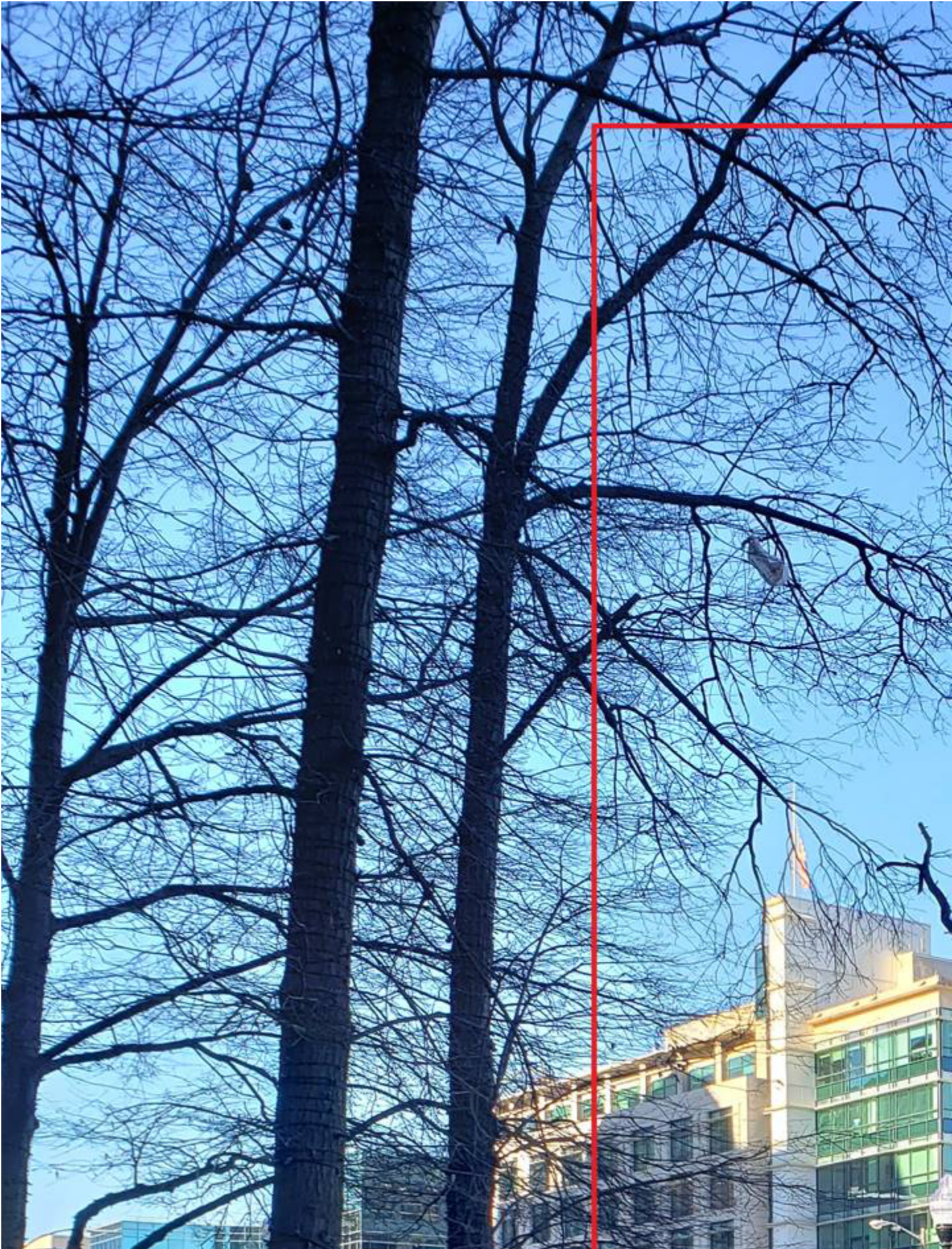
1. Remove the 2 dead willow oak trees. See attached pictures
2. Plant 2 replacement trees, 2-2.5 inch willow oaks (*Quercus phellos*) within 2 ft of the original tree locations, and plan to water.













Vincent Verweij, ISA (MA-5379A), TRAQ  
Urban Forest Manager, Arlington County Department of Parks and Recreation  
2700 S Taylor Street, Arlington, VA 22206  
Phone: 703-228-1863  
Cell: 571-436-0038  
Pronouns: He/Him/His

We are updating our Urban Forest Master Plan. Provide your Input here!

<https://projects.arlingtonva.us/fnrp/>

[Schedule tree maintenance requests here](#)

[Schedule construction inspections here](#)

*Any email sent to/from Arlington County email addresses may be subject to disclosure under the Freedom of Information Act (FOIA).*

-----Original Appointment-----

**From:** Salihi, Sekander <Sekander.Salihi@stvinc.com>

**Sent:** Thursday, December 9, 2021 10:30 AM

**To:** Salihi, Sekander; Vverweij@arlingtonva.us; Bezabh, Demeke A.; Bijay Subedi

**Cc:** Ronca, Alfonso; Mark Mainardi

**Subject:** Condition of Existing Trees @ Planter 9 & 10

**When:** Monday, December 13, 2021 11:30 AM-12:00 PM (UTC-05:00) Eastern Time (US & Canada).

**Where:** BMU project site

**EXTERNAL EMAIL**

Hi Vincent,

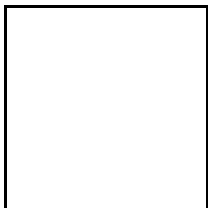
It was very nice talked to you this morning, let's meet @ job site on Monday (12/13/21) @11:30Am to review the condition of existing trees @ planter 9 & 10.

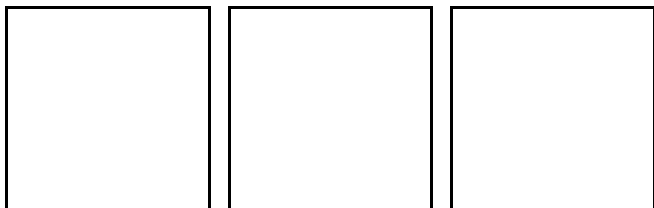
Regards,  
Sekander Salihi

---

Please consider the environment before printing this e-mail.

Redesigned and rebuilt: visit our new website at [www.stvinc.com](http://www.stvinc.com)





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