



# County of Roanoke

## FINANCE DEPARTMENT PURCHASING DIVISION

Dawn M. Rago, Buyer  
5204 Bernard Drive SW, Suite 300 F  
Roanoke VA 24018  
(540) 283-8150  
(540) 561-2827 – Fax  
[drago@roanokecountyva.gov](mailto:drago@roanokecountyva.gov)

February 1, 2021

**IFB #2020-082**

**Plantation Road Phase 2**

for

Roanoke County

### **ADDENDUM NO. 3**

**Extension of Due Date and Pre-Bid Meeting, Answers to Questions**

Due Date & Time:

**Tuesday, February 16, 2021 2:00PM**  
**(Local Prevailing Time)**

**Addendum No. 3**  
**IFB 2020-082**

Response to questions:

1. I noticed that the landscape plans were not part of the bid documents, however there are bid items included on the Bid Form for the plantings. Will the landscape plans be issued through an addendum?

Answer: Yes, Sheets 9(3), 9(4), and 9(5) are added by this addendum.

2. The drawings state that it is up to the contractor to verify the existing loading with VDOT. Can you provide the existing pole drawings so the contractors can review? Also, is the VDOT Engineer going to approve/verify at no cost to the contractor?

Answer: Project design has been coordinated with, and approved through, VDOT Salem District. Contractor will need to do the same for construction (obtaining existing pole drawings and calculations, approvals for proposed construction features, etc.). There are no costs to the Contractor for VDOT coordination and/or reviews to obtain necessary approvals.

3. The bid requires the contractor to use the existing conduits. Have the existing conduits been verified as usable?

Answer: Contractor shall verify conduit conditions in the field. If conduits are found to be unusable, the Contractor shall notify the Owner immediately.

4. The contract requires the contractor to remove existing signal heads, will you be adding a line item?

Answer: A Bid Item for this has been added. See Revised Bid Form included with this Addendum.

5. Due to adding pedestrian signals will you be adding a line item to modify the existing controller?

Answer: A Bid Item for this has been added. See Revised Bid Form included with this Addendum.

6. The documents state the pedestrian pushbuttons will be mounted via PA-4. According to the drawings they are mounted via PA-2. If pedestrian head, pushbutton, and sign are mounted on the 10' pedestal pole this will be the PA-2 and the PA-4 is the pedestrian pushbutton and sign mounted on a 5ft pedestal pole (including foundation) and the pedestrian head mounted on a signal pole or 10ft pedestal pole.

Answer: Project design has been coordinated with, and approved by. VDOT Salem District utilizing VDOT Standard PA-4 Push-Button Mounting on VDOT Standard PF-2 Pedestal Poles.

**Addendum No. 3**  
**IFB 2020-082**

7. Temporary and/or permanent relocation of mailboxes is part of, and incidental, to the Work. Contractor shall coordinate relocation with the business and the U.S. Postal Service.
8. Please be advised that the Bid Due Date of Friday, February 12, 2021 at 2:00 PM is hereby been revised to Tuesday, February 16, 2021 at 2:00 PM, prevailing time.
9. Temporary Seeding and Permanent Seeding – Contractor’s attention is directed to Sheet 2B(1) of the Plans for Temporary and Permanent Seeding Specifications. For Permanent Seeding, the Contractor shall utilize “Minimum Care Lawn – Commercial or Residential”.
10. VDOT Civil Rights Hand Outs are included in this Addendum.

**\*\*\*REQUIRED\*\*\***

**\*\*\*Sign and return with your bid package\*\*\***

\_\_\_\_\_  
**Sign Name:**

\_\_\_\_\_  
**Print Name:**

\_\_\_\_\_  
**Date:**

\_\_\_\_\_  
**Company**

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**BID FORM**

**COUNTY OF ROANOKE**

**ROANOKE, VA**

**PLANTATION ROAD, BICYCLE, PEDESTRIAN, AND STREETScape IMPROVEMENTS PHASE 2 PROJECT**

**VDOT UPC #111366**

**State Project No.: 0115-080-911, P101, R201, C501**

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## ARTICLE 1 – BID RECIPIENT

1.01 This Bid is submitted to:

***Finance Department Purchasing Division, County of Roanoke, VA, 5204 Bernard Drive, Suite 300F, Roanoke, VA 24018***

1.02 The undersigned Bidder proposes and agrees, if this Bid is accepted, to enter into an Agreement with Owner in the form included in the Bidding Documents to perform all Work as specified or indicated in the Bidding Documents for the prices and within the times indicated in this Bid and in accordance with the other terms and conditions of the Bidding Documents.

## ARTICLE 2 – BIDDER’S ACKNOWLEDGEMENTS

2.01 Bidder accepts all of the terms and conditions of the Instructions to Bidders, including without limitation those dealing with the disposition of Bid security. This Bid will remain subject to acceptance for 60 days after the Bid opening, or for such longer period of time that Bidder may agree to in writing upon request of Owner.

## ARTICLE 3 – BIDDER’S REPRESENTATIONS

3.01 In submitting this Bid, Bidder represents that:

A. Bidder has examined and carefully studied the Bidding Documents, and any data and reference items identified in the Bidding Documents, and hereby acknowledges receipt of the following Addenda:

| <u>Addendum No.</u> | <u>Addendum, Date</u> |
|---------------------|-----------------------|
| _____               | _____                 |
| _____               | _____                 |
| _____               | _____                 |
| _____               | _____                 |

B. Bidder has visited the Site, conducted a thorough, alert visual examination of the Site and adjacent areas, and become familiar with and satisfied itself as to the general, local, and Site conditions that may affect cost, progress, and performance of the Work.

C. Bidder is familiar with and has satisfied itself as to all Laws and Regulations that may affect cost, progress, and performance of the Work.

D. Bidder has carefully studied all: (1) reports of explorations and tests of subsurface conditions at or adjacent to the Site and all drawings of physical conditions relating to existing surface or subsurface structures at the Site that have been identified in the Supplementary Conditions, especially with respect to Technical Data in such reports and drawings, and (2) reports and drawings relating to Hazardous Environmental Conditions, if any, at or adjacent to the Site that have been identified in the Supplementary Conditions, especially with respect to Technical Data in such reports and drawings.

E. Bidder has considered the information known to Bidder itself; information commonly known to contractors doing business in the locality of the Site; information and observations obtained from visits to the Site; the Bidding Documents; and any Site-related

reports and drawings identified in the Bidding Documents, with respect to the effect of such information, observations, and documents on (1) the cost, progress, and performance of the Work; (2) the means, methods, techniques, sequences, and procedures of construction to be employed by Bidder; and (3) Bidder's safety precautions and programs.

- F. Bidder agrees, based on the information and observations referred to in the preceding paragraph, that no further examinations, investigations, explorations, tests, studies, or data are necessary for the determination of this Bid for performance of the Work at the price bid and within the times required, and in accordance with the other terms and conditions of the Bidding Documents.
- G. Bidder is aware of the general nature of work to be performed by Owner and others at the Site that relates to the Work as indicated in the Bidding Documents.
- H. Bidder has given Engineer written notice of all conflicts, errors, ambiguities, or discrepancies that Bidder has discovered in the Bidding Documents, and confirms that the written resolution thereof by Engineer is acceptable to Bidder.
- I. The Bidding Documents are generally sufficient to indicate and convey understanding of all terms and conditions for the performance and furnishing of the Work.
- J. The submission of this Bid constitutes an incontrovertible representation by Bidder that Bidder has complied with every requirement of this Article, and that without exception the Bid and all prices in the Bid are premised upon performing and furnishing the Work required by the Bidding Documents.

#### ARTICLE 4 – BIDDER'S CERTIFICATION

##### 4.01 Bidder certifies that:

- A. This Bid is genuine and not made in the interest of or on behalf of any undisclosed individual or entity and is not submitted in conformity with any collusive agreement or rules of any group, association, organization, or corporation;
- B. Bidder has not directly or indirectly induced or solicited any other Bidder to submit a false or sham Bid;
- C. Bidder has not solicited or induced any individual or entity to refrain from bidding; and
- D. Bidder has not engaged in corrupt, fraudulent, collusive, or coercive practices in competing for the Contract. For the purposes of this Paragraph 4.01.D:
  - 1. "corrupt practice" means the offering, giving, receiving, or soliciting of anything of value likely to influence the action of a public official in the bidding process;
  - 2. "fraudulent practice" means an intentional misrepresentation of facts made (a) to influence the bidding process to the detriment of Owner, (b) to establish bid prices at artificial non-competitive levels, or (c) to deprive Owner of the benefits of free and open competition;
  - 3. "collusive practice" means a scheme or arrangement between two or more Bidders, with or without the knowledge of Owner, a purpose of which is to establish bid prices at artificial, non-competitive levels; and
  - 4. "coercive practice" means harming or threatening to harm, directly or indirectly, persons or their property to influence their participation in the bidding process or affect the execution of the Contract.

**ARTICLE 5 – BASIS OF BID**

5.01 Bidder will complete the Work in accordance with the Contract Documents for the following price(s):

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**BASE BID**  
**VDOT UPC#111366**

**REVISED JANUARY 29, 2021**

| Item No. | VDOT Spec. | Description                               | Unit | Estimated Quantity | Bid Unit Price | Bid Price |
|----------|------------|-------------------------------------------|------|--------------------|----------------|-----------|
| 1        | 513        | Mobilization                              | LS   | 1                  |                |           |
| 2        | 303        | Grading                                   | LS   | 1                  |                |           |
| 3        |            | Storm Sewer Pipes                         |      |                    |                |           |
| 3a       | 302        | Concrete Storm Sewer Pipe - 15-inch       | LF   | 165                |                |           |
| 3b       | 302        | Concrete Storm Sewer Pipe - 18-inch       | LF   | 58                 |                |           |
| 3c       | 302        | Concrete Storm Sewer Pipe - 24-inch       | LF   | 126                |                |           |
| 3d       | 302        | Concrete Storm Sewer Pipe - 30-inch       | LF   | 170                |                |           |
| 3e       | 302        | Storm Sewer Pipe - 48-inch                | LF   | 100                |                |           |
| 3f       | 302        | Storm Sewer Pipe - 10-inch HDPE           | LF   | 8                  |                |           |
| 4        |            | Drop Inlets and End Section               |      |                    |                |           |
| 4a       | 302        | Drop Inlet DI-1                           | EA   | 1                  |                |           |
| 4b       | 302        | Drop Inlet DI-2B, L= 8 feet               | EA   | 1                  |                |           |
| 4c       | 302        | Drop Inlet DI-2C, L= 6 feet               | EA   | 1                  |                |           |
| 4d       | 302        | Drop Inlet DI-2B, L= 6 feet               | EA   | 2                  |                |           |
| 4e       | 302        | Drop Inlet DI-3B, L= 8 feet               | EA   | 2                  |                |           |
| 4f       | 302        | Drop Inlet DI-3CC, L= 6 feet              | EA   | 1                  |                |           |
| 4g       | 302        | Modified DI-3B Top Unit, L=8 feet         | EA   | 1                  |                |           |
| 4h       | 302        | End Section 24"                           | EA   | 1                  |                |           |
| 4i       | 302        | Modify Existing Structure                 | EA   | 6                  |                |           |
| 5        | 302        | Storm Sewer Manhole MH-1 or MH-2          | VLF  | 32                 |                |           |
| 6        | 302        | Frame and Cover for Storm System Manholes | EA   | 12                 |                |           |
| 7        |            | Water Main and Fittings                   |      |                    |                |           |
| 7a       | WVWA       | 6-inch DI Water Main                      | LF   | 61                 |                |           |
| 7b       | WVWA       | 8-inch DI Water Main                      | LF   | 109                |                |           |
| 7c       | WVWA       | 12-inch DI Water Main                     | LF   | 987                |                |           |
| 8        |            | Gate Valve and Vault                      |      |                    |                |           |
| 8a       | WVWA       | 6-inch Diameter Gate Valve and Vault      | EA   | 2                  |                |           |
| 8b       | WVWA       | 8-inch Diameter Gate Valve and Vault      | EA   | 2                  |                |           |
| 8c       | WVWA       | 12-inch Diameter Gate Valve and Vault     | EA   | 4                  |                |           |
| 9        | WVWA       | Fire Hydrant Assembly                     | EA   | 2                  |                |           |
| 10       | WVWA       | 1-inch Water Service Line                 | LF   | 40                 |                |           |
| 11       | WVWA       | Connect to Existing Water Main            | EA   | 6                  |                |           |
| 12       | WVWA       | Sanitary Collection Sewer                 | LF   | 147                |                |           |
| 13       | WVWA       | Sanitary Sewer Manhole                    | VLF  | 34                 |                |           |

|     |      |                                          |     |      |  |  |
|-----|------|------------------------------------------|-----|------|--|--|
| 14  | WVWA | Frame and Cover for Sanitary Sewer       | EA  | 3    |  |  |
| 15  | WVWA | Connect to Existing 8" Sanitary Sewer    | EA  | 3    |  |  |
| 16  | 308  | Aggregate Base Material Type I, No. 21B  | TON | 650  |  |  |
| 17  |      | Asphalt Concrete Pavement                |     |      |  |  |
| 17a | 315  | Asphalt Concrete Ty. BM-25.0A            | TON | 758  |  |  |
| 17b | 315  | Asphalt Concrete Ty. SM-9.5D             | TON | 217  |  |  |
| 18  | 315  | Saw Cut Asphalt Concrete                 | LF  | 1600 |  |  |
| 19  |      | Curb & Gutter                            |     |      |  |  |
| 19a | 502  | Radial Curb CG-2                         | LF  | 45   |  |  |
| 19b | 502  | Std. Combination Curb & Gutter CG-6      | LF  | 75   |  |  |
| 19c | 502  | Radial Combination Curb & Gutter CG-6    | LF  | 58   |  |  |
| 19d | 502  | Std. Combination Curb & Gutter CG-7      | LF  | 640  |  |  |
| 19e | 502  | Radial Combination Curb & Gutter CG-7    | LF  | 450  |  |  |
| 19f | 504  | CG-12 Detectable Warning Surface         | SY  | 28   |  |  |
| 20  | 515  | Flexible Pavement Planing 0"-2"          | SY  | 175  |  |  |
| 21  | 504  | Hydraulic Cement Concrete Sidewalk 4"    | SY  | 430  |  |  |
| 22  | 502  | Saw Cut Hydraulic Cement Concrete Items  | LF  | 15   |  |  |
| 23  | 512  | Maintenance of Traffic                   | LS  | 1    |  |  |
| 24  |      | Erosion Control Seeding                  |     |      |  |  |
| 24a | 603  | Regular Seed                             | LB  | 125  |  |  |
| 24b | 603  | Overseeding                              | LB  | 60   |  |  |
| 24c | 603  | Hydraulic Erosion Control Product Type 2 | SY  | 2420 |  |  |
| 24d | 603  | Hydraulic Erosion Control Product Type 3 | SY  | 2420 |  |  |
| 25  |      | Soil Amendments                          |     |      |  |  |
| 25a | 603  | Fertilizer Nitrogen – N                  | LB  | 43   |  |  |
| 25b | 603  | Fertilizer Phosphorus – P                | LB  | 56   |  |  |
| 25c | 603  | Fertilizer Potassium – K                 | LB  | 28   |  |  |
| 25d | 603  | Lime                                     | TON | 2    |  |  |
| 26  |      | Erosion Control Devices                  |     |      |  |  |
| 26a | 303  | Check Dam Rock Type II                   | EA  | 2    |  |  |
| 26b | 303  | Siltation Control Excavation             | CY  | 150  |  |  |
| 26c | 303  | Temporary Silt Fence, Type A             | LF  | 460  |  |  |
| 26d | 303  | Inlet Protection, Type A                 | EA  | 2    |  |  |
| 26e | 303  | Inlet Protection, Type B                 | EA  | 8    |  |  |
| 27  |      | Landscaping                              |     |      |  |  |
| 27a | 605  | Autumn Brilliance Serviceberry (NS)      | EA  | 3    |  |  |

|     |     |                                                            |      |      |  |  |
|-----|-----|------------------------------------------------------------|------|------|--|--|
| 27b | 605 | American Hornbeam/Musclewood (NS)                          | EA   | 2    |  |  |
| 27c | 605 | Eastern Redbud (NS)                                        | EA   | 1    |  |  |
| 27d | 605 | Shamrock Inkberry                                          | EA   | 24   |  |  |
| 27e | 605 | Winter Red Winterberry (F)                                 | EA   | 25   |  |  |
| 27f | 605 | Jim Dandy Winterberry (M)                                  | EA   | 4    |  |  |
| 27g | 605 | Otto Luyken Laurel                                         | EA   | 51   |  |  |
| 27h | 602 | Topsoil Class A                                            | CY   | 125  |  |  |
| 27i | 605 | Watering                                                   | UNIT | 10   |  |  |
| 27j | 605 | Bed Preparation                                            | UNIT | 8    |  |  |
| 27k | 605 | Mulching (Beds Only)                                       | UNIT | 8    |  |  |
| 27l | 605 | Remulching                                                 | CY   | 8    |  |  |
| 28  |     | VDOT Standard Traffic and Safety Items                     |      |      |  |  |
| 28a | 701 | Sign Panel                                                 | SF   | 74   |  |  |
| 28b | 700 | Sign Post STP-1, 2-1/2", 12 Gauge                          | LF   | 42   |  |  |
| 28c | 700 | Sign Post STP-1, 2-1/2", 10 Gauge                          | LF   | 15   |  |  |
| 28d | 700 | Sign Post STP-1, 2", 14 Gauge                              | LF   | 78   |  |  |
| 28e | 700 | Concrete Sign Foundation STP-1, Type A                     | EA   | 10   |  |  |
| 28f | 700 | Concrete Sign Foundation STP-1, Type B                     | EA   | 1    |  |  |
| 29  |     | Disposition of Existing Signage                            |      |      |  |  |
| 29a | 700 | Remove Existing 1 Post Sign Structure                      | EA   | 11   |  |  |
| 29b | 700 | Relocate Existing 1 Post Ground Mounted Sign Panel         | EA   | 6    |  |  |
| 30  |     | Lane Marking and Traffic Control                           |      |      |  |  |
| 30a | 704 | Type B Class I Pavement Line Marking 4"                    | LF   | 3400 |  |  |
| 30b | 704 | Type B Class I Pavement Line Marking 6"                    | LF   | 235  |  |  |
| 30c | 704 | Type B Class II Pavement Line Marking 24"                  | LF   | 435  |  |  |
| 30d | 512 | Eradicate Existing Linear Pavement Marking                 | LF   | 6950 |  |  |
| 30e | 512 | Eradicate Existing Non-Linear Pavement Marking             | SF   | 110  |  |  |
| 30f | 704 | Pavement Symbol Marking Single Turn Arrow Type B, Class II | EA   | 12   |  |  |
| 31  | 517 | Construction Surveying Construction                        | LS   | 1    |  |  |
| 32  |     | Pedestrian Signal and Lighting                             |      |      |  |  |
| 32a | 703 | Traffic Signal Head Section 12" LED, HVS Backplate         | EA   | 10   |  |  |
| 32b | 703 | Pedestrian Actuation PA-4 (Audible/Accessible)             | EA   | 4    |  |  |
| 32c | 700 | Pedestal Pole PF-2 10'                                     | EA   | 4    |  |  |
| 32d | 700 | Concrete Foundation PF-2                                   | EA   | 4    |  |  |

|     |     |                                  |    |      |  |  |
|-----|-----|----------------------------------|----|------|--|--|
| 32e | 700 | 14/4 Conductor Cable             | LF | 1065 |  |  |
| 32f | 703 | Hanger Assembly SM-3, One Way    | EA | 3    |  |  |
| 32g | 703 | Hanger Assembly SMB-2, One Way   | EA | 4    |  |  |
| 32h | 703 | Pedestrian Signal Head SP-8      | EA | 4    |  |  |
| 32i | 700 | 8 Conductor Cable                | LF | 120  |  |  |
| 32j | 700 | 2" PVC Conduit                   | LF | 105  |  |  |
| 32k | 700 | Trench Excavation ECI-1          | LF | 105  |  |  |
| 32l | 703 | Remove Existing Signal Head      | EA | 3    |  |  |
| 32m | 510 | Modify Traffic Signal Controller | EA | 1    |  |  |

Bidder acknowledges that (1) each Bid Unit Price includes an amount considered by Bidder to be adequate to cover Contractor's overhead and profit for each separately identified item, and (2) estimated quantities are not guaranteed, and are solely for the purpose of comparison of Bids, and final payment for all unit price Bid items will be based on actual quantities, determined as provided in the Contract Documents.

**Total Base Bid Price**

\$ \_\_\_\_\_

#### ARTICLE 6 – TIME OF COMPLETION

- 6.01 Bidder agrees that the Work will be substantially complete and will be completed and ready for final payment in accordance with Paragraph 15.06 of the General Conditions on or before the dates or within the number of calendar days indicated in the Agreement.
- 6.02 Bidder accepts the provisions of the Agreement as to liquidated damages.

#### ARTICLE 7 – ATTACHMENTS TO THIS BID

- 7.01 The following documents are submitted with and made a condition of this Bid:
- A. Required Bid security;
  - B. List of Proposed Subcontractors;
  - C. List of Proposed Suppliers;
  - D. List of Project References;
  - E. Evidence of authority to do business in the state of the Project; or a written covenant to obtain such license within the time for acceptance of Bids;
  - F. Contractor's License No.: \_\_\_\_\_;
  - G. Required Bidder Qualification Statement with supporting data; and
  - H. Required Federal Bid Forms

**ARTICLE 8 – DEFINED TERMS**

8.01 The terms used in this Bid with initial capital letters have the meanings stated in the Instructions to Bidders, the General Conditions, and the Supplementary Conditions.

**ARTICLE 9 – BID SUBMITTAL**

BIDDER: *[Indicate correct name of bidding entity]*

By:

*[Signature]* \_\_\_\_\_

*[Printed name]* \_\_\_\_\_

*(If Bidder is a corporation, a limited liability company, a partnership, or a joint venture, attach evidence of authority to sign.)*

Attest:

*[Signature]* \_\_\_\_\_

*[Printed name]* \_\_\_\_\_

Title: \_\_\_\_\_

Submittal Date: \_\_\_\_\_

Address for giving notices:

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Telephone Number: \_\_\_\_\_

Fax Number: \_\_\_\_\_

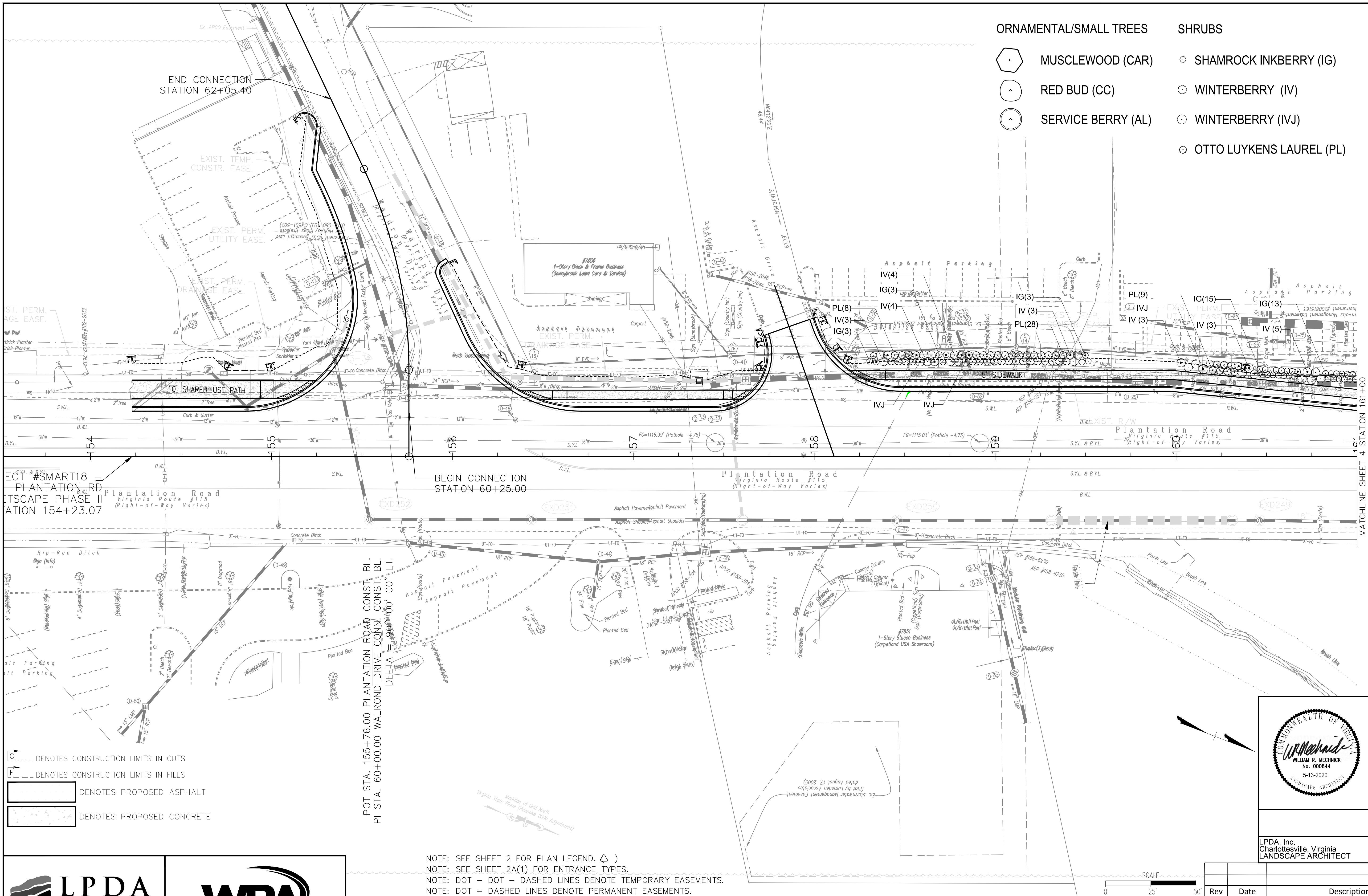
Contact Name and e-mail address: \_\_\_\_\_

Bidder's License No.: \_\_\_\_\_

*(where applicable)*

Virginia SCC # \* \_\_\_\_\_

\*(or provide explanation why firm is not required to be authorized in accord with VA CODE 2.2-4311.2)



--- DENOTES CONSTRUCTION LIMITS IN CUTS  
--- DENOTES CONSTRUCTION LIMITS IN FILLS  
--- DENOTES PROPOSED ASPHALT  
--- DENOTES PROPOSED CONCRETE

NOTE: SEE SHEET 2 FOR PLAN LEGEND. (Δ) )  
NOTE: SEE SHEET 2A(1) FOR ENTRANCE TYPES.  
NOTE: DOT - DOT - DASHED LINES DENOTE TEMPORARY EASEMENTS.  
NOTE: DOT - DASHED LINES DENOTE PERMANENT EASEMENTS.

**LPDA**  
LANDSCAPE ARCHITECTURE  
LAND PLANNING  
1006 E. Jefferson St. Suite B  
Charlottesville, Virginia ■ www.lpda.net  
434-296-2108 ■ Fax 434-296-2109

**WRA**  
**Whitman, Requardt & Associates, LLP**  
1700 Kraft Drive, Suite 1200, Blacksburg, Virginia 24060

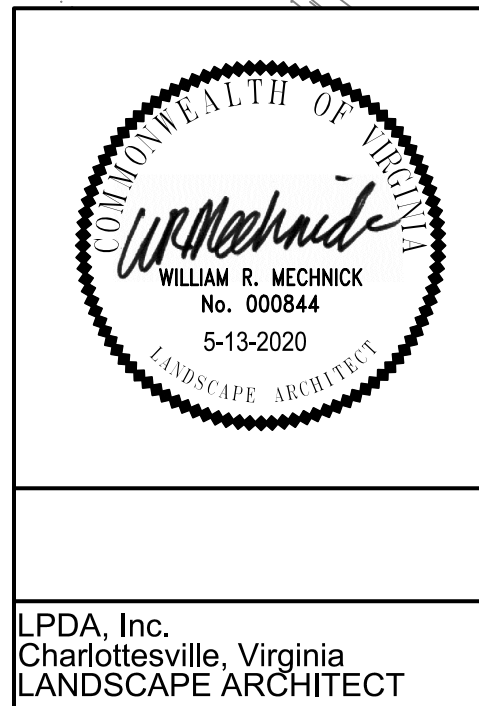
**COUNTY OF ROANOKE**  
5204 BERNARD DRIVE  
ROANOKE, VA 24018

VDOT PROJECT NUMBER:  
#SMART18 - PLANTATION RD  
BIKE/PED/STREETSCAPE PHASE II  
VDOT UPC NUMBER: 111366

**PLANTATION ROAD, BICYCLE, PEDESTRIAN, AND  
STREETSCAPE IMPROVEMENTS PHASE 2 PROJECT**

Drawing  
**PLAN SHEET**

Sheet  
**9(3)**



LPDA, Inc.  
Charlottesville, Virginia  
LANDSCAPE ARCHITECT



- ORNAMENTAL/SMALL TREES
- MUSCLEWOOD (CAR)
  - RED BUD (CC)
  - SERVICE BERRY (AL)
- SHRUBS
- SHAMROCK INKBERRY (IG)
  - WINTERBERRY (IV)
  - WINTERBERRY (IVJ)
  - OTTO LUYKENS LAUREL (PL)

- DENOTES CONSTRUCTION LIMITS IN CUTS
- DENOTES CONSTRUCTION LIMITS IN FILLS
- DENOTES PROPOSED ASPHALT
- DENOTES PROPOSED CONCRETE

NOTE: SEE SHEET 2 FOR PLAN LEGEND. ( )  
NOTE: SEE SHEET 2A(1) FOR ENTRANCE TYPES.  
NOTE: DOT - DOT - DASHED LINES DENOTE TEMPORARY EASEMENTS.  
NOTE: DOT - DASHED LINES DENOTE PERMANENT EASEMENTS.

**LPDA**  
LANDSCAPE ARCHITECTURE  
LAND PLANNING  
1006 E. Jefferson St, Suite B  
Charlottesville, Virginia ■ www.lpda.net  
434-296-2108 ■ Fax 434-296-2109

**WRA**  
**Whitman, Requardt & Associates, LLP**  
1700 Kraft Drive, Suite 1200, Blacksburg, Virginia 24060

**COUNTY OF ROANOKE**  
5204 BERNARD DRIVE  
ROANOKE, VA 24018

VDOT PROJECT NUMBER:  
#SMART18 - PLANTATION RD  
BIKE/PED/STREETSCAPE PHASE II  
VDOT UPC NUMBER: 111366

**PLANTATION ROAD, BICYCLE, PEDESTRIAN, AND  
STREETSCAPE IMPROVEMENTS PHASE 2 PROJECT**

| Drawing    |      | Sheet       |  |
|------------|------|-------------|--|
| PLAN SHEET |      | 9(4)        |  |
| Rev        | Date | Description |  |
|            |      |             |  |

COMMONWEALTH OF VIRGINIA  
**William R. Mechnick**  
WILLIAM R. MECHNICK  
No. 000844  
5-13-2020  
LANDSCAPE ARCHITECT

LPDA, Inc.  
Charlottesville, Virginia  
LANDSCAPE ARCHITECT

## General Notes

- All planting shall be in accordance with VDOT 2016 Road and Bridge Specifications and VDOT Road and Bridge Standards Revised October 2019.
- All planting and site work shall be within the right of way, unless identified.
- The planting season for this project shall generally be from: October 1 through: April 30
- Size of plants indicated on this summary sheet refer to size of plants delivered to the project site, not after they have been pruned.
- Plants shall be set in the planting pit at the proper depth on tamped soil mix. Soil mix shall then be filled around the roots to approximately 75% of the depth of the pit, tamped, and thoroughly watered. After settlement of the soil, the remainder of the pit shall be filled with soil mix, fertilized, tamped, and again watered, all within the same day of planting. The same procedure shall be followed in planting replacements.
- During the establishment period the contractor shall water each plant with the following minimum quantities of water for each watering, unless otherwise directed by the Engineer.
 

|                                     |       |                 |
|-------------------------------------|-------|-----------------|
| (A) Deciduous Trees over 10' Ht.    | — 20  | gallons per pit |
| (B) Deciduous Trees 10' Ht. or less | — 15  | gallons per pit |
| (C) Evergreen Trees                 | — 15  | gallons per pit |
| (D) Shrubs over 18" Ht.             | — 2.5 | gallons per pit |
| (E) Shrubs under 18"                | — 2   | gallon per pit  |
| (F) Perennials and Grasses          | — 1   | gallon per pit  |
- The Contractor shall water all living plants every week during the period between April 1 and September 30; and every 2 weeks during the period between October 1 and November 30. For Contractor's bidding purposes, this assumes a total of 28 times per year.
- Should the ball size exceed the minimum size given, the pit size need not be increased provided that there is sufficient space between the ball and the side of the pit to backfill and tamp properly.
- The Engineer or their designee shall be given the opportunity to inspect and approve all plant material at its source prior to digging or delivery. If this opportunity is waived, a representative sample of each species may be required for approval prior to shipment of the total quantity.
- Utility data has not been collected for this project. Prior to any construction, excavation, or landscaping, the contractor shall assume the responsibility of locating and verifying all utilities, above and/or below ground, public and/or private that may exist and cross through the areas of construction.
- The Contractor shall coordinate, through the Engineer, the location and delineation of County assets that may exist in the project area.
- Major trees shall not be planted under overhead utilities unless noted.
- Location of plant materials shown on the plans are schematic only and shall be adjusted as required for changes due to actual field conditions when directed by the Engineer.
- On center spacing of plant material shall be indicated in the Landscape Summary or plan, unless otherwise directed by the Engineer.
- The location of all plant material shall be staked in the field by the contractor for approval by the Engineer prior to excavation of planting pits and/or beds and installation of any plant material.
- The mulching material for this project shall be:
 

----- SHREDDED HARDWOOD BARK -----
- Definition of abbreviation:
 

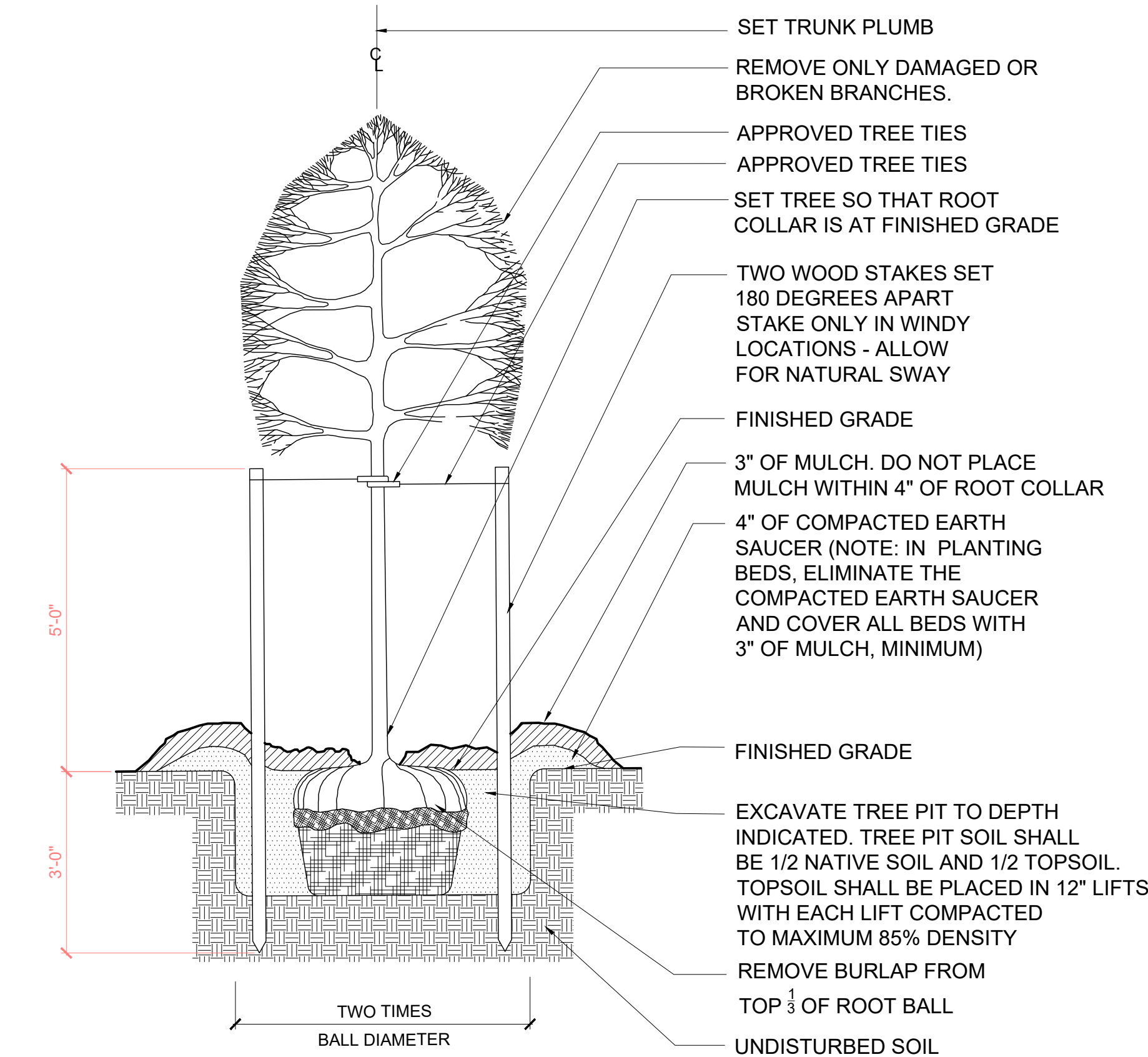
|       |                      |      |               |
|-------|----------------------|------|---------------|
| CAL.  | — Caliper            | EA.  | — Each        |
| HGT.  | — Height             | L.F. | — Linear Feet |
| B & B | — Balled & Burlapped | C.Y. | — Cubic Yard  |
| CONT. | — Container          | S.F. | — Square Feet |
| B.R.  | — Bareroot           | HR   | — Hour        |
- Planting pits for container material shall be twice the width of the container or root ball and equal to the depth of the container or root ball.
- See civil sections, plans, and profiles for utilities, sidewalk, and roadway information.



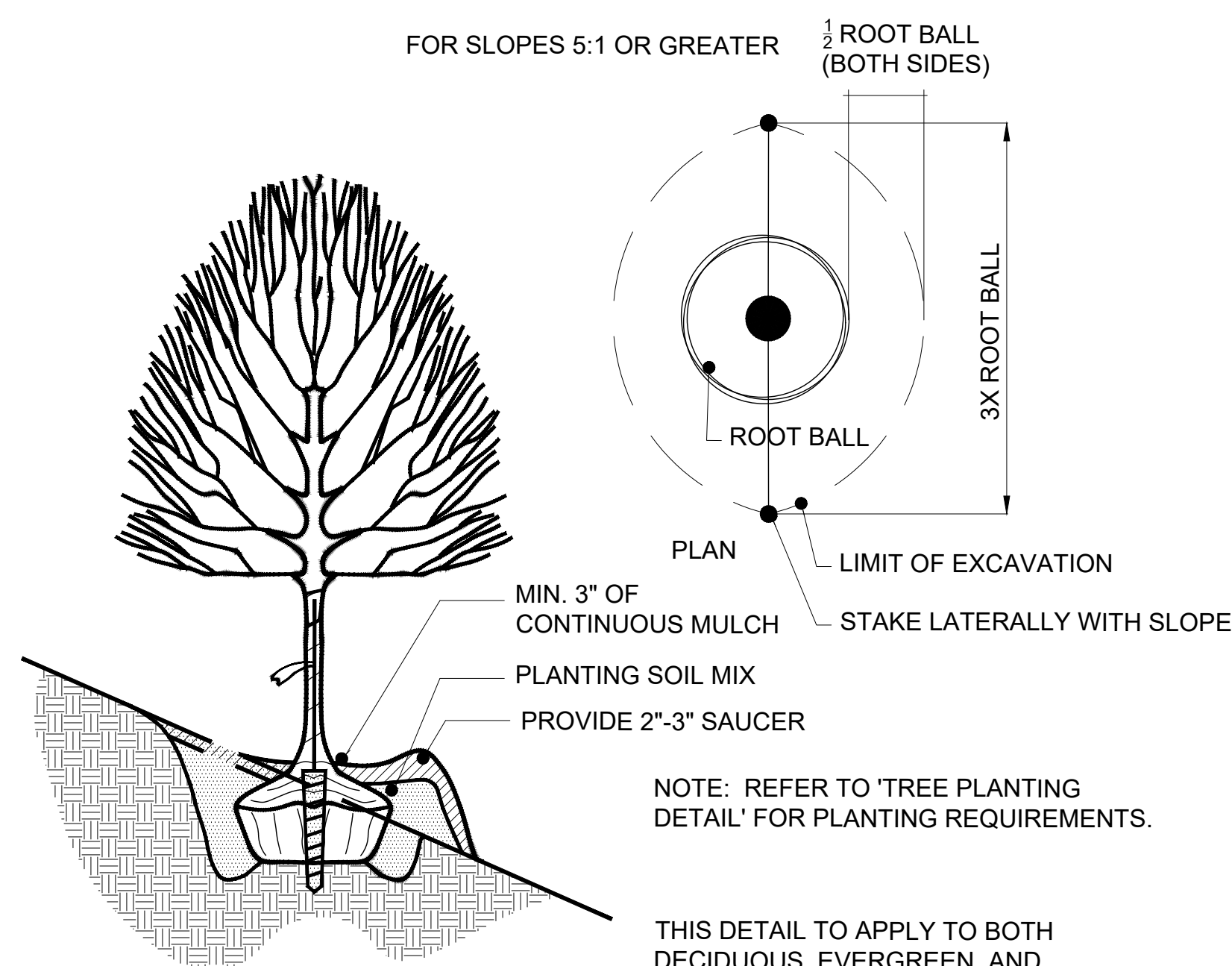
LPDA, Inc.  
Charlottesville, Virginia  
LANDSCAPE ARCHITECT

| Rev | Date | Description |
|-----|------|-------------|
|     |      |             |

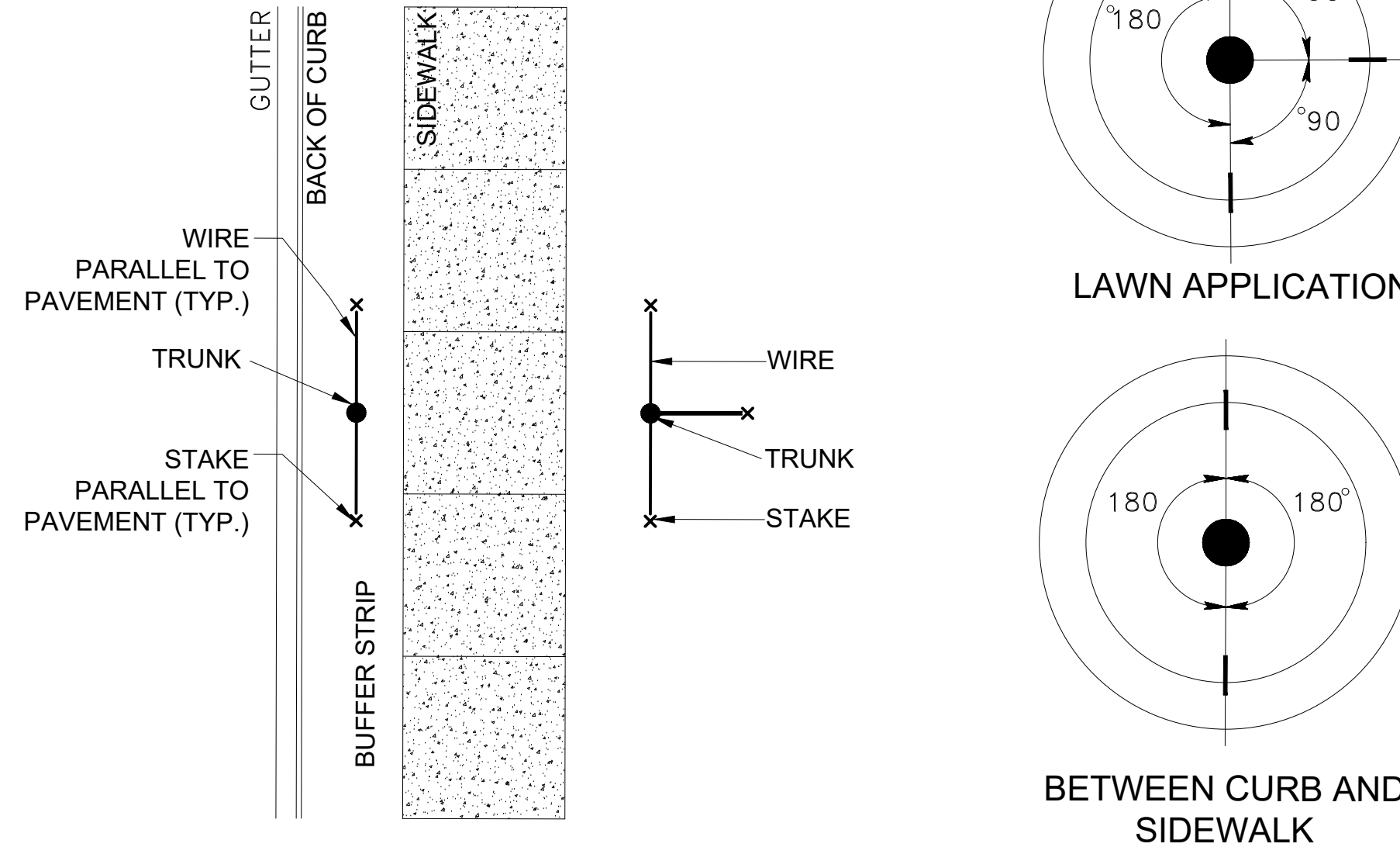
Drawing  
**PLANTING DETAILS**  
Sheet  
**9(5)**



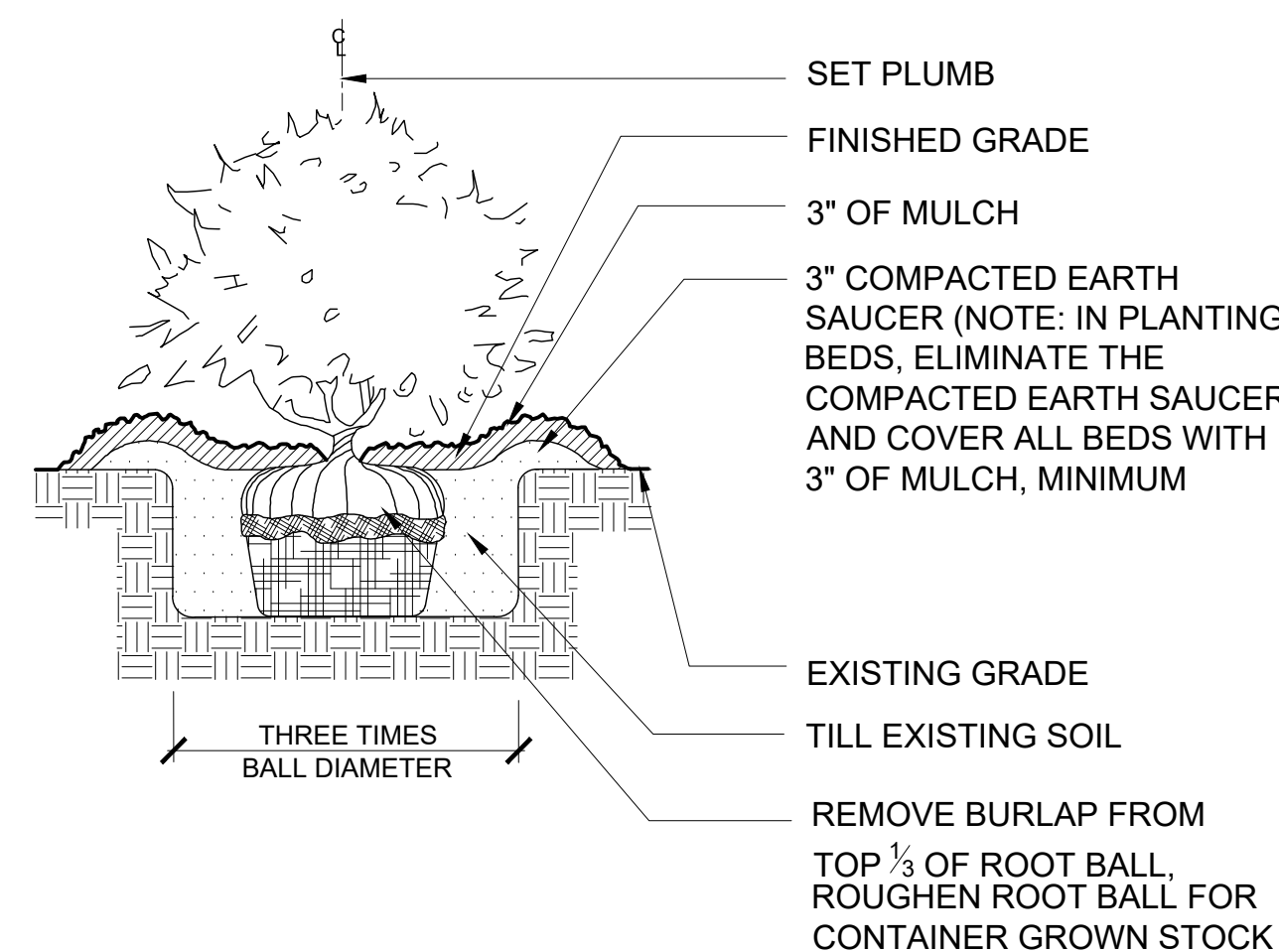
**1 TREE PLANTING - OVERSIZED PIT**  
3/4" = 1'



**2 TREE PLANTING ON SLOPE - OVERSIZED PIT**  
3/4" = 1'



**3 TREE STAKING IN BUFFER STRIP**  
3/4" = 1'



**4 SHRUB PLANTING**  
3/4" = 1'

| VDOT ITEM #            | WATERING KEY | PLAN KEY | SCIENTIFIC NAME                               | COMMON NAME (PAY ITEMS)             | QTY. | UNIT | SIZE              | SPACING           | A.A.N. TYPE | CONDITION/ | MINIMUM ROOT BALL WIDTH | MINIMUM ROOT BALL DEPTH | COMMENTS                |
|------------------------|--------------|----------|-----------------------------------------------|-------------------------------------|------|------|-------------------|-------------------|-------------|------------|-------------------------|-------------------------|-------------------------|
| <b>Street Trees</b>    |              |          |                                               |                                     |      |      |                   |                   |             |            |                         |                         |                         |
| 39001                  | B            | AL       | Amelanchier x grandiflora 'Autumn Brilliance' | Autumn Brilliance Serviceberry (NS) | 3    | EA   | 5'-6'             | AS SHOWN ON PLANS | 2.5.4       | B&B        | 18"                     | 10.4"                   | Multi-stem (3 Stem min) |
| 39001                  | B            | CAR      | Carpinus caroliniana                          | American Hornbeam/ Musclemwood (NS) | 2    | EA   | 1.5"-2" cal.      | AS SHOWN ON PLANS | 2.1.2 Typ1  | B&B        | 16"                     | 10.4"                   | Single Leader           |
| 39001                  | B            | CC       | Cercis canadensis                             | Eastern Redbud (NS)                 | 1    | EA   | 1.5"-2" cal.      | AS SHOWN ON PLANS | 2.1.2 Typ1  | B&B        | 16"                     | 10.4"                   | Single Leader           |
| <b>Shrubs</b>          |              |          |                                               |                                     |      |      |                   |                   |             |            |                         |                         |                         |
| 39002                  | D            | IG       | Ilex glabra 'Shamrock'                        | Shamrock Inkberry                   | 24   | EA   | 2'-3'             | AS SHOWN ON PLANS | 3.3.2 Typ 2 | #3 CONT.   |                         |                         |                         |
| 39002                  | D            | IV       | Ilex verticillata 'Winter Red'                | Winter Red Winterberry (F)          | 25   | EA   | 2'-3'             | AS SHOWN ON PLANS | 3.3.2 Typ 3 | #3 CONT.   |                         |                         |                         |
| 39002                  | D            | IVJ      | Ilex verticillata 'Jim Dandy'                 | Jim Dandy Winterberry (M)           | 4    | EA   | 2'-3'             | AS SHOWN ON PLANS | 3.3.2 Typ 3 | #3 CONT.   |                         |                         |                         |
| 39002                  | D            | PL       | Prunus laurocerasus 'Otto Luyken'             | Otto Luyken Laurel                  | 51   | EA   | 2'-2.5'           | AS SHOWN ON PLANS | 3.3.2 Typ 2 | #3 CONT.   |                         |                         |                         |
| <b>Topsoil Class A</b> |              |          |                                               |                                     |      |      |                   |                   |             |            |                         |                         |                         |
| 27013                  |              |          |                                               |                                     |      | CY   | see Civil         |                   |             |            |                         |                         |                         |
| 38905                  |              |          |                                               |                                     | 10   | Unit | (Unit= 1000 gals) |                   |             |            |                         |                         |                         |
| 28005                  |              |          |                                               |                                     | 8    | Unit | (Unit= 100 SF)    |                   |             |            |                         |                         |                         |
| 28810                  |              |          |                                               |                                     | 8    | Unit | (Unit= 100 SF)    |                   |             |            |                         |                         |                         |
| 28811                  |              |          |                                               |                                     | 8    | CY   |                   |                   |             |            |                         |                         |                         |

PLANT LIST

**LPDA**  
LANDSCAPE ARCHITECTURE  
LAND PLANNING  
1006 E. Jefferson St, Suite B  
Charlottesville, Virginia ■ www.lpda.net  
434-296-2108 ■ Fax 434-296-2109

**WRA**  
**Whitman, Requardt & Associates, LLP**  
1700 Kraft Drive, Suite 1200, Blacksburg, Virginia 24060

**COUNTY OF ROANOKE**  
5204 BERNARD DRIVE  
ROANOKE, VA 24018

VDOT PROJECT NUMBER:  
#SMART18 - PLANTATION RD  
BIKE/PED/STREETSCAPE PHASE II  
VDOT UPC NUMBER: 111366

**PLANTATION ROAD, BICYCLE, PEDESTRIAN, AND  
STREETSCAPE IMPROVEMENTS PHASE 2 PROJECT**

## Appendix 17 D – Good Faith Efforts (GFE) Administrative Review Process

### Virginia Department of Transportation Good Faith Efforts (GFE) Guidelines

Good Faith efforts may be determined through use of the following list of the types of actions the Consultant/Contractor may make to obtain DBE participation. This is not intended to be a mandatory checklist, nor is it intended to be exclusive or exhaustive. Other factors or types of efforts of similar intent may be relevant in appropriate cases:

- ☐ Include the following completed forms:
  - ☐ Form C-111 - Minimum DBE Requirements
  - ☐ Form C-112 - Certification of Binding Agreement
  - ☐ Form C-48 - Contractor/Supplier Solicitation and Utilization Form
  - ☐ Form C-49 - Summary of GFE Documentation
  - ☐ Copy of the Request for Bid Solicitation to DBEs
- ☐ Solicit through reasonable and available means, such as but not limited to, attendance at pre-bid meetings, advertising, and written notices to certified DBEs who have the capability to perform the work of the contract. Examples include: advertising in at least one daily/weekly/monthly newspapers of general circulation as applicable; phone contact with a completely documented telephone log, including the date and time called, contact person, or voice mail status; and internet contacts with supporting documentation, including dates advertised.
- ☐ Solicit DBEs no less than five (5) business days before the bids are due so that the solicited DBEs have enough time to reasonably respond to the solicitation.
- ☐ Follow up initial solicitations as evidenced by documenting such efforts on Department standard DBE good faith documentation form, C-49.
- ☐ Select portions of the work to be performed by certified DBEs in order to increase the likelihood that the DBE goals will be achieved. This includes, where appropriate, breaking out contract work items into economically feasible units to facilitate DBE participation, even when the Contractor might otherwise prefer to perform these work items completely or with its own forces.
- ☐ Provide interested certified DBES with adequate information about the plans, specifications, and requirements of the contract in a timely manner, which will assist the DBEs in responding to a solicitation.
- ☐ Provide evidence of names, addresses, and telephone numbers of DBEs that were considered for the solicitation; dates DBEs were contacted, a description of the information provided regarding the plans, specifications, and requirements of the contract for the work selected for subcontracting, and, if insufficient DBE participation seems likely, evidence as to why additional agreements could not be reached for DBEs to perform the work.

- ☐ For DBE bids declared noncompetitive, include copies of DBE and non-DBE bid quotes. DBE quotes may be rejected as noncompetitive if the DBE sub's quote is more than 10% higher than the non-DBE's quote, as verified by supporting documentation. The prime must contract with the non-DBE sub when declaring a DBE firm non-competitive.
- ☐ Offer assistance to DBEs in obtaining bonding, lines of credit, or insurance.
- ☐ Offer assistance to DBEs with information about securing equipment, supplies, materials, or related assistance/services.
- ☐ Effectively utilize the services of appropriate personnel from VDOT, the Virginia Department of Small Business and Supplier Diversity, the Metropolitan Washington Airports Authority, and other organizations in the recruitment and utilization of qualified DBEs.

- Form C-111 is due by 10:00 AM the next business day after the receipt of bids
- Form C-111 – DBE credit for supplier is 60% unless the supplier is also the manufacturer
- Form C-112 is due within three business days after the bids are received
- Form C-112 revision includes multi-tier DBE subcontractors for participation credit
- DBE firms must be certified in the specific work listed for DBE contract goal credit
- Form C-48 is due within ten days after the bid opening
- Form C-49 must be used to show DBE Good Faith Efforts

## Search for DBE firms:

- Visit Virginia Department of Small Business Supplier Diversity
- Website: [www.sbsd.virginia.gov](http://www.sbsd.virginia.gov)

**Agencies | Governor**

**Search Virginia.Gov**

9 101 N. 14th Street, 11th Floor Richmond, VA 23219



1 (804) 786-6585

☉ Mon-Fri: 9am - 5pm

- About Us
- Certification Division
- Business Development and Outreach
- Virginia Small Business Financing Authority

Events

Welcome to the website of the Virginia Department of Small Business and Supplier Diversity (SBSD)

**Get Certified**

- Under What's Hot! Click on SWaM and DBE Directory

Be sure to scroll down for more information!



Learn more  
about certification  
details and  
guidance here!  
  
Certifications

Learn  
about Workshops  
ops &  
Training to  
help your  
business grow.  
  
Workshops & Training

Learn about  
our finance  
and capital  
programs here.  
  
Finance & Capital

Click here if  
you are a  
buyer looking  
for our  
suppliers  
listings.  
  
I am a buyer!



#### What's Hot!

- Expenditure Dashboard
- Certification Application
- Certification Application Status

- Scaling4Growth
- SWaM and DBE Directory
- Events

- FAQs
- Business One-Stop
- Important Forms

- Under Directory Listing you can begin your Search
- Be Mindful of SWaM certification Type versus DBE Certification Type
- Be Mindful of Types of Work certified to perform

Sample of SWaM Search

(<http://www.virginia.gov>)



Directory Listing

Certification Type

NIGP

NAICS

City

ZIP Code

All

contains

Glade Construction

Q

Match found 1

Sort by: SWaM cert

Show entries: 5

Applied Filters

Reset filters

GLADE  
CONSTRUCTION  
CO INC

Kim Vincill  
19294 Lee Highway  
Abingdon, VA 24210  
Phone: (276) 676-4265  
Fax: (276) 676-4297  
gladeconst@bvu.net  
(mailto:gladeconst@bvu.net)

Certification Number: 10054  
SWaM Certification Type:  
Small Start Date: 02-14-2017  
SWaM Expiration Date: 02-14-2020  
Poard: N

\*SWaM

(<http://www.virginia.gov>)



## Directory Listing

Certification Type

NIGP

NAICS

City

ZIP Code

All

contains

L A S



Match found 1

Sort by: Company name

Show entries: 5

Applied Filters

Reset filters

### L A S Trucking and Construction, Inc.

Lisa Akers Altis  
1148 Mt. Pleasant Road  
Shawsville, VA 24162  
Phone: (540) 382-2821  
Fax: (540) 382-8883  
lisaaltis@yahoo.com  
(mailto:lisaaltis@yahoo.com)

Certification Number: 664220

SWaM Certification Type:

Small Start Date: 09-19-2014

Women-Owned Start Date: 09-19-2014

SWaM Expiration Date: 10-27-2022

NIGP/Description:

96239 Hauling Services

DBE Certification Type:

DBE Start Date: 10-27-2011

DBE Fed Type: DBE/MBE

DBE/ACDBE Certifying Agency: SBSB

\* DBE

| LAStruckingand<br>constructionInc.com<br>(http://LAStruckingand<br>constructionInc.com) |        | NAICS Code/Description:                                                                                                       |  |
|-----------------------------------------------------------------------------------------|--------|-------------------------------------------------------------------------------------------------------------------------------|--|
|                                                                                         | 811310 | Commercial and<br>Industrial Machinery<br>and Equipment<br>(except Automotive<br>and Electronic)<br>Repair and<br>Maintenance |  |
|                                                                                         | 561990 | Flagging (i.e., traffic<br>control) services                                                                                  |  |
|                                                                                         | 237310 | Highway, Street, and<br>Bridge Construction                                                                                   |  |
|                                                                                         | 561730 | Hydroseeding<br>services (e.g.,<br>decorative, erosion<br>control purposes)                                                   |  |
|                                                                                         | 488490 | Snow removal,<br>highway                                                                                                      |  |
|                                                                                         | 484220 | Trucking, specialized<br>freight (except used<br>goods), local                                                                |  |
|                                                                                         | 811310 | Welding repair<br>services (e.g.,<br>automotive, general)                                                                     |  |
|                                                                                         | 238190 | Welding, on site,<br>contractors                                                                                              |  |
| Pcard: N                                                                                |        |                                                                                                                               |  |