

## Request for Proposal

Design-Build Road Construction (C-Fund Paving Program)

Request for Proposal ("RFP"): FY17-0321  
RFP Title: No. FY17-0321 Design-Build Road Construction  
RFP Publication:

As follows:

- [02/07/2017http://www.orangeburgcounty.org/](http://www.orangeburgcounty.org/)
- 02/07/2017 Basement bulletin board, Admin. Centre

RFP Composition: RFP No. FY17-0321 is composed of the following:

- Title and Summary pages
- Code Articles 1 through 5 and 7
- Scope of Work
- Unit Cost Work Sheet
- Vendor Qualifications and Information
- Evaluation Criteria
- Certification of No Exceptions
- Acknowledgement of RFP Amendments Form

RFP Amendments: If any, will be published/posted on the following:

- <http://www.orangeburgcounty.org/>
- Bulletin boards located in/on

Basement Floor Administrative Centre, Procurement

Contracting Entity: Orangeburg County Public Works  
1584 Ellis Avenue  
Orangeburg SC 29115  
[hsummers@orangeburgcounty.org](mailto:hsummers@orangeburgcounty.org)

Procurement Coordinator: Procurement Director Jannella Shuler  
Orangeburg County Procurement Office  
1437 Amelia St. ("Administrative Center")  
Orangeburg SC 29115  
(803) 533-6121 Office phone number  
(803) 535-2307 Office fax number  
[jshuler@orangeburgcounty.org](mailto:jshuler@orangeburgcounty.org)

Pre-Submission of Proposals Requirements:

**Proposers must attend pre-bid conference**

Date/Time: February 15, 2017 11:00 a.m. (Doors closed) Location:  
Representatives must be in attendance by **10:55** a.m.  
1<sup>st</sup> floor County Council Chambers  
1437 Amelia Street,  
Orangeburg, S. C. 29118

Questions: If Proposers have questions, same shall be directed to

Procurement Director

Mode of Communication via e-mail only

No later than March 1, 2017 by, 11:00 a.m.

Proposals:

Submission Composition:

Each submitted proposal is required to be composed of the following, including fully completed and executed forms:

- Code and Articles Form
- Certified Proposal Engineering/Construction (Documents)
- Unit Price Worksheet for each road and Complete Project
- Certification of No Exceptions
- Vendor Qualifications Responses
- Certification of Preference(s)
- Acknowledgment of RFP Amendments Form
- Bid Security – See page 4

Submission Deadline: March 21, 2017 @ 11:00 A.M.

Submission Location: Administrative Centre, Basement Floor Procurement Office

Opening Time: February 20, 2015 @ 11:00 A.M. **Only names of proposers read aloud.**

Opening Location: Administrative Centre, Basement Floor, Procurement Office

Special Conditions Intent/Award/Contract:

The intent to award the contract regarding FY17-0321 is subject to the following special conditions as so stated in Article 6: 6-102

Code and Articles

RFP No.FY17-0321 Design - Build Road Construction (C-Funds Roads)

Incorporation by Reference.

Articles 1 through 5 and 7 of the Code are incorporated by reference as if set forth verbatim in this RFP. As stated in the Code, by submitting a proposal, the vendor agrees that the Code governs this procurement from solicitation through completion of the resulting contract, including disputes, if any.

ACCESS TO CODE. On November 16, 2009, Orangeburg County Council, the governing body of Orangeburg County, repealed all aspects of its procurement policy and enacted the **Orangeburg County Procurement Code** (the "Code"). The Code may be accessed online without charge at <http://www.orangeburgcounty.org/Purchasing/code.html> In addition; a copy of the Code is available for review without charge at the Office of the Procurement Director. If neither of those options meets your needs, a hard-copy of the Code is also available for purchase at the Office of the Procurement Director.

<http://www.orangeburgcounty.org/> \_\_\_\_\_ or

Method of Source Selection.

The source selection method applicable to this procurement is Competitive Sealed Proposals, §5-304 of the Code. The undersigned vendor understands and agrees to be bound to the Code in all matters arising from the RFP identified above.

Printed Vendor Name \_\_\_\_\_

Signature of Vendor Authorized Agent \_\_\_\_\_ Date: \_\_\_\_\_

Printed Name of Vendor's Authorized Agent \_\_\_\_\_

Titled with Vendor of Vendor's Authorized Agent \_\_\_\_\_

RFP No.FY17-0321 Design - Build Road Construction (C-Fund Roads)

**Bid Security**

Each bid must be accompanied by a Bid Bond acceptable to the County. Bid Bonds must be issued by a corporate surety registered and authorized to do business in the State of South Carolina. Bid Bonds shall be payable to the County, shall be at least five (5) percent of the total amount of the bid and shall serve as guarantee deposit that the bid will be carried out to the complete satisfaction of the County.

**Payment and Performance Security** – Required only for the Awarded bidder

The successful bidder shall provide Performance and Payment Bonds, in a form satisfactory to the County in the following amounts no later than at the time of execution of the contract.

Payment Bond: 100% of the total amount of the Contract

Performance Bond: 100 % of the total amount of the Contract

Please see the County's Procurement Code Article 6 Construction and Related Services Part B –Retainage and Other Security 6-201 thru 6-204 for further details.

## INTRODUCTION & SCOPE OF WORK

### I. INTRODUCTION

It is the intent of Orangeburg County to solicit competitive sealed proposals from qualified proposers with the ability and capacity to design, construct, manage, and provide all construction administration for the Orangeburg County 2017 Fund Paving Program. The dirt roads are located in Orangeburg County various locations.

The scope of work for this project will consist of the total roadway design, obtaining required necessary permits from all federal, state and local government agencies, staking any necessary lines and grades, traffic control which includes permanent construction signing and daily work area signing, clearing & grubbing roadway r/w, site excavation, storm drainage, necessary erosion control, moving items (i.e., shrubs, fence etc.), base course (thru final grading), final cleanup and permanent seeding.

Orangeburg County will acquire rights-of-way, assist with utility relocations, place asphalt pavement upon fine graded base and place final roadway signing, raised pavement markings and stop bars.

The following roads are included in this Project:

Road name and Number	<u>R/W Width</u>	Approximate <u>Length (miles)</u> .
Millwood Farm Road (OC-1342)		0.5
Archie Road (OC-3117)		0.2
Creek Mill Road (OC-1419)		1.47
Lanier Road (OC-3178)		0.95
Ackerly Road (OC-3178)	50'	1.0
Bethel Forest Road (OC-4490)	66'	0.8
Saddle Ridge Road (OC-4162)		0.5
Northwood Drive (OC-4299)	50'	0.3
O'Dell Drive (OC-1667)	50'	0.30
Darlene Drive (OC-2359)	66'	0.35
Pine Street (OC-3628)	50'	0.20
Gable Drive (OC-3547)		0.65
Elm Street (OC-3629)	50'	0.08
Deer Meadow Road (OC-1658)		200 ft. (.04m)
Felder Road (OC-3541)	50'	0.15
Netherlands Drive (OC-1324)		0.80
Stacey Bridge Road (OC-1324)		0.70
Trojan Street (OC-2400)	50'	0.25

The total mileage for this contract is 9.24 miles.

## Proposer Responsibilities

The anticipated services shall include, but are not limited to the following:

Necessary survey of roadway and drainage to outfalls (including all in the right of way - utilities, trees, etc.). The Contractor will not be responsible for outfall ditches beyond the construction right of way. Conceptual design based upon acquired rights-of-way and existing drainage — to be approved by Orangeburg County Public Works

Bimonthly meetings with Orangeburg County Public Works representative

Delineation of right of way

- o The County has attempted to obtain 50' of right of way for all roads. The Engineer/Contractor will be provided information showing properties where additional right of way has not been acquired. Every attempt should be made by the Engineer/Contractor to construct the roadway in the allowable right of way. The County will not proceed with condemnation.

- o The Engineer/Contractor will be responsible for right-of-way staking to determine clearing limits and aid with utility relocations.

Public meeting presentations, if necessary

Governmental and regulatory agency permitting — SCDOT, DHEC, OCRM, Army Corps of Engineers, **all utilities (notification of proposed work), Orangeburg County and Municipalities — if necessary**, specimen tree removal approval, etc.

Final plan for review by Orangeburg County Public Works representative.

Plans and specifications for construction

Construction support services — includes site inspections, communication with property owners, etc. Labor and equipment for roadway construction activities to include lines and grades, traffic control, clearing & grubbing rights-of-way, debris removal and disposal, site excavation, drainage, base course, erosion control, reset shrubs and fences, final cleanup and permanent seeding. - Other services deemed necessary to complete this project

## Design Requirements/Construction Requirements

The Engineer/Contractor will need to separate the Design and Construction costs in the proposal. A sample bid submittal document showing proposed quantities and unit prices for each item of work is provided in this package. A separate unit price worksheet shall be completed for each road listed in this proposal. The unit price worksheets will determine pay items on each road. This will also aid in the event that if a roadway is designed but not constructed, the County can then proceed with the proper payment to the Engineer.

The proposed road improvements will have to comply with the attached Orangeburg County Road Specifications. The design will also have to be in compliance with the SCDOT Standard Specifications 2000 and the Manual on Uniform Traffic Control Devices 2000. The County utilizes the SCDOT specifications as part of the construction requirements for all County roadways. This information is included as part of the supplementary conditions for clarification purposes.

The standard road section will have 2" asphalt (supplied and placed by the County) with 4" Graded Aggregate Base Course and will be a normal crown section with side ditches or a valley gutter section. The maximum achievable road width should be 20' for a slab section and 26' for a valley gutter section. An example of cross sections are included in this proposal. Other road sections will have to be approved by Orangeburg County Public Works.

The Engineer/Contractor will be required to submit a design schedule to the County for approval. The Engineer/Contractor will be required to meet with the Orangeburg County Public Works representative twice a month to discuss the progress of the project. It is the responsibility of the Engineer/Contractor to inform the Orangeburg County Public Works representative of any developments pertaining to the roadways. The Engineer/Contractor is to notify the Orangeburg County Public Works representative of any additional meetings that are necessary to complete the road. Orangeburg County is to be copied on all correspondence

pertaining to these roads.

As preserving specimen trees are a priority for Orangeburg County, the Design Engineer is to make every effort to avoid removing specimen trees as part of the design for the roadways. The Design Engineer is to design the roadway around specimen trees. If it is necessary that these trees are to be removed, the Design Engineer will have to meet with the Orangeburg County Public Works representative. There should be no tree replacement for relocation of trees removed from the right of way. The County will mitigate with existing trees to avoid tree replacement.

The Design Engineer is also to make every effort to minimize utility conflicts and relocation. The road should be designed to avoid conflicts with utilities if possible. The Engineer/Contractor will be required to notify the County of any possible conflicts with road design and the County will coordinate relocation with the utility company to avoid unnecessary delays during construction. The utility companies are responsible for the relocation of their lines.

It will be the Contractor's responsibility to work with the utilities on coordinating the relocation of any utilities in the roadway during construction. Also, during construction, the Contractor is to notify the Design Engineer and the Orangeburg County Public Works representative of any field changes — in order to avoid any future conflicts.

The Contractor will be required to submit construction schedules. These schedules will need to be updated and submitted to the Orangeburg County Public Works Representative monthly. The Design Engineer shall provide construction engineering and inspection as needed throughout the construction phase. The Contractor is required to submit all test reports and other verifications as required in the Orangeburg County Road Specifications. If this information is not submitted as required, work on the roadway can and will be halted until such time the information is submitted.

Once the construction on the roadway is completed, the Design Engineer, the Contractor, and a Public Works Department representative will meet to inspect the roads. A punch list will be compiled and distributed to the Contractor. Once the punch list items are addressed, the above mentioned members will meet again for a final inspection. Once the roads are agreed upon by the above mentioned members, the roads will be accepted by Orangeburg County.

It is the intention of this proposal to have a teaming relationship formed between an engineering firm and a construction company to form a Design-Build Team. This team effort should produce a design with quantities for each road in this project. A unit price worksheet should be developed for each road.

This worksheet should also include a design/engineering item with a lump sum figure for each road. Unit price worksheets should be submitted for each road with an itemized worksheet for the entire project.

One member/company of the design-build team should be considered as the prime and will bid, request and receive payments on behalf of the team. The team should decide who will be the designated prime.

The design/engineering pay item included in the unit price worksheet can be paid on the first two construction estimates provided the cost does not appear to be unbalanced. Each payment can be for ½ of the lump sum price for the design/engineering on the entire contract.

## Supplemental Specifications

### 2017 ORANGEBURG COUNTY PROJECT (E) GENERAL NOTES General

#### Notes

- Base width for ditch sections shall extend 0.5 feet beyond the edge of pavement on each side.
- Ditch slopes may be adjusted to accommodate ditch depth and to provide adequate shoulder width
- Longitudinal ditch grades may vary, but shall maintain minimum slope of 0.3% unless approved by Public Works.
- Right-of-Way information shall be provided by the County, including plats where available. Where Right-of-Way is shown from the centerline of an existing dirt road, note that the existing and proposed centerline may not coincide. The Contractor is advised to request, from the County confirmation as to the location of Right-of-Way limits.
- All grading must take place within the limits of the Right-of-Way.
- Roadway to be centered within Right-of-Way using the typical section as a template. All intersection alignments shall conform to the requirements of SCDOT Access and Roadside Management Standards (latest edition) unless otherwise approved by Public Works.
- GABC to be placed to edge of Right-of-Way on all driveway aprons. Driveway apron throat width shall be 12 feet unless otherwise noted. GABC for additional driveways or for oversized throat widths shall be paid for at the Contract unit price per square yard (SY).
- HDPE Pipe, smooth core, 24 foot lengths may be used in driveway applications unless otherwise noted by Public Works.
- All cross line and intersection culverts will be Reinforced Concrete Pipe.
- Mailboxes and road signs will need to be relocated when existing width, alignment, or radii is changed or relocation is warranted. This will be done by the Contractor.
- Drainage structures may be field-adjusted as directed by Public Works to achieve finished grade while maintaining minimum cover requirements and a minimum pipe slope of 0.5%.
- The Contractor will be responsible for the placement of permanent construction signing and temporary signing for daily construction operations.



## **TECHNICAL SPECIFICATIONS**

### **SUPPLEMENTAL SPECIFICATIONS**

The "Standard Specifications for Highway Construction, Edition of 2007" as published by the South Carolina Department of Transportation shall govern the material and workmanship on this project and is incorporated within this Contract by reference, except where modified by the Supplemental Specifications and the Special Provisions included within this section. In addition, the "Standard Drawings for Road Construction" published by the South Carolina Department of Transportation are incorporated within this Contract by reference.

The following are some of the SCDOT supplemental specifications that may pertain specifically to the Project. Additional specifications, not included, but which may be required for the project are on file with the SCDOT and are available on the SCDOT web site:

<http://www.scdot.org/doing/doing.aspx>

The list of the Supplemental Specifications provided is as follows:

- Supplemental Specification 11-07-01 Erosion Control
- Supplemental Specification 09-05-04 Errata to Standard Specification for Highway Construction
- Supplemental Specification 09-05-01 Graded Aggregate Base, Composite Mixture
- Supplemental Specification 09-01-01 Erosion Control Measure

The list of some of the Supplemental Technical Specifications that pertain are as follows:

- SC-M-714 (08/09) Permanent Pipe Culverts
- SC-M-815-2 (03/08) Silt Fence Systems

### **MOBILIZATION**

**.01 DESCRIPTION:** Mobilization consists of the preparatory operations including: moving personnel and equipment to the project site; paying bond and insurance premiums; establishing offices, buildings, and other facilities necessary for work on the project; and all other preparatory work or costs incurred before beginning work on the project.

**.02 MATERIALS:** N/A.

**.03 EQUIPMENT:** N/A.

**.04 CONSTRUCTION:** N/A

**.05 MEASUREMENTS AND PAYMENT:** The quantity for the pay item Mobilization will not be measured for payment, but will be paid as a Lump Sum item distributed as a proportion of the amount of relevant work completed and accepted by Public Works. The proportion for partial payment shall be determined by the actual operations performed, completed, and accepted by Public Works. Payment is full compensation for performing the mobilization and all other materials, labor, equipment, tools,

supplies, transportation, and incidentals necessary to complete the work in accordance with the Plans, the Specifications, and other terms of the Contract.

## **CONTROL OF WORK**

**.01 AUTHORITY OF THE ENGINEER:** Orangeburg County Public Works shall have final authority for any design or construction decisions or changes.

**.02 THE DESIGN PLANS:** The design plans or construction plans will be the responsibility of the Engineer/Contractor Design Build Team and approved by Orangeburg County Public Works.

**.03 CONFORMITY WITH PLANS AND SPECIFICATIONS:** Refer to the SCDOT 2007 Standard Specifications for Highway Construction Section 105.3 in its entirety.

**.04 COORDINATION OF PLANS, SPECIFICATIONS AND SPECIAL PROVISIONS:** The Design Build Team will provide the Construction Plans and the County will provide the specifications for materials. It is the responsibility of the Contractor to have a complete understanding of the work to be performed prior to beginning any work. The County will determine any necessary changes to the plans or specifications prior to the work being performed. The County is not responsible for any work performed without these corrections and interpretations.

**.05 COOPERATION BY CONTRACTOR:** Refer to the SCDOT 2007 Standard Specifications for Highway Construction Section 105.5 in its entirety.

**.06 COOPERATION WITH UTILITIES:** Refer to Design/Construction Requirements.

**.07 COOPERATION BETWEEN CONTRACTORS:** If applicable refer to the SCDOT 2007 Standard Specifications for Highway Construction Section 105.7 in its entirety.

**.08 CONSTRUCTION STAKES, LINES, AND GRADES:** If applicable refer to the SCDOT 2007 Standard Specifications for Highway Construction Section 105.8.2.1 - 105.8.2.6 and the following:

**MEASUREMENT AND PAYMENT:** Construction Stakes, Lines, & Grades are the responsibility of the Contractor. Stakes/Lines/Grades will not be measured for payment, but will be paid as a Lump Sum item distributed as a proportion of the amount of relevant work completed and accepted by the Engineer. In no case will the sum of all payments for this item exceed the total bid amount for Construction, Lines, & Grades, which payment is full compensation for all material, labor, equipment, tools, supplies, transportation, and incidental work, including computations necessary to satisfactorily complete the work. The payment includes all direct and indirect costs and expenses required to complete the work.

**.09 AUTHORITY AND DUTIES OF THE ENGINEERS REPRESENTATIVES:** Refer to the SCDOT 2007 Standard Specifications for Highway Construction Section 105.9 in its entirety.

**.10 INSPECTION OF WORK:** Daily inspection of work shall be the responsibility of the Design Engineer.

**.11 REMOVAL OF UNACCEPTABLE AND UNAUTHORIZED WORK:** Refer to the SCDOT 2007 Standard Specifications for Highway Construction Section 105.11 in its entirety.

**.12 LOAD RESTRICTIONS:** Refer to the SCDOT 2007 Standard Specifications for Highway Construction Section 105.12 in its entirety.

**.13 FAILURE TO MAINTAIN ROADWAY STRUCTURE:** Refer to the SCDOT 2007 Standard Specifications for Highway Construction Section 105.12 in its entirety.

**.14 EROSION CONTROL:** Temporary and Permanent erosion control measures shall be established to prevent erosion and water pollution in accordance with SCDHEC Best Management Practices and SCDOT Standard

Drawings. Contractor shall be responsible for the installation and maintenance of permanent rip rap slope protection and temporary silt fence as described in Sections 804 and 815, respectively, of these Specifications.

#### **CLEARING AND GRUBBING WITHIN RIGHT OF WAY**

**.01 DESCRIPTION:** This section contains specifications for the materials, equipment, construction, measurement, and payment for clearing and grubbing of all vegetation, debris, and obstructions within the limits of the roadway, right of way, or other easement areas, except for such objects that are designated to remain, or are to be otherwise removed in accordance with the plans or other sections of these specifications.

Certain items, including mailboxes, road signs, landscape items and others, may require removal and relocation outside of the Right-of-Way limits due to changes to the existing roadway width, alignment, or turning radii or when relocation is otherwise warranted. All moving items, as described above, shall be removed, stored and relocated in such a way as to return the items in the same or better condition, in all respects, as that which existed before construction. No measurement or payment shall be made for moving and relocating items as this work shall be considered incidental to the Pay Item: Clearing and Grubbing. The Contractor is required to determine the extent and cost of this work and to include this cost within the Lump Sum (LS) Contract unit price for Clearing and Grubbing.

**.02 MATERIALS:** none specified.

**.03 EQUIPMENT:** Ensure that the equipment necessary for the proper construction of the work is on site, in acceptable working condition, and approved by Public Works as to both type and condition before commencement of work.

**.04 CONSTRUCTION:** Where clearing and grubbing within right-of-way is required, clear and grub the entire area within the right-of-way lines. Do not cut, damage, or destroy timber beyond the right-of-way lines unless the Plans or the Special Provisions provide for clearing such areas as necessary to complete the work. Do not remove or damage trees, plant specimens, or other objects considered valuable by adjacent property owners or that are aesthetically desirable and are designated by Public Works to remain.

**.05 MEASUREMENT AND PAYMENT:** The quantity for the pay item Clearing and Grubbing will not be measured for payment, but will be paid as a Lump Sum item distributed as a proportion of the amount of relevant work completed and accepted by the Engineer. The proportion for partial payment shall be determined by the actual surface area over which clearing or grubbing operations were performed, completed, and accepted by Public Works. Payment is full compensation for performing the clearing and grubbing work as specified or directed and includes proper removal and disposal of timber and debris; removal, storage and relocation of moving items as described above; and all other materials, labor, equipment, tools, supplies, transportation, and incidentals necessary to complete the work in accordance with the Plans, the Specifications, and other terms of the Contract.

#### ROADWAY AND DRAINAGE EXCAVATION

##### SITE EXCAVATION

##### UNCLASSIFIED EXCAVATION

##### CONTINGENT BORROW EXCAVATION

**.01 DESCRIPTION:** This section contains specifications for the work associated with roadway and drainage excavation

performed on this project regardless of the materials encountered or the manner in which they are removed.

Site Excavation includes the work described in Subsection 203.2.1.1 of the SCDOT 2007 Standard Specifications.

It is the Contractor's responsibility to inspect the site and determine the actual amount of excavation needed to complete the project.

Contingent Borrow Excavation includes the work described in Subsection 203.2.1.8 of the SCDOT 2007 Standard Specifications. This is a contingent item, and its use is allowed **only with the approval of Public Works.**

**.02 MATERIALS:** Refer to the SCDOT 2007 Standard Specifications for Highway Construction Section 203.2 in its entirety.

**.03 EQUIPMENT:** Refer to the SCDOT 2007 Standard Specifications for Highway Construction Section 203.3 in its entirety.

**.04 CONSTRUCTION:** Refer to the SCDOT 2007 Standard Specifications for Highway Construction Section 203.4 in its entirety.

**.05 MEASUREMENTS AND PAYMENT:** Site Excavation will not be measured for payment but will be paid as a Lump Sum item. Refer to the SCDOT 2007 Standard Specifications for Highway Construction Section 203.5.6 and 203.6.7. Contingent Borrow Excavation will be measured and paid for at the Contract unit price per cubic yard (CY). Refer to the SCDOT 2007 Standard Specifications for Highway Construction Section 203.5.1 and 203.6.2. Payment for Site Excavation is full compensation for all labor, materials, equipment, excavation, compaction, proof-rolling, disposal and incidentals necessary to complete this item of work.

#### **DRESSING SHOULDERS**

**.01 DESCRIPTION:** Dressing Shoulders consists of dressing shoulders to meet specified typical cross-section provided for project after paving has been completed.

**.02 MATERIALS:** Refer to the SCDOT 2007 Standard Specifications for Highway Construction Section 203.2 in its entirety.

**.03 EQUIPMENT:** Refer to the SCDOT 2007 Standard Specifications for Highway Construction Section 203.3 in its entirety.

**.04 CONSTRUCTION:** Refer to the SCDOT 2007 Standard Specifications for Highway Construction Section 203.4 in its entirety.

**.05 MEASUREMENTS AND PAYMENT:** Site Excavation will be measured and paid for at the Lump Sum Price as Necessary. Dressed Shoulders will not be paid until a satisfactory inspection of said shoulders as they pertain to the specified typical cross-section has been performed by the County or Engineer. The payment shall be full compensation for all labor, materials, equipment, excavation, selected backfill material, compaction, proof rolling, disposal and incidentals necessary to complete this item of work.

### **GRADED AGGREGATE BASE COURSE**

**.01 DESCRIPTION:** This section contains specifications for the materials, equipment, construction, measurement, and payment for construction of a base course graded aggregate materials specified herein on a properly prepared foundation (sub-grade or sub-base) in conformance with the lines, grades, dimensions, and cross-sections shown on the Plans or as directed by the Engineer.

**.02 MATERIALS:** Refer to the SCDOT 2007 Standard Specifications for Highway Construction Section 305.2 in its entirety. Recycled Asphalt Pavement (RAP) is not an acceptable substitute for Graded Aggregate Base.

**.03 EQUIPMENT:** Refer to the SCDOT 2007 Standard Specifications for Highway Construction Section 305.3 in its entirety.

**.04 CONSTRUCTION:** Refer to the SCDOT 2007 Standard Specifications for Highway Construction Section 305.4 in its entirety.

**.05 MEASUREMENT AND PAYMENT:** Refer to the SCDOT 2007 Standard Specifications for Highway Construction Section 305.5.2 and Section 305.6 in its entirety.

### **CONTINGENT MAINTENANCE STONE**

**.01 DESCRIPTION:** This section contains specifications for the materials, equipment, construction, measurement, and payment for increasing the strength of the subgrade or sub-base by the addition of crushed stone, gravel, or slag in conformance with lines, grades, dimensions, and cross-sections shown on the plans or as directed by the Engineer. This is a contingent item, and its use is allowed **only with the approval of Public Works.**

**.02 MATERIALS:** Refer to the SCDOT 2007 Standard Specifications for Highway Construction Section 302.2 in its entirety.

**.03 EQUIPMENT:** Refer to the SCDOT 2007 Standard Specifications for Highway Construction Section 302.3 in its entirety.

**.04 CONSTRUCTION:** Refer to the SCDOT 2007 Standard Specifications for Highway Construction Section 302.4 in its entirety.

**.05 MEASUREMENT AND PAYMENT:** The quantity for the pay item Contingent Maintenance Stone is the weight of the aggregate incorporated into the project as specified and measured by the ton (TON) of the material as weighed in trucks on approved platform scales and incorporated into the finished work, complete and accepted. Payment for the accepted quantity of Maintenance Stone is determined using the Contract unit bid price for the item. Payment is full compensation and includes all items required for placement per the Plans, Specifications, or as directed by the Engineer.

### **MAINTENANCE OF TRAFFIC**

**.01 DESCRIPTION:** This work shall consist of all labor and material necessary to maintain traffic, both vehicular and pedestrian, on, along, or through the work area. This Item sets forth the traffic control requirements necessary for the safe and continuous maintenance of traffic throughout the area affected by the work.

**.02 MATERIALS:** All materials shall be in accordance with Division 600 of the SCDOT 2007 Standard Specifications for Highway Construction.

**.03 EQUIPMENT:** Not Applicable

**.04 CONSTRUCTION:** A predetermined Traffic Control Plan (TCP) shall be submitted seven (7) calendar days prior to the start of work. The TCP shall be submitted to Public Works for review and verification of conformance with Part VI (Temporary Traffic Control) of the latest edition of the Manual on Uniform Traffic Control Devices (MUTCD). The TCP shall address the type, size, and placement of signs, job location and personnel to be used.

- A. All traffic control devices and methods used shall conform to the Manual on Uniform Traffic Control Devices (MUTCD), latest edition.
- B. Contractor to provide sufficient number of flagmen and take all necessary precautions for the protection of the work area and safety of the public. When not in visual contact, flaggers shall be equipped with two-way radios to facilitate the safe flow of traffic through the construction zone.
- C. Signs shall be new or in like-new condition. Signs that become faded, illegible, or damaged shall be replaced as directed by the Engineer.
- D. On projects where traffic is detoured around the work area, Contractor shall place signing as shown by the TCP.
- E. On projects where traffic is to be maintained through the work area, the Contractor shall maintain one (1) lane traffic during work hours and two (2) lanes during non-work hours. Full closure with appropriate detour will be considered on a case by case basis only.
- F. Temporary traffic control devices shall be utilized throughout all construction operations. G. All salvaged material and devices, i.e. TCP signs, etc., shall become the property of the Contractor.
- H. Weeds, shrubbery, construction equipment or material, spoil, etc., shall not be allowed to obscure any traffic control device.
- I. All personnel on the project site shall comply with Federal OSHA regulations. At a minimum, all personnel shall wear reflective safety vests within the work zone.
- J. All lane closures and times shall be submitted by the Contractor in their Traffic Control Plan for approval by the Engineer.

**.05 MEASUREMENT AND PAYMENT:** Maintenance of traffic will not be measured for payment, but will be paid as a Lump Sum item distributed proportionately to each month's pay request. Any discrepancies from the Contract plans and/or the MUTCD will be documented and provided to the Contractor for resolution. Any discrepancies not resolved by the Contractor may constitute a corresponding reduction of payment. Payment will be full compensation for all labor and materials necessary to maintain traffic including but not limited to flagmen, signs, temporary pavement markings, lights, water, barricades, and furnishing, placing, replacing, repairing, restoring, and moving traffic control devices necessary for the fulfillment of the Contract requirements and implementation of the approved TCP.

### **PERMANENT PIPE CULVERTS**

**15" HDPE, SMOOTH CORE, 24' LENGTHS**

**18" HDPE, SMOOTH CORE, 24' LENGTHS**

**15" RCP, CLASS III**

**18" RCP, CLASS III**

**.01 DESCRIPTION:** This work shall consist of installing new High-Density Polyethylene Pipe (HDPE) or new Reinforced Concrete Pipe (RCP) on a firm bed to the specified line and grade and cleaning the existing pipes as shown on the construction plans or as directed by the Engineer.

**.02 MATERIALS:** Backfill shall comply with all applicable specifications of the most current SCDOT Standard

Specifications for Highway Construction Section 714 unless otherwise instructed by the Engineer. Concrete Mix shall comply with all applicable specifications of the most current SCDOT Standard Specifications for Highway Construction Division 700 unless otherwise instructed by the Engineer. Pipe shall meet all SCDOT requirements.

**.03 EQUIPMENT:** Refer to the SCDOT 2007 Standard Specifications for Highway Construction Section 714 in its entirety.

**.04 CONSTRUCTION:** Pipe lengths and gradients shall be verified by the Contractor and shall be acceptable to the Engineer before installation. Upon completion, the pipes shall be cleaned and the material disposed of properly.

- A. Excavation: When a pipe is to be laid on existing ground, on or under fill, embankment shall be constructed to a height of at least 9 in but not more than 3 ft. above the proposed top of the pipe. The trench shall then be excavated to receive the pipe. The width of trench shall be sufficient to permit thorough tamping of the backfill under the haunches and around the pipe. This width shall be twice the outside diameter of the pipe or the outside diameter plus 18 in. on each side, whichever is less.
- B. Bedding: When rock is encountered, it shall be removed and replaced with a minimum 8 in. of selected backfill as directed by the Engineer. When unsuitable foundation material is encountered, it shall be removed and replaced with selected backfill for the full width of the trench as directed by the Engineer.
- C. Installation: Pipes shall be laid with hubs up grade. A single lay hole through the shell of the pipe will be permitted with an approved lifting device. The lay hole shall be cast in the pipe during fabrication or cored without damaging any reinforcement. After installation, the lay hole shall be permanently sealed by filling with mortar, rubber plug, or other means approved by the Engineer. Wood plugs are prohibited.
- D. Joints: Joints shall be sealed with rubber type gaskets (circular pipe) or resilient type material (elliptical pipe) conforming to SCDOT specifications. Mortar joints are prohibited.
- E. Pipe Encasement: When specified in the Contract Documents or when directed by the Engineer, pipes shall be encased using Concrete as directed by the Engineer.
- F. Backfill: Earth for backfill shall be free from large lumps, clods, and rocks and shall be placed along the side of the pipe for the full width of the trench in layers not exceeding 6 inches un-compacted depth. Compaction shall conform to SCDOT standards. Each layer shall be compacted simultaneously on both sides of the pipe by means of an approved mechanical tamper. Special care shall be taken to compact the backfill thoroughly under the haunches of the pipe. This method of filling and compaction shall continue until the backfill is completed to a minimum height of 9 in. above the top of pipe. The Contractor shall protect all pipe from damage due to construction equipment or other vehicular traffic passing over the pipe. Backfill may be placed immediately after laying the pipe, provided that all joints have been sealed as specified.
- G. Removal of Existing Pipe Culverts: When specified by Public Works existing pipe culverts shall be removed and become the property of the Contractor. The Contractor is responsible for the haul-off of any demolished pipe and/or other demolition debris. Backfilling of trenches resulting from pipe removal shall comply with SCDOT specifications.

**.05 MEASUREMENT AND PAYMENT:** The payment for all HDPE and RCP will be full compensation for all removal and disposal of the existing pipe, applicable excavation, sheeting, shoring, dewatering, hauling, invert paving, storing, re-handling of material, removal and disposal of excess and unsuitable material, tamped fill, forming bed or foundation, backfill, compaction and for all material, labor, equipment, tools, and incidentals necessary to complete the work. Newly installed pipe will be measured complete in place and paid for at the Contract unit price per lineal foot.

Installed pipe will not be paid for until a satisfactory inspection of said pipe has been performed in accordance with the Construction Inspection as outlined herein.

**.06 CONSTRUCTION INSPECTION:** Visually inspect 100% of pipe for fractures, cracks, spalling, chips, and breaks during all phases of the installation process. Inspect joints, including tongues and grooves. Chipped pipe ends that prevent the full bond between joint sealant/gasket and both pipes may only be installed in drainage structures at the ends of pipe runs where they will be grouted over. Inspect installed joints for missing, damaged, or improperly installed joint sealant or gasket. Verify line and grade in accordance with the frequencies detailed in the Construction Manual.

When improper installation or damage is noted during the construction inspection of the pipe, repairs must be made to the satisfaction of the Engineer. Additional inspections may be performed until confidence is restored that the installation has been performed in accordance with these specifications.

### **CATCH BASINS, DROP INLETS, MANHOLES, JUNCTIONBOXES AND SPRING BOXES TYPE-9 CATCH BASIN**

**DROP INLET (24"x36"x3')**

**DROP INLET (24"x36"x4')**

**.01 DESCRIPTION:** Refer to the SCDOT 2007 Standard Specifications for Highway Construction Section 719.1 in its entirety.

**.02 MATERIALS:** Refer to the SCDOT 2007 Standard Specifications for Highway Construction Section 719.2 in its entirety.

**.03 EQUIPMENT:** Refer to the SCDOT 2007 Standard Specifications for Highway Construction Section 719.3 in its entirety.

**.04 CONSTRUCTION:** Refer to the SCDOT 2007 Standard Specifications for Highway Construction Section 719.4 in its entirety.

**.05 MEASUREMENT AND PAYMENT:** Refer to the SCDOT 2007 Standard Specifications for Highway Construction Section 719.5 and 719.6 in its entirety.

### **RIP RAP**

**.01 DESCRIPTION:** This section contains specifications for the materials, equipment, construction, measurement, and payment for the construction of the protective layer of broken stone used as slope protection in conformity with the Plans, Specifications or as directed by the Engineer.

**.02 MATERIALS:** Refer to the SCDOT 2007 Standard Specifications for Highway Construction Section 804.2.11 in its entirety. Contractor shall use Class 2, Type B Geotextile Fabric for erosion control under rip rap.

**.03 EQUIPMENT:** Refer to the SCDOT 2007 Standard Specifications for Highway Construction Section 804.3 in its entirety.

**.04 CONSTRUCTION:** Refer to the SCDOT 2007 Standard Specifications for Highway Construction Section 804.4.1, 804.4.2, and 804.4.6.

**.05 MEASUREMENT AND PAYMENT:** The quantity for the pay item Rip Rap shall be measured and paid for at the Contract unit price per ton (TON) of Rip Rap in-place, complete and accepted. Payment for Rip Rap is full compensation for furnishing and placing rip rap protection as specified or directed and includes preparing slopes, excavating the footing trench, furnishing and placing geotextile fabric under rip rap; and all other materials, labor, equipment, tools, supplies, transportation, and



incidentals necessary to construct the slope protection in accordance with the Plans, Specifications, or as directed by the Engineer.

### **SILT FENCE**

**.01 DESCRIPTION:** This section contains specifications for the materials, equipment, construction, measurement, and payment for the placement of temporary Silt Fence to prevent erosion and water pollution through the use of best management practices in conformity with the Plans the Specifications, SCDOT Standard drawings, or as directed by the Engineer.

**.02 MATERIALS:** Refer to the SCDOT 2007 Standard Specifications for Highway Construction Section 815.2.5 in its entirety.

**.03 EQUIPMENT:** Refer to the SCDOT 2007 Standard Specifications for Highway Construction Section 815.3 in its entirety.

**.04 CONSTRUCTION:** Refer to the SCDOT 2007 Standard Specifications for Highway Construction Section 815.4.6 in its entirety.

**.05 MEASUREMENT AND PAYMENT:** The quantity for the pay item Silt Fence shall be measured and paid for at the Contract unit price per lineal foot (LF) of silt fence in-place, complete and accepted. Payment for Silt Fence is full compensation for furnishing and installing silt fence as specified or directed and includes installation; maintenance, including removal of sediment deposits; and all other materials, labor, equipment, tools, supplies, transportation, and incidentals necessary to construct the silt fence in accordance with the Plans, Specifications, or as directed by the Engineer.

## **THE SOUTH CAROLINA MINING ACT**

The South Carolina Mining Act enacted by the General Assembly in 1973 requires that the Department adopt reclamation standards to govern activities of the Department and any person acting under contract with the Department, on highway rights-of-way or material pits maintained solely in connection with the construction, repair and maintenance of the public road systems in South Carolina.

### STANDARD PLAN FOR THE RECLAMATION OF EXCAVATED AREAS

#### ADOPTED BY THE SOUTH CAROLINA DEPARTMENT OF TRANSPORTATION

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Reclamation plans as stated herein shall include all areas disturbed in excavations of borrow and material pits, except planned inundated areas.

The final side slopes of areas excavated for borrow and material pits shall be left at such an angle so as to minimize erosion and the possibility of slides. The minimum slope in every case shall be not less than 3:1.

Small pools of water should not be allowed that are, or are likely to become noxious, odious, or foul to collect or remain on the borrow pit. Suitable drainage ditches, conduits, or surface gradient shall be constructed to avoid collection of noxious, odious, or foul pools of water unless the borrow pit is to be reclaimed into a lake or pond.

Borrow pits reclaimed to a lake or pond must have an adequate supply of water to maintain a water sufficient level to maintain a minimum water depth of four (4) feet on at least fifty (50) percent of the surface area of the lake or pond.

Excavated areas will be drained where feasible unless otherwise requested by the property owner where, in such instances, the property owner may wish to develop the excavated area for recreational purposes or for the raising of fish, or for other uses, in compliance with the South Carolina Mining Act.

Where material is stripped from the ground surface in relatively thin layers, the area, after excavation has been completed, will be thoroughly scarified and terraced and planted to establish satisfactory vegetation necessary to control erosion. Vegetative cover should be established on a continuing basis to ensure soil stability appropriate to the area. Conservation practices essential for controlling both on-site and off-site erosion and siltation must be established. A minimum of seventy-five (75) percent vegetative ground cover, with no substantial bare spots, must be established and maintained into the second growing season.

Excavated areas that are drained will be seeded to obtain a satisfactory vegetative cover. The side slopes of excavated area will be planted to vegetation.

The State Highway Engineer, or his duly appointed representative, will make a final inspection of the reclaimed area and keep a permanent record of his approval thereof. A map or sketch providing the location and approximate acreage of each pit used on the project will be made available to the Final Plans Engineer.

All applicable regulations of agencies and statutes relating to the prevention and abatement of pollution shall be complied with by the contractor in the performance of the contract.

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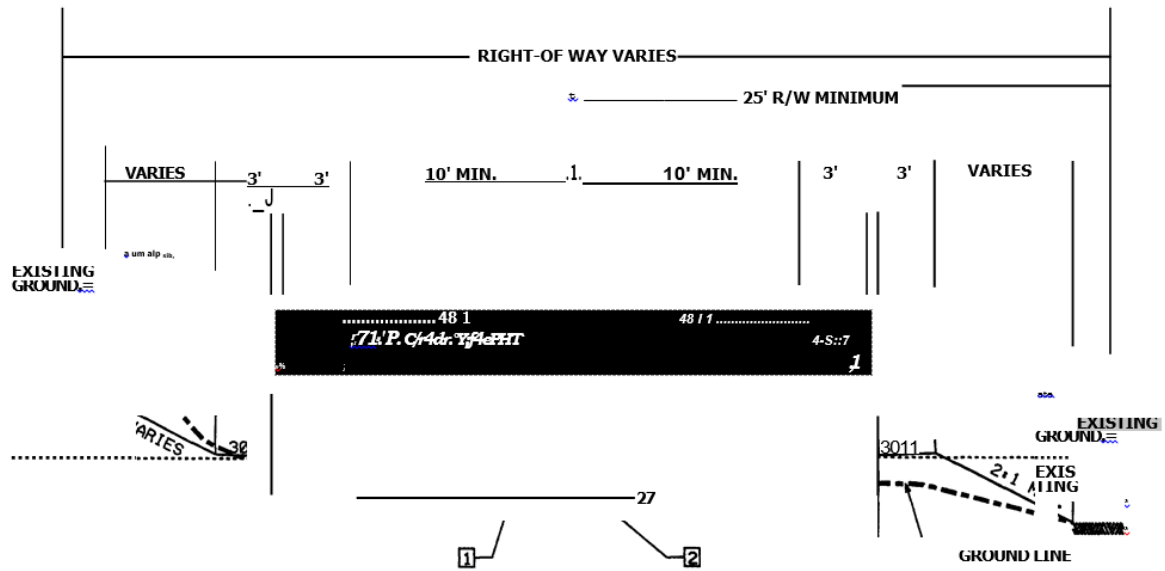
The Contractor shall comply with the provisions of the Plan which are applicable to the project as determined by the Engineer. Seeding or other work necessary to comply with the plan on pits furnished by the contractor shall be at the expense of the contractor. Bermuda shall not be planted on ground surface pit areas. The quantity of fescue seed specified in Subsection 810.04 of the Standard Specifications shall be increased by fifteen (15) pounds in lieu of the deleted Bermuda seed.

## EXAMPLE

### UNIT PRICE WORK

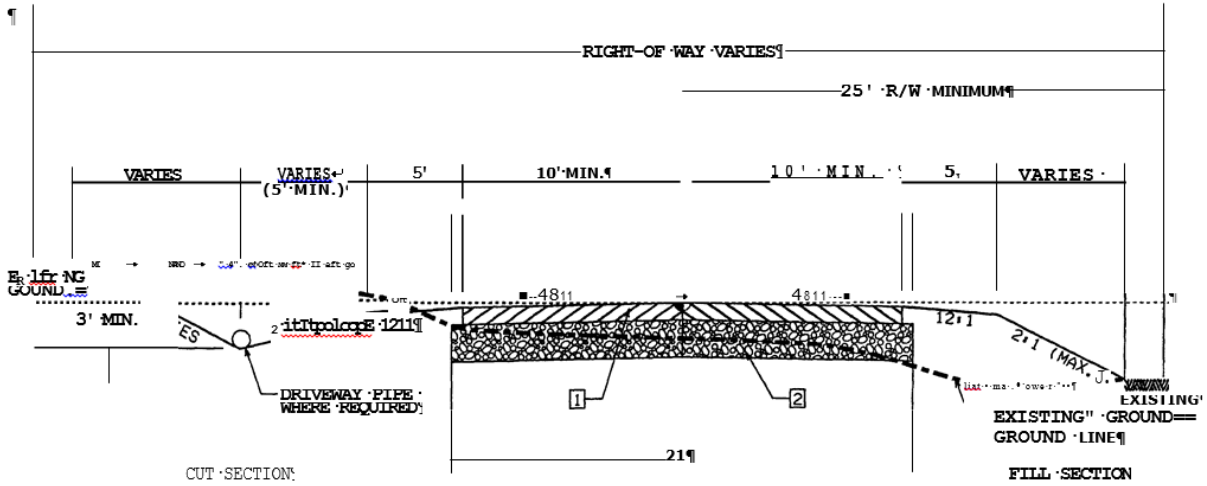
Item No.	Description	Quantity	Unit	Unit Price	Total Unit Price
1	Mobilization	NEC	LS		
2	Engineering and CEI	NEC	LS		
3	Clearing & Grubbing Right-of-Way	NEC	LS		
4	Site Excavation	NEC	LS		
5	Unclassified Excavation		CY		
6	Contingent Borrow Excavation		CY		
7	Dressing Shoulders		LF		
8	Graded Aggregate Base Course - 4"		SY		
9	Contingent Maintenance Stone		TON		
10	Traffic Control	NEC	LS		
11	15" HDPE, Smooth Core, 24' Lengths		LF		
12	18" HDPE, Smooth Core, 24' Lengths		LF		
13	15" RCP, Class III		LF		
14	18" RCP, Class III		LF		
15	Rip Rap, Class B		TN		
16	Type-9 Catch Basin		EA		
17	Drop Inlet (24"x36"x3')		EA		
18	Drop Inlet (24"x36"x4')		EA		
19	Silt Fence		LF		
20	Grassing		AC		

# ORANGEBURG COUNTY



ORANGEBURG COUNTY

Section Break (Next Page)



## Vendor Qualifications and Information

### RFP No. FY17-0321 Design Build Road Construction

Vendor shall provide with its proposal, the following which should be collated, fastened together and clearly labeled "Vendor's Certification of Qualifications and Information for RFP No. FY17-0321:

1. Documentation of vendor's general comparative experience(s) to demonstrate vendor has a minimum of three (3) years road engineering and contractor in road construction experience providing full, on-site operation. The minimum general comparative experience for this procurement is the successful completion of three (3) years of experience. All three (3) years do not have to be with the same client: vendor may accumulate the three (3) year minimum from vendor's service to several road construction vendors
2. Documentation of vendor's specific comparative experience(s) to demonstrate that vendor has a minimum of one successfully completed, one-year period of being the exclusive provider of design build road construction projects. The minimum specific comparative experience required for this procurement is one successfully completed, one-year period of being the exclusive provider of design build. The description of vendor's experience(s) should highlight whatever parallels vendor believes exist between the procurement described in RFP No. FY17-0321 and vendor's actual experience(s).
3. Documentation of a contractual relationship between vendor and a client for a current or recent design build services contract pursuant to which vendor has been the exclusive provider. One-year period. Please limit documentation to no more than five (5) contracts.
4. Three positive client references.
5. Documentation of the qualifications of vendor's proposed staff to include engineering staff.
7. Vendor's current organizational chart and a description of the general history of the vendor.
8. Documentation of the vendor's financial stability, such as a copy of its most recent annual report
10. A description of any litigation within the last 10 years to which vendor has been a party
11. Certificate of Insurance showing Workmen's Compensation Coverage and all other relevant insurance coverage's

## Evaluation Criteria

RFP No. FY17-0321 Design-Build Road Construction – C Fund Roads

If the County decides to go forward with the procurement, the award shall be made to the vendor whose proposal the County determines to be the most advantageous to the County taking into consideration the evaluation factors stated in this section. The evaluation shall be based in part on the County's review and/or verification of the Vendor Qualifications Responses. The factors to be considered in evaluating proposals are as follows, and are list in order of relative importance:

1. Demonstrated compliance with the design requirements;
2. Vendor qualifications;
3. Financial capacity;
4. Project schedule;
5. Price (or life-cycle price for design-build-operate-maintain and design-build-finance operate-maintain procurements); and
6. Other factors, if any,

The method of selection, Competitive Seal Proposals, does not require a numerical weighting for each factor. See Code §5-304.7.

Certified Proposal–Engineering/Construction  
RFP No. FY17-0321 Design Build Road Construction

Vendor proposes to perform the Scope of Work within \_\_\_\_\_ number of days(to be discussed at mandatory pre-bid )

Please use a price worksheet (last page of this document) for each road, then total the costs below.

Total Bid (All roads) from each Unit Price Work Sheets \$ \_\_\_\_\_

By signature below, the submitting vendor certifies the foregoing proposal in the following respects: proposal prices are firm for a minimum of 90 days from the date of opening; this proposal is made without prior understanding, agreement, or connection with any other submitting vendor; and this proposal is in all respects fair and without collusion or fraud.

Printed Vendor Name \_\_\_\_\_

Signature of Vendor's authorized Agent \_\_\_\_\_ Date: \_\_\_\_\_

Printed Name of Vendor's Authorized Agent \_\_\_\_\_

Title with Vendor of Vendor's Authorized Agent \_\_\_\_\_



Certification of No Exceptions

RFP No. FY17-0321 Design — Build Road Construction

The Code requires vendors to give written notice with a submission if vendor will not accept a term of the RFP and the incorporated Code as a contract term. See Code §4-302. In connection with that requirement, a vendor must complete this certification and include it in its submission. Vendor certifies the following regarding its proposal(s):

1. Vendor AGREES to all of the terms of the RFP (including the incorporated Code terms) and takes NO EXCEPTIONS:                     Yes     No

2. Vendor does NOT                    AGREE to all of the terms of the RFP (including the incorporated Code terms), and a COMPLETE LIST OF VENDOR'S EXCEPTIONS to same are listed and described below:

Yes     No

Identification

Of Excepted Vendor's

Term Description of vendor's substituted term Initials

Exception 1:    Exception 2:

Exception 3:    Exception 4:

Exception 5:

The undersigned vendor hereby certifies that the above-listed exceptions comprise the only exceptions vendor has to the RFP (including the incorporated Code terms). The undersigned vendor understands and agrees that if it is the successful vendor, its attempt to claim any exceptions other than those listed above, shall result in the County having the right to claim the bid security bond, retract the intent to award or award, award to another vendor, and suspend and/or debar the vendor.

\_\_\_\_\_  
Printed Vendor Name

\_\_\_\_\_  
Signature of Vendor's Authorized Agent

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

\_\_\_\_\_  
Printed Name of Vendor's Authorized Agent

\_\_\_\_\_  
Title with Vendor of Vendor's Authorized Agent

Addendum Acknowledgement

RFP No. FY17-0321 Design—Build Road Construction

Vendor acknowledges receipt of the follow Addendum to the above-described procurement, agrees that same is/are hereby incorporated and made a part of the above-described procurement as if the Addendum had been included in the original procurement documents:

Addendum No.	Addendum Date	Initials of Vendor's Authorized Agent
_____	_____	_____
_____	_____	_____
_____	_____	_____

Vendor shall submit a completed Addendum Acknowledgement form with its submission.

**Vendor may be disqualified from this procurement unless vendor submits a completed Addendum Acknowledgement form referring to this Addendum with vendor's proposal.**

**PLEASE MAKE COPIES AND USE FOR EACH ROAD**

**UNIT PRICE WORK**

<b>Item No.</b>	<b>Description</b>	<b>Quantity</b>	<b>Unit</b>	<b>Unit Price</b>	<b>Total Unit Price</b>
<b>1</b>	<b>Mobilization</b>	<b>NEC</b>	<b>LS</b>		
<b>2</b>	<b>Engineering and CEI</b>	<b>NEC</b>	<b>LS</b>		
<b>3</b>	<b>Clearing &amp; Grubbing Right-of-Way</b>	<b>NEC</b>	<b>LS</b>		
<b>4</b>	<b>Site Excavation</b>	<b>NEC</b>	<b>LS</b>		
<b>5</b>	<b>Unclassified Excavation</b>		<b>CY</b>		
<b>6</b>	<b>Contingent Borrow Excavation</b>		<b>CY</b>		
<b>7</b>	<b>Dressing Shoulders</b>		<b>LF</b>		
<b>8</b>	<b>Graded Aggregate Base Course - 4"</b>		<b>SY</b>		
<b>9</b>	<b>Contingent Maintenance Stone</b>		<b>TON</b>		
<b>10</b>	<b>Traffic Control</b>	<b>NEC</b>	<b>LS</b>		
<b>11</b>	<b>15" HDPE, Smooth Core, 24' Lengths</b>		<b>LF</b>		
<b>12</b>	<b>18" HDPE, Smooth Core, 24' Lengths</b>		<b>LF</b>		
<b>13</b>	<b>15" RCP, Cass III</b>		<b>LF</b>		
<b>14</b>	<b>18" RCP, Cass III</b>		<b>LF</b>		
<b>15</b>	<b>Rip Rap, Class B</b>		<b>TN</b>		
<b>16</b>	<b>Type-9 Catch Basin</b>		<b>EA</b>		
<b>17</b>	<b>Drop Inlet (24"x36"x3')</b>		<b>EA</b>		
<b>18</b>	<b>Drop Inlet (24"x36"x4')</b>		<b>EA</b>		
<b>19</b>	<b>Silt Fence</b>		<b>LF</b>		
<b>20</b>	<b>Grassing</b>		<b>AC</b>		

The following pages are intentionally left blank.

