

## INVITATION FOR BIDS

Issue Date: December 15, 2016

Title: Village Building Parking and Drainage Improvements

Issuing Entity: County of Powhatan, Virginia  
Department of Public Works

Period of Contract 120 days Substantial Completion

**SEALED BIDS SUBJECT TO THE TERMS, CONDITIONS, AND SPECIFICATIONS HEREIN WILL BE RECEIVED UNTIL 2:00PM ON JANUARY 16, 2017 LOCAL PREVAILING TIME AT WHICH TIME THEY WILL BE PUBLICLY OPENED AND MADE A PART OF THE PUBLIC RECORD FOR FURNISHING THE GOODS/SERVICES DESCRIBED HEREIN. BIDS SHALL BE SUBMITTED IN A SEALED CONTAINER. THE FACE OF THE CONTAINER SHALL BE CLEARLY MARKED IN THE LOWER LEFT CORNER AS FOLLOWS:**

**IFB#: 2016-02**

**For: Village Building Parking and Drainage Improvements**

All inquiries for information should be directed to:

County of Powhatan Finance Office  
Attention: Charla Schubert  
3834 Old Buckingham Road, Suite B  
Powhatan, VA 23139

Sealed bids shall be mailed, delivered by courier, or hand delivered to:

County of Powhatan Finance Office  
Attention: Charla Schubert  
3834 Old Buckingham Road, Suite B  
Powhatan, VA 23139

Bids must be submitted by the date and time stated above or they will remain unopened. No allowance will be made for postmark or error in delivery to incorrect address. It is the sole responsibility of the Contractor to ensure timely and correct delivery of bid to the address above.

**PRE-BID CONFERENCE:** A pre-bid conference will be held on January 9, 2016 at 10AM in the Village Building at 3910 Old Buckingham Road in the main floor conference room and a tour of the project site will follow.

***This public body does not discriminate against faith-based organizations in accordance with the Code of Virginia, § 2.2-4343.1 or against a bidder or offeror because of race, religion, color, sex, national origin, age, disability, or any other basis prohibited by state law relating to discrimination in employment.***

## Village Bldg. Parking and Drainage Improvements

### **Bid Documents:**

Bid documents which include drawings, specifications and forms may be obtained from:  
Powhatan County Public Works Department, 3849 Old Buckingham Rd, Powhatan, VA 23139,  
between the hours of 9:00 a.m. and 5:00 p.m. for a fee of \$ 30.00 non-refundable, beginning  
December 15, 2016

Bid Documents are also open for public inspection at the following locations:

1. Powhatan County Homepage Website
2. eVA

Village Bldg. Parking and Drainage Improvements

**Obligation of Contractor:** By submitting a bid, the Contractor covenants and agrees that he has satisfied himself, from his own investigation of conditions to be met, that he fully understands his obligation and that he will not make any claim for, or have right to cancellation or relief from the resulting contract because of any misunderstanding or lack of information.

Contractor further agrees that conditions herein have been carefully read and this bid is submitted subject to all requirements stated herein. The undersigned hereby acknowledges and agrees, if this bid is accepted, to furnish all services agreed upon in strict accordance with contract.

Name and Address of Firm: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Date:

By: \_\_\_\_\_  
(Signature in Ink)

Name: \_\_\_\_\_  
(Please Print)

Title: \_\_\_\_\_  
(Please Print)

FEI/FIN NO. \_\_\_\_\_

Phone: \_\_\_\_\_

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

Email: \_\_\_\_\_

State Corporation Commission (SCC) ID number \_\_\_\_\_

Powhatan County Business License No. (if applicable) \_\_\_\_\_

ESCROW ACCOUNT ELECTION:

**ELECTION OF ESCROW ACCOUNT PROCEDURE FOR RETAINAGE**

If determined to be the successful low bidder(s), the above signed elects to use the Escrow Account Procedure for retainage.

---

Write "Yes" or "No" on above line

If the successful bidder elects to use the Escrow Account Procedure for Retainage, the "Escrow Agreement" form shall be executed and submitted to the County of Powhatan within fifteen (15) calendar days after notification. If the "Escrow Agreement" form is not submitted within the fifteen (15) day period, the Contractor shall forfeit his rights to the use of the Escrow Account Procedure.

Company \_\_\_\_\_

Authorized Signature \_\_\_\_\_

# Village Bldg. Parking and Drainage Improvements

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### **SECTION I – INVITATION FOR BID DETAIL**

#### **A. PURPOSE**

The purpose of this project is to improve the parking and drainage around the Village Building to provide enhanced access and additional parking. Another purpose of the project is to provide improved handicap accessibility to the building by eliminating gravel parking areas and water ponding areas.

#### **B. PROJECT DESCRIPTION**

The project consists of milling and overlaying existing asphalt, grading and installation of new asphalt paving, concrete curb and gutter and drainage improvements as shown on the project plans and specifications.

#### **C. SUBMISSION AND ADDITIONAL INFORMATION**

### **SUBMISSION AND ADDITIONAL INFORMATION**

Submit bid, using forms furnished in this IFB and filling in all blank spaces, addressed as indicated on the front page of this solicitation.

Contractors shall include the following with their submission:

- Completed Signature Page (Page 3)
- Certificate of Non-Collusion (Page 11)
- Completed Bid Form (Pages 8)
- Bid Security (See Instructions Page 20 section 2.21)
- Reference List (Page 12)
- Addenda

CONTRACTORS REQUEST FOR INFORMATION & CLARIFICATION

Questions pertaining to any information or requests relative to interpretation or clarification of contract documents, terms or conditions, specifications, plans or drawings of this IFB will be accepted from any and all bidders but must be in writing and directed to the Director of Finance identified on the cover page. Unauthorized contact with other Powhatan County staff may result in disqualification of the bidder. Deadline for **Request for information (RFI) must be received by 5:00pm, December 12<sup>th</sup>, 2016**. RFIs are to be emailed to [cschubert@powhatanva.gov](mailto:cschubert@powhatanva.gov). Any material change will be submitted to all bidders through issuance of an addendum. It is the responsibility of the Contractors to ensure they have received all addenda. Addenda can be found on the eVA solicitation page or on the Powhatan County webpage under “Bids Opportunities.”

CONTRACT PERIOD

The contract period shall be from Notice to Proceed and be substantially complete within 120 calendar days.

PAYMENT TERMS

See General Terms and Conditions (Article 15 General Contractors Compensation)

AWARD

The award will be made to the lowest responsive and responsible Bidder meeting the requirements of the solicitation.

**D. SPECIFICATIONS**

- 01 0200 GENERAL SITEWORK
- 02 4113 SELECTIVE SITE DEMOLITION
- 31 2000 EARTHWORK (UNCLASSIFIED)
- 31 2500 EROSION CONTROL
- 32 1216 ASPHALT PAVING
- 32 1700 PAVEMENT MARKINGS SIGNS, AND SPECIALTIES
- 32 9200 LAWNS AND GRASSES
- 32 9300 EXTERIOR PLANTS

**E. SUBMITTALS**

Submit shop drawings for the following:

1. Walk layout drawing confirming dimensions and slopes
2. Concrete mix design
3. Asphalt mix design
4. Sub-base mix design
5. Architectural Precast Concrete
6. Lighting Fixtures and Electrical Work
7. Schedule of Values
8. Construction Schedule- showing critical path items as described in the General Conditions

**F. BID FORM**

**BID FORM**

**IFB # 2016-02**

**Village Building Parking and Drainage Improvements**

**THIS BID IS SUBMITTED TO:**

County Administrator's Office  
Attention: Charla Shubert  
3834 Old Buckingham Road  
Powhatan, VA 23139

1. The undersigned BIDDER proposes and agrees, if this Bid is accepted, to enter into an Agreement with OWNER in the form included in the Contract Documents to perform and furnish all Work as specified or indicated in the Contract Documents for the Bid Price and within the Bid times indicated in this Bid and in accordance with the other terms and conditions of the Contract Documents.

2. BIDDER accepts all of the terms and conditions of the Advertisement or Invitation to Bid and Instructions to Bidders, including, without limitation, those dealing with the disposition of Bid Security. This Bid will remain subject to acceptance for sixty (60) business days after the day of Bid opening. BIDDER will sign and submit the Agreement with the Bonds and other documents required by the Bidding Requirements within fifteen business days after the date of OWNER's Notice of Award.

3. In submitting this Bid, BIDDER represents, as more fully set forth in the Agreement, that the BIDDER:

a) has examined and carefully studied the Bidding Documents and the following addenda, receipt of all which is hereby acknowledged:

b) has visited the site and become familiar with and is satisfied as to the general, local and site conditions that may affect cost, progress, performance and furnishing of the Work;

c) is familiar with and is satisfied as to all federal, state and local Laws and Regulations that may affect cost, progress, performance and furnishing of the Work;

d) has correlated the information known to BIDDER, information and observations obtained from visits to the site, reports and drawings identified in the Contract Documents and all additional examinations, investigations, explorations, tests, studies and data with the Contract Documents.

e) has given the County written notice of all conflicts, errors, ambiguities or discrepancies that BIDDER has discovered in the Contract Documents and the written resolution thereof by the County is acceptable to BIDDER, and the Contract Documents are generally sufficient to indicate

Village Bldg. Parking and Drainage Improvements

and convey understanding of all terms and conditions for performing and furnishing the Work for which this Bid is submitted.

4. BIDDER understands that work is to start no later than thirty (30) days after contract is executed and Notice to Proceed is issued. Given the minimum temperature requirements, Notice to Proceed may be delayed if requested by the Contractor but shall not be issued any later than April 30, 2017. Substantial Completion of the entire project shall be one hundred and twenty (120) consecutive **calendar** days from the Notice to Proceed.

**BID FORM**

**THE FOLLOWING PRICING IS SUBMITTED FOR THE VILLAGE BUILDING PARKING AND DRAINAGE IMPROVEMENTS IFB FOR THE COUNTY OF POWHATAN, VIRGINIA**

Total Base Bid shall be to provide all supervision, equipment, labor, mobilization and materials necessary to complete the work as described per all terms, conditions and specifications herein. Contract award will be based on the **TOTAL BASE BID AMOUNT** (including any properly submitted bid modifications) that the Owner, in its discretion, decides to award.

Part A – Virginia Contractor’s Registration Number

<i>Name</i>	<i>License Number</i>	<i>Class</i>

**PRINT** legibly or provide a copy of current license.

Part B – **Pricing:**

Items: Project will be awarded the lowest responsive and responsible bidder meeting all the requirement of this IFB.

Village Bldg. Parking and Drainage Improvements

NO.	ITEM/DESCRIPTION	UNIT	QTY	COST	TOTAL
1	Mobilization	LS	1		
2	Erosion control	LS	1		
3	Demolition of trees, asphalt & concrete, haul off-site	LS	1		
4	Asphalt milling & saw cutting	LS	1		
5	Asphalt & stone aggregate	LS	1		
6	Concrete sidewalk & dumpster pad	SY	300		
7	Curb & gutter	LF	320		
8	Blanket & matting, storm sewer, riprap	LS	1		
9	Fine grading	AC	1		
10	Striping, signage, trash enclosure & bumper blocks	LS	1		
11	Landscaping	LS	1		
12	Lighting	LS	1		

For a **TOTAL LUMP SUM BASE BID** of:

\$ \_\_\_\_\_  
**Basis of Award**

Bid Additive Item: Pervious Pavement & Drainage System (lump sum) \$ \_\_\_\_\_

ACKNOWLEDGE RECEIPT OF:

Addendum #1 \_\_\_\_\_

Addendum #2 \_\_\_\_\_

Addendum #3 \_\_\_\_\_

**COUNTY OF POWHATAN**  
**WORKERS' COMPENSATION**  
**Certificate of Coverage**

Section 2.2-4332, Code of Virginia, requires construction contractors and subcontractors to obtain and maintain workers' compensation insurance coverage required pursuant to the provisions of Chapter 8 (§ [65.2-800](#) et seq.) of Title 65.2, while performing work on behalf of the County of Powhatan.

Evidence of coverage must be provided prior to commencement of Work.

This form must be completed and returned to the County.

The undersigned organization stipulates that it:

- A. has workers' compensation insurance and is in compliance with the Workers' Compensation statutes of the Commonwealth of Virginia.  Yes  No  
Insurance Company \_\_\_\_\_  
Policy expiration date \_\_\_\_\_
- B. is self insured for workers' compensation.  Yes

Title of Construction Contract: \_\_\_\_\_

Contract Number: \_\_\_\_\_

Signed by: \_\_\_\_\_

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

Firm Name: \_\_\_\_\_

Address: \_\_\_\_\_

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

CERTIFICATION OF NON-COLLUSION

The undersigned, acting on behalf of \_\_\_\_\_,  
does hereby certify in connection with the procurement and bid to which this certification  
of Non-Collusion is attached that:

This bid is not the result of, or affected by, any act of collusion with another  
person engaged in the same line of business or commerce: nor is this bid the result of, or  
affected by, any act of fraud punishable under Article 1.1 of Chapter 12 of Title 18.2  
Code of Virginia, 1950 as amended (§ 18.2-498.4 et seq.)

\_\_\_\_\_  
Signature of Company Representative

\_\_\_\_\_  
Print Name

\_\_\_\_\_  
Title

\_\_\_\_\_  
Name of Company

\_\_\_\_\_  
Date

ACKNOWLEDGEMENT  
STATE OF VIRGINIA  
County of Powhatan, to wit:

The foregoing Certification of Non-Collusion bearing the signature of \_\_\_\_\_  
and dated \_\_\_\_\_ was subscribed and sworn to before the  
undersigned notary public by \_\_\_\_\_ on \_\_\_\_\_.

\_\_\_\_\_  
Notary Public

My commission expires: \_\_\_\_\_

Village Bldg. Parking and Drainage Improvements

CODE OF VIRGINIA

§18.2-498.4. Duty to provide certified statement.

A. The Commonwealth, or any department or agency thereof, and any local government or any department or agency thereof, may require that any person seeking, offering or agreeing to transact business or commerce with it, or seeking, offering or agreeing to receive any portion of the public funds or moneys, submit a certification that the offer or agreement or any claim resulting thereon is not the result of, or affected by, any act of collusion with another person engaged in the same line of business or commerce, or any act of fraud punishable under this article.

B. Any person required to submit a certified statement as provided in paragraph A above who knowingly makes a false statement shall be guilty of a Class 6 felony. ( 1980, c.472)

EXPERIENCE

Bidders shall furnish satisfactory evidence with their bids of their ability to perform the work as specified. This evidence should include experience as a general contractor and a list of at least three (3) references for similar projects.

QUALIFICATIONS OF CONTRACTORS

The County reserves the right to conduct any tests it may deem advisable and to make all evaluations. The County may make such reasonable investigations as deemed proper and necessary to determine the ability of the Contractor to perform the services/furnish the goods and the Contractor shall furnish to the County all such information and data for this purpose as may be requested. The County reserves the right to inspect offer's physical facilities prior to award to satisfy questions regarding the Contractors capabilities. The County further reserves the right to reject any bids if the evidence submitted by, or investigations of such Contractor fails to satisfy the County that such Contractor is properly qualified at carry out the obligations of the contract and to provide the services and/or furnish the goods of this IFB.

**REFERENCES**

<b>1</b>	<b>Contract Date</b>	<b>Client Name &amp; Address</b>	<b>Contract Amount</b>
	<b>Contact Name, Phone and Email</b>		
<b>Project Title, Location and Description</b>			

<b>2</b>	<b>Contract Date</b>	<b>Client Name &amp; Address</b>	<b>Contract Amount</b>
	<b>Contact Name, Phone and Email</b>		
	<b>Project Title, Location and Description</b>		

<b>3</b>	<b>Contract Date</b>	<b>Client Name &amp; Address</b>	<b>Contract Amount</b>
	<b>Contact Name, Phone and Email</b>		
	<b>Project Title, Location and Description</b>		

**SECTION II –INSTRUCTIONS**

**COUNTY OF POWHATAN, VIRGINIA INSTRUCTIONS TO BIDDERS  
For  
PROCUREMENT OF CONSTRUCTION AND RELATED SERVICES**

The general instructions, rules and conditions which follow apply to procurement of construction and construction related services conducted by the County of Powhatan, unless otherwise specified. Bidders are expected to inform themselves fully as to all applicable terms, conditions, instructions, requirements and specifications, before submitting bids. Failure to do so will be at the bidder’s own risk, and relief cannot be secured on the plea of error.

Subject to all laws, policies, resolutions and regulations of the Commonwealth of Virginia and the County of Powhatan, and all applicable rules, regulations and limitations, if any, imposed by

legislation of the Federal government, bids submitted in response to a solicitation issued by the County of Powhatan will bind bidders to the conditions and requirements herein set forth, unless otherwise expressly specified in the solicitation.

## **SECTION 1: DEFINITIONS**

**1.1** “Agency” means any department, agency, authority, commission, board or other unit in the administrative service of the County.

**1.2** “Bid” means the offer of a bidder to provide specific goods or services at specified prices and/or other conditions specified in the solicitation.

**1.3** “County” means the County of Powhatan, Virginia and its agencies, officials, officers, employees, agents and designated representatives.

**1.4** “Contractor” shall have the same meaning as “successful bidder,” as set forth below.

**1.5** “Construction Documents” shall mean the plans, specifications, approved change orders, revisions, addenda and other information approved by the County, which set forth in detail the Work to be performed for a construction Project.

**1.6** “Goods” means all material, equipment, supplies, printing and automated data processing hardware and software.

**1.7** “Informality” means a minor defect or variation of a bid from the exact requirements of a solicitation, which does not affect the price, quality, quantity or delivery schedule for the goods or services being procured.

**1.8** “Invitation for Bids,” “Invitation to Bid,” and “IFB” shall each mean a competitive sealed bidding procurement process by which a request is made to prospective suppliers (bidders) for their quotation on goods or services desired by the County. The issuance of an IFB will contain or incorporate by reference the specifications and contractual terms and conditions applicable to the procurement.

**1.9** “Purchasing Agent” means the head of the County’s Purchasing Department, or a designated contact person acting for him or at his direction.

**1.10** “Responsible Bidder” means a bidder having the capability in all respects to perform fully the contract requirements, and who has the moral and business integrity and reliability which will assure good faith performance of the contract sought to be procured, and who has been pre-qualified, if required.

**1.11** “Responsive Bidder” means a bidder who has submitted a bid or proposal which conforms in all material respects to the IFB.

**1.12** “Services” means any work performed by an independent contractor wherein the service rendered does not consist primarily of acquisition of equipment or materials, or the rental of equipment, materials and supplies.

**1.13** “Solicitation” means the process of notifying prospective bidders that the County wishes to receive bids on a set of requirements to provide goods or services. The notification of County requirements may consist of public advertising, the mailing of an IFB or the public posting of notices.

**1.14** “State” means the Commonwealth of Virginia.

**1.15** “Successful bidder” means the lowest responsive and responsible bidder to whom a contract is awarded as a result of a competitive sealed bidding procedure conducted by the County. The term “contractor” and “general contractor,” as used herein, shall mean “successful bidder.”

**1.16 “Regulations:** The term “regulations” includes laws, ordinances, statutes, and lawful orders issued by authorities having jurisdiction, as well as rules, conventions, and agreements within the construction industry that control performance of the work.

**1.17 “Install”:** The term “install” describes operations at the project site including the actual unloading, temporary storage, unpacking, assembling, erecting, placing, anchoring, applying, working to dimension, finishing, curing, protecting, cleaning and similar operations.

**1.18 “Installer”:** The term “installer” is the CONTRACTOR or another entity engaged by the CONTRACTOR, either as an employee, SUBCONTRACTOR, or CONTRACTOR of lower tier, who performs a particular construction activity including installation, erection, application, or similar operations. Installers are required to be experienced in the operations they are engaged to perform.

a) The term “EXPERIENCED”, when used with the term “installer”, means having successfully completed a minimum of 3 previous projects similar in size and scope to this project; being familiar with the special requirements indicated; and having complied with requirements of authorities having jurisdiction.

b) Trades: Using terms such as ‘carpentry’ does not imply that certain construction activities must be performed by accredited or unionized individuals of a corresponding generic name, such as “carpenter”. It also does not imply that requirements specified apply exclusively to trades people of the corresponding generic name.

c) Assigning Specialists: Certain sections of the specifications require that specific construction activities shall be performed by specialists who are recognized experts in those operations. The specialists must be engaged for those activities, and their assignments are requirements over which the CONTRACTOR has no option. However, the ultimate responsibility for fulfilling contract requirements remains with the CONTRACTOR.

d) This requirement shall not be interpreted to conflict with enforcing building codes and similar regulations governing the work. It is also not intended to interfere with local trade-union jurisdictional settlements and similar conventions.

**1.19 “Consultant”** refers to the County’s designated consultant, who may represents the OWNER to perform observation on the construction of the contract contained herein.

**SECTION 2: TERMS, CONDITIONS, INSTRUCTIONS APPLICABLE TO PROCUREMENT**

**2.01** Bids must be submitted in a sealed envelope with the outside marked in the lower left hand corner as follows:

**IFB# 2016-02**

**FOR: Village Building Parking and Drainage Improvements**

**License No. \_\_\_\_\_ Class \_\_\_\_\_ Expires \_\_\_\_\_**

Each bidder is solely responsible for delivering his bid to the correct location on or before the date and time on which bids are scheduled to be received by the County. Any bid/modification received at the office designated in the solicitation after the exact time specified for receipt of the bid/modification is considered a late bid/modification. A late bid/modification cannot be considered for award.

**2.02** The time of receipt of a bid at the specified location is the time/date stamp of such location on the bid wrapper or other documentary evidence of receipt maintained by the specified location. No consideration will be given to date of postmark.

**2.03** The County reserves the right to accept or reject any or all bids in whole or in part and to waive any informality in the bid. Informality shall be defined as a minor defect or variation from the exact requirements which does not affect the price, quality, quantity or delivery schedule.

**2.04** The specification herein is intended to indicate the character, quality and/or performance of the goods or services desired. Unless qualified by provision "No Substitute" the name of a brand, manufacturer or catalog designation does not restrict the bidder to that brand or manufacturer. Alternates to the specified goods or service will be considered to the extent that such action is deemed in the best interest of the County.

**2.05** The County will assume no responsibility for oral instruction or interpretation. Any question regarding the procurement solicitation shall be in writing (electronic transmission is preferred.) and directed to Ramona Carter at [rcarter@powhatanva.gov](mailto:rcarter@powhatanva.gov). **Questions must be received by 5:00 P.M. December 12th, 2016.** Questions submitted beyond the time specified above may be left unanswered if sufficient time does not allow a response to all prospective bidders without causing an unacceptable delay in the process.

**2.06** Modification of or corrections to bids are not acceptable after bids have opened. Erroneous bids may be reclaimed or superseded any time prior to bid opening time. Any new bid must be marked as in 1.01 with the additional notation "Supersedes all previous submissions."

a) Any bidder may withdraw or modify its bid, by a writing containing the original signature of the bidder, which writing must be received by the County prior to the date and time set for submission of bids. Withdrawal or modification shall be delivered by one of the following means: (i) hand delivery by the bidder itself, a courier, or other delivery service; (ii) by mail (no consideration shall be given to any postmark); or (iii) by email or facsimile received prior to the date and time set for submission of bids, followed by written confirmation containing the original signature of the bidder, where the County is able to determine that the written confirmation was or has been sent out by the bidder prior to the date and time set for submission of the bids, or (iv) by marking(s) on the exterior of the bid submission envelope, but only if the marking is dated and includes the original signature of the bidder. If written confirmation of an email or facsimile communication is not, in fact, received by the County within five days following the date and time set for submission of bids, no consideration will be given to the requested withdrawal or modification.

b) Written withdrawals or modifications of bids should not reveal the bid price contained in the previously submitted sealed bid, but should simply provide the desired addition, subtraction or modification, so that the final price or terms of the bid will not be known to the County until the sealed bids are opened.

**2.07** Identity of bidders, except in the case of construction contracts, will not be disclosed prior to bid opening.

**2.08** Each bidder is and shall be subject to the provisions of the Virginia Governmental Frauds Act, Virginia Code, Title 18.2, Chapter 12, Article 1.1. In compliance with this law, each bidder is required to submit a certification that its bid, or any claim resulting therefrom, is not the result of, or affected by, any act of collusion with another person engaged in the same line of business or commerce, or any act of fraud punishable under the Act. Any bidder who knowingly makes a false statement on the Certificate of No Collusion shall be guilty of a felony, as provided in

## Village Bldg. Parking and Drainage Improvements

Virginia Code §18.2-498.5. As part of this bid a notarized Certificate of No Collusion must be submitted with the bid.

**2.09** The County is exempt from the payment of Federal and State taxes. Include only taxes applicable to the project in this bid. Prices bid must be net, exclusive of taxes. Include only taxes applicable to the project in this bid.

**2.10** Public notice of the award of this contract, or the announcement of the decision to award this contract, shall be given in the following manner: posting of a notice on the County web page. Tabulations of bids are a matter of public record and are available upon request.

**2.11** Awards shall be based on determination of the lowest responsive and responsible bidder. No contract may be awarded to a bidder who is determined by the Purchasing Agent to be non-responsible. No contract may be awarded to a bidder who is determined by the Purchasing Agent to be non-responsible. In determining the responsibility of a bidder, the following criteria will be considered:

- a). The ability, capacity or skill of the bidder to perform the contract or provide the services required;
- b). Whether the bidder can perform the contract or provide the service promptly, or within the time specified, without delay or interference;
- c). The character, integrity, reliability, reputation, judgment, experience and efficiency of the bidder;
- d). The quality of performance on previous contracts or services, for the County or others;
- e). The previous and existing compliance by a bidder with laws and ordinances relating to the contract or service;
- f). The sufficiency of the financial resources and ability of the bidder to perform the contract or provide the service;
- g). The quality, availability, and adaptability of the goods or services to the particular use required;
- h.. The number and scope of any conditions attached to the bid;
- i). Whether the bidder is in arrears to the County on a debt or contract or is in default on a surety to the County, and whether the bidder's County taxes or assessments are delinquent;
- j). Such other information as may be secured by the Purchasing Agent, having a bearing on the decision to award the contract.

Upon request by the County, it shall be the responsibility of each bidder to ensure that the bid submitted contains information sufficient to enable the County to evaluate each of the above-referenced criteria.

**2.12** All prices submitted must be FOB Destination - Freight Prepaid and Allowed.

**2.13** Unless otherwise noted any equipment bid shall be new, unused, of current production and standard to the manufacturer. Where any part or nominal appurtenances of equipment are not described it shall be understood that all equipment and appurtenances standard to or recommended by the manufacturer for complete and safe use shall be included as part of this bid.

**2.14** A Material Safety Data Sheet is required for all chemicals proposed to be furnished as a result of this bid. The MSDS must; list all ingredients which constitute more than 1% of the product (.1% for known or suspected carcinogens); identify the product by common or chemical name; provide physical and chemical characteristics of any hazardous components; list any known acute or chronic health effects; specify exposure limits, precautionary measures, and emergency and first aid procedures.

**2.15** Every contract over \$10,000 shall include the following provisions:

***Non-discrimination Clause:***

During the performance of this contract, the General Contractor agrees that it will not discriminate against any employee or applicant for employment because of race, religion, color, sex, national origin, age, disability or any other basis prohibited by law relating to discrimination in employment, except where there is a bona fide occupational qualification reasonably necessary to the normal operation of the contractor. The General Contractor agrees to post in conspicuous places, available to employees and applicants for employment, notices setting forth the provisions of this nondiscrimination clause. Also, the General Contractor, in all solicitations or advertisements for employees placed by or on behalf of the contractor, will state that it is an equal opportunity employer.

***Drug-Free Workplace Clause***

During the performance of this contract the contractor agrees as follows: (i) to provide a drug-free workplace for the contractor's employees; (ii) to post in conspicuous places, available to employees and applicants for employment, a statement notifying employees that the unlawful manufacture, sale, distribution, dispensation, possession, or use of a controlled substance or marijuana is prohibited in the contractor's workplace and specifying the actions that will be taken against employees for violations of such prohibition; and (iii) state in all solicitations or advertisements for employees placed by or on behalf of the contractor that the contractor maintains a drug-free workplace. For the purposes of this paragraph, "drug-free workplace" means a site for the performance of work done in connection with the contract awarded to a contractor in accordance with this procurement transaction, where the contractor's employees are prohibited from engaging in the unlawful manufacture, sale distribution, dispensation, possession or use of any controlled substance or marijuana during the performance of the contract.

**2.16** The County of Powhatan does not discriminate against faith based organizations.

**2.17** If the bid determined to be the lowest responsive and responsible bid exceeds available funds, the County may, at its discretion, negotiate with that bidder to obtain a contract price within available funds. The process for negotiating with an apparent low bidder, should the lowest bid exceed available funds, shall be as follows: the County and/or its designated representative, and the Apparent Low Bidder, together, will review the Project and attempt to find mutually agreeable proposed changes that will effectively reduce the cost of the Project. The apparent low bidder will present documented and substantiated proposed deductions in the Project cost, for each potential project change, which will allow the County to re-evaluate each proposed deduction. The parties will endeavor to negotiate a reasonable price for the entire Project which does not exceed available funds. In the event that such negotiations fail, the County may terminate negotiations with the apparent low bidder and repeat the foregoing process with the next lowest responsive and responsible bidder, until a successful contract can be negotiated within available funds or until negotiations appear useless, at which time all negotiations will be terminated

**2.18** It is the policy of the County of Powhatan to facilitate the establishment, preservation and strengthening of small businesses and businesses owned by women and minorities (SWAM) and to encourage their participation in the County's procurement activities. Toward that end, the County of Powhatan encourages SWAM businesses to compete for County projects. In addition, the County strategy encourages all bidders to provide for the participation of SWAM businesses through partnerships, joint ventures, subcontracts or other contractual opportunities on projects. Bidders are asked, as part of their submission, to describe any planned use of such businesses in fulfilling this contract.

## Village Bldg. Parking and Drainage Improvements

**2.19** The Bidder shall, *within 10 days after Notice of Award*, at its own expense, provide and maintain during the entire performance period of this contract at least the following types and minimum amounts of insurance, in addition to unemployment compensation and workers compensation insurance:

i. Comprehensive General Liability, including Premises and Operations; Contractor's Protective Liability; Products Liability including Completed Operations Coverage; and Contractual Liability for this contract. Limits \$1,000,000 per incident / \$3,000,000 Total Bodily Injury (including death); \$1,000,000 per incident / \$3,000,000 Total Property Damage

ii. Comprehensive Automobile Liability, including all Owned Automobiles, Non-Owned Automobiles and Hired Car Coverage: Limits: \$1,000,000 per incident / \$3,000,000 Total Bodily Injury (including death)

\$1,000,000 per incident / \$3,000,000 Total Property Damage

iii. Employer's Liability for Participants not covered by Workers Compensation Insurance in an amount not less than \$100,000.

Bidder shall not perform any work on this project unless bidder has obtained, and continues to maintain for the duration of such work, such workers' compensation coverage as may be required pursuant to the provisions of Chapter 8 (Code Section 65.2-800 et seq.) of Title 65.2 of the Code of Virginia, 1950, as amended. Bidder shall not allow any subcontractor to perform any work on a County construction project unless the subcontractor has obtained, and continues to maintain for the duration of such work, such worker's compensation coverage as may be required pursuant to the provisions of Chapter 8 (Code Section 65.2-800 et seq.) of Title 65.2 of the Code of Virginia, 1950, as amended. Bidder shall include the provisions of this paragraph within each of its subcontracts, so as to bind each subcontractor.

A Certificate of Insurance shall be submitted within 10 days after Notice of Award and included as a part of the resulting contract by reference.

The Contractor shall furnish to the County a binder adding the County as an additional insured on all policies except those pertaining to Workers Compensation and including the following language: "The above described policies shall not be canceled, modified, or amended or coverage reduced without the issuing company providing 30 days advance written notice to the County of Powhatan."

Should insurance coverage be changed or cancelled, regardless of the reason, the Contractor shall furnish evidence of new coverage and submit a new and valid binder evidencing the required insurance. Failure to deliver a new and valid binder will result in suspension of all payments until the new binder is furnished.

All insurance required by this agreement shall be and remain in full force and effect for the life of the contract.

No contract shall be binding upon the County until the all insurance requirements and policies, required herein have been filed with the County (if requested) and all have been approved as to form and sufficiency by the County Attorney.

**2.20** The Contractor agrees to save, defend, hold harmless, and indemnify the County, and all of its officers, departments, agencies, agents, and employees (collectively the "County") from and against any and all claims, losses, damages, injuries, actions, fines, penalties, costs (including court costs and attorney's fees), charges, liability, or exposure, however caused, resulting from, arising out of, or in any way connected with the Contractor 's negligent or wrongful acts, errors or omissions in the performance or nonperformance of its work called for by the Contract Documents, including such acts, errors or omissions of Contractor's employees, servants or agents.

**2.21 BID BOND**

**Each bid submitted in response to this IFB shall be accompanied by a bid bond in an amount equal to five percent (5%) of the total monetary amount of the bid.**

i. The bid guarantee may be either (i) a certified or cashier's check made payable to "The County of Powhatan, Virginia," or (ii) a bid bond made payable to "The County of Powhatan, Virginia." The bid guarantee shall be for the purpose of promising and guaranteeing that the bidder will not withdraw its bid for a period of 30 days following bid opening. The proceeds of the bid guarantee shall be and remain the sole property of the County, as liquidated damages, should the successful bidder fail to execute a contract, proof of all required insurance and endorsements and all required payment and performance bonds within five days of the County's issuance of notice of award of the contract.

ii. The bid guarantees of all except the three lowest bidders will be returned within three (3) days after bid opening. The remaining bid guarantees will be returned as soon as the County has received a fully-executed contract, or within 75 days after bid opening, whichever occurs first.

iii. An attorney-in-fact who executes a bid guarantee must file with the guarantee a certified and dated copy of the written power of attorney which authorizes them to act. Such power of attorney shall be submitted and attached to the Bid Bond.

iv. In lieu of a bid bond, a bidder may furnish a cashier's check or cash escrow in the face amount required for the bid bond. If approved by the County attorney, a bidder may furnish a personal bond, property bond or bank or savings and loan association's letter of credit on certain designated funds in the face amount required for the bid bond. Approval shall be granted only upon a determination by the County attorney that the alternative form of security proffered affords protection to the County equivalent to a corporate surety's bond.

**2.22 PERFORMANCE AND PAYMENT BOND**

The successful bidder shall execute a performance and payment bond for not less than 100% of the amount of the contract award and shall furnish same to the Purchasing Agent within 10 days of notice of award contract. Such bond shall guarantee faithful performance by the contractor and indemnify the County from all claims from subcontractors for any amount due on account of labor, materials or services furnished. No contract shall be binding upon the County until such bond has been filed with the County and approved by the County Attorney.

**2.23** The Virginia Uniform Statewide Building Code applies to the Work and is administered by the local Building Official. The Building Permit will be obtained by the General Contractor and paid for by the Contractor. All other permits, local license fees, business fees, taxes or similar assessments shall be obtained and paid for by the Contractor.

**2.24** The bidder shall include with bid a proposed schedule for completion or work to be performed.

**2.25** The successful bidder is prohibited from assigning, transferring, conveying, subletting or otherwise disposing of resulting contract or its right, title or interest therein or its power to execute

such contract to any other persons, company or corporation without the previous consent and approval in writing by the County.

**2.26** Each bidder must carefully examine all documents and plans (including, without limitation, specifications and drawings, and the form contract) made available by the County for inspection by potential bidders, prior to submission of a bid. In addition, each bidder, prior to submission of a bid, must use whatever means necessary to satisfy itself of the extent and requirements of the Project and of the actual conditions under which the Project is to be performed. Comprehensive or detailed information of existing Site conditions may not be included in the Contract Documents; therefore, prior to bid submission, the Contractor must visit and examine the Site. Submission of a bid shall be deemed evidence that the bidder has visited the Site of the Project, that the bidder has familiarized itself with existing conditions at the Site (including without limitation, areas for storage of materials and equipment), and that the bidder is satisfied that it can construct the Project, in accordance with the Construction Documents, for the price(s) specified within its bid. Contractors will not be allowed or provided additional compensation as relief from the consequences of an error in their bids, including, without limitation errors which are attributable to conditions or factors which could have been identified by thorough examination of the Site and the Contract documents (including, without limitation, boring reports and subsurface condition reports, if available) prior to submission of a bid.

**2.27** A pre-construction conference will be held during the period after the award of the Contract and before the mobilization phase of the project. The Project Manager will discuss requirements of such matters as project coordination and review, construction schedules, progress schedules, and reports, Contract Change Orders, Insurance, Safety, Accommodation to Traffic, and other items pertinent to the Project. All parties to this conference should be prepared to discuss any problems anticipated with the execution of the work under this Contract. A summary of the conference shall be prepared by the Engineer and distributed to the County and the Contractor. The Contractor shall acknowledge receipt of the Engineer's summary in writing to the County. The Contractor shall submit for approval plans for a field office, if applicable, storage yard including any fencing or protective barriers, and staging area including any gravel surfaced area.

**2.28** More than one bid from an individual, firm, partnership, corporation, affiliate, or association under the same or different names, received in response to a single solicitation, will be rejected. Reasonable grounds for believing that a bidder is interested in more than one bid or proposal for a solicitation both as a bidder and as a subcontractor for another bidder will result in rejection of all bids or proposals in which the bidder is interested. However, a firm acting only as a subcontractor may be included as a subcontractor for two or more bidders submitting a bid or proposal for the work.

**2.29** A bidder for a construction contract, other than a contract for construction or maintenance of public highways, may withdraw a bid from consideration after bid opening if the price bid was substantially lower than the other bids due solely to a mistake therein, provided the bid was submitted in good faith and the mistake was a clerical mistake as opposed to a judgmental mistake, and was actually due to an unintentional arithmetic error or an unintentional omission of a quantity of work, labor or material made directly in the compilation of the bid, if the unintentional arithmetic error or unintentional omission clearly can be shown by objective evidence drawn from inspection of original work papers, documents and materials used in the preparation of the bid sought to be withdrawn.

a) If a bid contains both clerical and judgment mistakes, a bidder may withdraw his bid from consideration if the price bid would have been substantially lower than the other bids due solely

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to the clerical mistake that was an unintentional arithmetic error or an unintentional omission of a quantity of work, labor or material made directly in the compilation of a bid which shall be clearly shown by objective evidence drawn from inspection of original work papers, documents and materials used in the preparation of the bid sought to be withdrawn.

b) The bidder shall give notice in writing to the purchasing agent of a claim of right to withdraw a bid, within two (2) business days after the conclusion of the opening of the bids and shall submit original work papers with such notice.

c) If the purchasing agent denies the withdrawal of the bid, he shall notify the bidder in writing, stating the reasons for the decision; in that event, the purchasing agent, or his designee, shall award the contract to the bidder at the bid price, provided such bidder is responsible and responsive.

**2.30** The agreement to be entered into by the parties shall consist of the contract agreement, which may be a purchase order, the bid submitted by the successful bidder, all supplemental, general and/or special conditions, all specifications and any attachments to the original request for bids submitted to be prospective bidders, and drawings including all modifications thereof, all of which shall be referred to collectively as the Contract Documents.

**2.31** This Agreement shall be governed by and construed in accordance with the laws of the Commonwealth of Virginia and of the United States of America. All litigation arising out of this Agreement shall be commenced and prosecuted in the Circuit Court of the County of Powhatan, Virginia. The contractor shall comply with applicable federal, state and local laws and regulations.

**2.32** When the owner is required by the Contract Documents to give written notice, demand or other communication to the Contractor, the Owner's notice, demand or communication shall be deemed to be given when it is deposited in the United States mail, postage pre-paid, and addressed to the address of the Contractor stated in the Agreement or at such other address as the Contractor designates in writing to the Owner.

**2.33** The Contractor certifies that it does not, and will not during the performance of the Contract, employ illegal alien workers or otherwise violate the provisions of the federal Immigration Reform and Control Act of 1986.

**2.34** The Contract is governed by the applicable provisions of the Powhatan County Purchasing Procedures, as amended.

**2.35** Except as provided herein, or by applicable law, all proceedings, records, contracts and other public records relating to procurement transactions shall be open to the inspection of any citizen, or any interested person in accordance with the Virginia Freedom of Information Act and the Virginia Public Procurement Act.

a) Cost estimates relating to a proposed procurement transaction, prepared by or for the County, shall not be open to public inspection.

b) Any competitive sealed bidding bidder, upon request, shall be afforded the opportunity to inspect bid records within a reasonable time after the opening of all bids but prior to award, except in the event that the County decides not to accept any of the bids and to reopen the contract, postpone the contract or not contract at all. Otherwise, competitive sealed bid records shall be open to public inspection only after award of the contract.

c) Any inspection of procurement transaction records shall be subject to reasonable restrictions to ensure the security and integrity of the records.

d) Trade secrets and proprietary information submitted by a bidder in connection with a procurement transaction shall not be subject to public disclosure; however, the bidder must invoke the protections of Section 2.2-4342 of the Virginia Code IMMEDIATELY UPON SUBMISSION of the data or other materials, and must specifically designate the data or other materials to be

protected and state the reasons why protection is necessary. The County will not be liable for any damages sustained by a bidder who fails to follow the procedures designated by Virginia Freedom of Information Act, the Virginia Public Procurement Act, and the Powhatan County Code as being prerequisite to protection of trade secrets or proprietary information.

**2.36** It is expressly agreed that nothing under the Contract shall be subject to arbitration, and any references to arbitration are expressly deleted from the Contract Documents.

**2.37** Any bidder organized or authorized to transact business in the Commonwealth pursuant to Title 13.1 or Title 50 of the Code of Virginia MUST include in its bid or proposal the identification number issued to it by the State Corporation Commission. Any bidder not required to be authorized to transact business in the Commonwealth as a foreign business entity under Title 13.1 or Title 50 of the Code of Virginia or as otherwise required by law MUST include in its bid or proposal a statement describing why the bidder is not required to be so authorized. No bidder failing to provide the required information shall receive an award unless a waiver of this requirement and the administrative policies and procedures established to implement Section 2.2-4311.2 of the Code of Virginia is granted by the County Administrator. The County may void any contract with a business entity if the business entity fails to remain in compliance with the provisions of Section 2.2-4311.2 of the Code of Virginia

**2.38** Bidders are required under the Virginia Contractors' licensing laws (Section 54.1-1112, Virginia Code) to show evidence of contractor's license.

**Bids without such notation shall remain unopened.**

**Bidder shall place on the outside of the envelope containing the bid the following:**

License No. \_\_\_\_\_ Class \_\_\_\_\_ Expires \_\_\_\_\_

### **SECTION III GENERAL TERMS AND CONDITIONS**

#### **GENERAL TERMS AND CONDITIONS FOR CONSTRUCTION CONTRACTS**

#### **DEFINITIONS AND INSTRUCTIONS FOR INTERPRETATION**

When one of the following words, terms or phrases is used in this contract, it shall be interpreted or construed first, as defined below; second, according to its generally-accepted meaning in the construction industry; and third, according to its common and customary usage.

**As-built drawings:** Drawings submitted by the Contractor or subcontractor at any tier and at close out showing the construction of a particular structure or work as actually completed under the contract. "As-built drawings" shall be synonymous with "Record drawings."

**Builder:** The General Contractor to whom a Contract [NOT DEFINED] for Construction has been awarded by the County

**Change Order:** A document issued on or after the effective date of the Contract for Construction, which is agreed to by the Contractor and approved by the County, and which authorizes an addition, deletion or revision in the Work, including any adjustment in the Contract Price and/or the Contract Completion Date. A change order, once signed by all parties required to sign it, is incorporated into and becomes a part of the Contract.

**Change Directive:** A construction change directive is a written order signed by the County, directing a change in the work prior to agreement on adjustment (if any) in the contract price or contract time, or both.

**County:** The County of Powhatan, Virginia, including all its officers, officials, agencies, departments, divisions, and all of the employees and agents thereof.

**Claim:** A demand or assertion by one party seeking, as a matter of right, an adjustment or interpretation of Contract terms, payment of money, extension of time or other relief with respect to the terms of the Contract for Construction. The term "claim" also includes other disputes and matters in question between the County and the General Contractor arising out of or relating to the Contract. Claims must be initiated by written notice. The responsibility to substantiate claims rests with the party making the claim.

**Construction:** The term used to include new construction, reconstruction, renovation, restoration, major repair, demolition and all similar work upon buildings and ancillary facilities, including any draining, dredging, excavation, grading or similar work upon real property.

**Construction Documents:** Plans, specifications, approved change orders, revisions, and addenda, and other information approved by the County, which set forth in detail the Work to be performed for this Construction Project.

**Contract Documents:** The Contract entered into by the parties shall consist of this Contract, the original Invitation for Bids (IFB) and all specifications, drawings and addenda thereto, the bid submitted by the General Contractor, other documents identified in the Contract, modifications issued subsequent to execution of the Contract and the Project manual, which shall be referred to collectively as the Contract Documents.

**Contract Price:** The dollar amount for which the Builder agrees to perform the Work which is the subject of the Contract For Construction.

**Contract Specifications:** The written requirements for materials, equipment, systems, standards and workmanship for the Work and for performance of related services.

**Contractor.** An alternative way of referring to the General Contractor, the person with whom the County has entered into the Contract for Construction.

**Defective:** An adjective which, when modifying the word "work" refers to work that is unsatisfactory, faulty, deficient, does not conform to the Contract Documents, or which does not meet the requirements of inspections, standards, tests or approvals required by the Contract Documents.

**Drawing:** A page or sheet of the Construction Plans which presents a graphic representation, usually drawn to scale, showing the technical information, design, location and dimensions of various elements of the Work. The graphic representations include, but are not limited to: plan views, elevations, transverse and longitudinal sections, large and small scale sections and details, isometrics, diagrams, schedules, tables and/or pictures.

**Field Order:** A written order issued by the County's inspector/Representative which clarifies or explains the plans or specifications, or any portion or detail thereof, without changing the design, the Contract Price, the time for Substantial Completion or the date of Final Completion.

**Final Completion:** The stage of construction when the Work has been completed in accordance with the Contract for Construction and the County has received all documents and items necessary for closeout of the Work.

**General Contractor:** Also referred to within the Contract for Construction as the "Contractor," this is the person with whom the County has entered into the Contract for Construction.

**Hazardous Substances:** The term "Hazardous Substance" shall have the same meaning and definition as set forth in the Comprehensive Environmental Response Compensation and Liability Act as amended, 42 USC § 6901 et seq., and regulations promulgated thereunder (collectively "CERCLA") and any corresponding state or local law or regulation, and shall also include: (a) any Pollutant or Contaminant as those terms are defined in CERCLA; (b) any Solid Waste or Hazardous Constituent as those terms are defined by, or are otherwise identified by, the Resource Conservation and Recovery Act as amended, 42 USC § 6901 et seq., and regulations promulgated thereunder (collectively "RCRA") and any corresponding state or local law or regulation; (c) crude oil, petroleum and fractions of distillates thereof; (d) any other material, substance or chemical defined, characterized or regulated as toxic or hazardous under any applicable law, regulation, ordinance, directive or ruling; and (e) any infectious or medical waste as defined by any applicable federal or state laws or regulations.

**Occupancy, beneficial:** The condition after Substantial Completion but prior to Final Completion, at which time the Project is sufficiently complete and systems operational such that the County could, after obtaining necessary approvals and certificates, occupy and utilize the space for its intended use. Guarantees and warranties applicable to that portion of the Work begin on the date the County accepts the Project for such Beneficial Occupancy, unless otherwise specified in the Supplemental General Conditions or by separate agreement.

**Occupancy, partial:** Partial occupancy or use occurs when the County occupies or uses any completed or partially completed portion of the work, at a stage when such portion is designated by a separate agreement between the County and the General Contractor, in accordance with Section 12.2 of these General Terms and Conditions.

**Person:** The term "person" includes any individual, corporation, partnership, association, company, business, trust, joint venture or other legal entity.

**Plans:** The term used to describe the group or set of project-specific drawings which are included in the Contract Documents.

**Product Data:** Product Data are illustrations, standard schedules, performance charts, instructions, brochures, diagrams, and other information furnished by the General Contractor, or a subcontractor, manufacturer, supplier or distributor, to illustrate materials or equipment for some portion of the Work.

**Professional:** An individual or entity, including but not limited to an architect, engineer, geotechnical engineer or consultant, land surveyor, landscape architect, or other professional engaged directly by the County to provide design, engineering, testing or other services in relation to the Project.

**Project:** The planned construction undertaking which is the subject of this Contract for Construction.

**Project Manual:** A volume assembled for the Work, which may include the bidding requirements, specifications, sample forms, documents, etc.

**Related Party:** Any affiliated entities of the County of Powhatan (including, without limitation, agencies, departments, divisions or commissions of the County of Powhatan) and their respective officers, officials, office holders, and employees.

**Samples:** Samples are physical examples, which illustrate materials, equipment or workmanship and establish standards by which the Work will be judged.

**Shop Drawings:** Shop Drawings are drawings, diagrams, schedules and other data specially prepared for the Work by the General Contractor or a subcontractor, manufacturer, supplier or distributor, to illustrate some portion of the Work.

**Site:** The geographical location where the Project is to be constructed, and where the Work by the General Contractor is to be performed.

**Specifications:** That part of the Project Manual/Contract Documents containing the written administrative requirements and the technical descriptions of materials, equipment, construction systems, standards, and workmanship which describe the proposed Work in detail and provide information for a Building Official to determine code compliance and for the Contractor to perform the Work.

**Subcontractor:** A person having a direct contract with the General Contractor, or with any other subcontractor, for the performance of the Work. The term "subcontractor" includes any person who provides on-site labor but does not include any person who only furnishes or supplies materials for the Project.

**Submittals:** Documents prepared by the General Contractor or a subcontractor, manufacturer, supplier or distributor, consisting of: Shop, fabrication, setting or installation drawings, diagrams, illustrations, schedules, samples, brochures, performance charts, instructions, diagrams, or other, similar data or items. The purpose of submittals is to demonstrate conformance of some portion of the Work with the requirements of the Contract Documents.

**Substantial Completion:** The stage in the progress of the Work when the Work, or designated portion thereof, is sufficiently complete in accordance with the Contract Documents so that the County can occupy or use the Work for its intended purpose(s).

**Supplier:** A manufacturer, fabricator, distributor or vendor who provides material(s) for the Project but who does not provide on-site labor.

**Total Project Construction Cost:** The total cost to the County to complete construction of the Project, including, without limitation, the Work, the cost of utilities, the cost of fees for permits and licenses required to be obtained by the General Contractor, and modifications necessitated by local conditions.

**Work:** The term "Work" means the construction and services required by the Contract Documents, whether completed or partially completed, and includes all other labor, materials, equipment and services provided or to be provided by the General Contractor to fulfill the General Contractor's obligations.

**In construing this Construction Contract, the parties hereto agree that the following standards and directives shall apply:**

**Computation of Time:** When the Contract requires any notice to be given, or an act to be done, a certain time before a specified event or deadline, then there must be that time, exclusive of the day for such specified event or deadline, but the day on which the notice is given or an act done shall be counted as part of the time. When the Contract requires any notice to be given, or an act to be done, within a certain time after a specified event or deadline, then that time shall be allowed in addition to the day on which the specified event or deadline occurred. When the last day fixed by this Contract for the commencement of any action, or the giving of any notice, falls on a Saturday, Sunday, legal holiday, or any day on

which the Powhatan County Administrative Offices are closed, then the notice or act may be given on the next day that is not a Saturday, Sunday, legal holiday, or other day on which the Powhatan County Administrative Offices are closed.

**Day:** Unless otherwise specified, the word “*day*” shall be construed to mean a calendar day.

**Headlines.:** The headlines of the several articles, sections and paragraphs of this Contract are intended as mere catchwords to indicate the contents of the articles, sections or paragraphs, and such headlines shall not be deemed or construed as titles of such articles, sections or paragraphs, or as any part thereof, nor, unless otherwise expressly provided by the Contract, shall any headlines be so deemed or construed following any amendment or modification of a particular article, section or paragraph.

**Month:** Unless otherwise expressed, the word “*month*” shall be construed to mean a calendar month.

**Severability:** In the event that any provisions of this Contract, or the application of any requirements stated herein to any person or circumstances, are determined invalid by a court of competent jurisdiction, such judicial determination shall not affect the validity of other provisions or requirements of this Contract which can be given effect without the invalid provisions or applications.

## **ARTICLE 1**

### **THE CONTRACT DOCUMENTS**

**1.1 Minimum Requirements:** Requirements established by the Construction Documents shall be considered as the minimum which will be accepted.

**1.2 County Disclaimer of Warranty:** The County has requested that the Professional(s) prepare documents for the Project, including the plans and specifications for the Project, which are to be complete, accurate, coordinated, and adequate for bidding, negotiating and constructing the Work. However, the County makes no representation or warranty, of any nature whatsoever, to the General Contractor concerning such documents. The General Contractor hereby acknowledges and represents that it has not, does not, and will not rely upon any representations or warranties by the County concerning such documents, as no such representations or warranties have been or are hereby made.

**1.3 Conflicts in Documents:** In the event of any conflict, discrepancy, or inconsistency among any of the documents which make up this Contract for Construction, the following shall control:

(i) As between figures given on plans and scaled measurements, the figures shall govern;

(ii) As between large-scale plans and small-scale plans, the large-scale plans shall govern;

(iii) As between plans and specifications, the requirements of the specifications shall govern;

(iv) As between the General Conditions of the Construction Contract and the plans or specifications, the General Conditions shall govern;

(v) As between the Construction Contract Form and the General Conditions of the Construction Contract, the Contract Form shall govern.

(vi) As between the Supplemental Conditions and any General Conditions or the Contract Form, the Supplemental Conditions shall govern.

**1.4 Shop Drawings and Submittals:** Shop drawings and other submittals from the General Contractor or its subcontractors and suppliers do not constitute a part of this Contract. The

General Contractor shall not perform any Work requiring shop drawings or other submittals unless such shall have been approved in writing by the County representative. All Work requiring approved shop drawings or other submittals shall be done in strict compliance with such approved documents; however, approval by the County shall not be evidence that Work installed or performed pursuant thereto conforms with the requirements of this Contract. The County shall not have any duty to review partial submittals or incomplete submittals. The General Contractor shall maintain a submittal log which shall include, at a minimum, the date of each submittal, the date of any resubmittal, the date of any approval or rejection, and the reason for any approval or rejection. The General Contractor shall have the duty to carefully review, inspect and examine any and all submittals before submission of same to the County. By approving and submitting Shop Drawings, Product Data, Samples and similar submittals, the General Contractor represents that it has determined and verified materials, field measurements and field construction criteria related thereto, or that it will do so, and has checked and coordinated the information contained within such submittals with the requirements of the Work and of the Contract Documents.

**1.5 Contract Changes:** The General Contractor understands and agrees that the Contract for Construction cannot be changed except as expressly provided by the Contract Documents. No act, omission or course of dealing by the parties shall alter the requirement that modifications of this Contract for Construction can be accomplished only by written documents signed by the parties.

**1.6 On-Site Documents.** The General Contractor shall keep an updated copy of this Contract for Construction at the Site. Additionally, the Contractor shall keep copies of all approved shop drawings and other submittals at the Site.

## **ARTICLE 2**

### **GENERAL CONTRACTOR'S REVIEWS AND EVALUATIONS**

**2.1 Sufficiency of Construction Documents:** Prior to submission of its Bid, but in all events prior to signing this Contract for Construction, the General Contractor has received and carefully reviewed and evaluated the Construction Documents and agrees that the Construction Documents are complete, accurate, adequate, consistent, coordinated and sufficient for bidding, negotiating, costing, pricing and construction of the Project.

**2.1.1** The General Contractor acknowledges its continuing duty to review and evaluate the Construction Documents during the performance of its services and shall immediately notify the County about any

(i) problems, conflicts, defects, deficiencies, inconsistencies or omissions it discovers in or among the Construction Documents; and,

(ii) variances it discovers between the Construction Documents and any applicable laws, statutes, building codes, rules and regulations.

**2.1.2** If the General Contractor performs any Work which it knows or should have known involves:

(i) a recognized problem, conflict, defect, deficiency, inconsistency or omission in the Construction Documents; or

(ii) a variance between the Construction Documents and requirements of applicable laws, statutes, building codes, rules and regulations, without notifying the County and prior to

receiving written authorization from the appropriate County Representative to proceed, the General Contractor shall be responsible for the consequences of such performance.

**2.2 Sufficiency of Site Conditions:** Prior to submission of its Bid, but in all events prior to signing this Contract For Construction, the General Contractor certifies that it has:

(i) visited the Site and become familiar with local conditions under which the Project is to be constructed and operated; and,

(ii) reviewed and familiarized itself with the Site survey and any existing structures on the Site, and gathered all other information necessary for a full understanding of its obligations under this Contract.

**2.3** In addition, if the Scope of the Work involves modifications to or remodeling of an existing structure(s) or other man-made feature(s) on the Site, the General Contractor certifies that it has:

(i) reviewed all available as-built and record drawings, plans and specifications; and,

(ii) thoroughly inspected the structure(s) and man-made feature(s) to be modified or remodeled prior to submission of its Bid, but in all events prior to signing this Contract For Construction.

**2.4** Claims against the County or Related Parties resulting from the General Contractor's failure to familiarize itself with the Site or pertinent documents shall be deemed waived by the General Contractor.

**2.5** The General Contractor shall commence performance of its obligations under this Contract for Construction, upon receipt of a written notice to proceed issued by the County.

### **ARTICLE 3**

#### **GENERAL CONTRACTOR'S DUTIES, OBLIGATIONS AND RESPONSIBILITIES**

**3.1 Performance of Work:** The General Contractor shall supervise and complete its obligations under this Contract For Construction, using its best skill and attention. The General Contractor shall furnish management, supervision, coordination, labor and services which

(i) expeditiously, economically and properly complete its scope of the Work;

(ii) comply with the requirements of this Contract For Construction; and,

(iii) are performed in a workmanlike manner and in accordance with the standards currently practiced by persons and entities performing or providing comparable management, supervision, labor and services on projects of similar size, complexity and cost.

**3.1.1** The General Contractor shall not damage, endanger, compromise or destroy any part of the Work or the Site, including by way of example, and without limitation: work being performed by others on the Site, monuments, stakes, bench marks and other survey points, utility services, and existing features, improvements or structures on the Site. Should the General Contractor damage, compromise or destroy any part of the Project or the Site, the General Contractor shall be fully and exclusively responsible for and bear all costs associated therewith.

**3.1.2** All services rendered by the General Contractor shall be performed by or under the immediate supervision of persons possessing expertise in the discipline of the service being rendered.

**3.1.3** The General Contractor shall, in the performance of its obligations under this Contract for Construction, cooperate and communicate with the County and all other persons or

entities working for or with the County, as necessary for satisfactory and timely completion of the Project.

**3.1.4** The General Contractor understands and acknowledges that the Scope of Work referred to in this Contract for Construction may be only part of the Project and that the Project may include the construction of other structures or other construction activities on the same Site. The General Contractor shall conduct all its activities so as not to interfere with the construction of, or other construction activities on the Site.

**3.1.5** The General Contractor shall conduct all its activities so as not to interfere with ongoing business and other activities at the site. The General Contractor shall perform construction services and conduct all activities only in such locations and in such manner as specifically contemplated by the Construction Documents.

**3.1.6** The General Contractor shall obtain all licenses necessary to use any invention, article, appliance, process or technique, of whatever kind, and shall pay all royalties and license fees associated therewith. The General Contractor shall hold the County, its officers, agents and employees, harmless from and against any loss or liability for or on account of the infringement of any patent rights in connection with any invention, process, technique, article or appliance manufactured or used in the performance of this Contract for Construction, including its use by the County; unless such invention, process, technique, article or appliance is specifically named by the County in the specifications or plans as being acceptable for use in carrying out the Work. If, before using any invention, process, technique, article or appliance specifically named in the specifications or plans as acceptable for use in carrying out the Work, the General Contractor has or acquires information that the same is covered by letters of patent, making it necessary to secure the permission of the patentee, or other, for the use of the same, the General Contractor shall promptly advise the County. The County may direct that some other invention, process, technique, article or appliance be used. Should the General Contractor have reason to believe that the invention, process, technique, article or appliance so specified is an infringement of a patent, and fail to inform the County, the General Contractor shall be responsible for any loss or liability due to the infringement.

**3.2 Compliance with Governmental Requirements:**

**3.2.1** The General Contractor shall comply with all applicable laws, statutes, codes, building codes, rules, regulations and lawful orders of all governmental, public and quasi-public authorities and agencies having jurisdiction over the Work, the Project and the Site;

**3.2.2** The General Contractor shall prepare and file documents required to obtain and shall obtain all necessary governmental approvals and permits for construction of the Project, including building permit(s); and,

**3.2.3** The General Contractor shall give all notices required of it by governmental authorities relating to the Work, the Project, or the Site.

**3.2.4** This Construction Contract and all other contracts and subcontracts are subject to the provisions of Articles 3 and 5, Chapter 4, Title 40.1 of the Code of Virginia, relating to labor unions and the "right to work." The General Contractor and its subcontractors, whether residents or nonresidents of the Commonwealth of Virginia, who perform any Work related to the Project, shall comply with all of said provisions.

**3.2.5** By signing this Construction Contract, the General Contractor certifies that it does not and will not during the performance of the Contract violate the provisions of the Federal Immigration Reform and Control Act of 1986, which prohibits employment of illegal aliens.

**3.2.6** The provisions of all rules and regulations governing safety as adopted by the Safety Codes Commission of the Commonwealth of Virginia, as issued by the Department of Labor and Industry under Title 40.1 of the Code of Virginia, shall apply to all Work under this Contract. Inspectors from the Department of Labor and Industry shall be granted access to the Work for inspection without first obtaining a search or administrative warrant.

**3.2.7** The Virginia Uniform Statewide Building Code applies to the Work and is administered by the local Building Official. The Building Permit will be obtained by the General Contractor and paid for by the Contractor. All other permits, local license fees, business fees, taxes or similar assessments shall be obtained and paid for by the Contractor.

**3.2.8** The General Contractor, if not licensed as an asbestos abatement contractor or a roofing/flooring/siding (RFS) contractor in accordance with §54.1-514 of the Code of Virginia, shall have all asbestos-related Work performed by subcontractors who are duly licensed as asbestos contractors or RFS contractors, as appropriate for the Work.

**3.2.9** If the Contract Documents indicate that lead-based paint is present on existing materials, components or surfaces, the General Contractor shall conform to the following: (1) The requirements set forth in 59 Federal Register 45,672 (September 2, 1994) Proposed Rule - *Lead; Requirements for Lead-based Paint Activities (Proposed Rules)* in selecting and performing the means, methods and procedures for performing the Work. When the Final Rule, to be codified at 40 CFR 745, supersedes the Proposed Rule, the General Contractor shall be responsible for conforming to the Final Rule, as of the effective date set forth therein; (2) The requirements for employee protection contained in 29 CFR Part 1926, Subpart D, and the requirements for record-keeping contained in 29 CFR Part 1910; and (3) The Virginia Department of Labor and Industry's Emergency Regulation published in the May 27, 1996 Virginia Register, requiring, among other things, that a permit be issued to the lead abatement contractor, or any subsequent regulation issued by DLI.

**3.2.10** If the General Contractor violates laws or regulations that govern the Project, the General Contractor shall indemnify and hold the County harmless from and against any fines and/or penalties that result from such violation. To the extent that such violation is the result of negligence or other actionable conduct of the General Contractor, the General Contractor shall indemnify and hold the County harmless against any third party claims, suits, awards, actions, causes of action or judgments, including but not limited to attorney's fees and costs incurred thereunder, that result from such violation.

**3.3 Safety:** Safety shall be a prime concern of the General Contractor at all times. The General Contractor shall be solely responsible for and have control over the means, methods, techniques, sequences and procedures for coordinating and performing construction, including Site safety and safety precautions and programs.

**3.4 Concurrent Records:** For any period in which it is engaged in activities on the Site, the General Contractor shall, concurrently with its performance, maintain detailed daily records of activities on the Site. Upon request, the County shall be provided copies of such records.

**3.5 As-Built Drawings:** The General Contractor shall maintain at the Site at least one copy of all drawings, specifications, addenda, approved shop drawings, change orders, submittals, and other modifications, in good order and accurately marked, depicting all changes as they

occur during construction. The as-built drawings shall be available at all times to the County, and the County's consultants, including quality control and testing agency personnel. The drawings shall be neatly and clearly marked in color during construction to record all variations made during construction, and the General Contractor shall include such supplementary notes and details necessary to clearly and accurately represent as-built construction.

**3.5.1** This clause shall be included in all subcontracts. It shall be the responsibility of the Contractor to ensure that all as-built drawings prepared by subcontractors are complete, accurate and submitted.

**3.6 Quality Control And Testing:** Unless otherwise provided in this Contract For Construction, the County shall select the quality control and testing agencies and pay for the cost of specified measures and tests required by the Construction Documents. The General Contractor shall be responsible for the coordination of all tests and inspections and shall arrange for tests and inspections to be conducted as necessary to avoid any interference with the progress of Work. No claims for extension of time or extra costs will be allowed on account of any testing, retesting, inspection, re-inspection, or rejection of Work when defective or deficient Work is found.

**3.7 Incident Reporting:** The General Contractor shall immediately notify the County both orally and in writing, of the nature and details of all incidents which may adversely affect the quality or progress of the Work including, but not limited to, union jurisdictional disputes, accidents, delays, damages to Work and other significant occurrences.

**3.8 Hazardous Substances Notice:** The General Contractor shall immediately notify the County, both orally and in writing, of the presence and location of any physical evidence of, or information regarding, environmental contamination on the Site (including but not limited to Hazardous Substances and petroleum releases) of which it becomes, or reasonably should have become, aware. If the General Contractor encounters environmental contamination (including but not limited to Hazardous Substances and petroleum releases), the General Contractor shall:

- (i) immediately stop performance of Work or that portion of the Work affected by or affecting such contamination;
- (ii) secure the contaminated area against intrusion;
- (iii) not disturb or remove the contamination;
- (iv) not proceed, or allow any subcontractor or supplier to proceed, with any Work or other activities in the area affected by such contamination until directed to do so by the County; and,
- (v) take any other steps necessary to protect life and health.

**3.9 County's Use of and Access to the Site:** The General Contractor shall perform the Work so as not to interrupt any ongoing business operations or other construction activities on the Site.

**3.9.1** The General Contractor shall provide the County, Related Parties, and other consultants, trade contractors, subcontractors and suppliers, access to the Site for performance of their activities, and shall connect and coordinate its construction activities and operations with those of others. The General Contractor understands and acknowledges that the County or its Related Parties may need access to or use of certain areas of the Site on which Work is being or has been performed, prior to the General Contractor's

achievement of Substantial Completion. The General Contractor agrees that no such occupancy, access or use shall constitute the County's acceptance of any Work.

**3.9.2** Except as specifically contemplated by the Construction Documents, the General Contractor shall not enter any occupied area of the Site or Structure unless first approved and scheduled by the County.

**3.10 Site Control and Cleanup:** During construction, the General Contractor shall maintain good order on the Site. The General Contractor shall maintain the Site in a reasonably clean condition during performance of the Work and shall periodically remove from the Site all construction debris. Upon completion of the Work, the General Contractor shall remove from the Site all construction materials and waste, rubbish, other debris, equipment, sheds and similar items related to, produced by or required for its scope of the Work and shall thoroughly clean the Site of all debris, trash, excess materials and equipment. No final payment will be made to the General Contractor until satisfactory final clean-up is accomplished and inspection is made by the County accompanied by the General Contractor. If the County must engage in clean-up activities at any time during the construction period, the full cost of the clean-up shall be deducted from moneys due the General Contractor, and the General Contractor shall pay any deficiency amount to County.

#### **ARTICLE 4**

##### **GENERAL CONTRACTOR'S PERSONNEL, SUBCONTRACTORS, AND SUPPLIERS**

**4.1 Project Staffing:** The General Contractor shall staff the Project with qualified individuals and entities responsible for its obligations and performance hereunder.

**4.1.1** The General Contractor shall, in writing, on or before the Commencement Date specified in the Notice to Proceed issued by the County, name a Superintendent (the "Builder's Representative") to serve as its primary communication contact with the County and the County's Representative and who shall:

- (i) shall be in attendance at the Project site during the performance of the Work
- (ii) shall represent the General Contractor

**4.1.2** The Contractor shall employ a competent Superintendent and any necessary assistants to ensure supervisory attendance at the Project site during the progress of the Work. The Superintendent shall have full authority to represent the Contractor and all communications given to the Superintendent shall be as binding as if given to the Contractor.

**4.1.3** It is understood that such Superintendent shall be acceptable to the Owner and shall be one who will be continued in that capacity for duration of this project, unless he ceases to be on the Contractor's payroll. The Superintendent shall not be employed on any other project during the performance of this Contract.

**4.1.4** The General Contractor shall employ persons skilled in the tasks assigned to them and shall contract with subcontractors and suppliers skilled in the tasks assigned to them and capable of working harmoniously with all trades, crafts and other individuals on the Project. The General Contractor shall use its best efforts to minimize the likelihood of any strike, work stoppage or other labor disturbance.

**4.1.5** The General Contractor shall immediately remove from the Site, for the duration of the Project, any personnel, including personnel of any subcontractor, making an inappropriate racial, sexual or ethnic comment, statement or gesture toward any other individual.

**4.1.6** The General Contractor shall immediately remove from the Site, for the duration of the Project, any personnel, including personnel of any subcontractor, who is incompetent or careless.

**4.1.7** During the performance of this Construction Contract, the General Contractor shall not discriminate against any employee or applicant for employment because of race, religion, color, sex, national origin, age, disability or any other basis prohibited by law relating to discrimination in employment, except where there is a bona fide occupational qualification reasonably necessary to the normal operation of the contractor. The General Contractor shall be required to post in conspicuous places, available to employees and applicants for employment, notices setting forth the provisions of this nondiscrimination clause. Also, the General Contractor, in all solicitations or advertisements for employees placed by or on behalf of the contractor, shall be required to state that it is an equal opportunity employer. The General Contractor shall be required to include the provisions of this paragraph in every subcontract or purchase order of over \$10,000, so that the provisions will be binding upon each subcontractor or vendor.

**4.1.8** During the performance of this contract the contractor shall be required:

(i) to provide a drug-free workplace for the contractor's employees;

(ii) to post in conspicuous places, available to employees and applicants for employment, a statement notifying employees that the unlawful manufacture, sale, distribution, dispensation, possession, or use of a controlled substance or marijuana is prohibited in the contractor's workplace and specifying the actions that will be taken against employees for violations of such prohibition; and

(iii) to state in all solicitations or advertisements for employees placed by or on behalf of the contractor that the contractor maintains a drug-free workplace. For the purposes of this paragraph, "drug-free workplace" means the Site for the performance of services or the provision of goods in connection with the specific contract resulting from this solicitation at which site the contractor's employees are prohibited from engaging in the unlawful manufacture, sale distribution, dispensation, possession or use of any controlled substance or marijuana during the performance of the Contract. The General Contractor shall include the provisions of this paragraph in every subcontract, so that the provisions will be binding upon each subcontractor.

**4.1.9** The General Contractor shall not perform any construction work unless he has obtained, and continues to maintain for the duration of such work, such workers' compensation coverage as may be required pursuant to the provisions of Chapter 8 (§65.2-800 et seq.) of Title 65.2 of the Code of Virginia, 1950, as amended. Contractor shall not allow any subcontractor to perform any work on a County construction project unless the subcontractor has obtained, and continues to maintain for the duration of such work, such worker's compensation coverage as may be required pursuant to the provisions of Chapter 8 (§65.2-800 et seq.) of Title 65.2 of the Code of Virginia, 1950, as amended. Contractor shall include the provisions of this paragraph within each of its subcontracts, so as to bind each subcontractor.

**4.2 Subcontractor / Supplier Contracts:** The General Contractor shall enter into written contracts with its subcontractors and suppliers, if any, and those written contracts shall be consistent with this Contract for Construction. It is the intent of the County and the General Contractor that the obligations of the General Contractor's subcontractors and suppliers, if

any, inure to the benefit of the County and the General Contractor, and that the County be a third-party beneficiary of the General Contractor's agreements with its subcontractors and suppliers.

**4.2.1** The General Contractor shall, within 15 days after signing the Contract for Construction, notify the County in writing of the names of all subcontractors proposed for the principal parts of the Work, and of such others as the County may direct. Where the specifications establish qualifications or criteria for subcontractors, manufacturers or persons performing Work on the Project, the General Contractor shall be responsible for ascertaining that those proposed meet the criteria or qualifications. The General Contractor shall not employ or utilize any subcontractor that the County may, within a reasonable time, object to as unsuitable. Neither the County nor the County Representative shall direct the General Contractor to contract with any particular subcontractor unless provided in the specifications or Invitation for Bids.

(i) The General Contractor shall not change any subcontractor previously approved unless approved by the County prior to the change becoming effective.

**4.2.2** The General Contractor shall make available to each subcontractor and supplier, if any, prior to the execution of written contracts with any of them, a copy of the pertinent portions of this Contract For Construction, including those portions of the Construction Documents to which the subcontractor or supplier will be bound, and shall require that each subcontractor and supplier shall similarly make copies of applicable parts of such documents available to its respective subcontractors and suppliers.

**4.2.3** The General Contractor shall engage each of its subcontractors and suppliers with written contracts which preserve and protect the rights of the County and include the acknowledgment and agreement of each subcontractor or supplier that the County is a third-party beneficiary of the contract. The General Contractor's agreements with its subcontractors and suppliers shall require that in the event of default under, or termination of, this Contract for Construction, and upon request of the County, the General Contractor's subcontractors and suppliers will perform services for the County.

**4.2.4** The General Contractor shall include in its agreements with its subcontractors and supplier(s) a provision which contains the acknowledgment and agreement of the subcontractor or supplier that it has received and reviewed the applicable terms, conditions and requirements of this Contract For Construction that are included by reference in its written contract with the General Contractor, and that it will abide by those terms, conditions and requirements.

**4.2.5** The County may select a particular subcontractor for a certain part of the Work and designate on the Invitation for Bids that the subcontractor shall be used for the part of the Work indicated and that the subcontractor has agreed to perform the Work for the subcontract amount stipulated on the bid form. The General Contractor shall include the stipulated amount, plus his Contractor markups, in the bid. In such case, the General Contractor shall be responsible for that subcontractor and its work, and the subcontractor shall be responsible to the General Contractor for its work, just as if the General Contractor had selected the subcontractor.

**4.3** The General Contractor shall be fully responsible to the County for all acts and omissions of his agents and employees and all succeeding tiers of subcontractors and suppliers performing or furnishing any of the Work. Nothing in the Contract Documents shall create

any contractual relationship between the County and any subcontractor, supplier or other person, nor shall it create any obligation on the part of the County to pay for or to see to the payment of any money or monies due to any subcontractor, supplier or other person except as may otherwise be required by law.

**4.4** The General Contractor shall be fully responsible for its invitees to and at the Site, and for those of its subcontractors, suppliers and their employees, including any acts or omissions of any such invitee.

**4.5** The General Contractor agrees that it alone is responsible for all dealings with its subcontractors and suppliers, and their subcontractors, employees and invitees, including, but not limited to: the subcontractors' or suppliers' claims, demands, actions, disputes and similar matters, unless specifically provided otherwise by this Contract or by statute.

**4.6 Resolution Of Trade Disputes:** The General Contractor shall promptly resolve claims, complaints, labor disputes and disputes over assignment of work tasks by and among its subcontractors and suppliers.

## **ARTICLE 5**

### **GOODS, PRODUCTS AND MATERIALS**

**5.1 Quality of Materials:** The General Contractor shall furnish goods, products, materials, equipment and systems which:

(i) comply with the requirements of this Contract For Construction;

(ii) conform to applicable specifications, descriptions, instructions, drawings, data and samples;

(iii) are new and standard to the manufacturer(unless otherwise specified or permitted) and without damage;

(iv) are of quality, strength, durability, capacity or appearance equal to or higher than that required by the Construction Documents;

(v) are merchantable;

(vi) are free from defects; and,

(vii) beyond and in addition to those required by manufacturers' or suppliers' specifications where such additional items are required by the Construction Documents.

**5.2 Installation And Use Of Materials:** All goods, products, materials, equipment and systems named or described in the Construction Documents, and all others furnished as equal thereto shall, unless specifically stated otherwise, be furnished, used, installed, employed and protected in strict compliance with the specifications, recommendations and instructions of the manufacturer or supplier, unless such specifications, recommendations or instructions deviate from accepted construction practices, or the Construction Documents, in which case the General Contractor shall so inform the County and the County shall proceed as directed by that Professional, unless otherwise directed by the County. The General Contractor shall coordinate and interrelate all trade contracts and subcontracts, to ensure compatibility of goods, products, materials, equipment and systems required by the Construction, and to ensure the validity of all warranties and guarantees.

**5.3 Unsuitable Materials:** With respect to goods, products, materials, equipment or systems which the General Contractor knows or should have known are unsuitable or unavailable at the time of Bid submission, no claim with respect to the unsuitability or unavailability of such goods, products, materials, equipment or systems will be entertained unless such a claim,

stating proposed alternatives, was made in writing and submitted with the original Bid. Approval by the County of substitute goods, products, materials, equipment or systems does not mean or imply final acceptance by the County and that Professional, should such items be defective or not as previously represented. Should the General Contractor furnish any approved goods, products, materials, equipment or systems different from or in addition to those required by the Construction Documents, which require supplemental materials or installation procedures different from or in addition to those required for specified items, the General Contractor shall provide such goods, products, materials, equipment or systems at no increase in the Construction Contract Price.

**5.4 Security For Work In Progress:** The General Contractor shall provide its own security for its Work in progress and for the goods, products, materials, equipment, systems, construction machinery, tools, devices and other items required, used or to be used for its scope of the Work.

## **ARTICLE 6**

### **DOCUMENTS AND INFORMATION**

**6.1 Information from County:** The County shall provide the General Contractor with information reasonably necessary to assist the General Contractor in performing its services including, if applicable:

- (i) the Site legal description and any required survey;
- (ii) all written and tangible material in its possession concerning conditions below ground at the Site;
- (iii) if the Project involves an existing structure, all available drawings, plans, specifications and structure system information with respect to such structure; and,
- (iv) the County's pertinent Project dates and key milestone dates.

**6.2 Resolution of Questions:** The General Contractor shall resolve all questions concerning the Construction Documents with the Professional who has prepared the documents.

**6.3 Processing of Documents:** When requested to do so by the County, the General Contractor shall process documents, and provide other reasonably required drawings, services and certifications, necessary to enable the County to:

- (i) obtain financing or insurance for the Project;
- (ii) obtain approvals, permits and Certificates of Occupancy for the Project, which approvals are not otherwise required to be obtained by General Contractor; and,
- (iii) represent that the Work complies with requirements of governmental agencies having jurisdiction over the Project.

**6.4 Sufficiency of County Information:** The furnishing of information by the County to the General Contractor shall not relieve the General Contractor of its responsibility to evaluate information and documents provided by the County. The General Contractor shall timely notify the County in writing of any additional information needed or services required from the County in order for the General Contractor to perform the Work.

## **ARTICLE 7**

### **SUBMITTALS**

**7.1 Submittal Schedule:** Within a reasonable time, but no later than fifteen (15) days after execution of the Contract for Construction, the General Contractor shall timely prepare and

transmit to the designated County Representative a schedule for provision of all anticipated shop drawings and other submittals. The schedule shall:

- (i) include submittals required by the specifications;
- (ii) be in a format acceptable to the Representative; and,
- (iii) set forth specific dates for submission of the listed submittals. The General Contractor shall review and approve all submittals prior to submission to the County.

**7.2 Processing Of Submittals:** The General Contractor shall in timely fashion review, approve if appropriate, and forward shop drawings and other submittals to the County for review and approval along with such detail and information as the County requires. No part of the Work dealt with by a submittal shall be fabricated or performed by the General Contractor, except at his own risk, until such approval has been given.

**7.2.1** The County Representative is responsible to the County, but not to the General Contractor, to verify that the submittals conform to the design concept and functional requirements of the plans and specifications, that the detailed design portrayed in shop drawings and proposed equipment and materials shown in submittals are of the quality specified and will function properly, and that the submittals comply with the Contract For Construction.

**7.2.2** The General Contractor shall perform all Work in accordance with approved submittals. Approval of the General Contractor's submittals by the County shall not relieve the General Contractor from responsibility for errors or omissions in Shop Drawings, Product Data, Samples or similar submittals.

**7.2.3** The General Contractor shall furnish to the County Representative for approval the name of the manufacturer, the model number, and other identifying data and information respecting the performance, capacity, nature and rating of any machinery and mechanical or other equipment which the Contractor contemplates incorporating in the Work. When Submittals are required for materials, the General Contractor shall furnish full information concerning the material or articles which it contemplates incorporating in the Work. When required, samples shall be submitted for approval by the County, at the Contractor's expense, with all shipping charges prepaid. Machinery, equipment, material and articles installed or used without required approval(s) shall be at the risk of subsequent rejection.

**7.2.4** Submittals shall be forwarded to the County Representative sufficiently in advance of construction requirements to allow reasonable time for the County's review. Submittals shall be accompanied by a letter of transmittal which shall list the Project Title, the Submittals included, the specification section number applicable to each, and the date shown on each Submittal. Submittals shall be complete in every respect and shall be bound in sets. Each Submittal shall be clearly marked to show each item, component, and/or optional feature proposed to be incorporated into the Project. Cross reference to the plans or specifications shall be made as needed to identify the use for which the item or component is intended.

**7.2.5** The General Contractor shall check all Submittals for compliance with the requirements of the Contract Documents. The Contractor shall be solely responsible for checking all dimensions and coordinating all materials and trades to ensure that the components or products proposed, individually or in combination, will fit in the space available and that they will be compatible with other components or products provided. The Contractor shall clearly note, in writing, any and all items which deviate from the requirements of the Contract Documents, and the reason(s) for deviation shall be included

with the Submittal. Deviations shall be marked in bold face type or lettering and listed on a separate page or pages containing the heading "DEPARTURES FROM DRAWINGS AND SPECIFICATIONS." Submission of any Submittal to the Representative shall constitute the Contractor's certification that the equipment and material shown in the Submittal is that proposed to be incorporated into the Project, is in compliance with the Contract drawings, specifications and other requirements of the Contract Documents (unless otherwise indicated), and can be installed in the allocated spaces.

**7.2.6** If a Submittal indicates a departure from the requirements of the Contract Drawings, Specifications or other requirements of the Contract Documents, the County Representative may reject the Submittal, or, if he deems it to have merit, may recommend it to the County, who shall approve or reject it as the County, in its sole discretion, sees fit. Any departure from the Contract Documents must be further authorized by a Change Order.

## **ARTICLE 8**

### **GENERAL CONTRACTOR'S INSPECTION OF AND CORRECTION OF DEFECTIVE OR INCOMPLETE WORK**

**8.1 Rejection And Correction Of Work In Progress:** During the course of Project, the General Contractor shall inspect and promptly reject any Work

(i) which does **not** conform to the Construction Documents; or

(ii) which does not comply with any applicable law, statute, code, building code, rule or regulation of any governmental, public and quasi-public authorities and agencies having jurisdiction over the Site, the Work or the Project.

**8.1.1** The General Contractor shall promptly correct or require the correction of all rejected Work, whether observed before or after Substantial Completion and whether or not fabricated, installed or completed. The General Contractor shall bear all costs of correcting such Work, including additional testing and inspections and compensation for all services and expenses necessitated by such correction.

**8.1.2** The General Contractor shall bear the cost of correcting destroyed or damaged Work, whether completed or partially completed, of the County or other trade contractors or subcontractors caused by the General Contractor's correction or removal of rejected Work.

**8.2 Covered Or Concealed Work:** If a portion of its scope of the Work has been covered, the General Contractor shall, if notified to do so by the County, uncover the designated portion for observation and then replace it.

**8.2.1** If the designated portion of the Work was covered contrary to the request of the County, or to requirements specifically expressed in the Construction Documents, the General Contractor shall receive no additional compensation for the costs of uncovering and replacement or modification of the Construction Schedule.

**8.2.2** If the designated portion of the Work was covered prior to a specific request by the County that it remain uncovered, the General Contractor shall receive additional compensation for the costs of uncovering and replacement or modification of the Construction Schedule(s) only if the designated portion of the Work was in conformance with the Construction Documents.

## **ARTICLE 9**

### **CHANGE ORDERS AND CHANGES TO THE WORK**

**9.1 Change Order Requests:** Any party to the construction process may request changes to the Work, compensation or applicable schedules.

**9.1.1** With respect to such requests for changes by the General Contractor, the General Contractor shall prepare and submit a change order request to the designated County Representative.

**9.1.2** With respect to requests for changes by parties other than the General Contractor, the General Contractor shall promptly review and respond to any such change order requests submitted by the County or Professional.

**9.1.3** When requested to do so, the General Contractor shall prepare and submit to the County or Professional, drawings, specifications or other data in support of a change order request.

**9.1.4** Each change order shall detail time and monetary impacts of the change, whether the change order is considered alone or with all other changes the course of the project.

**9.2 County-Directed Changes:** The County, by Construction Change Directive, and without invalidating or breaching the Contract, may direct the General Contractor to implement changes in the Work so long as the Work the County is requiring is not outside of the general scope of this Contract For Construction, and the General Contractor, upon written direction from the County, shall proceed with such change.

**9.2.1** The County Representative, without the County's prior approval, may authorize or direct the General Contractor to make minor changes in the Work which are consistent with the intent of the Construction Documents and which do not involve a change in Project cost, time for construction, Project scope, or approved design elements, and the General Contractor shall promptly carry out such changes. Any such minor changes shall be implemented by a written field order and executed by the General Contractor.

**9.2.2** Construction Change Directives may be utilized to order changes in the Work within the general scope of the Contract, consisting of additions, deletions or other revisions, the Contract Price and Contract Time to be adjusted accordingly. A Construction Change Directive shall be used in the absence of total agreement on the terms of a Change Order. Upon receipt of a Construction Change Directive, the General Contractor shall promptly proceed with the change in the Work involved and shall advise the Representative of the General Contractor's agreement or disagreement with the method, if any, provided in the Construction Change Directive for determining any proposed adjustment in the Contract Price or Contract Time. A Construction Change Directive signed by the General Contractor indicates the agreement of the General Contractor therewith. Such agreement shall become effective immediately and shall be recorded as a Change Order.

**9.3 Administration Of Changes:** The County Representative will administer and manage all change order requests and change orders and will prepare required drawings, specifications and other supporting data as necessary in connection with minor changes, change order requests and change orders.

**9.4 Compensation For Changes:** With respect to all change order requests involving credit to the County or additional compensation to the General Contractor, the General Contractor shall:

- (i) obtain from subcontractors and suppliers the best possible price quotations;
- (ii) review such quotations to ascertain whether they are reasonable;

(iii) prepare an itemized accounting together with appropriate supporting data, including reasonable expenditures by, and savings to, those performing the scope of the Work involved in the proposed change; and,

(iv) provide a reasonable price quotation to the designated County Representative.

**9.4.1** If price quotations for change order requests are determined by the County to be unreasonable, the General Contractor shall, in writing, justify said quotations or provide additional back-up materials. If after review of the additional information the County determines the quotation is unreasonable, the County may require the General Contractor to perform the subject Work on a time and material basis.

**9.4.2** The General Contractor shall be allowed no additional compensation for any costs, fees or expenses incurred in performing services already required by this Contract for Construction, and shall not be entitled to additional reimbursement for its home office, other non-job site or indirect overhead expenses, or tools necessary for construction.

**9.4.3** It is the responsibility of the General Contractor to review and approve all pricing of additional work required of its subcontractors and suppliers.

**9.4.4** Under no circumstances may any change order(s) be used to increase the amount of this fixed price contract, without adequate consideration to the County, for any purpose, including, but not limited to, relief of the General Contractor from the consequences of an error in its bid.

**9.4.5** The following may constitute allowable costs for changes in the Work, subject to 9.4.2, above:

(i) Labor costs for employees directly employed in the change in the Work, including salaries and wages plus the cost of payroll charges and fringe benefits and overtime premiums, if such premiums are explicitly authorized by the County;

(ii) Materials incorporated into the change to the Work, including costs of transportation and storage, if applicable;

(iii) Equipment incorporated in the changed Work or equipment used directly in accomplishing the Work. If rented expressly for accomplishing the change, the cost shall be the rental rate according to the terms of the rental agreement, which the County shall have the right to approve in advance. If owned by the Contractor, the costs shall be a reasonable price based upon the life expectancy of the equipment and the purchase price of the equipment;

(iv) costs of increases in premiums for the Standard Labor and Material Payment Bond and the Standard Performance Bond, provided coverage for the cost of the change in the Work results in such increased costs. At the County's request, the Contractor shall provide proof of his notification to the Surety of the change in the Work and of the Surety's agreement to include such change in its coverage. There shall be no Contractor mark-up to the cost of the increase in the premium;

(v) Contractor and Subcontractor overhead costs as follows: if a Subcontractor, at any tier, does all or part of the changed Work, the Subcontractor's markup on that Work for overhead and profit shall not exceed ten percent (10%) and the Contractor's markup of a Subcontractor's Work, and all intervening tiers of Subcontractors, shall not exceed a total of ten percent (10%); if the General Contractor does all or part of the changed Work, then its markup for overhead and profit on the changed Work it performs shall not exceed ten percent (10%)

(vi) other costs, expressly agreed to by the County in writing that are directly attributable to the change in Work, with the exception of those set forth below.

**9.4.6** Allowable costs for changes in the Work shall **exclude** the following:

(i) Costs due to the negligence of the Contractor, any Subcontractor, Supplier, their employees or other persons for whom the Contractor is responsible, including, without limitation, costs for correction of defective Work, for improper disposal of material, for equipment wrongly supplied, for delay in performing the Work, or for delay in obtaining materials or equipment;

(ii) Home office expenses including payroll costs for the Contractor's officers, executives, administrators, project managers, accountants, counsel, engineers, timekeepers, estimators, clerks, and other similar administrative personnel employed by the Contractor, whether at the Site or in the Contractor's principal or branch office for general administration of the Work; these costs are deemed overhead included in the percentage markups allowable in 9.4.4, above.

(iii) Home and field office expenses, including, without limitation: expenses of home and branch offices, Contractor's capital expenses, interest on Contractor's capital used for the Work, charges for delinquent payments, small tools, incidental job costs, rent, utilities, telephone and office equipment and other general overhead expenses..

**9.4.7** All Change Orders must state that the Contract Time for Completion or Completion Date is not changed, or that the Time for Completion/Completion Date is either increased or decreased by a specific number of days. The old Time for Completion/Completion Date, and if changed, the new Time for Completion/Completion Date must be stated on the face of each Change Order.

**9.4.8** The acceptance by the General Contractor of any payment made by the County under a Change Order shall be and operate as a release to the County of all claims by the Contractor and of all liability owing to the Contractor for all things done or furnished in connection with the Work described in the Change order. The execution of any Change order by the County shall not be an acceptance of any Work or materials not in accordance with the Contract Documents, nor shall it relieve the Contractor of responsibility for faulty materials or workmanship, or operate to release the Contractor or his surety from any obligation arising under the Contract or any Performance or Payment Bond.

**9.5 Performance Of Changes:** Upon receipt of an field order or change order the General Contractor shall proceed to promptly perform the change in the Work. All changes in the Work shall be performed under applicable conditions of the Construction Documents.

**9.6 Disputes Regarding Changes:** If the General Contractor disputes a decision regarding:

(i) whether a change has occurred;

(ii) whether a change in the Work will result in adjustment of its compensation or applicable schedules; or

(iii) the amount of any adjustment of compensation or applicable schedules, the General Contractor shall notify the County in writing of the dispute, as provided below. Once placed in dispute the General Contractor shall nevertheless carry out the change, if directed so to do by County. The General Contractor will not prejudice any claim that it may have with respect to that change so long as the General Contractor notifies the County in writing; however, failure to timely notify the County in writing shall constitute the General Contractor's waiver of any claim resulting from the change.

**9.6.1** In the event a change order request is approved by the County in the absence of an agreement with the General Contractor as to cost, time, or both, the appropriate Representative will:

- (i) receive and maintain all documentation pertaining thereto required of the General Contractor;
- (ii) examine such documentation on the County's behalf;
- (iii) take such other action as may be reasonably necessary or as the County may request; and,
- (iv) make a written recommendation to the County concerning any appropriate adjustment in the construction cost or time.

**9.7 Necessity for Signed Writing:** No act, omission or course of dealing shall alter the requirement that change orders must be in writing and signed by the County, and that change orders are the exclusive method for effecting any adjustment to the General Contractor's compensation or applicable schedules. The General Contractor understands and agrees that neither its compensation nor applicable schedules can be changed by implication, oral agreement, or unwritten change order. The execution of a change order by the General Contractor shall constitute conclusive evidence of the General Contractor's agreement to the ordered changes in the Work, to the Construction Contract as thus amended, to the Contract Price as amended, and to the time for performance by the General Contractor. The General Contractor, by executing the change order, waives and forever releases any claim against the County for additional time or compensation, with respect to the changes specified therein.

**9.8 Consent of Surety.** The General Contractor shall notify and obtain the consent and approval of the General Contractor's surety with reference to all change orders, if such notice, consent or approval is required by the County, the surety or by applicable law. The General Contractor's execution of the change order shall constitute the General Contractor's warranty to the County that the surety has been notified of, and consents to such change order, and the surety shall be conclusively deemed to have been notified of such change order and to have expressly consented thereto.

**9.9 Work Subject to Change Order.** Neither the General Contractor nor any subcontractor(s) shall commence any work which is, or by provisions of this Contract is required to be, the subject of a change order, unless and until the required Change Order has been fully executed by both the County and the General Contractor.

## **ARTICLE 10**

### **FINANCIAL CLAIMS AND LIENS**

**10.1 Notification Regarding Liens:** The General Contractor shall immediately notify the County, both orally and in writing, of the nature and details of any mechanics' liens, construction liens, builder's trust fund claims, or claims of any type made by anyone against the County, the General Contractor or any subcontractor or supplier of any of them or against the Project whether or not such claims arise from the Work.

**10.2 Discharge of Liens:** The General Contractor shall take all action necessary to obtain the prompt discharge of any liens or claims filed against the Project. If any lien or claim filed against the Project is not discharged and released by the claimant, the General Contractor shall, within a reasonable period of time, but in no event more than fourteen (14) calendar

days after request and at its own cost, promptly obtain discharge and release of such lien or claim by filing the appropriate bond. If the General Contractor fails to have any such lien or claim discharged and released, or fails to file the appropriate bond, the County shall have the right to pay all sums necessary to obtain such a discharge and release, and the General Contractor shall bear and be liable to the County for all expenses incurred by the County in so doing, including, without limitation, reasonable attorneys fees.

## **ARTICLE 11**

### **COUNTY'S CONSULTANT(S), PROFESSIONAL(S) AND CONSTRUCTION ADMINISTRATION**

**11.1 County's Designated Representative:** Unless otherwise directed by the County, the Representative designated on Page 1 of this Contract for Construction shall act as the County's representative from the effective date of this Contract until one (1) year from the date the General Contractor achieves Substantial Completion.

**11.2** The Representative will:

- (i) be the County's design representative during performance of the Work;
- (ii) consult with and advise the County on all design and technical matters;
- (iii) be the County's representative in dealing with the General Contractor on all such matters; and,
- (iv) administer this Contract For Construction.

**11.2.1** Unless otherwise directed by the County, the County and the General Contractor shall communicate with each other in the first instance through the designated Representative. The County's instructions, directions and other relevant communications or directives to the General Contractor will be issued through the designated Representative.

**11.2.2** The designated Representative will act as initial interpreter of the requirements of this Contract For Construction and as the County's advisor on claims.

**11.3 Site Visits:** The County Representative will visit the Site with sufficient frequency for familiarization with the progress and quality of the Work and to inspect the Work for substantial compliance with:

- (i) this Contract For Construction, including approved shop drawings and other submittals;
- (ii) the Construction Schedule; and,
- (iii) applicable laws, statutes, codes, building codes, rules or regulations of all governmental, public and quasi-public authorities and agencies having or asserting jurisdiction over the Project.

**11.4 Rejection Of Work:** The County Representative may disapprove or reject Work which does not comply with:

- (i) this Contract For Construction including approved shop drawings and other submittals; or
- (ii) applicable laws, statutes, codes, building codes, rules or regulations of any governmental, public and quasi-public authorities and agencies having or asserting jurisdiction over the Project.

**11.5 Evaluations:** The County Representative will review and evaluate the results of all inspections, tests and written reports required by this Contract and by any governmental entity having or asserting jurisdiction over the Project. The Representative will take appropriate action on test results, including acceptance, rejection, requiring additional

testing or corrective work, or such other action deemed appropriate by the Representative. The Representative will promptly reject Work which does not conform to and comply with testing requirements.

**11.5.1** The Representative may require inspection or testing of any Work in addition to that required by this Contract For Construction or governmental entities having or asserting jurisdiction over the Project when such additional inspections and testing is necessary or advisable, whether or not such Work is then fabricated, installed or completed. The Representative will take appropriate action on all such special testing and inspection reports, including acceptance, rejection, requiring additional testing or corrective work, or such other action deemed appropriate by the Professional(s).

**11.6 Submittal Activities:** The Representative will review and approve, reject or take other appropriate action on submittals (e.g., shop drawings, product data, samples, proposed equal materials or equipment and requested substitutions) within not more than fourteen (14) calendar days, and will not approve any submittals unless such submittals conform with

(i) the Project design concept;

(ii) this Contract For Construction; and

(iii) the County's budgeted Total Project Construction Cost. The Representative's review of submittals shall not constitute final acceptance of materials or equipment furnished or installed if such materials or equipment should be defective or not as represented by approved submittals or as otherwise required by the Construction Documents. The General Contractor remains responsible for details and accuracy, for confirming and correlating all quantities and dimensions, for selecting fabrication processes, for techniques of assembly, and for performing its scope of the Work.

**11.7 Professional Interpretations:** The Professional shall, when requested to do so in writing by the General Contractor, promptly and so as to cause no unnecessary delay, render written or graphic interpretations and decisions necessary for the proper execution of the Work. The Professional's interpretations and decisions relating to artistic effect shall be final, if not inconsistent with this Contract and the Plans.

**11.8 Change Order Activities:** The Representative will consult with and advise the County concerning, and will administer and manage, all change order requests and change orders on behalf of the County.

**11.9 Pay Application Activities:** The County Representative will review applications for payment, including such accompanying data, information and schedules as the Representative requires to determine the amounts due to the General Contractor and shall authorize payment by the County to the General Contractor in writing. After the General Contractor's scope of the Work is determined to be finally complete and the Representative determines that the General Contractor has completed the Scope of the Work, the Representative will determine whether the General Contractor is entitled to final payment, and if so, the Representative will certify that determination to the County in writing.

**11.10 Representative Relationship to General Contractor:** The duties, obligations and responsibilities of the General Contractor under this Contract For Construction shall not be changed, abridged, altered, discharged, released, or satisfied by any duty, obligation or responsibility of the Representative. The General Contractor shall not be a third-party beneficiary of any agreement by and between the County and the Representative. The duties

of the General Contractor to the County shall be independent of, and shall not be diminished by, any duties or obligations of any Professional to the County.

## **ARTICLE 12**

### **INSPECTION, CORRECTION OF WORK, AND PROJECT CLOSE OUT**

**12.1 Substantial Completion:** Substantial Completion of the General Contractor's Work shall be deemed to have occurred on the first day on which both of the following circumstances exist:

(i) the General Contractor's Work passes, or has passed, a Substantial Completion inspection, and

(ii) the General Contractor has produced all required Substantial Completion documentation and items.

**12.1.1** The General Contractor shall accomplish Substantial Completion of its scope of the Work on or before the required date of Substantial Completion specified in this Construction Contract.

**12.1.2** When the General Contractor believes that its Work, or a portion thereof which the County agrees to accept separately, is substantially complete, it shall notify the County that its Work is ready for a Substantial Completion inspection.

**12.1.3** At or prior to the substantial completion inspection, the General Contractor will prepare and furnish to the Representative a Declaration of Substantial Completion, which at a minimum must:

(i) contain a blank for entry of the date of Substantial Completion, which date will fix the commencement date of warranties and guaranties and allocate between the County and the General Contractor responsibility for security, utilities, damage to the Work and insurance;

(ii) include a list of items to be completed or corrected prior to final payment and state the time within which the General Contractor will complete or correct listed items; and;

(iii) contain signature lines for the County, the General Contractor and the Representative.

**12.1.4** Upon receipt of notification from the General Contractor the Representative will coordinate with the County and the General Contractor a date for inspection of the Work to determine whether the Work is substantially complete.

**12.1.5** At inspection(s) to determine whether the General Contractor's Work is substantially complete, the Representative will:

(i) inspect the General Contractor's Work;

(ii) list additional items to be completed or corrected; and,

(iii) determine, in consultation with the County, whether Substantial Completion of the General Contractor's Work has occurred.

**12.1.6** If the General Contractor's Work is determined not to be substantially complete, the General Contractor shall continue to prosecute the Work until the Work is substantially complete and the inspection process shall be repeated at no additional cost to the County until the Work is determined to be substantially complete.

**12.1.7** On or prior to the date of Substantial Completion, the General Contractor shall deliver to the appropriate Representative keys, permits, the certificate of occupancy, and other necessary and customary documents and items pre-requisite for the County's occupancy and use of the Work for its intended purpose. The Representative will obtain and review

Substantial Completion documentation and items, and will inform the General Contractor of any deficiencies.

**12.1.8** When the County, the General Contractor and the representative agree that the General Contractor's Work has passed the Substantial Completion inspection and the General Contractor has produced the required Substantial Completion documentation and items, they shall each sign the Declaration of Substantial Completion declaring the Work substantially complete and establishing the actual date of Substantial Completion. The Declaration of Substantial Completion shall also include a list of and time line for the completion of Work needing completion and correction.

**12.2 Partial Occupancy or Use.** The County may occupy or use any completed or partially completed portion of the Work at any stage when such portion is designated by separate written agreement with the General Contractor, provided such occupancy or use is consented to by the insurer and authorized by public authorities having jurisdiction over the Work. Such partial occupancy or use may commence whether or not the portion is substantially complete, provided the County and General Contractor have accepted in writing the responsibilities assigned to each of them for payments, retainage (if any), security, maintenance, heat, utilities, damage to the Work, and Insurance, and if the County and the General Contractor have also agreed in writing concerning the period for correction of the Work and commencement of warranties required by the Contract Documents. Consent of the General Contractor to partial occupancy or use shall not be unreasonably withheld. The stage of the progress of the Work at the time of partial occupancy or use shall be determined by written agreement between the County and the Contractor, or if no agreement is reached, by decision of the Architect. When the General Contractor considers a portion of the Work partially occupied or used by the County to be substantially complete, the General Contractor shall prepare a list and submit it to the County as provided by Section 12.1

**12.3 Final Completion:** Final Completion of the General Contractor's Work shall be deemed to have occurred on the first day on which both of the following circumstances exist:

- (i) the General Contractor's Work passes, or has passed a Final Completion inspection, and
- (ii) the General Contractor has produced all required Final Completion close-out documentation and items.

**12.3.1** The General Contractor shall accomplish Final Completion of its scope of the Work on or before the required date of Final Completion specified in this Construction Contract.

**12.3.2** When the General Contractor believes its scope of the Work is finally complete, the General Contractor shall notify the County and the Representative that the Work is ready for a Final Completion inspection.

**12.3.3** Upon receipt of such notification from the General Contractor, the Representative will coordinate with the County and the General Contractor a date for inspection of the Work to determine whether the Work is finally complete.

**12.3.4** At the Final Completion inspection to determine whether the General Contractor's Work is finally complete, the Representative will:

- (i) inspect the General Contractor's Work;
- (ii) determine whether the General Contractor has satisfactorily completed or corrected all items on the list included with the Declaration of Substantial Completion;
- (iii) determine whether the General Contractor's Work complies with

- (a) this Contract For Construction;
- (b) applicable laws, statutes, codes, building codes, rules or regulations of all governmental, public and quasi-public authorities and agencies having jurisdiction over the Project; and,
- (c) applicable installation and workmanship standards;
- (iv) determine whether required inspections and approvals by the official(s) having or asserting jurisdiction over the Project have been satisfactorily completed; and,
- (iv) determine, in consultation with the County, whether the General Contractor's Work is finally complete.

**12.3.5** If the General Contractor's Work is not finally complete, the General Contractor shall continue to prosecute the Work until the Work is finally complete and the inspection process shall be repeated at no additional cost to the County until the Work is finally complete.

**12.3.6** On or prior to the date of Final Completion, the General contractor shall deliver to the County Representative the following Final Completion close-out documentation and items:

- (i) all operating and instruction manuals not previously produced during commissioning and required maintenance stocks;
- (ii) one paper set, and one electronic file of complete as-built drawings and markups;
- (iii) certification and affidavit that all insurance required of the General Contractor beyond final payment, if any, is in effect and will not be canceled or allowed to expire without notice to the County;
- (iv) written consent of the surety(ies), if any, to final payment;
- (v) full, final and unconditional waivers of mechanics or construction liens, releases of builder's trust fund or similar claims, and release of security interests or encumbrances on the Project property from each contractor, subcontractor, supplier or other person or entity who has, or might have a claim against the County or the real property which is the subject of this Construction Contract;
- (vi) full, final and unconditional certification and affidavit that all of the General Contractor's obligations to contractors, subcontractors, suppliers and other third parties for payment for labor, materials or equipment related to the Project have been paid or otherwise satisfied;
- (vii) all written warranties and guarantees relating to the labor, goods, products, materials, equipment and systems incorporated into the General Contractor's scope of the Work, endorsed, countersigned, and assigned as necessary;
- (viii) affidavits, releases, bonds, waivers, permits and other documents necessary for final close-out of Work;
- (ix) a list of any item(s) due but unable to be delivered and the reason for non-delivery; and,
- (x) any other documents reasonably and customarily required or expressly required herein for full and final close-out of the General Contractor's Work.

**12.3.6** The County Representative will review and determine the sufficiency of all Final Completion close-out documentation and items required for Final Completion which are submitted by the General Contractor, and will immediately inform the General Contractor of any deficiencies and omissions.

## **ARTICLE 13**

### **GENERAL CONTRACTOR'S WARRANTIES AND GUARANTEES**

**13.1 One-Year Warranty:** In addition to the warranties and guarantees set forth elsewhere in this Contract For Construction, for a period of one (1) year after the date of Substantial

Completion, or the date of acceptance by the County, whichever is later, the General Contractor shall, upon request by the County, promptly correct all failures or defects in the Work.

**13.1.1** The General Contractor shall schedule, coordinate and participate in a walk-through inspection of the Work one (1) month prior to the expiration of the one-year correction period, and shall notify the County, and any necessary subcontractors and suppliers of the date of the walk-through inspection, and request their participation therein. The purpose of the walk-through inspection will be to determine if there are defects or failures which require correction

**13.1.2** Should the General Contractor fail to promptly correct any failure or defect, the County, a Related Party, or any successor in interest or assignee of either, may take whatever action(s) it deems necessary to remedy the failure or defect and the General Contractor shall promptly reimburse the County or Related Party for any expenses or damages incurred as a result of the General Contractor's failure to correct the failure or defect.

**13.1.3** Nothing contained in this Section 13.1 shall be construed to establish a period of limitation with respect to the General Contractor's obligations under this Contract For Construction. This Section 13.1 relates only to the General Contractor's specific obligations with respect to the Work, and has no relationship to the time within which the General Contractor's contractual obligations under this Contract For Construction may be enforced, nor to the time within which proceedings may be commenced to establish the General Contractor's liability with respect to any contractual obligations set forth within this Section 13.1 or contained elsewhere within this Construction Contract.

**13.2 Express Warranties and Guarantees - General Contractor:** In addition to the warranties and guarantees set forth elsewhere herein, the General Contractor expressly warrants and guarantees to the County:

**13.2.1** that the Work complies with the Construction Documents as well as all applicable laws, statutes, codes, building codes, rules and regulations of all governmental, public and quasi-public authorities and agencies having jurisdiction over the Project;

**13.2.2** that all goods, products, materials, equipment and systems incorporated into the Work conform to applicable specifications, descriptions, instructions, drawings, data and samples and shall be and are:

(i) new (unless otherwise specified or permitted) and without apparent damage or defect;

(ii) of quality equal to or higher than that required by the Construction Documents; and,

(ii) merchantable; and

(iv) that all management, supervision, labor and services required for the Work is and shall be in compliance with the requirements of this Contract For Construction, and that the Work is and shall be performed in a workmanlike manner.

**13.3 Express Warranties and Guarantees - Subcontractors And Suppliers:** The General Contractor shall require that each of its subcontractors and suppliers provide written warranties, guarantees and other undertakings to the County and the General Contractor in a form identical to the warranties, guarantees and other undertakings set forth in this Contract For Construction which warranties, guarantees and undertakings shall run to the benefit of the County, Related Parties, and the successors in interest and assigns of each, as well as the General Contractor.

**13.4 Non-Exclusivity and Survival:** The warranties and guarantees set forth in this Article, shall be in addition to all other warranties, whether express, implied or statutory, and they shall survive the County's payment, acceptance, inspection of or failure to inspect the Work, and review of the Construction Documents.

**13.5 Commencement of Obligations:** Unless otherwise specified, all of the General Contractor's warranty and guaranty obligations, including the time period(s) for all written warranties and guarantees of specifically-designated equipment required by the Construction Documents, shall begin on the actual date of Substantial Completion or the date of acceptance by the County, whichever is later.

## **ARTICLE 14**

### **COUNTY'S DUTIES, OBLIGATIONS AND RESPONSIBILITIES**

**14.1 County's Representative:** The County shall designate a Representative to serve as the County's primary communication contact with the General Contractor. The name and address of the County's Designated Representative shall be as set forth on Page 1 of the Contract for Construction.

#### **14.2 County's General Duties**

**14.2.1** The County shall timely compensate the General Contractor in accordance with this Contract For Construction.

**14.2.2** Unless otherwise specifically required to be provided by the General Contractor within the scope of Work, the County shall secure and pay for all Project testing.

**14.2.3** The County shall review documents prepared by the General Contractor in a timely manner and in accordance with schedule requirements. Review by the County shall be solely for the purpose of determining whether such documents are generally consistent with the County's intent. No review of such documents shall relieve the General Contractor of any of its responsibilities with respect thereto.

**14.2.4** The County shall not have control or charge of construction means, methods, techniques, sequences or procedures, or for safety precautions and programs in connection with the Work, nor shall the General Contractor, for any of the foregoing purposes, be deemed the agent of the County.

## **ARTICLE 15**

### **GENERAL CONTRACTOR'S COMPENSATION**

**15.1 Unit Prices:** If any portion of the Contract Price is determined by the application of unit prices, the number of units contained in the General Contractor's Compensation Schedule is an estimate only, and the compensation to the General Contractor shall be determined by the actual number of units incorporated in, or required by, the Work.

**15.2 Schedule of Values:** Within the time designated within this Contract for Construction, the General Contractor shall prepare and present to the County the General Contractor's schedule of values, apportioning the Construction Contract Price among the different elements of the scope of the Work, for purposes of periodic and final payment. The General Contractor's Schedule of Values shall be presented in the format, and with such detail and supporting information, requested of the General Contractor by the County. The General Contractor shall not imbalance or artificially inflate any element of its Schedule of Values. If the Schedule of Values is determined to be inappropriate, or if any supporting

documentation or data is deemed to be inadequate, the Schedule of Values shall be returned to the General Contractor for revision or for additional supporting documentation or data. Upon the County's acceptance of the Schedule of Values, as evidenced by the Representative's signature, the Schedule of Values shall be used to process and pay the General Contractor's payment requests and shall be deemed to constitute a reasonable, balanced basis for payment of the Contract Price to the General Contractor. The Schedule of Values shall not be changed without written change order authorized by the County.

**15.3 Invoicing Procedures:** In accordance with the procedures and requirements set forth in this Article, the General Contractor shall invoice the County and the County shall pay the General Contractor the Construction Contract Price.

**15.3.1** Not less than once every thirty (30) calendar days following the Commencement Date, but no more frequently than once per calendar month, the General Contractor shall submit invoices to the County requesting payment in accordance with the Schedule of Values for labor and services rendered during the preceding thirty (30) calendar days. Each invoice shall contain such detail and be backed up with whatever supporting information the County requests. At a minimum the invoice shall:

- (i) state the total Construction Contract Price;
- (ii) state the amount due for labor, materials and equipment provided during the preceding 30 days; and with respect to amounts invoiced for materials or equipment necessary for the Project and properly stored at the Site (or elsewhere if offsite storage is approved in writing by the County), be accompanied by written proof that the County has title to such materials or equipment and that such material and equipment is fully insured against loss or damage;
- (iii) provide an itemized statement or other general breakdown of the various phases or parts of the General Contractor's Scope of Work, as related to the Construction Contract Price;
- (iv) state the value of the various phases or parts actually performed during the period covered by the invoice;
- (v) state any previously invoiced amounts and credit payments made; state the total amount due, less any retainage; and,
- (vii) have attached such lien waivers, or other documentation verifying the General Contractor's payment to subcontractors and suppliers as the County may request, in their sole discretion.

**15.4 Payment Procedures:** The General Contractor's invoices, and any other requests for payments authorized by this Contract, must be approved by the County Representative and must meet the minimum requirements set forth in section 15.3, above, as condition(s) precedent to the County's obligation to pay. Payments issued by the County shall be deemed timely if postmarked at least two (2) business days before the Payment Date identified within the Contract for Construction, or any alternative payment due date stated in this Article.

**15.4.1** The required payment date shall be either:

- (i) the date on which payment is due under the terms of this Construction Contract; or (ii) if such date is not established by the Contract, not more than forty-five days after goods or services are received or not more than forty-five days after an invoice in a form acceptable to the County is rendered, whichever is later. Separate payment dates may be specified for contracts under which goods or services are provided in a series of partial deliveries or

executions, to the extent any such contract specifically provides for separate payment for such partial delivery or execution. In the event that any invoice contains a defect or impropriety which would prevent payment by the Payment Date, the County shall notify the General Contractor in writing of such defect or impropriety. Any disputed amounts determined by the County to be payable to the General Contractor shall be due thirty (30) days from the date the dispute is resolved.

**15.4.2** The County's signature to this Construction Contract constitutes its certification that, as of the date of signature, public funds are available and have been appropriated in the amount specified in the original Contract documents as and for the Contract Price. Payment and performance obligations of the County are expressly conditioned upon the availability of and appropriation by the County of public funds therefore in each subsequent fiscal year. When public funds are not appropriated or are otherwise unavailable to support continuation of performance by the County in a subsequent fiscal period, this contract and the County's obligations hereunder shall automatically expire, without liability or penalty to the County, and the General Contractor shall be reimbursed for the reasonable value of any non-recurring costs incurred but not amortized in the price of the products, supplies or services delivered under this Construction Contract. Within a reasonable time following County Council's adoption of a budget, the County shall provide the Contractor with written notice of any non-appropriation or unavailability of funds affecting this Contract.

**15.4.3** If Contractor is an individual, then he or she shall provide the County with his Social Security Number on or before commencement of performance of construction services under this Contract. If Contractor is a proprietorship, partnership, or corporation, then Contractor shall provide its federal employer identification number(s) to the County on or before its commencement of performance of construction services under this Contract.

**15.4.4** Unless otherwise specified within the Contract Documents, the County will make progress payments to the contractor, in installments based upon an estimated percentage of completion. With each installment, the contractor shall be paid at least ninety-five percent (95%) of the total amount earned, as determined and approved by the Representative, withholding the balance as retainage, to assure faithful performance of the contract. Amounts withheld may be included in the final payment to the contractor. Where the General Contractor utilizes a subcontractor in connection with a County construction contract, and the subcontract provides for progress payments, then the General Contractor shall be subject to the same percentage limitations with respect to progress payments made to subcontractors.

**15.4.5** The General Contractor shall have the option to use an escrow account procedure for utilization of the County's retainage funds, when contracting directly with the County for contracts involving \$200,000 or more of public funds, where portions of the contract price are to be retained, where such contracts are for: construction of highways, roads, streets, bridges, parking lots, demolition, clearing, grading, excavating, paving, pile driving, drainage structures and the installation of water, gas, sewer lines and pumping stations. In the event a Contractor elects to utilize the escrow account procedure, then any sub such public project which provides for progress payments shall be subject to the same escrow account procedures.

(i) the Contractor shall indicate its election to use the escrow account procedure, by completing the escrow agreement form and contract included in the Bid Documents for this

Project. The form and contract shall be submitted to the County within fifteen (15) calendar days after the Contractor is notified of the award of the contract. If the escrow agreement form and contract are not submitted within the 15 day period, then the Contractor shall forfeit its right to the use of the escrow account procedure.

(ii) In order to have retained funds paid to an escrow agent, the Contractor, the escrow agent, and the surety shall execute an escrow agreement form. The Contractor's escrow account shall be a trust company, bank or savings institution with its principal office located in the Commonwealth of Virginia.

(iii) This escrow account procedure shall not apply to public contracts for construction of railroads, public transit systems, runways, dams, foundations, installation or maintenance of power systems for the generation and primary and secondary distribution of electric current ahead of the customer's meter, the installation or maintenance of telephone, telegraph or signal systems for public utilities or the construction or maintenance of solid waste or recycling facilities and treatment plants.

**15.5 County's Right to Refuse Payment:** The Representative's approval of the General Contractor's invoice shall not preclude the County from exercising any of its remedies under this Contract. In the event of a dispute, payment shall be made on or before the Payment Date for amounts not in dispute, subject to any set-offs claimed by the County. The County shall have the right to refuse to make payment of any invoice, and, if necessary, may demand the return of a portion or all of the amount previously paid to the General Contractor due to:

(i) the General Contractor's failure to perform its scope of the Work in compliance with the requirements of this Contract For Construction or any other agreement between the parties;

(ii) the General Contractor's failure to correctly and accurately represent the work performed in a payment request, or otherwise;

(iii) the General Contractor's performance of its scope of the Work at a rate or in a manner that, in the County's opinion, is likely to result in the Project or any portion of the Project being inexcusably delayed;

(iv) the General Contractor's failure to use funds previously paid the General Contractor by the County, to pay General Contractor's Project-related obligations including, but not limited to, the General Contractor's subcontractors, materialmen, and suppliers;

(v) claims made, or claims likely to be made, against: (a) the County, (b) the property which is the subject of this Construction Contract, or (c) the Professional. The General Contractor's failure to attach to any invoice the lien waivers or other documentation required by section 15.3

(vi) of this Construction Contract shall constitute *prima facie* evidence of such claims likely to be made;

(vii) loss caused by the General Contractor or the General Contractor's subcontractors, or suppliers; and,

(viii) the General Contractor's failure or refusal to perform any of its obligations to the County.

**15.6 Correction of Past Payments:** All prior payments, whether based on estimates or otherwise, may be corrected and adjusted in any subsequent payment and shall be corrected and adjusted in the final payment. In the event that any invoice contains a defect or impropriety which would prevent payment by the Payment Date, the County shall notify the General Contractor in writing of such defect or impropriety. Any disputed amounts

determined by the County to be payable to the General Contractor shall be due thirty (30) calendar days from the date the dispute is resolved.

**15.7 Interest on Outstanding Amounts Due:** No interest shall accrue when payment is delayed due to a dispute between the County and the Contractor, or a dispute as to the accuracy or completeness of any request for payment received. This exception to the accrual of interest shall apply only to that portion of a delayed payment which is actually the subject of the dispute and shall apply only for the duration of such disagreement. No interest shall accrue on any retainage which is withheld by the County to assure performance of this Contract.

**15.8 Invoice Warranties and Guarantees:** The General Contractor expressly warrants and guarantees to the County that:

(i) title to all goods, products, materials, equipment and systems covered by an invoice will pass to the County in accordance with Virginia law, either by incorporation into the Work, or upon receipt of payment by the General Contractor, whichever occurs first;

(ii) all goods, products, materials, equipment and systems covered by an invoice are free and clear of liens, claims, security interests or encumbrances; and,

(iii) no goods, products, materials, equipment or systems covered by an invoice have been acquired by the General Contractor, or its subcontractors or suppliers, subject to an agreement under which an interest therein or an encumbrance thereon is retained by the seller or otherwise imposed by the General Contractor, or its subcontractors or suppliers.

**15.9 General Contractor's Signature:** The signature of the General Contractor on any invoice constitutes the General Contractor's certification to the County that:

(i) the General Contractor's services listed in the invoice have progressed to the level indicated and have been performed as required by the Contract;

(ii) the General Contractor has paid its subcontractors and suppliers, if any, their proportional share of all previous payments received from the County; and,

(iii) the amount requested is currently due and owing.

**15.10 Taxes:** The General Contractor shall incorporate into the Contract Price, and shall pay, all sales, consumer, use and similar taxes for goods, products, materials, equipment and systems incorporated into its scope of the Work which were legally required at the time of execution of this Contract for Construction, whether or not yet effective or merely scheduled to go into effect. The General Contractor shall secure, defend, protect, hold harmless, and indemnify the County and Related Parties from and against any and all liability, loss, claims, demands, suits, costs, fees and expenses (including actual fees and expenses of attorneys, expert witnesses, and other consultants) relating to any taxes assessed or imposed upon, incurred by or asserted against the County and Related Parties by any taxing authority with respect to such taxes. The General Contractor shall cooperate with and assist the County in securing qualified refunds of any sales or use tax paid by the County or General Contractor on goods, products, materials, equipment or systems. Any refund secured shall be paid to the County.

**15.11 Compensation of General Contractor's Subcontractors and Suppliers.** Within seven days after receipt of amounts paid to the General Contractor by the County, for work performed by a subcontractor, the General Contractor shall take one of the following two actions:

- (i) pay the subcontractor for the proportionate share of the total payment received from the agency attributable to the work performed by the subcontractor; or
- (ii) notify the County and the subcontractor, in writing, of the contractor's intention to withhold all or a part of the subcontractor's payment, specifying the factual basis and reason for the nonpayment. The General Contractor shall include in each of its subcontracts a provision requiring each subcontractor to include or otherwise be subject to the same payment requirements with respect to each lower-tier subcontractor.

**15.11.1** The County shall have no obligation to pay, and shall not be responsible for payments to the General Contractor's subcontractors or suppliers. However, the County reserves the right, but shall have no duty, to make payment jointly to the General Contractor and to any of its subcontractors or suppliers in the event that the County becomes aware that the General Contractor fails to pay or unreasonably withholds payment from one or more of those entities. Such joint check procedure, if utilized by the County, shall create no rights in favor of any person or entity beyond the right of the named payees to payment of the check and shall not be deemed to commit the County to repeat the procedure in the future.

**15.12 Final Payment:** Prior to becoming entitled to receive final payment, and as a condition precedent thereto, the General Contractor must achieve Final Completion. The County shall, subject to its rights set forth in this Contract for Construction, make final payment of all sums due the General Contractor within fourteen (14) calendar days of the Representative's execution of a final approval for payment.

## **ARTICLE 16**

### **SCHEDULE REQUIREMENTS**

**16.1 Construction Schedule:** The General Contractor shall submit to the County and to the Representative a Construction Schedule, which shall include all pertinent dates and periods for timely completion of the Work.

**16.1.1** Unless otherwise directed and approved by the County, the General Contractor shall prepare the Construction Schedule as a critical path schedule with separate divisions for each major portion of the Work or operations. The Construction Schedule shall include and properly coordinate dates for performance of all divisions of the Work, including completion of off-Site requirements and tasks, so that the Work can be completed in a timely and orderly fashion consistent with the required dates of Substantial Completion and Final Completion.

**16.1.2** The Construction Schedule shall include

- (i) the required Commencement Date, and the required dates of Substantial Completion and Final Completion;
- (ii) any guideline and milestone dates required by the County;
- (iii) any applicable subcontractor and supplier sub-schedules;
- (iv) a submittal schedule which allows sufficient time for review of documents and submittals;
- (v) the complete sequence of construction by activity, with dates for beginning and completion of each element of construction; and,
- (vi) required decision dates;

**16.1.3** By reviewing the Construction Schedule, the County and the Representative do not assume any of the General Contractor's responsibility that the Construction Schedule be coordinated or complete, or for timely and orderly completion by the required dates of

Substantial Completion and Final Completion, and any milestone dates required by the County, and review and acceptance of the Construction Schedule by the County and a Representative shall not relieve the General Contractor of any of its responsibilities established under this Contract.

**16.1.4** The General Contractor shall review and compare, on a weekly basis, the actual status of the Work against the Construction Schedule. The General Contractor shall discuss, on a weekly basis, the status of the Work with the Representative.

**16.1.5** The General Contractor shall periodically, but no less frequently than once per month prepare a revised Construction Schedule, showing actual progress of the Work through the revision date, projected completion of each remaining activity, activities modified since previous submittal, major changes in scope, and other identifiable changes. In addition, a revised Construction Schedule shall be prepared by the General Contractor whenever the General Contractor anticipates that performance of the Work will be delayed or in fact has been delayed.

**16.1.6** The General Contractor, in submitting its bid, acknowledges that it has taken into consideration normal weather conditions. To be counted as an adverse weather delay day, adverse weather must prevent work on critical activities for fifty percent (50%) or more of a scheduled work day. The General Contractor shall submit to the Representative a written adverse weather report for each calendar month, to be submitted to the Representative within five (5) calendar days following the last day of the reporting month being reported. Failure to submit the required written report within the time specified shall constitute a waiver by the General Contractor of any and all claims for delay due to adverse weather conditions occurring during the month for which the report was required to be submitted.

**16.1.7** The time established by the Contract Documents for Substantial Completion must be used in all schedules as the date on which Substantial Completion will be achieved. Extensions of time, damages for delay, and all other matters between the County and the Contractor will be determined using the contractually required Substantial Completion date.

**16.2 Delay In Performance:** If at any time the General Contractor anticipates that performance of the Work will be delayed or in fact has been delayed, the General Contractor shall:

- (i) immediately notify the designated Representative of the probable cause of and effect from the delay, and possible alternatives to minimize the delay; and
- ii) take all corrective actions reasonably necessary to deliver the Work by the required dates of Substantial Completion and Final Completion, and other milestone dates established by this Contract.

**16.3 Modifications to Time For Performance:** The General Contractor shall determine and promptly notify the County in writing when it believes adjustments to the required dates of Substantial Completion or Final Completion, or other milestone dates established by this Contract, are necessary. No such adjustments shall be effective unless approved in writing by the County.

- (i) If the General Contractor wishes to make a claim for an increase in the time for performance, written notice shall be given to the County. The General Contractor's claim shall include an estimate of cost and of probable effect of delay on progress of the Work.
- (ii) If adverse weather conditions are the basis for a claim for additional time, such claim shall be documented by data substantiating that weather conditions were abnormal for the

period of time, and that the weather conditions could not have been reasonably anticipated and had an adverse effect on the scheduled construction (e.g., that adverse weather conditions persisted for a time period exceeding the Contract Allowance for adverse weather days, etc.). All of the evidence and data supporting the request (including both historical data and the recordings at the Site during the time of the delay) must be furnished to the County before any consideration will be given to the request. Any requested extension must be supported by a delay in completion of the entire Project shown on the critical path of the accepted Schedule required by the Project. A request for extension of time based on abnormal weather, including all required supporting data, must be submitted to the County in writing **within five (5) calendar days** of the completion of the calendar month during which abnormal weather is claimed at the Site.

**16.4 Early Completion:** General Contractor may attempt to achieve Substantial Completion on or before the required date of Substantial Completion. However, such planned early completion shall be for the General Contractor's sole convenience and shall not create any additional General Contractor rights or County obligations under this Contract For Construction, nor shall such early completion unilaterally change the required dates of Substantial Completion or Final Completion. The County shall not pay the General Contractor any additional compensation for achieving Substantial Completion or Final Completion prior to the required dates nor will the County owe the General Contractor any compensation, should the County cause the General Contractor not to achieve, or should the County decline to accept, Substantial Completion or Final Completion earlier than the dates established by this Contract.

**16.5 Modification Dates of Substantial Completion or Final Completion:** The General Contractor may propose modifications to the required dates of Substantial Completion or Final Completion. The County may (in its sole discretion), but is not required to accept General Contractor's proposal. Modification(s) of the required dates of Substantial Completion or Final Completion shall be accomplished only by duly authorized and accepted written change order(s) stating the new date(s) and reciting that all references in this Contract For Construction to the required dates of Substantial Completion or Final Completion shall thereafter refer to the date(s) as modified, and all rights and obligations, including the General Contractor's liability for actual damages, delay damages and liquidated damages, shall be determined in relation to the dates, as modified.

**16.6 Document Review:** The General Contractor shall provide documents to the County for review in accordance with schedule requirements and with sufficient lead time to allow the County reasonable time for review.

## **ARTICLE 17**

### **LIQUIDATED DAMAGES**

**17.1 Time Is of The Essence:** The parties hereto mutually understand and agree that time is of the essence in the performance of this Contract For Construction and that the County will incur damages if the General Contractor's scope of the Work is not completed in accordance with the required dates of Substantial Completion and Final Completion. The General Contractor shall at all times carry out its duties and responsibilities as expeditiously as possible and shall begin, perform and complete its services so that:

(i) the Work progresses in accordance with the Construction Schedule;

- (ii) the Work is substantially completed by the required date of Substantial Completion; and
- (iii) the Work is finally complete by the date of Final Completion.

**17.2 Failure to Timely Achieve Completion:** The parties hereto mutually understand and agree that the County will sustain substantial monetary and other damages in the event of a failure or delay by the General Contractor in the completion of its scope of the Work. If the General Contractor inexcusably fails to achieve Substantial Completion by the date established by this Contract, then the General Contractor shall pay to the County, as liquidated damages for delay and not as a penalty, the daily amount of \$300.00 for Phase 1, and separately \$300.00 for Phase 2, for each and every day after the required date of Substantial Completion until actual Substantial Completion. This liquidated damages provision shall apply and remain in full force and effect in the event that General Contractor is terminated by County for default and shall apply until Substantial Completion has been achieved by any other contractor(s) hired to complete the Work. If the General Contractor fails to achieve Final Completion by the required date of Final Completion established in this Contract, the General Contractor shall pay to the County, as liquidated damages for delay and not as a penalty, the daily amount specified in this Contract for Construction, for each and every day after the required date of Final Completion until actual Final Completion.

**17.3 Compensable or Excusable Delays:**

(i) If the General Contractor is delayed at any time in the progress or performance of its scope of the Work by:

- (a) acts or omissions of the County ;
- (b) major changes ordered by the County in the Scope of Work; or
- (c) any other cause which the County determines may justify the compensation of the General Contractor for the delay (individually and together referred to as "Compensable Delays"), then the General Contractor's compensation shall be equitably adjusted to cover the General Contractor's actual and direct increased costs attributable to such Compensable Delay.

(ii) If the General Contractor is delayed at any time in the progress or performance of its scope of the Work by:

- (a) acts or omissions of the County;
- (b) major changes ordered by the County in the Scope of Work;
- (c) fire;
- (d) unusual delays in transportation;
- (e) adverse unusual weather conditions not reasonably anticipated by the General Contractor;
- (f) unavoidable casualties;
- (g) causes beyond the General Contractor's control which the County agrees in writing are justifiable; or
- (h) any other cause which the County determines may justify the delay (individually and together referred to as "Excusable Delay"), then the Construction Schedule shall be extended for a period equal to the length of such Excusable Delay, but only if:

(1) immediately, but not later than seven (7) calendar days after the beginning of any such Excusable Delay, the General Contractor gives notice of its delay claim to the County;

(2) the delay is not in any way caused by default or collusion on the part of the General Contractor, or by any cause which the General Contractor could reasonably control or circumvent; and

(3) the General Contractor would have otherwise been able to timely perform all of its obligation under this Contract, but for such delay.

(iii) Any delay which does not qualify as a Compensable Delay or Excusable Delay under this Contract shall be deemed and designated an "Unexcused Delay."

(iii) Delay caused by labor disputes, picketing, employee boycotts, or the like, which directly or indirectly involves employees of the General Contractor, or its subcontractors and suppliers, is not the responsibility of the County and will result in time extensions only if agreed to in writing by the County, at its sole discretion, at the time such events arise. The General Contractor shall notify the County in writing of any delay it attributes to labor disputes, picketing, employee boycotts, or the like, which directly or indirectly involves employees of the General Contractor, or its subcontractors and suppliers, immediately upon becoming aware thereof.

**17.4 County's Right to Withhold Payment:** When it reasonably believes:

(i) that Substantial Completion will be inexcusably delayed; or

(ii) that the General Contractor will inexcusably fail to achieve Final Completion by the date of Final Completion, the County shall be entitled, but not required, to withhold from any amounts otherwise due the General Contractor the daily amount specified as and for liquidated damages for each calendar day of the unexcused delay. If and when the General Contractor overcomes the delay in timely achieving Substantial Completion or Final Completion, or any part thereof, for which the County has withheld payment, the County shall promptly release to the General Contractor those funds withheld, but no longer applicable, as liquidated damages;

## **ARTICLE 18**

### **CONCEALED AND UNFORESEEN CONDITIONS**

**18.1 Notification Regarding Unusual Conditions:** If

(i) the General Contractor encounters concealed and unforeseen conditions, of an unusual nature, which affect the performance of the Scope of Work; or

(ii) the site conditions vary from those indicated by the Construction Documents; and,

(iii) such conditions are not ordinarily found to exist or differ materially from those generally recognized as inherent in work of the character provided by the General Contractor, the General Contractor shall promptly, but in no event later than three (3) calendar days after first observance of such conditions, notify the Representative and the County before conditions are disturbed, to give the County an opportunity to observe the condition in its undisturbed state.

**18.1.1** The conditions will be promptly investigated and, if they differ substantially and cause a material increase or decrease in the General Contractor's cost of, or time required for, performance of its scope of the Work, the General Contractor's compensation or time for performance or both will be equitably adjusted.

**18.1.2** All adjustments in compensation or extensions of time attributable to unforeseen site conditions shall be by change order. Change order requests must be made within fourteen (14) calendar days from the date of observation of the changed conditions.

**18.1.3** The General Contractor's failure to notify the County as required by this Article shall constitute a waiver of any claims, of any nature whatsoever, arising out of or relating to such concealed or unknown condition.

## **ARTICLE 19**

### **GENERAL CONTRACTOR'S RECORDS**

**19.1 Preparation of Records:** The General Contractor shall, concurrently with performance of its services, prepare written records substantiating and documenting all services rendered, construction performed and all goods furnished.

**19.2 Retention of Records:** Except as otherwise specifically provided in this Construction Contract, the General Contractor shall keep and retain records performing to this Project, including, without limitation, copies of all specifications, submittals, correspondence, minutes, memoranda, tape recordings, videos, accounting records, documents reflecting the unit price of construction and other writings, electronic messages, transmissions or recordings, and other items which document the Project, its design, and its construction. The General Contractor shall maintain all such records for a period of three (3) years after the date of Final Completion, or for any longer period of time as may be required by law or good construction practice. If the General Contractor receives notification of a dispute or the commencement of litigation regarding the Project within this five (5) year period, the General Contractor shall continue to maintain all Project records until final resolution of the dispute or litigation.

**19.3 Access to Records:** Upon the request of the County, the General Contractor shall make its records available to the County (including, without limitation, the County's authorized or designated representatives), and to the representatives or agents of any state, federal or other regulatory authority requesting such records, during normal business hours. The County, as well as any state, federal or other regulatory authority, shall have the right to inspect, examine, review and copy the General Contractor's records at the copying party's reasonable expense. Failure by the General Contractor to keep or provide access to records required by this Contract shall be reason to exclude the related costs from amounts which might otherwise be payable by the County to the General Contractor under this Contract.

## **ARTICLE 20**

### **PROPRIETARY DOCUMENTS AND CONFIDENTIALITY**

**20.1 Nature and Use of Information:** All information, documents, and electronic media furnished by the County to the General Contractor

(i) belong to the County;

(ii) are proprietary records of the County;

(iii) are furnished solely for use on the Project;

(iv) shall be kept confidential by the General Contractor; and

(v) shall not be used by the General Contractor on any other project or in connection with any other person or entity, unless disclosure or use thereof in connection with any matter other than services rendered to the County hereunder is specifically authorized in writing by the County in advance.

**20.1.1** The County hereby grants to the General Contractor a limited license to use and reproduce applicable portions of the Construction Documents necessary for execution of the

Scope of Work. All copies made under this license shall bear the statutory copyright notice, if any, shown on the documents.

**20.2 County Ownership of Information:** All information, documents, and electronic media prepared by or on behalf of the General Contractor for the Project shall be and remain the sole property of the County free of any retention rights of the General Contractor. The General Contractor hereby grants to the County an unconditional right to use, for any purpose whatsoever, any information, documents or electronic media prepared by or on behalf of the General Contractor for the Project, free of any copyright claims, trade secret rights or other proprietary rights with respect to such documents.

**20.3 Disclosure of Information:** The General Contractor shall not disclose any information it receives from the County to any other person or entity except to the extent necessary to allow it to perform its duties under this Contract For Construction.

**20.4 Instructions to Employees:** Because it is difficult to separate proprietary and confidential information from that which is not, the General Contractor shall instruct its employees and agents to regard all information which is not in the public domain as proprietary and confidential.

**20.5 Non-Publication:** Submission or distribution of documents to meet official regulatory requirements or for other required purposes in connection with the Project is not to be construed as publication in derogation of the County's common law copyrights or other reserved rights.

## **ARTICLE 21**

### **GENERAL INSURANCE REQUIREMENTS**

**21.1 General Insurance Requirements:** Unless otherwise required, each Required Insurance policy:

- (i) shall be issued by an insurance carrier authorized to do business within the Commonwealth of Virginia, and otherwise acceptable to the County;
- (ii) shall be kept in force throughout performance of the General Contractor's services and for three (3) years after the end of such performance;
- (iii) shall be an occurrence policy;
- (iv) shall be evidenced by a certificate of insurance acceptable to the County which provides that the coverage evidenced thereby shall not be substantially modified or canceled without prior written notice to the County; and
- (v) shall be endorsed to name the County and its officials, officers, and employees and agents as "additional insured."

**21.2 Certificates Of Insurance:** Prior to performance of any services on the Project, the General Contractor shall:

- (i) have all required insurance coverage in effect; and
- (ii) deliver to the County certificates of insurance, or other documentation satisfactory to the County in its sole discretion, evidencing the required insurance coverage. Upon the request of the County, the General Contractor shall promptly deliver to the County certificates of insurance and/or copies of policies and endorsements for all Required Insurance coverage. The General Contractor shall require each of its subcontractors and suppliers to have similar coverage in effect, prior to the performance of any services by such subcontractors and suppliers.

**21.2.1** Further, the General Contractor shall ensure that all required Insurance coverages of its subcontractors and suppliers is and remains in effect during performance of their services on the Project. The County shall have no responsibility to verify compliance by the General Contractor or its subcontractors and suppliers.

**21.3 Effect of Insurance:** Compliance with insurance requirements shall not relieve the General Contractor of any responsibility to indemnify the County for any liability to the County, as specified in any other provision of this Contract For Construction, and the County shall be entitled to pursue any remedy in law or equity if the General Contractor fails to comply with the contractual provisions of this Contract For Construction. Indemnity obligations specified elsewhere in this Contract shall not be negated or reduced by virtue of any insurance carrier's denial of insurance coverage for the occurrence or event which is the subject matter of the claim, or by any insurance carrier's refusal to defend any named insured.

**21.4 Waiver of Subrogation:** The General Contractor hereby releases and discharges the County of and from all liability to the General Contractor, and to anyone claiming by, through or under the General Contractor, by subrogation or otherwise, on account of any loss or damage to tools, machinery, equipment or other property, however caused.

## **ARTICLE 22**

### **GENERAL BOND REQUIREMENTS**

**22.1 General Bond Requirements:** The General Contractor shall be required to provide performance and payment bonds, and the penal sum of each bond shall be in an amount not less than the Contract Price, as adjusted by any change order(s). Each bond shall:

- (i) be in a form approved by the County Attorney, be made payable to the County, and be filed with the County;
- (ii) incorporate by reference the terms of this Contract For Construction;
- (iii) be executed by a company certified by the Secretary of the United States Department of Treasury pursuant to the Act of July 30, 1947 (61 Stat. 646, as amended; 6 U.S.C. 6-13);
- (iv) be executed by a company licensed and authorized to do business in the Commonwealth of Virginia;
- (v) be accompanied by a power of attorney certifying that the person(s) executing the bond have the authority to do so;
- (vi) be, in the case of a performance bond, conditioned upon the faithful performance of the contract in strict conformity with the plans, specifications and conditions of the contract;
- (vii) be, in the case of a payment bond, for the protection of claimants who have and fulfill contracts to supply labor or materials to the General Contractor, or to any subcontractors, in the prosecution of the Work which is the subject of this Contract for Construction;
- (viii) be, in the case of a payment bond, conditioned upon the prompt payment for all labor or;
- (ix) materials supplied to the General Contractor, or to any subcontractors, in the prosecution of the Work which is the subject of this Contract for Construction.

**22.2 Delivery of Bonds:** The General Contractor shall deliver any required bond(s) and power(s) of attorney to the County prior to commencement of the Work.

**22.3 Subcontractor Bonds.** Nothing in this Article shall preclude the General Contractor from requiring each subcontractor to furnish a payment bond with surety thereon in the sum

of the full amount of the subcontract conditioned upon the payment to all persons who have and fulfill contracts which are directly with the subcontractor for performing labor or furnishing materials as required by the subcontract.

## **ARTICLE 23**

### **COUNTY'S RIGHT TO STOP WORK**

**23.1 Cease and Desist Order:** If the General Contractor fails to perform, refuses to perform, or fails to correct defective Work as required, or if the General Contractor persistently fails to carry out the Work in accordance with the Contract, the County may, by written notice, order the General Contractor to cease and desist performing the Work until the cause for the order has been eliminated to the satisfaction of the County. Upon receipt of such instruction, the General Contractor shall immediately cease and desist as instructed by the County and shall not proceed further until the cause for the County's order has been corrected, until the cause no longer exists, or until the County instructs the General Contractor in writing to resume performance of the Work.

**23.1.1** The General Contractor shall not be entitled to an adjustment in the time for performance, or the Contract Price, as a result of any order to cease and desist, because any such stoppage is considered to be the fault of the General Contractor.

**23.1.2** The right of the County to stop the Work shall not give rise to a duty on the part of the County to exercise this right for the benefit of the General Contractor or any other individual or entity.

**23.1.3** In the event the County issues instructions to cease and desist, and in the further event that the General Contractor fails and refuses within seven (7) calendar days to provide adequate assurance to the County that the cause of such instructions will be eliminated or corrected, then the County shall have the right, but not the obligation, to carry out the Work or any portion of the Work with its own forces, or with the forces of another contractor, and the General Contractor shall be responsible for the cost incurred by the County to carry out the Work.

**23.1.4** The rights set forth herein are in addition to, and without prejudice to, any other rights or remedies the County may have against the General Contractor.

## **ARTICLE 24**

### **TERMINATION OR SUSPENSION OF CONTRACT FOR CONSTRUCTION**

**24.1 Termination for Cause By County:** The County may terminate this Contract For Construction for cause if the General Contractor breaches this Contract For Construction, through any act or omission, by:

(i) refusing, failing, or being unable to properly manage or perform the Work required for the Project;

(ii) refusing, failing or being unable to maintain applicable schedules, or to supply the Project with sufficient numbers of workers, properly skilled workers, or proper materials;

(iii) refusing, failing or being unable to make prompt payment to subcontractors or suppliers;

(iv) disregarding laws, ordinances, rules, regulations or orders of any public authority or quasi-public authority having jurisdiction over the Site, the Work or the Project;

(v) refusing, failing or being unable to substantially perform in accordance with the terms of this Contract For Construction (including, without limitation, failure to comply with any required insurance provisions), or as otherwise defined elsewhere herein.

(vi) Each of the foregoing items shall be deemed a material breach and default of this Contract.

**24.1.1** Upon the occurrence of any of the events described in Paragraph 24.1.1, the County may give notice to the General Contractor setting forth the nature of the default, requesting cure within seven (7) calendar days from the date of notice, and notifying the General Contractor that failure to cure within the 7 day period shall entitle the County to immediately terminate the Contract. At any time thereafter, if the General Contractor fails to initiate the cure and continue to cure the default, the County, without prejudice to any other rights or remedies, may take any or all of the following actions:

(i) complete all or any part of the General Contractor's scope of the Work, including supplying workers, material and equipment which the County deems expedient to complete the General Contractor's scope of the Work;

(ii) contract with other builder(s) to complete all or any part of the General Contractor's scope of the Work, including supplying workers, material and equipment which the County deems expedient to complete the General Contractor's work;

(iii) take such other action as is necessary to correct such failure; and,

(iv) give notice to the General Contractor of immediate termination.

**24.1.2** If the County terminates this Contract for cause, the County may also, without prejudice to any other rights and remedies:

(i) take possession of all materials, tools, construction equipment and machinery on the Site owned or leased by the General Contractor;

(ii) directly pay the General Contractor's subcontractors and suppliers any compensation due to them from the General Contractor;

(iii) finish the General Contractor's Work by whatever means the County may deem expedient; and,

(iv) require the General Contractor to assign the General Contractor's right, title and interest in General Contractor's subcontracts or orders to the County.

**24.1.3** If the County terminates this Contract for cause and takes possession of materials, tools, construction equipment and machinery on the Site owned or leased by the General Contractor, then the General Contractor's compensation shall be increased by fair payment, either by purchase or rental at the election of the County, for any materials, tools, construction equipment and machinery items retained, subject to the County's right to recover from the General Contractor its damages resulting from the termination of the Contract.

**24.1.4** If the County terminates this Contract for cause and a court of competent jurisdiction subsequently determines the termination was without cause, then said termination shall be deemed a termination for convenience as set forth in Paragraph 24.3.

**24.2 Termination for Cause By General Contractor:**

**24.2.1** The General Contractor may terminate this Contract For Construction for cause if the County materially breaches this Contract For Construction by:

(i) refusing, failing or being unable to make payment to the General Contractor in accordance with the requirements of this Construction Contract, without just cause;

- (ii) disregarding laws, ordinances, rules, regulations or orders of any Public authority or quasi-public authority having jurisdiction over any Project;
- (iii) refusing, failing or being unable to substantially perform in accordance with the terms of this Contract For Construction.

**24.2.2** Upon the occurrence of any of the events described in Paragraph 24.2.1, the General Contractor may give notice to the County setting forth the nature of the default and requesting cure within seven (7) calendar days from the date of notice. If the County fails to cure the default the default within seven (7) calendar days, the General Contractor, without prejudice to any rights or remedies, may give notice to the County of immediate termination.

**24.3 Termination for Convenience:** The County may terminate this Contract for Construction, at any time, for its convenience, upon thirty days' advance written notice to the General Contractor. In the event of such termination the Contractor shall be compensated for services and work performed prior to the effective date of termination.

**24.3.1** Upon receipt of written notice from the County of a termination for the County's convenience, the General Contractor shall cease operations as directed by the County in the notice; take any actions necessary, or any actions that the County may direct, for the protection and preservation of the Work; and, except for Work directed to be performed prior to the effective date of termination, terminate all existing subcontracts and purchase orders and enter into no further subcontracts and purchase orders. In case of a termination for the County's convenience, the General Contractor shall be entitled to receive payment for Work executed in accordance with the Contract Documents prior to the effective termination date, in accordance with the approved Schedule of Values and Certificate(s) of Payment, and the General Contractor shall also be entitled to receive reasonable compensation for the actual cost of demobilization incurred by the Contractor as a direct result of such termination. The General Contractor shall not be entitled to compensation or damages for lost profits, or for any other type of contractual compensation or damages other than those provided by the preceding sentence. Upon payment of the amounts specified in this paragraph, the County shall have no further obligations to the General Contractor, of any nature whatsoever. In no event shall a termination for the convenience of the County terminate the obligations of the Contractor's surety on its payment or performance bond(s).

**24.4 General Contractor's Compensation When General Contractor Terminates For Cause:** If this Contract For Construction is (i) terminated by the General Contractor pursuant to Paragraph 24.2 then the County shall pay the General Contractor specified amounts due for Work actually performed prior to the effective termination date. In addition, unless otherwise expressly agreed by the County and the General Contractor in writing, then the County shall pay the following additional amounts to the General Contractor:

- (i) reasonable direct costs incurred by the General Contractor in preparation for performance of the terminated portion of its scope of Work, plus a fair and reasonable allowance for costs incurred by the General Contractor in the process of effectuating the termination, and a fair and reasonable allowance for costs of overhead incurred by the General Contractor specifically in contemplation of its performance of the terminated portion of its scope of Work.
- (ii) reasonable costs of settling and paying claims arising out of the termination of subcontracts or supplier orders. These costs shall not include amounts paid in accordance with other provisions hereof.

**24.5 General Contractor's Compensation When County Terminates For Cause:** If this Contract For Construction is terminated by the County for cause, no further payment shall be made to the General Contractor until Final Completion of the Project. Upon Final Completion the General Contractor shall be paid the remainder of the Contract Price less all costs and damages incurred by the County as a result of the default of the General Contractor, including liquidated damages applicable thereto.

**24.6 Limitation On Termination Compensation:** Regardless of the reason for termination or the party terminating, the total sum paid to the General Contractor shall not exceed the Contract Price, as properly adjusted and reduced by the amount of payments previously made and any penalties or deductions incurred pursuant to any other provision of this Contract, and shall in no event include any duplication of payment(s).

**24.7 General Contractor's Responsibility Upon Termination:** Regardless of the reason for termination or the party terminating, if this Contract For Construction is terminated, the General Contractor shall, unless notified otherwise by the County,

(i) immediately stop work;

(ii) reduce its staff, services and outstanding Commitments in order to minimize the cost of termination;

(iii) terminate outstanding orders and subcontracts;

(iv) settle the liabilities and claims arising out of the termination of subcontracts and orders; and,

(v) transfer title and deliver to the County such completed or partially completed Work, and, if paid for by the County, materials, equipment, parts, fixtures, information and such contract rights as the General Contractor has.

**24.8 Lack of Duty to Terminate:** The right to terminate or suspend the Work shall not give rise to a duty on the part of either the County or the General Contractor to exercise that right for the benefit of the County, General Contractor or any other persons or entities.

**24.9 Limitation on Termination Claim:** If the General Contractor fails to file a claim within sixty (60) days from the effective date of termination, the County shall not be obligated to pay the General Contractor any amount other than that owed to the General Contractor for services actually performed and expenses actually incurred prior to the effective termination date.

**24.10 Availability and Appropriation of Funds.** Payment and performance obligations of the County, beyond those appropriated in the initial fiscal year of this Contract, are expressly conditioned upon the availability of and appropriation by the County of public funds therefore in each subsequent fiscal year. When public funds are not appropriated or are otherwise unavailable to support continuation of performance by the County in a subsequent fiscal period, this contract and the County's obligations hereunder shall automatically expire, without liability or penalty to the County.

## **ARTICLE 25**

### **APPLICABLE LAW AND DISPUTE RESOLUTION**

**25.1 The procedure** shall govern all Contractual disputes and claims. All claims whether for money or other relief, shall be submitted in writing no later than sixty (60) days after final payment, however, written notice of the contractor's intention to file a claim must have been given at the time of the occurrence or beginning of the work upon which the claim is

based. Nothing herein shall preclude a contract from requiring submission of an invoice for final payment within a certain time after the completion and acceptance of the work or acceptance of the goods. Pendency of claims shall not delay payment of amounts agreed due in the final payment.

**(i) Contractual claims** shall first be presented to the project officer, or if none, to the purchasing agent.

**(ii) Any such claims** shall be set forth in writing with the amount and nature of each item separately stated. When no specific liquidated damages fees are allowed by law, the time actually and necessarily devoted to performance under the contract shall be verified by affidavit filed with the claim. The purchasing agent shall render a decision on any such claims within ten (10) business days. Appeals of such decision may be made by the contractor within ten (10) business days to the county administrator by serving a written notice of appeal upon the project officer or purchasing agent, as applicable, and the county administrator.

**(iii) The decision** of the County Administrator shall be rendered within fifteen (15) business days, and shall be final and conclusive unless the contractor appeals such decision to the Powhatan County Board of Supervisors within thirty (30) days of the date of the decision of the County Administrator in accordance with the requirements of Sections 15.2-1245 through 15.2-1248 of the Virginia Code.

**25.2 Remedies:** The remedies available to a vendor on appeal to the County Administrator shall be as provided in Chapter 43 of the Title 2.2 of the Virginia Code (Virginia Public Procurement Act).

**25.3 Mutual Discussion:** In case of any dispute, claim, question or disagreement arising from or relating to the Project or arising out of this Contract For Construction or the breach thereof, the parties shall first attempt resolution through mutual discussion.

**25.4 Arbitration Preclusion:** In case of a dispute relating to the Project, or arising out of this Contract For Construction, no party to this Contract For Construction shall be required to participate in or be bound by any arbitration proceedings.

**25.5 Legal Actions** -- If a vendor seeks judicial review of a final decision of the Appeal or initiates a legal action such appeal or legal action shall be governed by Article 5, Chapter 43 of Title 2.2, Section 2.2-4364 of the Virginia Code (Virginia Public Procurement Act).

## **ARTICLE 26**

### **DAMAGES AND REMEDIES**

**26.1 General Contractor's Repair:** The General Contractor shall, at its expense, promptly correct, repair, or replace all goods, products, materials, systems, labor and services which do not comply with the warranties and guarantees set forth in this Contract For Construction, or any other applicable warranty or guarantee.

**26.2 General Contractor's Reimbursement:** The General Contractor shall promptly reimburse the County for any expenses or damages incurred by the County as a result of:

(i) the General Contractor's failure to substantially perform in accordance with the terms of this Contract For Construction;

(ii) deficiencies or conflicts in the Construction Documents attributable to the General Contractor or of which the General Contractor was or should have been aware;

(iii) breach of the warranties and guarantees Set forth in this Contract For Construction or any other applicable warranty or guarantee; or

(iv) other acts or omissions of the General Contractor.

**26.3 General Indemnity:** To the fullest extent permitted by law the General Contractor shall secure, defend, protect, hold harmless, and indemnify the County from and against any and all liability, loss, claims, demands, suits, costs, fees and expenses (including actual fees and expenses of attorneys, expert witnesses, and other consultants), by whomsoever brought or alleged, and regardless of the legal theories upon which premised, including, but not limited to, those actually or allegedly arising out of bodily injury to, or sickness or death of, any person, or property damage or destruction (including loss of use), which may be imposed upon, incurred by or asserted against the County allegedly or actually arising out of or resulting from the General Contractor's services, including without limitation, any breach of contract or negligent act or omission

(i) of the General Contractor; or

(ii) of the General Contractor's subcontractors or suppliers, or

(iii) of the agents, employees or servants of the General Contractor or its subcontractors or suppliers.

**26.3.1** To the fullest extent permitted by the law of the Commonwealth of Virginia, the General Contractor, for itself and for its subcontractors and suppliers, and the respective agents, employees and servants of each, expressly waives any and all immunity or damage limitation provisions available to any agent, employee or servant under any workers' or workmen's compensation acts, disability benefit acts or other employee benefit acts, to the extent such statutory or case law would otherwise limit the amount recoverable by the County or the County's Related Parties pursuant to the indemnification provision contained in the paragraph above.

**26.4 Royalties, Patents and Copyrights:** The General Contractor shall pay all royalties and license fees. To the fullest extent permitted by law, the General Contractor shall defend, protect, hold harmless, and indemnify the County from and against any and all liability, loss, claims, demands, suits, costs, fees and expenses (including actual fees and expenses of attorneys, expert witnesses, and other consultants), by whomsoever brought or alleged, for infringement of patent rights, copyrights, or other intellectual property rights. The General Contractor shall not be responsible for such defense or loss when a particular design, process or product of a particular manufacturer is expressly required by the Contract Documents or where the copyright or patent violation(s) are contained in drawings, specifications or other documents prepared by the owner or Professional. However, if the General Contractor has reason to believe that a required design, process or product is an infringement of a copyright or patent, the General Contractor shall be responsible for such loss unless such information is promptly given to the County. **26.5 Non-Exclusivity Of County's Remedies:** The County's selection of any one or more remedies allowed by this Contract for breach hereof shall not limit the County's right to invoke any other remedy available to the County at law or by virtue of any other provision of this Contract.

**26.6 Waiver Of Damages:** The General Contractor shall not be entitled to, and hereby waives, any monetary claims and damages of any nature whatsoever arising from, or related to, any of the following: lost income, lost profits, lost financing, loss of reputation, lost business opportunities, loss of management or employee productivity or of the services of

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such persons; unabsorbed overhead, and principal office expenses (including, without limitation, the compensation of personnel stationed there, for losses of financing, business and reputation and for loss of profit). Nothing contained in this paragraph shall be deemed to preclude an award of liquidated damages, when applicable, in accordance with the requirements of the Contract Documents.

**26.7 Interest:** The County is entitled to interest on all amounts due from the General Contractor that remain unpaid thirty (30) days after the amount is deemed due, whether as a result of a resolution of a dispute or otherwise. Such interest shall be calculated and shall accrue at a rate of one percent (1%) per month.

**SECTION IV CONTRACT AGREEMENT**

**COUNTY OF POWHATAN, VIRGINIA  
CONTRACT FOR CONSTRUCTION AND RELATED SERVICES  
GENERAL CONTRACTOR'S FIXED PRICE FORM**

This Contract for Construction ("Contract") is entered into by and between:

OWNER: The County of Powhatan, Virginia, 3834 Old Buckingham Road, Powhatan, Virginia, 23139,

and

GENERAL CONTRACTOR: \_\_\_\_\_.

This Construction Contract is executed under seal and shall be effective as of the \_\_\_ day of \_\_\_, 2016.

**PROJECT IDENTIFICATION INFORMATION:**

Project Title: IFB# 2016-02

Project Description: Village Building Parking and Drainage Improvements

**ADDRESSES and AUTHORIZED REPRESENTATIVES:** The addresses and authorized representatives of the Owner, the General Contractor and any Professional (e.g., Architect or Engineer) working with the Owner in connection with this Contract are as follows:

**OWNER:**

Representative: Pat Weiler

Mailing Address: 3834 Old Buckingham Road, Powhatan, Virginia, 23139

Telephone: 804-598- 5612

E-mail: [pweiler@powhatanva.gov](mailto:pweiler@powhatanva.gov)

Representative: Ramona Carter

Mailing Address: 3834 Old Buckingham Road, Powhatan, Virginia 23139

Telephone: 804- 598-5764

E-mail: [rcarter@powhatanva.gov](mailto:rcarter@powhatanva.gov)

Representative: Mark Piper

Mailing Address: 3834 Old Buckingham Road, Powhatan, Virginia, 23139

Telephone: 804-598-5697

E-mail: [chris.sibold@timmons.com](mailto:chris.sibold@timmons.com)

**GENERAL CONTRACTOR:**

Representative:

Mailing Address:

Telephone:

Facsimile:

E-mail:

General Contractor's License No:

FEIN/ SSN #:

SCC #:

**RECITALS**

WHEREAS, the Owner intends to construct the Project and is engaging the General Contractor to perform certain labor, supervision and services and to provide certain equipment, goods and materials for the Project; and

WHEREAS, the Owner and General Contractor each acknowledges that it will act in good faith in carrying out its duties and obligations; and

WHEREAS, the Owner's engagement of the General Contractor is based upon the General Contractor's representations to the Owner that it: (i) is experienced in the type of labor and services the Owner is engaging the General Contractor to perform; (ii) is authorized and licensed to perform the type of labor and services for which it is being engaged within the County to perform; (iii) is qualified, willing and able to perform labor and services for the Project; and (iv) has the expertise and ability to provide labor and services which will meet the Owner's objectives and requirements, and which will comply with the requirements of all governmental, public and quasi-public authorities and agencies having or asserting jurisdiction over the Project; and

WHEREAS, the Owner and General Contractor each acknowledges that it has reviewed and familiarized itself with this Contract, including the documents enumerated in Section 1, and agrees to be bound by the terms and conditions contained therein.

NOW, THEREFORE, for good and valuable consideration, the parties agree as follows:

**SECTION ONE: GENERAL CONTRACTOR'S SCOPE OF WORK**

A. The General Contractor shall furnish or cause to be furnished, and shall pay for out of the Contract Price: all management, supervision, financing, goods, products, materials, equipment, systems, labor, services, permits, licenses, construction machinery, transportation and other facilities necessary for proper execution and completion of the Work, in accordance with all of the terms and conditions of this Contract.

B. The general nature of the Work the General Contractor is to complete may briefly be described as follows: furnish all labor, materials, tools, equipment and services for the complete the roads and ditches of Monastery Subdivisions.

## **SECTION TWO: THE CONTRACT DOCUMENTS**

A. This Contract between the parties is comprised of the following documents:

1. The original Invitation for Bid #2016-02, dated December 15, 2016 and all addenda thereto;
2. This Contract and all attached documents and appendices;
3. The General Terms and Conditions for Construction Contracts for the County of Powhatan, Virginia, incorporated herein by reference;
4. Drawings stamped APPROVED dated December 15, 2016 and post-contract modifications thereto, if any, included within the Owner's Invitation for Bids;
5. The bid and all required documents in response to the Invitation to Bid submitted by the General Contractor and the lawful and valid modifications thereto, if any; and
6. Any amendments or modifications executed by the Owner and General Contractor hereafter.

B. Documents not included or expressly contemplated or incorporated by reference in this Section Two do not, and shall not, form any part of this Contract.

## **SECTION THREE: TIME FOR PERFORMANCE**

A. Commencement of Construction. The General Contractor shall commence work upon receipt of Notice to Proceed and substantially complete the project within 120 days.

B. The General Contractor shall, not less than ten (10) business days after execution of this Contract, prepare and submit a Construction Schedule, to the Owner, in accordance with the requirements of the General Terms and Conditions (and any applicable Special Conditions) for this Contract.

## **SECTION FOUR: PERSONNEL AND CONSULTANTS**

A. The General Contractor shall prepare and attach to this Contract a Personnel Chart which lists by name, job category and responsibility the General Contractor's primary employees who will work on the Project. The General Contractor shall promptly inform the Owner in writing of any proposed replacements, the reasons therefore, and the name(s) and qualification(s) of proposed replacement(s). The Owner shall have the right to reject any proposed replacement. Under no circumstances shall the Owner be required to consent to a proposed replacement under circumstances where such replacement would result in an increase in the Contract Price.

B. The General Contractor shall prepare and attach to this Contract a list of the General Contractor's Subcontractors and Suppliers, listing by name and general Project responsibility each subcontractor and supplier who will be utilized by the General Contractor to provide goods or services with respect to the Project. The General Contractor shall not enter into any agreement(s) with any Subcontractor(s) or Supplier(s) to which the Owner raises a reasonable, timely objection. The General Contractor shall promptly inform the Owner in writing of any proposed replacements, the reasons therefore, and the name(s) and qualification(s) of proposed replacement(s). The Owner shall have the right to reject any proposed replacement. Under no circumstances shall the Owner be required to consent to a

proposed replacement under circumstances where such replacement would result in an increase in the Contract Price.

C. The Owner shall prepare and attach to this Contract a list, by name and general Project duties, of each consultant retained by the Owner to provide services with respect to the Project. The Owner reserves the right to engage any other consultants which it may deem necessary or desirable.

#### **SECTION FIVE: RELATION TO OWNER**

The General Contractor will be legally considered as an independent contractor and neither the General Contractor nor its employees will, under any circumstances, be considered servants or agents of the Owner. The Owner will not be legally responsible for any negligence or other wrongdoing by the General Contractor, its servants or agents. The Owner will not withhold payments to the General Contractor for any federal or state unemployment taxes, federal or state income taxes, Social Security tax, or any other amounts for benefits to the General Contractor. Further, the Owner will not provide to the General Contractor any insurance coverage or other benefits, including workers' compensation, normally provided by the Owner for its employees.

#### **SECTION SIX: COMPENSATION OF GENERAL CONTRACTOR**

A. The Owner shall pay and the General Contractor shall accept, as full and complete payment for the General Contractor's timely and complete performance of its obligations under this Contract the Contact Price of \_\_\_\_\_ and \_\_ cents (\$\_\_\_\_\_) Dollars subject to additions and deductions as approved by the owner, provided in the specifications or bids. This Contract Price includes the aggregate amount of all allowances and any unit price items to be furnished or installed.

B. Within ten (10) business days after execution of this Contract, the General Contractor shall prepare and present to the Owner the General Contractor's Compensation Schedule, to include a Schedule of Values for payment of the Contract Price.

C. Upon receipt by the Owner of the General Contractor's invoice, properly prepared in accordance with the General Terms and Conditions for this Contract, the Owner shall pay to the General Contractor ninety-five percent (95%) of the total amount approved by the Representative, withholding the balance as retainage, unless there is a dispute about the amount of compensation due the General Contractor.

D. If the General Contractor disputes a change order decision, then the General Contractor must give the Owner its written notice of dispute, including the reasons therefore, following the procedures set forth within the General Terms and Conditions for this Contract.

#### **SECTION SEVEN: SPECIFIC INSURANCE REQUIREMENTS**

A. The General Contractor shall purchase and maintain, at its expense, and from a company or companies authorized to do business within the Commonwealth of Virginia, insurance policies containing the following selected types of coverages and minimum limits of liability, protecting from claims which may arise out of or result from the General Contractor's

## Village Bldg. Parking and Drainage Improvements

performance or non-performance of services under this Contract, or the performance or non-performance of services under this Contract by anyone directly or indirectly employed by the General Contractor or for whose acts it may be liable:

i. Comprehensive General Liability, including Premises and Operations; Contractor's Protective Liability; Products Liability including Completed Operations Coverage; and Contractual Liability for this contract:

a. Limits: \$1,000,000 per incident / \$3,000,000 Total Bodily Injury (including death) \$1,000,000 per incident / \$3,000,000 Total Property Damage

ii. Comprehensive Automobile Liability, including all Owned Automobiles, Non-Owned Automobiles and Hired Car Coverage:

a. Limits: \$1,000,000 per incident / \$3,000,000 Total Bodily Injury (including death) \$1,000,000 per incident / \$3,000,000 Total Property Damage

iii. Employer's Liability for Participants not covered by Workers Compensation Insurance in an amount not less than \$100,000.

iv. Builder's Risk Insurance which includes, without duplication, but is not limited to: fire (with extended coverage), theft, vandalism, malicious mischief, collapse, windstorm, false work, testing and startup, temporary buildings and debris removal, and which provides coverage for one hundred percent (100%) of the General Contractor's the Work.

vi. General Contractor shall not perform any Work on this Project unless General Contractor has obtained, and continues to maintain for the duration of Work, such Workers' Compensation coverage as may be required pursuant to the provisions of Chapter 8 (Code Section 65.2-800 et seq.) of Title 65.2 of the Code of Virginia, 1950, as amended. General Contractor shall not allow any subcontractor to perform any work on Project unless the subcontractor has obtained, and continues to maintain for the duration of such work, such Worker's Compensation coverage as may be required pursuant to the provisions of Chapter 8 (Code Section 65.2-800 et seq.) of Title 65.2 of the Code of Virginia, 1950, as amended. General Contractor shall include the provisions of this subsection within each of its subcontracts, so as to bind each subcontractor.

A Certificate of Insurance shall be submitted within ten (10) business days after Notice of Award and included as a part of this Contract.

The General Contractor shall furnish to the Owner a binder adding the Owner as an additional insured on all policies except those pertaining to Workers Compensation and including the following language: "The above described policies shall not be canceled, modified, or amended or coverage reduced without the issuing company providing thirty (30) business days advance written notice to the County of Powhatan."

Should insurance coverage be changed or cancelled, regardless of the reason, the General Contractor shall furnish evidence of new coverage and submit a new and valid binder evidencing the required insurance. Failure to deliver a new and valid binder will result in suspension of all payments until the new binder is furnished.

All insurance required by this Contract shall be and remain in full force and effect for the life of the Contract.

This Contract shall be binding upon the Owner until the all insurance requirements and policies, required herein have been filed with the Owner (if requested) and all have been approved as to form and sufficiency by the County Attorney.

### **SECTION EIGHT: SPECIFIC BOND REQUIREMENTS**

The General Contractor shall be required to provide payment and performance bonds. The amount of the premiums shall be included in the Contract Price.

### **SECTION NINE: MISCELLANEOUS**

#### **A. NO DISCRIMINATION BY GENERAL CONTRACTOR**

During the performance of this Contract, the General Contractor agrees that it will not discriminate against any employee or applicant for employment because of race, religion, color, sex, national origin, age, disability or any other basis prohibited by law relating to discrimination in employment, except where there is a bona fide occupational qualification reasonably necessary to the normal operation of the contractor. The General Contractor agrees to post in conspicuous places, available to employees and applicants for employment, notices setting forth the provisions of this nondiscrimination clause. Also, the General Contractor, in all solicitations or advertisements for employees placed by or on behalf of the contractor, will state that it is an equal opportunity employer.

#### **B. MODIFICATION OF CONTRACT**

1. This Contract may be supplemented, modified, or amended by the mutual agreement of the parties hereto, set forth in writing. No supplement, modification or amendment shall be enforceable unless set forth within a writing signed by both the Owner and the General Contractor.

2. Notwithstanding the foregoing, this Contract may not be increased by more than twenty-five percent (25%) of the amount of the contract or \$50,000, whichever is greater, without the advance approval of the County Board of Supervisors. In no event may the amount of any County contract, without adequate consideration, be increased for any purpose, including, but not limited to, relief of a bidder from the consequences of an error in its bid.

#### **C. DRUG-FREE WORKPLACE**

During the performance of this Contract the General Contractor agrees as follows: (i) to provide a drug-free workplace for its employees; (ii) to post in conspicuous places, available to employees and applicants for employment, a statement notifying employees that the unlawful manufacture, sale, distribution, dispensation, possession, or use of a controlled substance or marijuana is prohibited in the General Contractor's workplace and specifying

the actions that will be taken against employees for violations of such prohibition; and (iii) state in all solicitations or advertisements for employees placed by or on behalf of the contractor that the contractor maintains a drug-free workplace; and (iv) include the provisions of the subsection in every subcontract or purchase order of over \$10,000, so that the provisions will be binding upon each subcontractor or vendor. For the purposes of this subsection, "drug-free workplace" means a site for the performance of work done in connection with a specific contract awarded to a contractor, the employees of whom are prohibited from engaging in the unlawful manufacture, sale, distribution, dispensation, possession or use of any controlled substance or marijuana during the performance of the contract.

#### D. PAYMENT OF SUBCONTRACTORS

The General Contractor is obligated to take one (1) of the two (2) following actions within seven (7) business days after receipt of amounts paid to the General Contractor by the Owner for work performed by any subcontractor under this Contract:

- (1) Pay the subcontractor for the proportionate share of the total payment received from the Owner attributable to the work performed by the subcontractor under the Contract; or
- (2) Notify the Owner and the subcontractor, in writing, of the General Contractor's intention to withhold all or a part of the subcontractor's payment with the reason for nonpayment.

The General Contractor is obligated to provide (i) its social security number if it is an individual or (ii) its federal identification number if it is a proprietorship, partnership, or corporation, in accordance with Section 2.2-4354 of the Code of Virginia. The General Contractor is obligated to pay interest to the subcontractor on all amounts owed by the General Contractor that remain unpaid after seven (7) business days following receipt by the General Contractor of payment from the Owner for work performed by the subcontractor under the Contract, except for amounts withheld as allowed in Subsection (2) above. Unless otherwise provided under the terms of this Contract, interest shall accrue at the rate of one percent (1%) per month. The General Contractor shall include in each of its subcontracts a provision requiring each subcontractor to include or otherwise be subject to the same payment and interest requirements with respect to each lower-tier subcontractor. The General Contractor's obligation to pay an interest charge to a subcontractor pursuant to the above provisions may not be construed to be an obligation of the Owner. A Contract modification shall not be made for the purpose of providing reimbursement for such interest charge. A cost reimbursement claim shall not include any amount for reimbursement for such interest charge.

#### E. GOVERNING LAW

This Contract and the Work performed hereunder shall be governed in all respects by the laws of the Commonwealth of Virginia and the venue for any litigation with respect thereto shall be in the Circuit Court for Powhatan County, Virginia. The provisions of this subsection shall control over any contrary provisions in the Contract Documents. The General Contractor shall comply with applicable federal, state and local laws and regulations.

#### F. FORCE MAJEURE

Neither party shall hold the other responsible for damages or delay in performance caused by acts of God, strikes, lockouts, or similar events beyond the control of the other.

#### G. NO WAIVER OF RIGHTS

No failure on the part of the Owner to enforce any of the terms or conditions set forth in this Contract shall be construed as or deemed to be a waiver of the right to enforce such terms or conditions. No waiver by the Owner of any default or failure to perform by the General Contractor shall be construed as or deemed to be a waiver of any other and/or subsequent default or failure to perform. The acceptance or payment of any rentals, fees and/or charges by the Owner, and/or the performance of all or any part of this Contract by the Owner, for or during any period(s) following a default or failure to perform by the General Contractor, shall not be construed as or deemed to be a waiver by the Owner of any rights hereunder.

#### H. SEVERABILITY

In the event that any term, provision or condition of this Contract, or the application thereof to any person or circumstances, shall be held by a court of competent jurisdiction to be invalid or unenforceable, the remainder of this Contract, and the application of any term, provision or condition contained herein to any person or circumstances other than those to which it has been held invalid or unenforceable, shall not be affected thereby.

#### I. NO PERSONAL LIABILITY

Nothing herein shall be construed to create any personal liability on the part of any elected or appointed official, officer, agent or employee of the Owner.

#### J. ETHICS IN PUBLIC CONTRACTING

This Contract incorporates by reference any state or federal law related to ethics, conflict of interests, or bribery, including by way of illustration and not limitation, the Virginia Conflict of Interests Act, the Virginia Governmental Frauds Act, and Articles 2 and 3 of Chapter 10 of Title 18.2 of the Code of Virginia, as amended. The General Contractor certifies that its offer is made without collusion or fraud and that it has not offered or received any kickbacks or inducements from any other offeror, supplier, manufacturer, or subcontractor in connection with this solicitation, and that it has not conferred on any public employee having official responsibility for this solicitation any payment, loan, subscription, advance, deposit of money, services, or anything of more than nominal value, present or promised unless consideration of substantially equal or greater value was exchanged.

#### K. IMMIGRATION REFORM AND CONTROL ACT OF 1986

The General Contractor certifies that it does not and will not during the performance of the Contract employ illegal alien workers or otherwise violate the provisions of the federal Immigration Reform and Control Act of 1986.

#### L. AUTHORIZATION TO TRANSACT BUSINESS IN THE COMMONWEALTH

General Contractor shall be authorized to transact business in the Commonwealth as a domestic or foreign business entity if so required by Title 13.1 or Title 50 or as otherwise required by law. General Contractor shall not allow its existence to lapse or its certificate of authority or registration to transact business in the Commonwealth, if so required under Title 13.1 or Title 50, to be revoked or cancelled at any time during the term of this Contract. The Owner may void this Contract if General Contractor fails to remain in compliance with the provisions of this section.

#### M. HEADINGS

Section, article, and paragraph headings contained within this Contract have been inserted only as a matter of convenience and for reference, and they in no way define, limit, or describe the scope or intent of any term, condition or provision of this Contract.

Village Bldg. Parking and Drainage Improvements

**N. BINDING EFFECT**

The terms, provisions and conditions of this Contract shall bind and inure to the benefit of the respective parties hereto and to their representatives, successors, and (where permitted by this Contract) their assigns.

**O. ENTIRE AGREEMENT**

This Contract represents the entire agreement between the parties, and there are no other agreements or understandings between the parties, either verbal or written, which have not been incorporated herein.

IN WITNESS WHEREOF, the parties do hereby set forth their signatures, representing that the individuals who affix their signatures hereto have been duly authorized to bind each party to the terms and conditions of the foregoing Contract:

**OWNER:**

By: \_\_\_\_\_

Print Name: Patricia A. Weiler

Title: County Administrator

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

**GENERAL CONTRACTOR:**

By: \_\_\_\_\_

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

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

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

SECTION 01 0200 – GENERAL SITEWORK REQUIREMENTS

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. The provisions of the Contract Documents apply to the work of this Section.

1.2 SITEWORK LAYOUT

A. Monuments and Benchmarks

- 1. Maintain all monuments, property corners, bench marks and other reference points.
- 2. If these are disturbed or destroyed during construction operations, have them replaced by a surveyor licensed in the Commonwealth of Virginia. This replacement shall be at no additional expense to the Contract.

B. Laying out the Work.

- 1. Locate all existing bench marks and other reference points.
- 2. Protect these points throughout construction.
- 3. Layout work utilizing these reference points.

C. Record Drawings

- 1. Maintain a record of the horizontal and vertical locations of all underground utilities and piping, both newly installed and existing encountered.
- 2. Maintain a record of any variations of the work.
- 3. Record Drawings shall be certified by a Land Surveyor registered in the Commonwealth of Virginia.
- 4. Maintain record drawings throughout construction, recording information as work is performed. Record Drawings shall be available for periodic inspection during the course of the project.
- 5. Submit final, complete record drawings at Substantial Completion.

1.3 CORRELATION OF CONSTRUCTION DOCUMENTS

- A. Review construction documents thoroughly prior to the start of construction.
- B. Report any conflict or discrepancy discovered in the Construction Documents to the Engineer prior to the start of construction.
- C. Report any conflict or discrepancy discovered between the Construction Documents and state and local governmental regulations to the Engineer prior to the start of construction.

1.4 PROJECT CONDITIONS

- A. The conditions existing at the time of inspection for bidding purposes will be maintained by the Owner to the extent practical. However, minor variations may occur due to natural occurrences prior to the start of clearing work.
- B. The location of existing underground utilities indicated is approximate only. Field locate all existing underground utilities in the area of work, regardless of whether or not they are indicated. Call “Miss Utility” prior to the start of demolition work for assistance in the location of existing underground utilities.

## SECTION 01 0200 – GENERAL SITEWORK REQUIREMENTS

- C. Should charted, uncharted or incorrectly charted utilities be encountered during demolition, contact the Engineer immediately for instructions. Cooperate with Owner and utility companies to keep services and facilities in operation.

### PART 2 - PRODUCTS

Not Applicable

### PART 3 – EXECUTION

#### 3.1 PROJECT CLEAN UP

- A. Clean site as construction progresses. Do not allow trash or other waste materials to accumulate.
- B. Prior to requesting the punch-list inspection, clean the site to the following requirements:
  - 1. Power wash all walks and pavements.
  - 2. The remainder of the site shall be broom clean.
  - 3. Remove all trash and debris.

#### 3.2 EXISTING FACILITIES

- A. Preserve existing signs, markers, guardrails, fences and other amenities in their original condition unless written permission is obtained for their removal and replacement.
- B. Replace damaged items at no additional cost to the Contract.

END OF SECTION 01 0200

## SECTION 02 4113 - SELECTIVE SITE DEMOLITION

### PART 1 - GENERAL

#### 1.1 RELATED DOCUMENTS

- A. The provisions of the Contract Documents apply to the work of this Section.

#### 1.2 SUMMARY

- A. This Section includes the following:
  - 1. Demolition and removal of existing asphalt and/or concrete pavement, concrete and/or asphalt walks, curbs and gutters, and other exterior site items indicated or not indicated which interfere with the Work.
  - 2. Removal and disposal of material from dump areas.

#### 1.3 DEFINITIONS

- A. Remove: Remove and legally dispose of items except those indicated to be reinstalled, salvaged, or to remain the Owner's property.
- B. Remove and Salvage: Items indicated to be removed and salvaged remain the Owner's property. Remove, clean, and pack or crate items to protect against damage. Identify contents of containers and deliver to Owner's designated storage area.
- C. Remove and Reinstall: Remove items indicated; clean, service, and otherwise prepare them for reuse; store and protect against damage. Reinstall items in the same locations or in locations indicated.
- D. Existing to Remain: Protect items indicated to remain against damage and soiling. When permitted by the Architect, items may be removed to a suitable, protected storage location and then cleaned and reinstalled in their original locations.

#### 1.4 MATERIALS OWNERSHIP

- A. Except for items or materials indicated to be reused, salvaged, reinstalled, or otherwise indicated to remain the Owner's property, remove demolished materials from the site with further disposition at the Contractor's option.
- B. Storage or sale of removed items or materials on-site will not be permitted.
- C. Historical items, relics, and similar objects including, but not limited to, cornerstones and their contents, commemorative plaques and tablets, antiques, and other items of interest or value to the Owner, which may be encountered, remain the Owner's property. Carefully remove and salvage each item or object in a manner to prevent damage and deliver promptly to the Owner.

#### 1.5 SUBMITTALS

- A. Proposed dust-control measures.
- B. Schedule of selective demolition activities indicating the following:
  - 1. Detailed sequence of selective demolition and removal work, with starting and ending dates for each activity.
  - 2. Detailed sequence of selective demolition and removal work to ensure uninterrupted progress of Owner's on-site operations.

## SECTION 02 4113 - SELECTIVE SITE DEMOLITION

3. Coordination of Owner's continuing occupancy of portions of existing building and of Owner's partial occupancy of completed Work.
  4. Locations of temporary partitions and means of egress.
- C. Inventory of items to be removed and salvaged or turned over to Owner.

### 1.6 QUALITY ASSURANCE

- A. Regulatory Requirements: All work shall comply with Federal, State and Local laws and regulations concerning hauling and disposal of demolition debris.
- B. Notify the proper agencies prior to the start of work and obtain all necessary permits for this work.

### 1.7 PROJECT CONDITIONS

- A. Owner assumes no responsibility for actual condition of items or structures to be demolished. Conditions existing at the time of inspection for bidding purposes will be maintained by the Owner to the extent practical. However, minor variations may occur due to Owner's removal and salvage operations prior to the start of demolition work.
- B. The location of existing underground utilities indicated is approximate only. Field locate all existing underground utilities in the area of work, regardless of whether or not they are indicated. Call "Miss Utility" prior to the start of demolition work for assistance in the location of existing underground utilities.
- C. Should charted, uncharted or incorrectly charted utilities be encountered during demolition, contact the Architect immediately for instructions. Cooperate with Owner and utility companies to keep services and facilities in operation.
- D. Do not interrupt existing utilities serving facilities occupied and used by the Owner and others, except when permitted in writing by the Owner. Provide acceptable temporary utility service as required to maintain Owner's operations.

### 1.8 SCHEDULING

- A. Owner will occupy portions of the building immediately adjacent to the Work. Conduct selective demolition so that the Owner's operations will not be disrupted. Provide not less than 72 hours notice to Owner of activities that will affect Owner's operations.
- B. Arrange selective demolition schedule so as not to interfere with Owner's on-site operations.

## PART 2 - PRODUCTS

(Not Applicable)

## SECTION 02 4113 - SELECTIVE SITE DEMOLITION

### PART 3 - EXECUTION

#### 3.1 EXAMINATION

- A. Call "Miss Utility" prior to the start of demolition work for assistance in the location of existing underground utilities. Field locate all existing underground utilities in the area of work, regardless of whether or not they are indicated.
- B. Should uncharted or incorrectly charted existing utilities be identified, contact the Engineer immediately for instructions. Provide a scale drawing with the location of the uncharted or incorrectly charted utilities for use by the Engineer in preparing additional direction.
- C. Survey existing conditions and correlate with requirements indicated to determine extent of selective demolition required.
- D. Inventory and record the condition of items to be removed and reinstalled and items to be removed and salvaged and turned over to the Owner.

#### 3.2 PROTECTION OF PERSONS AND PROPERTY

- A. Drain, purge, or otherwise remove, collect, and dispose of chemicals, gases, explosives, acids, flammables, or other dangerous materials before proceeding with selective demolition operations.
- B. Conduct demolition operations and remove debris to ensure minimum interference with roads, streets, walks and other adjacent occupied and used facilities.
  - 1. Do not close or obstruct streets, walks, or other adjacent occupied or used facilities without permission from Owner and authorities having jurisdiction. Provide alternate routes around closed or obstructed traffic ways if required by governing regulations.
- C. Conduct demolition operations to prevent injury to people and damage to adjacent buildings and facilities to remain. Ensure safe passage of people around selective demolition area.
  - 1. Erect temporary protection, such as walks, fences, railings, canopies, and covered passageways, where required by authorities having jurisdiction.
  - 2. Protect existing site improvements, appurtenances, and landscaping to remain.
- D. Barricade areas of demolition occurring as part of this work, and post with warning lights as required by authorities having jurisdiction.
- E. Protect structures, buildings, utilities, walks, pavements, existing vegetation and other facilities to remain from damage caused by settlement, lateral movement, undermining, washout and other hazards created by demolition operations.

#### 3.3 POLLUTION CONTROLS

- A. Perform all work in accordance with the requirements of the latest edition of the Virginia Erosion and Sediment Control Handbook and those of the local Erosion Control official.
- B. Clean adjacent structures and improvements of dust, dirt, and debris caused by the Work. Return adjacent areas to condition existing before start of selective demolition.

#### 3.4 DEMOLITION OF EXISTING FACILITIES

- A. Asphalt Pavement
  - 1. Remove asphalt concrete pavement by sawcutting to the full depth of the pavement. Provide neat sawcuts at the limits of pavement removal indicated.

## SECTION 02 4113 - SELECTIVE SITE DEMOLITION

### B. Concrete Pavement, Walks and Curbs

1. Remove concrete pavement and walks to the nearest joint. Sawcut concrete if joints are not present adjacent to the area of demolition.
2. Sawcut concrete along straight lines to a depth of not less than 2 inches. Break out remainder of concrete, provided that the broken area is concealed in the finished work, and the remaining concrete is sound. At locations where the broken face cannot be concealed, grind smooth or sawcut entirely through concrete.

### 3.5 DISPOSAL OF DEMOLISHED MATERIALS

- A. Promptly dispose of demolished materials. Do not allow demolished materials to accumulate on-site.
- B. Do not burn demolished materials or debris.
- C. Transport and legally dispose of demolished materials off of Owner's property.

### 3.6 CLEANUP AND REPAIR

- A. Upon completion of demolition work remove all tools, equipment and demolition materials from site. Remove demolition work area protection and leave areas clean.
- B. Repair any demolition performed in excess of that required. Return elements of construction and surfaces to remain to the condition existing prior to the start of construction. Repair adjacent construction or surfaces soiled or damaged by demolition work.

END OF SECTION 02 4113

## SECTION 31 2000 - EARTHWORK

### PART 1 - GENERAL

#### 1.1 RELATED DOCUMENTS

- A. The provisions of the Contract Documents apply to the work of this Section.

#### 1.2 SUMMARY

- A. This Section includes the following:
  - 1. Excavation, filling, backfilling, and grading indicated and necessary for proper completion of the work.

#### 1.3 SUBMITTALS

- A. VDOT approved Job Mix for stone.

#### 1.4 DEFINITIONS

- A. Excavation: Removal of all material encountered to design subgrade elevations indicated for cut areas and to subsoil elevations in fill areas. Excavation also includes subsequent respreading, moisture conditioning, compaction, and grading of satisfactory materials removed.
- B. Unauthorized Excavation: Removal of materials beyond the limits indicated in the definition of "Excavation" without specific direction of Engineer.
- C. Additional Excavation: Removal, disposal and replacement of materials beyond the limits indicated in the definition of "Excavation" at the direction of the Engineer. Refer to Part 3 of this Section for requirements of Additional Excavation.
- D. Subgrade: The undisturbed earth (in cut) or the compacted soil layer (in fill) immediately below granular subbase, drainage fill, or topsoil materials.
- E. Subsoil: The undisturbed earth immediately below the existing topsoil layer.
- F. Pavements: The area extending 10 feet beyond the exterior limits of paved areas and down to undisturbed soils at a one horizontal to one vertical slope. The area extending 3 feet beyond the exterior limits of walks and down to undisturbed soils at a one horizontal to one vertical slope.
- G. Subbase Material: Artificially graded mixture of crushed gravel or crushed stone meeting VDOT specifications. Material type is indicated on the drawings.
- H. Drainage/Porous Fill: Washed, evenly graded mixture of crushed stone, or crushed or uncrushed gravel meeting the requirements of VDOT No. 57 Stone.
- I. This Project is Unclassified.
- J. The risks of concealed, unknown, or unanticipated subsurface conditions from existing ground surface to the design subgrade elevations in cut areas and to subsoil elevations in fill areas shall be included in the Contract Amount and shall not be considered as grounds for additional costs to the Contract.
- K. The risks of concealed, unknown, or unanticipated subsurface conditions below the elevations stated above identified as additional excavation shall also be included in the Base Bid Contract amount and shall not be considered as grounds for additional cost to the Contract. The work includes the establishment of acceptable bearing conditions in both cut and fill situations.
- L. Rock Excavation: Any required rock excavation shall be included in the Base Bid Contract amount and shall not be considered as grounds for additional costs to the Contract.
- M. Time extensions will not be granted for Additional Excavation or Rock Excavation.

## SECTION 31 2000 - EARTHWORK

### 1.5 QUALITY ASSURANCE

- A. Codes and Standards: Perform excavation work in compliance with applicable requirements of authorities having jurisdiction.
- B. Environmental Compliance:
  - 1. Comply with the requirements of the latest edition of the Virginia Erosion and Sediment Control Handbook for erosion control during earthwork operations.
  - 2. Comply with the permit conditions for all work performed within wetlands.
- C. Testing and Inspection Service: Owner will employ and pay for an independent Geotechnical testing and inspection laboratory to perform soil testing and inspection service during earthwork operations. Cooperate with Owner's Geotechnical Engineer as required for testing and inspection of work. These services do not relieve the responsibility for compliance with Contract Document requirements.

### 1.6 PROJECT CONDITIONS

- A. Existing Utilities: Do not interrupt existing utilities serving facilities occupied by the Owner or others except when permitted under the following conditions and then only after arranging to provide acceptable temporary utility services.
  - 1. Notify Engineer not less than 48 hours in advance of proposed utility interruptions.
  - 2. Do not proceed with utility interruptions without receiving Architect's written permission.
  - 3. Existing utilities across or along the line of work are indicated only in an approximate location. Locate all underground lines and structures. Call "Miss Utility" at 1-800-552-7001 prior to construction. If utilities are marked that are not shown on the plans, locate utility vertically and horizontally and provide information to architect. Repair and correct any damage to underground lines and structures.

### 1.7 SAFETY

- A. Protection of Persons and Property: Barricade open excavations occurring as part of this work and post with warning lights.
  - 1. Operate warning lights as recommended by authorities having jurisdiction and governing regulations and standards.
  - 2. Protect structures, utilities, sidewalks, pavements, and other facilities from damage caused by settlement, lateral movement, undermining, washout, and other hazards created by earthwork operations.
- B. Work within the road right-of-way shall meet all requirements of the latest edition of the Virginia Department of Transportation Work Area Protection Manual.

## PART 2 - PRODUCTS

## PART 3 - EXECUTION

### 3.1 PREPARATION

- A. Protect and maintain erosion and sedimentation controls during earthwork operations.

## SECTION 31 2000 - EARTHWORK

### 3.2 DEWATERING

- A. Prevent surface water and subsurface or groundwater from flowing into excavations and from flooding project site and surrounding area.
  - 1. Do not allow water to accumulate in excavations. Remove water to prevent softening of foundation bottoms, undercutting footings, and soil changes detrimental to stability of subgrade and foundations. Provide and maintain pumps, well points, sumps, suction and discharge lines, and other dewatering system components necessary to convey water away from excavations.
  - 2. Establish and maintain temporary drainage ditches and other diversions outside excavation limits to convey rain water and water removed from excavations to collecting or runoff areas. Do not use utility trench excavations as temporary drainage ditches.
- B. Should any springs or running water be encountered in the excavation, notify the Architect and provide discharge by trenches (or other acceptable means) and drain to an appropriate point of disposal. Provide temporary drainage facilities to minimize the flow of rainwater onto adjacent property. Repair any damage to property or to subgrade as a result of construction and/or dewatering (or lack thereof) operations at no additional cost to the Contract. If permanent provision must be made for disposal of water other than as indicated, the Contract price shall be adjusted.
- C. Soils encountered may require disking, scarifying, moisture conditioning, harrowing, pulverizing or other special or careful handling when utilized as fill. No additional payment will be made for these operations.

### 3.3 EXCAVATION

- A. Excavation consists of removal, placement and disposal of material encountered when establishing required subgrade or finish grade elevations.
  - 1. Excavation includes removal and disposal of pavements and other obstructions visible on ground surface; underground structures, utilities and other items indicated to be demolished and removed; together with earth and other materials encountered that are not classified as rock or unauthorized excavation.
- B. Rock Excavation: If Rock is encountered the Owner's Geotechnical Engineer will verify that the material qualifies for classification as rock excavation.
  - 1. If rock is encountered in grading, remove to depths as follows:
    - a) Under surfaced areas, to 6" under the respective subgrade for such areas.
    - b) Under grass and planted areas - 12" minimum.
    - c) Under footings – Two feet below bottom of footing, One foot outside of perimeter of footing.
    - d) Under trenches – 6" below bottom of trench.

### 3.4 EXCAVATION FOR WALKS AND PAVEMENTS

- A. Cut surface under pavements to comply with cross-sections, elevations and grades as indicated.

### 3.5 COMPACTION OF SOIL BACKFILL AND FILLS

- A. Place backfill and fill materials in layers not more than 8 inches in loose depth for material compacted by heavy compaction equipment, and not more than 4 inches in loose depth for material compacted by hand-operated tampers.
- B. Before compaction, moisten or aerate each layer as necessary to provide optimum moisture content. Compact each layer to required percentage of maximum dry density or relative dry density for each area classification. Do not place backfill or fill material on surfaces that are muddy, frozen, or contain frost or ice.

## SECTION 31 2000 - EARTHWORK

- C. Control soil and fill compaction, providing minimum percentage of density indicated for each area classification indicated below. Correct improperly compacted areas or lifts as directed by Architect if soil density tests indicate inadequate compaction.
- D. Percentage of Maximum Density Requirements: Compact soil to not less than the following percentages of maximum density at a moisture content within 2 percentage points of optimum in accordance with ASTM D698:
  - 1. Under structures, building pad and pavements, compact each layer of backfill or fill material at 95 percent maximum density. This includes ground under future expansion areas.
  - 2. Under grass or unpaved areas, compact each layer of backfill or fill material at 90 percent maximum density.
- E. Seal all fill areas at the end of each working day, utilizing a smooth drum roller.

### 3.6 GRADING

- A. General: Rough grading of areas within the Project, including cut and fill sections and adjacent transition areas, shall be reasonably smooth, compacted and free from irregular surface changes. The degree of finish shall be that ordinarily obtainable from either blade-grader or motor patrol except as otherwise indicated. The finished subgrade surface from the grassed areas generally shall be not more than 0.2 feet above or below the final grade or approved cross section, with due allowance for topsoil.
- B. The tolerance for areas within 10 feet of building perimeter, walks and all areas to be paved shall not exceed 0.10 feet above or below the established subgrade. Finish all ditches, swales and gutters to drain readily. Unless otherwise indicated, evenly slope the subgrade to provide drainage away from building walls in all directions at a grade not less than ¼ inch per foot. Provide rounding at top and bottom of cut and fill slopes and at other breaks in grade.
- C. Protection of Graded Areas: Protect newly graded areas and areas of cut, fill and design/subgrade elevations from the actions of the elements and from deterioration as a result of construction operations and weather conditions (frost, rains, snow, sleet, hail, etc.). Repair any settlement or washing that occurs prior to or after acceptance of the work. Fill to required subgrade levels any areas where settlement occurs. Protect trees to remain, and, at all areas of the Site where construction operations are in progress, provide protection for the safety of occupants of the existing facilities.
- D. General: Uniformly grade areas to a smooth surface, free of irregular surface changes. Comply with compaction requirements and grade to cross sections, lines, and elevations indicated.
  - 1. Provide a smooth transition between adjacent existing grades and new grades.
  - 2. Cut out soft spots, fill low spots, and trim high spots to comply with required surface tolerances.

### 3.7 PAVEMENT SUBBASE COURSE:

- A. General: Place subbase material, in layers of indicated thickness, over subgrade surface to support a pavement base course.
- B. Grade Control: During construction, maintain lines and grades including crown and cross-slope of subbase course.
- C. Shoulders: Place shoulders along edges of subbase course to prevent lateral movement. Construct shoulders of acceptable soil materials, placed in such quantity to compact to thickness of each subbase course layer. Compact and roll at least at 12" width of shoulder simultaneously with compacting and rolling each layer of subbase course.
- D. Placing: Place subbase course material on prepared subgrade in layers of uniform thickness, conforming to indicated cross-section and thickness. Maintain optimum moisture content for compacting subbase material during placement operations.

## SECTION 31 2000 - EARTHWORK

- E. When a compacted subbase course is 6" thick or less, place material in a single layer. When more than 6" thick, place material in equal layers, except no single layer more than 6" or less than 3" in thickness when compacted.
- F. Place subbase course on subgrades free of mud, frost, snow, or ice.
- G. On prepared subgrade, place subbase course under pavements and walks as follows:
  - 1. Place base course material over subbase course under hot-mix asphalt pavement.
  - 2. Shape subbase course to required crown elevations and cross-slope grades.
  - 3. Place subbase course 6 inches (150 mm) or less in compacted thickness in a single layer.
  - 4. Place subbase course that exceeds 6 inches (150 mm) in compacted thickness in layers of equal thickness, with no compacted layer more than 6 inches (150 mm) thick or less than 3 inches (75 mm) thick.
  - 5. Compact subbase course at optimum moisture content to required grades, lines, cross sections, and thickness to not less than 95 percent of maximum dry unit weight according to **ASTM D 698**.
- H. Pavement Shoulders: Place shoulders along edges of subbase and base course to prevent lateral movement. Construct shoulders, at least 12 inches (300 mm) wide, of satisfactory soil materials and compact simultaneously with each subbase and base layer to not less than 95 percent of maximum dry unit weight according to **ASTM D 698**.

### 3.8 FIELD QUALITY CONTROL

- A. The Owner's Geotechnical Engineer will submit two (2) copies each of his reports, recommendations and/or opinions to the Architect/Engineer and the Owner. Pertinent information will be provided to the Contractor as required.

### 3.9 EROSION CONTROL:

- A. Provide erosion control methods in accordance with requirements of authorities having jurisdiction, the Virginia Erosion and Sediment Control Handbook, and as indicated in the Contract Documents.

### 3.10 PROTECTION

- A. Repair and reestablish grades in settled, eroded, and rutted areas to indicated tolerances.
- B. Reconditioning Compacted Areas: Where subsequent construction operations or adverse weather disturbs completed compacted areas, scarify surface, reshape, and compact to required density prior to further construction.

### 3.11 DISPOSAL OF WASTE MATERIALS

- A. Removal from Owner's Property: Remove excess and/or waste materials, including trash and debris, and dispose of it off Owner's property in a legal manner.
- B. Dispose of excess material and materials not acceptable for use as backfill or fill legally offsite.
- C. Do not remove topsoil from site until it has been demonstrated to the Owner's satisfaction that it is excess.

END OF SECTION 31 2000

## SECTION 31 2500 - EROSION CONTROL

### PART 1 - GENERAL

#### 1.1 RELATED DOCUMENTS:

- A. The provisions of the Contract Documents apply to the work of this Section.
- B. The Virginia Erosion and Sediment Control Handbook, latest edition.

#### 1.2 SUMMARY

- A. This Section includes the installation, maintenance and removal of erosion control measures required for prevention of sediment leaving the project site.

#### 1.3 EROSION AND SEDIMENT CONTROL PERMIT

- A. Prior to commencement of work, obtain a copy of the approved Erosion and Sediment Control Plan from the Local Gov't Approval Agency.
- B. Apply for the Land Disturbance Permit from the Local Gov't Approval Agency.
- C. Post Erosion and Sediment Control Bond with the Local Gov't Approval Agency.
- D. Schedule a pre-construction conference on-site with the Architect and Local Gov't Environmental Inspector. Hold this meeting prior to the start of any construction activities.

#### 1.4 PAYMENT PROCEDURES FOR EROSION CONTROL MEASURES

- A. Establish a line item in the Schedule of Values for Erosion Control Maintenance. This line item shall represent a minimum of thirty percent (30%) of the total value of the erosion control for the project.
- B. Erosion control maintenance will be paid on a monthly basis, following the satisfactory installation and maintenance of the erosion control measures.

### PART 2 - PRODUCTS

#### 2.1 EROSION CONTROL PRODUCTS:

- A. Safety Fence
  - 1. Six foot high chain link fence, complying with the requirements of Standard and Specification 3.01 of the Virginia Erosion and Sediment Control Handbook.
  - 2. Post appropriate warning signs along the Safety Fence.
- B. Construction Entrance
  - 1. Heavy-duty stone aggregate and filter fabric construction entrance, complying with the requirements of Standard and Specification 3.02 of the Virginia Erosion and Sediment Control Handbook.
  - 2. Reinforced concrete wash-rack, draining to a sediment trap.
  - 3. The water source for washing operations shall be the responsibility of the Contractor.
- C. Silt Fence
  - 1. Synthetic filter fabric, complying with the requirements of Standard and Specification 3.05 of the Virginia Erosion and Sediment Control Handbook.

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2. Wooden stakes shall be 2" oak, a minimum length of five feet.
- D. Storm Drain Inlet Protection
1. Block and Gravel Drop Inlet Sediment Filter, complying with the requirements of Standard and Specification 3.07 of the Virginia Erosion and Sediment Control Handbook.
  2. Gravel Curb Inlet Sediment Filter complying with the requirements of Standard and Specification 3.07 of the Virginia Erosion and Sediment Control Handbook.
- E. Culvert Inlet Protection
1. Silt Fence Culvert Inlet Protection complying with the requirements of Standard and Specification 3.08 of the Virginia Erosion and Sediment Control Handbook.
- F. Outlet Protection
1. A level area of riprap, placed over filter fabric, complying with the requirements of Standard and Specification 3.18 of the Virginia Erosion and Sediment Control Handbook.
- G. Riprap
1. Graded stone, placed over filter fabric, complying with the requirements of Standard and Specification 3.19 of the Virginia Erosion and Sediment Control Handbook.
  2. The size of the stone required is indicated on the drawings.
- H. Temporary Seeding
1. Temporary vegetative cover for disturbed areas, complying with the requirements of Standard and Specification 3.31 of the Virginia Erosion and Sediment Control Handbook.
- I. Permanent Seeding
1. Refer to Section "Lawns and Grasses" for permanent seeding requirements.
- J. Soil Stabilization Blanket
1. Biodegradable stabilization blanket, complying with the requirements of Standard and Specification 3.36 of the Virginia Erosion and Sediment Control Handbook.
  2. In lieu of plastic netting use East Coast Erosion Blankets (biodegradable single straw) or approved equal.

### PART 3 - EXECUTION

#### 3.1 INSTALLATION OF EROSION CONTROL MEASURES

- A. Install all erosion and sediment control measures per the requirements of the Virginia Erosion and Sediment Control Handbook.
- B. Protect all points of construction ingress and egress to the site to prevent tracking of mud onto public streets. Provide temporary construction entrances at all points of access to the site.
- C. Clear only those areas necessary for installation of the perimeter erosion control measures. The balance of the site shall not be cleared or otherwise disturbed until the perimeter erosion control measures are installed, functional and approved by the Local Gov't Environmental Inspector.
- D. Follow the construction sequence and install erosion control measures as indicated on the Drawings and as directed by the Local Gov't Environmental Inspector.
- E. Install additional measures as necessary to prevent sediment from leaving the project site.

## SECTION 31 2500 - EROSION CONTROL

### 3.2 MAINTENANCE OF EROSION CONTROL MEASURES

- A. Maintain all erosion and sediment control measures per the requirements of the Virginia Erosion and Sediment Control Handbook.
- B. At a minimum, the following maintenance is required:
  - 1. Safety Fence
    - a) Review fence regularly for damage. Repair any damage immediately.
    - b) Secure the fence at the end of each working day. Repair or replace all locking devices as necessary.
  - 2. Construction Entrance
    - a) Wash and rework stone and/or place additional stone as required to prevent tracking of mud onto the roadways.
    - b) Clean out the sediment-trapping device for the washrack.
    - c) Remove all materials spilled, dropped, washed or otherwise tracked onto roadways or into storm sewers immediately. Do not use water trucks to wash the roadways.
  - 3. Silt Fence
    - a) Inspect immediately following each rainfall and at least daily during prolonged rainfall.
    - b) Make any required repairs immediately. Give special attention to damage resulting from end-runs and undercutting.
    - c) Replace fabric that is decomposing or is otherwise ineffective.
    - d) Clean out accumulated sediment following every storm event. Do not allow sediment to accumulate higher than one-half the height of the barrier.
  - 4. Storm Drain Inlet Protection
    - a) Inspect immediately following each rainfall and at least daily during prolonged rainfall.
    - b) Remove and clean or replace stone filters that have been clogged with sediment. Make any required repairs immediately
    - c) Remove accumulated sediment as required. Do not allow sediment to accumulate higher than one-half the height of the measure.
  - 5. Culvert Inlet Protection
    - a) Inspect immediately following each rainfall and at least daily during prolonged rainfall.
    - b) Remove and clean or replace stone filters that have been clogged with sediment. Make any required repairs immediately
    - c) Remove accumulated sediment as required. Do not allow sediment to accumulate higher than one-half the height of the measure.
    - d) Inspect diversion following every rainfall and at least once every two weeks.
    - e) Remove accumulated sediment and make repairs as necessary.
    - f) Re-seed as necessary to maintain vegetative cover.
  - 6. Outlet Protection
    - a) Inspect outlet protection following every storm event. Re-lay riprap as necessary to prevent concentrated flow from running across the outlet protection.

## SECTION 31 2500 - EROSION CONTROL

### 7. Riprap

- a) Inspect riprap following every storm event. Re-lay riprap as necessary to prevent concentrated flow from running under or around the riprap.
- b) Clean out accumulated sediment from the riprap.

### 8. Temporary Seeding

- a) Re-seed and mulch areas where cover is inadequate to protect against erosion until adequate cover is obtained.
- C. Remove accumulated sediment as required and at appropriate intervals to maintain the effective function of all erosion control measures.
- D. Inspect, repair and remove accumulated sediment from erosion control measures following significant (greater than ½”) rainfall events.
- E. If erosion control measures become clogged, causing the impoundment of water, restore the measures immediately. Pounded water poses a potential drowning hazard and shall be relieved immediately by either pumping (through an approved dewatering structure) or by removal of the blockage.

### 3.3 REMOVAL OF EROSION CONTROL MEASURES

- A. Remove all temporary erosion control measures following the stabilization of the site. Do not remove erosion control measures until authorized by the Local Gov't Environmental Inspector.
- B. Topsoil, permanently seed and stabilize areas occupied by erosion control measures.

END OF SECTION 31 2500

## SECTION 32 1216 - ASPHALT PAVEMENT

### PART 1 - GENERAL

#### 1.1 RELATED DOCUMENTS

- A. The provisions of the Contract Documents apply to the work of this Section.

#### 1.2 SUMMARY

- A. This Section includes the following:
  - 1. Hot-mix asphalt paving over prepared subbase.
  - 2. Hot –mix asphalt patching.
  - 3. Hot-mix asphalt overlays.
  - 4. Asphalt surface treatments
    - a) Coal tar sealant

#### 1.3 SUBMITTALS

- A. Job-Mix Designs: Certification, by authorities having jurisdiction, of approval of each job mix proposed for the Work.
- B. Material Certification: Certification signed by Contractor certifying that each material complies with requirements.

#### 1.4 QUALITY ASSURANCE

- A. Installer Qualifications: Engage an experienced installer who has completed hot-mix asphalt paving similar in material, design, and extent to that indicated for this Project and with a record of successful in-service performance.
- B. Asphalt paving materials and installation shall conform to the requirements of the latest edition of the Virginia Department of Transportation (VDOT) Road and Bridge Specifications and Road and Bridge Standards.

#### 1.5 PROJECT CONDITIONS

- A. Environmental Limitations: Do not apply asphalt materials if substrate is wet or excessively damp or if the following conditions are not met:
  - 1. Prime and Tack Coats: Minimum ambient temperature of 50 deg F (10 deg C), and when temperature has not been below 35 deg F (1 deg C) for 12 hours immediately prior to application.
  - 2. Asphalt Base Course: Minimum surface temperature of 40 deg F (4 deg C) and rising at time of placement.
  - 3. Asphalt Surface Course: Minimum surface temperature of 40 deg F (4 deg C) and rising at time of placement.

#### 1.6 TESTING AND INSPECTION

- A. The Owner's testing agency will observe the asphalt placement in the parking lots and on-site areas not in Right-of-Way.

## SECTION 32 1216 - ASPHALT PAVEMENT

### PART 2 - PRODUCTS

#### 2.1 ASPHALT-AGGREGATE MIXTURE

- A. General: Provide plant-mixed, hot-laid asphalt-aggregate mixture complying with the requirements of the VDOT Road and Bridge Specifications and as recommended by local paving authorities to suit project conditions.

#### 2.2 ASPHALT MATERIALS

- A. Tack Coat: ASTM D 977, emulsified asphalt or ASTM D 2397, cationic emulsified asphalt, slow setting, factory diluted in water, of suitable grade and consistency for application.
- B. Prime Coat: Asphalt emulsion prime conforming to VDOT requirements.

#### 2.3 AUXILIARY MATERIALS

- A. Paving Geotextile: Nonwoven polypropylene, specifically designed for paving applications, resistant to chemical attack, rot, and mildew.

### PART 3 - EXECUTION

#### 3.1 EXAMINATION

- A. Verify that subgrade is dry and in suitable condition to support paving and imposed loads.
- B. Proof-roll subbase using heavy, pneumatic-tired rollers to locate areas that are unstable or that require further compaction.
- C. Notify Engineer in writing of any unsatisfactory conditions. Do not begin paving installation until these conditions have been satisfactorily corrected.

#### 3.2 PATCHING AND REPAIRS

- A. Patching: Saw cut perimeter of patch and excavate existing pavement section to sound base. Recompact new subgrade. Excavate rectangular or trapezoidal patches, extending 12 inches (300 mm) into adjacent sound pavement, unless otherwise indicated. Cut excavation faces vertically.
  - 1. Tack coat faces of excavation and allow to cure before paving.
  - 2. Fill excavation with dense-graded, hot-mix asphalt base mix and, while still hot, compact flush with adjacent surface.
- B. Leveling Course: Install and compact leveling course consisting of dense-graded, hot-mix asphalt surface course to level sags and fill depressions deeper than 1 inch (25 mm) in existing pavements.
  - 1. Install leveling wedges in compacted lifts not exceeding 3 inches (75 mm) thick.
- C. Crack and Joint Filling: Remove existing filler material from cracks or joints to a depth of 1/4 inch (6 mm). Refill with asphalt joint-filling material to restore watertight condition. Remove excess filler that has accumulated near cracks or joints.

## SECTION 32 1216 - ASPHALT PAVEMENT

- D. Tack Coat: Apply uniformly to existing surfaces of previously constructed asphalt or Portland cement concrete paving and to surfaces abutting or projecting into new, hot-mix asphalt pavement. Apply at a uniform rate of 0.05 to 0.15 gal./sq. yd. (0.2 to 0.7 L/sq. m) of surface.
1. Allow tack coat to cure undisturbed before paving.
  2. Avoid smearing or staining adjoining surfaces, appurtenances, and surroundings. Remove spillage and clean affected surfaces.

### 3.3 SURFACE PREPARATION

- A. General: Immediately before placing asphalt materials, remove loose and deleterious material from substrate surfaces. Ensure that prepared subgrade is ready to receive paving.
- B. Sweep loose granular particles from surface of unbound-aggregate base course. Do not dislodge or disturb aggregate embedded in compacted surface of base course.
- C. Prime Coat: For asphalt sections less than 4" thick, apply uniformly over surface of compacted-aggregate base at a rate of 0.15 to 0.50 gal./sq. yd. (0.7 to 2.3 L/sq. m). Apply enough material to penetrate and seal, but not flood, surface. Allow prime coat to cure for 24 hours minimum.
1. If prime coat is not entirely absorbed within 24 hours after application, spread sand over surface to blot excess asphalt. Use just enough sand to prevent pickup under traffic. Remove loose sand by sweeping before pavement is placed and after volatiles have evaporated.
  2. Protect primed substrate from damage until ready to receive paving.

### 3.4 HOT-MIX ASPHALT PLACING

- A. Machine place hot-mix asphalt mix on prepared surface, spread uniformly, and strike off. Place asphalt mix by hand to areas inaccessible to equipment in a manner that prevents segregation of mix. Place each course to required grade, cross section, and thickness, when compacted.
1. Place hot-mix asphalt base course in number of lifts and thickness indicated.
  2. Spread mix at minimum temperature of 225 deg F (107 deg C).
- B. Place paving in consecutive strips not less than 10 feet (3 m) wide, except where infill edge strips of a lesser width are required.
1. After first strip has been placed and rolled, place succeeding strips and extend rolling to overlap previous strips. Complete asphalt base course for a section before placing intermediate or surface courses.
- C. Promptly correct surface irregularities in paving course behind paver. Use suitable hand tools to remove excess material forming high spots. Fill depressions with hot-mix asphalt to prevent segregation of mix; use suitable hand tools to smooth surface.

### 3.5 JOINTS

- A. Construct joints between old and new pavement, or between successive days work, to ensure continuous bond between adjoining paving sections. Construct joints free of depressions with same texture and smoothness as other sections of hot-mix asphalt course.
1. Clean contact surfaces and apply tack coat.
  2. Offset longitudinal joints in successive courses a minimum of 6 inches (150 mm).
  3. Offset transverse joints in successive courses a minimum of 24 inches (600 mm).
  4. Construct transverse joints as required by the VDOT Road and Bridge Specifications.

## SECTION 32 1216 - ASPHALT PAVEMENT

5. Compact joints as soon as hot-mix asphalt will bear roller weight without excessive displacement.

### 3.6 COMPACTION

- A. General: Begin compaction as soon as placed hot-mix paving will bear roller weight without excessive displacement. Compact hot-mix paving with hot, hand tampers or vibratory-plate compactors in areas inaccessible to rollers.
  1. Complete compaction before mix temperature cools to 185 deg F (85 deg C).
- B. Breakdown Rolling: Accomplish breakdown or initial rolling immediately after rolling joints and outside edge. Examine surface immediately after breakdown rolling for indicated crown, grade, and smoothness. Repair surfaces by loosening displaced material, filling with hot-mix asphalt, and rerolling to required elevations.
- C. Intermediate Rolling: Begin intermediate rolling immediately after breakdown rolling, while hot-mix asphalt is still hot enough to achieve indicated density. Continue rolling until hot-mix asphalt course has been uniformly compacted to the following density:
  1. Average Density: 95 percent of reference laboratory density according to ASTM D 1559.
- D. Finish Rolling: Finish roll paved surfaces to remove roller marks while hot-mix asphalt is still warm. Surface course average density shall be 95 percent of reference laboratory density.
- E. Edge Shaping: While surface is being compacted and finished, trim edges of pavement to proper alignment. Bevel edges while still hot, with back of rake or smooth iron. Compact thoroughly using tamper or other satisfactory method. Edges adjacent to curbs and curb and gutter sections shall be flush with the edge of concrete.
- F. Repairs: Remove paved areas that are defective or contaminated with foreign materials. Remove paving course over area affected and replace with fresh, hot-mix asphalt. Compact by rolling to specified density and surface smoothness.
- G. Protection: After final rolling, do not permit vehicular traffic on pavement until it has cooled and hardened.
- H. Erect barricades to protect paving from traffic until mixture has cooled enough not to become marked.

### 3.7 INSTALLATION TOLERANCES

- A. Thickness: Compact each course to produce the thickness indicated within the following tolerances:
  1. Base Course: Plus or minus 1/2 inch (13 mm).
  2. Surface Course: Plus 1/4 inch (6 mm), no minus.
- B. Surface Smoothness: Compact each course to produce a surface smoothness within the following tolerances as determined by using a 10-foot (3-m) straightedge applied transversely or longitudinally to paved areas:
  1. Base Course: 1/4 inch (6 mm).
  2. Surface Course: 3/16 inch (3 mm).
  3. Crowned Surfaces: Test with crowned template centered and at right angle to crown. Maximum allowable variance from template is 1/4 inch (6 mm).
- C. Check surface areas at intervals as directed by Architect.

SECTION 32 1216 - ASPHALT PAVEMENT

3.8 FIELD QUALITY CONTROL

- A. Testing Agency: Owner will engage a qualified independent testing agency to perform field inspections and tests and to prepare test reports.
  - 1. Testing agency will conduct and interpret tests and state in each report whether tested Work complies with or deviates from requirements.
- B. Additional testing, at Contractor's expense, will be performed to determine compliance of corrected Work with requirements.
- C. Remove and replace or install additional hot-mix asphalt where test results or measurements indicate that it does not comply with requirements.

END OF SECTION 32 1216

## SECTION 32 1313 - SITE CONCRETE

### PART 1 - GENERAL

#### 1.1 RELATED DOCUMENTS

- A. The provisions of the Contract Documents apply to the work of this Section.

#### 1.2 DESCRIPTION OF WORK:

- A. Extent of Portland cement concrete paving is shown on drawings, including:
  - 1. Curbs and gutters
  - 2. Walkways

#### 1.3 SUBMITTALS

- A. Job-Mix Designs: Certification, by authorities having jurisdiction, of approval of each job mix proposed for the Work.
- B. Material Certification: Certification signed by Contractor certifying that each material complies with requirements.

#### 1.4 JOB CONDITIONS

- A. Traffic Control: Maintain access for vehicular and pedestrian traffic as required for other construction activities.

### PART 2 - PRODUCTS

#### 2.1 MATERIALS

- A. Forms: Steel, wood, or other suitable material of size and strength to resist movement during concrete placement and to retain horizontal and vertical alignment until removal. Use straight forms, free of distortion and defects.
  - 1. Use flexible spring steel forms or laminated boards to form radius bends as required.
  - 2. Coat forms with a nonstaining form release agent that will not discolor or deface surface of concrete.
- B. Welded Wire Mesh: Welded plain cold-drawn steel wire fabric, ASTM A 185.
- C. Reinforcing Steel: ASTM A 615, Grade 60, deformed
- D. Concrete Materials: Comply with requirements of applicable Division 3 sections for concrete materials, admixtures, bonding materials, curing materials, and others as required.
- E. Expansion Joint Materials: Comply with requirements of applicable Division 7 sections for preformed expansion joint fillers and sealers.
- F. Antispalling Compound: Combination of boiled linseed oil and mineral spirits, complying with AASHTO M-233.
- G. Liquid-Membrane Forming and Sealing Curing Compound: Comply with VDOT Road and Bridge Specifications.

## SECTION 32 1313 - SITE CONCRETE

### 2.2 CONCRETE MIX, DESIGN, AND TESTING

- A. Comply with requirements of applicable Division 3 sections for concrete mix design, sampling and testing, and quality control or VDOT Road and Bridge Specifications whichever is more stringent.
- B. Design mix to produce normal-weight concrete consisting of Portland cement, aggregate, water-reducing or high-range water-reducing admixture (superplasticizer), air-entraining admixture, and water to produce the following properties:
  - 1. Comply with the requirements of VDOT Std. Class A3 Concrete, unless otherwise indicated.

## PART 3 - EXECUTION

### 3.1 SURFACE PREPARATION

- A. Remove loose material from compacted subbase surface immediately before placing concrete.
- B. Proof-roll prepared subbase surface to check for unstable areas and need for additional compaction. Do not begin paving work until such conditions have been corrected and are ready to receive paving,

### 3.2 FORM CONSTRUCTION

- A. Set forms to required grades and lines, braced and secured. Install forms to allow continuous progress of work and so that forms can remain in place at least 24 hours after concrete placement.
- B. Check completed formwork for grade and alignment to following tolerances:
  - 1. Top of forms not more than 1/8 inch in 10 feet.
  - 2. Vertical face on longitudinal axis, not more than 1/4 inches in 10 feet.
- C. Clean forms after each use and coat with form release agent as required to ensure separation from concrete without damage.

### 3.3 REINFORCEMENT

- A. Locate, place and support reinforcement as specified in Division 3 sections, unless otherwise indicated.

### 3.4 CONCRETE PLACEMENT

- A. General: Comply with requirements of applicable Division 3 sections for mixing and placing concrete or VDOT Road and Bridge Specifications whichever is more stringent.
- B. Do not place concrete until subbase and forms have been checked for line and grade. Moisten subbase if required to provide a uniform dampened condition at time concrete is placed. Do not place concrete around manholes or other structures until they are at required finish elevation and alignment.
- C. Place concrete by methods that prevent segregation of mix. Consolidate concrete along face of forms and adjacent to transverse joints with internal vibrator. Keep vibrator away from joint assemblies, reinforcement, or side forms. Use only square-faced shovels for hand spreading and consolidation. Consolidate with care to prevent dislocation of reinforcing, dowels, and joint devices.
- D. Deposit and spread concrete in a continuous operation between transverse joints as far as possible. If interrupted for more than 1/2 hour, place a construction joint.
- E. Fabricated Bar Mats: Keep mats clean and free from excessive rust, and handle units to keep them flat and free of distortions. Straighten bends, kinks, and other irregularities or replace units as required before placement. Set mats for a minimum 2-inch overlap to adjacent mats.

## SECTION 32 1313 - SITE CONCRETE

- F. Place concrete in 2 operations; strike off initial pour for entire width of placement and to the required depth below finish surface. Lay fabricated bar mats immediately in final position. Place top layer of concrete, strike off, and screed.
- G. Remove and replace portions of bottom layer of concrete that have been placed more than 15 minutes without being covered by top layer or use bonding agent if acceptable to Architect.
- H. Curbs and Gutters: Automatic machine may be used for curb and gutter placement. If machine placement is to be used, submit revised mix design and laboratory test results that meet or exceed minimums indicated. Machine placement must produce curbs and gutters to required cross-section, lines, grades, finish, and jointing as indicated for formed concrete. If results are not acceptable, remove and replace with formed concrete meeting requirements.

### 3.5 JOINTS

- A. General: Construct expansion, weakened-plane (contraction), and construction joints true to line with face perpendicular to surface of concrete. Construct transverse joints at right angles to the centerline, unless otherwise indicated.
- B. Weakened-Plane (Contraction) Joints: Provide weakened-plane (contraction) joints, sectioning concrete into areas as shown on drawings. Construct weakened-plane joints for a depth equal to at least 1/4 concrete thickness, as follows:
  - 1. Tooled Joints: Form weakened-plane joints in fresh concrete by grooving top portion with a recommended cutting tool and finishing edges with a jointer.
  - 2. Sawed Joints: Form weakened-plane joints with powered saws equipped with shatterproof abrasive or diamond-rimmed blades. Cut joints into hardened concrete as soon as surface will not be torn, abraded, or otherwise damaged by cutting action.
  - 3. Inserts: Use embedded strips of metal or sealed wood to form weakened-plane joints. Set strips into plastic concrete and carefully remove strips after concrete has hardened.
- C. Construction Joints: Place construction joints at end of placements and at locations where placement operations are stopped for more than 1/2 hour, except where such placements terminate at expansion joints.
  - 1. Construct joints as indicated or, if not indicated, use standard metal keyway-section forms.
- D. Expansion Joints: Provide premolded joint filler for expansion joints abutting concrete curbs, catch basins, manholes, inlets, structures, walks, and other fixed objects, unless otherwise indicated.
- E. Locate expansion joints at 50 feet o.c. for each pavement lane unless otherwise indicated.
- F. Extend joint fillers full width and depth of joint, not less than 1/2 inch or more than 1 inch below finished surface where joint sealer is indicated. If no joint sealer, place top of joint filler flush with finished concrete surface.
- G. Provide joint fillers in one-piece lengths for full width being placed wherever possible. Where more than one length is required, lace or clip joint filler sections together.
- H. Protect top edge of joint filler during concrete placement with a metal cap or other temporary material. Remove protection after concrete has been placed on both sides of joint.
- I. Fillers and Sealants: Comply with requirements of applicable Division 7 sections for preparation of joints, materials, installation, and performance.
- J. Refer to Drawings for scoring patterns for:
  - 1. Selected sidewalk areas

## SECTION 32 1313 - SITE CONCRETE

### 3.6 CONCRETE FINISHING

- A. After striking-off and consolidating concrete, smooth surface by screeding and floating. Use hand methods only where mechanical floating is not possible. Adjust floating to compact surface and produce uniform texture.
- B. After floating, test surface for trueness with a 10-ft. straightedge. Distribute concrete as required to remove surface irregularities, and refloat repaired areas to provide a continuous smooth finish.
- C. Work edges of slabs, gutters, back top edge of curb, and formed joints with an edging tool, and round to 1/2-inch radius, unless otherwise indicated. Eliminate tool marks on concrete surface.
- D. After completion of floating and when excess moisture or surface sheen has disappeared, complete troweling and finish surface as follows:
  - 1. Broom finish by drawing a fine-hair broom across concrete surface perpendicular to line of traffic. Repeat operation if required to provide a fine line texture acceptable to Architect.
  - 2. Exposed-Aggregate Finish: At handicap ramps and where indicated on drawings, by applying an approved retardant curing compound to the surface. Allow minimum 12 hours of setting time before washing surface to expose a maximum of (1/3) one-third of stone surface. Aggregate shall be brown Riverstone having a uniform size and color for each subsequent concrete pour. Aggregate size shall range between 1/2" and 3/4".
- E. Do not remove forms for 24 hours after concrete has been placed. After form removal, clean ends of joints and point-up any minor honeycombed areas. Remove and replace areas or sections with major defects, as directed by Architect.

### 3.7 CURING

- A. Protect and cure finished concrete paving in compliance with applicable requirements of Division 3 sections. Use membrane-forming curing and sealing compound or approved moist-curing methods.

### 3.8 REPAIRS AND PROTECTIONS

- A. Repair or replace cracked, broken or defective concrete curbs and curb and gutter, as directed by Architect.
- B. Replace cracked, broken or defective concrete sidewalks.
- C. Repair or replace cracked, broken or defective concrete pavement, as directed by Architect.
- D. Drill test cores where directed by Architect when necessary to determine magnitude of cracks or defective areas. Fill drilled core holes in satisfactory pavement areas with Portland cement concrete bonded to pavement with epoxy adhesive.
- E. Protect concrete from damage until acceptance of work. Exclude traffic from pavement for at least 14 days after placement. When construction traffic is permitted, maintain pavement as clean as possible by removing surface stains and spillage of materials as they occur.
- F. Sweep concrete pavement and wash free of stains, discolorations, dirt, and other foreign material just before final inspection.

END OF SECTION 32 1313

## SECTION 32 1700 - PAVEMENT MARKINGS, SIGNS AND SPECIALTIES

### PART 1 - GENERAL

#### 1.1 RELATED DOCUMENTS

- A. The provisions of the Contract Documents apply to the work of this Section.

#### 1.2 SUMMARY

- A. This Section includes, but is not limited to, the following:
  - 1. Establishing the location of pavement markings and applying pavement markings for parking space lines, traffic control, fire lane and accessible spaces.
  - 2. Installation of signs for traffic control and accessible spaces.
  - 3. Installation of wheel stops at parking spaces.

#### 1.3 QUALITY ASSURANCE

- A. All work and materials shall conform to the requirements of the latest edition of the Virginia Department of Transportation (VDOT) Road and Bridge Specifications and Road and Bridge Standards.
- B. All materials for signs shall conform to the requirements of the latest edition of the Virginia Department of Transportation (VDOT) Road and Bridge Specifications and Road and Bridge Standards and to the requirements of the latest edition of the Manual of Uniform Traffic Control Devices for traffic signs.
- C. Installer Qualifications: Engage an experienced installer, who has successfully completed striping and signage projects similar in size and complexity to this project. The installer's primary business (defined as a minimum of 60% of total billings) shall be striping and signage.

#### 1.4 SUBMITTALS

- A. Product Data and written confirmation that the following materials are included on VDOT's list of approved construction materials:
  - 1. Pavement marking paint
  - 2. Wheel stops
  - 3. Signs
  - 4. Posts

### PART 2 - PRODUCTS

#### 2.1 PAVEMENT MARKING PAINT

- A. Paint shall be Type A, water emulsion base, traffic paint conforming to the requirements of Section 704 of the VDOT Road and Bridge Specifications and Federal Specification TT-P-1952. Color shall be white unless otherwise indicated.
- B. Curb painting color along fire lanes shall be yellow, unless otherwise indicated.

## SECTION 32 1700 - PAVEMENT MARKINGS, SIGNS AND SPECIALTIES

### 2.2 PAINT APPLICATOR

- A. Provide hand-operated push-type applicator machine of a type commonly used for application of paint to pavement surfaces. Paint applicator machine shall be acceptable for marking small street and parking areas. Applicator machine shall be equipped with the necessary paint tanks and spraying nozzles, and shall be capable of applying paint uniformly at coverage specified.

### 2.3 WHEEL STOPS

- A. Wheel stops shall be made of 3,000 psi precast concrete and be 6 inches high, 8 inches wide and approximately 6 feet long. Provide chamfered corners and edges and two holes for anchoring.

### 2.4 SIGNS AND POSTS

- A. Signs shall conform to the requirements of Section 701 of the VDOT Road and Bridge Specifications. Signs shall be fabricated with encapsulated lens sheeting.
- B. Signposts for traffic control signage shall be 4" x 4" treated wood conforming to the requirements of Section 236 of the VDOT Road and Bridge Specifications.
- C. Utilize metal posts for fire-lane signage and for signage at accessible parking spaces.

### 2.5 CONCRETE

- A. Concrete shall be Class A3, General concrete, conforming to the requirements of Section 217 of the VDOT Road and Bridge Specifications.

## PART 3 - EXECUTION

### 3.1 SURFACE PREPARATION FOR PAVEMENT MARKING

- A. Apply pavement markings only when the ambient temperatures is above 50°F and less than 95°F, unless otherwise approved.
- B. Allow pavement to cure for a period of not less than 7 days before applying pavement marking.
- C. Clean surfaces thoroughly before application of paint. Remove, dust, dirt and other granular surface deposits by sweeping, blowing with compressed air, rinsing with water, or a combination of these methods as required.
- D. Remove existing pavement markings, residual curing compounds and other coating adhering to the pavement with scrapers, wire brushes, waterblasting, sandblasting or mechanical abrasion as required. Areas of existing pavement affected by oil or grease shall be scrubbed with an approved chemical and rinsed thoroughly. Seal oil soaked areas with shellac or primer after cleaning.
- E. Pavement surfaces shall be dry and clean prior to painting. Pavement markings shall not be applied within 24 hours following rain or other inclement weather or when rain is imminent.

### 3.2 APPLICATION OF PAVEMENT MARKING

- A. Apply paint in accordance with the requirements of Section 704 of the VDOT Road and Bridge Specifications.
- B. Lay out lines and markings to the width and length as indicated. All parking space lines shall be 4 inches wide.
- C. Apply paint with an approved paint applicator.

## SECTION 32 1700 - PAVEMENT MARKINGS, SIGNS AND SPECIALTIES

- D. Apply paint at manufacturer recommended rates to provide a minimum 15 mil wet thickness (depending on manufacturer, may require 2 applications).

### 3.3 FIRE LANE MARKINGS AND SIGNAGE

- A. Mark fire lanes and install fire lane signage in accordance with the requirements of the local Fire Marshall and as indicated on the drawings.

### 3.4 INSTALLATION OF WHEEL STOPS

- A. Secure wheel stops with two 1/2-inch diameter steel reinforcing rods. Rods shall be a minimum of 18 inches in length and be embedded into the pavement, base and subgrade a minimum of 12 inches and be flush with the top of the bumper block.

### 3.5 INSTALLATION OF SIGNS

- A. Install signs on signposts in accordance with the requirements of Section 701 of the VDOT Road and Bridge Specifications.
- B. Install signposts in concrete foundation to a depth of 3 feet minimum by 12 inches in diameter.

END OF SECTION 32 1700

## SECTION 32 9200 - LAWNS AND GRASSES

### PART 1 - GENERAL

#### 1.1 RELATED DOCUMENTS

- A. The provisions of the Contract Documents apply to the work of this Section.

#### 1.2 SUMMARY

- A. This Section includes the following:
  - 1. Fine grading and preparing lawn areas (including courtyards)
  - 2. Topsoil Placement
  - 3. Soil amendments
  - 4. Fertilizers
  - 5. Seeding

#### 1.3 DEFINITIONS

- A. Finish Grade: Elevation of finished surface of planting soil.
- B. Lawns: All areas disturbed by construction and not otherwise covered by paving, buildings or other structures.

#### 1.4 SUBMITTALS

- A. Certification by product manufacturer that the following products supplied comply with requirements:
  - 1. Grass Seed
    - a) Certification of grass seed from seed vendor for each grass-seed mixture stating the botanical and common name and percentage by weight of each species and variety, and percentage of purity, germination, and weed seed. Include the year of production and date of packaging.
    - b) Blue Tag Certification tag for each bag of seed.
- B. Installers qualifications
  - 1. Provide a list, with references, of the past three projects of a similar magnitude.
- C. Topsoil Amendment Plan.
  - 1. Provide copy of topsoil testing report.
  - 2. List of amendments proposed for topsoil, including application rates.

#### 1.5 QUALITY ASSURANCE

- A. Installer Qualifications: Engage an experienced installer, who has successfully completed lawn establishment projects similar in size and complexity to this project. The installer's primary business (defined as a minimum of 60% of total billings) shall be establishment of lawns.

#### 1.6 DELIVERY, STORAGE, AND HANDLING

- A. Seed: Deliver seed in original sealed, labeled, and undamaged containers.

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### 1.7 COORDINATION AND SCHEDULING

- A. Planting Season: Sow lawn seed during normal planting seasons for type of lawn work required.
  - 1. Spring Planting Season: March 15 through May 15
  - 2. Fall Planting Season: September 15 through November 15
- B. Weather Limitations: Proceed with planting only when existing and forecast weather conditions are suitable for work.
- C. Lawn Seeding Schedule
  - 1. Refer to the drawings for early seeding requirements for specified lawn areas.
  - 2. If job completion schedule does not allow seeding within a normal planting season, provide interim temporary seeding necessary to stabilize site. Complete permanent seeding during the next planting season.

### 1.8 LIMITS OF SEEDING

- A. Spread topsoil and seed all lawn areas.

### 1.9 PAYMENT PROCEDURES FOR LAWNS AND GRASSES

- A. Establish a line item in the Schedule of Values for Lawn Maintenance. This line item shall represent a minimum of thirty percent (30%) of the total value of the seeding for the project.
- B. Lawn maintenance will be paid on a monthly basis, following the satisfactory maintenance of the lawns.

## PART 2 – PRODUCTS

### 2.1 TOPSOIL

- A. Topsoil: ASTM D 5268, pH range of 5.5 to 7, a minimum of 4 percent organic material content; free of stones 1” or larger in any dimension and other extraneous materials harmful to plant growth.
  - 1. Topsoil Source: Reuse surface soil stockpiled on-site. Verify suitability of stockpiled surface soil to produce topsoil. Clean surface soil of roots, plants, sod, stones, clay lumps, and other extraneous materials harmful to plant growth.
    - a) Supplement with imported or manufactured topsoil from off-site sources when quantities are insufficient. Obtain topsoil displaced from naturally well-drained construction or mining sites where topsoil occurs at least 4 inches (100 mm) deep; do not obtain from agricultural land, bogs or marshes.
- B. Have topsoil tested by a certified soil testing laboratory to determine the type and quantity of soil amendments necessary. Add amendments to topsoil as necessary to meet these requirements.

### 2.2 INORGANIC SOIL AMENDMENTS

- A. If the topsoil analysis indicates the need for inorganic soil amendments, the following standards apply:
- B. Lime: ASTM C 602, agricultural limestone containing a minimum 80 percent calcium carbonate equivalent and as follows:
  - 1. Class: Class O, with a minimum 95 percent passing through No. 8 (2.36-mm) sieve and a minimum 55 percent passing through No. 60 (0.25-mm) sieve.

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2. Provide lime in form of dolomitic limestone.
- C. Sulfur: Granular, biodegradable, containing a minimum of 90 percent sulfur, with a minimum 99 percent passing through No. 6 (3.35-mm) sieve and a maximum 10 percent passing through No. 40 (0.425-mm) sieve.
- D. Iron Sulfate: Granulated ferrous sulfate containing a minimum of 20 percent iron and 10 percent sulfur.
- E. Aluminum Sulfate: Commercial grade, unadulterated.
- F. Perlite: Horticultural perlite, soil amendment grade.
- G. Agricultural Gypsum: Finely ground, containing a minimum of 90 percent calcium sulfate.
- H. Sand: Clean, washed, natural or manufactured, free of toxic materials.
- I. Diatomaceous Earth: Calcined, diatomaceous earth, 90 percent silica, with approximately 140 percent water absorption capacity by weight.
- J. Zeolites: Mineral clinoptilolite with at least 60 percent water absorption by weight.

### 2.3 ORGANIC SOIL AMENDMENTS

- A. If the topsoil analysis indicates the need for organic soil amendments, the following standards apply:
- B. Compost: Well-composted, stable, and weed-free organic matter, pH range of 5.5 to 8; moisture content 35 to 55 percent by weight; 100 percent passing through 3/4-inch (19-mm) sieve; soluble salt content of 5 to 10 decisiemens/m; not exceeding 0.5 percent inert contaminants and free of substances toxic to plantings; and as follows:
  1. Organic Matter Content: 50 percent of dry weight.
  2. Feedstock: Agricultural, food, or industrial residuals; biosolids; yard trimmings; or source-separated or compostable mixed solid waste.
  3. Peat: Finely divided or granular texture, with a pH range of 6 to 7.5, containing partially decomposed moss peat, native peat, or reed-sedge peat and having a water-absorbing capacity of 1100 to 2000 percent.
  4. Wood Derivatives: Decomposed, nitrogen-treated sawdust, ground bark, or wood waste; of uniform texture, free of chips, stones, sticks, soil, or toxic materials.
  5. Manure: Well-rotted, unleached, stable or cattle manure containing not more than 25 percent by volume of straw, sawdust, or other bedding materials; free of toxic substances, stones, sticks, soil, weed seed, and material harmful to plant growth.

### 2.4 HERBICIDES

- A. Selective Herbicides: EPA registered and approved, of type recommended by manufacturer for application.
  1. Pre-Emergent Herbicide
  2. Post-Emergent Herbicide
  3. Fungicide

### 2.5 FERTILIZER

- A. Bonemeal: Commercial, raw or steamed, finely ground; a minimum of 4 percent nitrogen and 20 percent phosphoric acid.

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- B. Superphosphate: Commercial, phosphate mixture, soluble; a minimum of 20 percent available phosphoric acid.
- C. Commercial Fertilizer: Commercial-grade complete fertilizer of neutral character, consisting of fast- and slow-release nitrogen, 50 percent derived from natural organic sources of urea formaldehyde, phosphorous, and potassium in the following composition:
  - 1. Composition: Nitrogen, phosphorous, and potassium in amounts recommended in topsoil analysis reports from a qualified soil-testing agency.
  - 2. Minimum Composition: No less than 1 lb/1000 sq. ft. (0.45 kg/92.9 sq. m) of actual nitrogen, 4 percent phosphorous, and 2 percent potassium, by weight.

2.6 SEED

- A. Grass Seed: All grass seed must be fresh, clean, and dry.
- B. Seed Species

Proportion by Weight	Grass Species	Min. % Germination	Min. % Pure Seed	Max. % Weed Seed
10%	Kentucky bluegrass ( <u>Poa pratensis</u> ).	80	85	0.50
90%	Tall Fescue ( <u>Festuca arundinacea</u> ).	85	98	0.50

- A. Varieties shall be selected from the 2003-2004 list of recommended turfgrass varieties, published by Virginia Tech.
- B. All seed shall be Blue Tag certified by the Oregon State Seed Laboratory. Tags must be attached to each bag delivered on site.

2.7 MULCHES

- A. Straw Mulch: Provide air-dry, clean, mildew- and seed-free, salt hay or threshed straw of wheat, rye, oats, or barley.
- B. Peat Mulch: Finely divided or granular texture, with a pH range of 6 to 7.5, containing partially decomposed moss peat, native peat, or reed-sedge peat and having a water-absorbing capacity of 1100 to 2000 percent.
- C. Compost Mulch: Well-composted, stable, and weed-free organic matter, pH range of 5.5 to 8; moisture content 35 to 55 percent by weight; 100 percent passing through 1-inch (25-mm) sieve; soluble salt content of 5 to 10 decisiemens/m; not exceeding 0.5 percent inert contaminants and free of substances toxic to plantings; and as follows:
  - 1. Organic Matter Content: 50 percent of dry weight.
- D. Fiber Mulch: Biodegradable, dyed-wood, cellulose-fiber mulch; nontoxic; free of plant-growth or germination inhibitors; with maximum moisture content of 15 percent and a pH range of 4.5 to 6.5.

2.8 EROSION-CONTROL MATERIALS

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- A. Erosion-Control Fiber Mesh: Biodegradable twisted jute or spun-coir mesh, a minimum of 0.92 lb/sq. yd. (0.5 kg/sq. m), with 50 to 65 percent open area. Include manufacturer's recommended steel wire staples, 6 inches (150 mm) long.

### PART 3 - EXECUTION

#### 3.1 EXAMINATION

- A. Examine areas to receive lawns and grass for compliance with requirements and for conditions affecting performance of the Work. Do not proceed with installation until unsatisfactory conditions have been corrected.

#### 3.2 PREPARATION

- A. Protect structures, utilities, sidewalks, pavements, and other facilities, trees, shrubs, and plantings from damage caused by planting operations.
- B. Provide erosion-control measures to prevent erosion or displacement of soils and discharge of soil-bearing water runoff or airborne dust to adjacent properties and walkways.
- C. Protect adjacent and adjoining areas from hydroseed overspraying.

#### 3.3 TOPSOIL PLACEMENT FOR LAWNS

- A. Limit subgrade preparation to areas that will be planted in the immediate future.
- B. Loosen subgrade to a minimum depth of 4 inches. Remove stones, sticks and roots larger than 2 inches in any dimension from subgrade. Completely remove trash and other extraneous debris from subgrade.
- C. Have topsoil tested by a certified soil testing laboratory to determine the type and quantity of soil amendments necessary.
- D. Sift topsoil to remove stones and other objects larger than 1" in any dimension. Maximum object size for topsoil shall be achieved by sifting not by hand removal or raking following placement of topsoil.
- E. Mix soil amendments and fertilizers with topsoil at rates required by soil testing. Delay mixing fertilizer if planting does not follow placing of planting soil within 4 days. Either mix soil before spreading or apply soil amendments on surface of spread topsoil and mix thoroughly into top 4 inches (100 mm) of topsoil before planting.
- F. Mix lime with dry soil prior to mixing fertilizer.
- G. Spread topsoil to a minimum depth of six inches (6").

#### 3.4 SEEDING LAWNS

- A. Sow seed with a spreader or a seeding machine. Do not broadcast or drop seed when wind velocity exceeds 5 mph (8 km/h). Evenly distribute seed by sowing equal quantities in 2 directions at right angles to each other.
- B. Do not use wet seed or seed that is moldy or otherwise damaged in transit or storage.
- C. Sow seed at the following rates:
  - 1. Seeding Rate: 200 lbs./acre.

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- D. Rake seed lightly into top 1/4 inch of topsoil, roll lightly, and water with fine spray.
- E. Hydroseed all slopes 3:1 or steeper.
- F. Protect seeded areas 3:1 slope/grade or steeper against erosion by providing erosion-control blankets installed and stapled according to manufacturer's recommendations.
- G. Protect seeded areas less than 3:1 slope/grade against erosion by spreading straw mulch after completion of seeding operations. Spread uniformly at a minimum rate of 2 tons per acre (45 kg per 100 sq. m) to form a continuous blanket 1-1/2 inches (38 mm) loose depth over seeded areas. Spread by hand, blower, or other suitable equipment.
  - 1. Anchor straw mulch by crimping into topsoil by suitable mechanical equipment.

### 3.5 MAINTENANCE OF NEW LAWNS

- A. Begin maintenance of lawns immediately after each area is planted and continue until acceptable lawn is established. Maintain seeded lawns until Substantial Completion. Maintain all grassed areas as necessary to ensure a satisfactory lawn is achieved at Substantial Completion.
- B. Maintain and establish lawns by watering, fertilizing, weeding, mowing, trimming, replanting, and other operations. Roll, regrade, and replant bare or eroded areas and remulch to produce a uniformly smooth lawn.
  - 1. Replant bare areas with same materials as for lawns.
  - 2. Replace disturbed mulch.
- C. Watering: Provide and maintain temporary hoses, and lawn-watering equipment to convey water from a water source to keep lawns uniformly moist to a depth of 4 inches.
  - 1. Provide a source of water for irrigation. Utilize temporary irrigation meters, a well or water trucks as necessary for the water source.
  - 2. Water seeded areas as necessary to promote vigorous growth of grass but at the minimum rate of 1 inch per week.
  - 3. Water sodded areas per the requirements of the grower. Maintain moist soil to a depth of at least four inches.
- D. At a minimum, the following fertilizer applications are required:
  - 1. By November 30, 2001, apply 15-5-10 commercial fertilizer at the rate of 200 lbs. per acre over all seeded and sodded areas.
  - 2. By March 30, 2002, apply 15-5-10 commercial fertilizer at the rate of 350 lbs. per acre over all seeded and sodded areas.
  - 3. By November 30, 2002, apply 15-5-10 commercial fertilizer at the rate of 200 lbs. per acre and apply lime at 2000 lbs. per acre over all seeded and sodded areas.
  - 4. Provide written acknowledgement that this requirement has been met prior to requesting Substantial Completion.
- E. Mow lawns as soon as there is enough top growth to cut with mower set at indicated height. Repeat mowing as required to maintain indicated height without cutting more than 40 percent of the grass height (minimum of 3 mowings). Remove no more than 40 percent of grass-leaf growth in initial or subsequent mowings. Do not delay mowing until grass blades bend over and become matted. Do not mow when grass is wet. Schedule initial and subsequent mowings to maintain following grass height:
  - 1. Mow grass to a finished height of 3 to 4 inches high.
- F. Apply pre-emergent herbicide to lawns areas. Apply 60 – 90 days after planting.

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### 3.6 SATISFACTORY LAWN

- A. Seeded lawns shall be considered satisfactory/acceptable provided requirements, including maintenance, have been met and a healthy, uniform, close stand of grass is established, free of weeds, bare spots exceeding 5 by 5 inches (125 by 125 mm), and surface irregularities.
- B. Sodded lawns shall be considered satisfactory/acceptable provided requirements, including maintenance, have been met and a healthy, well-rooted, even-colored, viable lawn is established, free of weeds, open joints, bare areas and surface irregularities.
- C. Replant lawns that do not meet requirements and continue maintenance until lawns are satisfactory/acceptable.
- D. Substantial Completion of the building and the remainder of the project may be achieved (pending prior Architect and Owner approval) before achieving a satisfactory/acceptable lawn. Continue to replant and maintain unsatisfactory/unacceptable lawn areas until acceptance is obtained. Warranties for lawns shall begin at the time of acceptance of the lawn.

### 3.7 CLEANUP AND PROTECTION

- A. Promptly remove soil and debris created by lawn work from sidewalks and paved areas. Clean wheels of vehicles before leaving site to avoid tracking soil onto surface of roads, walks, or other paved areas.
- B. Erect barricades and warning signs as required to protect newly planted areas from traffic. Maintain barricades throughout maintenance period until lawn is established.

END OF SECTION 32 9200

## SECTION 32 9300 – EXTERIOR PLANTS

### PART 1 – GENERAL

#### 1.1 RELATED DOCUMENTS

- A. The provisions of the Contract Documents apply to the work of this Section.

#### 1.2 SUMMARY

- A. This Section includes the following:
  - 1. Trees
  - 2. Shrubs
  - 3. Stakes & Guys

#### 1.3 SUBMITTALS

- A. Installers Qualifications: Provide a list, with references, of the past three projects of similar scope.
- B. Product Data: For each type of product indicated.
- C. Plant Material Certifications:
  - 1. Certificates of inspection as required by governmental authorities.
  - 2. Label data substantiating that plant materials comply with specified requirements.
- D. Planting Schedule:
  - 1. Typewritten planting schedule.
  - 2. Once accepted, revise dates only as approved in writing and submitted to Architect.
- E. Maintenance Schedules: Typewritten instructions recommending procedures for maintenance of landscape work for one full year. Submit prior to completion of project.

#### 1.4 QUALITY ASSURANCE

- A. Installer Qualifications: Engage an experienced installer, who has successfully completed planting projects similar in size and complexity to this project. The installer's primary business (defined as a minimum of 60% of total billings) shall be exterior plant installation.
- B. Installer's Field Supervision: Installer to maintain an experienced full-time supervisor on the project site when exterior planting is in progress.
- C. Exterior Plant Materials:
  - 1. Provide plant materials of quantity, size, genus, species, and variety indicated on the Drawings.
  - 2. All plant materials and work shall comply with recommendations and requirements of ANSI Z60.1 "American Standard for Nursery Stock."
  - 3. Do not make substitutions. If specified landscape material is not obtainable, submit proof of non-availability to Architect, together with proposal for use of equivalent material.
  - 4. The Architect may inspect plant materials either at place of growth or on site before planting, for compliance with requirements for genus, species, variety, size, and quality. Architect retains right to further inspect trees for size and condition of balls and root systems, insects, injuries and latent defects, and to reject unsatisfactory or defective material at any time during progress of work. Remove rejected trees immediately from project site.

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- D. Preinstallation Conference: Conduct conference at Project site to comply with requirements in Division 1 Section "Project Management and Coordination."

### 1.5 DELIVERY, STORAGE AND HANDLING

- A. Packaged Materials:
  - 1. Deliver packaged materials in containers showing weight, analysis, and name of manufacturer or grower.
  - 2. Protect materials from deterioration during delivery, and while stored at site.
- B. Exterior Plant Materials
  - 1. Protect bark, branches, and root systems from sun scald, drying, sweating, whipping, and other handling and tying damage. Do not bend or bind-tie trees or shrubs in such a manner as to destroy their natural shape. Provide protective covering of exterior plants during delivery. Do not drop exterior plants during delivery.
  - 2. Deliver exterior plant materials after preparations for planting have been completed and plant immediately. If planting is delayed more than 6 hours after delivery, set plant materials in shade, protect from weather and mechanical damage, and keep roots moist and free from frost.
  - 3. Do not remove container-grown stock from containers until planting time.
  - 4. Balled and burlapped material shall be freshly dug.
  - 5. Handle planting stock by root ball.

### 1.6 PROJECT CONDITIONS

- A. Examine the subgrade, verify the elevations, and observe the conditions under which work is to be performed. Do not proceed with the work until unsatisfactory conditions have been corrected in a manner acceptable to the installer.
- B. Determine location of underground utilities and perform work in a manner which will avoid possible damage. Hand excavate as required.
- C. When conditions detrimental to plant growth are encountered, such as rubble fill, adverse drainage conditions, or obstructions, notify Architect before planting.
- D. Provide all necessary safeguards for the protection of all planted areas until provisional inspection/acceptance is accomplished.
- E. Planting Restrictions: Plant during one of the following periods.
  - 1. Spring Planting: Unfrozen soil conditions March 1-June 1<sup>st</sup>.
  - 2. Fall Planting: September 1-November 1<sup>st</sup> or until frozen soil conditions prevent work.
  - 3. Summer Planting: June 1 – September 1 with approved irrigation system.
- F. Coordination with Lawns: Install plant materials after finish grades are established and before planting lawns, unless otherwise acceptable to the Architect.
  - 1. When planting exterior plants after lawns, protect lawn areas and promptly repair damage caused by planting operations.

### 1.7 WARRANTY

- A. Warranty exterior plant materials for a period of one year after date of Final Completion against defects including death and unsatisfactory growth, except for defects resulting from neglect by Owner, abuse or damage by others, or unusual phenomena or incidents which are beyond Contractor's control.
  - 1. The Contractor shall provide written notice to the Architect of any practice which will affect the warranty if not remedied promptly. The Architect will render an opinion of the conflict if necessary.

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2. Make replacements of all dead plants or plants in impaired condition (more than 25% dead or dying) condition in early spring/fall following installation. Replacements of dead or rejected plants should again be made prior to the expiration of the warranty period.

### 1.8 MAINTENANCE

- A. The Owner is responsible for maintaining all exterior plant material throughout the warranty period according to the submitted Maintenance Schedule.
- B. Remove all stakes and guy wires at the end of the 12 month guarantee period.

## PART 2 – PRODUCTS

### 2.1 EXTERIOR PLANT MATERIALS

- A. General: Provide nursery-grown plant materials complying with ANSI Z60.1, with healthy root systems developed by transplanting or root pruning. Provide well-shaped, fully branched, healthy, vigorous stock free of disease, insects, eggs, larvae, and defects such as knots, sun scald, injuries, abrasions, and disfigurement.
- B. Label at least one tree and one shrub of each variety and caliper with a securely attached, waterproof tag bearing legible designation of botanical and common name.

### 2.2 FERTILIZER

- A. Commercial Fertilizer: Commercial-grade complete fertilizer of neutral character, consisting of fast- and slow-release nitrogen, 50 percent derived from natural organic sources of urea formaldehyde, phosphorous, and potassium. Revise fertilizer mix to remedy deficiencies found in soil.
  1. Composition: 1 lb/1000 sq. ft. (0.45 kg/92.9 sq. m. of actual nitrogen, 4 percent phosphorous, and 2 percent potassium, by weight.
  2. Composition: Nitrogen, phosphorous, and potassium in amounts recommended in soil reports from a qualified soil-testing agency.
- B. Slow-Release Fertilizer: Granular or pelleted fertilizer consisting of 50 percent water-insoluble nitrogen, phosphorus, and potassium. Revise fertilizer mix to remedy deficiencies found in soil.
  1. Composition: 20 percent nitrogen, 10 percent phosphorous, and 10 percent potassium, by weight.
  2. Composition: Nitrogen, phosphorous, and potassium in amounts recommended in soil reports from a qualified soil-testing agency.

### 2.3 MULCHES

1. Organic Mulch: Six (6) month old well rotted double shredded native hardwood bark mulch not larger than 4" in length and 1/2" in width, free of woodchips and sawdust.

### 2.4 WATER

1. Free of substances harmful to plant growth.

### 2.5 TOPSOIL

- A. Topsoil: ASTM D 5268, pH range of 5.5 to 7, a minimum of 4 percent organic material content. Topsoil shall be fertile, friable, natural topsoil of loamy character, without admixture of subsoil material, obtained from a well-drained arable site, reasonably free from clay, lumps, coarse sands, stones, plants, roots, sticks and other foreign materials.

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### B. Topsoil Source:

1. Reuse surface soil stockpiled on-site. Verify suitability of stockpiled surface soil to produce topsoil. Clean surface soil of roots, plants, sod, stones, clay lumps, and other extraneous materials harmful to plant growth.
  - a) Supplement with imported or manufactured topsoil from off-site sources when quantities are insufficient. Obtain topsoil displaced from naturally well-drained sites where topsoil occurs at least 4 inches (100 mm) deep; do not obtain from agricultural land, bogs or marshes.
2. Import topsoil or manufactured topsoil from off-site sources. Obtain topsoil displaced from naturally well-drained sites where topsoil occurs at least 4 inches (100 mm) deep; do not obtain from agricultural land, bogs or marshes.
3. Amend existing in-place surface soil to produce topsoil. Verify suitability of surface soil to produce topsoil. Clean surface soil of roots, plants, sod, stones, clay lumps, and other extraneous materials harmful to plant growth.
  - a) Surface soil may be supplemented with imported or manufactured topsoil from off-site sources. Obtain topsoil displaced from naturally well-drained sites where topsoil occurs at least 4 inches (100 mm) deep; do not obtain from agricultural land, bogs or marshes.

### 2.6 INORGANIC SOIL AMENDMENTS

- A. Lime: ASTM C 602, agricultural limestone containing a minimum 80 percent calcium carbonate equivalent and as follows:
  1. Class: Class T, with a minimum 99 percent passing through No. 8 (2.36-mm) sieve and a minimum 75 percent passing through No. 60 (0.25-mm) sieve.
  2. Class: Class O, with a minimum 95 percent passing through No. 8 (2.36-mm) sieve and a minimum 55 percent passing through No. 60 (0.25-mm) sieve.
  3. Provide lime in form of dolomitic limestone.
- B. Sulfur: Granular, biodegradable, containing a minimum of 90 percent sulfur, with a minimum 99 percent passing through No. 6 (3.35-mm) sieve and a maximum 10 percent passing through No. 40 (0.425-mm) sieve.
- C. Iron Sulfate: Granulated ferrous sulfate containing a minimum of 20 percent iron and 10 percent sulfur.
- D. Aluminum Sulfate: Commercial grade, unadulterated.
- E. Perlite: Horticultural perlite, soil amendment grade.
- F. Agricultural Gypsum: Finely ground, containing a minimum of 90 percent calcium sulfate.
- G. Sand: Clean, washed, natural or manufactured, free of toxic materials.
- H. Diatomaceous Earth: Calcined, diatomaceous earth, 90 percent silica, with approximately 140 percent water absorption capacity by weight.
- I. Zeolites: Mineral clinoptilolite with at least 60 percent water absorption by weight.

### 2.7 ORGANIC SOIL AMENDMENTS

- A. Compost: Well-composted, stable, and weed-free organic matter, pH range of 5.5 to 8; moisture content 35 to 55 percent by weight; 100 percent passing through 3/4-inch (19-mm) sieve; soluble salt content of 5 to 10 decisiemens/m; not exceeding 0.5 percent inert contaminants and free of substances toxic to plantings; and as follows:
  1. Organic Matter Content: 50 to 60 percent of dry weight.
  2. Feedstock: Agricultural, food, or industrial residuals; bio-solids; yard trimmings; or source-separated or compostable mixed solid waste.
- B. Sphagnum peat moss: Sphagnum peat moss shall be partially decomposed, finely divided or granular texture, with a pH range of 3.4 to 4.8.

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- C. Peat: Finely divided or granular texture, with a pH range of 6 to 7.5, containing partially decomposed moss peat, native peat, or reed-sedge peat and having a water-absorbing capacity of 1100 to 2000 percent.
- D. Wood Derivatives: Decomposed, nitrogen-treated sawdust, ground bark, or wood waste; of uniform texture, free of chips, stones, sticks, soil, or toxic materials.
  - 1. In lieu of decomposed wood derivatives, mix partially decomposed wood derivatives with at least 0.15 lb (2.4 kg) of ammonium nitrate or 0.25 lb (4 kg) of ammonium sulfate per cubic foot (cubic meter) of loose sawdust or ground bark.
- E. Manure: Well-rotted, unleached, poultry, stable or cattle manure containing not more than 25 percent by volume of straw, sawdust, or other bedding materials; free of toxic substances, stones, sticks, soil, weed seed, and material harmful to plant growth.

### 2.8 MISCELLANEOUS PRODUCTS

- A. Antidesiccant: Water-insoluble emulsion, permeable moisture retarder, film forming, for trees and shrubs. Deliver in original, sealed, and fully labeled containers and mix according to manufacturer's written instructions.

## PART 3 – EXECUTION

### 3.1 EXAMINATION

- A. Examine areas to receive exterior plants for compliance with requirements and conditions affecting installation and performance. Proceed with installation only after unsatisfactory conditions have been corrected.

### 3.2 PREPARATION

- A. Tree save areas as indicated shall be tagged and approved by the Architect prior to any clearing and/or thinning.
- B. Protect structures, utilities, sidewalks, pavements, and other facilities, and lawns and existing exterior plants from damage caused by planting operations.
- C. Provide erosion-control measures to prevent erosion or displacement of soils and discharge of soil-bearing water runoff or airborne dust to adjacent properties and walkways.
- D. Lay out individual tree and shrub locations and areas for multiple exterior plantings. Stake locations, outline areas, adjust locations when requested, and obtain Landscape Architect's acceptance of layout before planting. Make minor adjustments as required.
- E. Lay out exterior plants at locations indicated. Stake locations of individual trees and shrubs and outline areas for multiple plantings.
- F. Apply antidesiccant to trees and shrubs using power spray to provide an adequate film over trunks, branches, stems, twigs, and foliage to protect during digging, handling, and transportation.
  - 1. If deciduous trees or shrubs are moved in full leaf, spray with antidesiccant at nursery before moving and again two weeks after planting.

### 3.3 PLANTING BED ESTABLISHMENT

- A. Loosen subgrade of planting beds to a minimum depth of 4 inches (100 mm). Remove stones larger than 1 inch (25 mm) in any dimension and sticks, roots, rubbish, and other extraneous matter and legally dispose of them off of Owner's property.
  - 1. Apply fertilizer directly to subgrade before loosening.
  - 2. Spread topsoil, apply soil amendments and fertilizer on surface, and thoroughly blend planting soil mix.
    - a) Delay mixing fertilizer with planting soil if planting will not proceed within a few days.

## SECTION 32 9300 – EXTERIOR PLANTS

- b) Mix lime with dry soil before mixing fertilizer.
- B. Finish Grading: Grade planting beds to a smooth, uniform surface plane with loose, uniformly fine texture. Roll and rake, remove ridges, and fill depressions to meet finish grades.
- C. Restore planting beds if eroded or otherwise disturbed after finish grading and before planting.

### 3.4 TREE AND SHRUB PLANTING

- A. Set all plant materials plumb and in center of pit or trench as per detail.
  - 1. Remove burlap and wire baskets from tops of root balls and partially from sides, but do not remove from under root balls. Remove pallets, if any, before setting. Do not use planting stock if root ball is cracked or broken before or during planting operation.
  - 2. Carefully remove root ball from container without damaging root ball or plant.
  - 3. Place planting soil mix around root ball in layers, tamping to settle mix and eliminate voids and air pockets. When pit is approximately one-half backfilled, water thoroughly before placing remainder of backfill. Repeat watering until no more water is absorbed. Water again after placing and tamping final layer of planting soil mix.
  - 4. Spread roots without tangling or turning toward surface, and carefully work backfill around roots by hand. Puddle with water until backfill layers are completely saturated. Plumb before backfilling and maintain plumb while working backfill around roots and placing layers above roots. Tamp final layer of backfill. Remove injured roots by cutting cleanly, do not break.
  - 5. Dish top of backfill to allow for mulching.
- B. Organic Mulching: Apply 3-inch (75-mm.) average thickness of organic mulch extending to edge of dripline. Do not place mulch within 3 inches (75 mm) of trunks or stems.

### 3.5 TREE AND SHRUB PRUNING

- A. Prune, thin, and shape trees and shrubs as indicated.

### 3.6 CLEANUP AND PROTECTION

- A. During exterior planting, keep adjacent pavings and construction clean and work area in an orderly condition.
- B. Protect exterior plants from damage due to landscape operations, operations by other contractors and trades, and others. Maintain protection during installation and maintenance periods. Treat, repair, or replace damaged exterior planting.

### 3.7 DISPOSAL

- A. Disposal: Remove surplus soil and waste material, including excess subsoil, unsuitable soil, trash, and debris, and legally dispose of them off Owner's property.

END OF SECTION 02930