

RESOLUTION NO. 2019 - 141

**A RESOLUTION BY THE BOARD OF COUNTY COMMISSIONERS OF ST. JOHNS COUNTY, FLORIDA, AUTHORIZING THE COUNTY ADMINISTRATOR, OR DESIGNEE, TO AWARD BID NO. 19-27 AND TO EXECUTE AN AGREEMENT FOR REMINGTON FOREST DRIVE DRAINAGE IMPROVEMENTS.**

**RECITALS**

**WHEREAS**, the County desires to enter into contracts with G&H Underground Construction, Inc. to provide services Drainage Improvements on Remington Forest Drive for St. Johns County in accordance with Bid No. 19-27; and

**WHEREAS**, the scope of the services will be to provide any and all labor, materials, and equipment required in order for construction of drainage improvements in the vicinity of an existing culverted cross drain on Remington Forest Drive, in St. Johns County, Florida, in accordance with Bid No. 19-27; and

**WHEREAS**, through the County's formal Bid process, G&H Underground Construction, Inc. was selected as the lowest, responsive, responsible bidder to enter into contract with the County to perform the work referenced above; and

**WHEREAS**, the County has reviewed the terms, provisions, conditions and requirements of the proposed contract (attached hereto, an incorporated herein) and finds that entering into contract to complete the work services serves a public purpose.

**WHEREAS**, the contract will be in substantial conformance with the attached draft contract.

**NOW, THEREFORE BE IT RESOLVED BY THE BOARD OF COUNTY COMMISSIONERS OF ST. JOHNS COUNTY, FLORIDA**, as follows:

Section 1. The above Recitals are incorporated by reference into the body of this Resolution and such Recitals are adopted as finds of fact.

Section 2. The County Administrator, or designee, is hereby authorized to award Bid No. 19-27 to G&H Underground Construction, Inc. and to execute a contract for the services set forth therein.

Section 3. Upon approval by the Board of County Commissioners, the County Administrator, or designee, is further authorized to execute an agreement in substantially the same form and format as the attached draft on behalf of the County to provide the scope of services as specifically provided in Bid No: 19-27.

Section 4. To the extent that there are typographical and/or administrative errors that do not change the tone, tenor, or concept of this Resolution, then this Resolution may be revised without subsequent approval by the Board of County Commissioners.

**PASSED AND ADOPTED** by the Board of County Commissioners of St. Johns County, Florida, this 16 day of April, 2019.

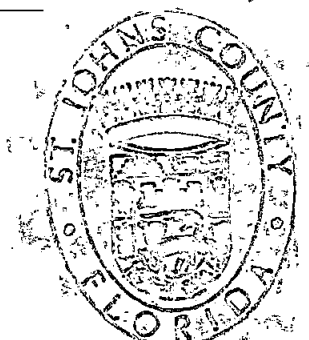
**BOARD OF COUNTY COMMISSIONERS OF ST. JOHNS COUNTY, FLORIDA**

By: Paul M. Waldron  
Paul M. Waldron, Chair

**ATTEST:** Hunter S. Conrad, Clerk

By: Pam Hatterman  
Deputy Clerk

**RENDITION DATE** 4/18/19





**STANDARD AGREEMENT  
BETWEEN  
OWNER AND CONTRACTOR**  
(1992 EDITION, REVISED 12/18/13)

This Contract Agreement ("Agreement") is made as of \_\_\_\_\_, 2019 by and between **ST. JOHNS COUNTY, FL** ("Owner"), a political subdivision of the State of Florida, whose principal offices are located at 500 San Sebastian View, St. Augustine, FL 32084, **G&H UNDERGROUND CONSTRUCTION, INC.** ("Contractor"), with offices located at: 2200 N. Ponce de Leon Boulevard, Suite 11, St. Augustine, FL 32084, Phone: (904) 829-8199, Fax: (904) 810-0531, and E-mail: [ghunderground@bellsouth.net](mailto:ghunderground@bellsouth.net), under seal for Construction of **BID NO: 19-27; REMINGTON FOREST DRIVE DRAINAGE IMPROVEMENTS**, hereinafter referred to as the "Project".

The Owner and the Contractor hereby agree as follows:

**ARTICLE I  
THE CONTRACT AND THE CONTRACT DOCUMENTS**

**1.1 The Contract**

1.1.1 The Contract between the Owner and the Contractor, of which this Agreement is a part, consists of the Contract Documents. It shall be effective on the date this Agreement is executed by the last party to execute it.

**1.2 The Contract Documents**

1.2.1 The Contract Documents consist of this Agreement, the Bid Documents and Bid Forms, Specifications, all Change Orders and Field Orders issued hereafter and executed by the parties and the Engineers, any other amendments hereto executed by the parties hereafter, together with the following: Bid Documents, Addendum 1, Addendum 2, Bonds and Insurance.

Documents not enumerated in this Paragraph 1.2.1 are not Contract Documents and do not form part of this Agreement.

**1.3 Entire Agreement**

1.3.1 The Contract, together with the Contractor's Public Construction Bond for the Project, constitutes the entire and exclusive agreement between the Owner and the Contractor with reference to this Project. Specifically, but without limitation, this Agreement supersedes any Bid Documents not listed among the Contract Documents described above and all prior written or oral communications, representations and negotiations, if any, between the Owner and Contractor.

**1.4 No Privity with Others**

1.4.1 Nothing contained in this Agreement shall create, or be interpreted to create, privity or any other contractual agreement between the Owner and any person or entity other than the Contractor.

**1.5 Intent and Interpretation**

1.5.1 The intent of this Agreement is to require complete, correct and timely execution of the Work. Any work that may be required implied or inferred by the Contract Documents, or any one or more of them, as necessary to produce the intended result shall be provided by the Contractor for the Contract Price.

1.5.2 The Contract is intended to be an integral whole and shall be interpreted as internally consistent. What is required by any one Contract Document shall be considered as required by the Contract.

1.5.3 When a word, term or phrase is used in this Agreement, it shall be interpreted or construed, first, as defined herein; second, if not defined, according to its generally accepted meaning in the construction industry; and third, if there is no generally accepted meaning in the construction industry, according to its common and customary usage.

1.5.4 The words "include," "includes" or "including," as used in this Agreement, shall be deemed to be followed by the phrase "without limitation."

1.5.5 The specification herein of any act, failure, refusal, omission, event, occurrence, or condition as constituting a

material breach of this Agreement shall not imply that any other, non-specified act, failure, refusal, omission, event, occurrence, or condition shall be deemed not to constitute a material breach of this Agreement.

1.5.6 Words or terms used as nouns in this Agreement shall be inclusive of their singular and plural forms, unless the context of their usage clearly requires a contrary meaning.

1.5.7 The Contractor shall have a continuing duty to read, carefully study and compare each of the Contract Documents, the Shop Drawings and the Product Data and shall give written notice to the Engineer and the Owner of any inconsistency, ambiguity, error or omission which the Contractor may discover with respect to these documents before proceeding with the affected Work. The issuance, or the express or implied approval by the Owner or the Engineer of the Contract Documents, Shop Drawings, or Product Data shall not relieve any such approval by evidence of the Contractor's compliance with the Contract. The Owner has requested the Engineer to only prepare documents for the Project, including the Drawings and Specifications for the Project, which are accurate, adequate, consistent, coordinated, and sufficient for construction. HOWEVER, THE OWNER MAKES NO REPRESENTATION OR WARRANTY OF ANY NATURE WHATSOEVER TO THE CONTRACTOR CONCERNING SUCH DOCUMENTS. By the execution hereof, the Contractor acknowledges and represents that it has received, reviewed and carefully examined such documents, has found them to be complete, accurate, adequate, consistent, coordinated and sufficient for construction, and that the Contractor has not, does not, and shall not rely upon any representation or warranties by the Owner concerning such documents as no such representation or warranties have been or are hereby made.

1.5.8 As between numbers and scaled measurements on the Drawings and in the Design, the numbers shall govern; as between larger scale and smaller scale drawings, the larger scale shall govern.

1.5.9 Neither the organization of any of the Contract Documents into divisions, sections, paragraphs, articles, (or other categories), nor the organization or arrangement of the Design, shall control the Contractor in dividing the Work or in establishing the extent or Scope of Work to be performed by Subcontractors.

## **1.6 Ownership of Contract Documents**

1.6.1 The Contract Documents, and each of them, shall remain the property of the Owner. The Contractor shall have the right to keep one record set of the Contract Documents upon completion of the Project; provided, however, that in no event shall Contractor use, or permit to be used, any or all of such Contract Documents on other projects without Owner's prior written authorization.

## **ARTICLE II THE WORK**

### **2.1 Scope of Work**

The Contractor shall perform all of the Work required, implied, or reasonably inferable from, this Agreement.

2.1.1 The term "Work" shall mean whatever is done by or required of the Contractor to perform and complete its duties under this Agreement, including the following: construction of the whole or a designated part of the Project in the manner set forth in the Contract Documents; furnishing of any required Surety Bonds and insurance; and the provision or furnishing of labor, supervision, services, materials, supplies, equipment, fixtures, appliances, facilities, tools, transportation, storage, power, permits and licenses required of the Contractor, fuel, heat, light, cooling and all other utilities as required by this Agreement. The Work to be performed by the Contractor is generally described as follows:

The Contractor shall be responsible for providing any and all labor, materials, and equipment required in order for construction of drainage improvements in the vicinity of an existing culverted cross drain on Remington Forest Drive, in St. Johns County, Florida. The existing cross drain is located southeast of the Remington Forest Drive / State Road 13 intersection and consists of dual 30-inch diameter corrugated metal pipes. The existing deteriorated cross drain will be replaced with dual 42" diameter reinforced concrete pipes. The project will also include the construction of new curb and gutter parallel to the roadway to address erosion issues. The curb and gutter will direct roadway runoff to curb inlets positioned near the cross drain. The existing ditch pavement will be replaced. The existing roadway will be milled and resurfaced within limits of the curb and gutter construction. The project also includes the relocation of a Jacksonville Electric Authority (JEA) water main.

All work shall be performed in accordance with the plans and specifications under Bid No. 19-27.

**ARTICLE III  
CONTRACT TIME**

**3.1 Time and Liquidated Damages**

3.1.1 The Contractor shall commence the Work within ten (10) days upon receipt of the Notice to Proceed and shall Substantially Complete all Work within **one hundred twenty (120)** consecutive calendar days. Final Completion shall be reached by or before **thirty (30)** consecutive calendar days after Substantial Completion.

The number of calendar days from the date on which the Work is permitted to proceed, through the date set forth for Final Completion, shall constitute the "Contract Time."

3.1.2 The Contractor shall pay the Owner the sum of **\$1,099.00 (based on FDOT Table in Bid Doc.)** per day for each and every calendar day of unexcused delay in achieving Substantial Completion beyond the date set forth herein for Substantial Completion of the Work. Any sum's due and payable hereunder by the Contractor shall be payable, not as a penalty, but as liquidated damages representing an estimate of delay damages likely to be sustained by the Owner, estimated at or before the time of executing this Agreement. When the Owner reasonably believes that Substantial Completion shall be inexcusably delayed the Owner shall be entitled, but not required, to withhold from any amounts otherwise due the Contractor an amount then believed by the Owner to be adequate to recover liquidated damages applicable to such delays. If and when the Contractor overcomes the delay in achieving Substantial Completion, or any part thereof, for which the Owner has withheld payment, the Owner shall promptly release to the Contractor those funds withheld, but no longer applicable, as liquidated damages.

**3.2 Substantial Completion**

3.2.1 "Substantial Completion" shall mean that stage in the progression of the Work when the Work is sufficiently complete in accordance with this Agreement that the Owner can enjoy beneficial use or occupancy of the Work and can utilize the Work for its intended purpose.

**3.3 Time is of the Essence**

3.3.1 All limitations of time set forth in the Contract Documents are of the essence of this Agreement.

**ARTICLE IV  
CONTRACT PRICE**

**4.1 The Contract Price**

4.1.1 The Owner shall pay, and the Contractor shall accept, as full and complete payment for all the Work required herein a total Lump Sum price of **three hundred ninety thousand dollars (\$390,000.00)**.

The sum set forth in the Paragraph 4.1 shall constitute the Contract Price, which shall not be modified except by Change Order as provided in this Agreement.

**ARTICLE V  
PAYMENT OF THE CONTRACT PRICE**

**5.1 Schedule of Values**

5.1.1 Within ten (10) calendar days of the effective date hereof, the Contractor shall submit to the Owner and to the Project Director a Schedule of Values allocating the Contract Price to the various portions of the Work. The Contractor's Schedule of Values shall be prepared in such form, with such detail, and supported by such data as the Project Director or the Owner may require to substantiate its accuracy. The Contractor shall not imbalance its Schedule of Values nor artificially inflate any element thereof. The violation of this provision by the Contractor shall constitute a material breach of this Agreement. The Schedule of Values shall be used only as a basis for the Contractor's Applications for Payment and shall only constitute such basis after it has been agreed upon in writing by the Project Director and the Owner. The Owner may terminate this Agreement without liability of any kind if the Schedule of Values is not agreed upon within fifteen (15) calendar days of the effective date hereof.

**5.2 Payment Procedure**

5.2.1 The Owner shall pay the Contract Price to the Contractor as provided below.

5.2.2 Progress Payments - On or before the fifteen (15) day of each month after commencement of the Work, the Contractor shall submit an Application for Payment for the period ending the thirtieth (30th) day of the previous month to the Project Director in such form and manner, and with such supporting data and content, as the Project Director may require. Therein, the Contractor may request payment based upon the amount of work done or completed. All partial estimates and payments shall be subject to correction when submitted. Based upon the Contractor's Applications for Payment submitted to the Project Director and upon Certificates for Payment subsequently issued to the Owner by the Project Director, payments will be made in accordance with the Local Government Prompt Payment Act.

5.2.3 The amount of such payments shall be the total value of the Work done to the date of the estimate, based upon the quantities and the Contract unit and/or lump-sum prices, less an amount retained and less payments previously made. The amount retained shall be determined in accordance with Section 255.078 of the Florida Statutes:

(a) Owner may withhold from each progress payment made to the Contractor an amount not to exceed ten (10) percent of the payment as retainage until fifty (50) percent completion of the Work.

(b) After fifty (50) percent completion of the Work is purchased pursuant to this Agreement, Owner will reduce to five (5) percent the amount of retainage withheld from each subsequent progress payment made to the Contractor. The term "fifty (50) percent completion" as used in this provision means the point at which Owner has expensed fifty (50) percent of the total cost of the Work purchased as provided herein, together with all costs associated with existing change orders and other additions or modifications to the Work described herein.

(c) After fifty (50) percent completion of the Work is purchased pursuant to this Agreement, the Contractor may present to the Owner a payment request for up one-half of the retainage held by the Owner. The Owner shall make prompt payment to the Contractor, unless in accordance with Section 255.078(6) of the Florida Statutes, such funds are the subject of a good faith dispute, claim or demand by the Owner or the Contractor.

5.2.4 Each Application for Payment shall be signed by the Contractor and shall constitute the Contractor's representation that the Work has progressed to the level for which payment is requested that the Work has been properly installed or performed in full accordance with this Agreement, and that the Contractor knows of no reason why payment should not be made as requested. Thereafter, the Project Director and Engineer shall review the Application for Payment and may also review the Work at the project site or elsewhere to determine whether the quantity and quality of the Work is as represented in the Application for Payment and is as required by this Agreement. The Project Director shall determine and certify to the Owner the amount properly owing to the Contractor. The Owner shall make partial payments on accounts of the Contract Price within thirty (30) days following the Project Director's receipt of each Application for Payment. The amount of each partial payment shall be the amount certified for payment by the Project Director less such amounts, if any, otherwise owing by the Contractor to the Owner or which the Owner shall have the right to withhold as authorized by this Agreement. The Project Director's certification of the Contractor's Application for Payment shall not preclude the Owner from the exercise of any of its rights as set forth in Paragraph 5.3 herein below.

5.2.5 The Contractor warrants that title to all Work covered by an Application shall pass to the Owner no later than time of payment. The Contractor further warrants that upon submittal of an Application for Payment, all Work for which payments have been received from the Owner shall be free and clear of liens, claims, security interest or other encumbrances in favor of the Contractor or any other person or entity whatsoever.

5.2.6 The Contractor shall promptly pay each Subcontractor out of the amount paid to the Contractor on account of such Subcontractor's Work, the amount to which such Subcontractor is entitled. In the event the Owner becomes informed that the Contractor has not paid a Subcontractor as herein provided, the Owner shall have the right, but not the duty, to issue future checks in payment to the Contractor of amounts otherwise due hereunder naming the Contractor and such Subcontractor as joint hereunder naming the Contractor and such Subcontractor as joint payees. Such joint check procedure, if employed by the Owner, 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 Owner to repeat the procedure in the future.

5.2.7 No progress payment, nor any use or occupancy of the Project by the Owner, shall be interpreted to constitute an acceptance of any Work not in strict accordance with this Agreement.

### **5.3 Withheld Payment**

5.3.1 Owner may decline to make payment, may withhold funds and, if necessary, may demand the return of some or all

of the amounts previously paid to the Contractor, to protect the Owner from loss because of:

- a) Defective Work not remedied by the Contractor and, in the opinion of the Owner, not likely to be remedied by the Contractor;
- b) claims of third parties against the Owner or the Owner's property;
- c) Failure by the Contractor to pay Subcontractors or others in a prompt and proper fashion;
- d) Evidence that the balance of the Work cannot be completed in accordance with the Contract for unpaid balance of the Contract Price;
- e) Evidence that the Work shall not be completed in the time required for Substantial or Final Completion;
- f) Persistent failure to carry out the Work in accordance with the Contract;
- g) Damage to the Owner or a third party to whom the Owner is, or may be, liable.

In the event that the Owner makes written demand upon the Contractor for amounts previously paid by the Owner as contemplated in this Subparagraph 5.3.1, the Contractor shall promptly comply with such demand.

#### **5.4 Unexcused Failure to Pay**

5.4.1 If within ten (10) days after the date established herein for payment to the Contractor by the Owner, the Owner, without cause or basis hereunder, fails to pay the Contractor any amount due and payable to the Contractor, then the Contractor may after seven (7) additional days, written notice to the Owner and the Project Director, and without prejudice to any other available rights or remedies it may have, stop the Work until payment of those amounts due from the Owner have been received. Any payment not made within ten (10) days after the date due shall bear interest at the rate of 12 percent (12%) per annum.

#### **5.5 Substantial Completion**

5.5.1 When the Contractor believes the Work is Substantially Complete, the Contractor shall submit to the Project Director a list of items to be completed or corrected. When the Project Director on the basis of an inspection determines that the Work is in fact Substantially Complete, he shall prepare a Certificate of Substantial Completion which shall establish the date of Substantial Completion, shall state the responsibilities of the Owner and the Contractor for Project security, maintenance, heat, utilities, damage to the Work, and insurance, and shall fix the time within which the Contractor shall complete the items listed therein. Guarantees required by the Contract shall commence on the date of Substantial Completion of the Work. The Certificate of Substantial Completion shall be submitted to the Owner and the Contractor for their written acceptance of the responsibilities assigned to them in such certificate.

Until Final Completion and acceptance of the Work by the Owner, the Owner shall pay the Contractor an amount equal to ninety percent (90%) of the Contract price. Ten Percent (10%) of the Contract Price shall be retained until Final Completion, acceptance of the Work by the Owner and Final Payment to the Contractor.

#### **5.6 Final Completion and Final Payment**

5.6.1 When all the Work is finally complete and the Contractor is ready for a Final Inspection, it shall notify the Owner and the Project Director thereof in writing. Thereupon, the Project Director shall make Final Inspection of the Work and, if the Work is complete in full accordance with this Agreement and this Agreement has been fully performed, the Project Director shall promptly issue a Final Certificate for Payment and if required to repeat its Final Inspection of the Work, the Contractor shall bear the cost of such repetition of the Work, the Contractor shall bear the cost of such repeat Final Inspection(s) which cost may be deducted by the Owner and all other Authorities having jurisdiction under Florida Laws or regulations.

5.6.1.1 If the Contractor fails to achieve Final Completion within the time fixed therefore by the Engineer in its Certificate of Substantial Completion, the Contractor shall pay the Owner liquidated damages at the sum shown in Paragraph 3.1.2. per day for each and every calendar day of unexcused delay in achieving Final Completion beyond the date set forth herein for Final Completion of the Work. Any sum's due and payable hereunder by the Contractor shall be payable, not as penalty, but as liquidated damages representing an estimate of delay damages likely to be sustained by the Owner, estimated at or before the time of executing the Contract. When the Owner reasonably believes that Final Completion shall be inexcusably delayed, the Owner shall be entitled, but not required, to withhold from any amounts otherwise due the Contractor an amount then believed by the Owner to be adequate to recover liquidated damages applicable to such delays. If and when the Contractor overcomes the delay in achieving Final Completion, or any part thereof, for which the Owner has withheld payment, the Owner shall promptly release to the Contractor those funds withheld, but no longer applicable, as liquidated

damages.

5.6.2 The Contractor shall not be entitled to Final Payment unless and until it submits to the Project Director its affidavit that all payrolls, invoices for materials and equipment, and other liabilities connected with the Work for which the Owner, or the Owner's property might be responsible, have been fully paid or otherwise satisfied; releases and waivers of claims and lien from all Subcontractors of the Contractor and of any and all other parties required by the Project Director or the Owner; consent of Surety, if any, to Final Payment. If any third party fails or refuses to provide a release of claim or waiver of a lien as required by Owner the Contractor shall furnish a bond satisfactory to the Owner to discharge any such lien or indemnify the Owner from liability.

5.6.3 The Owner shall make Final Payment of all sums, due the Contractor within thirty (30) days of the Project Director's execution of a Final Certificate for Payment.

5.6.4 Acceptance of Final Payment shall constitute a waiver of all claims against the Owner by the Contractor except for those claims previously made in writing against the Owner by the Contractor, pending at the time of Final Payment, and identified in writing by the Contractor as unsettled at the time of its request for Final Payment.

## **ARTICLE VI THE OWNER**

### **6.1 Information, Services and Things Required from Owner**

6.1.1 The Owner shall furnish to the Contractor, at the time of executing this Agreement, any and all written and tangible material in its possession concerning conditions below ground at the site of the Project. Such written and tangible material is furnished to the Contractor only in order to make complete disclosure of such material and for no other purpose. By furnishing such material, the Owner does not represent, warrant, or guarantee its accuracy either in whole, in part, implicitly, or at all, and shall have no liability therefore. The Owner shall also furnish surveys, legal limitations and utility locations (if known), and a legal description of the Project site. Copies may be provided instead of originals.

6.1.2 Excluding permits and fees normally the responsibility of the Contractor, the Owner shall obtain all approvals, easements, and the like required for construction.

6.1.3 The Owner shall furnish the Contractor, free of charge, 5 copies of the Contract Documents for execution of the Work. The Contractor shall be charged, and shall pay the Owner \$25.00 per additional set of Contract Documents which it may require.

### **6.2 Right to Stop Work**

6.2.1 If the Contractor persistently fails or refuses to perform the Work in accordance with this Agreement, the Owner may order the Contractor to stop the Work, or any described portion thereof, until the cause for stoppage has been corrected, no longer exists, or the Owner orders that Work be resumed. In such event, the Contractor shall immediately obey such order.

### **6.3 Owner's Right to Perform Work**

6.3.1 If the Contractor's Work is stopped by the Owner under Paragraph 6.2, and the Contractor fails within seven (7) days of such stoppage to provide adequate assurance to the Owner that the cause of such stoppage shall be eliminated or corrected, the Owner may, without prejudice to any other rights or remedies the Owner may have against the Contractor, proceed to carry out the subject Work.

In such a situation, an appropriate Change Order shall be issued deducting from the Contract Price the cost of correcting the subject deficiencies, and compensation for the Owner's additional services and expenses necessitated thereby, if any. If the unpaid portion of the Contract Price is insufficient to cover the amount due the Owner, the Contractor shall pay the difference to the Owner.

## **ARTICLE VII THE CONTRACTOR**

7.1 The Contractor is again reminded of its continuing duty set forth in Subparagraph 1.5.7. The Contractor shall perform no part of the Work at any time without adequate Contract Documents or, as appropriate, approved Shop Drawings,

Product Data or Samples for such portion of the Work. If the Contractor performs any of the Work where Contractor knows or should know such work involves a recognized error, inconsistency or omission in the Contract Documents without such notice to the Project Director and the Owner, the Contractor shall bear responsibility for such performance and shall bear the cost of correction.

7.2 The Contractor shall perform the Work strictly in accordance with this Agreement.

7.3 The Contractor shall supervise and direct the Work using the Contractor's best skill, effort and attention. The Contractor shall be responsible to the Owner for any and all acts or omissions of the Contractor, its employees and other engaged in the Work on behalf of the Contractor.

**7.4. Warranty**

7.4.1 The Contractor warrants to the Owner that all labor furnished to progress the Work under this Agreement shall be competent to perform the tasks undertaken, that the product of such labor shall yield only first-class results, that materials and equipment furnished shall be of good quality, free from faults and defects and in strict conformance with this Agreement. This warranty shall survive termination of this Agreement and shall not be affected by Final Payment hereunder. All Work not conforming to these requirements may be considered defective.

7.5 Contractor shall obtain and pay for all permits, fees and licenses necessary and ordinary for the Work. The Contractor shall comply with all lawful requirements applicable to the Work and shall give and maintain any and all notices required by applicable law pertaining to the Work.

**7.6 Supervision**

7.6.1 The Contractor shall employ and maintain at the Project site only competent supervisory personnel. Absent written instruction from the Contractor to the contrary, the superintendent shall be deemed the Contractor's authorized representative at the site and shall be authorized to receive and accept any and all communications from the Owner or Assignees.

7.6.2 Key supervisory personnel assigned by the Contractor to this Project are as follows:

Name	Function
_____	_____
_____	_____
_____	_____

So long as the individuals named above remain actively employed or retained by the Contractor, they shall perform the functions indicated next to their names unless the Owner agrees to the contrary in writing. In the event one or more individuals not listed above subsequently assume one or more of those functions listed above, the Contractor shall be bound by the provisions of this Subparagraph 7.6.2 as though such individuals have been listed above.

7.7 The Contractor, prior to commencing the Work, shall submit to the Project Director for his information, the Contractor's schedule for completing the Work. The Contractor's schedule shall be revised no less frequently than monthly (unless the parties otherwise agree in writing) and shall be revised to reflect conditions encountered from time to time and shall be related to the entire Project. Each sum revision shall be furnished to the Project Director. Failure by the Contractor to strictly comply with the provisions of this Paragraph 7.7 shall constitute a material breach of this Agreement.

7.8 The Contractor shall continuously maintain at the site, for the benefit of the Project Director, one record copy of this Agreement marked to record on a current basis changes, selections and modifications made during construction. Additionally, the Contractor shall maintain at the site for the Project Director the approved Product Data, Samples and other similar required submittals. Upon Final Completion of the Work, all of these record documents shall be delivered to the Owner.

**7.9 Product Data and Samples**

7.9.1 Product Data, Samples and other submittals from the Contractor do not constitute Contract Documents. Their purpose is merely to demonstrate the manner in which the Contractor intends to implement the Work in conformance with



the information received from the Contract Documents. All Product Data, Samples and other submittals shall belong to the Owner and shall be delivered, or returned to Owner, as applicable, prior to Submittals shall belong to Owner and shall be delivered, or returned to Owner, as applicable, prior to Substantial Completion.

#### **7.10 Cleaning the Site and the Project**

7.10.1 The Contractor shall keep the site reasonably clean during performance of the Work. Upon Final Completion of the Work, the Contractor shall clean the site and the Project and remove all waste, together with all of the Contractor's property therefrom.

#### **7.11 Access to Work**

7.11.1 The Owner and the Project Director shall have access to the Work at all times from commencement of the Work through Final Completion. The Contractor shall take whatever steps necessary to provide access when requested.

#### **7.12 Indemnity**

7.12.1 To the fullest extent permitted by law, the Contractor shall indemnify and hold harmless the Owner, employees and officials from, and against, any, and all, administrative/legal/equitable liability, claims, damages, losses and expenses, including attorneys' fees, arising out of or resulting from performance of the work, noted in either the Scope of Work, or the Contract Documents, that are referenced and considered a part of this Agreement. It is specifically noted that such liability, claims, damages, loss or expense includes any of those referenced instances attributable to bodily injury, sickness, disease, or death, or to injury to, or destruction of, personal and/or real property, including the loss of use resulting therefrom or incident to, connected with, associated with or growing out of direct and/or indirect negligent or intentional acts or omissions by the Contractor, a Subcontractor, or anyone directly, or indirectly employed by them, or anyone for whose acts the Contractor or Subcontractor may be liable, regardless of whether or not such liability, claim, damage, loss or expense is caused in part by a party indemnified hereunder.

7.12.2 In claims against any person or entity indemnified under this Paragraph 7.12 by an employee of the Contractor, a Subcontractor, any one directly or indirectly employed by them or anyone for whose acts they may be liable, the indemnification obligation under this Paragraph 7.12 shall not be limited by a limitation on amount or type of damages, compensation or benefits payable by or for the Contractor or a Subcontractor under workers' compensation acts, disability benefits acts or other employee benefit acts.

#### **7.13 Safety**

7.13.1 The Contractor shall be responsible for supervising all safety precautions, including initiating and maintaining such programs in connection with the performance of the Contract and for adequate maintenance of traffic.

7.13.2 The Contractor shall designate a member of the on-site construction team whose duty shall be the prevention of accidents. Unless notified otherwise in writing by the Contractor to the Owner and the Engineer, this person shall be the Contractor's Superintendent.

### **ARTICLE VIII CONTRACT ADMINISTRATION**

#### **8.1 Project Director**

8.1.1 The Project Director, unless otherwise directed by the Owner shall perform those duties and discharge those responsibilities allocated to the Project Director as set forth in this Agreement. The Project Director shall be the Owner's representative from the effective date of this Agreement until Final Payment has been made. The Project Director shall be authorized to act on behalf of the Owner only to the extent provided in this Agreement.

8.1.2 The Owner and the Contractor shall communicate with each other in the first instance through the Project Director.

8.1.3 The Project Director shall be the initial interpreter of the requirements of the drawings and specifications and the judge of the performance there under by the Contractor. The Project Director shall render written or graphic interpretations necessary for the proper execution or progress of the Work with reasonable promptness on request of the Contractor.

8.1.4 The Project Director shall review the Contractor's Applications for Payment and shall certify to the Owner for payment to the Contractor, those amounts then due to the Contractor as provided in this Agreement.

8.1.5 The Project Director shall have authority to reject Work, which is defective or does not conform to the requirements

of this Agreement. If the Project Director deems it necessary or advisable, the Project Director shall have authority to require additional inspection or testing of the Work for compliance with Contract requirements at Contractor's expense.

8.1.6 The Project Director shall review and approve, or take other appropriate action as necessary, concerning the Contractor's submittals including Product Data and Samples. Such review, approval or other action shall be for the sole purpose of determining conformance with the design concept and information given through the Contract Documents.

8.1.7 The Project Director shall prepare Change Orders and may authorize minor changes in the Work by field order as provided elsewhere herein.

8.1.8 The Project Director shall, upon written request from the Contractor, conduct inspections to determine the date of Substantial Completion and the date of Final Completion, shall receive and forward to the Owner for the Owner's review and records, written warranties and related documents required by this Agreement and shall issue a Final Certificate for Payment upon compliance with the requirements of this Agreement.

8.1.9 The Project Director's decision in matters relating to aesthetic effect shall be final if consistent with the intent of this Agreement.

## **8.2 Claims by the Contractor**

8.2.1 All Contractor claims shall be initiated by written notice and claim to the Project Director. Such written notice and claims must be furnished within seven (7) days after occurrence of the event, or the first appearance of the condition, giving rise to the claim.

8.2.2 Pending final resolution of any claim of the Contractor, the Contractor shall diligently proceed with performance of this Agreement and the Owner shall continue to make payments to the Contractor in accordance with this Agreement. The resolution of any claim under this Paragraph 8.2 shall be reflected by a Change Order executed by the Project Director and the Contractor.

8.2.3 Claims for Concealed and Unknown Conditions - Should concealed and unknown conditions encountered in the performance of the Work (a) below the surface of the ground or (b) in an existing structure be at variance with the conditions indicated by this Agreement, or should unknown conditions of an usual nature differing materially from those ordinarily encountered in the area and generally recognized as inherent in Work of the character provided for in this Agreement, be encountered, wherein the Contract Documents or Standard Construction industry practices have not placed the responsibility of discovering such concealed and unknown conditions upon the Contractor prior to the Contractor submitting his Bid for the Work, the Contract Price shall be equitably adjusted by Change Order upon the written notice and claim by either party made within seven (7) days after the first observance of the condition. As a condition precedent to the Owner having any liability to the Contractor for concealed or unknown conditions, the Contractor must give the Project Director written notice of, and an opportunity to observe, the condition prior to disturbing it. The failure by the Contractor to make the written notice and claim as provided in this Subparagraph shall constitute a waiver by the Contractor of any claim arising out of or relating to such concealed or unknown condition.

8.2.4 Claims for Additional Costs - If the Contractor wishes to make a claim for an increase in the Contract Price, as a condition precedent to any liability of the Owner therefore, the Contractor shall give the Project Director written notice of such claim within seven (7) days after the occurrence of the event, or the first appearance of the condition, giving rise to such claim. Such notice shall be given by the Contractor before proceeding to execute any additional or changed Work. The failure by the Contractor to give such notice prior to executing the Work shall constitute a waiver of any claim for additional compensation.

8.2.4.1 In connection with any claim by the Contractor against the Owner for compensation in excess of the Contract Price, any liability of the Owner for the Contractor's costs shall be strictly limited to direct costs incurred by the Contractor and shall in no event include indirect costs or consequential damages of the Contractor.

The Owner shall not be liable to the Contractor for claims of third parties, including Subcontractors, unless and until liability of the Contractor has been established therefore in a court of competent jurisdiction.

8.2.5 Claims for Additional Time - If the Contractor is delayed in progressing any task which at the time of the delay is then critical or which during the delay becomes critical, as the sole result of any act or neglect to act by the Owner or someone acting in the Owner's behalf, or by changes ordered in the Work, unusual delay in transportation, unusually adverse

weather conditions not reasonably anticipated, fire or any causes beyond the Contractor's control, then the date for achieving Substantial Completion of the Work shall be extended upon the written notice and claim of the Contractor to the Project Director, for such reasonable time as the Project Director may determine.

Any notice and claims for an extension of time by the Contractor shall be made not more than seven (7) days after the occurrence of the event or the first appearance of the condition giving the rise to the claim and shall set forth in detail the Contractor's basis for requiring additional time in which to complete the Project. In the event the delay to the Contractor is continuing one, only one notice and claim for additional time shall be necessary. If the Contractor fails to make such claim for an extension shall be waived. This paragraph shall not be deemed to waive any damages for delay that are covered by insurance.

8.2.5.1 Delays and Extensions of Time - An extension of Contract Time shall not be given due to weather conditions unless such weather conditions more severe than average have caused a delay. In requesting extension of time for weather conditions; Contractor shall present complete records and such requests shall document how weather conditions delayed progress of Work.

### **8.3 Field Orders**

8.3.1 The Project Director shall have authority to order minor changes in the Work not involving a change in the Contract Price or in Contract Time and not inconsistent with the intent of the Contract. Such changes shall be effected by field order and shall be binding upon the Contractor. The Contractor shall carry out such field orders promptly.

## **ARTICLE IX SUBCONTRACTORS**

### **9.1 Definition**

9.1.1 A Subcontractor is an entity, which has a direct Contract with the Contractor to perform a portion of the Work.

### **9.2 Award of Subcontracts**

9.2.1 Upon execution of the Contract, the Contractor shall furnish the Project Director, in writing, the names of persons or entities proposed by the Contractor to act as a Subcontractor on the Project. The Project Director shall promptly reply to the Contractor, in writing, stating any objections the Project Director may have to such proposed Subcontractor. The Contractor shall not enter into a Subcontract with a proposed Subcontractor with reference to whom the Project Director has made a timely objection.

9.2.2 All subcontracts shall afford the Contractor rights against the Subcontractor, which correspond to those rights afforded to the Owner by Subparagraph 12.2.1 below.

## **ARTICLE X CHANGES IN THE WORK**

### **10.1 Changes Permitted**

10.1.1 Changes in the Work within the general scope of this Agreement, consisting of additions, deletions, revisions, or any combination thereof, may be ordered without invalidating this Agreement, by Change Order or by Field Order.

10.1.2 Changes in the Work shall be performed under applicable provisions of this Agreement and the Contractor shall proceed promptly with such changes.

### **10.2 Change Order Defined**

10.2.1 Change Order shall mean a written order to the Contractor executed by the Project Director, issued after execution of this Agreement, authorizing and directing a change in the Work or an adjustment in the Contract Price or the Contract Time, or any combination thereof. Only the Change Order may change the Contract Price and the Contract Time.

### **10.3 Changes in the Contract Price**

10.3.1 Any change in the Contract Price resulting from a Change Order shall be determined as follows: (a) by mutual agreement between the Owner and the Contractor as evidenced by (1) the change in the Contract Price being set forth in the Change Order, (2) such change in the Contract Price, together with any conditions or requirements related thereto, being initialed by both parties and (3) the Contractor's execution of the Change Order, or (b) if no mutual agreement occurs

between the Owner and the Contractor, then, as provided in Subparagraph 10.3.2 below.

10.3.2 If no mutual agreement occurs between the Owner and the Contractor as contemplated in Subparagraph 10.3.1 above, the change in the Contract Price, if any, shall then be determined by the Project Director on the basis of the reasonable expenditures or savings of those performing, deleting or revising the Work attributable to the change, including, in the case of an increase or decrease in the Contract Price, a reasonable allowance for direct job site overhead and profit. In such case, the Contractor shall present, in such form and with such content as the Owner or the Project Director requires, an itemized accounting of such expenditures or savings shall be limited to the following: reasonable costs of materials, supplies, or equipment including delivery costs, reasonable costs of labor, including social security, old age and unemployment insurance, fringe benefits required by a pre-existing agreement or by custom, and workers' compensation insurance, reasonable costs of premiums for all Bonds and insurance, permit fees, and sales, use or other taxes related to the Work and paid by the Contractor, and reasonable costs of directly attributable to the change. In no event shall any expenditure or savings associated with the Contractor's home office or other non-jobsite overhead expenses be included in any change in the Contract Price. Pending final determination of reasonable expenditures or savings to the Owner, payments on account shall be made to the Contractor on the Owner's Certificate of Payment.

10.3.3 If Unit Prices are provided in the Contract, and if the quantities contemplated are so changed in proposed Change Order that application of such Unit Prices to the quantities of Work proposed shall cause substantial inequity to the Owner or to the Contractor, that applicable Unit Prices shall be equitable adjusted.

#### **10.4 Minor Changes**

10.4.1 The Project Director shall have authority to order minor changes in the Work not involving a change in the Contract Price or an extension of the Contract Time and not inconsistent with the intent of this Agreement. Such minor changes shall be made by written Field Order, and shall be binding upon the Owner and the Contractor. The Contractor shall promptly carry out such written Field Orders.

#### **10.5 Effect of Executed Change Order**

10.5.1 The execution of a Change Order by the Contractor shall constitute conclusive evidence of the Contractor's agreement to the ordered changes in the Work, this Agreement as thus amended, the Contract Price and the Contract Time. The Contractor, by executing the Change Order, waives and forever releases any claim against the Owner for additional time or compensation for matters relating to or arising out or resulting from the Work included within or affected by the executed Change Order.

#### **10.6 Notice to Surety; Consent**

10.6.1 The Contractor shall notify and obtain the timely consent and approval of the Contractor's surety with reference to all Change Orders if such notice, consent or approval is required by the Contractor's surety or by law. The Contractor's warranty to the Owner 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.

### **ARTICLE XI UNCOVERING AND CORRECTING WORK**

#### **11.1 Uncovering Work**

11.1.1 If any of the Work is covered contrary to the Project Director's request or to any provision of this Agreement, it shall, if required by the Project Director, be uncovered for the Project Director's inspection and shall be properly replaced at the Contractor's expense without change in the Contract Time.

11.1.2 If any of the Work is covered in a manner not described in Subparagraph 11.1.1 above, it shall, if required by the by the Project Director or Owner, be uncovered for the Project Director's inspection. If such Work conforms strictly to this Agreement, costs of uncovering and proper replacement shall by Change Order be charged to the Owner. If such Work does not strictly conform to this Agreement, the Contractor shall pay the costs of uncovering and proper replacement.

#### **11.2 Correcting Work**

11.2.1 The Contractor shall immediately proceed to correct Work rejected by the Project Director as defective or failing to conform to this Agreement. The Contractor shall pay all costs and expenses associated with correcting such rejected Work, including any additional testing and inspections, and reimbursement to the Owner for the Project Director's services

and expenses made necessary thereby.

11.2.2 If within one (1) year after Substantial Completion of the Work, if any of the Work is found to be defective or not in accordance with this Agreement, the Contractor shall correct it within seven (7) days at the Contractor's expense upon receipt of written notice from the Owner. This obligation shall survive Final Payment by the Owner and termination of this Agreement. With respect to Work first performed and completed after Substantial Completion, this one (1) year obligation to specifically correct defective and nonconforming Work shall be extended by the period of time which elapses between Substantial Completion and completion of the subject Work.

11.2.3 Nothing contained in this Paragraph 11.2 shall establish any period of limitation with respect to other obligations, which the Contractor has under this Agreement. Establishment of the one (1) year time period in Subparagraph 11.2.2 relates only to the duty of the Contractor to specifically correct the Work, and has no relationship to the time which the obligation to comply with the Contract Documents may be sought to be enforced.

### **11.3 Owner May Accept Defective or Nonconforming Work**

11.3.1 If the Owner chooses to accept defective or nonconforming Work, the Owner may do so. In such events, the Contract Price shall be reduced by the greater of (a) the reasonable cost of removing and correcting the defective or nonconforming Work, and (b) the difference between the fair market value of the Project had it not been constructed in such manner as to include defective or nonconforming Work. If the remaining portion of the unpaid Contract Price, if any, is insufficient to compensate the Owner for its acceptance or defective or nonconforming Work, the Contractor shall, upon written demand from the Owner, pay the Owner such remaining compensation for accepting defective or nonconforming Work.

## **ARTICLE XII CONTRACT TERMINATION**

### **12.1 Termination by the Contractor**

12.1.1 If the Work is stopped for a period of ninety (90) days by an order of any court or as a result of an act of the Government, through no fault of the Contractor or any person or entity working directly or indirectly for the Contractor, the Contractor may, upon ten (10) days written notice to the Owner, terminate performance under this Agreement and recover from the Owner payment for the actual reasonable expenditures of the Contractor (as limited in Subparagraph 10.3.2 above) for all Work executed and for materials, equipment, tools, construction equipment and machinery actually purchased or rented solely for the Work, less any salvage value of any such items.

12.1.2 If the Owner shall persistently or repeatedly fail to perform any material obligation to the Contractor for a period of fifteen (15) days after receiving written notice from the Contractor of its intent to terminate if such failure is not substantially corrected within fifteen (15) days, the Contractor may terminate performance under this Agreement by written notice to the Project Director. In such event, the Contractor shall be entitled to recover from the Owner as though the Owner had terminated the Contractor's performance under this Agreement for convenience pursuant to Subparagraph 12.2.1 hereunder.

### **12.2 Termination by the Owner**

#### **12.2.1 For Convenience**

12.2.1.1 The Owner may terminate this Agreement for convenience. In such instance, the Owner shall provide written notice of such termination to the Contractor specifying when termination shall become effective.

12.2.1.2 The Contractor shall incur no further obligations in connection with the Work and the Contractor shall stop Work when such termination becomes effective. The Contractor shall also terminate outstanding orders and subcontracts. The Contractor shall settle liabilities and claims arising out of the termination of subcontracts and orders. The Owner may direct the Contractor to assign the Contractor's right, title and interest under terminated orders or subcontracts to the Owner or its designee.

12.2.1.3 The Contractor shall transfer title and deliver to the Owner such completed or partially completed Work and materials, equipment, parts, fixtures, information and Contract rights as the Contractor has.

12.2.1.4 (a) The Contractor shall submit a termination claim to the Project Director specifying the amounts due because of the termination for convenience together with costs, pricing or other data required by the Project Director.

If the Contractor fails to file a termination claim within one (1) year from the effective date of termination, the Owner shall pay the Contractor, an amount derived in accordance with subparagraph (c) below.

- (b) The Owner and the Contractor may agree to compensation, if any, due to the Contractor hereunder.
- (c) Absent agreement to the amount due to the Contractor, the Owner shall pay the Contractor the following amounts;
- (d) Contract prices for labor, materials, equipment, and other services accepted under this Agreement;
- (e) Reasonable costs incurred in preparing to perform and in performing a portion of the Work prior to termination and not included in (d) or (e), and in terminating the Contractor's performance, plus a fair and reasonable allowance for overhead and profit thereon (such profit shall not include anticipated profit or consequential damages); provided, however, that if it appears that the Contractor would have not profited or would have sustained a loss if the entire Contract had been completed, no profit shall be allowed or included and the amount of compensation shall be reduced to reflect the anticipated rate of loss, if any;
- (f) Reasonable costs of settling and paying claims arising out of the termination of Subcontracts or orders pursuant to Subparagraph 12.2.1.2 of this Paragraph. These costs shall not include amounts paid in accordance with other provisions hereof.

The total sum to be paid the Contractor under this Subparagraph 12.2.1 shall not exceed the total Contract Price; as properly adjusted, reduced by the amount of payments otherwise made, and shall in no event include duplication of payment.

#### **12.2.2 For Cause**

12.2.2.1 If the Contractor persistently or repeatedly refuses or fails to perform the Work in a timely manner, supply enough properly skilled Workers, supervisory personnel or proper equipment or materials, or if it fails to make prompt payment to Subcontractors, or for materials or labor, or persistently disregards laws, ordinances, rules, regulations or orders of any public authority having jurisdiction, or otherwise substantially violates a material provision of this Agreement, then the Owner may, by written notice to the Contractor, without prejudice to any other right or remedy, terminate the employment of the Contractor and take possession of the site and of all materials, equipment, tools, construction equipment and machinery thereon owned by the Contractor and may finish the Work by whatever methods it may deem expedient. In such case, the Contractor shall not be entitled to receive any further payment until the Work is finished.

12.2.2.2 If the unpaid balance of the Contract Price less any liquidated damages due under this Agreement, exceeds the cost of finishing the Work, including compensation for the Project Director's additional services and expenses made necessary thereby, such exceed the unpaid balance, the Contractor shall pay the difference to the Owner. This obligation for payment shall survive the termination of the Contract.

12.2.2.3 In the event the employment of the Contractor is terminated by the Owner for cause pursuant to Subparagraph 12.2.2 and it is subsequently determined by a Court of competent jurisdiction that such termination was without cause, such termination shall thereupon be deemed a Termination for Convenience under Subparagraph 12.2.1 and the provisions of Subparagraph 12.2.1 shall apply.

### **ARTICLE XIII INSURANCE**

#### **13.1 Contractor's Insurance:**

The Contractor shall not commence work under this Agreement until he/she has obtained all insurance required under this section and such insurance has been approved by the County. All insurance policies shall be issued by companies authorized to do business under the laws of the State of Florida. The Contractor shall furnish proof of Insurance to the County prior to the commencement of operations. The Certificate(s) shall clearly indicate the Contractor has obtained insurance of the type, amount, and classification as required by contract and that no material change or cancellation of the insurance shall be effective without thirty (30) days prior written notice to the County. **Certificates shall specifically include the County as Additional Insured for all lines of coverage except Workers' Compensation and Professional Liability. A copy of the endorsement must accompany the certificate.** Compliance with the foregoing requirements shall not relieve the Contractor of its liability and obligations under this Agreement.

Certificate Holder Address: St. Johns County, a political subdivision of the State of Florida  
500 San Sebastian View  
St. Augustine, FL 32084

The Contractor shall maintain during the life of this Agreement, Comprehensive General Liability Insurance with minimum limits of \$1,000,000 per occurrence, \$2,000,000 aggregate, to protect the Contractor from claims for damages for bodily injury, including wrongful death, as well as from claims of property damages which may arise from any operations under this contract, whether such operations be by the Contractor or by anyone directly employed by or contracting with the Contractor.

The Contractor shall maintain Umbrella or Excess Liability Insurance covering workers compensation, commercial general liability and business auto liability with minimum limits of liability of \$1,000,000.

The Contractor shall maintain during the life of this Contract, Comprehensive Automobile Liability Insurance with minimum limits of \$300,000 combined single limit for bodily injury and property damage liability to protect the Contractor from claims for damages for bodily injury, including the ownership, use, or maintenance of owned and non-owned automobiles, including rented/hired automobiles whether such operations be by the Contractor or by anyone directly or indirectly employed by a Contractor.

The Contractor shall maintain during the life of this Agreement, adequate Workers' Compensation Insurance in at least such amounts as is required by the law for all of its employees per Florida Statute 440.02.

The Contractor shall maintain during the life of this Agreement, Professional Liability or Errors and Omissions Insurance with minimum limits of \$1,000,000, if applicable.

In the event of unusual circumstances, the County Administrator or his designee may adjust these insurance requirements.

#### **ARTICLE XIV MISCELLANEOUS**

##### **14.1 Governing Law & Venue**

14.1.1 The Contract shall be governed by the laws of the State of Florida. Venue for any administrative and/or legal action arising under the Contract shall be St. Johns County, Florida.

##### **14.2 Successors and Assigns**

14.2.1 The Owner and Contractor bind themselves, their successors, assigns and legal representatives to the other party hereto and to successors; assigns and legal representatives of such other party in respect to covenants, agreements and obligations contained in this Agreement. The Contractor shall not assign this Agreement without written consent of the Owner.

##### **14.3 Surety Bonds**

14.3.1 The Contractor shall furnish a separate Public Construction Bond to the Owner. Such Bonds shall set forth a penal sum in an amount not less than the Contract Price. The Bond furnished by the Contractor shall incorporate by reference the terms of this Agreement as fully as though they were set forth verbatim in such Bonds. The Public Construction Bond shall provide that in the event the Contract Price is adjusted by Change Order executed by the Contractor. The Public Construction Bond furnished by the Contractor shall be in form suitable to the Owner and shall be executed by a Surety, or Sureties, reasonably suitable to the Owner.

##### **14.4 Safety of Persons and Property**

14.4.1 When existing utility lines shown on the Drawings are to be removed or relocated, the Contractor shall notify the Engineer in ample time for taking measures for prevention of the interruption of any required services prior to the beginning of operations. In the event that the Contractor damages any existing utility lines not shown on the Drawings, the location of which is not known to the Contractor report thereof shall be made immediately to the Engineer.

14.4.2 Locations of existing utility lines shown on the Drawings are based on the best information available to the Engineer, but shall not be considered exact either as to location or number of such lines.

14.4.3 Contractor shall protect utility lines constructed under terms of the agreement and those discovered or shown on Drawings to be existing. Damage occurring to utility lines due to Contractor's operations shall be repaired at no cost to the Owner.

## **ARTICLE XV EQUAL EMPLOYMENT OPPORTUNITY**

### **15.1 Contractor's Employment Opportunity**

15.1.1 The Contractor and all Subcontractors shall not discriminate against any employee or applicant for employment because of race, religion, color, sex, national origin or age.

The Contractor shall take affirmative action to insure that applicants are employed, and that employees are treated during employment without regard to their race, religion, color, sex, national origin or age. Such action shall include, but not be limited to, the following: employment, upgrading, demotion or transfer, recruitment or recruitment advertisement, layoff or termination, rates of pay or other forms of compensation, and selection for training, including apprenticeship. The Contractor agrees to post in conspicuous places, available to employees and applicants for employment, notices setting forth the policies of non-discrimination.

15.1.2 The Contractor and all Subcontractors shall, in all solicitations or advertisements for employees placed by them or on their behalf, state that all qualified applicants shall receive consideration for employment without regard to race, religion, color, sex, national origin or age.

## **ARTICLE XVI APPRENTICESHIP LAW REQUIREMENTS**

### **16.1 Apprenticeship Law (Chapter 446, Florida Statutes)**

16.1.1 The Contractor shall make a diligent effort to hire for Performance of the Contract a number of apprentices in each occupation which bears to the average number of journeyman in that occupation to be employed in the performance of the Contract, the ratio of at least one (1) apprentice or trainee to every five (5) journeymen.

16.1.2 The Contractor shall, when feasible and except when the number of apprentices or trainees to be hired is fewer than four (4), assure that twenty-five (25) percent of such apprentices or trainees are in their first year of training. Feasibility here involves a consideration of the availability of training opportunities for first year apprentices or trainees, the hazardous nature of the Work for beginning workers, and excessive unemployment of apprentices or trainees in their second or subsequent years of training.

16.1.3 The Contractor, during the performance of the Contract, shall make diligent efforts to employ the number of apprentices or trainees necessary to meet requirements of Subparagraphs a. and b. However, on-the-job training programs shall only be established in non-apprenticable trades or occupations to meet the requirements of this section.

16.1.4 The Contractor agrees to return records of employment, by trade, of the number of apprentices or trainees by first year of training, and the number of journeymen and the wages paid, and hours of work, of such persons on a form as prescribed by the Bureau of Apprenticeship of the Division of Labor at three (3) month intervals. Submission of duplicate copies of forms submitted to the United States Department of Labor shall be sufficient compliance with the provisions of the section.

16.1.5 The Contractor agrees to supply the Bureau of Apprenticeship of the Division of Labor, at three (3) months intervals, a statement describing steps taken toward making diligent effort and containing a breakdown by craft or hours worked and wages paid for first year apprentices or trainees, other apprentices or trainees and journeymen.

16.1.6 The Contractor agrees to insert in any Subcontract under this Agreement the requirements contained in this section. "The term Contractor" as used in such clauses and any Subcontract shall mean the Subcontractor.

16.1.7 Anything herein to the Contrary notwithstanding, Contractor agrees to comply with all of the provisions of Florida Statutes 446 and all regulations prescribed by the Bureau of Apprenticeship of the Division of Labor.



**ARTICLE XVII  
PUBLIC RECORDS**

**17.1 Public Records**

17.1.1 The cost of reproduction, access to, disclosure, non-disclosure, or exemption of records, data, documents, and/or materials, associated with this Agreement shall be subject to the applicable provisions of the Florida Public Records Law (Chapter 119, Florida Statutes), and other applicable State and Federal provisions. Access to such public records, may not be blocked, thwarted, and/or hindered by placing the public records in the possession of a third party, or an unaffiliated party.

17.1.2 In accordance with Florida law, to the extent that Contractor's performance under this Contract constitutes an act on behalf of the County, Contractor shall comply with all requirements of Florida's public records law. Specifically, if Contractor is expressly authorized, and acts on behalf of the County under this Agreement, Contractor shall:

- (1) Keep and maintain public records that ordinarily and necessarily would be required by the County in order to perform the Services;
- (2) Upon request from the County's custodian of public records, provide the County with a copy of the requested records or allow the records to be inspected or copied within a reasonable time at a cost that does not exceed the cost as provided in Chapter 119, Florida Statutes, or as otherwise provided by law;
- (3) Ensure that public records related to this Agreement that are exempt or confidential and exempt from public records disclosure requirements are not disclosed except as authorized by applicable law for the duration of this Agreement and following completion of this Agreement if the Contractor does not transfer the records to the County; and
- (4) Upon completion of this Agreement, transfer, at no cost, to the County all public records in possession of the Contractor or keep and maintain public records required by the County to perform the Services.

17.1.3 If the Contractor transfers all public records to the County upon completion of this Agreement, the Contractor shall destroy any duplicate public records that are exempt or confidential and exempt from public records disclosure requirements. If the Contractor keeps and maintains public records upon completion of this Agreement, the Contractor shall meet all applicable requirements for retaining public records. All records stored electronically must be provided to the County, upon request from the County's custodian of public records, in a format that is compatible with the County's information technology systems.

17.1.4 Failure by the Contractor to comply with the requirements of this section shall be grounds for immediate, unilateral termination of this Agreement by the County.

**IF THE CONTRACTOR HAS QUESTIONS REGARDING THE APPLICATION OF CHAPTER 119, FLORIDA STATUTES, TO ITS DUTY TO PROVIDE PUBLIC RECORDS RELATING TO THIS AGREEMENT, CONTACT THE CUSTODIAN OF PUBLIC RECORDS AT: OCA, ATTN: Public Records Manager, 500 San Sebastian View, St. Augustine, FL 32084, PH: (904) 209-0805, EMAIL: [publicrecords@sjcfl.us](mailto:publicrecords@sjcfl.us).**

**BID NO: 19-27; REMINGTON FOREST DRIVE DRAINAGE IMPROVEMENTS**

**Master Contract #: 19-MCS-GHU-10505**

**Owner**

**St. Johns County, FL** (Seal)  
(Typed Name)

By: \_\_\_\_\_  
Signature of Authorized Representative

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

\_\_\_\_\_  
Title

\_\_\_\_\_  
Date of Execution

**Contractor**

**G&H Underground Construction, Inc.** (Seal)  
(Typed Name)

By: \_\_\_\_\_  
Signature of Authorized Representative

\_\_\_\_\_  
Printed Name & Title

\_\_\_\_\_  
Date of Execution

**ATTEST:**  
**St. Johns County, FL**  
**Clerk of Courts**

By: \_\_\_\_\_  
Deputy Clerk

\_\_\_\_\_  
Date of Execution

**Legally Sufficient:**

\_\_\_\_\_  
Deputy County Attorney

\_\_\_\_\_  
Date of Execution



## St. Johns County Board of County Commissioners

Purchasing Division

### NOTICE OF INTENT TO AWARD

March 20, 2019

**RE:** Bid No: 19-27; Remington Forest Drive Drainage Improvements

Please be advised that the Purchasing Department of the St. Johns County is issuing this notice of its Intent to Award a contract to G&H Underground Construction, Inc. as the lowest responsive, responsible bidder for Bid No: 19-27; Remington Forest Drive Drainage Improvements. This notice will remain posted on the **St. Johns County Purchasing Department bulletin board** until 5:00 PM, Monday, March 25, 2019.

Any person (including any bidder or proposer) who is, or claims to be, adversely affected by the County's decision or proposed decision shall file a written Notice of Protest with the Purchasing Department of St. Johns County within 72 hours after the posting of the notice of decision or proposed decision. Failure to file a Notice of Protest within the time prescribed in Section 304.10 of the St. Johns County Purchasing Manual (the Bid Protest Procedure), or failure to post the bond or other security required by the County within the time allowed for filing a bond, shall constitute a waiver of proceedings and a waiver of the right to protest. The protest procedures may be obtained from the Purchasing Department and are included in the County's Purchasing Manual. All of the terms and conditions of the County Purchasing Manual are incorporated herein by reference and are fully binding.

Should the Purchasing Department receive no protests in response to this notice, an agenda item will be submitted to the St. Johns County Board of County Commissioners for their consideration and subsequent approval to award a contract.

Please forward all correspondence, requests or inquiries directly to Diana M. Fye, AS, CPPB, Procurement Coordinator at [dfye@sjcfl.us](mailto:dfye@sjcfl.us).

Sincerely,

*St. Johns County*

*Board of County Commissioners*

A handwritten signature in black ink, appearing to read "Jaime T. Locklear".

County Representative Signature

Date: 3/20/19

Jaime T. Locklear, MPA, CPPO, CPPB, FCCM  
Purchasing Manager  
(904) 209-0158 – Direct  
(904) 209-0159 – Fax  
[jlocklear@sjcfl.us](mailto:jlocklear@sjcfl.us)



**ST. JOHNS COUNTY  
PURCHASING DEPARTMENT**

500 San Sebastian View  
St. Augustine, Florida 32084

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**I N T E R O F F I C E   M E M O R A N D U M**

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**TO:** Douglas Tarbox, Project manager  
**FROM:** Diana M. Fye, AS, CPPB, Procurement Coordinator  
**SUBJECT:** Bid # 19-27; Remington Forest Drive Drainage Improvements  
**DATE:** January 16, 2019

Attached are copies of the bid proposals received for the above mentioned along with a copy of the Bid Tabulation Sheet.

Please review, evaluate and make a written recommendation for this project. Also, indicate the budgeted amount for this item along with the appropriate charge code and return at your earliest convenience. We will prepare the agenda item and contract.

Please let me know if I can assist your department in any other way.

Dept. Approval

Date

2/14/19

Budget Amount

\$456,915

Account Funding Title

IMPACT FEES - ZONE A - IMPROVEMENTS OFF BIDS.

Funding Charge Code

1185-56301-5255-56301

Award to

G+H UNDERGROUND CONSTRUCTION

Award Amount

\$390,000.00

**ST. JOHNS COUNTY  
BID TABULATION**

**BID TITLE** REMINGTON FOREST DRIVE DRAINAGE IMPROVEMENTS

---

**BID NUMBER** 19-27

**OPENING DATE/TIME** January 16, 2019 2:00 PM

ANY BIDDER AFFECTED ADVERSELY BY AN INTENDED  
DECISION WITH RESPECT TO THE AWARD OF ANY BID,  
SHALL FILE WITH THE PURCHASING DEPARTMENT FOR  
ST. JOHNS COUNTY, A WRITTEN NOTICE OF INTENT  
FILE A PROTEST NOT LATER THAN SEVENTY-TWO (72)  
HOURS (EXCLUDING SATURDAY, SUNDAY AND LEGAL  
HOLIDAYS) AFTER THE POSTING OF THE BID TABULATION  
PROTEST PROCEDURES MAY BE OBTAINED IN THE  
PURCHASING DEPARTMENT.

**OPENED BY**  
**TABULATED BY**  
**VERIFIED BY**

DIANA M FYE *DF*  
SHELLY VONGCHANTA *(Signature)*  
*(Signature)*

**POSTING DATE/TIME** FROM 01/16/19 3:00 PM

**UNTIL** 01/22/19 3:00 PM

BIDDERS	TOTAL LUMP SUM BID	BID BOND	ADDENDUM 1	ADDENDUM 2				
Besch and Smith Civil Group Inc.	\$563,928.69	Yes	Yes	No	Non-Responsive			
CGC, Inc.	\$596,449.00	Yes	Yes	Yes				
MAER Homes LLC dba MAER Construction	\$491,105.22	Yes	Yes	Yes	Non-Responsive			
G&H Underground Construction, Inc.	\$390,000.00	Yes	Yes	Yes				

BID AWARD DATE - \_\_\_\_\_

BID NO: 19-27

OFFICIAL COUNTY BID FORM  
ST. JOHNS COUNTY, FLORIDA

PROJECT: REMINGTON FOREST DRIVE DRAINAGE IMPROVEMENTS

TO: THE BOARD OF COUNTY COMMISSIONERS OF ST. JOHNS COUNTY, FLORIDA

DATE SUBMITTED: 1-16-2019

**BID PROPOSAL OF**

G&H Underground Construction, Inc

Full Legal Company Name

2200 N Ponce De Leon Blvd Ste 11 St Augustine, Fl. 32084

904-829-8199

904-810-0531

Mailing Address

Telephone Number

Fax Number

Bidders: Having become familiar with requirements of the project, and having carefully examined the Bidding Documents and Specifications entitled for Bid No: 19-27; Remington Forest Drive Drainage Improvements in St. Johns County, Florida, the undersigned proposes to furnish all materials, labor and equipment, supervision and all other requirements necessary to comply with the Contract Documents to submit the following Bid Proposal summarized as follows:

**TOTAL LUMP SUM BID PRICE:** (As per plans and specifications)

\$ 390,000.00

Total Lump Sum Bid Price (Numerical)

Three hundred ninety thousand

/100 Dollars

Total Lump Sum Bid Price (Amount written or typed in words)

Bidder shall insert the Total Lump Sum Bid Price in numerals and in words. Any discrepancy between the two submitted amounts shall be determined by the amount written in words.

**BID NO: 19-27**

During the preparation of the Bid, the following addenda, if any, were received:

No.: 1 Date Received: 12-20-18

No.: 2 Date Received: 1-9-19

No.: \_\_\_\_\_ Date Received:

We, the undersigned, hereby declare that no person or persons, firm or corporation, other than the undersigned are interested, in this proposal, as principals, and that this proposal is made without collusion with any person, firm or corporation, and we have carefully and to our satisfaction examined the Bid Documents and Project Specifications.

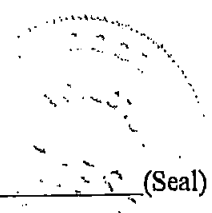
We have made a full examination of the location of the proposed work and the sources of supply of materials, and we hereby agree to furnish all necessary labor, equipment and materials, fully understanding that any quantities shown therewith are approximate only, and that we will fully complete all requirements therein as prepared by the Owner, within the same time limit specified in the Bid Documents as indicated above.

If the Undersigned is notified of the acceptance of this Bid Proposal by the Board within ninety (90) calendar days for the time set for the opening of Bids, the Undersigned further agrees, to execute a contract for the above work within ten (10) days after notice that his Bid has been accepted for the above stated compensation in the form of a Contract presented by the Owner.

The Undersigned further agrees that security in the form of a Bid Bond, certified or cashier's check in the amount of not less than five percent (5%) of Total Lump Sum Bid Price, payable to the Owner, accompanies this Bid; that the amount is not to be construed as a penalty, but as liquidated damages which said Owner will sustain by failure of the Undersigned to execute and deliver the Contract and Bond within ten (10) days of the written notification of the Award of the Contract to him; thereupon, the security shall become the property of the Owner, but if this Bid is not accepted within ninety (90) days of the time set for the submission of Bids, or if the Undersigned delivers the executed Contract upon receipt, the Security shall be returned to the Bidder within seven (7) working days.

BID NO: 19-27

**CORPORATE/COMPANY**



Full Legal Company Name: G&H Underground Construction, Inc (Seal)

By: Wade Gibby Wade Gibby, President  
Signature of Authorized Representative (Name & Title typed or printed)

By: \_\_\_\_\_  
Signature of Authorized Representative (Name & Title typed or printed)

Address: 2200 N Ponce De Leon Blvd. Ste 11 St Augustine, Fl. 32084  
Telephone No.: (904) 829-8199 Fax No.: (904) 810-0531

Email Address for Authorized Company Representative: ghunderground@bellsouth.net  
Federal I.D. Tax Number: 06-1747700 DUNS #: \_\_\_\_\_  
(If applicable)

**INDIVIDUAL**

Name: \_\_\_\_\_  
(Signature) (Name typed or printed) (Title)

Address: \_\_\_\_\_  
Telephone No.: ( ) \_\_\_\_\_ Fax No.: \_\_\_\_\_  
Email Address: \_\_\_\_\_  
Federal I.D. Tax Number: \_\_\_\_\_

- Submittal Requirements:
- Official County Unit Price Bid Form
  - Attachment "A" – St Johns County Board of County Commissioners Affidavit
  - Attachment "B" – Certificate as to Corporate Principal
  - Attachment "C" – License / Certification List
  - Attachment "D" – List of Proposed Sub-Contractors/Suppliers
  - Attachment "E" – Conflict of Interest Disclosure Form
  - Attachment "F" – Drug-Free Workplace Form
  - Attachment "G" – Proof of Insurance
  - Attachment "H" – Experience of Bidder Form
  - Attachment "I" – Claims, Liens, Litigation History
  - Attachment "J" – Certificate of Compliance with Florida Trench Safety Act
  - Bid Bond Form
  - Fully Acknowledged Addenda Applicable to this bid

Official County Bid Form. Attachments "A", "B", "C", "D", "E", "F", "G", "H", "I", "J" and Bid Bond must be completed, along with a fully acknowledged copy of each Addendum applicable to this Bid and submitted with each copy of the Bid Proposal. One (1) original and two (2) copies of all required forms must be submitted.



BID NO.: 19-27

REMINGTON FOREST DRIVE DRAINAGE IMPROVEMENTS

ATTACHMENT "A"

ST. JOHNS COUNTY, BOARD OF COUNTY COMMISSIONERS AFFIDAVIT

TO: ST. JOHNS COUNTY, BOARD OF COUNTY COMMISSIONERS, ST. JOHNS COUNTY, ST. AUGUSTINE, FLORIDA.

At the time the proposal is submitted, the Bidder shall attach to his Bid a sworn statement.

This sworn statement shall be an affidavit in the following form, executed by an officer of the firm, association, or corporation submitting the proposal, and shall be sworn to before a person who is authorized by law to administer oaths.

STATE OF FLORIDA, COUNTY OF ST. JOHNS

Before me, the Undersigned authority, personally appeared Wade Gibby who being duly sworn, deposes and says he is President (Title) of the firm of G&H Underground Construction, Inc Bidder submitting the attached proposal for the services covered by the bid documents for Bid No: 19-27; Remington Forest Drive Drainage Improvements, in St. Johns County, Florida.

The affiant further states that no more than one proposal for the above-referenced project will be submitted from the individual, his firm or corporation under the same or different name, and that such Bidder has no financial interest in the firm of another bidder for the same work. That neither he, his firm, association nor corporation has either directly or indirectly entered into any agreement, participated in any collusion, nor otherwise taken any action in restraint of free competitive bidding in connection with this firm's Bid on the above-described project. Furthermore, neither the firm nor any of its officers are barred from participating in public contract lettings in the State of Florida or any other state.

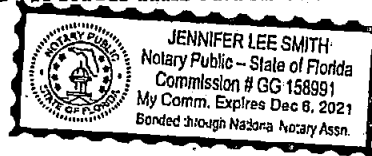
G&H Underground Construction, Inc (Bidder) By: Wade Gibby President (Title)

Sworn and subscribed to me this 16th day of January, 2019.

Notary Public: Jennifer Smith Signature Jennifer Smith Printed

My commission Expires: 12-06-2021

BIDDER ON ALL COUNTY PROJECTS MUST EXECUTE AND ATTACH THIS AFFADAVIT TO EACH BID.



BID NO.: 19-27

REMINGTON FOREST DRIVE DRAINAGE IMPROVEMENTS

ATTACHMENT "B"

CERTIFICATES AS TO CORPORATE PRINCIPAL

I, Wade Gibby, certify that I am the Secretary of the Corporation named as Principal in the attached bond; that who signed the said bond on behalf of the Principal, was then President of said Corporation; that I know his signature, and his signature hereto is genuine; and that said bond was duly signed, sealed, and attested for and in behalf of said Corporation by authority of its governing body.

Wade Gibby  
Secretary Corporate Seal

(STATE OF FLORIDA  
COUNTY OF ST. JOHNS)

Before me, a Notary Public duly commissioned, qualified and acting, personally appeared Wade Gibby to me well known, who being by me first duly sworn upon oath, says that he is the Attorney-In-Fact, for the Merchants Bonding Surety and that he has been authorized by Merchants Bonding to execute the foregoing bond on behalf of the surety named therein in favor of St. Johns County, Florida.

Subscribed and sworn to me this 16 day of January, 2019, A.D.

NOTARY PUBLIC  
State of Florida-at-large

Jennifer Lee Smith

My Commission Expires: 12-06-2021



(Attach Power of Attorney to original Bid Bond and Financial Statement of Surety Company)

BID NO.: 19-27

REMINGTON FOREST DRIVE DRAINAGE IMPROVEMENTS

ATTACHMENT "C"

LICENSE / CERTIFICATION LIST

In the space below, the Bidder shall list all current licenses and certifications held.

*The bidder shall attach a copy of each current license or certification listed below to this form.  
Proof of FDOT Pre-Certification must also be attached.*

License Name	License #	Issuing Agency	Expiration Date
Underground Utility & Excavation	CUC1224124	Dept of Business & Professional Reg	8-31-2020
St Johns Local Business Tax Receipt		St Johns County	9-30-2019
FDOT approved Drainage, Flexible Paving, Grading, Grassing, Seeding, Sodding, Sidewalk, Water, and Sewer		Florida Dept of Transportation	6-30-19

THIS RECEIPT IS ISSUED PURSUANT TO COUNTY ORDINANCE

**2018/2019 ST. JOHNS COUNTY  
LOCAL BUSINESS TAX RECEIPT**  
MUST BE DISPLAYED IN CONSPICUOUS PLACE

ACCOUNT 25043  
EXPIRES September 30, 2019

TYPE OF BUSINESS 000264 LAND CLEARING SERVICE

BUSINESS ADDRESS 2200 N PONCE DE LEON BLVD STE 11  
ST AUGUSTINE, FL 32084

BUSINESS NAME G & H CONSTRUCTION  
OWNER GIBBY WADE D & HARDWICK JEFFERY

MAILING ADDRESS 2200 N PONCE DE LEON BLVD #11  
ST AUGUSTINE, FL 32084



X NEW BUSINESS TRANSFER ORIGINAL TAX 22.00  
AMOUNT 22.00  
PENALTY .00  
COLLECTION COST  
TOTAL 22.00

DENNIS W. HOLLINGSWORTH

ST. JOHNS COUNTY TAX COLLECTOR

This receipt does not constitute a franchise, an agreement or permission or authority to perform the services or operate the business described hereon, when a franchise agreement, or county, commission, state or federal permission or authority is required by county, state or federal law.

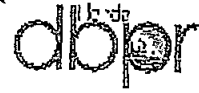
THIS FORM BECOMES A RECEIPT ONLY WHEN VALIDATED

PAID 8145650-0000-0000-500 07/19/2018 22.00



RICK SCOTT, GOVERNOR

JONATHAN ZACHEM, SECRETARY



STATE OF FLORIDA  
DEPARTMENT OF BUSINESS AND PROFESSIONAL REGULATION

CONSTRUCTION INDUSTRY LICENSING BOARD

THE UNDERGROUND UTILITY & EXCAVATION CO. HEREIN IS CERTIFIED UNDER THE  
PROVISIONS OF CHAPTER 489, FLORIDA STATUTES.

HARDWICK, JEFFERY L.  
G & H UNDERGROUND CONSTRUCTION INC  
14980 PORTER ROAD  
ST AUGUSTINE FL 32095

LICENSE NUMBER: CUC1224124

EXPIRATION DATE: AUGUST 31, 2020

Always verify licenses online at [MyFloridaLicense.com](http://MyFloridaLicense.com)



*Florida Department of Transportation*

RICK SCOTT  
GOVERNOR

605 Suwannee Street  
Tallahassee, FL 32399-0450

MIKE DEW  
SECRETARY

3/15/2018

G&H UNDERGROUND CONSTRUCTION INC  
2200 N PONCE DE LEON BLVD  
ST AUGUSTINE, FLORIDA 32084

RE: CERTIFICATE OF QUALIFICATION

Dear Sir/Madam:

The Department of Transportation has qualified your company for the type of work indicated below. Unless your company is notified otherwise, this Certificate of Qualification will expire 6/30/2019. However, the new application is due 4/30/2019.

In accordance with S.337.14 (1) F.S. your next application must be filed within (4) months of the ending date of the applicant's audited annual financial statements.

If your company's maximum capacity has been revised, you can access it by logging into the Contractor Prequalification Application System via the following link:

[HTTPS://fdotwpl.dot.state.fl.us/ContractorPreQualification/](https://fdotwpl.dot.state.fl.us/ContractorPreQualification/)

Once logged in, select "View" for the most recently approved application, and then click the "Manage" and "Application Summary" tabs.

**FDOT APPROVED WORK CLASSES;**

DRAINAGE, FLEXIBLE PAVING, GRADING, GRASSING, SEEDING AND SODDING, SIDEWALK, Underground Utilities (Water & Sewer).

You may apply for a Revised Certificate of Qualification at any time prior to the expiration date of this certificate according to Section 14-22.0041(3), Florida Administrative Code (F.A.C.), by accessing your most recently approved application as shown above and choosing "Update" instead of "View." If certification in additional classes of work is desired, documentation is needed to show that your company has done such work with your own forces and equipment or that experience was gained with another contractor and that you have the necessary equipment for each additional class of work requested.

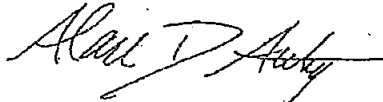
G&H Underground Construction, Inc.

Page Two

3/15/2018

All prequalified contractors are required by Section 14-22.006(3), F.A.C., to certify their work underway monthly in order to adjust maximum bidding capacity to available bidding capacity. You can find the link to this report at the website shown above.

Sincerely,

A handwritten signature in black ink, appearing to read "Alan Autry". The signature is fluid and cursive, with a long horizontal stroke extending to the right.

Alan Autry, Manager  
Contracts Administration Office

AA:  
JT:

**BID NO.: 19-27**

**REMINGTON FOREST DRIVE DRAINAGE IMPROVEMENTS**

**ATTACHMENT "D"**

**LIST OF PROPOSED SUBCONTRACTORS/SUPPLIERS**

All subcontractors are subject to approval of County. The following are subcontractors proposed to be used in connection with this work:

**DIVISION OF WORK**

**NAME & ADDRESS OF SUBCONTRACTORS/SUPPLIERS**

Asphalt

Keelco - 542752 US Hwy 1 Callahan, Fl. 32011

Survey and Asbuilts

A&J Land Surveyors - 5847 Luella St. Jacksonville, Fl. 32207

Poured in place concrete

Curb Systems -101 Canova Ct. St Augustine, Fl. 32086



BID NO.: 19-27

REMINGTON FOREST DRIVE DRAINAGE IMPROVEMENTS

ATTACHMENT "E"

St. Johns County Board of County Commissioners

CONFLICT OF INTEREST DISCLOSURE FORM

Project (RFQ, RFP, BID) Number/Description: Bid No 19-27; Remington Forest Drive Drainage Improvements

The term "conflict of interest" refers to situations in which financial or other considerations may adversely affect, or have the appearance of adversely affecting a consultant's/contractor's professional judgment in completing work for the benefit of St. Johns County ("County"). The bias such conflicts could conceivably impart may inappropriately affect the goals, processes, methods of analysis or outcomes desired by the County.

Consultants/Contractors are expected to safeguard their ability to make objective, fair, and impartial decisions when performing work for the benefit of the County. Consultants/Contractors, therefore must there avoid situations in which financial or other considerations may adversely affect, or have the appearance of adversely affecting the consultant's/contractor's professional judgement when completing work for the benefit of the County.

The mere appearance of a conflict may be as serious and potentially damaging as an actual distortion of goals, processes, and methods of analysis or outcomes. Reports of conflicts based upon appearances can undermine public trust in ways that may not be adequately restored even when the mitigating facts of a situation are brought to light. Apparent conflicts, therefore, should be disclosed and evaluated with the same vigor as actual conflicts.

It is expressly understood that failure to disclose conflicts of interest as described herein may result in immediate disqualification from evaluation or immediate termination from work for the County.

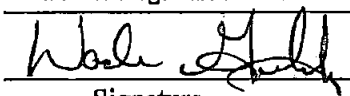
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Please check the appropriate statement:

I hereby attest that the undersigned Respondent has no actual or potential conflict of interest due to any other clients, contracts, or property interests for completing work on the above referenced project.

The undersigned Respondent, by attachment to this form, submits information which may be a potential conflict of interest due to other clients, contracts or property interests for completing work on the above referenced project.

Legal Name of Respondent: G&H Underground Construction, Inc

Authorized Representative(s) :  Wade Gibby, President  
Signature Print Name/Title

\_\_\_\_\_  
Signature Print Name/Title

BID NO.: 19-27

**REMINGTON FOREST DRIVE DRAINAGE IMPROVEMENTS**

**St. Johns County Board of County Commissioners**

**ATTACHMENT "T"**

**DRUG-FREE WORKPLACE FORM**

The undersigned firm, in accordance with Florida Statute 287.087 hereby certifies that

G&H Underground Construction, Inc does:

Name of Firm

1. Publish a statement notifying employees that the unlawful manufacture, distribution, dispensing, possession or use of a controlled substance is prohibited in the workplace and specifying the actions that will be taken against employees for violations of such prohibition.
2. Inform employees about the danger of drug abuse in the workplace, the business' policy of maintaining a drug-free workplace, any available drug counseling, rehabilitation, employee assistance programs and the penalties that may be imposed upon employees for drug abuse violations.
3. Give each employee engaged in providing the contractual services that are described in St. Johns County's request for proposals to provide bond underwriter services a copy of the statement specified in paragraph 1.
4. In the statement specified in paragraph 1, notify the employees that, as a condition of working on the contractual services described in paragraph 3, the employee will abide by the terms of the statement and will notify the employer of any conviction of, or plea of guilty or nolo contendere to, any violation of Florida Statute 893, as amended, or of any controlled substance law of the United States or any state, for a violation occurring in the workplace no later than five (5) days after such conviction or plea.
5. Impose a sanction on, or require the satisfactory participation in a drug abuse assistance or rehabilitation program if such is available in the employee's community by, any employee who is so convicted.
6. Consistent with applicable provisions with State or Federal law, rule, or regulation, make a good faith effort to continue to maintain a drug-free workplace through implementation of paragraphs 1 through 5.

As the person authorized to sign this statement, I certify that this firm complies fully with the above requirements.

  
Signature

1-16-19  
Date

**BID NO.: 19-27**

**REMINGTON FOREST DRIVE DRAINAGE IMPROVEMENTS**

**ATTACHMENT "G"**

**CERTIFICATE OF INSURANCE**

(Attach or insert copy here)



G&HUNDE-01

JSMITH

# CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY)  
09/05/2018

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

IMPORTANT: If the certificate holder is an ADDITIONAL INSURED, the policy(ies) must have ADDITIONAL INSURED provisions or be endorsed. If SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).

<b>PRODUCER</b> Cecil W. Powell & Company 219 N. Newnan Street Jacksonville, FL 32202	<b>CONTACT NAME:</b> Joanne Smith, CIC	
	<b>PHONE (A/C, No, Ext):</b> (904) 353-3181	<b>FAX (A/C, No):</b> (904) 353-5722
<b>E-MAIL ADDRESS:</b> Jsmith@cwpowellins.com		
<b>INSURER(S) AFFORDING COVERAGE</b>		<b>NAIC #</b>
<b>INSURER A:</b> Southern Owners Ins Co		10190
<b>INSURER B:</b> Owners Insurance Co		32700
<b>INSURER C:</b> Bridgefield Casualty Ins Co		10335
<b>INSURER D:</b>		
<b>INSURER E:</b>		
<b>INSURER F:</b>		

**INSURED**

G & H Underground Construction, Inc.  
 2200 N. Ponce de Leon Blvd., Ste. 11  
 Saint Augustine, FL 32084-2650

**COVERAGES**                      **CERTIFICATE NUMBER:**                      **REVISION NUMBER:**

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

INSR LTR	TYPE OF INSURANCE	ADDL INSD	SUBR WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS
A	<input checked="" type="checkbox"/> COMMERCIAL GENERAL LIABILITY <input type="checkbox"/> CLAIMS-MADE <input checked="" type="checkbox"/> OCCUR  GEN'L AGGREGATE LIMIT APPLIES PER: <input type="checkbox"/> POLICY <input checked="" type="checkbox"/> PROF SUBJECT <input type="checkbox"/> LOC OTHER:		X	7824226118	06/07/2018	06/07/2019	EACH OCCURRENCE \$ 1,000,000 DAMAGE TO RENTED PREMISES (Ea occurrence) \$ 300,000 MED EXP (Any one person) \$ 10,000 PERSONAL & ADV INJURY \$ 1,000,000 GENERAL AGGREGATE \$ 2,000,000 PRODUCTS - COMP/OP AGG \$ 2,000,000
B	AUTOMOBILE LIABILITY <input checked="" type="checkbox"/> ANY AUTO OWNED AUTOS ONLY <input type="checkbox"/> SCHEDULED AUTOS <input type="checkbox"/> HIRED AUTOS ONLY <input type="checkbox"/> NON-OWNED AUTOS ONLY			5124226100	06/07/2018	06/07/2019	COMBINED SINGLE LIMIT (Ea accident) \$ 1,000,000 BODILY INJURY (Per person) \$ BODILY INJURY (Per accident) \$ PROPERTY DAMAGE (Per accident) \$
A	<input checked="" type="checkbox"/> UMBRELLA LIAB <input checked="" type="checkbox"/> OCCUR <input type="checkbox"/> EXCESS LIAB <input type="checkbox"/> CLAIMS-MADE DED <input checked="" type="checkbox"/> RETENTION \$ 0			5124226101	06/07/2018	06/07/2019	EACH OCCURRENCE \$ 2,000,000 AGGREGATE \$ 2,000,000
C	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER MEMBER EXCLUDED? (Mandatory in FL) If yes, describe under DESCRIPTION OF OPERATIONS below		Y/N N/A	19643270	06/07/2018	06/07/2019	<input checked="" type="checkbox"/> PER STATUTE <input type="checkbox"/> OTHER E.L. EACH ACCIDENT \$ 1,000,000 E.L. DISEASE - EA EMPLOYEE \$ 1,000,000 E.L. DISEASE - POLICY LIMIT \$ 1,000,000

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (ACORD 101, Additional Remarks Schedule, may be attached if more space is required)  
 St. Johns County is an additional insured with respect to general liability per the attached policy forms.

<b>CERTIFICATE HOLDER</b>  St. Johns County Board of County Commissioners Attn: Purchasing Office 2446 Dobbs Road St. Augustine, FL 32086	<b>CANCELLATION</b>  SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS.  AUTHORIZED REPRESENTATIVE <i>Susan Jordan</i>
--	---

BID NO.: 19-27

REMINGTON FOREST DRIVE DRAINAGE IMPROVEMENTS

ATTACHMENT "H"

EXPERIENCE OF BIDDER

Bidder acknowledges that he is fully licensed to perform work in the STATE OF FLORIDA.

The Bidder shall provide the following information regarding experience within the past five (5) years of this solicitation. Bidder must demonstrate the successful completion of three (3) projects of similar complexity, nature, size, and dollar amount of project.

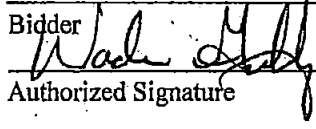
Any material misrepresentation, as determined by the County, shall result in disqualification.

By: G&H Underground Construction, Inc

1-16-19

Bidder

Date

  
Authorized Signature

DATE OF CONTRACT	CLIENT'S NAME, ADDRESS, PHONE AND EMAIL	CONTRACT AMOUNT	PROJECT AND LOCATION
1-20-2016	City of Jacksonville Beach 1460 A Shetter Ave Jacksonville Beach, Fl. 32250	1,303,134.40	Ocean Forest Drainage Improvements Jacksonville Beach
October 2017	Uniflorida IV LLC 5975 Sunset Drive Miami, Fl. 33143	3,798,772.34	Villages of Selo 3A & 3B St Augustine, Fl
March 2017	Uniflorida IV LLC 5975 Sunset Drive Miami, Fl. 33143	1,343,702.90	Villages of Selo 2B St Augustine, Fl

BID NO.: 19-27

REMINGTON FOREST DRIVE DRAINAGE IMPROVEMENTS

Attachment "I"

CLAIMS, LIENS, LITIGATION HISTORY

(Complete and Submit)

1. Within the past 7 years, has your organization filed suit or a formal claim against a project owner (as a prime or subcontractor) or been sued by or had a formal claim filed by an owner, subcontractor or supplier resulting from a construction dispute? Yes \_\_\_\_\_ No  If yes, please attach additional sheet(s) to include:

Description of every action Captions of the Litigation or Arbitration.

Amount at issue: \_\_\_\_\_ Name (s) of the attorneys representing all parties:

Amount actually recovered, if any: \_\_\_\_\_

Name(s) of the project owner(s)/manager(s) to include address and phone number:

2. List all pending litigation and or arbitration.
3. List and explain all litigation and arbitration within the past seven (7) years - pending, resolved, dismissed, etc.
4. Within the past 7 years, please list all Liens, including Federal, State and Local, which have been filed against your Company. List in detail the type of Lien, date, amount and current status of each Lien.

N/A

5. Have you ever abandoned a job, been terminated or had a performance/surety bond called to complete a job?

Yes \_\_\_\_\_ No  If yes, please explain in detail:

6. For all claims filed against your company within the past five-(5) years, have all been resolved satisfactorily with final judgment in favor of your company within 90 days of the date the judgment became final? Yes \_\_\_\_\_ No \_\_\_\_\_  
If no, please explain why? N/A

7. List the status of all pending claims currently filed against your company:

Liquidated Damages

1. Has a project owner ever withheld retainage, issued liquidated damages or made a claim against any Performance and Payment Bonds? Yes \_\_\_\_\_ No  If yes, please explain in detail:

(Use additional or supplemental pages as needed)

BID NO.: 19-27

REMINGTON FOREST DRIVE DRAINAGE IMPROVEMENTS

ATTACHMENT "J"

CERTIFICATE OF COMPLIANCE WITH FLORIDA TRENCH SAFETY ACT

Bidder acknowledges that he is solely responsible for complying with the Florida Trench Safety Act (ACT) and Occupational Safety and Health Administrations excavation safety standard 29 CFR 1926.650 (Subpart P as amended) and the St. Johns County Trenching and Excavation Safety Program. If there is a conflict between the ACT and the St. Johns County Trenching and Excavation Safety Program, the more stringent requirement would apply. Bidder further acknowledges that included in the various items of the proposal and in the Total Bid Price are costs for complying with the Florida Trench Safety Act (90-96, Laws of Florida) effective October 1, 1990 and the Occupational Safety and Health Administrations excavation safety standard.

By: Wade Hill  
G&H Underground Construction, Inc

Bidder

1-16-19  
Date

Wade Hill  
Authorized Signature

BID NO.: 19-27

REMINGTON FOREST DRIVE DRAINAGE IMPROVEMENTS

BID BOND

STATE OF FLORIDA  
COUNTY OF ST. JOHNS

KNOW ALL MEN BY THESE PRESENTS, that G & H Underground Construction, Inc. as Principal, and as Surety, are held and firmly bound unto St. Johns County, Florida, in the penal sum of 5% of Total Bid Dollars (\$ 5% ) lawful money of the United States, we bind ourselves, our heirs, executors, administrators, and successors, jointly and severally, firmly by these presents.

\*Merchants Bonding Company

THE CONDITION OF THIS OBLIGATIONS IS SUCH that whereas the Principal has submitted the accompanying Bid, dated January 16th, 2019.

For  
REMINGTON FOREST DRIVE DRAINAGE IMPROVEMENTS  
St. Johns County, Florida

NOW THEREFORE,

- (a) If the Principal shall not withdraw said Bid within ninety (90) days after Bid Award date, and shall within ten (10) days after prescribed forms are presented to him for signature, enter into a written Contract with the County in accordance with the Bid as accepted, and give Bond with good and sufficient Surety or Sureties, as may be required, for the faithful performance and proper fulfillment of such Contract; then the above obligations shall be void and of no effect, otherwise to remain in full force and virtue.
- (b) In the event of the withdrawal of said Bid within the period specified, or the failure to enter into such Contract and give such Bond within the time specified, if the Principal shall pay the County the difference between the amount specified, in said Bid and the amount for which the County may procure the required Work and supplies, if the latter amount be in excess of the former, then the above obligations shall be void and of no effect, otherwise to remain in full force and virtue.

IN WITNESS WHEREOF, the above bounded parties have executed this instrument under their several seals, this day of January 16th A.D., 2019, the name and corporate seal of each corporate party being hereto affixed and these presents duly signed by its undersigned representative, pursuant to authority of its governing body.



BID NO.: 19-27

WITNESSES:

(If Sole Ownership or Partnership two (2) Witnesses required).  
(If Corporation, Secretary only will attest and affix seal).

WITNESSES:

Jennifer Smith  
Dei Abernathy

W. H. Hill  
PRINCIPAL:

G & H Underground Construction, Inc.

NAME OF FIRM:

W. H. Hill  
SIGNATURE OF AUTHORIZED  
OFFICER (AFFIX SEAL)

President  
TITLE

2200 N. Ponce de Leon Blvd., Ste. 11

BUSINESS ADDRESS

St. Augustine, FL 32084

CITY

STATE

WITNESS:

K. M. ...

SURETY:

Merchants Bonding Company

CORPORATE SURETY

B. K. Powell  
ATTORNEY-IN-FACT (AFFIX SEAL)

Benjamin K. Powell, Attorney-in-Fact

P.O. Box 14498

BUSINESS ADDRESS

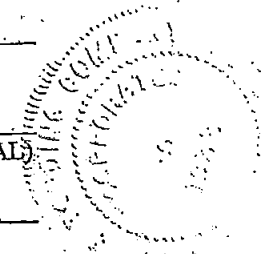
Des Moines, IA 50306

CITY

STATE

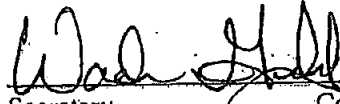
Cecil W. Powell & Company

NAME OF LOCAL INSURANCE AGENCY



ATTACHMENT C  
CERTIFICATES AS TO CORPORATE PRINCIPAL


I, Wade Gibby, certify that I am the Secretary of the Corporation named as Principal in the attached bond; that Wade Gibby who signed the said bond on behalf of the Principal, was then President of said Corporation; that I know his signature, and his signature hereto is genuine; and that said bond was duly signed, sealed, and attested for and in behalf of said Corporation by authority of its governing body.

  
Secretary Corporate Seal

(STATE OF FLORIDA  
COUNTY OF ST. JOHNS)

Before me, a Notary Public duly commissioned, qualified and acting, personally appeared Benjamin K. Powell to me well known, who being by me first duly sworn upon oath, says that he is the Attorney-In-Fact, for the Merchants Bonding Company and that he has been authorized by Merchants Bonding Company to execute the foregoing bond on behalf of the surety named therein in favor of St. Johns County, Florida.

Subscribed and sworn to me this 16th day of January, 2019, 2019, A.D.

  
NOTARY PUBLIC  
State of Florida-at-large

KASSANDRA S. SULLINS  
Notary Public, State of Florida  
My Comm. Expires 08/22/2022  
Commission No. GG202445

My Commission Expires: 6/22/2022

(Attach Power of Attorney to original Bid Bond and Financial Statement of Surety Company)

Bid No. ~~0937~~<sup>1927</sup>

**MERCHANTS**  
**BONDING COMPANY™**  
**POWER OF ATTORNEY**

Know All Persons By These Presents, that MERCHANTS BONDING COMPANY (MUTUAL) and MERCHANTS NATIONAL BONDING, INC., both being corporations of the State of Iowa (herein collectively called the "Companies") do hereby make, constitute and appoint, individually, Benjamin Powell; Fitzhugh K Powell Jr; Robert T Theus; Susan W Jordan

their true and lawful Attorney(s)-in-Fact, to sign its name as surety(ies) and to execute, seal and acknowledge any and all bonds, undertakings, contracts and other written instruments in the nature thereof, on behalf of the Companies in their business of guaranteeing the fidelity of persons, guaranteeing the performance of contracts and executing or guaranteeing bonds and undertakings required or permitted in any actions or proceedings allowed by law.

This Power-of-Attorney is granted and is signed and sealed by facsimile under and by authority of the following By-Laws adopted by the Board of Directors of Merchants Bonding Company (Mutual) on April 23, 2011 and amended August 14, 2015 and adopted by the Board of Directors of Merchants National Bonding, Inc., on October 16, 2015.

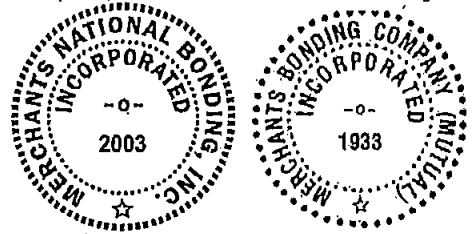
"The President, Secretary, Treasurer, or any Assistant Treasurer or any Assistant Secretary or any Vice President shall have power and authority to appoint Attorneys-in-Fact, and to authorize them to execute on behalf of the Company, and attach the seal of the Company thereto, bonds and undertakings, recognizances, contracts of indemnity and other writings obligatory in the nature thereof."

"The signature of any authorized officer and the seal of the Company may be affixed by facsimile or electronic transmission to any Power of Attorney or Certification thereof authorizing the execution and delivery of any bond, undertaking, recognizance, or other suretyship obligations of the Company, and such signature and seal when so used shall have the same force and effect as though manually fixed."

In connection with obligations in favor of the Florida Department of Transportation only, It is agreed that the power and authority hereby given to the Attorney-in-Fact includes any and all consents for the release of retained percentages and/or final estimates on engineering and construction contracts required by the State of Florida Department of Transportation. It is fully understood that consenting to the State of Florida Department of Transportation making payment of the final estimate to the Contractor and/or its assignee, shall not relieve this surety company of any of its obligations under its bond.

In connection with obligations in favor of the Kentucky Department of Highways only, It is agreed that the power and authority hereby given to the Attorney-in-Fact cannot be modified or revoked unless prior written personal notice of such intent has been given to the Commissioner-Department of Highways of the Commonwealth of Kentucky at least thirty (30) days prior to the modification or revocation.

In Witness Whereof, the Companies have caused this Instrument to be signed and sealed this 27th day of April, 2017

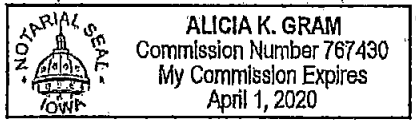


MERCHANTS BONDING COMPANY (MUTUAL)  
MERCHANTS NATIONAL BONDING, INC.

By *Larry Taylor*  
President

STATE OF IOWA  
COUNTY OF DALLAS ss.

On this this 27th day of April 2017, before me appeared Larry Taylor, to me personally known, who being by me duly sworn did say that he is President of MERCHANTS BONDING COMPANY (MUTUAL) and MERCHANTS NATIONAL BONDING, INC.; and that the seals affixed to the foregoing instrument are the Corporate Seals of the Companies; and that the said instrument was signed and sealed in behalf of the Companies by authority of their respective Boards of Directors.

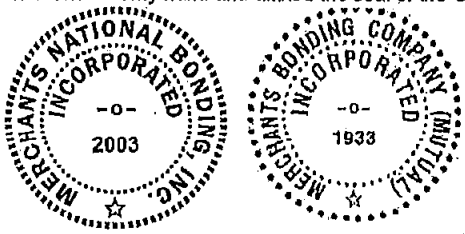


*Alicia K. Gram*  
Notary Public

(Expiration of notary's commission does not invalidate this instrument)

I, William Warner, Jr., Secretary of MERCHANTS BONDING COMPANY (MUTUAL) and MERCHANTS NATIONAL BONDING, INC., do hereby certify that the above and foregoing is a true and correct copy of the POWER-OF-ATTORNEY executed by said Companies, which is still in full force and effect and has not been amended or revoked.

In Witness Whereof, I have hereunto set my hand and affixed the seal of the Companies on this 16th day of January, 2019



*William Warner Jr.*  
Secretary



St. Johns County Board of County Commissioners

Purchasing Division

December 20, 2018

ADDENDUM #1

To: Prospective Bidders  
From: St. Johns County Purchasing Department  
Subject: BID No. 19-27; Remington Forest Drive Drainage Improvements

This Addendum #1 is issued for further respondent's information and is hereby incorporated into the Bid documents. Each respondent will ascertain before submitting a proposal that he/she has received all Addenda, and return one (1) original and two (2) copies of this signed Addendum with the submitted bid proposal to the St. Johns County Purchasing Department, Diana M. Fye, AS, CPPB; Procurement Coordinator, 500 San Sebastian View; St. Augustine, FL 32084.

A. REVISION TO CONSTRUCTION PLANS

Sheets No. 26 and No. 27 (showing JEA directional drill and the water relocation) of the Construction Plans for this project have been revised and are attached.

B. QUESTIONS:

1. Regarding the Subject project, is there an engineer's estimate, or budget?

Answer: The budget is \$256,915.00.

**THE BID DUE DATE REMAINS January 16, 2019 AT 2:00 P.M.**

Acknowledgment

Signature and Date

Wade Gibby, President

Printed Name/Title

G+H Underground Const. Inc.

Company Name (Print)

Sincerely,

Diana M. Fye, AS, CPPB  
Procurement Coordinator

**END OF ADDENDUM NO. 1**



## St. Johns County Board of County Commissioners

Purchasing Division

January 9, 2019

### ADDENDUM #2

**To:** Prospective Bidders  
**From:** St. Johns County Purchasing Department  
**Subject:** BID No. 19-27; Remington Forest Drive Drainage Improvements

This Addendum #2 is issued for further respondent's information and is hereby incorporated into the Bid documents. Each respondent will ascertain before submitting a proposal that he/she has received all Addenda, and return one (1) original and two (2) copies of this signed Addendum with the submitted bid proposal to the St. Johns County Purchasing Department, Diana M. Fye, AS, CPPB; Procurement Coordinator, 500 San Sebastian View; St. Augustine, FL 32084.

#### A. QUESTIONS:

1. How is the Contractor to provide 2-Way traffic during non-working hours? Your maintenance of traffic plan shows 1 lane during normal working hours.  
**Answer: The Contractor shall be required to provide flaggers during working and non-working hours for Management of Traffic (MOT) when the pavement is necked down to one lane.**
2. Will buried electrical be relocated by others or the contractor? If by the contractor, please give a detailed description of the existing buried electrical and proposed buried electrical.  
**Answer: The buried electrical will be relocated by FPL. The Contractor shall coordinate his work with FPL as needed.**
3. Will JEA construct the 8" water main directional drill with connections to existing, or is this work to be performed by the contractor?  
**Answer: The water main relocation work is to be completed by the Contractor.**
4. If the water main scope of work is to be performed by the contractor, what are the time restrictions the water may be shut down for the connection to the new directional drilled water main?  
**Answer: Water shutdown will be between 9 PM and 5 AM.**
5. If the water main scope of work is to be performed by the contractor, will the contractor be required to provide temporary water during the shutdown?  
**Answer: Temporary water will not be required but the shutdown will have to be coordinated with JEA personnel.**

6. Will all cable TV be relocated by others prior to the start of work?

**Answer:** Cable TV will be relocated by others. The Contractor shall coordinate his work with the Cable utility company as needed.

7. Since the proposed maintenance of traffic is limited to one lane, are the drivers expected to stop and wait on who they believe has the right of way, or will any additional signage be added to the plan (possibly a Vehicle Message Board (VMB))? A lack of direction may create traffic conflicts.

**Answer:** See Answer to Question #1 above.

8. The traffic control plans indicate 2 phases of work will have one lane road with flaggers. Only a 9' wide road is shown. The work will last for far longer than one day. Please advise how the night time operations of the one lane road will be coordinated. Will the flaggers be there 24 hr/ 7 days. Will a remote/automated traffic signal be required? The plan needs more explanation for the night time operations.

**Answer:** See Answer to Question #1 above.

9. Will the contractor be required to bypass the storm drain flow? There is no guidance in the specifications for the bypassing.

**Answer:** The contractor is required to maintain existing drainage patterns throughout the duration of the construction.

10. Please clarify who pays for testing:

**Answer:** The Scope of Work within the project specifications requires that the Contractor contract with an independent testing laboratory to perform material testing and soil testing in accordance with County requirements.

11. Please clarify what are the testing requirements. How often/far apart are the tests.

**Answer:** Please refer to the St. Johns County Land Development Procedures Manual for testing requirements at the following link:  
<http://www.sjcfi.us/LongRangePlanning/media/LDC/ArticleVI.pdf>

12. We believe with the scope and phasing that 120 days is not enough time. Please allow for extending the contract time to 180 days.

**Answer:** Time extensions can be discussed, if necessary, as construction progresses.

13. Is imported pipe bedding required for the SD?

**Answer:** Please see attached Geotechnical Report (Exhibit "A") for culvert bedding requirements.

14. Please allow an allowance for unsuitable soils.

**Answer:** Please refer to attached Geotechnical Report (Exhibit "A") to estimate any unsuitable quantities.

**THE BID DUE DATE REMAINS January 16, 2019 AT 2:00 P.M.**

Acknowledgment

  
Signature and Date

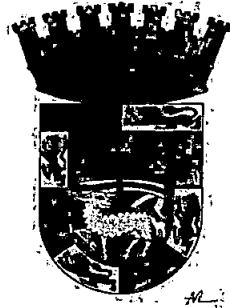
Wade Gibby, President  
Printed Name/Title

G+H Underground Const. Inc  
Company Name (Print)

Sincerely,

Diana M. Fye, AS, CPPB  
Procurement Coordinator

END OF ADDENDUM NO. 2



**ST. JOHNS COUNTY  
BOARD OF COUNTY COMMISSIONERS**

**BID NO: 19-27**

**REMINGTON FOREST DRIVE DRAINAGE IMPROVEMENTS**

**St. Johns County Purchasing Department  
500 San Sebastian View  
St. Augustine FL 32084  
(904) 209-0150  
[www.sjcfll.us/Purchasing/index.aspx](http://www.sjcfll.us/Purchasing/index.aspx)**

**FINAL: 11/28/18**

**Bid No: 19-27; Remington Forest Drive Drainage Improvements**

**TABLE OF CONTENTS**

**FRONT END BID DOCUMENTS**

Notice to Bidders

Instruction to Bidders

Official County Bid Form

Attachments:

“A” – St Johns County Board of County Commissioners Affidavit

“B” – Certificate as to Corporate Principal

“C” – License/Certification List

“D” – List of Proposed Sub-Contractors/Suppliers

“E” – Conflict of Interest Disclosure Form

“F” – Drug-Free Workplace Form

“G” – Proof of Insurance

“H” – Experience of Bidder Form

“I” – Claims, Liens, Litigation History

“J” – Certificate of Compliance with Florida Trench Safety Act

Bid Bond

**PROJECT SPECIFICATIONS**

**EXHIBIT “A” – CONSTRUCTION PLANS – (SEPARATE ATTACHMENT)**

**SEALED BID MAILING LABEL**

**END OF TABLE OF CONTENTS**



**BID NO: 19-27****NOTICE TO BIDDERS**

Notice is hereby given that sealed bids will be received **until 2:00 P.M.** on **Wednesday, January 16, 2019** by the St. Johns County Purchasing Department, located at 500 San Sebastian View, St. Augustine, Florida 32084 for **Bid No: 19-27; Remington Forest Drive Drainage Improvements**. Bids will be opened promptly after the 2:00 P.M. deadline. **Note:** Bids delivered to or received by the Purchasing Department after the 2:00 P.M. deadline shall not be give consideration and shall be returned to the sender unopened.

**Scope of Work:**

The Contractor shall be responsible for providing any and all labor, materials, and equipment required in order for construction of drainage improvements in the vicinity of an existing culverted cross drain on Remington Forest Drive, in St. Johns County, Florida. The existing cross drain is located southeast of the Remington Forest Drive / State Road 13 intersection and consists of dual 30-inch diameter corrugated metal pipes. The existing deteriorated cross drain will be replaced with dual 42" diameter reinforced concrete pipes. The project will also include the construction of new curb and gutter parallel to the roadway to address erosion issues. The curb and gutter will direct roadway runoff to curb inlets positioned near the cross drain. The existing ditch pavement will be replaced. The existing roadway will be milled and resurfaced within limits of the curb and gutter construction. The project also includes the relocation of a Jacksonville Electric Authority (JEA) water main.

**Minimum Qualifications**

Bidders must be fully licensed to do business in the State of Florida, possess a Local Business Tax Receipt for St. Johns County, FL, and have successfully completed at least three (3) projects of the type, size and dollar value of the construction proposed for this project in the past five (5) years. Additionally, the prime or sub-contractor performing the work shall be currently FDOT Pre-Qualified. Bidders must not have been under any contract that was terminated by the County "for cause" within the past calendar year. Copies of current licenses and certifications for the Prime Bidder and Sub-Contractor(s) must be provided with the submitted Bid Proposal.

**Bid Documents, Project Specifications and Drawings**

Bid Documents related to this bid may be obtained from Onvia DemandStar, Inc., at the following web address: [www.demandstar.com](http://www.demandstar.com) by requesting St. Johns County Bid Document # 19-27. For technical assistance with this Website please contact Onvia Supplier Services at 1-800-711-1712. A link to the Onvia DemandStar website is available through the St. Johns County Purchasing Website by clicking on the following link: <http://www.sjcfl.us/Purchasing/index.aspx> Check the County's site for download availability and any applicable fees. Bid Documents may also be requested, in writing, from Diana M. Fye, AS, CPPB, Procurement Coordinator, St. Johns County Purchasing, via email to [dfye@sjcfl.us](mailto:dfye@sjcfl.us) or fax to (904) 209-0163.

**Designated Point of Contact**

The County's Designated Point of Contact for this Bid is Diana M. Fye, AS, CPPB, Procurement Coordinator, St. Johns County Purchasing Department. Any and all questions and/or inquiries shall be directed to Ms. Fye, *in writing*, via email at [dfye@sjcfl.us](mailto:dfye@sjcfl.us) or fax to (904) 209-0163. In the event the Designated Point of Contact is absent or otherwise unavailable for more than three (3) business days, firms may contact Leigh Daniels, CPPB, Procurement Supervisor at [ldaniels@sjcfl.us](mailto:ldaniels@sjcfl.us).

**Vendors shall not contact, lobby, or otherwise communicate with any SJC employee, including any member of the Board of County Commissioners, other than the above referenced individual from the point of advertisement of the Bid until contract(s) are executed by all parties, per SJC Purchasing Code 304.6.5 "Procedures Concerning Lobbying". According to SJC policy, any such communication shall disqualify the vendor, contractor, or consultant from responding to the subject invitation to bid, request for quote, request for proposal, invitation to negotiate, or request for qualifications.**

**Questions**

Any and all questions related to this project shall be directed, *in writing*, to the Designated Point of Contact. Questions are due no later than three o'clock (3:00PM) on **Friday, January 4, 2019** not be answered unless previously approved by the SJC Purchasing Manager or other designated County Representative.

Any bidder, proposer or person substantially and adversely affected by an intended decision or by an term, condition, procedure or specification with respect to any bid, invitation, solicitation of proposals or requests for qualifications, shall

file with the Purchasing Department for St. Johns County, a written notice of intent to protest no later than 72 hours (excluding Saturdays, Sundays and legal holidays for employees of St. Johns County) after the posting either electronically or by other means of the notice of intended action, notice of intended award, bid tabulation, publication by posting electronically or by other means of a procedure, specification, term or condition which the person intends to protest, or the right to protest such matter shall be waived. The protest procedures may be obtained from the Purchasing Department and are included in the County's Purchasing Manual. All of the terms and conditions of the County Purchasing Manual are incorporated by reference and are fully binding.

St. Johns County reserves the right to accept or reject any or all bids/proposals, waive minor formalities, and to award the bid/proposal that best serves the interests of St. Johns County. St. Johns County also reserves the right to award the base bid and any alternate bids in any combination that best suits the needs of the County.

BOARD OF COUNTY COMMISSIONERS  
OF ST. JOHNS COUNTY, FLORIDA  
HUNTER S. CONRAD, CLERK

BY: \_\_\_\_\_  
Deputy Clerk

# **FRONT END BID DOCUMENTS**

**BID NO: 19-27**

**INSTRUCTION TO BIDDERS**

**OWNER:** The Board of County Commissioners of St. Johns County, Florida ("County")

**PROJECT:** BID NO.: 19-27; Remington Forest Drive Drainage Improvements

**DEFINITIONS**

All definitions set forth in the General Conditions of the Contract or in other Contract Documents are applicable to the Bidding Documents.

Addenda are written or graphic instruments issued by the Purchasing Department prior to the time and date for receiving Bids that modify or interpret the Bidding Documents by addition, deletion, clarification, or corrections.

Base Bid is complete and properly signed proposal to do the work, or designated portion thereof, for the sums stipulated therein supported by data called for by the Bidding Documents.

Bid An offer, as a price, whether for payment or acceptance. A quotation, specifically given to a prospective purchaser upon its request, usually in competition with other vendors

Bid (Formal or Sealed) A request for firm prices by Advertised Legal Notice. Prices are submitted in sealed envelopes and in conformance with a prescribed format, all of which are opened in public on an appointed hour and date as advertised.

Bid Bond A good faith monetary commitment which a bidder or surety forfeits to the County of the bidder refuses, or is unable to enter into a contract after submitting a bid, or the bidder cannot furnish the required bonds, usually five percent (5%) of the bid proposal price.

Bidder is a firm or individual who submits a Bid to the Owner for the work described in the proposed Contract Documents.

Bidding Documents include the Advertisement/Notice to Bidders, Front End Bid Documents, Contract Agreement, Specifications and Plans including any Addenda issued prior to receipt of Bids.

Contract A delivered agreement between two or more parties, legally binding and enforceable, to perform a specific act or acts or exchange goods for consideration. A purchase order becomes a contract when accepted by a vendor. A unilateral contract is one in which only one party promises performance. A bilateral contract is one in which both parties promise performance.

Contractor An individual or firm having a contract to provide goods, service or construction for a specified price

County St. Johns County, a political subdivision of the State of Florida (F.S. 217.73)

Responsible Bidder A bidder capable of performing in all respects to fulfill the contract requirements. This includes having the ability to perform, the experience, reliability, capacity, credit, facilities and equipment to meet the contractual obligation.

Responsive Bid, Responsive Proposal, or Responsive Reply A bid, proposal, or reply submitted by a responsive and responsible vendor conforming in all material respects to the solicitation.

Specifications A clear, complete and accurate statement of the physical, functional or technical requirements descriptive of an item and if applicable, the procedure to be followed to determine if the requirements are met.

Subcontractor A party who contracts with a prime contractor to perform all or any part of the prime contractor's obligations.

Unit Price is an amount stated in the Bid as a price per unit of measurement for materials or services as described in the contract documents which shall include all labor, materials, equipment and any other item/s essential to accomplish the

scope of work of the Unit Price.

### **BIDDER'S REPRESENTATION**

Each Bidder, by marking his Bid, represents that he has read and understands the Bidding and Contract Documents and his Bid is made in accordance herewith: he has visited the Site and has familiarized himself with the local conditions under which the Work is to be performed; and his Bid is based upon the materials, systems and equipment described in the Bidding Documents without exceptions.

### **BIDDING DOCUMENTS**

Bidding documents may be obtained from [www.demandstar.com](http://www.demandstar.com) or SJC Purchasing, in the number and for the purchase sum, if any, as stated in the Advertisement or Invitation - Notice to Bidders. Complete sets of Bidding Documents shall be used in preparing the Bid Proposal. St. Johns County shall not assume any responsibility for errors or misinterpretations resulting from the use of complete or incomplete sets of Bidding Documents. The Owner, in making copies of the Bidding Documents available on the above terms, do so only for the purpose of obtaining bids on the Work and do not confer a license or grant for any other use.

### **INTERPRETATION OR CORRECTION OF BIDDING DOCUMENTS**

Bidders shall promptly notify the Owner of any ambiguity, inconsistency, or error which they may discover upon examination of the Bidding Documents or of the site and local conditions. Bidders requiring clarification of interpretation of the Bidding Documents shall make a written request to the Owner, to reach him at least **fourteen (14) days** prior to the date for receipt of Bids.

An interpretation, correction, or change of the bidding Documents will be made by Addendum. Interpretation, corrections, or changes of the Bidding Documents made in any other manner will not be binding, and Bidders shall not rely upon such interpretation, corrections, and change. No change will be made to the Bidding Documents by the Owner or its Representative **seven (7) days** prior to Bid receiving date, however, the Owner reserves the authority to decrease this time depending on the necessity of such change.

### **SUBSTITUTIONS**

The materials, products and equipment described in the Bidding Documents establish a standard of required function, dimension, appearance and quality to be met by any proposed substitution. No substitution will be considered unless written request for approval has been submitted by the Bidder and has been received by the Owner at least **fourteen (14) days** prior to the date for receipt of Bids. Each such request shall include the name of the material or equipment for which it is to be substituted and a complete description of the proposed substitute, including drawings, cuts, performance and test data any other information necessary for an evaluation. A statement setting forth any changes in other materials, equipment or work that incorporation of the substitute would require shall be included. The burden of proof of the merit of the proposed substitute is upon the proposer. The project director's approval or disapproval of a proposed substitution shall be final.

If County Staff approves any proposed substitution, such approval will be set forth in an Addendum. Bidders shall **not** rely upon approval made in any other manner.

### **DESIGNATED POINT OF CONTACT**

The County's Designated Point of Contact for this Bid is Diana M. Fye, AS, CPPB, Procurement Coordinator, St. Johns County Purchasing Department. Any and all questions and/or inquiries shall be directed to Ms. Fye, *in writing*, via email at [dfye@sjcfl.us](mailto:dfye@sjcfl.us) or fax to (904) 209-0163. In the event the Designated Point of Contact is absent or otherwise unavailable for more than three (3) business days, firms may contact Leigh Daniels, CPPB, Procurement Supervisor at [ldaniels@sjcfl.us](mailto:ldaniels@sjcfl.us).

Vendors shall not contact, lobby, or otherwise communicate with any SJC employee, including any member of the Board of County Commissioners, other than the above referenced individual from the point of advertisement of the Bid until contract(s) are executed by all parties, per SJC Purchasing Code 304.6.5 "Procedures Concerning Lobbying". According to SJC policy, any such communication shall disqualify the vendor, contractor, or consultant from responding to the subject invitation to bid, request for quote, request for proposal, invitation to negotiate, or request for qualifications. St. Johns County reserves the right to accept or reject any or all bids/proposals, waive minor formalities, and to award the bid/proposal that best serves the interests of St. Johns County. St. Johns County also reserves the right to award the base bid and any alternate bids in any combination that best suits the needs of the County.

## **QUESTIONS**

Any and all questions related to this project shall be directed, *in writing*, to the Designated Point of Contact. Questions are due no later than three o'clock (3:00PM) on **Friday, January 4, 2019**, so that any necessary addenda may be issued in a timely manner. Any questions received after the deadline will not be answered unless previously approved by the SJC Purchasing Manager or other designated County Representative.

## **ADDENDA**

Addenda will be distributed to all who are known by the entity responsible for distribution of the complete set of Bidding Documents. Copies of Addenda will be made available for inspection wherever Bidding Documents are on file for that purpose.

Each Bidder shall ascertain prior to submitting a bid, that all issued addenda have been received, and each Bidder **shall** acknowledge receipt, of all issued addenda in the space provided in the Official County Bid Form, and a fully acknowledged copy of each issued addendum must be included in the submitted bid proposal. Failure to provide fully acknowledged copies of each addendum may result in a bid proposal being deemed non-responsive.

## **FORM AND STYLE OF BIDS**

Bids shall be submitted in **TRIPPLICATE (one (1) original and two (2) copies)** on the required forms provided herein. All blanks on the Bid Form shall be filled in by typewriter or manually in blue or black ink. Bidders are not required to submit a copy of this Bid Document with their bid proposals. The bidders are required to submit, at a minimum, the Bid Proposal Attachments listed in this Document.

Bid proposals must be placed in an envelope, sealed and placed in a second envelope or container, plainly marked on the outside addressed to St. Johns County Purchasing Department, with the bidder's return address in top left hand corner and recite: "**BID NO: 19-27; Remington Forest Drive Drainage Improvements**"

### ***See Example Below:***

ABC Company, Inc.  
123 Aviles Street  
St. Augustine, FL 32084

St. Johns County Purchasing Department  
500 San Sebastian View  
St. Augustine, FL 32084

**BID NO.: XX-XX – SEALED BID FOR SAMPLE PROJECT**

At the end of this document, a sealed Bid mailing label is provided for convenience. Bidders shall affix the provided label to the outside of the sealed envelope/container to submit their Bid.

Where so indicated by the makeup of the Bid Form, sums shall be expressed in both words and figures, and in the case of discrepancy between the two, the amount expressed in words shall govern. Any interlineations, alteration or erasure must be initialed by the signer of the Bid, failure to do so may cause the Bidder's proposal to be considered non-responsive.

Bidder shall make no stipulation on the Bid Form nor qualify his Bid in any manner, to do so will classify the Bid as being non-responsive.

Each copy of the Bid Proposal shall include the company name, address, telephone number and legal name of Bidder and a statement whether Bidder is sole proprietor, a partnership, a corporation or any other legal entity. Each copy shall be signed by the person or persons legally authorized to bind the Bidder to a contract. A Bid by a corporation shall further give the state of incorporation and have the corporation seal affixed.

A Bid submitted by an agent shall have a current Power of Attorney attached certifying agent's authority to bind the Bidder.

## **SUBMISSION OF BIDS**

All copies of the Bid, and any other documents required to be submitted with the Bid shall be enclosed in a sealed opaque envelope or container.

The envelope or container shall be addressed as required in the "Instruction to Bidders", and shall be identified with the Bid

Number, Project Name, the Bidder's Name, and return address, and portion of the project or category of work for which the Bid is submitted. The envelope containing the above Bid Documents shall be enclosed in an outer envelope and identified in the same manner as shown above.

Bidder shall assume full responsibility for timely delivery at location designated for receipts of Bids. Bids shall be deposited at the designated location prior to the time and date for receipt of Bids indicated in the Advertisement/Notice to Bidders, or any time extension thereof made by Addendum. Bids received after the time and date for receipt of Bids will be returned to the sender unopened.

Oral, telephonic, telegraphic or electronic Bids are invalid and will not receive consideration.

### **BID SECURITY**

Each submitted Bid shall be accompanied by a Bid Security, submitted on the Bid Bond Form provided herein, or in the form of a certified or cashier's check, in the amount of five percent (5%) of the Total Lump Sum Bid amount submitted on the Official County Bid Form, pledging that the Bidder will enter into a contract with the Owner on the terms stated in the Bid and will, if required, furnish bonds as described hereunder covering the faithful performance of the Contract and the payment of all obligations arising thereunder. Should the Bidder refuse to enter into such Contract or fail to furnish such bonds to the Owner, if required, the amount of the Bid Security shall be forfeited, not as penalty, but as liquidated damages.

A Bid Security in the form of a certified or cashier's check must be made payable to the Board of County Commissioners of St. Johns County. Bidders submitting a certified or cashier's check as the bid security are not required to submit **Attachment "B"** – Certificate as to Corporate Principal, or the Bid Bond forms provided herein.

A Bid Security in the form of a Bid Bond shall be written on the form provided herein, with an acceptable surety, and the Attorney-in-Fact who executes the bond on behalf of the surety shall affix to the bond a certified and current copy of his Power of Attorney. Acceptable surety companies are defined herein under "Surety Bond". The Surety Company shall be licensed to do business in the State of Florida and shall be listed by the U.S. Treasury Department. Any Bidder submitting a Bid Security in the form of a Bid Bond must also submit **Attachment "B"** – Certificate as to Corporate Principal.

The Owner shall have the right to retain the Bid Security of Bidders until either: (a) the Contract is executed and bonds, if required, have been furnished, or (b) the specified time has elapsed so that Bids may be withdrawn, or (c) all Bids have been rejected.

### **BID BOND INSTRUCTIONS**

If a Bidder chooses to submit a Bid Bond on the form provided herein, he must submit the bond as follows:

1. Prepare and submit one (1) original and two (2) copies of the required Bid Bond Forms as shown above
2. Type or print Bidder's and Surety's names in the same language as in the Advertisement, or Invitation to Bid.
3. Affix the Corporate Seal, and type or print the name of the Surety on the line provided and affix its corporate seal.
4. Attach a copy of Surety agent's Power of Attorney, unless the Power of Attorney has been recorded in St. Johns County. If it has been recorded, give the record book and page. If not recorded, the copy of the Power of Attorney must have an original signature of the Secretary or Assistant Secretary of Surety certifying the copy. The Surety's corporate seal must be affixed.

### **BID POSTPONEMENT/CANCELLATION**

The County may, at its sole and absolute discretion, reject any bids that are not submitted in accordance with the terms in this Bid Solicitation. The County may re-advertise this Bid; postpone or cancel, at any time, this Bid process; or waive any irregularities in this Bid or in the proposals received as a result of this Bid.

### **MODIFICATION OR WITHDRAWAL OF BID**

A Bid may not be modified, withdrawn or canceled by the Bidder during the stipulated time period following the time and date designated for the receipt of Bids, and Bidder so agrees in submitting his Bid.

Prior to time and date designated for receipt of Bids, a Bid submitted early may be modified or withdrawn only by notice to the party receiving Bids at the place and prior to the time designated for receipt of Bids.

Such notice shall be in writing over the signature of the Bidder. If by telephone, written confirmation over the signature of Bidder must be mailed and postmarked on or before the date and time set for receipt of Bids; it shall be so worded as not to reveal the amount of the original Bid.

Withdrawn Bids may be resubmitted up to the time designated for the receipt of Bids provided that they are then fully in conformance with these Instructions to Bidders.

### **COSTS INCURRED BY BIDDERS**

All expenses involved with the preparation and submission of bids to the County, or any work performed in connection therewith, shall be borne by the Bidder(s). No rights of ownership will be conferred until title of the property is transferred to the successful bidder. All fees for copying and reproduction services for items listed herein are nonrefundable.

### **CONSIDERATION OF BIDS**

**Opening of Bids:** Unless stated otherwise in an Addenda to the Advertisement/Notice to Bidders, the properly identified Bids received on time will be opened publicly as specified in the Advertisement and a tabulation of the bid amounts of the Base Bids and major Alternates, if any, will be made available to Bidders. The Bid Tabulation will be posted on the Purchasing Department bulletin board for seventy two (72) hours.

Any bidder, proposer or person substantially and adversely affected by an intended decision or by an term, condition, procedure or specification with respect to any bid, invitation, solicitation of proposals or requests for qualifications, shall file with the Purchasing Department for St. Johns County, a written notice of intent to protest no later than seventy two (72) hours (excluding Saturdays, Sundays and legal holidays for employees of St. Johns County) after the posting either electronically or by other means of the notice of intended action, not of intended award, bid tabulation, publication by posting electronically or by other means of a procedure, specification, term or condition which the person intends to protest, or the right to protest such matter shall be waived. The protest procedures may be obtained from the Purchasing Department and are included in the County's Purchasing Manual. All of the terms and conditions of the County Purchasing Manual are incorporated by reference and are fully binding.

*Vendors shall not contact, lobby, or otherwise communicate with any SJC employee, including any member of the Board of County Commissioners, other than the above referenced individual from the point of advertisement of the Bid until contract(s) are executed by all parties, per SJC Purchasing Code 304.6.5 "Procedures Concerning Lobbying". According to SJC policy, any such communication shall disqualify the vendor, contractor, or consultant from responding to the subject invitation to bid, request for quote, request for proposal, invitation to negotiate, or request for qualifications.*

**Rejection of Bids:** The County reserves the right to reject any or all Bids and in particular to reject a Bid not accompanied by any required Bid Security or data required by the Bidding Documents or a Bid in any way incomplete or irregular.

**Acceptance of Bid (Award):** The County shall have the right to reject any or all Bids or waive any minor formality or irregularity in any Bid received. If the Contract is awarded, it will be awarded within a minimum of ninety (90) days from the date of the Bid opening, or as designated in the Bid Documents.

It is the intent of the County to award a contract to the vendor who submits the lowest responsive, responsible Bid on the basis of the sum of the annual price, provided the Bid has been submitted in accordance with the requirements of the Bidding Documents, if judged to be reasonable, does not exceed the funds budgeted for the Work and is deemed to be in the best interest of the County.

The County may consider award to multiple vendors, if awarding multiple contracts is more cost effective than awarding a single contract based on pricing for the County as a whole.

### **QUALIFICATION OF CONTRACTORS**

#### ***Minimum Qualifications:***

Bidders must be fully licensed to do business in the State of Florida, possess a Local Business Tax Receipt for St. Johns County, FL, and have successfully completed at least three (3) projects of the type, size and dollar value of the construction proposed for this project in the past five (5) years. Additionally, the prime or sub-contractor performing the work shall be currently FDOT Pre-Qualified. Bidders must not have been under any contract that was terminated by the County "for cause" within the past calendar year.



Each Bidder must submit **Attachment "H"**- Experience of Bidder Form.

Proof of qualifications shall be provided by completing and submitting **Attachment "C"** – License/Certification List along with a copy of each license and certificate listed. All licenses, certifications and pre-qualifications must be valid and current on the date bids are submitted.

Bidders to whom award of a contract is under consideration shall submit to the County, upon his request, a properly executed Contractor's Qualification Statement of A1A Document A305, unless such a statement has been previously required and submitted as a prerequisite to the issuance of Bidding Documents.

### **SUB-CONTRACTORS**

Each Bidder shall submit to the County, a list of Subcontractors and major materials suppliers to be used if awarded the contract. A copy of the form, **Attachment "D"**, is provided in the Bidding Documents. If no Subcontractors or major material suppliers are required, so state there on.

Upon request by the County, the successful Bidder shall within seven (7) days thereafter, submit all data required to establish to the satisfaction of the County, the reliability and responsibility of the proposed Subcontractors to furnish and perform the work described in the Sections of the Specifications pertaining to such proposed Subcontractor's respective trades.

Prior to the award of the Contract, the County will notify the Bidder in writing if either the County, after due investigation, has reasonable and substantial objection to any person or organization proposed as a Subcontractor. The Bidder then may, at his option, withdraw his Bid without forfeiture of Bid Security or submit an acceptable substitute at no increase in Bid price. If the Bidder fails to submit an acceptable substitute within seven (7) days of the original notification, the County then may, at his option, disqualify the Bidder, at no cost to the County.

The County reserves the right to disqualify any Contractor, Subcontractor, Vendor, or material supplier due to previously documented project problems, either with performance or quality.

Subcontractors and other persons and organizations proposed by the Bidder and accepted by the County, must be used on the work for which they were proposed and accepted and shall not be changed except with the written approval of the County.

### **FLORIDA TRENCH SAFETY ACT**

Bidders shall complete and submit the Certificate of Compliance with Florida Trench Safety Act form, **Attachment "J"**, in accordance with the requirements of Chapter 553, Florida Statutes. If trenching is not required for this project, state so thereon. Contractor shall be responsible for compliance with all trenching shoring safety requirements.

### **PUBLIC CONSTRUCTION BOND**

The Contractor shall be required to obtain and submit a recorded Public Construction Bond covering the faithful performance of the Contract and the payment of all obligations arising thereunder in full amount of the Contract, with such acceptable sureties, secured through the Bidder's usual sources as may be agreeable to the parties. The Contractor shall furnish the required bond, after full execution of the awarded Contract. The Bond shall be released upon satisfactory completion of the project.

### **SURETY BOND**

Acceptable Surety Companies: To be responsible to the Owner as Surety on Bonds, Surety shall comply with the following provisions:

1. Surety must be licensed to do business in the State of Florida;
2. Surety must have been in business and have a record of successful continuous operations for at least three (3) years;
3. Surety shall not have exposed itself to any loss on any one risk in an amount exceeding twenty percent (20%) of its surplus to policyholders;
4. Surety must have fulfilled all of its obligations on all other bonds given to the Owner;
5. Surety must have good underwriting, economic management, adequate reserves for undisclosed liabilities, and net resources for unusual stock and sound investment.

### **Time of Delivery and Form of Bonds**

The Public Construction Bond form will be forwarded to the successful Bidder with his copy of the fully executed contract. **The Public Construction Bond must be recorded after the contract is signed by all parties.** The bidder will have 3 days

from receipt of fully executed contract to have the Public Construction Bond recorded. The bidder shall have the Public Construction Bond recorded at the St. Johns County Clerk of Courts office, in St. Augustine, Florida. After the book and page number have been assigned to the bond by the recording person, the Bidder is to obtain from the recording person a certified copy of the recorded bond, and deliver the certified copy to the Owner's Contract Administrator. No work can commence until the required bond and Insurance Certificates have been delivered to the Owner. Upon receipt of the certified copy of the recorded bond, the Owner may issue a Notice to Proceed.

Unless otherwise specified in the Bid Documents, the bonds shall be written on the form provided herein. The Bidder shall require the Attorney-in-Fact who executes the required bonds on behalf of the Surety to affix thereto a certified and current copy of his Power of Attorney authorizing his firm to act as agent for the Surety in issuing the bonds.

**FORM OF AGREEMENT BETWEEN OWNER AND CONTRACTOR**

Form to be used: Unless otherwise provided in the Bidding Documents, the Agreement for Work will be written on the St. Johns County Standard Agreement between Owner and Contractor where the basis of payment is a Stipulated Sum. In the event of a conflict in specifications or contract requirements the more stringent shall apply.

**EXECUTION OF CONTRACT DOCUMENTS**

The awarded Contractor shall return signed copies of the Contract Agreement to the SJC Purchasing Department within ten (10) consecutive calendar days of receipt of Notice of Award. St. Johns County shall return a fully executed original copy of the Contract Agreement to the Contractor no later than seven (7) consecutive calendar days after the return of the signed copies from the Contractor.

**CONTRACT TIME -- LIQUIDATED DAMAGES**

The Contractor shall have ten (10) days to return Contract originals from the time the Contractor receives a "Notice of Award". St. Johns County will return a "fully executed" Contract to the Contractor no later than seven (7) days after the return of the executed Contract originals (but no later than seventeen (17) days from the Notice of Award).

The Contractor will furnish a recorded original of the Public Construction Bond three (3) business days after receipt of the fully executed Contract (the Public Construction Bond must be recorded after the Contract is fully executed by all parties including the County Clerk). Upon receipt of the recorded Public Construction Bond, the County will issue a Notice to Proceed. If the Contractor fails to meet any of the dates and timeframes set forth in this section, or fails to execute the Contract, or to provide a Public Construction Bond, the County may elect at its option to consider the Contractor non-responsive and Contract with the next best Bidder.

The work to be performed under this Agreement shall be commenced within **ten (10)** days of the date of the Notice to Proceed, in writing. Construction of the project shall be substantially complete within **One Hundred Twenty (120)** consecutive calendar days from the date stipulated on the Notice to Proceed. Final completion shall be attained **Thirty (30)** consecutive calendar days from the date of substantial completion.

**Conditions under which Liquidated Damages are Imposed:**

Should the Contractor or, in case of his default, the Surety fail to complete the work within the time stipulated in the contract, or within such extra time as may have been granted by the Owner, the Contractor or, in case of his default, the Surety shall pay to the Owner, not as a penalty but as liquidated damages, the amount so due as determined by the following schedule:

<u>Original Contract Amount</u>	<u>Daily Charge Per Calendar Day</u>
\$50,000 and under.....	\$763
Over \$50,000 but less than \$250,000.....	\$958
\$250,000 but less than \$500,000.....	\$1,099
\$500,000 but less than \$2,500,000.....	\$1,584
\$2,500,000 but less than \$5,000,000.....	\$2,811
\$5,000,000 but less than \$10,000,000.....	\$3,645
\$10,000,000 but less than \$15,000,000.....	\$4,217
\$15,000,000 but less than \$20,000,000.....	\$4,698
\$20,000,000 and over.....	\$6,323 (plus 0.00005 of any amount over \$20 million (Round to nearest whole dollar)

**INDEMNITY**

To the fullest extent permitted by law, the Contractor shall indemnify and hold harmless the County, its officials, and employees, from and against liability, claims, damages, losses and expenses including attorney's fees arising out of or resulting from performance of the work, provided that such liability, claims, damages, loss or expense is attributable to bodily injury, sickness, disease or death, or to injury to or destruction of tangible property (other than the work itself) including loss of use resulting therefrom, but only to the extent caused in whole or in part, by negligent acts or omissions of the Contractor, a Subcontractor, or anyone directly or indirectly employed by them or anyone for whose acts they may be liable, regardless of whether or not such liability, claim, damage, loss or expense is caused in part by a party indemnified hereunder.

In claims against any person or entity indemnified under this paragraph by an employee of the Contractor, a Subcontractor, anyone directly or indirectly employed by them or anyone for whose acts they may be liable, the indemnification obligation under this shall not be limited by a limitation on amount or type of damages, compensation or benefits payable by or for the Contractor or a Subcontractor under workers' compensation acts, disability benefits acts or other employee benefits acts.

**TERMINATION**

Failure on the part of the Contractor to comply with any portion of the duties and obligations under the Contract Agreement shall be cause for termination. If the Contractor fails to perform any aspect of the responsibilities described herein St. Johns County shall provide written notification of any and all items of non-compliance. The Contractor shall then have five (5) consecutive calendar days to correct any and all items of non-compliance, or take acceptable corrective action, as determined by the County. If the items of non-compliance are not corrected, or acceptable corrective action has not been taken, as determined by the County, within the five (5) consecutive calendar days, the Contract Agreement may be terminated by St. Johns County for cause, upon giving fourteen (14) consecutive calendar days written notice to the Contractor. In the event, the County issues more than one (1) Notice of Non-Compliance or Default during the term of the Contract Agreement, the County may terminate the Contract Agreement, for Cause.

The County may terminate the Contract Agreement at any time, without cause, upon thirty (30) days written notice to the Contractor of intention to do so.

If, at any time, the Contract Agreement with the awarded vendor is terminated by the County, whether for cause or for convenience, the County may, at its sole discretion, negotiate with the second lowest, responsible, responsive bidder, in order to enter into a contract with that vendor to complete the remaining, specified services to prevent a gap in performance of services for the County, if it serves the best interest of the County to do so.

**TAXES**

Project is subject to Federal Excise and Florida Sales Taxes, which must be included in Bidder's proposal.

**INSURANCE**

The CONTRACTOR shall not commence work under this Contract until he/she has obtained all insurance required under this section and such insurance has been approved by the COUNTY. All insurance policies shall be issued by companies authorized to do business under the laws of the State of Florida. The CONTRACTOR shall furnish proof of Insurance to the COUNTY prior to the commencement of operations. The Certificate(s) shall clearly indicate the CONTRACTOR has obtained insurance of the type, amount, and classification as required by contract and that no material change or cancellation of the insurance shall be effective without thirty (30) days prior written notice to the COUNTY. Certificates shall specifically include the COUNTY as Additional Insured for all lines of coverage except Workers' Compensation and Professional Liability. A copy of the endorsement must accompany the certificate. Compliance with the foregoing requirements shall not relieve the CONTRACTOR of its liability and obligations under this Contract.

Certificate Holder Address:        St. Johns County, a political subdivision of the State of Florida  
  500 San Sebastian View  
  St. Augustine, FL 32084

The Contractor shall maintain during the life of this Contract, Comprehensive General Liability Insurance with minimum limits of \$1,000,000 per occurrence, \$2,000,000 aggregate, to protect the Contractor from claims for damages for bodily injury, including wrongful death, as well as from claims of property damages which may arise from any operations under this contract, whether such operations be by the Contractor or by anyone directly employed by or contracting with the Contractor.

The Contractor shall maintain Umbrella or Excess Liability Insurance covering workers compensation, commercial general liability and business auto liability with minimum limits of liability of \$1,000,000.

The Contractor shall maintain during the life of the contract, Professional Liability or Errors and Omissions Insurance with minimum limits of \$1,000,000, if applicable.

The Contractor shall maintain during the life of this Contract, Comprehensive Automobile Liability Insurance with minimum limits of \$300,000 combined single limit for bodily injury and property damage liability to protect the Contractor from claims for damages for bodily injury, including the ownership, use, or maintenance of owned and non-owned automobiles, including rented/hired automobiles whether such operations be by the Contractor or by anyone directly or indirectly employed by a Contractor.

The Contractor shall maintain during the life of this Contract, adequate Workers' Compensation Insurance in at least such amounts as are required by the law for all of its employees per Florida Statute 440.02.

In the event of unusual circumstances, the County Administrator or his designee may adjust these insurance requirements.

#### **GOVERNING LAWS & REGULATIONS**

The Contractor shall be responsible for being familiar and complying with any and all federal, state, and local laws, ordinances, rules and regulations that, in any manner, affect the work required under this contract. The agreement shall be governed by the laws of the State of Florida and St. Johns County both as to interpretation and performance.

#### **PUBLIC RECORDS**

In accordance with Chapter 119 of the Florida Statutes (Public Records Law) and Chapter 286 Freedom of Information Act, and except as may be provided by other applicable State and Federal Law, all proposers should be aware that Request for Bids and the responses thereto are public record. Proposers should identify specifically any information contained in their proposals which they consider confidential and/or proprietary and which they believe to be exempt from disclosure, citing specifically the applicable exempting law. Failure to identify confidential and/or proprietary information prior to submission of the proposal may result in such information being subject to release if requested in a public records request.

**END OF SECTION**

**OFFICIAL COUNTY BID FORM  
WITH ATTACHMENTS**

**BID NO: 19-27**

**OFFICIAL COUNTY BID FORM  
ST. JOHNS COUNTY, FLORIDA**

**PROJECT:** REMINGTON FOREST DRIVE DRAINAGE IMPROVEMENTS

**TO:** THE BOARD OF COUNTY COMMISSIONERS OF ST. JOHNS COUNTY, FLORIDA

**DATE SUBMITTED:** \_\_\_\_\_

**BID PROPOSAL OF**

\_\_\_\_\_  
Full Legal Company Name

\_\_\_\_\_  
Mailing Address

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

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

Bidders: Having become familiar with requirements of the project, and having carefully examined the Bidding Documents and Specifications entitled for Bid No: 19-27; Remington Forest Drive Drainage Improvements in St. Johns County, Florida, the undersigned proposes to furnish all materials, labor and equipment, supervision and all other requirements necessary to comply with the Contract Documents to submit the following Bid Proposal summarized as follows:

**TOTAL LUMP SUM BID PRICE:** (As per plans and specifications)

\$ \_\_\_\_\_  
Total Lump Sum Bid Price (Numerical)

\_\_\_\_\_/100 Dollars  
Total Lump Sum Bid Price (Amount written or typed in words)

Bidder shall insert the Total Lump Sum Bid Price in numerals and in words. Any discrepancy between the two submitted amounts shall be determined by the amount written in words.

**BID NO: 19-27**

During the preparation of the Bid, the following addenda, if any, were received:

No.: \_\_\_\_\_ Date Received:

No.: \_\_\_\_\_ Date Received:

No.: \_\_\_\_\_ Date Received:

We, the undersigned, hereby declare that no person or persons, firm or corporation, other than the undersigned are interested, in this proposal, as principals, and that this proposal is made without collusion with any person, firm or corporation, and we have carefully and to our satisfaction examined the Bid Documents and Project Specifications.

We have made a full examination of the location of the proposed work and the sources of supply of materials, and we hereby agree to furnish all necessary labor, equipment and materials, fully understanding that any quantities shown therewith are approximate only, and that we will fully complete all requirements therein as prepared by the Owner, within the same time limit specified in the Bid Documents as indicated above.

If the Undersigned is notified of the acceptance of this Bid Proposal by the Board within ninety (90) calendar days for the time set for the opening of Bids, the Undersigned further agrees, to execute a contract for the above work within ten (10) days after notice that his Bid has been accepted for the above stated compensation in the form of a Contract presented by the Owner.

The Undersigned further agrees that security in the form of a Bid Bond, certified or cashier's check in the amount of not less than five percent (5%) of Total Lump Sum Bid Price, payable to the Owner, accompanies this Bid; that the amount is not to be construed as a penalty, but as liquidated damages which said Owner will sustain by failure of the Undersigned to execute and deliver the Contract and Bond within ten (10) days of the written notification of the Award of the Contract to him; thereupon, the security shall become the property of the Owner, but if this Bid is not accepted within ninety (90) days of the time set for the submission of Bids, or if the Undersigned delivers the executed Contract upon receipt, the Security shall be returned to the Bidder within seven (7) working days.

**BID NO: 19-27**

**CORPORATE/COMPANY**

Full Legal Company Name: \_\_\_\_\_ (Seal)

By: \_\_\_\_\_  
Signature of Authorized Representative (Name & Title typed or printed)

By: \_\_\_\_\_  
Signature of Authorized Representative (Name & Title typed or printed)

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

Telephone No.: (\_\_\_\_) \_\_\_\_\_ Fax No.: (\_\_\_\_) \_\_\_\_\_

Email Address for Authorized Company Representative: \_\_\_\_\_

Federal I.D. Tax Number: \_\_\_\_\_ DUNS #: \_\_\_\_\_  
(If applicable)

**INDIVIDUAL**

Name: \_\_\_\_\_  
(Signature) (Name typed or printed) (Title)

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

Telephone No.: (\_\_\_\_) \_\_\_\_\_ Fax No.: \_\_\_\_\_

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

Federal I.D. Tax Number: \_\_\_\_\_

- Submittal Requirements:
- Official County Unit Price Bid Form
  - Attachment "A" – St Johns County Board of County Commissioners Affidavit
  - Attachment "B" – Certificate as to Corporate Principal
  - Attachment "C" – License / Certification List
  - Attachment "D" – List of Proposed Sub-Contractors/Suppliers
  - Attachment "E" – Conflict of Interest Disclosure Form
  - Attachment "F" – Drug-Free Workplace Form
  - Attachment "G" – Proof of Insurance
  - Attachment "H" – Experience of Bidder Form
  - Attachment "I" – Claims, Liens, Litigation History
  - Attachment "J" – Certificate of Compliance with Florida Trench Safety Act
  - Bid Bond Form
  - Fully Acknowledged Addenda Applicable to this bid

Official County Bid Form, Attachments "A", "B", "C", "D", "E", "F", "G", "H", "I", "J" and Bid Bond must be completed, along with a fully acknowledged copy of each Addendum applicable to this Bid and submitted with each copy of the Bid Proposal. One (1) original and two (2) copies of all required forms must be submitted.



BID NO.: 19-27

REMINGTON FOREST DRIVE DRAINAGE IMPROVEMENTS

ATTACHMENT "A"

ST. JOHNS COUNTY, BOARD OF COUNTY COMMISSIONERS AFFIDAVIT

TO: ST. JOHNS COUNTY, BOARD OF COUNTY COMMISSIONERS, ST. JOHNS COUNTY, ST. AUGUSTINE, FLORIDA.

At the time the proposal is submitted, the Bidder shall attach to his Bid a sworn statement.

This sworn statement shall be an affidavit in the following form, executed by an officer of the firm, association, or corporation submitting the proposal, and shall be sworn to before a person who is authorized by law to administer oaths.

STATE OF FLORIDA, COUNTY OF ST. JOHNS

Before me, the Undersigned authority, personally appeared \_\_\_\_\_ who being duly sworn, deposes and says he is \_\_\_\_\_ (Title) of the firm of \_\_\_\_\_ Bidder submitting the attached proposal for the services covered by the bid documents for Bid No: 19-27; Remington Forest Drive Drainage Improvements, in St. Johns County, Florida.

The affiant further states that no more than one proposal for the above-referenced project will be submitted from the individual, his firm or corporation under the same or different name, and that such Bidder has no financial interest in the firm of another bidder for the same work. That neither he, his firm, association nor corporation has either directly or indirectly entered into any agreement, participated in any collusion, nor otherwise taken any action in restraint of free competitive bidding in connection with this firm's Bid on the above-described project. Furthermore, neither the firm nor any of its officers are barred from participating in public contract lettings in the State of Florida or any other state.

\_\_\_\_\_  
(Bidder)

Sworn and subscribed to me this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_.

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

Notary Public:

\_\_\_\_\_  
(Title)

\_\_\_\_\_  
Signature

\_\_\_\_\_  
Printed

My commission Expires: \_\_\_\_\_

BIDDER ON ALL COUNTY PROJECTS MUST EXECUTE AND ATTACH THIS AFFADAVIT TO EACH BID.

BID NO.: 19-27

REMINGTON FOREST DRIVE DRAINAGE IMPROVEMENTS

ATTACHMENT "B"

**CERTIFICATES AS TO CORPORATE PRINCIPAL**

I, \_\_\_\_\_, certify that I am the Secretary of the Corporation named as Principal in the attached bond; that who signed the said bond on behalf of the Principal, was then \_\_\_\_\_ of said Corporation; that I know his signature, and his signature hereto is genuine; and that said bond was duly signed, sealed, and attested for and in behalf of said Corporation by authority of its governing body.

\_\_\_\_\_  
Secretary

\_\_\_\_\_  
Corporate Seal

(STATE OF FLORIDA  
COUNTY OF ST. JOHNS)

Before me, a Notary Public duly commissioned, qualified and acting, personally appeared to me well known, who being by me first duly sworn upon oath, says that he is the Attorney-In-Fact, for the and that he has been authorized by \_\_\_\_\_ to execute the foregoing bond on behalf of the surety named therein in favor of St. Johns County, Florida.

Subscribed and sworn to me this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_, A.D.

NOTARY PUBLIC  
State of Florida-at-large

My Commission Expires:

(Attach Power of Attorney to original Bid Bond and Financial Statement of Surety Company)



BID NO.: 19-27

REMINGTON FOREST DRIVE DRAINAGE IMPROVEMENTS

ATTACHMENT "D"

LIST OF PROPOSED SUBCONTRACTORS/SUPPLIERS

All subcontractors are subject to approval of County. The following are subcontractors proposed to be used in connection with this work:

DIVISION OF WORK

NAME & ADDRESS OF SUBCONTRACTORS/SUPPLIERS

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REMINGTON FOREST DRIVE DRAINAGE IMPROVEMENTS

ATTACHMENT "E"

St. Johns County Board of County Commissioners

CONFLICT OF INTEREST DISCLOSURE FORM

Project (RFQ, RFP, BID) Number/Description: Bid No 19-27; Remington Forest Drive Drainage Improvements

The term "conflict of interest" refers to situations in which financial or other considerations may adversely affect, or have the appearance of adversely affecting a consultant's/contractor's professional judgment in completing work for the benefit of St. Johns County ("County"). The bias such conflicts could conceivably impart may inappropriately affect the goals, processes, methods of analysis or outcomes desired by the County.

Consultants/Contractors are expected to safeguard their ability to make objective, fair, and impartial decisions when performing work for the benefit of the County. Consultants/Contractors, therefore must there avoid situations in which financial or other considerations may adversely affect, or have the appearance of adversely affecting the consultant's/contractor's professional judgement when completing work for the benefit of the County.

The mere appearance of a conflict may be as serious and potentially damaging as an actual distortion of goals, processes, and methods of analysis or outcomes. Reports of conflicts based upon appearances can undermine public trust in ways that may not be adequately restored even when the mitigating facts of a situation are brought to light. Apparent conflicts, therefore, should be disclosed and evaluated with the same vigor as actual conflicts.

It is expressly understood that failure to disclose conflicts of interest as described herein may result in immediate disqualification from evaluation or immediate termination from work for the County.

Please check the appropriate statement:

- I hereby attest that the undersigned Respondent has no actual or potential conflict of interest due to any other clients, contracts, or property interests for completing work on the above referenced project.
The undersigned Respondent, by attachment to this form, submits information which may be a potential conflict of interest due to other clients, contracts or property interests for completing work on the above referenced project.

Legal Name of Respondent: \_\_\_\_\_

Authorized Representative(s) : \_\_\_\_\_ Signature \_\_\_\_\_ Print Name/Title \_\_\_\_\_

Signature \_\_\_\_\_ Print Name/Title \_\_\_\_\_

BID NO.: 19-27

REMINGTON FOREST DRIVE DRAINAGE IMPROVEMENTS

St. Johns County Board of County Commissioners

ATTACHMENT "F"

DRUG-FREE WORKPLACE FORM

The undersigned firm, in accordance with Florida Statute 287.087 hereby certifies that

\_\_\_\_\_ does:

Name of Firm

1. Publish a statement notifying employees that the unlawful manufacture, distribution, dispensing, possession or use of a controlled substance is prohibited in the workplace and specifying the actions that will be taken against employees for violations of such prohibition.
2. Inform employees about the danger of drug abuse in the workplace, the business' policy of maintaining a drug-free workplace, any available drug counseling, rehabilitation, employee assistance programs and the penalties that may be imposed upon employees for drug abuse violations.
3. Give each employee engaged in providing the contractual services that are described in St. Johns County's request for proposals to provide bond underwriter services a copy of the statement specified in paragraph 1.
4. In the statement specified in paragraph 1, notify the employees that, as a condition of working on the contractual services described in paragraph 3, the employee will abide by the terms of the statement and will notify the employer of any conviction of, or plea of guilty or nolo contendere to, any violation of Florida Statute 893, as amended, or of any controlled substance law of the United States or any state, for a violation occurring in the workplace no later than five (5) days after such conviction or plea.
5. Impose a sanction on, or require the satisfactory participation in a drug abuse assistance or rehabilitation program if such is available in the employee's community by, any employee who is so convicted.
6. Consistent with applicable provisions with State or Federal law, rule, or regulation, make a good faith effort to continue to maintain a drug-free workplace through implementation of paragraphs 1 through 5.

As the person authorized to sign this statement, I certify that this firm complies fully with the above requirements.

\_\_\_\_\_  
Signature

\_\_\_\_\_  
Date

**BID NO.: 19-27**

**REMINGTON FOREST DRIVE DRAINAGE IMPROVEMENTS**

**ATTACHMENT "G"**

**CERTIFICATE OF INSURANCE**

(Attach or insert copy here)

**BID NO.: 19-27**

**REMINGTON FOREST DRIVE DRAINAGE IMPROVEMENTS**

**ATTACHMENT "H"**

**EXPERIENCE OF BIDDER**

Bidder acknowledges that he is fully licensed to perform work in the STATE OF FLORIDA.

The Bidder shall provide the following information regarding experience within the **past five (5) years** of this solicitation. Bidder must demonstrate the successful completion of **three (3) projects** of similar complexity, nature, size, and dollar amount of project.

Any material misrepresentation, as determined by the County, shall result in disqualification.

By: \_\_\_\_\_ Date \_\_\_\_\_  
Bidder

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

<b>DATE OF CONTRACT</b>	<b>CLIENT'S NAME, ADDRESS, PHONE AND EMAIL</b>	<b>CONTRACT AMOUNT</b>	<b>PROJECT AND LOCATION</b>



REMINGTON FOREST DRIVE DRAINAGE IMPROVEMENTS

Attachment "I"

CLAIMS, LIENS, LITIGATION HISTORY

(Complete and Submit)

1. Within the past 7 years, has your organization filed suit or a formal claim against a project owner (as a prime or subcontractor) or been sued by or had a formal claim filed by an owner, subcontractor or supplier resulting from a construction dispute? Yes \_\_\_\_\_ No \_\_\_\_\_ If yes, please attach additional sheet(s) to include:

Description of every action      Captions of the Litigation or Arbitration  
Amount at issue: \_\_\_\_\_ Name (s) of the attorneys representing all parties:

Amount actually recovered, if any: \_\_\_\_\_  
Name(s) of the project owner(s)/manager(s) to include address and phone number:  
\_\_\_\_\_

2. List all pending litigation and or arbitration.
3. List and explain all litigation and arbitration within the past seven (7) years - pending, resolved, dismissed, etc.
4. Within the past 7 years, please list all Liens, including Federal, State and Local, which have been filed against your Company. List in detail the type of Lien, date, amount and current status of each Lien.

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

5. Have you ever abandoned a job, been terminated or had a performance/surety bond called to complete a job?  
Yes \_\_\_\_\_ No \_\_\_\_\_ If yes, please explain in detail:

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

6. For all claims filed against your company within the past five-(5) years, have all been resolved satisfactorily with final judgment in favor of your company within 90 days of the date the judgment became final? Yes \_\_\_\_\_ No \_\_\_\_\_  
If no, please explain why? \_\_\_\_\_

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

7. List the status of all pending claims currently filed against your company:

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

**Liquidated Damages**

1. Has a project owner ever withheld retainage, issued liquidated damages or made a claim against any Performance and Payment Bonds? Yes \_\_\_\_\_ No \_\_\_\_\_ If yes, please explain in detail: \_\_\_\_\_

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

(Use additional or supplemental pages as needed)

**BID NO.: 19-27**

**REMINGTON FOREST DRIVE DRAINAGE IMPROVEMENTS**

**ATTACHMENT "J"**

**CERTIFICATE OF COMPLIANCE WITH FLORIDA TRENCH SAFETY ACT**

Bidder acknowledges that he is solely responsible for complying with the Florida Trench Safety Act (ACT) and Occupational Safety and Health Administrations excavation safety standard 29 CFR 1926.650 (Subpart P as amended) and the St. Johns County Trenching and Excavation Safety Program. If there is a conflict between the ACT and the St. Johns County Trenching and Excavation Safety Program, the more stringent requirement would apply. Bidder further acknowledges that included in the various items of the proposal and in the Total Bid Price are costs for complying with the Florida Trench Safety Act (90-96, Laws of Florida) effective October 1, 1990 and the Occupational Safety and Health Administrations excavation safety standard.

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

\_\_\_\_\_  
Bidder

\_\_\_\_\_  
Date

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

BID NO.: 19-27

REMINGTON FOREST DRIVE DRAINAGE IMPROVEMENTS

BID BOND

STATE OF FLORIDA  
COUNTY OF ST. JOHNS

KNOW ALL MEN BY THESE PRESENTS, that \_\_\_\_\_ as Principal, and as Surety, are held and firmly bound unto St. Johns County, Florida, in the penal sum of \_\_\_\_\_ Dollars (\$ \_\_\_\_\_) lawful money of the United States, we bind ourselves, our heirs, executors, administrators, and successors, jointly and severally, firmly by these presents.

THE CONDITION OF THIS OBLIGATIONS IS SUCH that whereas the Principal has submitted the accompanying Bid, dated \_\_\_\_\_, 20\_\_.

For

REMINGTON FOREST DRIVE DRAINAGE IMPROVEMENTS

St. Johns County, Florida

NOW THEREFORE,

- (a) If the Principal shall not withdraw said Bid within ninety (90) days after Bid Award date, and shall within ten (10) days after prescribed forms are presented to him for signature, enter into a written Contract with the County in accordance with the Bid as accepted, and give Bond with good and sufficient Surety or Sureties, as may be required, for the faithful performance and proper fulfillment of such Contract, then the above obligations shall be void and of no effect, otherwise to remain in full force and virtue.
- (b) In the event of the withdrawal of said Bid within the period specified, or the failure to enter into such Contract and give such Bond within the time specified, if the Principal shall pay the County the difference between the amount specified, in said Bid and the amount for which the County may procure the required Work and supplies, if the latter amount be in excess of the former, then the above obligations shall be void and of no effect, otherwise to remain in full force and virtue.

IN WITNESS WHEREOF, the above bounded parties have executed this instrument under their several seals, this day of \_\_\_\_\_ A.D., 20\_\_, the name and corporate seal of each corporate party being hereto affixed and these presents duly signed by its undersigned representative, pursuant to authority of its governing body.

**BID NO.: 19-27**

**WITNESSES:**

(If Sole Ownership or Partnership two (2) Witnesses required).  
(If Corporation, Secretary only will attest and affix seal).

**WITNESSES:**

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

\_\_\_\_\_  
**PRINCIPAL:**

\_\_\_\_\_  
**NAME OF FIRM:**

\_\_\_\_\_  
**SIGNATURE OF AUTHORIZED  
OFFICER (AFFIX SEAL)**

\_\_\_\_\_  
**TITLE**

\_\_\_\_\_  
**BUSINESS ADDRESS**

\_\_\_\_\_  
**CITY**

**STATE**

**WITNESS:**

\_\_\_\_\_

\_\_\_\_\_  
**SURETY:**

\_\_\_\_\_  
**CORPORATE SURETY**

\_\_\_\_\_  
**ATTORNEY-IN-FACT (AFFIX SEAL)**

\_\_\_\_\_  
**BUSINESS ADDRESS**

\_\_\_\_\_  
**CITY**

**STATE**

\_\_\_\_\_  
**NAME OF LOCAL INSURANCE AGENCY**

# SPECIFICATIONS

## **BID NO.: 19-27; REMINGTON FOREST DRIVE DRAINAGE IMPROVEMENTS**

### **SCOPE OF WORK:**

#### **I. PROJECT OVERVIEW**

The Contractor shall be responsible for providing any and all labor, materials, and equipment required in order for construction of drainage improvements in the vicinity of an existing culverted cross drain on Remington Forest Drive, in St. Johns County, Florida. The existing cross drain is located southeast of the Remington Forest Drive / State Road 13 intersection and consists of dual 30-inch diameter corrugated metal pipes. The existing deteriorated cross drain will be replaced with dual 42" diameter reinforced concrete pipes. The project will also include the construction of new curb and gutter parallel to the roadway to address erosion issues. The curb and gutter will direct roadway runoff to curb inlets positioned near the cross drain. The existing ditch pavement will be replaced. The existing roadway will be milled and resurfaced within limits of the curb and gutter construction. The project also includes the relocation of a Jacksonville Electric Authority (JEA) water main.

#### **II. SCOPE OF WORK**

##### **A. GENERAL NOTES AND CONSTRUCTION REQUIREMENTS**

1. Contractor shall verify locations of existing structures, improvements, utilities (both overhead and underground), property lines, and confirm all proposed dimensions and elevations prior to commencing any construction or ordering any materials.
2. Existing overhead electrical lines are located within project limits. Use extreme caution to protect men, machinery and utilities.
3. Contractor is responsible for the control of sedimentation runoff resulting from storm events during the construction phase. Erosion control facilities should be installed early during the construction period so as to prevent the transport of sediment into surface waters. Re-vegetation and stabilization of disturbed areas should be accomplished as soon as possible to reduce the potential of soil erosion. Contractor is responsible for compliance with permits issued for the project including St. Johns River Water Management District (SJRWMD), Department of Environmental Protection (DEP) Water, DEP Sewer, National Pollutant Discharge Elimination System (NPDES), and United States Army Corps of Engineers (USACOE).
4. All disturbed areas shall be sodded, seeded and mulched or landscaped in accordance with the plans. Contractor is responsible for establishing grass and plantings on all disturbed areas. All slopes steeper than 3:1 shall be staked sod.
5. All work shall be completed in a safe manner. All safety rules and guidelines of the Occupational Safety and Health Administration (OSHA) shall be followed. The Contractor shall be wholly responsible for any injuries of his employees and any damage to private property or persons resulting from this job.
6. The Contractor shall be responsible for visiting the job site prior to preparing his bid for the purpose of familiarizing himself with the nature and the extent of the work and local conditions, either overhead, surface or subsurface, which may affect the work to be performed and the equipment, labor and material required. Failure to do so will not relieve the Contractor of complete performance under this contract.
7. The Contractor shall be responsible for obtaining all necessary permits and insurance required for the project. Contractor is responsible for construction staking and layout of the project in accordance with the construction plans.

8. The Contractor shall be responsible for removal/disposal of any unsuitable materials including but not limited to debris such as broken concrete, roots, trees, muck, etc. from his operation and furnishing and compacting suitable replacement backfill material.
9. All construction shall be in accordance with St. Johns County Land Development Code (LDC) and Florida Department of Transportation (FDOT) Standard Specifications for Road and Bridge Construction, details, and specifications unless otherwise noted. In the case of water and sewer construction, construction shall be in accordance with latest St. Johns County standards, as well as applicable state and local codes. Fire hydrants shall meet St. Johns County requirements. Thrust restraint shall be accomplished using pipe restraining devices. Tie rods with thrust blocks shall not be allowed.
10. The Contractor shall notify all utility companies prior to construction for verification and location of utilities. Prior to working in a County Right-of-Way (ROW) or easement, a County issued permit is required.
11. All underground utilities must be installed prior to preparation of subgrade for pavement.
12. Should the surface or subsurface conditions vary from what is shown on these plans, the Contractor shall immediately notify the Engineer.
13. Tack coat is required on primed bases that have become dirty or cannot be cleaned, or where the prime coat has cured and lost all bonding effect. Tack coat shall comply with FDOT standards.
14. Benchmark (B.M.) data is North American Vertical Datum of 1988 (NAVD-'88).
15. Grades shown in the construction plans are finished grades.
16. Existing drainage structures within the construction limits shall be removed unless otherwise noted.
17. Any public land corner within the limits of construction is to be protected.
18. All mail boxes shall be maintained during construction. Mailboxes damaged during construction shall be replaced by the Contractor at his expense.
19. St. Johns County engineering inspector shall be notified twenty-four (24) hours prior to all necessary site work inspections and five (5) days prior to the final inspection.
20. Contractor shall secure a stockpile location. Contractor shall not stockpile materials within the roadway right-of-way.
21. All box culverts and mast arm foundations must be designed and built by the Contractor. All structural drawings must be signed and sealed by a Florida Professional Engineer (PE). All drawings must be submitted to the Engineer for review before construction of structural items begins.
22. All pond slopes shall be sodded from the normal water level to the limits of construction.
23. Super-elevation slope ratios and shoulder construction are to comply with FDOT Index 510. FDOT Indexes may be accessed through the following link:  

<http://www.fdot.gov/design/standardplans/current/>
24. Contractor shall construct embankment in the dry whenever normal dewatering equipment and methods can accomplish the needed dewatering. In accordance with FDOT standard specifications, Contractor shall provide normal dewatering equipment including, but not limited to, surface pumps, sump pumps and trenching/digging machinery. Contractor shall provide normal dewatering methods including, but not

limited to, constructing shallow surface drainage trenches/ditches, using sand blankets, sumps and siphons. When normal dewatering does not adequately remove the water, the Engineer may require the embankment material to be placed in the water or in low swampy ground in accordance with FDOT standard specifications. Where depositing the material in water, or in low swampy ground that will not support the weight of hauling equipment, Contractor shall construct the embankment by dumping successive loads in a uniformly distributed layer of a thickness not greater than necessary to support the hauling equipment while placing subsequent layers. Once sufficient material has been placed so that the hauling equipment can be supported; Contractor shall construct the remaining portion of the embankment in layers in accordance with the applicable provisions of the FDOT standard specifications.

25. All driveway turnouts shall comply with FDOT Indexes 515 and 516 and with St. Johns County Land Development Code (SJC LDC). The maximum grade change without a vertical curve is three percent (3%). The minimum length for vertical curves on roadway and driveway connections and turnouts is ten feet (10').
26. All drainage pipes installed within roadway right-of-ways/easements (public or private) shall be televised by a company or individual certified to perform such work per SJC LDC 6.04.07.1.5.g. This requirement may only be waived on commercial sites if the Engineer of Record (EOR) certifies by letter that the site does not receive any runoff from St. Johns County right-of-ways. If there is any connection or relationship between the project site and a County owned or maintained ditch, pond or structure, it shall be required. This televising of the drainage line shall be done in color and shall be of such quality as to visually identify the proper construction of all joints and pipe alignment. A video tape shall be provided to the County upon completion. The televising of the drainage lines shall be performed after the placement of the base material and prior to the final wearing surface of the roadway. Approval, by the County, of the televising shall be required prior to the placement of the final wearing surface of the roadway. The televised record shall be reviewed and certified by the Engineer of Record (EOR).
27. The Contractor shall contract with an independent testing laboratory to perform material testing and soil testing in accordance with county requirements

#### **B. DEMOLITION REQUIREMENTS**

All construction/demolition and disposal to be in accordance with applicable codes and environmental rules and regulations.

#### **C. SIDEWALK, PAVING**

1. Concrete sidewalks shall be minimum 4" thick, 3000 psi concrete. Construction joints at 20 feet, tooled joints at 5 feet, tooled edges, Broom finish. At handicapped ramps, detectable surface and detail required per FDOT Index No. 304.
2. Contractor should make allowance for sod during grading operations. Sidewalks shall not be lower than surrounding sodded areas.
3. All manholes, valve boxes, cleanouts, and other access facilities must be at finished elevations in paving, sidewalks and grassed areas.
4. Pavements to be marked as shown and in accordance with details referenced. Pavement markings shall be extruded thermoplastic with reflective markers in accordance with FDOT standards.
5. All detectable warning surfaces for sidewalk at curb cut handicap ramps can be a St. Johns County approved rigid yellow colored composite material anchored in the concrete sidewalk ramp. Anchored composite warning area inserts are to be colored "safety yellow", and set into the concrete flush with the concrete surface along all four sides. Design dimensions of detectable warning area shall conform to Florida Department of Transportation (FDOT) Standard Index 304, sheets 1 through 7, and 28 Code of Federal



Regulations (CFR) Part 36, Appendix A ,latest revision, as well as applicable County requirements. LDC section 6.04.02.c.

6. The detectable warning surface can be cast in place and have a standard color of yellow. Any type of adhesive or glue-down mats, stamped concrete or any variation other than what is specified below will not be accepted by St. Johns County.

Acceptable products:

Cast in Place Composite Tactile by ADA Solutions, Inc.  
6789 Philips Industrial Blvd.  
Jacksonville, FL 32256  
904-268-7511, 800-729-3849 (toll free), 904-268-3133 (fax)

Armorcast Products Company  
13230 Saticoy Street  
North Hollywood, CA 91605  
818-982-7742, 818-982-3600 (fax)

Detectable Warning Systems  
8081 Philips Highway # 22  
Jacksonville, FL 32256  
www.detectable-warning.com  
866-999-7452

#### **D. DRAINAGE**

1. Drainage pipe 15" and greater shall be metal reinforced concrete pipe, wall b. Concrete pipe to have all joints wrapped with filter Fabric in accordance with FDOT Standard Index No. 280, unless otherwise approved by the County, the Engineer and the Owner.
2. Upon completion of all construction and after all landscaping, planting, and all site work is completed, the project site shall be Left clean. Upon completion the ponds shall be pumped down if required by the County and all storm drain lines will be lamped to check pipe and inlets in the presence of the engineer. Dirty lines as determined by the engineer shall be cleaned as required.

#### **E. "AS-BUILT" DRAWING REQUIREMENTS**

1. "As-built" drawings will be required from the Contractor. All dimensions must be parallel to or perpendicular to property lines, buildings, or other permanent structures. After reviews and approval by the Engineer, two (2) final copies of "as-built" drawings shall be provided on reproducible Mylar. As-built drawing shall also be provided in AutoCAD format version 12 or later. As-built drawings shall be certified by a Florida Registered Land Surveyor.
2. Contractor shall provide the following "as-built" information:

##### Drainage Systems:

Locate all drainage structures in two directions: indicate elevation of top, grate, throat, weir, orifice, and pipe inverts for all structures. Indicate pipe sizes and type, size of throats, weirs, orifices, and other special structure features. Locate cleanouts with top and invert elevations. Obtain sufficient elevations on pavement, curb and gutter, grass areas, and sidewalks to show positive drainage in conformance with plans.

##### Storm Water Lakes:

Lakes shall be cross sectioned a minimum of fifty foot (50') intervals with sufficient information indicated to show compliance with requirements of St. Johns County and St. Johns River Water Management District.

3. "As-built" drawings shall also comply with any additional requirements set by the JEA.
4. Submittal of as-built site survey, including benchmarks, is required in compliance with section 6.04.00 of the St. Johns County Land Development Review Manual prior to scheduling a final inspection by the Engineering Department and Fire Marshall.

### **III. STORM WATER POLLUTION PREVENTION PLAN**

#### **A. STORM WATER MANAGEMENT**

Storm water drainage will be provided by drainage swales storm sewer, curb inlets and catch basins for the developed Areas. Areas which are not developed but will be regraded shall be stabilized immediately after grading is complete. When construction is complete, a total of 2.0~ acres will have been regraded, 0.0 acres left undisturbed with a total of 0.0 acres of wet retention. The drainage area for the retention system is 0.0 acres. Where practical, the temporary sediment basin will be in the location of the permanent retention basin. When up slope areas are stabilized, the accumulated sediment will be removed from Sediment basin, and the areas on the side of the basin will be planted with vegetation. The wet detention system is designed with a 21 day minimum residence volume of 0.0 acre-feet. This is in accordance with the requirements set forth by the St. Johns River Water Management District for this type of development at the time of permitting.

#### **B. GENERAL**

The Contractor shall at a minimum implement the Contractor's requirements control plan. In addition the Contractor shall undertake additional measures required to be in compliance with applicable permit conditions and state water quality standards. Depending on the nature of materials and methods of construction the Contractor may be required to add flocculent to the retention system prior to placing the system into operation.

#### **C. SEQUENCE OF MAJOR ACTIVITIES**

The order of activities will be as follows:

1. Install stabilized Construction entrance;
2. Install silt fences and hay bales as required;
3. Clear and grub for diversion swales/dikes and sediment basin;
4. Construct sedimentation basin;
5. Continue clearing and grubbing;
6. Stock pile top soil if required;
7. Perform preliminary grading on site as required;
8. Stabilize denuded areas and stockpiles as soon as practicable;
9. Install utilities, storm sewer, curbs & gutter;
10. Complete grading and install permanent seeding/sod and planting;
11. Complete final paving;
12. Remove accumulated sediment from basins; and
13. When all construction activity is complete and the site is stabilized, remove any temporary diversion swales/dikes and reseed/sod as required.

#### **D. TIMING OF CONTROLS/MEASURES**

As indicated in the sequence of major activities, the silt fences and hay bales, stabilized construction entrance and sediment basin will be constructed prior to clearing or grading of any other portions of the site. Stabilization measures shall be initiated as soon as practical in portions of the site where construction activities have temporarily or permanently ceased. Once construction activity ceases permanently in an area, that area will be stabilized permanently in accordance with the plans. After the entire site is stabilized, the accumulated sediment will be removed from the sediment traps and the earth dike/swales will be regraded/removed and stabilized in accordance with the erosion & turbidity control plan.

#### **E. CONTROLS**

It is the Contractor's responsibility to implement the erosion and turbidity controls as shown on the erosion and turbidity control plan. It is also the Contractor's responsibility to ensure these controls are properly installed, maintained and functioning properly to prevent turbid or polluted water from leaving the project site. The Contractor will adjust the erosion and turbidity controls shown on the erosion and sediment control plan (Sheet No. 19 of the attached construction plans) and add additional control measures, as required, to ensure the site meets all federal, state and local erosion and turbidity control requirements. The following best management practices will be implemented by the Contractor as required by the erosion and turbidity control plan and as required to meet the erosion and turbidity requirements imposed on the project site by the regulatory agencies.

##### **Erosion and sediment controls:**

##### **Stabilization practices**

1. Straw bale barrier: straw bale barriers can be used below disturbed areas subject to sheet and rill erosion with the following limitations:
  - (a.) Where the maximum slope behind the barrier is thirty-three percent (33%).
  - (b.) In minor swales or ditch lines where the maximum contributing drainage area is no greater than two (2) acres.
  - (c.) Where effectiveness is required for less than 3 months.
  - (d.) Every effort should be made to limit the use of straw bale barriers constructed in live streams or in swales where there is the possibility of a washout. If necessary, measures shall be taken to properly anchor bales to insure against washout.
2. Filter fabric barrier: filter fabric barriers can be used below disturbed areas subject to sheet and rill erosion with the following limitations:
  - (a.) Where the maximum slope behind the barrier is thirty-three percent (33%).
  - (b.) In minor swales or ditch lines where the maximum contributing drainage area is no greater than two (2) acres.
3. Brush barrier with filter fabric: brush barrier may be used below disturbed areas subject to sheet and rill erosion where enough residue material is available on site.
4. Level spreader: a level spreader may be used where sediment-free storm runoff is intercepted and diverted away from the graded areas onto undisturbed stabilized areas. This practice applies only in those situations where the spreader can be constructed on undisturbed soil and the area below the level lip is stabilized. The water should not be allowed to re-concentrate after release.

5. Stockpiling material: no excavated material shall be stockpiled in such a manner as to direct runoff directly off the project site into any adjacent water body or storm water collection facility.
6. Exposed area limitation: the surface area of open, raw erodible soil exposed by clearing and grubbing operations or excavation and filling operations shall not exceed ten (10) acres. This requirement may be waived for large projects with an erosion control plan which demonstrates that opening of additional areas will not significantly affect off-site deposit of sediments.
7. Inlet protection: inlets and catch basins which discharge directly off-site shall be protected from sediment-laden storm runoff until the completion of all construction operations that may contribute sediment to the inlet.
8. Temporary seeding: areas opened by construction operations and that are not anticipated to be re-excavated or dressed and receive final grassing treatment within thirty (30) days shall be seeded with a quick growing grass species which will provide an early cover during the season in which it is planted and will not later compete with the permanent grassing.
9. Temporary seeding and mulching: slopes steeper than 6:1 that fall within the category established in paragraph 8 above shall additionally receive mulching of approximately two (2) inches loose measure of mulch material cut into the soil of the seeded area adequate to prevent movement of seed and mulch.
10. Temporary grassing: the seeded or seeded and mulched area(s) shall be rolled and watered or hydro mulched or other suitable methods if required to assure optimum growing conditions for the establishment of a good grass cover.
11. Temporary re-grassing: if, after fourteen (14) days from seeding, the temporary grassed areas have not attained a minimum of seventy-five percent (75%) good grass cover, the area will be reworked and additional seed applied sufficient to establish the desired vegetative cover.
12. Maintenance: all features of the project designed and constructed to prevent erosion and sediment shall be maintained during the life of the construction so as to function as they were originally designed and constructed.
13. Permanent erosion control: the erosion control facilities of the project should be designed to minimize the impact on the offsite facilities.
14. Permanent seeding: all areas which have been disturbed by construction will, as a minimum, be seeded. The seeding mix must provide both long-term vegetation and rapid growth seasonal vegetation. Slopes steeper than 4:1 shall be seeded and mulched or sodded.

#### Structural Practices

1. Temporary diversion dike: temporary diversion dikes may be used to divert runoff through a sediment-trapping facility.
2. Temporary sediment trap: a sediment trap is usually installed in an drainage way at a storm drain inlet or at other points of discharge from a disturbed area with the following limitations:
  - (a.) The sediment trap may be constructed either independently or in conjunction with a temporary diversion dike.
3. Outlet protection: applicable to the outlets of all pipes and paved channel sections where the velocity of flow at design capacity of the outlet will exceed the permissible velocity of the receiving channel or area.

4. Sediment basin: will be constructed at the common drainage locations that serve an area with ten (10) or more disturbed acres at one time, the proposed storm water ponds (or temporary ponds) will be constructed for use as sediment basins. These sediment basins must provide a minimum of 3,600 cubic feet of storage per acre drained until final stabilization of the site. The 3,600 cubic feet of storage area per acre drained does not apply to flows from offsite areas and flows from onsite areas that are either undisturbed or have undergone final stabilization where such flows are diverted around both the disturbed area and the sediment basin. Any temporary sediment basins constructed must be back filled and compacted in accordance with the specifications for structural fill. All sediment collected in permanent or temporary sediment traps must be removed upon final stabilization.

#### **F. OTHER CONTROLS**

##### **WASTE DISPOSAL:**

**Waste Materials:** All waste materials except land clearing debris shall be collected and stored in a securely lidded metal dumpster. The dumpster will meet all local and state solid waste management regulations. The dumpster will be emptied as needed and the trash will be hauled to a state approved landfill. All personnel will be instructed regarding the correct procedure for waste disposal. Notices stating these practices will be posted at the construction site by the construction superintendent, the individual who manages the day-to-day site operations, will be responsible for seeing that these procedures are followed.

**Hazardous Waste:** All hazardous waste materials will be disposed of in the manner specified by local or state regulation or by the manufacturer. Site personnel will be instructed in these practices and the site superintendent, the individual who manages day-to-day site operations, will be responsible for seeing that these practices are followed.

**Sanitary Waste:** All sanitary waste will be collected from the portable units as needed to prevent possible spillage. The waste will be collected and disposed of in accordance with state and local waste disposal regulations for sanitary sewer or septic systems.

**Offsite Vehicle Tracking:** A stabilized construction entrance will be provided to help reduce vehicle tracking of sediments. The paved street adjacent to the site entrance will be swept daily to remove any excess mud, dirt, or rock tracked from the site. Dump trucks hauling material from the construction site will be covered with a tarpaulin

#### **G. INVENTORY FOR POLLUTION PREVENTION PLAN**

The materials or substances listed below are expected to be present on site during construction:

- Concrete,
- Asphalt,
- Tar,
- Detergents,
- Fertilizers,
- Petroleum-based Products,
- Cleaning Solvents,
- Paints, and
- Wood

#### **H. SPILL PREVENTION**

**MATERIAL MANAGEMENT PRACTICES:** The following are the material management practices that will be used to reduce the risk of spills or other accidental exposure of materials and substances to storm water runoff.

**Good Housekeeping:** The following good housekeeping practices will be followed on-site during the

construction project:

- An effort will be made to store only enough product required to do the job.
- All materials stored on site will be stored in a neat, orderly manner in their appropriate containers and, if possible, under a roof or other enclosure.
- Products will be kept in their original containers with the original manufacturer's label.
- Substances will not be mixed with one another unless recommended by the manufacturer.
- Whenever possible, all of a product will be used up before disposing of the container.
- Manufacturer's recommendations for proper use and disposal will be followed.
- The site superintendent will inspect daily to ensure materials on-site receive proper use and disposal.

**Hazardous Products:** These practices are used to reduce the risks associated with hazardous materials.

- Products will be kept in original containers unless they are not re-sealable.
- Original labels and material safety data will be retained; they contain important product information.
- If surplus product must be disposed of, manufacturers or local and state recommended methods for proper disposal will be followed.

**Product Specific Practices:** The following product specific practices will be followed on-site:

Petroleum products: All on-site vehicles will be monitored for leaks and receive regular preventive maintenance to reduce the chance of leakage. Petroleum products will be stored in tightly sealed containers which are clearly labeled. Any asphalt substances used on site will be applied according to the manufacturer's recommendations

Fertilizers: Fertilizers used will be applied only in the minimum amounts recommended by the manufacturer. Once applied, fertilizer will be worked into the soil to limit exposure to storm water. Storage will be in a covered area. The contents of any partially used bags of fertilizer will be transferred to a sealable plastic bin to avoid spills.

Paints: All containers will be tightly sealed and stored when not required for use. Excess paint will not be discharged to the storm sewer system but will be properly disposed of according to manufacturers' instructions or state and local regulations.

Concrete trucks: Concrete trucks will not be allowed to wash out or discharge surplus concrete or drum wash water on the site.

## **I. SPILL CONTROL PRACTICES**

In addition to the good housekeeping and material management Practices discussed in the previous sections of this plan, the Following practices will be followed for spill prevention and Cleanup:

- Manufacturers' recommended methods for spill cleanup will be clearly posted on site and site personnel will be made aware of the Procedures and the location of the information and cleanup Supplies.
- Materials and equipment necessary for spill cleanup will be kept in the material storage area on site. Equipment and materials will include but not be limited to brooms, dust pans, mops, rags, gloves, goggles, liquid absorbent (i.e. Kitty litter or equal), sand, sawdust, and plastic and metal trash containers specifically for this purpose.
- All spills will be cleaned up immediately after discovery.

- The spill area will be kept well ventilated and personnel will wear appropriate protective clothing to prevent injury from contact with a hazardous substance.
- Spill of toxic or hazardous material will be reported to the appropriate state or local government agency, regardless of the size of the spill.
- Prevent this type of spill from reoccurring and how to clean up the spill if there is another one. A description of the spill, what caused it, and the cleanup measures will also be included.
- The site superintendent responsible for the day-to-day site operations, will be the spill prevention and cleanup coordinator. He/she will designate at least one other site personnel who will receive spill prevention and cleanup training. These individuals will each become responsible for a particular phase of prevention and cleanup. The names of responsible spill personnel will be posted in the material storage area and if applicable, in the office trailer on site.

#### **J. MAINTENANCE/INSPECTION PROCEDURES**

**EROSION AND SEDIMENT CONTROL INSPECTION AND MAINTENANCE PRACTICES:** The following are inspection and maintenance practices that will be used to maintain erosion and sediment controls.

- No more than ten (10) acres of the site will be denuded at one time without written permission from the Engineer.
- All control measures will be inspected by the superintendent, the person responsible for the day to day site operation or someone appointed by the superintendent, at least once a week and following any storm event of 0.25 inches or greater.
- All turbidity control measures will be maintained in good working order; if a repair is necessary, it will be initiated within twenty-four (24) hours of report.
- Built up sediment will be removed from silt fence when it has reached one-third (1/3) the height of the fence.
- Silt fence will be inspected for depth of sediment, tears, to see if the fabric is securely attached to the fence posts, and to see that the fence posts are firmly in the ground.
- The sediment basins will be inspected for the depth of sediment, and built up sediment will be removed when it reaches ten percent (10%) of the design capacity or at the end of the job.
- Diversion dikes/swales will be inspected and any breaches promptly repaired.
- Temporary and permanent seeding and planting will be inspected for bare spots, washouts, and healthy growth.
- A maintenance inspection report will be made after each inspection. The reports will be kept on site during construction and available upon request to the owner, engineer or any federal, state or local agency approving sediment and erosion plans, or storm water management plans. The reports shall be made and retained as part of the storm water pollution prevention plan for at least three years from the date that the site is finally stabilized and the notice of termination is submitted. The reports shall identify any incidents of non-compliance.
- The site superintendent will select up to three individuals who will be responsible for inspections, maintenance and repair activities, and filling out the inspection and maintenance report.

- Personnel selected for inspection and maintenance responsibilities will receive training from the site Superintendent. They will be trained in all the inspection and maintenance practices necessary for keeping the erosion and sediment controls used on site in good working order

**NON-STORM WATER DISCHARGES:** It is expected that the following non-storm water discharges will occur from the site during the construction period:

- Water from water line flushing;
- Pavement wash waters (where no spills or leaks of toxic or hazardous materials have occurred); and
- Uncontaminated groundwater (from dewatering excavation).

All non-storm water discharges will be directed to the sediment basin prior to discharge

**K. SEDIMENT AND EROSION CONTROL NOTES**

1. The Contractor shall adhere to the requirements in the most recent version of the Florida Erosion & Sediment Control Manual, June 2007 (the current edition of the manual can be accessed at following link: <http://www.fdot.gov/roadway/Drainage/ManualsandHandbooks.shtm>)
2. The Contractor is responsible for removing silt from site if not reusable on-site and assuring plan alignment and grade in all ditches and swales at completion of construction.
3. The site contractor is responsible for removing the temporary erosion and sediment control devices after completion of construction and only when areas have been stabilized.
4. Additional protection - on-site protection in addition to the above must be provided that will not permit silt to leave the project confines due to unseen conditions or accidents.
5. Contractor shall insure that all drainage structures, pipes, etc. are cleaned out and working properly at time of acceptance.
6. Wire mesh shall be laid over the drop inlet so that the wire extends a minimum of one foot (1') beyond each side of the inlet structure. Hardware cloth or comparable wire mesh with one-half inch (1/2") openings shall be used. If more than one strip of mesh necessary, the strips shall be overlapped
7. FDOT No. 1 coarse aggregate shall be placed over the wire mesh as indicated on plate 1.08c. The depth of stone shall be at least twelve inches (12") over the entire inlet opening. The stone shall extend beyond the inlet opening at least eighteen inches (18") on all sides.
8. If the stone filter becomes clogged with sediment so that it no longer adequately performs its function, the stones must be pulled away from the inlet, cleaned and replaced.
9. Bales shall be either wire-bound or string-tied with the bindings oriented around the sides rather than over and under the bales.
10. Bales shall be placed lengthways in a single row surrounding the inlet, with the ends of adjacent bales pressed together.
11. The filter barrier shall be entrenched and backfilled. A trench shall be excavated to a minimum depth of four inches (4"). After the bales are staked, the excavated soil shall be backfilled and compacted against the filter barrier.



12. Each bale shall be securely anchored and held in place by at least two stakes or rebars driven through the bale.
13. Loose material should be wedged between bales to prevent water from entering between bales.
14. Bale barriers shall be inspected immediately after each rainfall and at least daily during prolonged rainfall.
15. Close attention shall be paid to the repair of damaged bales end runs and undercutting beneath bales.
16. Necessary repairs to barriers or replacement of shall be accomplished promptly.
17. Sediment deposits should be removed after each rainfall. They must be removed when the level of deposition reaches approximately one-half (1/2) the height of the barrier.
18. Any sediment deposits remaining in place after the straw bale barrier is no longer required shall be dressed to conform to the existing grade, prepared and seeded.
19. Silt fences and filter barriers shall be inspected immediately after each rainfall and at least daily during prolonged rainfall. Any required repairs shall be made immediately.
20. Should the fabric on a silt fence or filter barrier decompose or become ineffective prior to the end of the expected usable life and the barrier still be necessary, the fabric shall be replaced promptly.
21. Sediment deposits should be removed after each storm event. They must be removed when deposits reach approximately one-half (1/2) the height of the barrier.
22. Any sediment deposits remaining in place after the silt fence or filter barrier is no longer required shall be dressed to conform to the existing grade, prepared and seeded.
23. The structure shall be inspected after each rain and repairs made as needed.
24. Sediment shall be removed and the trap restored to its original dimensions when the sediment has accumulated to the design depth of the trap. Removed sediment shall be deposited in a suitable area and in such a manner that it will not erode.
25. The Contractor is responsible for following the best erosion and sediment control practices as outlined in the plans, specifications and St. Johns River Water Management District (SJRWMD) Specifications and criteria.
26. Erosion and sediment control barriers shall be placed adjacent to all wetland areas where there is potential for downstream water quality degradation. See detail sheet No. 18 of the attached construction plans for typical construction.
27. All disturbed areas shall be grassed, fertilized, mulched and maintained until a permanent vegetative cover is established.
28. Sod shall be placed in areas which may require immediate erosion protection to ensure water quality standards are Maintained.
29. Any discharge from dewatering activity shall be filtered and conveyed to the outfall in a manner which prevents erosion and transportation of suspended solids to the receiving outfall.
30. Dewatering pumps shall not exceed the capacity of that which requires a consumptive use permit from the St. Johns River Water Management District

31. All disturbed areas to be stabilized through compaction, silt screens, bales, and grassing. All fill slopes 3:1 or steeper to receive staked solid sod.
32. All dewatering, erosion, and sediment control to remain in place after completion of construction and only when areas have been stabilized.
33. This plan indicates the minimum erosion and sediment measures required for this project. The Contractor is responsible for meeting all applicable rules, regulations and water quality guidelines and may need to install additional controls.
34. The Contractor shall be required to respond to all Water Management District inquiries, relative to compliance of SJRWMD for erosion and sedimentation control. The cost of this compliance shall be part of the contract.

#### **L. TRAFFIC CONTROL**

1. The Contractor shall provide for all lanes of traffic to be open in the case of an emergency. The Contractor shall respond and provide adjustments as directed by the project engineer without delay under these conditions. The Contractor shall also respond within thirty (30) minutes upon notification by the project engineer to any requests for correction, improvement or modification to the traffic control plan and/or devices.
2. The Contractor shall adhere to the requirements set forth in the U.S. Department of Transportation, Federal Highway Administration Manual On Uniform Traffic Control Device (M.U.T.C.D.) current edition (2009) (available at [https://mutcd.fhwa.dot.gov/pdfs/2009r1r2/pdf\\_index.htm](https://mutcd.fhwa.dot.gov/pdfs/2009r1r2/pdf_index.htm)) and series 600 of the F.D.O.T. Design Standards, current edition ( available at <http://www.fdot.gov/design/standardplans/current/> ) at all times.
3. All traffic control devices (temporary signs, pavement markings, barrier walls, etc.) required during a construction phase shall be installed and approved by the project engineer or representative prior to the diversion of traffic and the commencement of construction, and shall be maintained in accordance with FDOT Index 600. FDOT Index 600 shall be used in conjunction with all other indexes specifically mentioned in each traffic control phase.
4. All existing signs and pavement markings, which conflict with the traffic control plan during a construction phase shall be removed or temporarily relocated as necessary prior to the diversion of traffic and the commencement of construction. The removal of existing pavement markings can be accomplished by any method approved by the project Engineer. Painting over existing markings is not acceptable.
5. Minimum travel lane widths shall be nine feet (9').
6. Arrows denote direction of traffic only and do not represent pavement markings.
7. The removal and replacement of any temporary striping or raised reflective pavement markers (RPMs) shall be done with the closure of the affected lane.
8. Access to all properties shall be maintained at all times.
9. The Contractor shall make provisions for the removal of storm water from the roadway during construction. Provisions shall be submitted to the engineer for approval before use.
10. The Contractor shall match existing conditions at project beginning and ending as directed by the engineer.

11. The Contractor shall not mill more than can be resurfaced in the same day's/night's operation. The first lift of asphalt shall be placed before roadway is open to traffic following milling.
12. Traffic shall be maintained on paved surfaces at all times.
13. Temporary stop signs for cross streets shall be in line with, or behind, channelizing devices.
14. All costs to maintain traffic shall be included in the lump sum price for maintenance of traffic.
15. All lanes must be open for traffic during a hurricane evacuation notice or other catastrophic event and shall remain open for the duration of the evacuation or event as directed by the project engineer.
16. Any damage to existing roadways shall be repaired by the contractor and restored to prior condition. Damage shall be milled and resurfaced not patched.
17. Contractor shall be responsible for right of way maintenance within the construction area and areas made inaccessible due to construction throughout the term of construction.
18. Contractor shall have an FDOT Certified Temporary Traffic Control Specialist on call twenty-four (24) hours a day and on site during work hours to manage the temporary traffic control.

**M. SEQUENCE OF ROADWAY CONSTRUCTION**

At the beginning of each phase: erect advance warning signs, barricades & channeling devices as required for each phase. Adjust per actual field conditions to ensure visibility of all existing signs which will need to remain during construction

**Phase 1**

Place traffic control devices and work zone signs as shown in the plans.

Construct the temporary sheet pile wall, temporary double pipes and temporary pavement as shown in the Phase 1 plans.

Contractor shall provide design drawings for the temporary sheet pile wall signed and sealed by a registered professional engineer, for County approval.

**Phase 2**

Place traffic control devices and work zone signs as shown in the plans.

Construct the Phase 2 section of the cross drain as shown in the plans.

Back fill and reconstruct curb and gutter, temporary pavement.

**Phase 3**

Place traffic control devices and work zone signs as shown in the plans.

Remove temporary pavement, temporary sheet pile wall, and the temporary pipes.

Construct the Phase 3 section of the cross drain and the remaining proposed construction as shown in the plans.

**END OF SECTION**

**SEALED BID MAILING LABEL**

**BID NO: 19-27**  
**Remington Forest Drive Drainage Improvements.**

**Cut along the outer border and affix this label  
to your sealed bid envelope to identify it as a  
"Sealed BID"**

<b>SEALED BID • DO NOT OPEN</b>	
<b>SEALED BID NO.:</b>	<b>BID NO: 19-27</b>
<b>BID TITLE:</b>	<b>Remington Forest Drive Drainage Improvements</b>
<b>DUE DATE/TIME:</b>	<b>By 2:00PM – January 16, 2019</b>
<b>SUBMITTED BY:</b>	Company Name
	Company Address
	Company Address
<b>DELIVER TO:</b>	St. Johns County Purchasing Dept. ATTN: Diana M. Fye, AS, CPPB Procurement Coordinator 500 San Sebastian View St St. Augustine FL 32084



**END OF DOCUMENT**

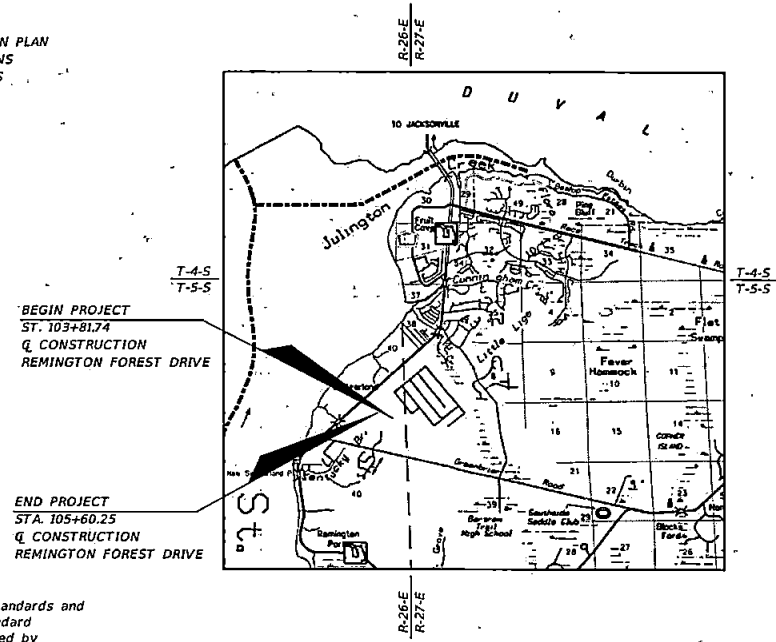
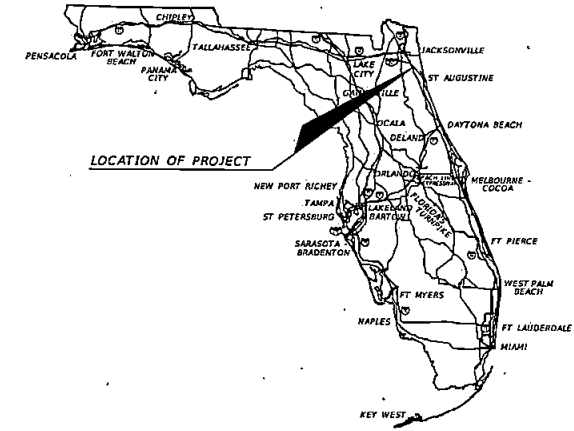
CONTRACT PLANS COMPONENTS  
ROADWAY PLANS

**PROPOSED IMPROVEMENTS TO  
REMINGTON FOREST DRIVE**

CROSS DRAIN IMPROVEMENT  
FOR  
**ST. JOHNS COUNTY**

**INDEX OF ROADWAY PLANS**

SHEET NO.	SHEET DESCRIPTION
1	KEY SHEET
2 - 3	TYPICAL SECTIONS
4	GEOMETRY PLAN
5	GENERAL NOTES
6	DEMOLITION PLAN
7	ROADWAY PLAN
8 - 15	CROSS SECTIONS
16 - 17	STORMWATER POLLUTION PREVENTION PLAN
18 - 19	EROSION & SEDIMENT CONTROL PLANS
20 - 25	TEMPORARY TRAFFIC CONTROL PLANS
26	UTILITY ADJUSTMENTS
27-28	END WALL DETAILS



ROADWAY SHOP DRAWINGS  
TO BE SUBMITTED TO:  
MATTHEW S. MAGGIORE, P.E.  
ENGLAND-THIMS & MILLER, INC.  
14775 Old St. Augustine Road  
Jacksonville, FL 32258  
TEL: (904) 642-8990  
FAX: (904) 646-9485

PLANS PREPARED BY:  
ENGLAND-THIMS & MILLER, INC.  
14775 Old St. Augustine Road  
Jacksonville, FL 32258  
TEL: (904) 642-8990  
CA - 00002584 LC - 0000316

NOTE: THE SCALE OF THESE PLANS MAY  
HAVE CHANGED DUE TO REPRODUCTION.

**ETM**  
ENGLAND-THIMS & MILLER, INC.  
14775 Old St. Augustine Road  
Jacksonville, FL 32258  
TEL: (904) 642-8990  
FAX: (904) 646-9485  
CA - 00002584 LC - 0000316

MATTHEW S. MAGGIORE, P.E. Lic. No. NUMBER 55371

**GOVERNING STANDARDS AND SPECIFICATIONS:**  
Florida Department of Transportation, FY 2017-18 Design Standards and revised Index Drawings as appended herein, and 2018 Standard Specifications for Road and Bridge Construction, as amended by Contract Documents.

For Design Standards click on the "Design Standards" link at the following website: <http://www.fdot.gov/design/standardplans>

For the Standard Specifications for Road and Bridge Construction click on the "Specifications" link at the following web site: <http://www.fdot.gov/specificationsoffice/>

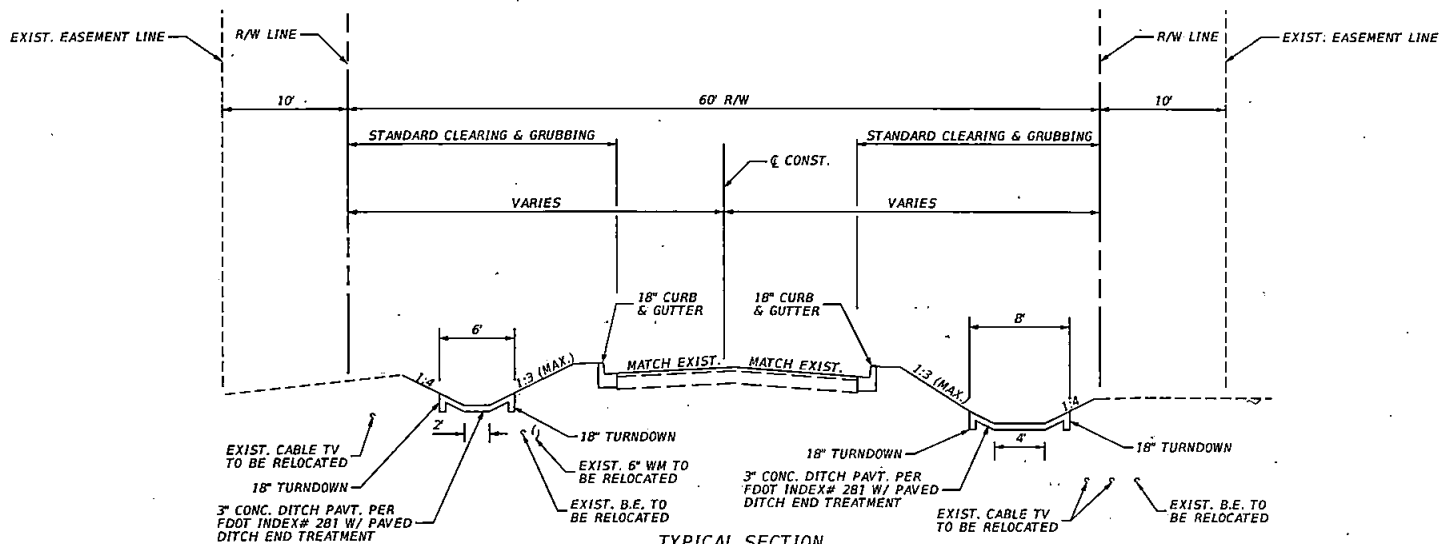
**GOVERNING STANDARD SPECIFICATIONS:**  
Florida Department of Transportation, JAN 2018 Standard Specifications for Road and Bridge Construction at the following website: <http://www.fdot.gov/programmanagement/Implemented/SpecBooks>

LENGTH OF PROJECT		
	LINEAR FEET	MILES
ROADWAY	178.51	0.034
BRIDGES		
NET LENGTH OF PROJECT	178.51	0.034
EXCEPTIONS	----	----
GROSS LENGTH OF PROJECT	178.51	0.034

ST. JOHNS COUNTY PROJECT MANAGER: DOUGLAS TARBOX, P.E.

ROADWAY PLANS  
ENGINEER OF RECORD: MATTHEW S. MAGGIORE, P.E.  
P.E. NO.: 55371

CONSTRUCTION CONTRACT NO.	FISCAL YEAR	SHEET NO.
		1



TYPICAL SECTION  
 REMINGTON FOREST DRIVE  
 STA. 103+81.74 TO STA. 104+56.60  
 AND  
 STA. 104+99.03 TO STA. 105+60.25

MILLING

MILL EXISTING ASPHALT PAVEMENT (1.75')

RESURFACING

ASPHALT PAVEMENT TYPE SP-12.5 STRUCTURE COURSE (1.75')

DESIGN SPEED = 20 MPH

NOTE: ALL DISTURBED AREAS SHALL BE SODED AND RESTORED TO ORIGINAL OR BETTER CONDITION.

REVISIONS		REVISIONS	
DATE	DESCRIPTION	DATE	DESCRIPTION

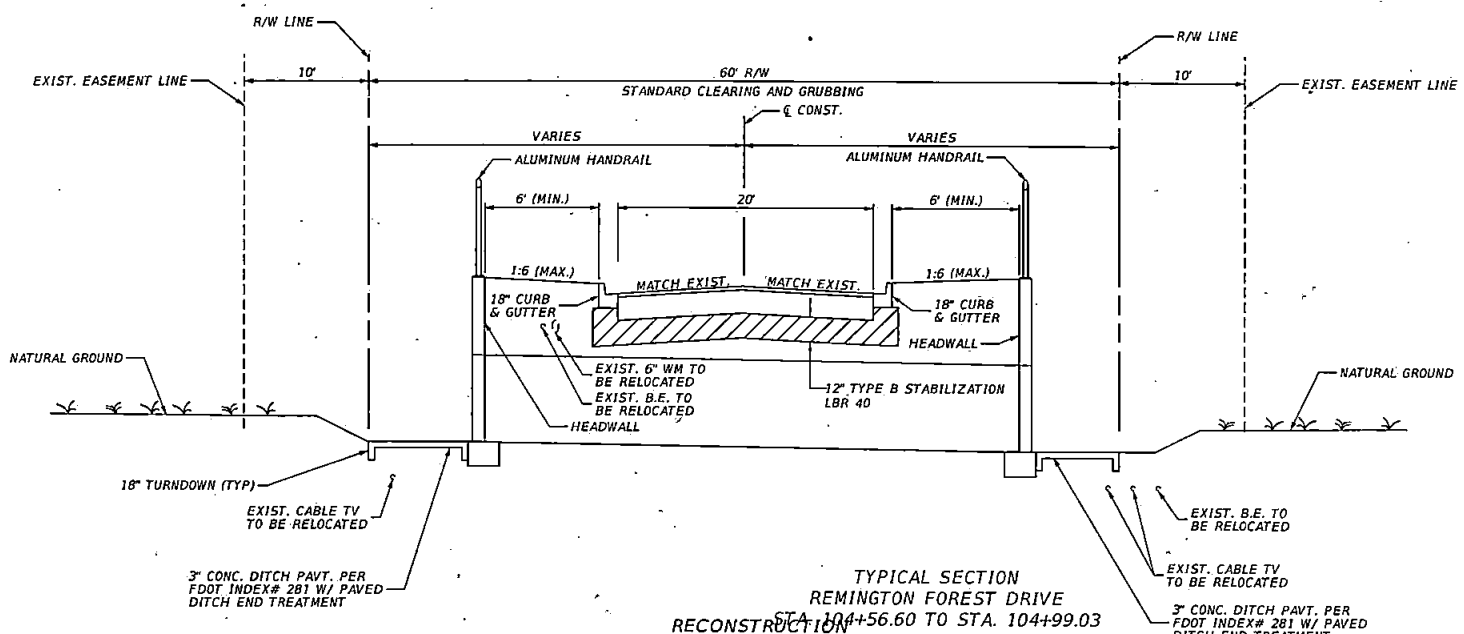
**ETM**  
 ENGINEERING & TRAFFIC MANAGEMENT  
 14732 OAK HILL BOULEVARD ROAD  
 JACKSONVILLE, FL 32218  
 TEL: (904) 644-0900  
 FAX: (904) 644-4443  
 CA - 00021264 LC - 0009310  
 MATTHEW S. MAGGIORE, P.E. LIC. NO. NUMBER 55371



ST. JOHNS COUNTY  
 ENGINEERING DEPARTMENT

REMINGTON FOREST DRIVE  
 TYPICAL SECTION

SHEET NO.  
 2



TYPICAL SECTION  
 REMINGTON FOREST DRIVE  
 RECONSTRUCTION STA. 104+56.60 TO STA. 104+99.03

SUB-BASE MIN. (LBR 40) (MAX. PLASTIC INDEX OF 6)  
 (COMPACTED TO 98% MAX. DENSITY - AASHTO T-180) (12") WITH  
 COMPACTED LIMEROCK BASE (6") (MIN. LBR 75 98% MAX. DENSITY - AASHTO T-180)  
 AND ASPHALTIC CONCRETE TYPE SP-12.5 STRUCTURAL COURSE (1.75")

NOTE: ALL DISTURBED AREAS SHALL BE SODDED AND RESTORED  
 TO ORIGINAL OR BETTER CONDITION.

DESIGN SPEED = 20 MPH

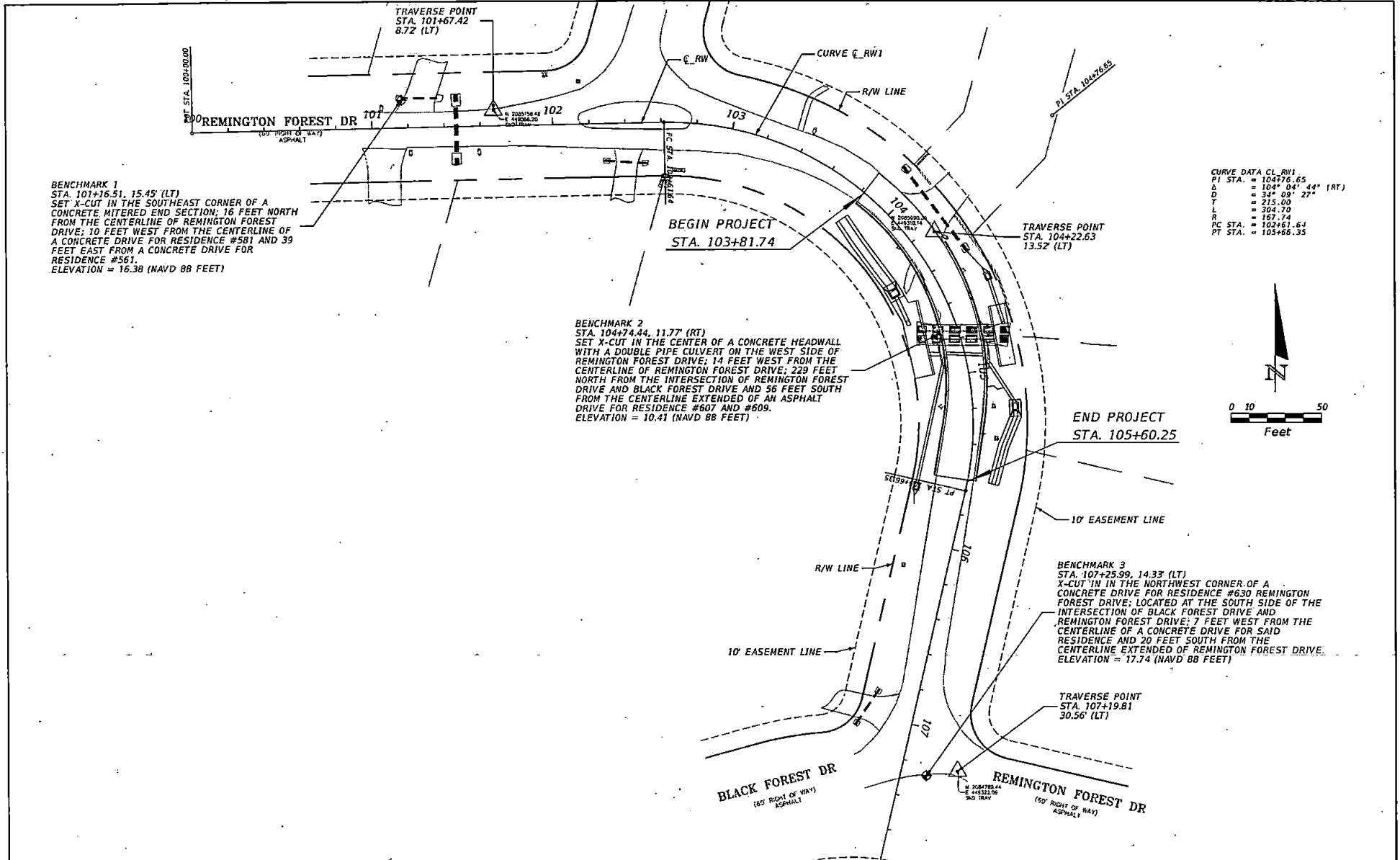
REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

**ETM**  
 ENGINEERING TECHNOLOGISTS MATTHEW S. MAGGIORE, P.E.  
 Lic. No. NUMBER 55371

**ST. JOHNS COUNTY**  
 ENGINEERING DEPARTMENT

**REMINGTON FOREST DRIVE**  
 TYPICAL SECTION

SHEET NO.  
 3



CURVE DATA CL RW1  
 P1 STA. = 104+76.65  
 A = 104° 04' 44" (RT)  
 D = 34' 09" 27"  
 T = 215.00  
 L = 304.70  
 R = 167.74  
 PC STA. = 102+61.64  
 PT STA. = 105+96.35

BENCHMARK 1  
 STA. 101+16.51, 15.45' (LT)  
 SET X-CUT IN THE SOUTHEAST CORNER OF A  
 CONCRETE MITERED END SECTION; 16 FEET NORTH  
 FROM THE CENTERLINE OF REMINGTON FOREST  
 DRIVE; 10 FEET WEST FROM THE CENTERLINE OF  
 A CONCRETE DRIVE FOR RESIDENCE #581 AND 39  
 FEET EAST FROM A CONCRETE DRIVE FOR  
 RESIDENCE #561.  
 ELEVATION = 16.38 (NAVD 88 FEET)

BENCHMARK 2  
 STA. 104+74.44, 11.77' (RT)  
 SET X-CUT IN THE CENTER OF A CONCRETE HEADWALL  
 WITH A DOUBLE PIPE CULVERT ON THE WEST SIDE OF  
 REMINGTON FOREST DRIVE; 14 FEET WEST FROM THE  
 CENTERLINE OF REMINGTON FOREST DRIVE; 229 FEET  
 NORTH FROM THE INTERSECTION OF REMINGTON FOREST  
 DRIVE AND BLACK FOREST DRIVE AND 56 FEET SOUTH  
 FROM THE CENTERLINE EXTENDED OF AN ASPHALT  
 DRIVE FOR RESIDENCE #607 AND #609.  
 ELEVATION = 10.41 (NAVD 88 FEET)

BENCHMARK 3  
 STA. 107+25.99, 14.33' (LT)  
 X-CUT IN THE NORTHWEST CORNER OF A  
 CONCRETE DRIVE FOR RESIDENCE #630 REMINGTON  
 FOREST DRIVE; LOCATED AT THE SOUTH SIDE OF THE  
 INTERSECTION OF BLACK FOREST DRIVE AND  
 REMINGTON FOREST DRIVE; 7 FEET WEST FROM THE  
 CENTERLINE OF A CONCRETE DRIVE FOR SAID  
 RESIDENCE AND 20 FEET SOUTH FROM THE  
 CENTERLINE EXTENDED OF REMINGTON FOREST DRIVE.  
 ELEVATION = 17.74 (NAVD 88 FEET)

REVISIONS	
DATE	DESCRIPTION

**ETM**  
 ENGINEERING TECHNOLOGICAL MATHEMATICS  
 WILSON • ENGINEERING • SURVEYING  
 MATTHEW S. MAGGIORE, P.E. Lic. No. NUMBER 55371



ST. JOHNS COUNTY  
 ENGINEERING DEPARTMENT

REMINGTON FOREST DRIVE  
 GEOMETRY PLAN

SHEET  
 NO.  
 4



**GENERAL NOTES AND CONSTRUCTION REQUIREMENTS:**

- CONTRACTOR SHALL VERIFY LOCATIONS OF EXISTING STRUCTURES, IMPROVEMENTS, UTILITIES (BOTH OVERHEAD AND UNDERGROUND), PROPERTY LINES AND CONFIRM ALL PROPOSED DIMENSIONS AND ELEVATIONS PRIOR TO COMMENCING ANY CONSTRUCTION OR ORDERING ANY MATERIALS.
- EXISTING OVERHEAD ELECTRICAL LINES ARE LOCATED WITHIN PROJECT LIMITS. USE EXTREME CAUTION TO PROTECT MEN, MACHINERY AND UTILITIES.
- CONTRACTOR IS RESPONSIBLE FOR THE CONTROL OF SEDIMENTATION RUNOFF RESULTING FROM STORM EVENTS DURING THE CONSTRUCTION PHASE. EROSION CONTROL FACILITIES SHOULD BE INSTALLED EARLY DURING THE CONSTRUCTION PERIOD SO AS TO PREVENT THE TRANSPORT OF SEDIMENT INTO SURFACE WATERS. RE-VEGETATION AND STABILIZATION OF DISTURBED AREAS SHOULD BE ACCOMPLISHED AS SOON AS POSSIBLE TO REDUCE THE POTENTIAL OF SOIL EROSION. CONTRACTOR IS RESPONSIBLE FOR COMPLIANCE WITH PERMITS ISSUED FOR THE PROJECT INCLUDING ST. JOHNS RIVER WATER MANAGEMENT DISTRICT, DEP WATER, DEP SEWER, NPDES, AND USACE.
- ALL DISTURBED AREAS SHALL BE SODDED, SEEDED AND MULCHED OR LANDSCAPED IN ACCORDANCE WITH THE PLANS. CONTRACTOR IS RESPONSIBLE FOR ESTABLISHING GRASS AND PLANTINGS IN ALL DISTURBED AREAS. ALL SLOPES STEEPER THAN 3:1 SHALL BE STAKED 50D.
- ALL WORK SHALL BE COMPLETED IN A SAFE MANNER. ALL SAFETY RULES AND GUIDELINES OF OSHA SHALL BE FOLLOWED. THE CONTRACTOR SHALL BE WHOLLY RESPONSIBLE FOR ANY INJURIES OF HIS EMPLOYEES AND ANY DAMAGE TO PRIVATE PROPERTY OR PERSONS RESULTING FROM THIS JOB.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR VISITING THE JOB SITE PRIOR TO PREPARING HIS BID FOR THE PURPOSE OF FAMILIARIZING HIMSELF WITH NATURE AND THE EXTENT OF THE WORK AND LOCAL CONDITIONS, EITHER OVERHEAD, SURFACE OR SUBSURFACE, WHICH MAY AFFECT THE WORK TO BE PERFORMED AND THE EQUIPMENT, LABOR AND MATERIAL REQUIRED. FAILURE TO DO SO WILL NOT RELIEVE THE CONTRACTOR OF COMPLETE PERFORMANCE UNDER THIS CONTRACT.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND INSURANCE REQUIRED FOR THE PROJECT. CONTRACTOR IS RESPONSIBLE FOR CONSTRUCTION STAKING AND LAYOUT OF THE PROJECT IN ACCORDANCE WITH THE CONSTRUCTION PLANS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVAL/DISPOSAL OF ANY UNSUITABLE MATERIALS INCLUDING BUT NOT LIMITED TO DEBRIS SUCH AS BROKEN CONCRETE, ROOTS, TREES, MUCK, ETC. FROM HIS OPERATION AND COMPACTING SUITABLE REPLACEMENT BACKFILL MATERIAL.
- ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH ST. JOHNS LDC AND FLORIDA DEPT. OF TRANSPORTATION STANDARDS, DETAILS, AND SPECIFICATIONS UNLESS OTHERWISE NOTED. IN THE CASE OF WATER AND SEWER CONSTRUCTION CONSTRUCTION SHALL BE IN ACCORDANCE WITH LATEST ST. JOHNS COUNTY STANDARDS, AS WELL AS APPLICABLE STATE AND LOCAL CODES. FIRE HYDRANTS SHALL MEET ST. JOHNS COUNTY REQUIREMENTS. THRUST RESTRAINT SHALL BE ACCOMPLISHED USING PIPE RESTRAINING DEVICES. TIE RODS WITH THRUST BLOCKS SHALL NOT BE ALLOWED.
- THE CONTRACTOR SHALL NOTIFY ALL UTILITY COMPANIES PRIOR TO CONSTRUCTION FOR VERIFICATION AND LOCATION OF UTILITIES. PRIOR TO WORKING IN A COUNTY ROW OR EASEMENT, A COUNTY PERMIT IS REQUIRED.

UTILITIES:	UTILITY OWNER	TELEPHONE
ELECTRIC	FPL	(386) 586-6403
FIBER	AT&T	(561) 997-0240
CABLE	COMCAST	(904) 380-6423
WATER & SEWER	JEA	(904) 665-4643

- ALL UNDERGROUND UTILITIES MUST BE INSTALLED PRIOR TO PREPARATION OF SUBGRADE FOR PAVEMENT.
- SHOULD THE SURFACE OR SUBSURFACE CONDITIONS VARY FROM WHAT IS SHOWN ON THESE PLANS, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER.
- TACK COAT IS REQUIRED ON PRIME BASES THAT HAVE BECOME DIRTY OR CANNOT BE CLEANED, OR WHERE THE PRIME COAT HAS CURED AND LOST ALL BONDING EFFECT. TACK COAT SHALL COMPLY WITH FDOT STANDARDS.
- B.M. DATA IS NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD-88).
- GRADES SHOWN ARE FINISHED GRADES.
- EXISTING DRAINAGE STRUCTURES WITHIN THE CONSTRUCTION LIMITS SHALL BE REMOVED UNLESS OTHERWISE NOTED.
- ANY PUBLIC LAND CORNER WITHIN THE LIMITS OF CONSTRUCTION IS TO BE PROTECTED.
- ALL MAIL BOXES SHALL BE MAINTAINED DURING CONSTRUCTION. MAILBOXES DAMAGED DURING CONSTRUCTION SHALL BE REPLACED BY THE CONTRACTOR AT HIS EXPENSE.
- ST. JOHNS COUNTY ENGINEERING INSPECTOR SHALL BE NOTIFIED 24 HOURS PRIOR TO ALL NECESSARY SITE WORK INSPECTIONS AND 5 DAYS PRIOR TO THE FINAL INSPECTION.
- CONTRACTOR SHALL SECURE A STOCKPILE LOCATION. CONTRACTOR SHALL NOT STOCKPILE MATERIALS WITHIN THE ROADWAY RIGHT-OF-WAY.
- ALL BOX CULVERTS AND MAST ARM FOUNDATIONS MUST BE DESIGNED AND BUILT BY THE CONTRACTOR. ALL STRUCTURAL DRAWINGS MUST BE SIGNED AND SEALED BY A P.E. ALL DRAWINGS MUST BE SUBMITTED TO THE ENGINEER FOR REVIEW BEFORE CONSTRUCTION OF STRUCTURAL ITEMS BEGINS.
- ALL POND SLOPES SHALL BE SODDED FROM THE NORMAL WATER LEVEL TO THE LIMITS OF CONSTRUCTION.
- SUPERELEVATION SLOPE RATIOS AND SHOULDER CONSTRUCTION TO COMPLY WITH FDOT INDEX 510.
- CONTRACTOR SHALL CONSTRUCT EMBANKMENT IN THE DRY WHENEVER NORMAL DEWATERING EQUIPMENT AND METHODS CAN ACCOMPLISH THE NEEDED DEWATERING. IN ACCORDANCE WITH FDOT STANDARD SPECIFICATIONS, CONTRACTOR SHALL PROVIDE NORMAL DEWATERING EQUIPMENT INCLUDING, BUT NOT LIMITED TO, SURFACE PUMPS, SUMP PUMPS AND TRENCHING/DIGGING MACHINERY. PROVIDE NORMAL DEWATERING METHODS INCLUDING, BUT NOT LIMITED TO, CONSTRUCTING SHALLOW SURFACE DRAINAGE TRENCHES/DITCHES, USING SAND BLANKETS, SUMPS AND SIPHONS. WHEN NORMAL DEWATERING DOES NOT ADEQUATELY REMOVE THE WATER, THE ENGINEER MAY REQUIRE THE EMBANKMENT MATERIAL TO BE PLACED IN THE WATER OR IN LOW SWAMPY GROUND IN ACCORDANCE WITH FDOT STANDARD SPECIFICATIONS, WHERE DEPOSITING THE MATERIAL IN WATER OR IN LOW SWAMPY GROUND THAT WILL NOT SUPPORT THE WEIGHT OF HAULING EQUIPMENT. CONSTRUCT THE EMBANKMENT BY DUMPING SUCCESSIVE LOADS IN A UNIFORMLY DISTRIBUTED LAYER OF A THICKNESS NOT GREATER THAN NECESSARY TO SUPPORT THE HAULING EQUIPMENT WHILE PLACING SUBSEQUENT LAYERS. ONCE SUFFICIENT MATERIAL HAS BEEN PLACED SO THAT THE HAULING EQUIPMENT CAN BE SUPPORTED, CONSTRUCT THE REMAINING PORTION OF THE EMBANKMENT IN LAYERS IN ACCORDANCE WITH THE APPLICABLE PROVISIONS OF THE FDOT STANDARD SPECIFICATIONS.
- ALL DRIVEWAY TURNOUTS SHALL COMPLY WITH FDOT INDEXES 515 AND 516 AND WITH ST. JOHNS COUNTY LAND DEVELOPMENT CODE (SIC LDC). THE MAXIMUM GRADE CHANGE WITHOUT A VERTICAL CURVE IS THREE PERCENT (3%). SEE THE S.I.C. LDC FIGURE 6.03. THE MINIMUM LENGTH FOR VERTICAL CURVES ON ROADWAY AND DRIVEWAY CONNECTIONS AND TURNOUTS IS TEN FEET (10').

- ALL DRAINAGE PIPES INSTALLED WITHIN ROADWAY RIGHT-OF-WAYS/EASEMENTS (PUBLIC OR PRIVATE) SHALL BE TELEVISED BY A COMPANY OR INDIVIDUAL CERTIFIED TO PERFORM SUCH WORK PER LDC 6.04.07.L.5.9 THIS REQUIREMENT MAY ONLY BE WAIVED ON COMMERCIAL SITES IF THE ENGINEER OF RECORD CERTIFIES BY LETTER THAT THE SITE DOES NOT RECEIVE ANY RUNOFF FROM ST. JOHNS COUNTY RIGHT-OF-WAYS. IF THERE IS ANY CONNECTION OR RELATIONSHIP BETWEEN THE PROJECT SITE AND A COUNTY OWNED OR MAINTAINED DITCH, POND OR STRUCTURE, IT SHALL BE REQUIRED. THIS TELEVISION OF THE DRAINAGE LINE SHALL BE DONE IN COLOR AND SHALL BE OF SUCH QUALITY AS TO VISUALLY IDENTIFY THE PROPER CONSTRUCTION OF ALL JOINTS AND PIPE ALIGNMENT. A VIDEO TAPE SHALL BE PROVIDED TO THE COUNTY UPON COMPLETION. THE TELEVISION OF THE DRAINAGE LINES SHALL BE PERFORMED AFTER THE PLACEMENT OF THE BASE MATERIAL AND PRIOR TO THE FINAL WEARING SURFACE OF THE ROADWAY. THE APPROVAL BY THE COUNTY OF THE TELEVISION SHALL BE REQUIRED PRIOR TO THE PLACEMENT OF THE FINAL WEARING SURFACE OF THE ROADWAY. TELEVISED RECORD SHALL BE REVIEWED AND CERTIFIED BY THE ENGINEER OF RECORD (EOR).
- THE CONTRACTOR SHALL CONTRACT WITH AN INDEPENDENT TESTING LABORATORY TO PERFORM MATERIAL TESTING AND SOIL TESTING IN ACCORDANCE WITH COUNTY REQUIREMENTS.

**DEMOLITION REQUIREMENTS:**

- ALL CONSTRUCTION/DEMOLITION AND DISPOSAL TO BE IN ACCORDANCE WITH APPLICABLE CODES AND ENVIRONMENTAL RULES AND REGULATIONS.

**SIDEWALKS, PAVING:**

- CONCRETE SIDEWALKS SHALL BE MINIMUM 4" THICK, 3000 PSI CONCRETE. CONSTRUCTION JOINTS AT 20 FEET, TOOLED JOINTS AT 5 FEET, TOOLED EDGES, BROOM FINISH. AT HANDICAPPED RAMPS, DETECTABLE SURFACE AND DETAIL REQUIRED PER FDOT INDEX NO. 304.
- CONTRACTOR SHOULD MAKE ALLOWANCE FOR SOD DURING GRADING OPERATIONS. SIDEWALKS SHALL NOT BE LOWER THAN SURROUNDING SODDED AREAS.
- ALL MANHOLES, VALVE BOXES, CLEANOUTS, AND OTHER ACCESS FACILITIES MUST BE AT FINISHED ELEVATIONS IN PAVING, SIDEWALKS AND GRASSED AREAS.
- PAVEMENTS TO BE MARKED AS SHOWN AND IN ACCORDANCE WITH DETAILS REFERENCED. PAVEMENT MARKINGS SHALL BE EXTRUDED THERMOPLASTIC WITH REFLECTIVE MARKERS IN ACCORDANCE WITH FDOT STANDARDS.
- ALL DETECTABLE WARNING SURFACES FOR SIDEWALK AT CURB CUT HANDICAP RAMPS CAN BE A ST. JOHNS COUNTY APPROVED RIGID YELLOW COLORED COMPOSITE MATERIAL ANCHORED IN THE CONCRETE SIDEWALK RAMP. ANCHORED COMPOSITE WARNING AREA INSERTS ARE TO BE COLORED "SAFETY YELLOW", AND SET INTO THE CONCRETE FLUSH WITH THE CONCRETE SURFACE ALONG ALL FOUR SIDES. DESIGN DIMENSIONS OF DETECTABLE WARNING AREA SHALL CONFORM TO FLORIDA DEPARTMENT OF TRANSPORTATION (FDOT) STANDARD INDEX 304, SHEETS 1 THROUGH 7, AND 28 CODE OF FEDERAL REGULATIONS (CFR) PART 36, APPENDIX A LATEST REVISION AS WELL AS APPLICABLE COUNTY REQUIREMENTS. LDC SECTION 6.04.02.C.
- THE DETECTABLE WARNING SURFACE CAN BE CAST IN PLACE AND HAVE A STANDARD COLOR OF YELLOW. ANY TYPE OF ADHESIVE OR GLUE DOWN MATS, STAMPED CONCRETE OR ANY VARIATION OTHER THAN WHAT IS SPECIFIED BELOW WILL NOT BE ACCEPTED BY ST. JOHNS COUNTY.

**ACCEPTABLE PRODUCTS:**

CAST IN PLACE COMPOSITE TACTILE BY ADA SOLUTIONS, INC.  
6789 PHILLIPS INDUSTRIAL BLVD.  
JACKSONVILLE, FL 32256  
904-268-7511, 800-729-3849 (TOLL FREE), 904-268-3133 (FAX)

ARMORCAST PRODUCTS COMPANY  
13230 SATICUY STREET  
NORTH HOLLYWOOD, CA 91605  
818-982-7742, 818-982-3600 (FAX)

DETECTABLE WARNING SYSTEMS  
8081 PHILLIPS HIGHWAY # 22  
JACKSONVILLE, FL 32256  
WWW.DETECTABLE-WARNING.COM  
856-999-7452

**DRAINAGE:**

- DRAINAGE PIPE 15" AND GREATER SHALL BE METAL REINFORCED CONCRETE PIPE, WALL B. CONCRETE PIPE TO HAVE ALL JOINTS WRAPPED WITH FILTER FABRIC IN ACCORDANCE WITH FDOT STANDARD INDEX NO. 280, UNLESS OTHERWISE APPROVED BY THE COUNTY, THE ENGINEER AND THE OWNER.
- UPON COMPLETION OF ALL CONSTRUCTION AND AFTER ALL LANDSCAPING, PLANTING, AND ALL SITE WORK IS COMPLETED, THE PROJECT SITE SHALL BE LEFT CLEAN. UPON COMPLETION THE PONDS SHALL BE PUMPED DOWN IF REQUIRED BY THE COUNTY AND ALL STORM DRAIN LINES WILL BE LAMPED TO CHECK PIPE AND INLETS IN THE PRESENCE OF THE ENGINEER. DIRTY LINES AS DETERMINED BY THE ENGINEER SHALL BE CLEANED AS REQUIRED.

**"AS-BUILT" DRAWING REQUIREMENTS:**

- "AS-BUILT" DRAWINGS WILL BE REQUIRED FROM THE CONTRACTOR. ALL DIMENSIONS MUST BE PARALLEL TO OR PERPENDICULAR TO PROPERTY LINES, BUILDINGS, OR OTHER PERMANENT STRUCTURES. AFTER REVIEWS AND APPROVAL BY THE ENGINEER, FINAL "AS-BUILT" DRAWINGS SHALL BE PROVIDED ON REPRODUCIBLE NYLAR, TWO FINAL COPIES. AS-BUILT DRAWING SHALL ALSO BE PROVIDED IN AUTOCAD FORMAT VERSION 12 OR LATER. AS-BUILT DRAWINGS SHALL BE CERTIFIED BY A FLORIDA REGISTERED LAND SURVEYOR.
- PROVIDE THE FOLLOWING "AS-BUILT" INFORMATION:

**DRAINAGE SYSTEMS:**

LOCATE ALL DRAINAGE STRUCTURES IN TWO DIRECTIONS; INDICATE ELEVATION OF TOP GRATE, THROAT WEIR, ORIFICE, AND PIPE INVERTS FOR ALL STRUCTURES; INDICATE PIPE SIZES AND TYPE, SIZE OF THROATS, WEIRS, ORIFICES; AND OTHER SPECIAL STRUCTURE FEATURES. LOCATE CLEANOUTS WITH TOP AND INVERT ELEVATIONS. OBTAIN SUFFICIENT ELEVATIONS ON PAVEMENT, CURB AND GUTTER, GRASS AREAS, AND SIDEWALKS TO SHOW POSITIVE DRAINAGE IN CONFORMANCE WITH PLANS.

**STORM WATER LAKES:**

LAKES SHALL BE CROSS SECTIONED A MINIMUM OF 50 FOOT INTERVALS WITH SUFFICIENT INFORMATION INDICATED TO SHOW COMPLIANCE WITH REQUIREMENTS OF ST. JOHNS COUNTY AND ST. JOHNS RIVER WATER MANAGEMENT DISTRICT.

- "AS-BUILT" DRAWINGS SHALL ALSO COMPLY WITH ANY ADDITIONAL REQUIREMENTS SET BY THE JEA.
- SUBMITTAL OF AS-BUILT SITE SURVEY, INCLUDING BENCHMARKS, IS REQUIRED IN COMPLIANCE WITH SECTION 6.04.00 OF THE ST. JOHNS COUNTY LAND DEVELOPMENT REVIEW MANUAL PRIOR TO SCHEDULING A FINAL INSPECTION BY THE ENGINEERING DEPARTMENT AND FIRE MARSHALL.

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION



Engineering, Planning, & Construction  
10750 Corporate Blvd.  
Jacksonville, FL 32256  
TEL: (904) 642-2000  
FAX: (904) 642-4145  
CA - 0000264 LC-0000016

MATTHEW S. MAGGIORE, P.E.

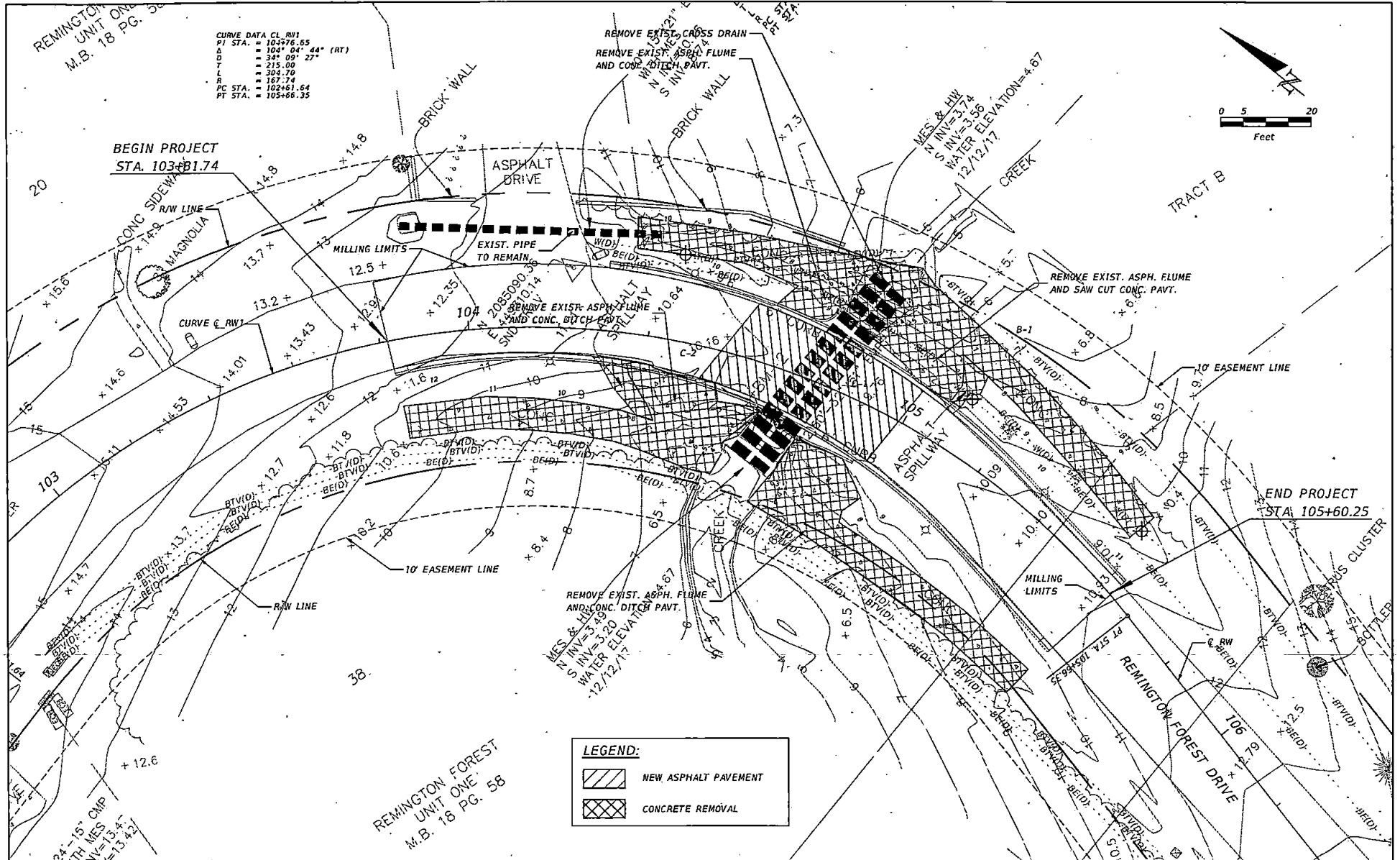
Lic. No. NUMBER 55371



ST. JOHNS COUNTY  
ENGINEERING DEPARTMENT

REMINGTON FOREST DRIVE  
GENERAL NOTES



SHEET NO.  
5



CURVE DATA CL RWT  
 P1 STA. = 104+76.65  
 A = 104° 04' 44" (RT)  
 D = 34° 09' 27"  
 T = 215.00  
 L = 304.70  
 R = 167.74  
 PC STA. = 102+61.64  
 PT STA. = 105+06.35

BEGIN PROJECT  
 STA. 103+00.00

END PROJECT  
 STA. 105+60.25

**LEGEND:**  
 NEW ASPHALT PAVEMENT  
 CONCRETE REMOVAL

REVISIONS	
DATE	DESCRIPTION

**ETM**  
 Vision - Experience - Results  
 MATTHEW S. MAGGIORE, P.E.  
 Lic. No. NUMBER 55371



ST. JOHNS COUNTY  
 ENGINEERING DEPARTMENT

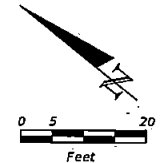
REMINGTON FOREST DRIVE  
 DEMOLITION SHEET

SHEET  
 NO.  
 6

REMINGTON FOREST DRIVE  
 UNIT ONE  
 M.B. 18 PG. 50

CURVE DATA CL RW1  
 PI STA. = 104+76.65  
 Δ = 104° 04' 44" (RT)  
 D = 34' 09" 27"  
 T = 215.00  
 L = 304.70  
 R = 167.74  
 PC STA. = 102+61.64  
 PT STA. = 105+66.35

CONST. DBL 42" RCP CROSS DRAIN  
 INV. 3.6 (E)  
 INV. 3.2 (W)  
 PLACE FLOWABLE FILL BETWEEN PIPES PER FDOT SPECS TO TOP OF PIPES



BEGIN PROJECT  
 STA. 103+81.74

END PROJECT  
 STA. 105+60.25

STR. NO.	STR. TYPE	STA.	OFFSET	TOP/EOP EL.	INVERT EL.	SLOT
EA-1	M.E.S (EXIST.)	104+40.00	22.75' (LT)	11.24	8.74(N)	-
S-1	D.B.I (TYPE C)	104+55.00	26.41' (LT)	8.49	3.70(S)	7.91
S-1A	M.E.S	104+79.41	25.18' (LT)	-	3.65(S)	-
S-2 *	D.B.I (TYPE D)	104+40.00	23.94' (RT)	7.21	3.30(S)	6.63
S-3	M.E.S	104+62.00	24.45' (RT)	-	3.20(N)	-
S-4 *	D.B.I (TYPE C)	105+20.00	23.53' (LT)	7.17	4.67(N)	5.59
S-5	STD. CURB INLET	104+91.74	9.65' (LT)	9.48	4.55(S&W)	-
S-6	STD. CURB INLET	104+86.59	9.90' (RT)	9.51	4.50(E)/4.02(W)/6.80(S)	-
S-7	D.B.I (TYPE C)	105+70.00	27.01' (RT)	9.56	7.00(N)	8.98

\* S-2 AND S-4 SHALL HAVE TRAVERSABLE SLOTS PER FOOT INDEX 232 AND AN 18" SUMP.

**LEGEND:**

- CONCRETE DITCH PAVEMENT
- NEW ASPHALT PAVEMENT

REVISIONS

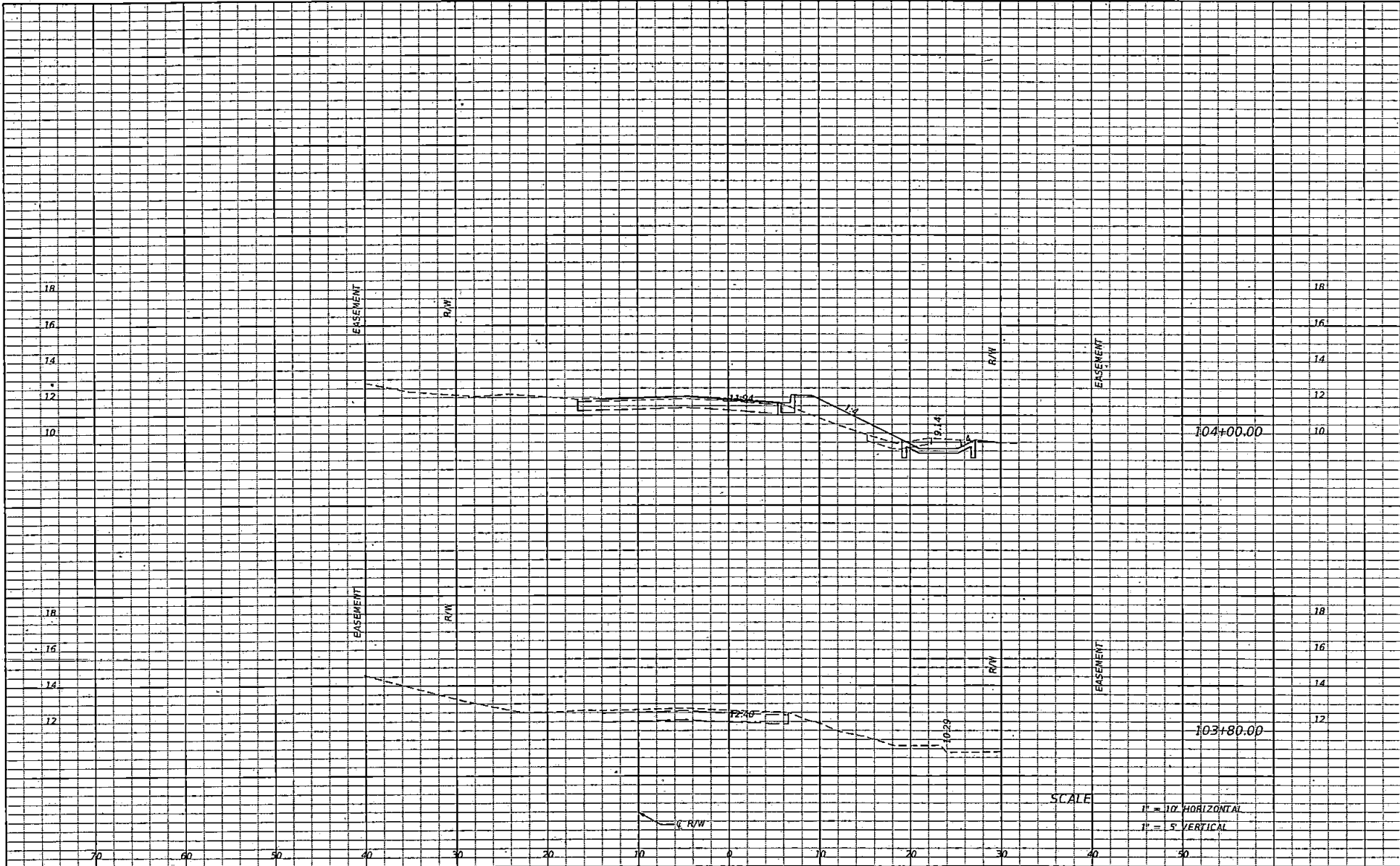
DATE	DESCRIPTION	DATE	DESCRIPTION

**ETM**  
 ENGINEERING TECHNOLOGICAL MATHEMATICS  
 MATTHEW S. MAGGIORE, P.E.  
 Lic. No. NUMBER 55371

**ST. JOHNS COUNTY**  
 ENGINEERING DEPARTMENT

**REMINGTON FOREST DRIVE**  
**PLAN SHEET**

SHEET NO.  
 7



SCALE  
 1" = 10' HORIZONTAL  
 1" = 5' VERTICAL

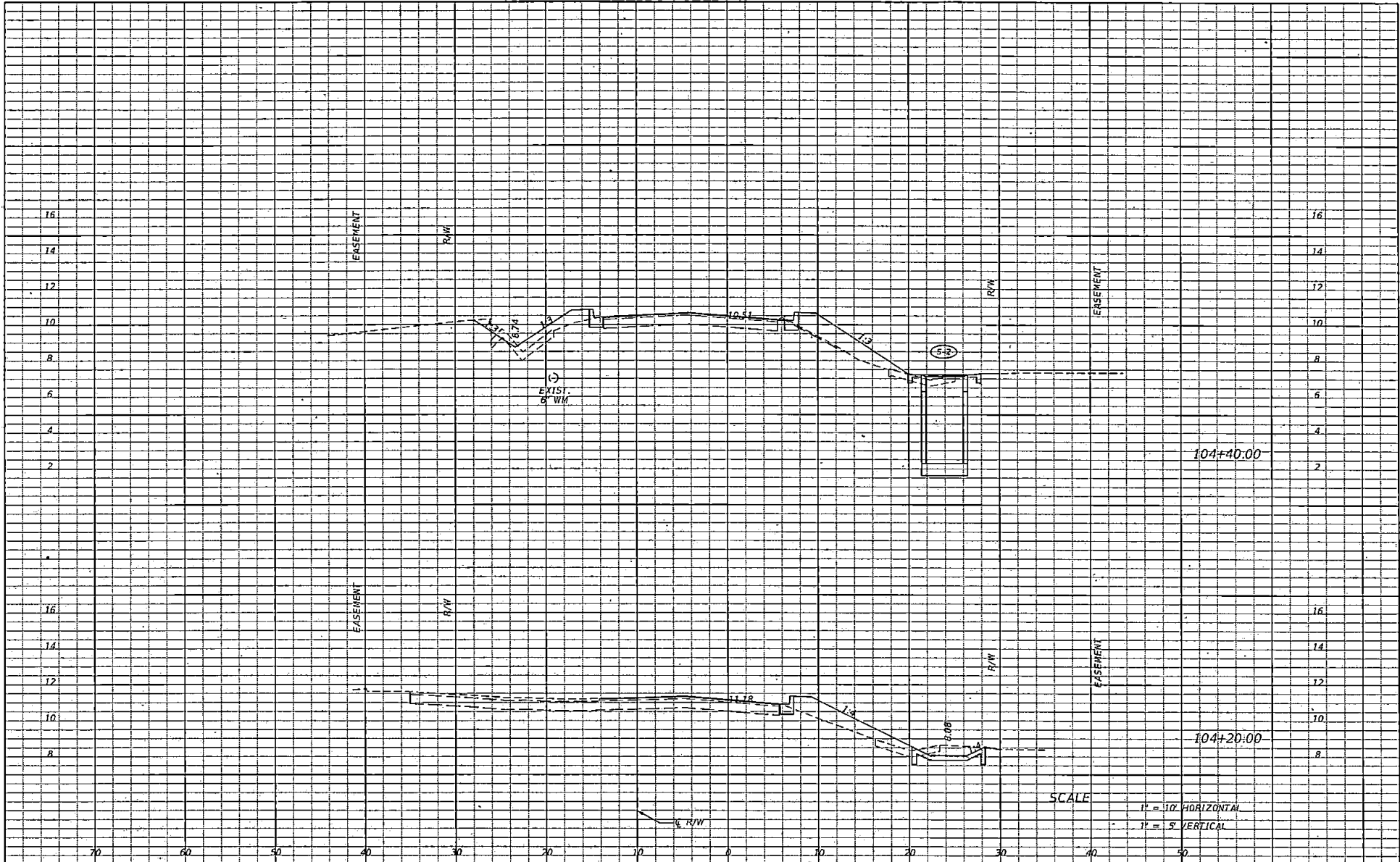
		REVISIONS	
DATE	DESCRIPTION	DATE	DESCRIPTION

**ETM**  
 ENGINEERING - DESIGN - SURVEYING  
 MATTHEW S. MAGGIORE, P.E.  
 Lic. No. NUMBER 55371

**ST. JOHNS COUNTY**  
 ENGINEERING DEPARTMENT

**REMINGTON FOREST DRIVE**  
**CROSS SECTIONS**

SHEET NO.  
 8



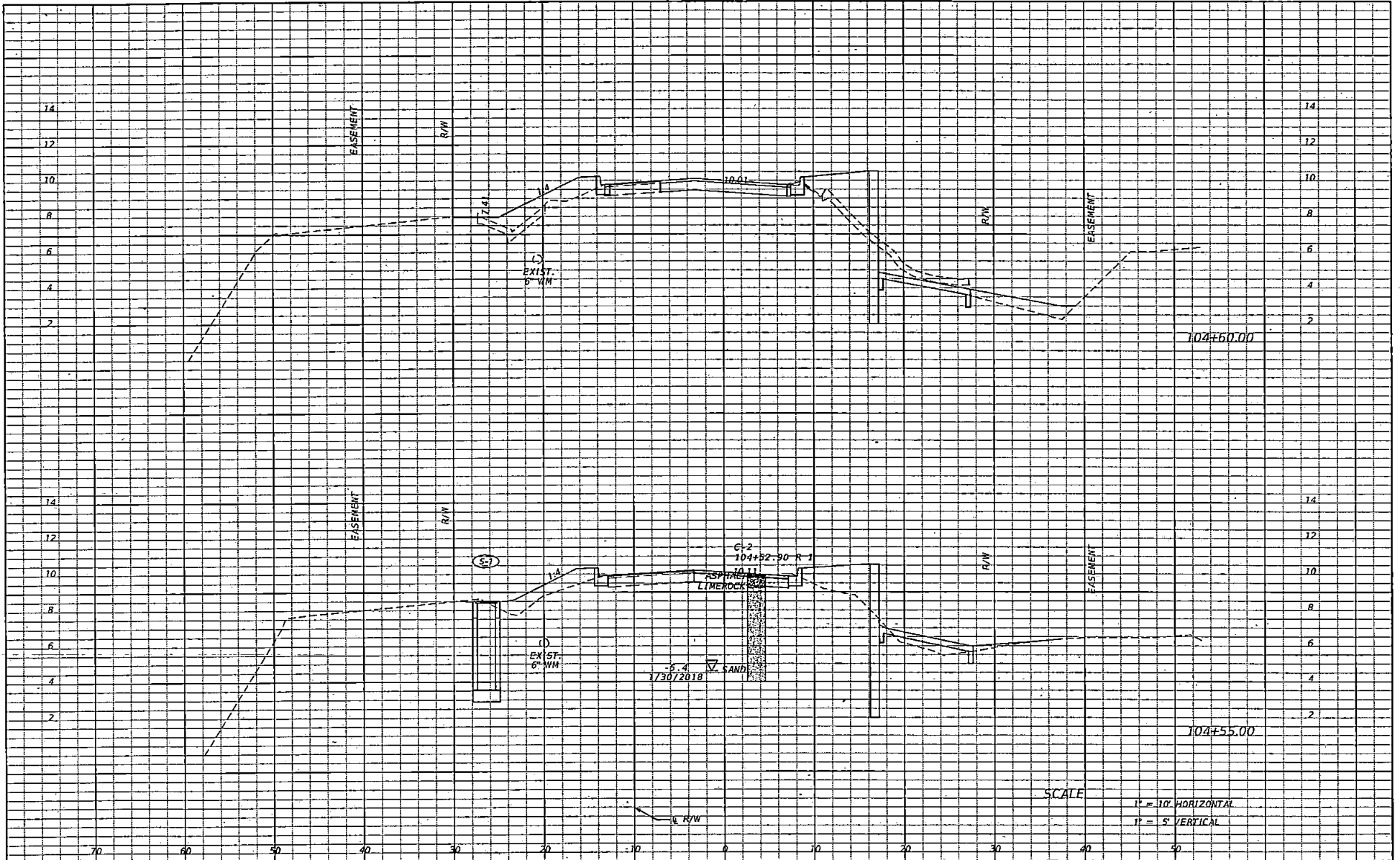
REVISIONS	
DATE	DESCRIPTION

**ETM**  
 ENGINEERING & TRANSPORTATION  
 CONSULTANTS  
 MATTHEW S. MAGGIORE, P.E.  
 Lic. No. NUMBER 55371

**ST. JOHNS COUNTY**  
 ENGINEERING DEPARTMENT

**REMINGTON FOREST DRIVE**  
**CROSS SECTIONS**

SHEET NO.  
 9



SCALE  
 1" = 10' HORIZONTAL  
 1" = 5' VERTICAL

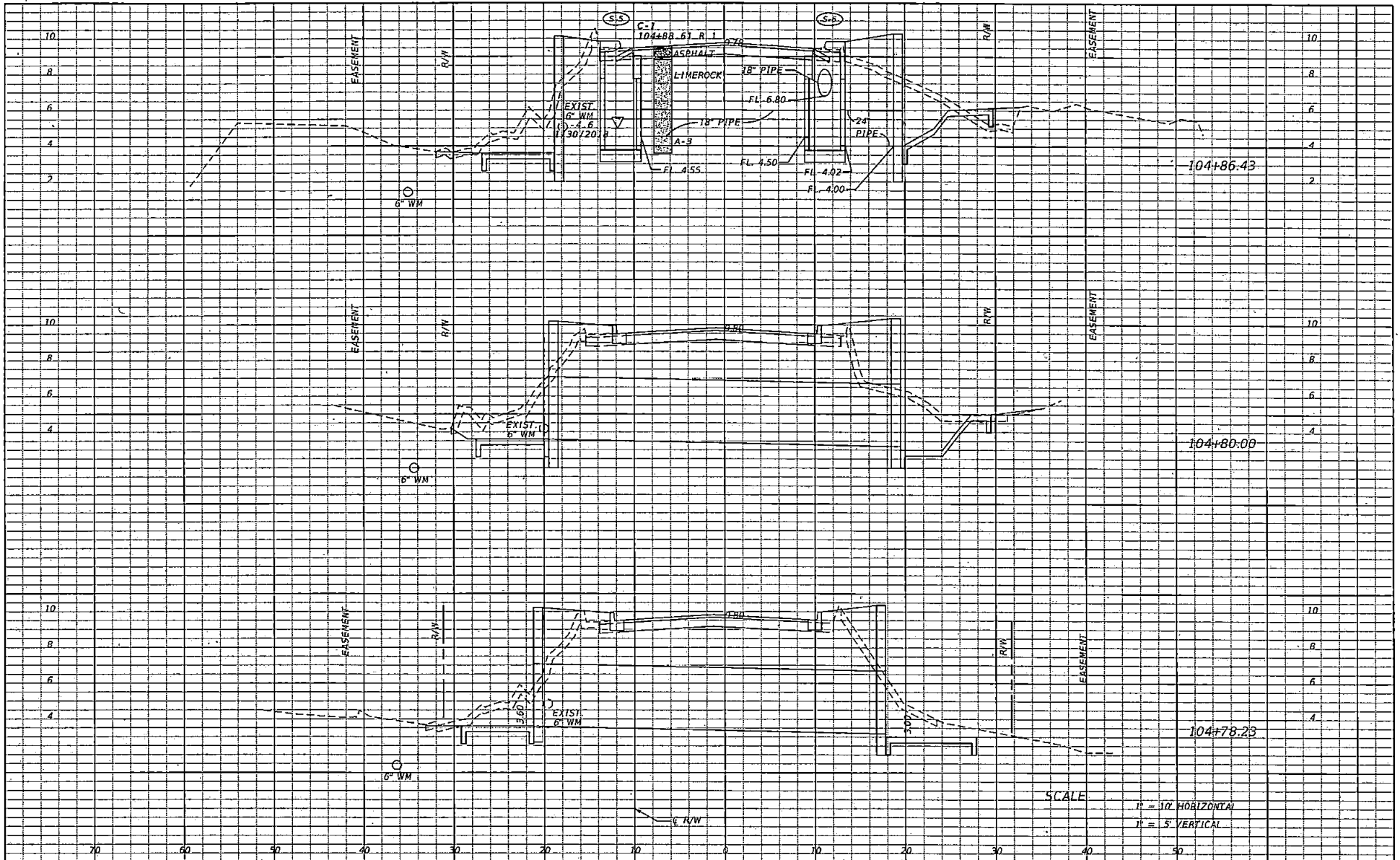
REVISIONS	
DATE	DESCRIPTION

**ETM**  
 ENGINEERING TECHNOLOGISTS  
 MATTHEW S. MAGGIORE, P.E. Lic. No. NUMBER 5331

**ST. JOHNS COUNTY**  
 ENGINEERING DEPARTMENT

**REMINGTON FOREST DRIVE**  
**CROSS SECTIONS**

SHEET NO.  
 10



SCALE  
 1" = 10' HORIZONTAL  
 1" = 5' VERTICAL

REVISIONS	
DATE	DESCRIPTION

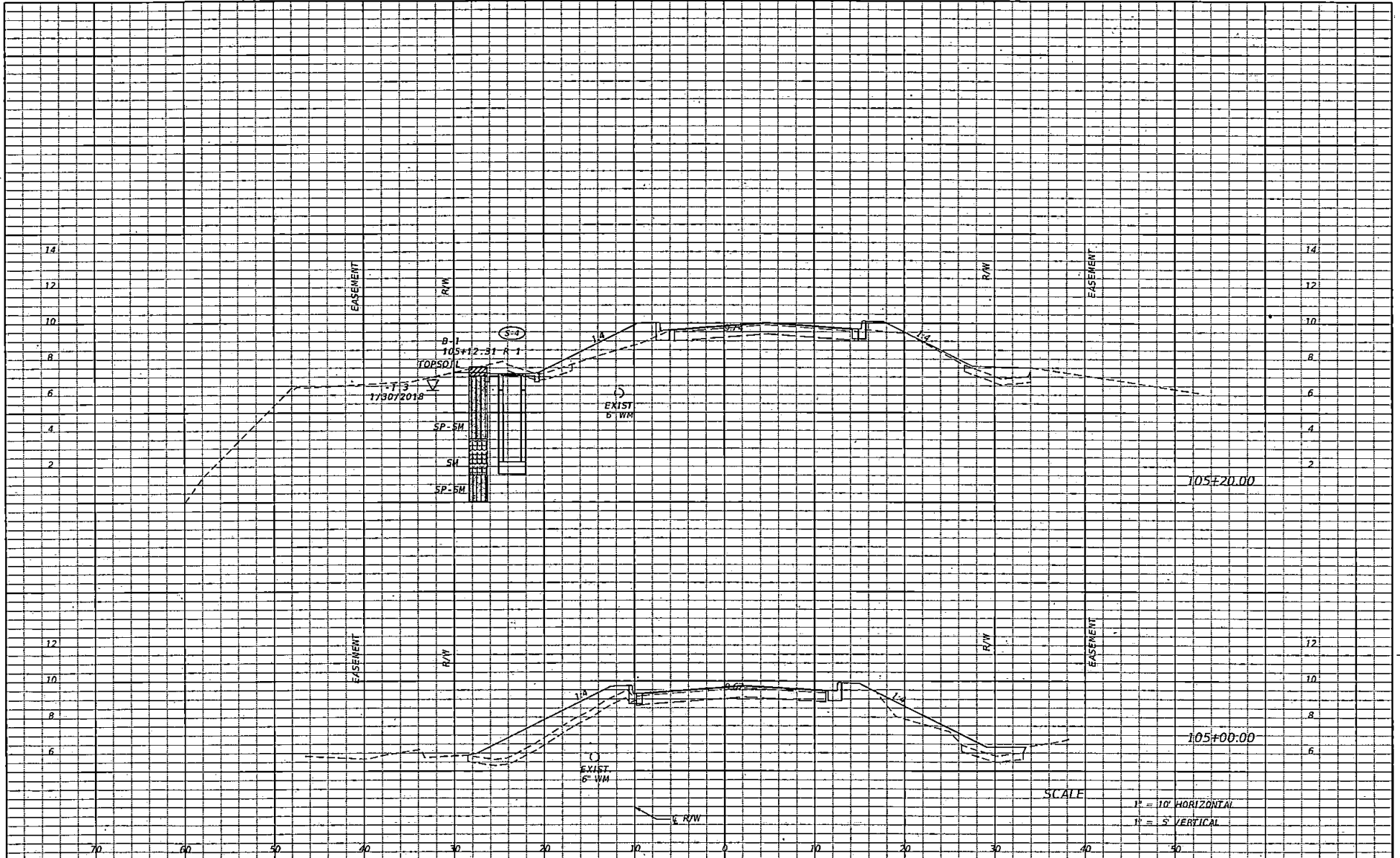
**ETM**  
 ENGINEERING TECHNOLOGISTS  
 MATTHEW S. MAGGIORE, P.E.  
 Lic. No. NUMBER 55371

**ST. JOHNS COUNTY**  
 ENGINEERING DEPARTMENT

**REMINGTON FOREST DRIVE**  
**CROSS SECTIONS**

SHEET NO.  
 11






REVISIONS	
DATE	DESCRIPTION

**ETM**  
 ENGINEERING TECHNOLOGISTS & DESIGNERS  
 14710 N.W. 14th Street, Suite 100  
 Jacksonville, FL 32226  
 TEL: (904) 848-0800  
 FAX: (904) 848-0485  
 CA - 9002264 LC - 0000014

MATTHEW S. MAGGIORE, P.E.      Lic. No. HUNGER 55371

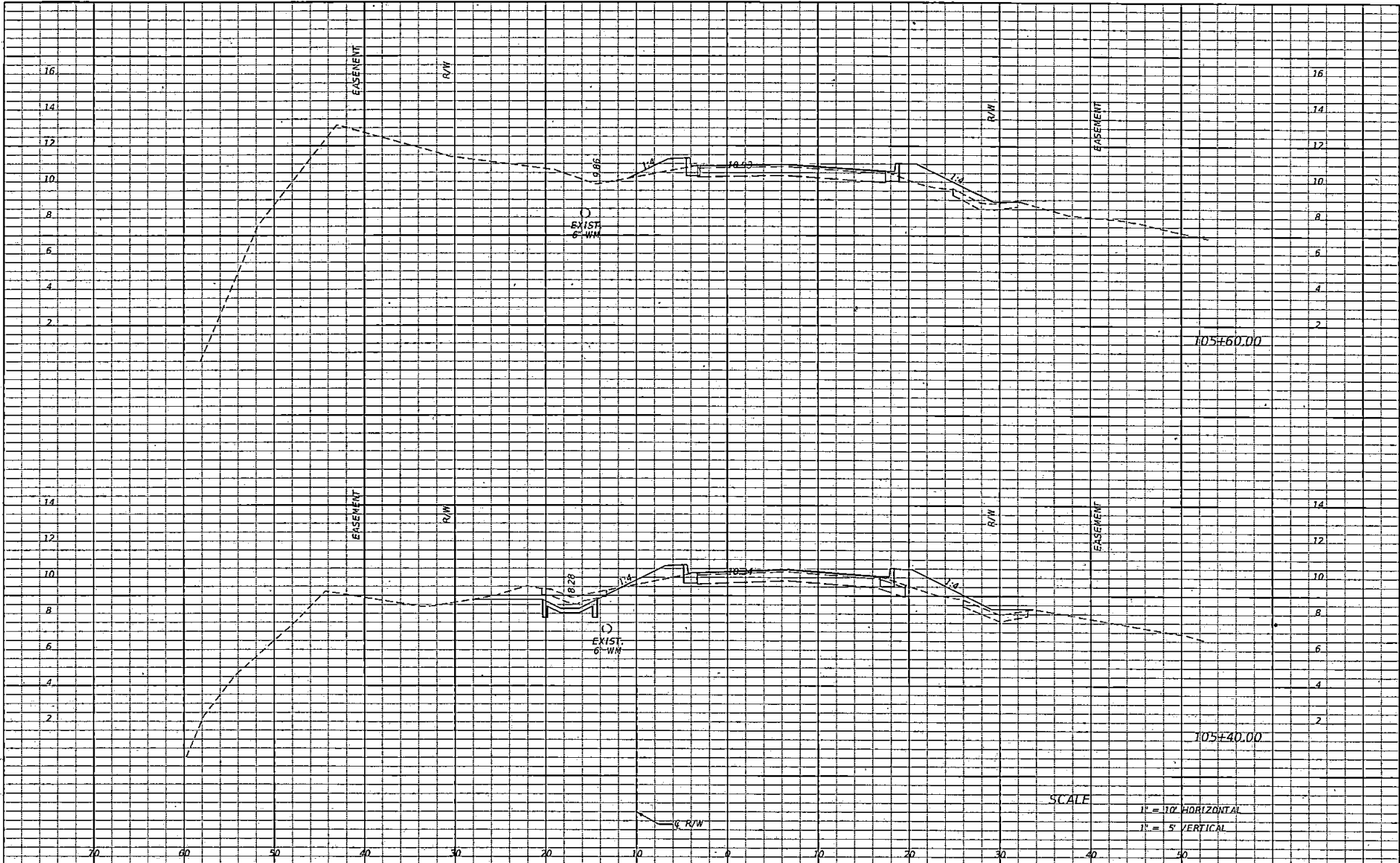


ST. JOHNS COUNTY  
 ENGINEERING DEPARTMENT

REMINGTON FOREST DRIVE  
 CROSS SECTIONS

SHEET NO.  
 12





SCALE  
 1" = 10' HORIZONTAL  
 1" = 5' VERTICAL

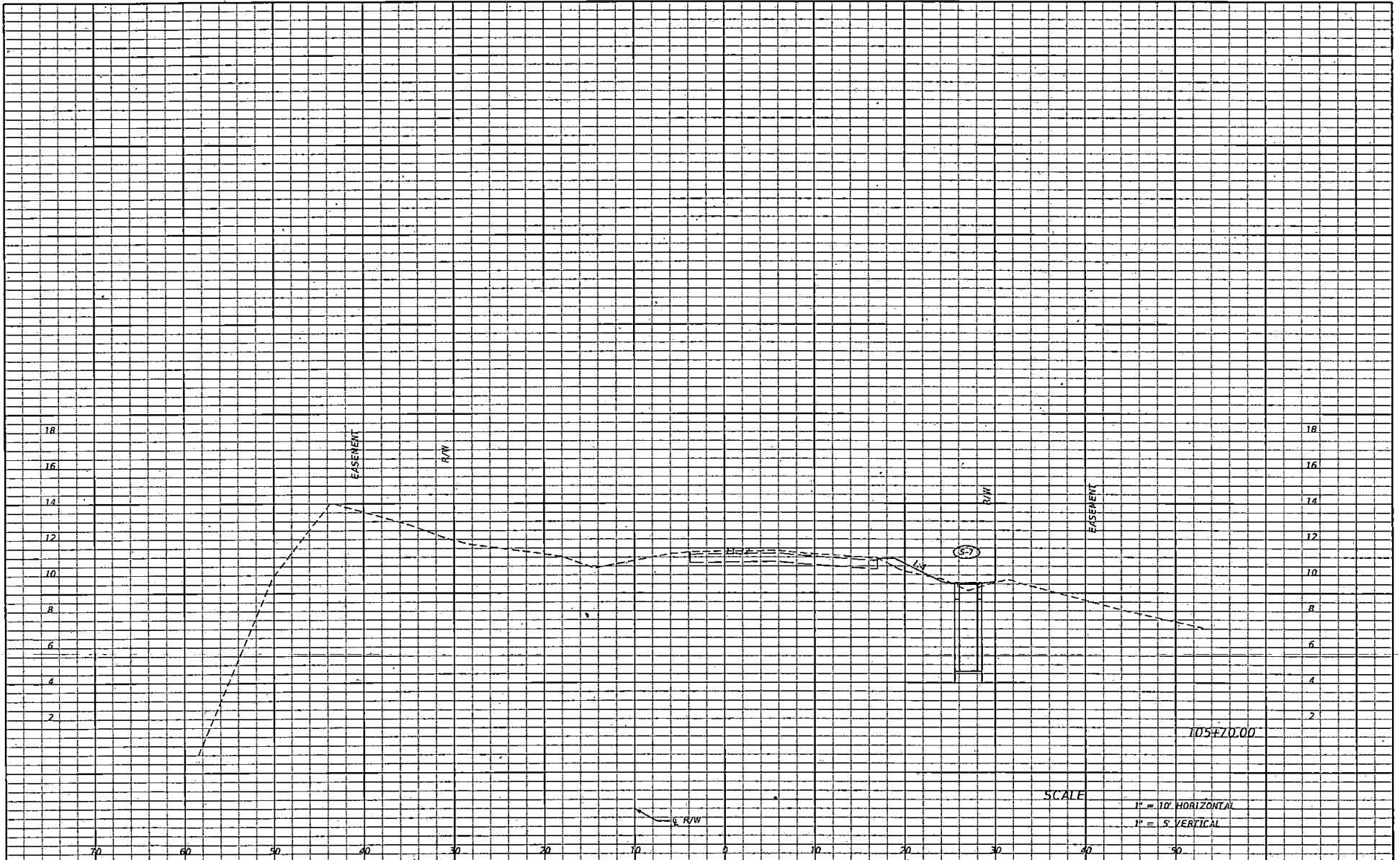
REVISIONS	
DATE	DESCRIPTION

**ETM**  
 VISION • EXPERIENCE • RESULTS  
 MATTHEW S. MAGGIORE, P.E.  
 Lic. No. NUMBER 55371

**ST. JOHNS COUNTY**  
 ENGINEERING DEPARTMENT

**REMINGTON FOREST DRIVE**  
**CROSS SECTIONS**

SHEET NO.  
 13



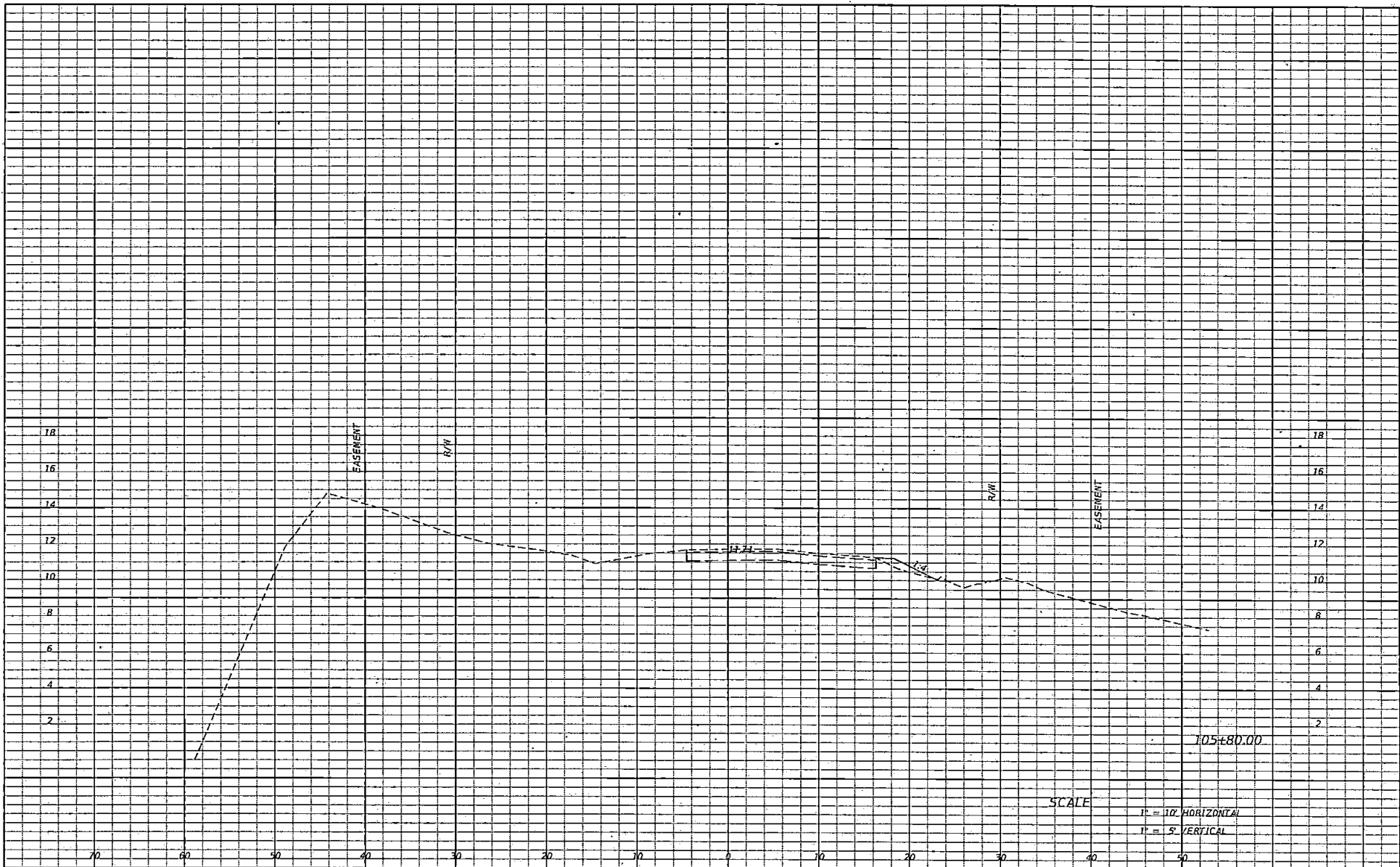
REVISIONS	
DATE	DESCRIPTION

**ETM**  
 VISION • EXPERIENCE • RESULTS  
 Matthew S. Maggione, P.E.  
 Lic. No. NUMBER 55371

**ST. JOHNS COUNTY**  
 ENGINEERING DEPARTMENT

**REMINGTON FOREST DRIVE**  
 CROSS SECTIONS

SHEET NO.
14



REVISIONS	
DATE	DESCRIPTION

**ETM**  
 ENGINEERING TECHNOLOGISTS  
 MATTHEW S. MAGGIORE, P.E. Lic. No. NUMBER 55371

**ST. JOHNS COUNTY**  
 ENGINEERING DEPARTMENT

**REMINGTON FOREST DRIVE**  
**CROSS SECTIONS**

SHEET NO.  
 15

# STORM WATER POLLUTION PREVENTION PLAN

OWNER'S REQUIREMENTS	CONTRACTOR'S REQUIREMENTS	CONTRACTOR'S REQUIREMENTS	CONTRACTOR'S REQUIREMENTS	
<p><b>OWNER'S REQUIREMENTS</b></p> <p><b>SITE DESCRIPTION</b></p> <p>PROJECT NAME AND LOCATION: <b>REINFORCING FOREST DRIVE ST. JOHNS COUNTY, FLORIDA</b></p> <p>APPLICANT NAME AND ADDRESS: <b>ST. JOHNS COUNTY STAFF DEVELOPMENT CENTER ROAD ST. AUGUSTINE, FL 32084</b></p> <p><b>DESCRIPTION:</b></p> <p>THIS PROJECT WILL CONSIST OF THE CONSTRUCTION OF APPROXIMATELY 120 LF OF 24-INCH DIAMETER TRENCH AND THE CONSTRUCTION OF TWO 42" PIPE CROSSOVERS.</p> <p><b>SOILS:</b></p> <p>SEE ATTACHED SHEET FOR LOCATION OF TEMPORARY STABILIZATION PRACTICES AND TURBIDITY BARRIERS</p> <p><b>SITE AREA:</b></p> <p>1. TOTAL AREA OF SITE - 2.0 ACRES 2. TOTAL AREA TO BE DISTURBED - 2.0 ACRES</p> <p><b>CONTROL:</b></p> <p>THIS PLAN UTILIZES BEST MANAGEMENT PRACTICES TO CONTROL EROSION AND TURBIDITY CAUSED BY STORM WATER RUN OFF. DRAINAGE BOSS 30-78 HAVE BEEN PREPARED TO INSTRUCT THE CONTRACTOR ON PLACEMENT OF THESE CONTROLS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO INSTALL AND MAINTAIN THE CONTROLS AS PER PLAN AS WELL AS ENSURING THE PLAN IS PROVIDED THE PROPER PROTECTION AS REQUIRED BY FEDERAL, STATE AND LOCAL LAWS. REFER TO CONTRACTOR'S RESPONSIBILITY FOR A VERBAL DESCRIPTION OF THE CONTROLS THAT ARE IMPLEMENTED.</p> <p><b>STORM WATER MANAGEMENT</b></p> <p>STORM WATER DRAINAGE WILL BE PROVIDED BY DRAINAGE SWALES. STORM SEWER, CURB INLETS AND CATCH BASINS FOR THE DEVELOPED AREAS UNLESS THEY ARE NOT DEVELOPED WILL BE REQUIRED. STORM SEWER SHALL BE INSTALLED IMMEDIATELY AFTER GRADING IS COMPLETE. WHEN CONSTRUCTION IS COMPLETE, A TOTAL OF 20 ACRES WILL HAVE BEEN REGRADED. 20 ACRES LEFT UNDISTURBED WITH A TOTAL OF 20 ACRES OF NET RETENTION THE DRAINAGE AREA FOR THE RETENTION SYSTEM IS 20 ACRES. WHERE PRACTICAL, THE TEMPORARY SEDIMENT BASIN WILL BE IN THE LOCATION OF THE PERMANENT RETENTION BASIN. WHEN UP SLOPE AREAS ARE STABILIZED, THE ACCUMULATED SEDIMENT WILL BE REMOVED FROM SEDIMENT BASIN, AND THE AREAS ON THE SIDE OF THE BASIN WILL BE PLANTED WITH VEGETATION. THE NET DETENTION SYSTEM IS DESIGNED WITH A 31 DAY MINIMUM RESIDENCE VOLUME OF 80 ACRE-FEET. THIS IS IN ACCORDANCE WITH THE REQUIREMENTS SET FORTH IN THE ST. JOHNS RIVER WATER MANAGEMENT DISTRICT FOR THIS TYPE OF DEVELOPMENT AT THE TIME OF PERMITTING.</p> <p>REFER TO "CONTRACTOR'S RESPONSIBILITY" FOR THE TIMING OF CONTROL MEASURES</p> <p>IDENTIFICATION OF COMPLIANCE WITH FEDERAL, STATE AND LOCAL REGULATIONS</p> <p>IN AN EFFORT TO ENSURE COMPLIANCE WITH FEDERAL, STATE AND LOCAL LAWS REGARDING EROSION AND TURBIDITY CONTROLS, THE FOLLOWING PERMITS HAVE BEEN OBTAINED:</p> <p>C.S. CONCEPT/PERMIT _____ S.W.A. DISTRICT/PERMIT _____ S.W.A. DISTRICT/PERMIT _____</p> <p>I CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT QUALIFIED PERSONNEL PROPERLY GATHERED AND EVALUATED THE INFORMATION SUBMITTED, BASED ON MY INSPECTION OF THE PERSON OR PERSONS WHO MANAGE THE SYSTEM, ON THOSE PERSONS DIRECTLY RESPONSIBLE FOR GATHERING THE INFORMATION SUBMITTED IS, TO THE BEST OF MY KNOWLEDGE AND BELIEF, TRUE, ACCURATE, AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS.</p> <p>SIGNED: _____</p> <p>TITLE: <b>CORPORATE OFFICER, GENERAL PARTNER, PROPRIETOR, EXECUTIVE OFFICER, OR BANKING RELATED OFFICIAL</b></p> <p>DATE: _____</p>	<p><b>GENERAL</b></p> <p>THE CONTRACTOR SHALL AT A MINIMUM IMPLEMENT THE CONTRACTOR'S REQUIREMENTS OUTLINED BELOW AND THESE MEASURES SHOWN ON THE EROSION AND TURBIDITY CONTROL PLAN. IN ADDITION THE CONTRACTOR SHALL UNDERTAKE ADDITIONAL MEASURES REQUIRED TO BE IN COMPLIANCE WITH APPLICABLE PERMIT CONDITIONS AND STATE WATER QUALITY STANDARDS, DEPENDING ON THE NATURE OF MATERIALS AND METHODS OF CONSTRUCTION THE CONTRACTOR MAY BE REQUIRED TO ADD FURTHER TO THE RETENTION SYSTEM PRIOR TO PLACING THE SYSTEM INTO OPERATION.</p> <p><b>SEQUENCE OF MAJOR ACTIVITIES:</b></p> <p>THE ORDER OF ACTIVITIES WILL BE AS FOLLOWS:</p> <ol style="list-style-type: none"> <li>1. INSTALL STABILIZED CONSTRUCTION ENTRANCE</li> <li>2. INSTALL SHEET PILES AND MAT BARRIERS AS REQUIRED</li> <li>3. CLEAR AND GRUB FOR OVERSEED SEDIMENTATION AND SEDIMENT BASIN</li> <li>4. CONSTRUCT SEDIMENTATION BASIN</li> <li>5. CONTINUE CLEARING AND GRUBBING</li> <li>6. STOCK PILE TOP SOIL IF REQUIRED</li> <li>7. PERFORM PRELIMINARY GRADING ON SITE AS REQUIRED</li> <li>8. STABILIZE DISTURBED AREAS AND SIDEWALKS AS SOON AS PRACTICABLE</li> </ol> <p><b>TIMING OF CONTROLS/MEASURES</b></p> <p>AS INDICATED IN THE SEQUENCE OF MAJOR ACTIVITIES, THE SILT FENCES AND MAT BARRIERS, STABILIZED CONSTRUCTION ENTRANCE AND SEDIMENT BASIN WILL BE CONSTRUCTED PRIOR TO CLEARING OR GRADING OF ANY OTHER PORTIONS OF THE SITE. STABILIZATION MEASURES SHALL BE INSTALLED AS SOON AS PRACTICABLE IN PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED. ONCE CONSTRUCTION ACTIVITIES CEASE PERMANENTLY IN AN AREA, THAT AREA WILL BE STABILIZED. PERMANENT STABILIZATION WITH PLANTS, AFTER THE ENTIRE SITE IS STABILIZED, THE ACCUMULATED SEDIMENT WILL BE REMOVED FROM SEDIMENT TRAPS AND THE DRAINAGE DITCHES WILL BE REGRADED AND STABILIZED IN ACCORDANCE WITH THE EROSION &amp; TURBIDITY CONTROL PLAN.</p> <p><b>CONTROLS</b></p> <p>IT IS THE CONTRACTOR'S RESPONSIBILITY TO IMPLEMENT THE EROSION AND TURBIDITY CONTROLS AS SHOWN ON THE EROSION AND TURBIDITY CONTROL PLAN. IT ALSO IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE THESE CONTROLS ARE PROPERLY INSTALLED, MAINTAINED AND FUNCTIONING PROPERLY TO PREVENT TURBIDITY OR POLLUTED WATER FROM LEAVING THE PROJECT SITE. THE CONTRACTOR WILL ADJUST THE EROSION AND TURBIDITY CONTROLS BASED ON THE EROSION AND TURBIDITY CONTROL PLAN AND ADDITIONAL CONTROL MEASURES AS REQUIRED TO ENSURE THE SITE MEETS ALL FEDERAL, STATE AND LOCAL EROSION AND TURBIDITY CONTROL REQUIREMENTS. THE FOLLOWING BEST MANAGEMENT PRACTICES WILL BE IMPLEMENTED BY THE CONTRACTOR AS REQUIRED BY THE EROSION AND TURBIDITY CONTROL PLAN AND AS REQUIRED TO MEET THE EROSION AND TURBIDITY REQUIREMENTS IMPROVED ON THE PROJECT SITE BY THE REGULATORY AGENCIES.</p> <p><b>EROSION AND SEDIMENT CONTROLS</b></p> <p><b>STABILIZATION PRACTICES</b></p> <ol style="list-style-type: none"> <li>1. STRAIN BALE BARRIERS: STRAIN BALE BARRIERS CAN BE USED BELOW DISTURBED AREAS SUBJECT TO SHEET AND RILL EROSION WITH THE FOLLOWING LIMITATIONS: A. WHEN THE MAXIMUM SLOPE BEHIND THE BARRIER IS 33 PERCENT. B. IN RIVULUS SLOPES OR DITCH LINES WHERE THE MAXIMUM CONTRIBUTING DRAINAGE AREA IS NO GREATER THAN 1 ACRE. C. WHERE EFFECTIVENESS IS REQUIRED FOR LESS THAN 3 MONTHS. D. EVERY EFFORT SHOULD BE MADE TO LIMIT THE USE OF STRAIN BALE BARRIERS CONSTRUCTED IN LOW STREAMS OR IN CREEKS WHERE THERE IS THE POSSIBILITY OF A WASHOUT. IF NECESSARY, MEASURES SHALL BE TAKEN TO PROPERLY ANCHOR BALES TO PREVENT WASHOUT.</li> <li>2. FILTER FABRIC BARRIER: FILTER FABRIC BARRIERS CAN BE USED BELOW DISTURBED AREAS SUBJECT TO SHEET AND RILL EROSION WITH THE FOLLOWING LIMITATIONS: A. WHEN THE MAXIMUM SLOPE BEHIND THE BARRIER IS 33 PERCENT. B. IN RIVULUS SLOPES OR DITCH LINES WHERE THE MAXIMUM CONTRIBUTING DRAINAGE AREA IS NO GREATER THAN 2 ACRES.</li> <li>3. BRUSH BARRIER WITH FILTER FABRIC: BRUSH BARRIER MAY BE USED BELOW DISTURBED AREAS SUBJECT TO SHEET AND RILL EROSION WHEN EROSION RESISTIVE MATERIAL IS AVAILABLE OR USED.</li> <li>4. LEVEL SPREADER: A LEVEL SPREADER MAY BE USED WHERE SEDIMENT-FREE STORM RUNOFF IS INTERFERED AND DIVERTED AWAY FROM THE GRADED AREAS INTO UNDISTURBED STANDED AREAS. THIS PRACTICE APPLIES ONLY IN THOSE SITUATIONS WHERE THE SPREADER CAN BE CONSTRUCTED ON UNDISTURBED SOIL AND THE AREA BELOW THE LEVEL LIP IS STABILIZED. THE WHEEL SHOULD NOT BE ALLOWED TO RECONTACT AFTER RELEASE.</li> <li>5. STOCKPILING MATERIAL: NO EXCESSIVE MATERIAL SHALL BE STOCKPILED IN SUCH A MANNER AS TO DISBURT RUNOFF DIRECTLY OFF THE PROJECT SITE INTO ANY ADJACENT WATER BODY OR STORM WATER COLLECTION FACILITY.</li> <li>6. EXPOSED AREA LIMITATION: THE SURFACE AREA OF OPEN, BARE ERODIBLE SOIL EXPOSED BY CLEARING AND GRUBBING OPERATIONS OR</li> </ol>	<p><b>EROSION AND FILLING OPERATIONS SHALL NOT EXCEED 10 ACRES.</b> THIS REQUIREMENT MAY BE WAIVED FOR LARGE PROJECTS WITH AN EROSION CONTROL PLAN WHICH DEMONSTRATES THAT OPERATING OF ADDITIONAL AREAS WILL NOT SIGNIFICANTLY AFFECT OFF-SITE DEPOSIT OF SEDIMENT.</p> <p>7. INLET PROTECTION: INLETS AND CATCH BASINS WHICH DISCHARGE DIRECTLY OFF SITE SHALL BE PROTECTED FROM SEDIMENT SLURRY STORM RUNOFF UNTIL THE COMPLETION OF ALL CONSTRUCTION OPERATIONS THAT MAY CONTRIBUTE SIGNIFICANTLY TO THE INLET PROTECTION.</p> <p>8. TEMPORARY SEEDING: AREAS EXPOSED BY CONSTRUCTION OPERATIONS THAT ARE NOT ANTICIPATED TO BE RE-VEGETATED OR GRESSED AND RECEIVE FINAL GRASSING TREATMENT WITHIN 30 DAYS SHALL BE SEEDDED WITH A QUICK GERMINATING GRASS SPECIES WHICH WILL PROVIDE AN EARLY COVER DURING THE SEASON IN WHICH IT IS PLANTED AND WILL NOT LATER COMPETE WITH THE PERMANENT GRASSING.</p> <p>9. TEMPORARY SEEDING AND MULCHING: SLOPES STEEPER THAN 6:1 THAT FALL WITHIN THE CATEGORY ESTABLISHED IN PARAGRAPH 4 ABOVE SHALL ADDITIONALLY RECEIVE MULCHING OF APPROXIMATELY 2 INCHES LOOSE LEAF LITTER OR MULCH MATERIAL CUT INTO THE SOIL OF THE SEEDING AREA ACROSS TO PREVENT MOVEMENT OF SEED AND MULCH.</p> <p>10. TEMPORARY GRASSING: THE SEEDER OR SEEDER OR MULCHER OPERATIONS SHALL BE ROLLED AND WATERED OR HYDRATED MULCHES OR OTHER SUITABLE METHODS IF REQUIRED TO ASSURE OPTIMUM GERMINATION CONDITIONS FOR THE ESTABLISHMENT OF A GOOD GRASS COVER.</p> <p>11. TEMPORARY GRASSING: IF, AFTER 15 DAYS FROM SEEDING, THE TEMPORARY GRASSING AREAS HAVE NOT ATTAINED A MINIMUM OF 75 PERCENT GOOD GRASS COVER, THE AREA WILL BE REWORKED AND ADDITIONAL SEED APPLIED SUFFICIENT TO ESTABLISH THE DESIRED VEGETATIVE COVER.</p> <p>12. MAINTENANCE: ALL FEATURES OF THE PROJECT DESIGNED AND CONSTRUCTED TO PREVENT EROSION AND SEDIMENT SHALL BE MAINTAINED THROUGH THE LIFE OF THE CONSTRUCTION AS TO FUNCTION AS INTENDED BY THE DESIGNER AND COMPLETED AND ACCEPTED.</p> <p>13. PERMANENT EROSION CONTROL: THE EROSION CONTROL FACILITIES OF THE PROJECT SHOULD BE DESIGNED TO MINIMIZE THE IMPACT OF THE OFFSITE FACILITIES.</p> <p>14. PERMANENT SEEDING: ALL AREAS WHICH WERE DISTURBED BY CONSTRUCTION WILL, AS A MINIMUM, BE SEEDDED. THE SEEDING RATE MUST PROVIDE BOTH LONG-TERM VEGETATION AND RAPID GROWTH REGIONAL SPECIES THAT ARE STEEPER THAN 4:1 SHALL BE SEEDDED AND MULCHED ON SOODED.</p>	<p><b>NEEDED TO PREVENT POSSIBLE SPILLAGE. THE WASTE WILL BE COLLECTED AND DISPOSED OF IN ACCORDANCE WITH STATE AND LOCAL WASTE DISPOSAL REGULATIONS FOR SANITARY WASTE OR SEPTIC SYSTEMS.</b></p> <p><b>OFFSITE VEHICLE TRACKING</b></p> <p>A STABILIZED CONSTRUCTION ENTRANCE WILL BE PROVIDED TO HELP PREVENT VEHICLE TRACKING OF SEDIMENTS TO THE PAVED STREET ADJACENT TO THE SITE ENTRANCE WILL BE SWEEP DAILY TO REMOVE ANY EXCESS MUD, DIRT OR MUD TRACKER FROM THE SITE. DUMP TRUCKS HAULING MATERIAL FROM THE CONSTRUCTION SITE WILL BE COVERED WITH A TARP.</p> <p><b>INVENTORY FOR POLLUTION PREVENTION PLAN</b></p> <p>THE MATERIALS OR SUBSTANCES LISTED BELOW ARE EXPECTED TO BE PRESENT ON SITE DURING THE CONSTRUCTION.</p> <p>Concrete - Portland Cement Asphalt Tar Cleaning Solvents Paints</p> <p><b>SPILL PREVENTION</b></p> <p><b>MATERIAL HANDLING PRACTICES</b></p> <p>THE FOLLOWING ARE THE MATERIAL HANDLING PRACTICES THAT WILL BE USED TO REDUCE THE RISK OF SPILLS OR OTHER ACCIDENTAL EXPOSURE OF MATERIALS AND RESIDUES TO STORM WATER RUNOFF.</p> <p><b>GOOD HOUSEKEEPING</b></p> <p>THE FOLLOWING GOOD HOUSEKEEPING PRACTICES WILL BE FOLLOWED ON SITE DURING THE CONSTRUCTION PERIOD:</p> <ul style="list-style-type: none"> <li>• AN EFFORT WILL BE MADE TO STORE ONLY ENOUGH PRODUCT REQUIRED TO DO THE JOB.</li> <li>• ALL MATERIALS STORED ON SITE WILL BE STORED IN A neat, orderly MANNER IN THEIR APPROPRIATE CONTAINERS AND, IF POSSIBLE, UNDER A ROOF OR OTHER ENCLOSURE.</li> <li>• PRODUCTS WILL BE KEPT IN THEIR ORIGINAL CONTAINERS WITH THE ORIGINAL MANUFACTURER'S LABEL.</li> <li>• SUBSTANCES WILL NOT BE MIXED WITH ONE ANOTHER UNLESS RECOMMENDED BY THE MANUFACTURER.</li> <li>• WHEREAS POSSIBLE, ALL OF A PRODUCT WILL BE USED UP BEFORE DISPOSAL OF THE CONTAINER.</li> <li>• MANUFACTURER'S RECOMMENDATIONS FOR PROPER USE AND DISPOSAL WILL BE FOLLOWED.</li> <li>• THE SITE SUPERINTENDENT WILL INSPECT DAILY TO ENSURE MATERIALS ON SITE RECEIVE PROPER USE AND DISPOSAL.</li> </ul> <p><b>HAZARDOUS PRODUCTS</b></p> <p>THESE PRACTICES ARE USED TO REDUCE THE RISKS ASSOCIATED WITH HAZARDOUS MATERIALS.</p> <ul style="list-style-type: none"> <li>• PRODUCTS WILL BE KEPT IN ORIGINAL CONTAINERS UNLESS THEY ARE NOT RESEALABLE.</li> <li>• ORIGINAL LABELS AND MATERIAL SAFETY DATA WILL BE RETAINED; THEY CONTAIN IMPORTANT PRODUCT INFORMATION.</li> <li>• IF HAZARDOUS PRODUCT IS NOT USED, MANUFACTURER'S OR LOCAL AND STATE RECOMMENDED METHODS FOR PROPER DISPOSAL WILL BE FOLLOWED.</li> </ul> <p><b>PRODUCT SPECIFIC PRACTICES</b></p> <p>THE FOLLOWING PRODUCT SPECIFIC PRACTICES WILL BE FOLLOWED ON SITE:</p> <p><b>PESTICIDES</b></p> <p>ALL ON SITE VEHICLES WILL BE MAINTAINED FOR LEAKS AND EXCESS LEAKAGE PREVENTIVE MAINTENANCE TO REDUCE THE CHANCE OF ACCIDENT. PESTICIDES PRODUCTS WILL BE STORED IN TIGHTLY SEALED CONTAINERS WHICH ARE CLEARLY LABELED. ANY AERIAL SUBSTANCES USED ON SITE WILL BE APPLIED ACCORDING TO THE MANUFACTURER'S RECOMMENDATIONS.</p> <p><b>FERTILIZERS</b></p> <p>FERTILIZERS USED WILL BE APPLIED ONLY IN THE MINIMUM AMOUNTS RECOMMENDED BY THE MANUFACTURER. WHEN APPLIED, FERTILIZER WILL BE WORKED INTO THE SOIL TO LIMIT EXPOSURE TO STORM WATER. STORAGE WILL BE IN A COVERED AREA. THE CONTENTS OF ANY PARTIALLY USED BAGS OF FERTILIZER WILL BE TRANSFERRED TO A SEALABLE PLASTIC BAG TO AVOID SPILLS.</p> <p><b>PAINTS</b></p> <p>ALL CONTAINERS WILL BE TIGHTLY SEALED AND STORED WHEN NOT REQUIRED FOR USE. EXCESS PAINT WILL NOT BE DISCHARGED TO THE STORM WATER SYSTEM BUT WILL BE PROPERLY DISPOSED OF ACCORDING TO MANUFACTURER'S INSTRUCTIONS OR STATE AND LOCAL REGULATIONS.</p> <p><b>CONCRETE PRODUCTS</b></p> <p>CONCRETE TRUCKS WILL NOT BE ALLOWED TO WASH OUT OR DISCHARGE SURPLUS CONCRETE ON DRAIN WATER FROM THE SITE.</p> <p><b>SPILL CONTROL PRACTICES</b></p> <p>IN ADDITION TO THE GOOD HOUSEKEEPING AND MATERIAL HANDLING PRACTICES DISCUSSED IN THE PREVIOUS SECTIONS OF THIS PLAN, THE FOLLOWING PRACTICES WILL BE FOLLOWED FOR SPILL PREVENTION AND CLEANUP:</p> <p>MANUFACTURER'S RECOMMENDED METHODS FOR SPILL CLEANUP WILL BE CAREFULLY POSTED ON SITE AND SITE PERSONNEL WILL BE MADE AWARE OF THE PROCEDURES AND THE LOCATION OF THE INFORMATION AND CLEANUP SUPPLIES.</p> <p>MATERIALS AND EQUIPMENT NECESSARY FOR SPILL CLEANUP WILL BE KEPT IN THE MATERIAL STORAGE AREA ON SITE. EQUIPMENT AND MATERIALS WILL</p>	<p>INCLUDE BUT NOT BE LIMITED TO: DRUMS, DUST PANS, HOPS, BAGS, GLOVES, COGGERS, LIQUID ABSORBENT (E.G. KEPTLY UFFER ON EQUAL), SAND, SERRATED, AND PLASTIC AND METAL TRASH CONTAINERS SPECIFICALLY FOR THIS PURPOSE.</p> <p>ALL SPILLS WILL BE CLEANED UP IMMEDIATELY AFTER DISCOVERY.</p> <p>THE SPILL AREA WILL BE KEPT WELL VENTILATED AND PERSONNEL WILL WEAR APPROPRIATE PROTECTIVE CLOTHING TO PREVENT INJURY FROM CONTACT WITH A HAZARDOUS SUBSTANCE.</p> <p>SPILL OF TOXIC OR NON-TOXIC MATERIAL WILL BE REPORTED TO THE APPROPRIATE STATE OR LOCAL GOVERNMENT AGENCY, REGARDLESS OF THE SIZE OF THE SPILL.</p> <p>PREVENT THIS TYPE OF SPILL FROM REOCCURRING AND HOW TO CLEAN UP THE SPILL IF THERE IS ANOTHER ONE. A CHECKLIST OF THE SPILL, WHAT CAUSED IT, AND THE CLEANUP MEASURES WILL ALSO BE INCLUDED.</p> <p>THE SITE SUPERINTENDENT RESPONSIBLE FOR THE DAY-TO-DAY SITE OPERATIONS, WILL BE THE SPILL PREVENTION AND CLEANUP COORDINATOR. HE/SHE WILL DESIGNATE AT LEAST ONE OTHER SITE PERSONNEL WHO WILL RECEIVE SPILL PREVENTION AND CLEANUP TRAINING. THESE INDIVIDUALS WILL BECOME RESPONSIBLE FOR A PARTICULAR PHASE OF PREVENTION AND CLEANUP. THE NAMES OF RESPONSIBLE STAFF PERSONNEL WILL BE POSTED IN THE MATERIAL STORAGE AREA OR IF APPLICABLE, IN THE OFFICE OF THE TRUCKER OR SITE.</p> <p><b>MAINTENANCE/INSPECTION PROCEDURES</b></p> <p><b>EROSION AND SEDIMENT CONTROL: INSPECTION AND MAINTENANCE PRACTICES</b></p> <p>THE FOLLOWING ARE THE INSPECTION AND MAINTENANCE PRACTICES THAT WILL BE USED TO MAINTAIN EROSION AND SEDIMENT CONTROLS:</p> <ul style="list-style-type: none"> <li>• NO MORE THAN 10 ACRES OF THE SITE WILL BE DEVELOPED AT ONE TIME WITHOUT WRITTEN PERMISSION FROM THE PERMITTING AGENCY.</li> <li>• ALL CONTROL MEASURES WILL BE INSPECTED BY THE SUPERINTENDENT. THE PERSON RESPONSIBLE FOR THE DAY TO DAY SITE OPERATION OR SOMEONE APPROVED BY THE SUPERINTENDENT WILL AT LEAST ONCE A WEEK AND FOLLOWING ANY STORM EVENT OF 0.25 INCHES OR GREATER.</li> <li>• ALL TURBIDITY CONTROL MEASURES WILL BE MAINTAINED IN GOOD WORKING ORDER. IF A REPAIR IS NECESSARY, IT WILL BE INSTALLED WITHIN 24 HOURS OF REPORT.</li> <li>• BUILT UP SEDIMENT WILL BE REMOVED FROM SILT FENCE WHEN IT HAS EXCEEDED THE HEIGHT OF THE FENCE.</li> <li>• SILT FENCE WILL BE INSPECTED FOR BIRTH OF SEDIMENT. YEARS TO SEE IF THE FENCE IS SECURELY ATTACHED TO THE FENCE POSTS AND TO SEE IF THE FENCE POSTS ARE FIRM IN THE GROUND.</li> <li>• THE SEDIMENT BASIN WILL BE INSPECTED FOR THE BIRTH OF SEDIMENT, AND BUILT UP SEDIMENT WILL BE REMOVED WHEN IT REACHES 10 PERCENT OF THE DESIGN CAPACITY OR AT THE END OF THE JOB.</li> <li>• OVERFLOW DRAINWAYS WILL BE INSPECTED AND ANY OBSTRUCTIONS PROMPTLY REPAIRED.</li> <li>• MAINTENANCE/INSPECTION REPORT WILL BE MADE AFTER EACH INSPECTION.</li> </ul> <p>THE REPORTS WILL BE KEPT ON SITE DURING CONSTRUCTION AND MAINTENANCE WORK SUBJECT TO THE OWNER, ENGINEER OR ANY FEDERAL, STATE OR LOCAL AGENCY APPROVING SEDIMENT AND EROSION PLAN, AND STORM WATER MANAGEMENT PLAN.</p> <p>THE REPORTS SHALL BE MADE AND RETAINED AS PART OF THE STORM WATER POLLUTION PREVENTION PLAN FOR AT LEAST THREE YEARS FROM THE DATE THAT THE SITE IS FINALLY STABILIZED AND THE NOTICE OF TERMINATION IS SUBMITTED.</p> <p>• THE SITE SUPERINTENDENT WILL SELECT UP TO THREE INDIVIDUALS WHO WILL BE RESPONSIBLE FOR INSPECTION, MAINTENANCE AND REPAIR AND MAINTENANCE, AND FILLING OUT THE INSPECTION AND MAINTENANCE REPORT.</p> <p>PERSONNEL SELECTED FOR INSPECTION AND MAINTENANCE RESPONSIBILITIES WILL RECEIVE TRAINING FROM THE SITE SUPERINTENDENT. THEY WILL BE TRAINED IN ALL THE INSPECTION AND MAINTENANCE PROCEDURES AND METHODS FOR EROSION AND SEDIMENT CONTROLS USED ON SITE. GOOD HOUSEKEEPING.</p> <p><b>NON-Storm Water Discharges</b></p> <p>IF IT IS EXPECTED THAT THE FOLLOWING NON-Storm Water Discharges WILL OCCUR FROM THE SITE DURING THE CONSTRUCTION PERIOD:</p> <ul style="list-style-type: none"> <li>• WATER FROM WATER LINE FLEETING</li> <li>• AMBIENT WASH WATER (UNLESS NO SPILLS OR LEAKS OF TOXIC OR HAZARDOUS MATERIALS HAVE OCCURRED).</li> <li>• UNCONTAMINATED GROUNDWATER FROM DRAINAGE EXCAVATIONS</li> <li>• NON-Storm Water Discharges WILL BE DIRECTED TO THE SEDIMENT BASIN PRIOR TO DISCHARGE.</li> </ul>

REVISIONS	
DATE	DESCRIPTION
DATE	DESCRIPTION

**ENVIRONMENTAL TECHNOLOGY & SOLUTIONS, INC.**  
MATTHEW S. MAGGIORE, P.E. Lic. No. NUMBER 55371

**ST. JOHNS COUNTY**  
ENGINEERING DEPARTMENT

**STORMWATER POLLUTION PREVENTION PLAN**

SHEET NO. **16**

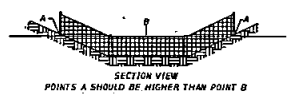
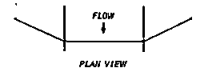


**SEDIMENT AND EROSION CONTROL NOTES**

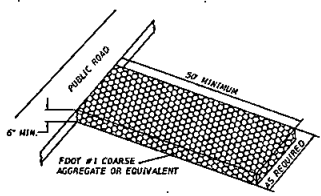
1. THE CONTRACTOR SHALL ADHERE TO THE REQUIREMENTS IN THE FLORIDA EROSION & SEDIMENT CONTROL MANUAL, JUNE 2007.
2. THE CONTRACTOR IS RESPONSIBLE FOR REMOVING SILT FROM SITE IF NOT REUSABLE ON-SITE AND ASSURING PLAN ALIGNMENT AND GRADE IN ALL DITCHES AND SHALES AT COMPLETION OF CONSTRUCTION.
3. THE SITE CONTRACTOR IS RESPONSIBLE FOR REMOVING THE TEMPORARY EROSION AND SEDIMENT CONTROL DEVICES AFTER COMPLETION OF CONSTRUCTION AND ONLY WHEN AREAS HAVE BEEN STABILIZED.
4. ADDITIONAL PROTECTION - ON-SITE PROTECTION IN ADDITION TO THE ABOVE MUST BE PROVIDED THAT WILL NOT PERMIT SILT TO LEAVE THE PROJECT CONFINES DUE TO UNSEEN CONDITIONS OR ACCIDENTS.
5. CONTRACTOR SHALL INSURE THAT ALL DRAINAGE STRUCTURES, PIPES, ETC. ARE CLEANED OUT AND WORKING PROPERLY AT TIME OF ACCEPTANCE.
6. WIRE MESH SHALL BE LAID OVER THE DROP INLET SO THAT THE WIRE EXTENDS A MINIMUM OF 1 FOOT BEYOND EACH SIDE OF THE INLET STRUCTURE. HARDWARE CLOTH OR COMPARABLE WIRE MESH WITH 1/2-INCH OPENINGS SHALL BE USED. IF MORE THAN ONE STRIP OF MESH IS NECESSARY, THE STRIPS SHALL BE OVERLAPPED.
7. FOOT NO. 1 COARSE AGGREGATE SHALL BE PLACED OVER THE WIRE MESH AS INDICATED ON PLATE 108C. THE DEPTH OF STONE SHALL BE AT LEAST 12 INCHES OVER THE ENTIRE INLET OPENING. THE STONE SHALL EXTEND BEYOND THE INLET OPENING AT LEAST 18 INCHES ON ALL SIDES.
8. IF THE STONE FILTER BECOMES CLOGGED WITH SEDIMENT SO THAT IT NO LONGER ADEQUATELY PERFORMS ITS FUNCTION, THE STONES MUST BE PULLED AWAY FROM THE INLET, CLEANED AND REPLACED.
9. BALES SHALL BE EITHER WIRE-ROUND OR STRING-TIED WITH THE BINDINGS ORIENTED AROUND THE SIDES RATHER THAN OVER AND UNDER THE BALES.
10. BALES SHALL BE PLACED LENGTHWAYS IN A SINGLE ROW SURROUNDING THE INLET, WITH THE ENDS OF ADJACENT BALES PRESSED TOGETHER.
11. THE FILTER BARRIER SHALL BE ENTRENCHED AND BACKFILLED. A TRENCH SHALL BE EXCAVATED TO A MINIMUM DEPTH OF 4 INCHES. AFTER THE BALES ARE STAKED, THE EXCAVATED SOIL SHALL BE BACKFILLED AND COMPACTED AGAINST THE FILTER BARRIER.
12. EACH BALE SHALL BE SECURELY ANCHORED AND HELD IN PLACE BY AT LEAST TWO STAKES OR REBARS DRIVEN THROUGH THE BALE.
13. LOOSE MATERIAL SHOULD BE WEDGED BETWEEN BALES TO PREVENT WATER FROM ENTERING BETWEEN BALES.
14. BALE BARRIERS SHALL BE INSPECTED IMMEDIATELY AFTER EACH RAINFALL AND AT LEAST DAILY DURING PROLONGED RAINFALLS.
15. CLOSE ATTENTION SHALL BE PAID TO THE REPAIR OF DAMAGED BALES, END RUNS AND UNDERCUTTING BENEATH BALES.
16. NECESSARY REPAIRS TO BARRIERS OR REPLACEMENT OF SHALL BE ACCOMPLISHED PROMPTLY.
17. SEDIMENT DEPOSITS SHOULD BE REMOVED AFTER EACH RAINFALL. THEY MUST BE REMOVED WHEN THE LEVEL OF DEPOSITION REACHES APPROXIMATELY ONE-HALF THE HEIGHT OF THE BARRIER.
18. ANY SEDIMENT DEPOSITS REMAINING IN PLACE AFTER THE STRAW BALE BARRIER IS NO LONGER REQUIRED SHALL BE DRESSED TO CONFORM TO THE EXISTING GRADE, PREPARED AND SEEDED.
19. SILT FENCES AND FILTER BARRIERS SHALL BE INSPECTED IMMEDIATELY AFTER EACH RAINFALL AND AT LEAST DAILY DURING PROLONGED RAINFALL. ANY REQUIRED REPAIRS SHALL BE MADE IMMEDIATELY.
20. SHOULD THE FABRIC ON A SILT FENCE OR FILTER BARRIER DECOMPOSE OR BECOME INEFFECTIVE PRIOR TO THE END OF THE EXPECTED USABLE LIFE AND THE BARRIER STILL BE NECESSARY, THE FABRIC SHALL BE REPLACED PROMPTLY.
21. SEDIMENT DEPOSITS SHOULD BE REMOVED AFTER EACH STORM EVENT. THEY MUST BE REMOVED WHEN DEPOSITS REACH APPROXIMATELY ONE-HALF THE HEIGHT OF THE BARRIER.
22. ANY SEDIMENT DEPOSITS REMAINING IN PLACE AFTER THE SILT FENCE OR FILTER BARRIER IS NO LONGER REQUIRED SHALL BE DRESSED TO CONFORM WITH THE EXISTING GRADE, PREPARED AND SEEDED.
23. THE STRUCTURE SHALL BE INSPECTED AFTER EACH RAIN AND REPAIRS MADE AS NEEDED.
24. SEDIMENT SHALL BE REMOVED AND THE TRAP RESTORED TO ITS ORIGINAL DIMENSIONS WHEN THE SEDIMENT HAS ACCUMULATED TO THE DESIGN DEPTH IN THE TRAP. REMOVED SEDIMENT SHALL BE DEPOSITED IN A SUITABLE AREA AND IN SUCH A MANNER THAT IT WILL NOT FRODE.
25. THE CONTRACTOR IS RESPONSIBLE FOR FOLLOWING THE BEST EROSION AND SEDIMENT CONTROL PRACTICES AS OUTLINED IN THE PLANS, SPECIFICATIONS AND ST. JOHNS RIVER WATER MANAGEMENT DISTRICT SPECIFICATIONS AND CRITERIA.
26. EROSION AND SEDIMENT CONTROL BARRIERS BE PLACED ADJACENT TO ALL WETLAND AREAS WHERE THERE IS POTENTIAL FOR DOWNSTREAM WATER QUALITY DEGRADATION. SEE DETAIL SHEET FOR TYPICAL CONSTRUCTION.
27. ALL DISTURBED AREAS SHALL BE GRASSED, FERTILIZED, MULCHED AND MAINTAINED UNTIL A PERMANENT VEGETATIVE COVER IS ESTABLISHED.
28. SOD SHALL BE PLACED IN AREAS WHICH MAY REQUIRE IMMEDIATE EROSION PROTECTION TO ENSURE WATER QUALITY STANDARDS ARE MAINTAINED.
29. ANY DISCHARGE FROM DEWATERING ACTIVITY SHALL BE FILTERED AND CONVEYED TO THE OUTFALL IN A MANNER WHICH PREVENTS EROSION AND TRANSPORTATION OF SUSPENDED SOLIDS TO THE RECEIVING OUTFALL.
30. DEWATERING PUMPS SHALL NOT EXCEED THE CAPACITY OF THAT WHICH REQUIRES A CONSUMPTIVE USE PERMIT FROM THE ST. JOHNS RIVER WATER MANAGEMENT DISTRICT.
31. ALL DISTURBED AREAS TO BE STABILIZED THROUGH COMPACTION, SILT SCREENS, BAKED, AND GRASSING. ALL FILL SLOPES 3:1 OR STEEPER TO RECEIVE STAKED SOLID SOD.
32. ALL DEWATERING, EROSION, AND SEDIMENT CONTROL TO REMAIN IN PLACE AFTER COMPLETION OF CONSTRUCTION AND ONLY WHEN AREAS HAVE BEEN STABILIZED.
33. THIS PLAN INDICATES THE MINIMUM EROSION AND SEDIMENT MEASURES REQUIRED FOR THIS PROJECT. THE CONTRACTOR IS RESPONSIBLE FOR MEETING ALL APPLICABLE RULES, REGULATIONS AND WATER QUALITY GUIDELINES, AND MAY NEED TO INSTALL ADDITIONAL CONTROLS.
34. THE CONTRACTOR SHALL BE REQUIRED TO RESPOND TO ALL WATER MANAGEMENT DISTRICT INQUIRIES, RELATIVE TO COMPLIANCE OF SLOTTED FOR EROSION AND SEDIMENTATION CONTROL. THE COST OF THIS COMPLIANCE SHALL BE PART OF THE CONTRACT.



**PROPER PLACEMENT OF BALE IN A DRAINAGE WAY**  
N.T.S.

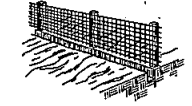
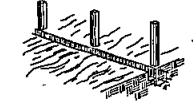


**PROPER PLACEMENT OF A FILTER BARRIER IN DRAINAGE WAY**  
N.T.S.

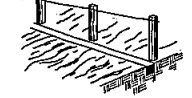
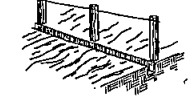


**STABILIZED CONSTRUCTION ENTRANCE**  
N.T.S.

1. SET POSTS AND EXCAVATE A 4" X 4" TRENCH UPSLOPE ALONG THE LINE OF POSTS.
2. STAPLE WIRE FENCING TO THE POSTS.



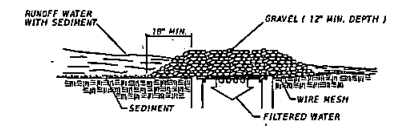
3. ATTACH THE FILTER FABRIC TO THE WIRE FENCE AND EXTEND IT INTO THE TRENCH.
4. BACKFILL AND COMPACT THE EXCAVATED SOIL.



EXTENSION OF FABRIC AND WIRE INTO THE TRENCH.

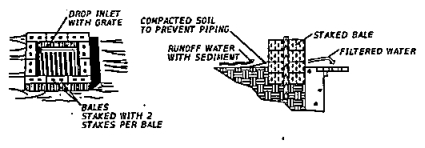


**CONSTRUCTION OF SILT FENCE**  
N.T.S.



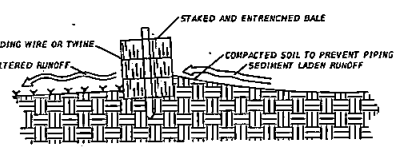
**SPECIFIC APPLICATION**  
THIS METHOD OF INLET PROTECTION IS APPLICABLE WHERE HEAVY CONCENTRATED FLOWS ARE EXPECTED, BUT NOT WHERE PONDING AROUND THE STRUCTURE MIGHT CAUSE EXCESSIVE INCONVENIENCE OR DAMAGE TO ADJACENT STRUCTURES AND UNPROTECTED AREAS.

**GRAVEL AND WIRE MESH DROP INLET SEDIMENT FILTER**  
N.T.S.

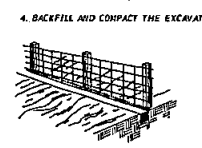
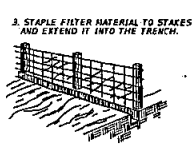
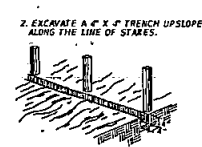
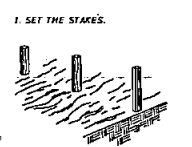


**SPECIFIC APPLICATION**  
THIS METHOD OF INLET PROTECTION IS APPLICABLE WHERE THE INLET DRAINS SHEET OR OVERLAND FLOWS (NOT EXCEEDING 0.5 FEET) ARE TYPICAL. THE METHOD SHALL NOT APPLY TO INLETS RECEIVING CONCENTRATED FLOWS, SUCH AS IN STREET OR HIGHWAY MEDIANS.

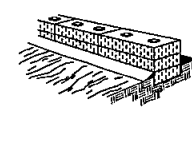
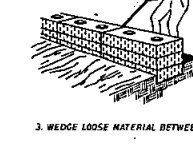
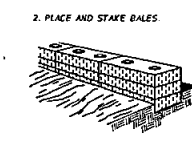
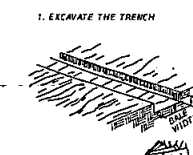
**BALE DROP INLET SEDIMENT FILTER**  
N.T.S.



**CROSS-SECTION OF A PROPERLY INSTALLED BALE**  
N.T.S.



**CONSTRUCTION OF A FILTER BARRIER**  
N.T.S.



**CONSTRUCTION OF A BALE BARRIER**  
N.T.S.

**REVISIONS**

DATE	DESCRIPTION	DATE	DESCRIPTION

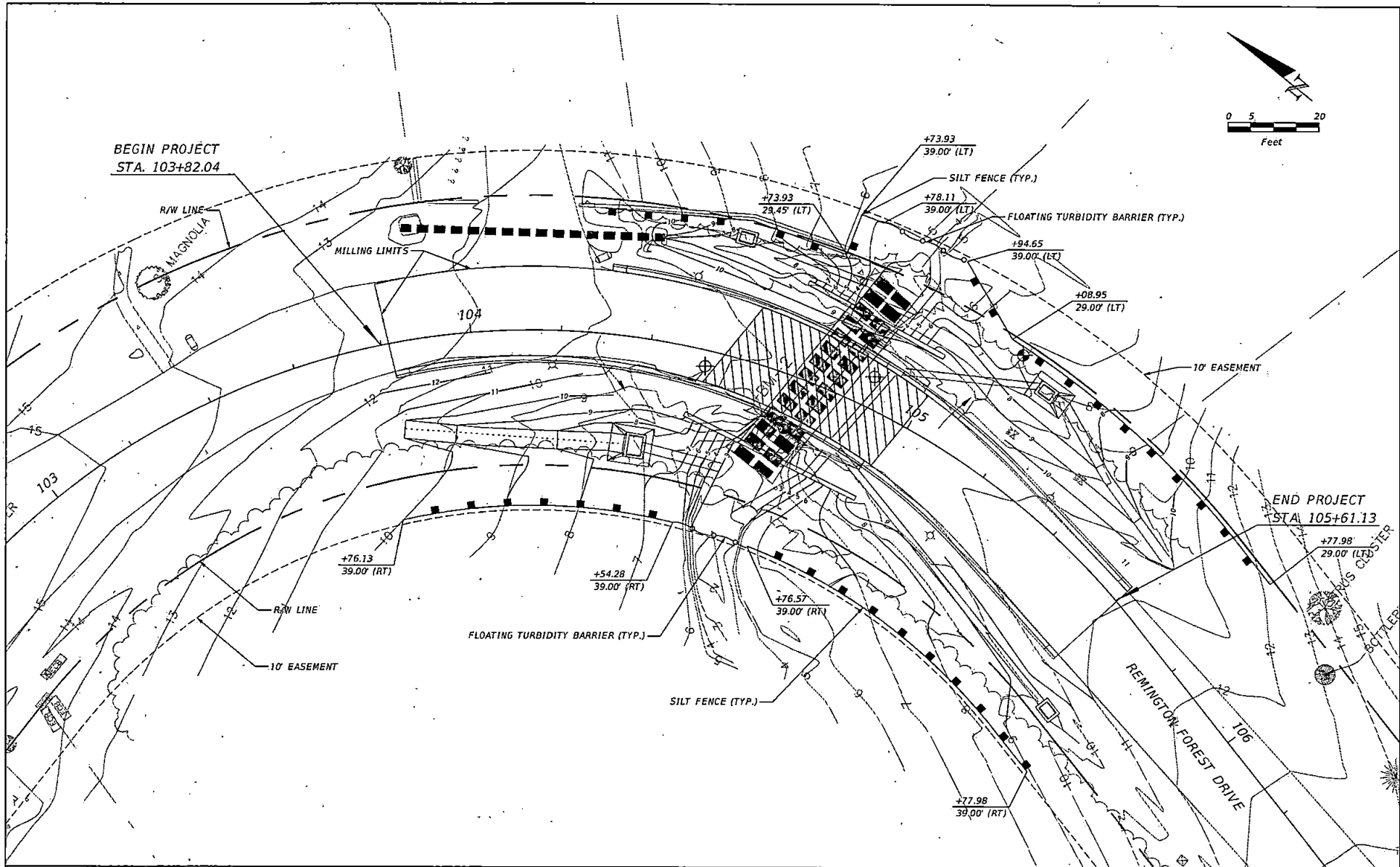
**ETM**  
VALUING • ESTIMATING • RESULTS  
MATTHEW S. MAGGIORE, P.E.  
Lic. No. NUMBER 55371



**ST. JOHNS COUNTY**  
**ENGINEERING DEPARTMENT**

**EROSION CONTROL**  
**NOTES & DETAILS**

SHEET NO.  
**18**



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

**ETM**  
VISION • EXPERIENCE • INTEGRITY  
 MATTHEW S. MAGGIORE, P.E. Lic. No. NUMBER 53371

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 Jacksonville, FL 32226  
 TEL: (904) 842-0800  
 FAX: (904) 842-4425  
 CA: 0002564 LC-0000316

**ST. JOHNS COUNTY**  
 ENGINEERING DEPARTMENT

**REMINGTON FOREST DRIVE**  
 EROSION & SEDIMENT CONTROL PLAN

SHEET NO.
19

TRAFFIC CONTROL NOTES

1. THE CONTRACTOR SHALL PROVIDE FOR ALL LANES OF TRAFFIC TO BE OPEN IN THE CASE OF AN EMERGENCY. THE CONTRACTOR SHALL RESPOND AND PROVIDE ADJUSTMENTS AS DIRECTED BY THE PROJECT ENGINEER WITHOUT DELAY UNDER THESE CONDITIONS. THE CONTRACTOR SHALL ALSO RESPOND WITHIN 30 MINUTES UPON NOTIFICATION BY THE PROJECT ENGINEER TO ANY REQUESTS FOR CORRECTION, IMPROVEMENT OR MODIFICATION TO THE TRAFFIC CONTROL PLAN AND/OR DEVICES.
2. THE CONTRACTOR SHALL ADHERE TO THE REQUIREMENTS SET FORTH IN "THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (M.U.T.C.D.) 2009 EDITION" AND SERIES 600 OF THE "F.D.O.T. DESIGN STANDARDS (CURRENT EDITION)" AT ALL TIMES.
3. ALL TRAFFIC CONTROL DEVICES (TEMPORARY SIGNS, PAVEMENT MARKINGS, BARRIER WALLS, ETC.) REQUIRED DURING A CONSTRUCTION PHASE SHALL BE INSTALLED AND APPROVED BY THE PROJECT ENGINEER OR REPRESENTATIVE PRIOR TO THE DIVERSION OF TRAFFIC AND THE COMMENCEMENT OF CONSTRUCTION AND SHALL BE MAINTAINED IN ACCORDANCE WITH FDOT INDEX 600. FDOT INDEX 600 SHALL BE USED IN CONJUNCTION WITH ALL OTHER INDEXES SPECIFICALLY MENTIONED IN EACH TRAFFIC CONTROL PHASE.
4. ALL EXISTING SIGNS AND PAVEMENT MARKINGS, WHICH CONFLICT WITH THE TRAFFIC CONTROL PLAN DURING A CONSTRUCTION PHASE, SHALL BE REMOVED OR TEMPORARILY RELOCATED AS NECESSARY PRIOR TO THE DIVERSION OF TRAFFIC AND THE COMMENCEMENT OF CONSTRUCTION. THE REMOVAL OF EXISTING PAVEMENT MARKINGS CAN BE ACCOMPLISHED BY ANY METHOD APPROVED BY THE PROJECT ENGINEER. PAINTING OVER EXISTING MARKINGS IS NOT ACCEPTABLE.
5. MINIMUM TRAVEL LANE WIDTHS SHALL BE 9'.
6. ARROWS DENOTE DIRECTION OF TRAFFIC ONLY AND DO NOT REPRESENT PAVEMENT MARKINGS.
7. THE REMOVAL AND REPLACEMENT OF ANY TEMPORARY STRIPING OR R.P.M.'S SHALL BE DONE WITH THE CLOSURE OF THE AFFECTED LANE.
8. ACCESS TO ALL PROPERTIES SHALL BE MAINTAINED AT ALL TIMES.
9. THE CONTRACTOR SHALL MAKE PROVISIONS FOR THE REMOVAL OF STORM WATER FROM THE ROADWAY DURING CONSTRUCTION. PROVISIONS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL BEFORE USE.
10. THE CONTRACTOR SHALL MATCH EXISTING CONDITIONS AT PROJECT BEGINNING AND ENDING AS DIRECTED BY THE ENGINEER.
11. THE CONTRACTOR SHALL NOT MILL MORE THAN CAN BE RESURFACED IN THE SAME DAY'S/NIGHT'S OPERATION. THE FIRST LIFT OF ASPHALT SHALL BE PLACED BEFORE ROADWAY IS OPEN TO TRAFFIC FOLLOWING MILLING.
12. TRAFFIC SHALL BE MAINTAINED ON PAVED SURFACES AT ALL TIMES.
13. TEMPORARY STOP SIGNS FOR CROSS STREETS SHALL BE IN LINE WITH, OR BEHIND, CHANNELIZING DEVICES.
14. ALL COSTS TO MAINTAIN TRAFFIC SHALL BE INCLUDED IN THE LUMP SUM PRICE FOR MAINTENANCE OF TRAFFIC.
15. ALL LANES MUST BE OPEN FOR TRAFFIC DURING A HURRICANE EVACUATION NOTICE OR OTHER CATASTROPHIC EVENT AND SHALL REMAIN OPEN FOR THE DURATION OF THE EVACUATION OR EVENT AS DIRECTED BY THE PROJECT ENGINEER.
16. ANY DAMAGE TO EXISTING ROADWAYS SHALL BE REPAIRED BY THE CONTRACTOR AND RESTORED TO PRIOR CONDITION. DAMAGE SHALL BE MILLED AND RESURFACED NOT PATCHED.
17. CONTRACTOR SHALL BE RESPONSIBLE FOR RIGHT OF WAY MAINTENANCE WITHIN THE CONSTRUCTION AREA AND AREAS MADE INACCESSIBLE DUE TO CONSTRUCTION THROUGHOUT THE TERM OF CONSTRUCTION.
18. CONTRACTOR SHALL HAVE AN FDOT CERTIFIED TEMPORARY TRAFFIC CONTROL SPECIALIST ON CALL 24 HOURS A DAY AND ON SITE DURING WORK HOURS TO MANAGE THE TEMPORARY TRAFFIC CONTROL.

SEQUENCE OF ROADWAY CONSTRUCTION

AT THE BEGINNING OF EACH PHASE: ERECT ADVANCE WARNING SIGNS, BARRICADES & CHANNELING DEVICES AS REQUIRED FOR EACH PHASE. ADJUST PER ACTUAL FIELD CONDITIONS TO ENSURE VISIBILITY OF ALL EXISTING SIGNS WHICH WILL NEED TO REMAIN DURING CONSTRUCTION.

PHASE 1

PLACE TRAFFIC CONTROL DEVICES AND WORK ZONE SIGNS AS SHOWN IN THE PLANS.

CONSTRUCT THE TEMPORARY SHEET PILE WALL, TEMPORARY DOUBLE PIPES AND TEMPORARY PAVEMENT AS SHOWN IN THE PHASE 1 PLANS.

CONTRACTOR SHALL PROVIDE DESIGN DRAWINGS FOR THE TEMPORARY SHEET PILE WALL, SIGNED AND SEALED BY A REGISTERED PROFESSIONAL ENGINEER, FOR COUNTY APPROVAL.

PHASE 2

PLACE TRAFFIC CONTROL DEVICES AND WORK ZONE SIGNS AS SHOWN IN THE PLANS.

CONSTRUCT THE PHASE 2 SECTION OF THE CROSS DRAIN AS SHOWN IN THE PLANS.



BACK FILL AND RECONSTRUCT CURB AND GUTTER, TEMPORARY PAVEMENT.

PHASE 3

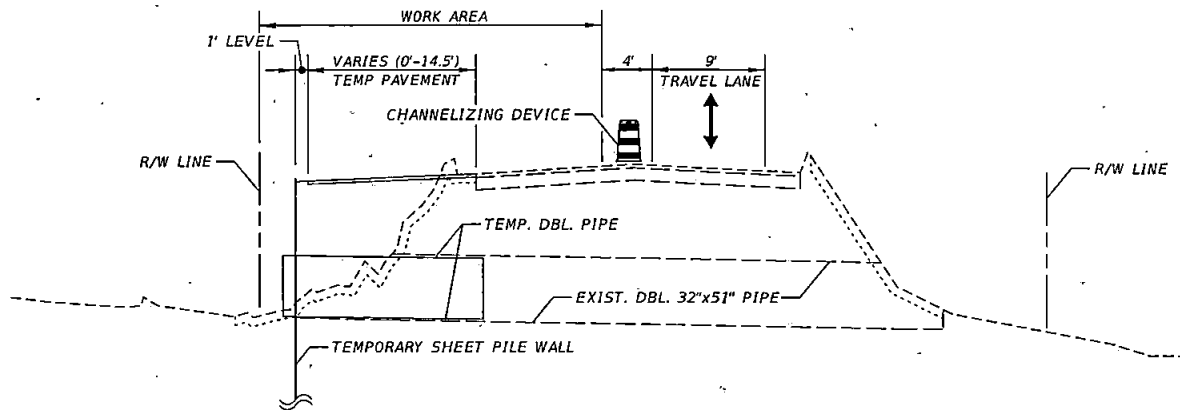
PLACE TRAFFIC CONTROL DEVICES AND WORK ZONE SIGNS AS SHOWN IN THE PLANS.

REMOVE TEMPORARY PAVEMENT, TEMPORARY SHEET PILE WALL, AND THE TEMPORARY PIPES.

CONSTRUCT THE PHASE 3 SECTION OF THE CROSS DRAIN AND THE REMAINING PROPOSED CONSTRUCTION AS SHOWN IN THE PLANS.

REVISIONS		REVISIONS		 <b>ETM</b> <small>VISION • EXPERIENCE • RESULTS</small> MATTHEW S. MAGGIORE, P.E.	 ST. JOHNS COUNTY ENGINEERING DEPARTMENT	TRAFFIC CONTROL GENERAL NOTES	SHEET NO. 20
DATE	DESCRIPTION	DATE	DESCRIPTION				

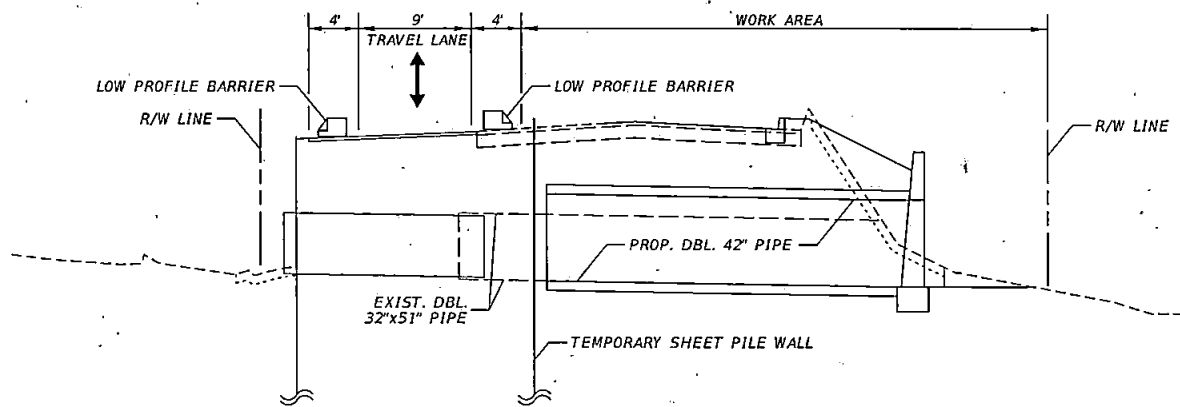




TRAFFIC CONTROL TYPICAL SECTION 1 (PHASE 1)

TEMPORARY PAVEMENT

SUB-BASE MIN. (LBR 40) (MAX. PLASTIC INDEX OF 6)  
 (COMPACTED TO 98% MAX. DENSITY - AASHTO T-160) (12') WITH  
 COMPACTED LIMEROCK BASE (4") (MIN. LBR 75 98% MAX. DENSITY - AASHTO T-160)  
 AND ASPHALTIC CONCRETE TYPE SP-9.5 STRUCTURAL COURSE (1.00')



TRAFFIC CONTROL TYPICAL SECTION 2 (PHASE 2)

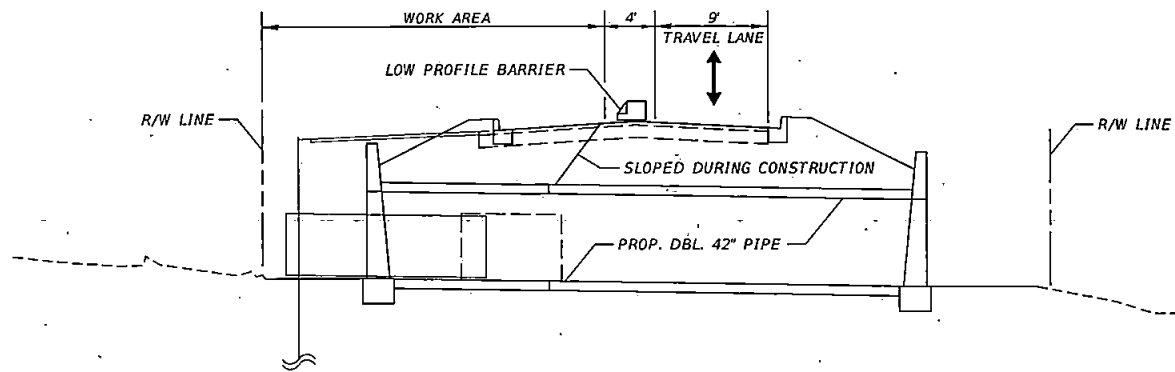
REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

**ETM**  
 ENGINEERING, TRAFFIC & PLANNING, INC.  
 14776 SW 14th Avenue, Suite 100  
 Jacksonville, FL 32256  
 TEL: (904) 844-8888 FAX: (904) 844-8888  
 CA - 90000046 LG - 1000216  
 MATTHEW S. MAGGIORE, P.E. LIC. No. NUMBER 55371

**ST. JOHNS COUNTY**  
 ENGINEERING DEPARTMENT

REMINGTON FOREST DRIVE  
 TRAFFIC CONTROL

SHEET NO.  
 21



TRAFFIC CONTROL TYPICAL SECTION 3 (PHASE 3)

REVISIONS	
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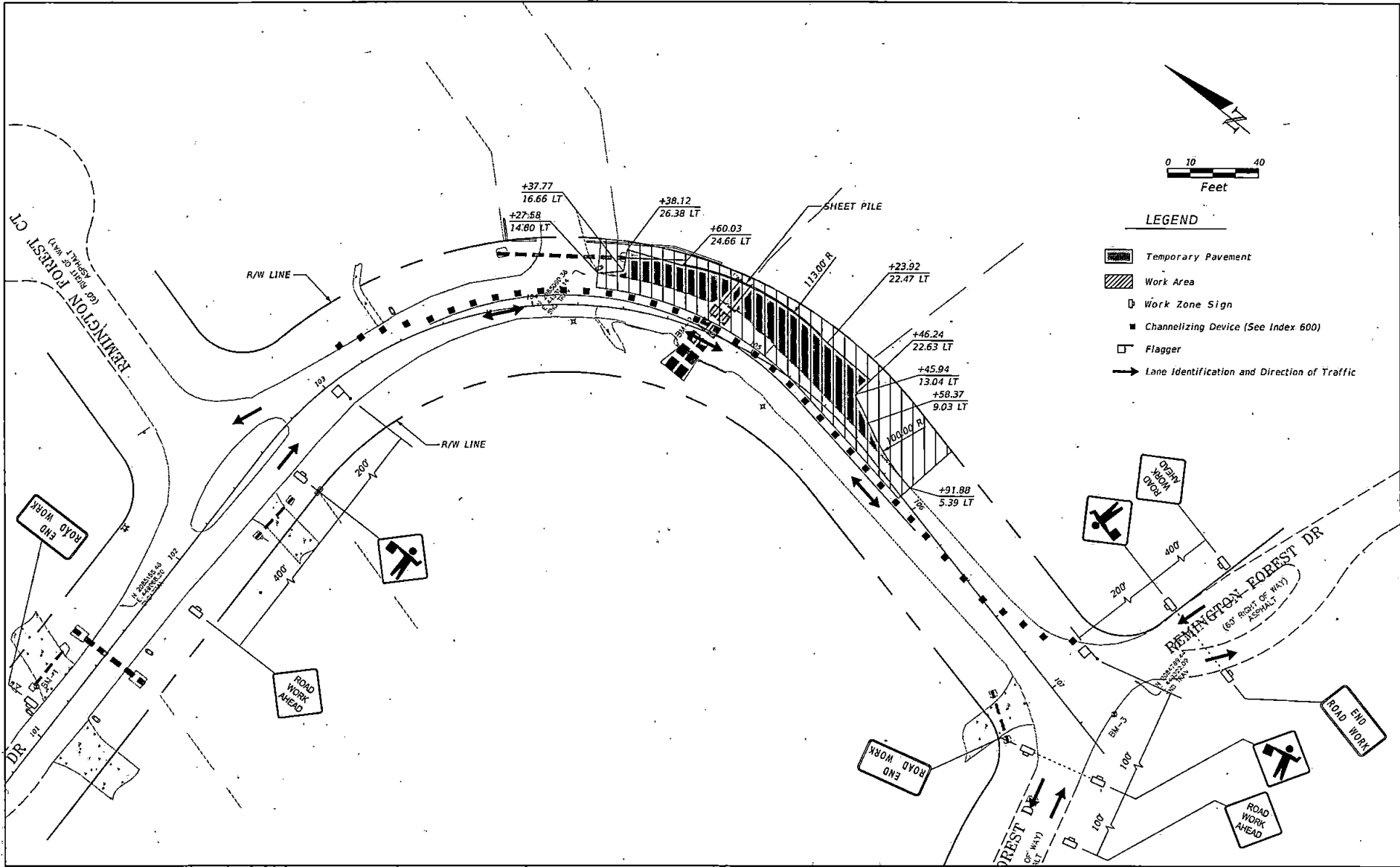
**ETM**  
 VISION • EXPERIENCE • RESULTS  
 MATTHEW S. MAGGIORE, P.E.  
 Lic. No. NUMBER 55371



ST. JOHNS COUNTY  
 ENGINEERING DEPARTMENT

REMINGTON FOREST DRIVE  
 TRAFFIC CONTROL

SHEET NO.  
 22



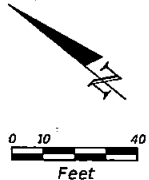
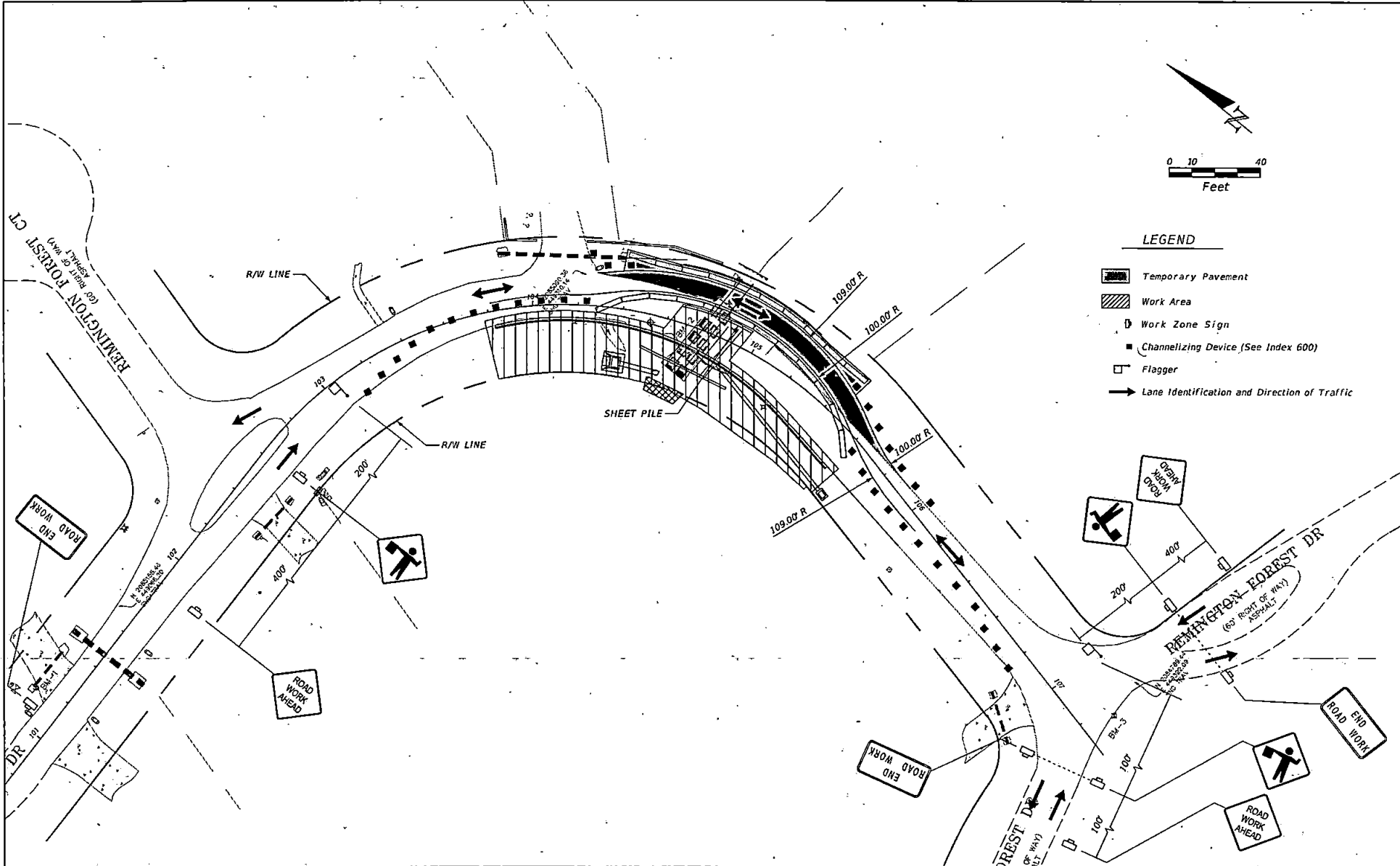
REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

**ETM**  
 ENGINEERING & TRAFFIC MANAGEMENT  
 1415 Chapin Avenue, Suite 100  
 Jacksonville, FL 32209  
 TEL: (904) 442-2200  
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 MATTHEW S. MAGGIORE, P.E. Lic. No. NUMBER 55371

**ST. JOHNS COUNTY**  
 ENGINEERING DEPARTMENT

**REMINGTON FOREST DRIVE**  
 TRAFFIC CONTROL-PHASE 1

SHEET NO.  
 23



**LEGEND**

- Temporary Pavement
- Work Area
- Work Zone Sign
- Channelizing Device (See Index 600)
- Flagger
- Lane Identification and Direction of Traffic

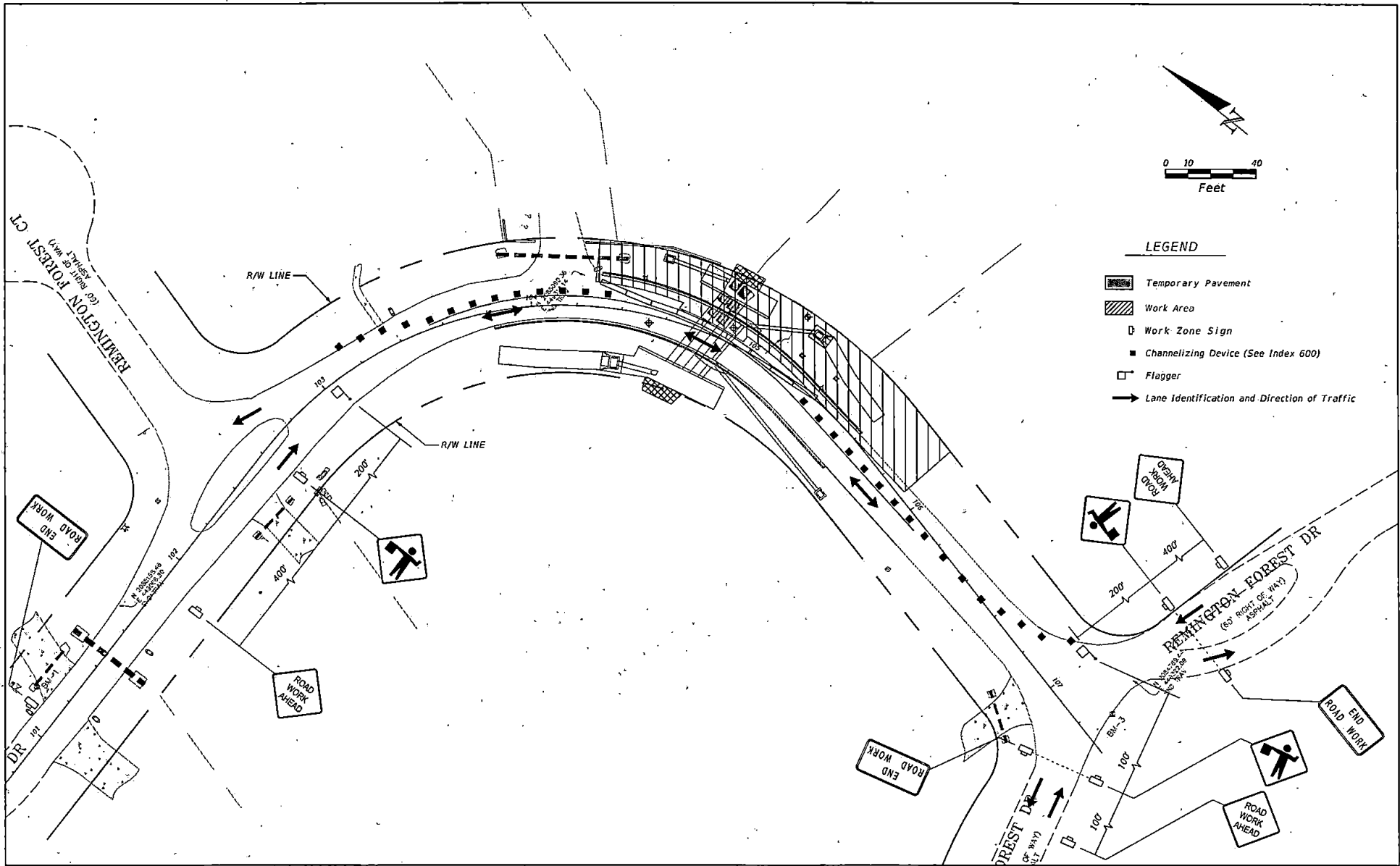
REVISIONS	
DATE	DESCRIPTION

**ETM**  
 ENGINEERING TRAFFIC MANAGEMENT  
 MATTHEW S. MAGGIORE, P.E.  
 Lic. No. NUMBER 55371

**ST. JOHNS COUNTY**  
 ENGINEERING DEPARTMENT

**REMINGTON FOREST DRIVE**  
**TRAFFIC CONTROL-PHASE 2**

SHEET NO.  
 24



- LEGEND**
- Temporary Pavement
  - Work Area
  - Work Zone Sign
  - Channelizing Device (See Index 600)
  - Flagger
  - Lane Identification and Direction of Traffic

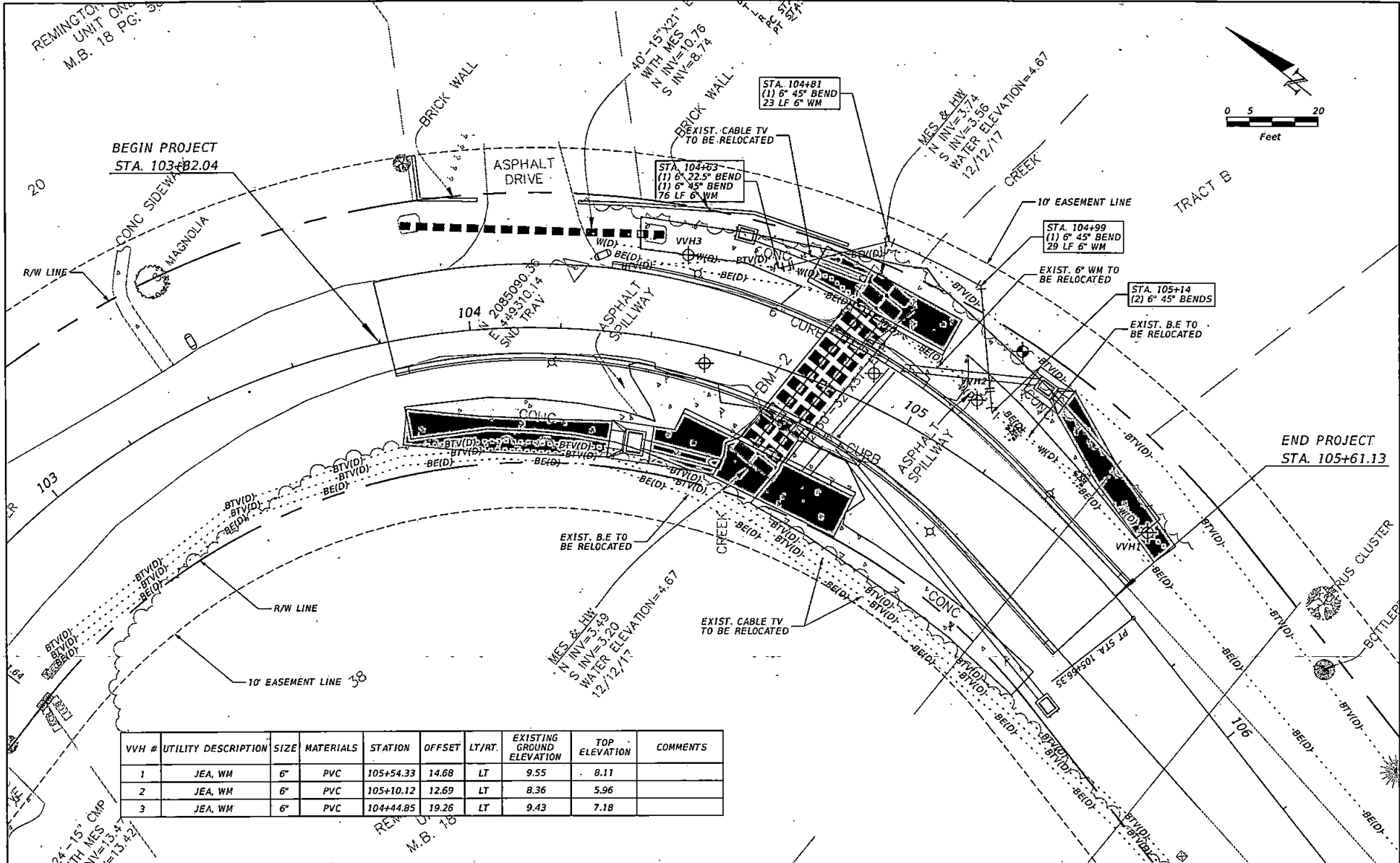
REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

**ETM**  
 ENGINEERING TRAFFIC MANAGEMENT  
 VISION • EXPERIENCE • REPUTATION  
 MATTHEW S. MAGGIORE, P.E. Lic. No. NUMBER 55371

**ST. JOHNS COUNTY**  
 ENGINEERING DEPARTMENT

**REMINGTON FOREST DRIVE**  
**TRAFFIC CONTROL-PHASE 3**

SHEET NO.  
 25



VVH #	UTILITY DESCRIPTION	SIZE	MATERIALS	STATION	OFFSET	LT/RT.	EXISTING GROUND ELEVATION	TOP ELEVATION	COMMENTS
1	JEA, WM	6"	PVC	105+54.33	14.68	LT	9.55	8.11	
2	JEA, WM	6"	PVC	105+10.12	12.69	LT	8.36	5.96	
3	JEA, WM	6"	PVC	104+44.85	19.26	LT	9.43	7.18	

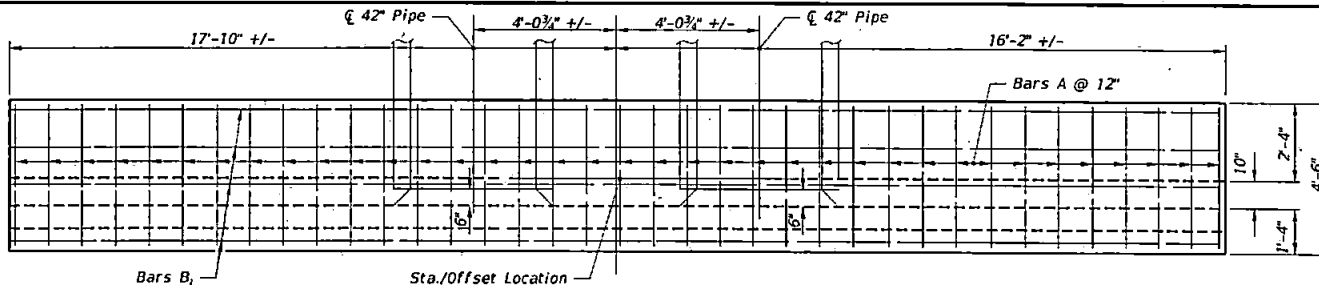
REVISIONS		
DATE	DESCRIPTION	DESCRIPTION

**ETM**  
 VISION • EXPERIENCE • RESULTS  
 Matthew S. Maggione, P.E.  
 Lic. No. NUMBER 55371

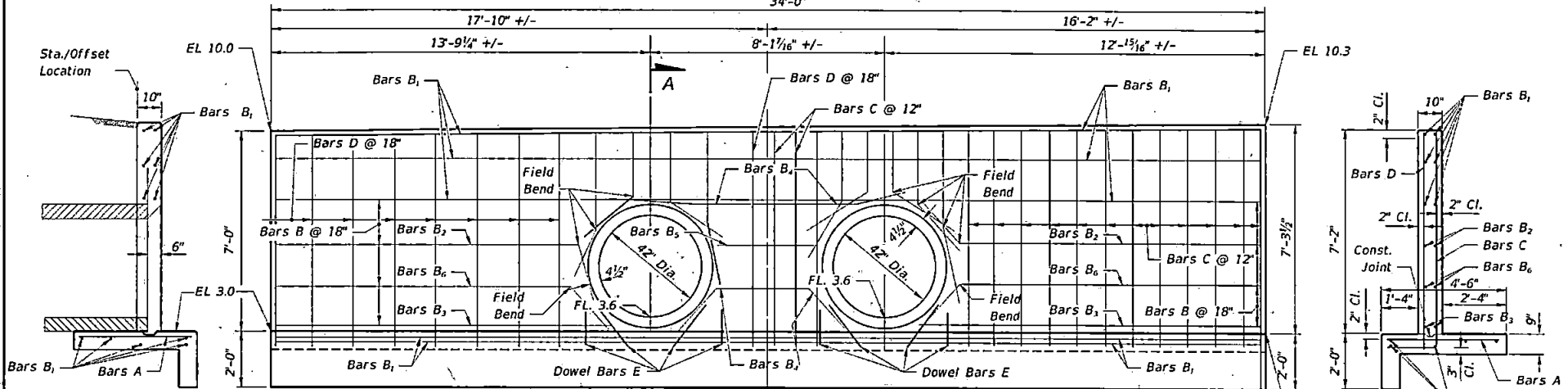
**ST. JOHNS COUNTY**  
 ENGINEERING DEPARTMENT

**REMINGTON FOREST DRIVE**  
 UTILITY ADJUSTMENTS

SHEET NO.  
 26



PLAN



HALF ELEVATION  
LOOKING WEST  
(Showing Bars In Front Face Of Wall)

HALF ELEVATION  
LOOKING WEST  
(Showing Bars In Back Face Of Wall)

TYPICAL SECTION  
THRU ENDWALL

BILL OF REINFORCING STEEL					
MARK	SIZE	NO. REQD.	LENGTH	LOCATION	BENDING
A	#4	35	4'-2"	Footings	Straight
B <sub>1</sub>	#4	11	33'-8"	Footings & Wall	Straight
B <sub>2</sub>	#4	4	13'-0"	Wall	Straight
B <sub>3</sub>	#4	4	12'-0"	Wall	Straight
B <sub>4</sub>	#4	4	9'-0"	Wall	Field Bend
B <sub>5</sub>	#4	2	3'-3"	Wall	Straight
B <sub>6</sub>	#4	4	13'-0"	Wall	Field Bend
C	#4	35	9'-3 1/2"	Footings & Wall	Bend
D	#4	23	7'-4" to 7'-7 1/2"	Footings & Wall	Straight
E	#4	16	1'-8"	Footings & Wall	Straight

BENDING DIAGRAM		
VARIES 7'-4" to 7'-7 1/2"		
NOTE: All bar dimensions are out to out		
ESTIMATED QUANTITIES		
ITEM	UNIT	
Class II Concrete	Cu. Yd.	11.2
Reinforcing Steel	Lb.	825

- NOTES:
1. Reinforcing steel shall be either Grade 60.
  2. Concrete shall be Class II.
  3. Chamfer: All exposed edges and corners to be chamfered 3/8" unless otherwise shown.
  4. See Roadway Sheet 7 for Wall Alignment information.

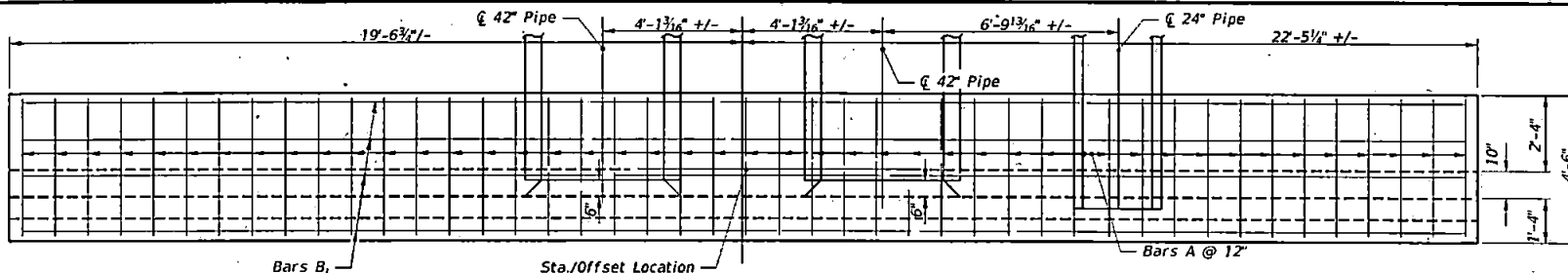
WALL 1  
LOOKING WEST

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

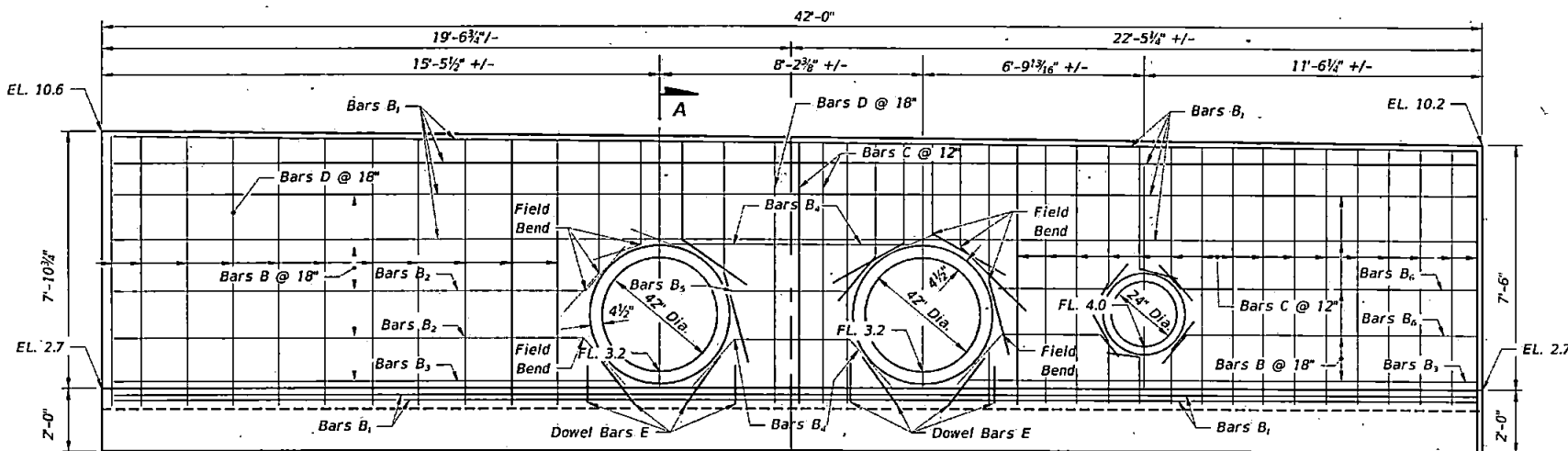


ST. JOHNS COUNTY  
ENGINEERING DEPARTMENT

REMINGTON FOREST DRIVE  
END WALL DETAILS



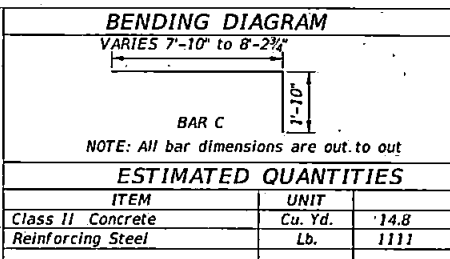
PLAN



HALF ELEVATION  
LOOKING EAST  
(Showing Bars In Front Face Of Wall)

HALF ELEVATION  
LOOKING EAST  
(Showing Bars In Back Face Of Wall)

BILL OF REINFORCING STEEL					
MARK	SIZE	NO. REQD.	LENGTH	LOCATION	BENDING
A	#4	43	4'-2"	Footings	Straight
B <sub>1</sub>	#4	13	41'-8"	Footings & Wall	Straight
B <sub>2</sub>	#4	4	18'-0"	Wall	Field Bend
B <sub>3</sub>	#4	4	17'-0"	Wall	Straight
B <sub>4</sub>	#4	8	9'-0"	Wall	Field Bend
B <sub>5</sub>	#4	2	3'-3"	Wall	Straight
B <sub>6</sub>	#4	4	10'-0"	Wall	Field Bend
C	#4	43	9'-10 3/8"	Footings & Wall	Bend
D	#4	29	7'-10" to 8'-2 3/8"	Footings & Wall	Straight
E	#4	16	1'-8"	Footings & Wall	Straight



NOTES:

1. Reinforcing steel shall be either Grade 60.
2. Concrete shall be Class II.
3. Chamfer: All exposed edges and corners to be chamfered 3/8" unless otherwise shown.
4. For Sections see Wall 1 Details
5. See Roadway Sheet 7 for Wall Alignment information.

WALL 2  
LOOKING EAST

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION



ST. JOHNS COUNTY  
ENGINEERING DEPARTMENT

REMINGTON FOREST DRIVE  
END WALL DETAILS





**St. Johns County Board of County Commissioners**

Purchasing Division

December 20, 2018

**ADDENDUM #1**

**To: Prospective Bidders**  
**From: St. Johns County Purchasing Department**  
**Subject: BID No. 19-27; Remington Forest Drive Drainage Improvements**

This Addendum #1 is issued for further respondent's information and is hereby incorporated into the Bid documents. Each respondent will ascertain before submitting a proposal that he/she has received all Addenda, and return one (1) original and two (2) copies of this signed Addendum with the submitted bid proposal to the St. Johns County Purchasing Department, Diana M. Fye, AS, CPPB; Procurement Coordinator, 500 San Sebastian View; St. Augustine, FL 32084.

**A. REVISION TO CONSTRUCTION PLANS**

Sheets No. 26 and No. 27 (showing JEA directional drill and the water relocation) of the Construction Plans for this project have been revised and are attached.

**B. QUESTIONS:**

1. Regarding the Subject project, is there an engineer's estimate, or budget?

**Answer: The budget is \$256,915.00.**

**THE BID DUE DATE REMAINS January 16, 2019 AT 2:00 P.M.**

**Acknowledgment**

**Sincerely,**

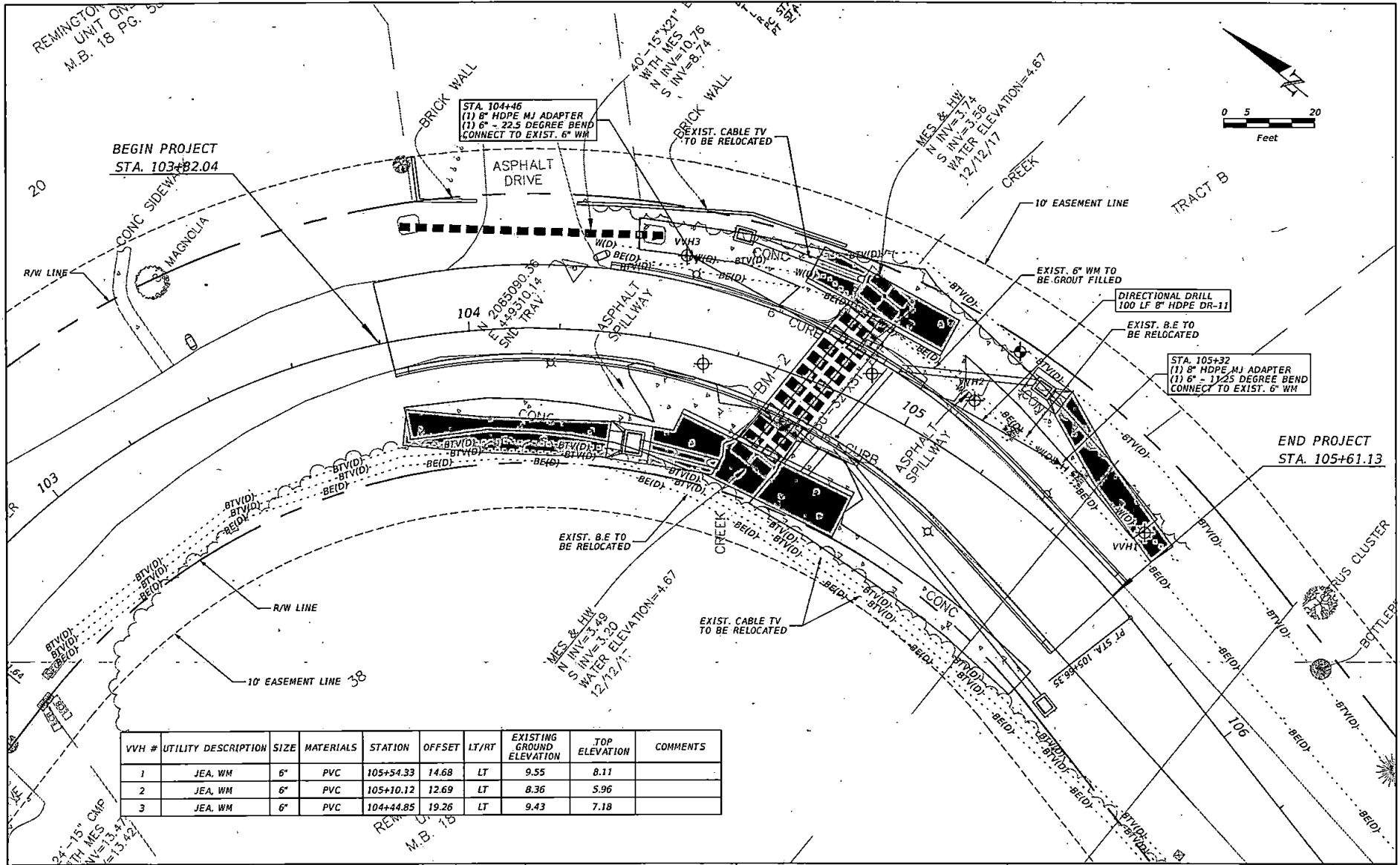
\_\_\_\_\_  
Signature and Date

Diana M. Fye, AS, CPPB  
Procurement Coordinator

\_\_\_\_\_  
Printed Name/Title

\_\_\_\_\_  
Company Name (Print)

**END OF ADDENDUM NO. 1**



VWH #	UTILITY DESCRIPTION	SIZE	MATERIALS	STATION	OFFSET	LT/RT	EXISTING GROUND ELEVATION	TOP ELEVATION	COMMENTS
1	JEA, WM	6"	PVC	105+54.33	14.68	LT	9.55	8.11	
2	JEA, WM	6"	PVC	105+10.12	12.69	LT	8.36	5.96	
3	JEA, WM	6"	PVC	104+44.85	19.26	LT	9.43	7.18	

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

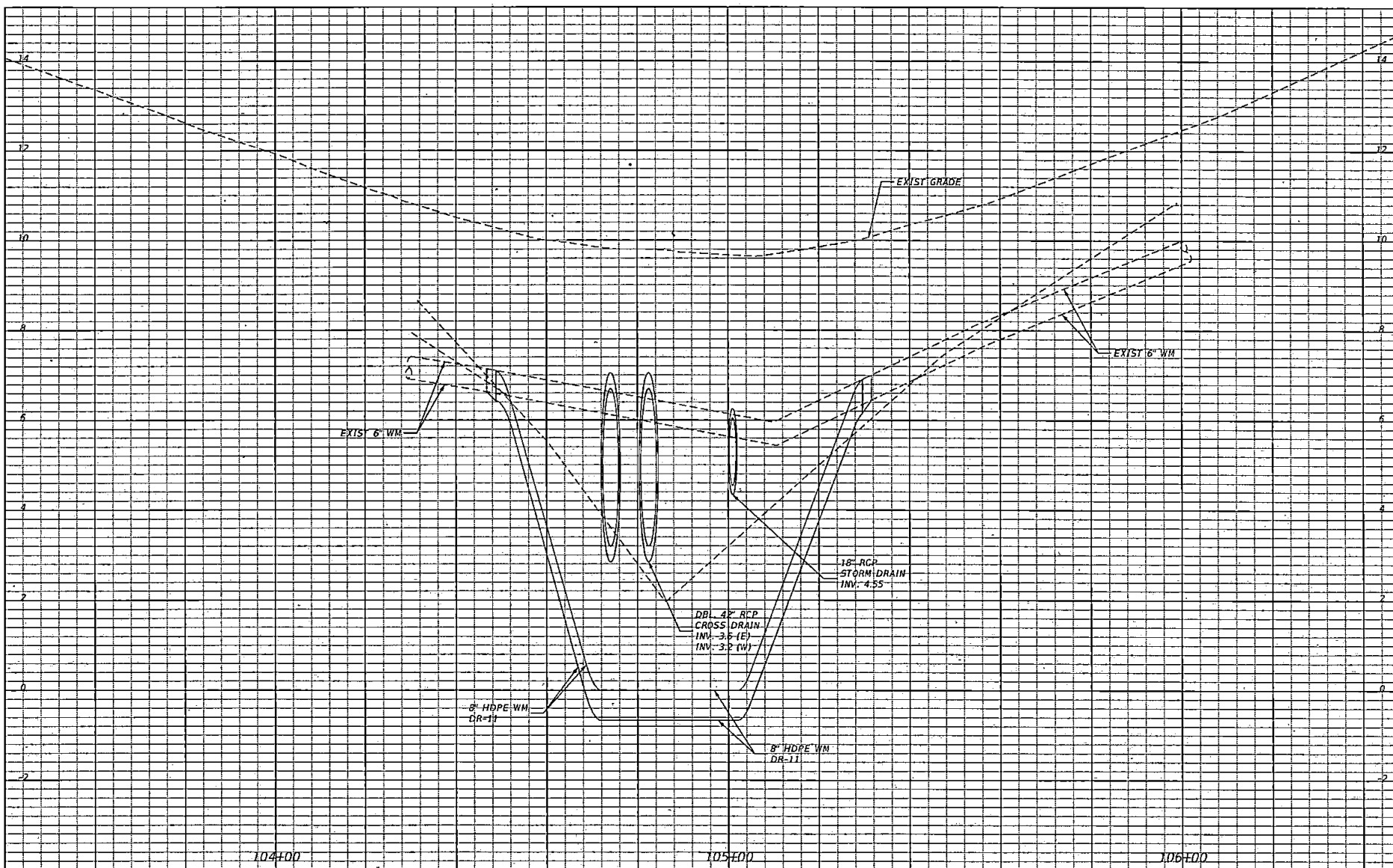
**ETM**  
 ENGINEERING & DESIGN  
 MATTHEW S. MAGGIORE, P.E.  
 Lic. No. NUMBER 55371



ST. JOHNS COUNTY  
 ENGINEERING DEPARTMENT

REMINGTON FOREST DRIVE  
 UTILITY ADJUSTMENTS

SHEET NO.  
 26



REVISIONS		REVISIONS	
DATE	DESCRIPTION	DATE	DESCRIPTION

**ETM**  
 ENGINEERING & TECHNICAL MANAGEMENT, INC.  
 1475 Old St. Augustine Road  
 St. Johns County, FL 32086  
 TEL: (904) 812-2222  
 FAX: (904) 812-2222  
 CA - 00022081 LC - 0000118  
 Lic. No. NUMBER 55371

**ST. JOHNS COUNTY**  
 ENGINEERING DEPARTMENT

**REMINGTON FOREST DRIVE**  
 UTILITY ADJUSTMENTS

SHEET NO.  
27



## St. Johns County Board of County Commissioners

Purchasing Division

January 9, 2019

### ADDENDUM #2

**To:** Prospective Bidders  
**From:** St. Johns County Purchasing Department  
**Subject:** BID No. 19-27; Remington Forest Drive Drainage Improvements

This Addendum #2 is issued for further respondent's information and is hereby incorporated into the Bid documents. Each respondent will ascertain before submitting a proposal that he/she has received all Addenda, and **return one (1) original and two (2) copies of this signed Addendum with the submitted bid proposal to the St. Johns County Purchasing Department, Diana M. Fye, AS, CPPB; Procurement Coordinator, 500 San Sebastian View; St. Augustine, FL 32084.**

#### A. QUESTIONS:

1. How is the Contractor to provide 2-Way traffic during non-working hours? Your maintenance of traffic plan shows 1 lane during normal working hours.  
**Answer: The Contractor shall be required to provide flaggers during working and non-working hours for Management of Traffic (MOT) when the pavement is necked down to one lane.**
2. Will buried electrical be relocated by others or the contractor? If by the contractor, please give a detailed description of the existing buried electrical and proposed buried electrical.  
**Answer: The buried electrical will be relocated by FPL. The Contractor shall coordinate his work with FPL as needed.**
3. Will JEA construct the 8" water main directional drill with connections to existing, or is this work to be performed by the contractor?  
**Answer: The water main relocation work is to be completed by the Contractor.**
4. If the water main scope of work is to be performed by the contractor, what are the time restrictions the water may be shut down for the connection to the new directional drilled water main?  
**Answer: Water shutdown will be between 9 PM and 5 AM.**
5. If the water main scope of work is to be performed by the contractor, will the contractor be required to provide temporary water during the shutdown?  
**Answer: Temporary water will not be required but the shutdown will have to be coordinated with JEA personnel.**

6. Will all cable TV be relocated by others prior to the start of work?

**Answer: Cable TV will be relocated by others. The Contractor shall coordinate his work with the Cable utility company as needed.**

7. Since the proposed maintenance of traffic is limited to one lane, are the drivers expected to stop and wait on who they believe has the right of way, or will any additional signage be added to the plan (possibly a Vehicle Message Board (VMB))? A lack of direction may create traffic conflicts.

**Answer: See Answer to Question #1 above.**

8. The traffic control plans indicate 2 phases of work will have one lane road with flaggers. Only a 9' wide road is shown. The work will last for far longer than one day. Please advise how the night time operations of the one lane road will be coordinated. Will the flaggers be there 24 hr/ 7 days. Will a remote/automated traffic signal be required? The plan needs more explanation for the night time operations.

**Answer: See Answer to Question #1 above.**

9. Will the contractor be required to bypass the storm drain flow? There is no guidance in the specifications for the bypassing.

**Answer: The contractor is required to maintain existing drainage patterns throughout the duration of the construction.**

10. Please clarify who pays for testing.

**Answer: The Scope of Work within the project specifications requires that the Contractor contract with an independent testing laboratory to perform material testing and soil testing in accordance with County requirements.**

11. Please clarify what are the testing requirements. How often/far apart are the tests.

**Answer: Please refer to the St. Johns County Land Development Procedures Manual for testing requirements at the following link:**  
<http://www.sjcfi.us/LongRangePlanning/media/LDC/ArticleVI.pdf>

12. We believe with the scope and phasing that 120 days is not enough time. Please allow for extending the contract time to 180 days.

**Answer: Time extensions can be discussed, if necessary, as construction progresses.**

13. Is imported pipe bedding required for the SD?

**Answer: Please see attached Geotechnical Report (Exhibit "A") for culvert bedding requirements.**

14. Please allow an allowance for unsuitable soils.

**Answer: Please refer to attached Geotechnical Report (Exhibit "A") to estimate any unsuitable quantities.**

**THE BID DUE DATE REMAINS January 16, 2019 AT 2:00 P.M.**

**Acknowledgment**

**Sincerely,**

\_\_\_\_\_  
Signature and Date

Diana M. Fye, AS, CPPB  
Procurement Coordinator

\_\_\_\_\_  
Printed Name/Title

\_\_\_\_\_  
Company Name (Print)

**END OF ADDENDUM NO. 2**

**Report of Geotechnical Exploration**

For

**Remington Forest Drive Cross Drain  
Jacksonville, Florida**

*MAE Project No. 0006-0028*

*May 2, 2018*

Prepared for:



England-Thims & Miller, Inc.

VISION • EXPERIENCE • RESULTS

*England-Thims & Miller, Inc.  
14775 Old St. Augustine Road  
Jacksonville, Florida 32258*

Prepared by:



Meskel & Associates Engineering  
Geotechnical • Environmental • Inspection • Testing

8936 Western Way, Suite 12  
Jacksonville, Florida 32256  
Phone (904) 519-6990  
Fax (904) 519-6992

May 2, 2018

Mr. Matt Maggiore, P.E.  
England-Thims & Miller, Inc.  
14775 Old St. Augustine Road  
Jacksonville, Florida 32258

Reference: Report of Geotechnical Exploration  
Remington Forest Drive Cross Drain  
Fruit Cove, St. Johns County, Florida  
MAE Project No. 0006-0028

Dear Mr. Maggiore:

**Meskel & Associates Engineering, PLLC (MAE)** has completed a geotechnical exploration for the subject project. Our work was performed in general accordance with our proposal dated December 12, 2017. The geotechnical exploration was performed to evaluate the general subsurface conditions at the existing dual cross drain culvert crossing, and to provide recommendations for foundation support and design and site preparation for the new culverts.

As further discussed in this report, the soil boring located adjacent to the existing culverts encountered a 6-inch topsoil layer, underlain by very loose to medium dense fine sand (SP), fine sand with silt (SP-SM) and silty fine sand (SM) to the boring termination depth of 10 feet below existing grade. The soil borings located along the existing roadway encountered a surficial pavement structure (2 inches of asphalt and 7 inches of limerock base), underlain by fine sand (A-3) to the boring termination depths of 6 feet below existing grade. As an exception, pavement boring C-1 encountered sands containing little amounts of organic fines between 5 to 6 feet below the existing grade. Groundwater was encountered at depths ranging from 1 foot 3 inches to 5 feet 4 inches below the existing ground surface.

Based on our findings, it is our opinion that the encountered soil conditions are suitable for support of the proposed dual 42-inch diameter concrete pipes provided the construction and earthwork recommendations provided in this report are followed.

We appreciate this opportunity to be of service as your geotechnical consultant on this phase of the project. If you have any questions, or if we may be of any further service, please contact us.

Sincerely,

**MESKEL & ASSOCIATES ENGINEERING, PLLC**  
MAE FL Certificate of Authorization No. 28142

**Philip R Mank** Digitally signed by Philip R Mank  
Date: 2018.05.02 17:30:34 -04'00'

---

W. Josh Mele, E.I.  
Staff Engineer

---

P. Rodney Mank, P.E.  
Principal Engineer  
Licensed, Florida No. 41986

Distribution: Mr. Matt Maggiore, P.E. – England-Thims & Miller, Inc. 1 pdf

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**FIGURES**

- Figure 1. Site Location Map
- Figure 2. Boring Location Plan
- Figure 3. Generalized Soil Profiles

**APPENDICES**

- Appendix A. Soil Boring Logs
  - Field Exploration Procedures
  - Keys to Boring Logs
  - Keys to Soil Classifications
- Appendix B. Summary of Laboratory Test Results
  - Laboratory Test Procedures
- Appendix C. Pavement Core Photographs

## 1.0 PROJECT INFORMATION

### 1.1 General

Project information was provided to us by Mr. Matt Maggiore, P.E. with England-Thims & Miller, Inc. (ETM). We were provided with a copy of an aerial plan titled Remington Forest Stormwater Drainage with a notation that showed the project site location.

### 1.2 Project Description

The project site is located at the existing cross drain on Remington Forest Drive between Remington Forest Court and Black Forest Drive in Fruit Cove, St. Johns County, Florida. The general site location is shown on Figure 1.

Based on the provided information and our discussions with Mr. Maggiore, it is our understanding the project includes replacing the existing dual 30-inch diameter corrugated metal pipes with dual 42-inch diameter reinforced concrete pipes. The existing asphalt surface roadway will be rebuilt with a similar pavement structure. Grading plans were not provided; however, we understand that the proposed cross drain replacement will have the same pipe invert elevation as the existing pipes (approximately EL. +3), and that the roadway reconstruction will match the current roadway surface elevation (approximately EL. +10) at the existing crossing.

## 2.0 FIELD EXPLORATION

A field exploration was performed on January 30, 2018. Using the aerial plan we received from you, we determined GPS coordinates for the proposed boring locations from Google Earth. Prior to starting our field exploration, a utility locate request was submitted to the Sunshine State One-Call Center. Once the site utilities were located and marked, our field crew mobilized to the site. The attached *Boring Location Plan*, Figure 2, is a copy of the Google Earth image showing the approximate boring locations.

### 2.1 SPT and Auger Borings

To explore the subsurface conditions adjacent to the existing cross drain, we located and performed one Standard Penetration Test (SPT) boring, drilled to a depth of approximately 10 feet below the existing ground surface, in general accordance with the methodology outlined in ASTM D 1586. The boring was initially advanced using a hand-held bucket auger to a depth of 4 feet below existing grade to avoid potential utility conflicts. The hand auger portion of the boring was performed in general accordance with the methodology outlined in ASTM D 1452. In addition, a hand-held static cone penetrometer was used to estimate the relative density of the soil encountered in the upper 4-feet of the boring location. The boring was then continued as an SPT boring to a depth of approximately 10 feet below the existing ground surface. Split- spoon soil samples recovered during performance of the borings were visually described in the field and representative portions of the samples were transported to our laboratory for testing and further evaluation.

To determine the subsurface conditions below the existing roadway pavement at the existing cross drain culvert crossing, we located and performed 2 auger borings, advanced to depths of approximately 6 feet below the existing pavement surface in general accordance with the methodology outlined in ASTM D 1452. Representative soil samples were recovered from the auger borings and returned to our laboratory

for further testing and evaluation. A summary of the field procedures is included in Appendix A.

## 2.2 Pavement Cores

Two core samples of the existing pavement structure (asphalt surface and base course) were obtained. Each core location was drilled using a 4-inch diameter diamond coated core barrel connected to free standing mechanical drill equipment. Water was used during core sampling to cool the core barrel and to limit dust and debris generated from the coring process. The pavement layers (asphalt and base courses) were measured in the field by the field crew, and the recovered asphalt surface core samples were transported to our laboratory. Once the cores were complete, the holes were backfilled with an asphalt cold-patch material in compacted lifts. Photographs of the recovered asphalt core samples are included in Appendix C.

## 3.0 LABORATORY TESTING

Representative soil samples obtained from the SPT boring were packaged and transferred to our laboratory for classification using the Unified Soil Classification System (USCS) in accordance with ASTM D 2488. The soil samples from the hand auger borings located on the existing pavement were classified using the AASHTO Soil Classification System in general accordance with ASTM D 3282. The resulting soil descriptions are shown on the *Generalized Soil Profiles* on Figure 3.

Quantitative laboratory testing was performed on selected samples of the soils encountered during the field exploration to better define their composition and to provide data for correlation to their anticipated strength and compressibility characteristics. The laboratory testing determined the natural moisture content, the percent of material passing the U.S. No. 200 sieve (percent fines), and the organic content of selected soil samples. The results of the laboratory testing are shown in the *Summary of Laboratory Test Results* included in Appendix B. Also, these results are shown on the *Generalized Soil Profiles* on Figure 3 and on the *Log of Boring* records at the respective depths from which the tested samples were recovered. A summary of the laboratory test procedures is included in Appendix B.

## 4.0 GENERAL SUBSURFACE CONDITIONS

### 4.1 General Soil Profile

Graphical presentation of the generalized subsurface conditions is presented on the *General Soil Profiles*, Figure 3. Detailed boring logs are included in Appendix A. When reviewing the profiles and boring logs, it should be understood that the soil conditions will vary between the boring locations.

#### 4.1.1 Cross Drain Culvert Boring

The SPT boring (B-1) encountered a surficial topsoil layer approximately 6 inches thick, underlain by very loose to loose fine sand with silt (SP-SM) containing trace to few amounts of organic fines to a depth of about 4 feet, followed by a layer of loose silty fine sand (SM) containing few amounts of gravel sized rock fragments to a depth of about 6 feet, and then loose to medium dense fine sand with silt (SP-SM) to the boring termination depth of 10 feet below the existing ground surface.

#### 4.1.2 Pavement Borings

The hand auger borings located on the existing pavement (C-1 and C-2) encountered a surficial pavement

structure (2-inch asphalt surface underlain by 7 inches of a limerock base course), followed by fine sand (A-3) with trace amounts of silt to their termination depths of 6 feet below the existing pavement grade. As an exception, boring C-1 encountered fine sand with little amounts of organic fines between the depths of 5 to 6 feet below the existing pavement surface.

#### 4.2 Groundwater Level

The groundwater level was encountered at each of the boring locations and recorded at the time of drilling. At the SPT (B-1) location, groundwater was measured at a depth of approximately 1 foot 3 inches below the existing ground surface. At the pavement boring locations (C-1 and C-2), groundwater was measured at depths of 4 feet 7 inches and 5 feet 4 inches, respectively, below the pavement surface (approximately EL. +10). It should be anticipated that the groundwater levels will fluctuate seasonally and with changes in climate. As such, we recommend that the water table be measured prior to construction. Measured groundwater levels are shown on the *Generalized Soil Profiles* (Figure 3), and on the soil boring logs.

#### 4.3 Review of the USDA Web Soil Survey Map

The results of a review of the USDA Soil Survey Conservation Service (SSCS) Web Soil Survey of St Johns County are shown in the table below. There are two predominant soil map units at the project site: Tavares fine sand and Samsula muck. The soil drainage class, hydrological group, and estimated seasonal high groundwater levels reported in the Soil Survey are as follows:

Map Unit Symbol	Map Unit Name	Drainage Class	Hydrologic Group	Depth to the Water Table <sup>(1)</sup> (inches)
6	Tavares fine sand, 0 to 5 percent slopes	Moderately Well Drained	A	42 to 72
26	Samsula muck, frequently ponded, 0 to 1 percent slopes	Very Poorly Drained	A/D	0 to 6

<sup>(1)</sup>The "Water table" above refers to a saturated zone in the soil which occurs during specified months, typically the summer wet season. Estimates of the upper limit shown in the Web Soil Survey are based mainly on observations of the water table at selected sites and on evidence of a saturated zone, namely grayish colors (redoximorphic features) in the soil. A saturated zone that lasts for less than a month is not considered a water table.

#### 4.4 Seasonal High Groundwater Level

In estimating seasonal high groundwater level, a number of factors are taken into consideration including antecedent rainfall, soil redoximorphic features (i.e., soil mottling), stratigraphy (including presence of hydraulically restrictive layers), vegetative indicators, effects of development, and relief points such as drainage ditches, low-lying areas, etc.

Based on our interpretation of the current site conditions, including the boring logs and review of published data, we estimate the seasonal high groundwater levels at the site to be generally 1 to 2 feet above the water levels measured at the time of our field work.

It is possible that higher groundwater levels may exceed the estimated seasonal high groundwater level

as a result of significant or prolonged rains. Therefore, we recommend that design drawings and specifications account for the possibility of groundwater level variations, and construction planning should be based on the assumption that such variations will occur.

#### 4.5 Pavement Core Samples

The pavement layers (asphalt and base) as encountered at the core locations were measured in the field. The recovered asphalt core samples were returned to our laboratory to verify the thickness of the asphalt layers as measured in the field, and to observe the overall condition of the asphalt samples. The measured asphalt and base thicknesses at each of the described core locations are shown in the table below:

Core No.	GPS Coordinates:		Asphalt Thickness (in.)	Limerock Base Thickness (in.)
	Longitude and Latitude			
C-1	81°39'13.90" W	30°04'57.00" N	2	7
C-2	81°39'14.15" W	30°04'02.87" N	2	7

Based on our observations, descriptions of the obtained asphalt layer core samples are as follows:

Core No.	Comments
C-1	Core appears to consist of two distinct layers of asphalt. Both layers measured at approximately 1 inch each and contained fine to coarse aggregate. No cracks were observed at the top, bottom and sides of the core.
C-2	Core appears to consist of two distinct layers of asphalt. Both layers measured at approximately 1 inch each and contained fine to coarse aggregate. No cracks were observed at the top, bottom and sides of the core.

A base material was encountered below the asphalt surface course that appeared to be a commercially produced limerock material. The limerock material appeared to be relatively dry at the time of our exploration.

## 5.0 DESIGN RECOMMENDATIONS

### 5.1 General

The following evaluation and recommendations are based on the provided project information as presented in this report, results of the field exploration and laboratory testing performed, and the construction techniques recommended in Section 6.0 below. If the described project conditions are incorrect or changed after this report, or if subsurface conditions encountered during construction are different from those reported, then MAE should be notified so that these recommendations can be re-evaluated and revised, if necessary. We recommend that MAE be allowed to review the foundation plans and earthwork specifications to verify that the recommendations in this report have been properly interpreted and implemented.

## 5.2 Culvert Foundation Support Recommendations

Based on the results of the subsurface explorations, laboratory testing, and provided information, as included in this report, we consider the subsurface conditions at the site adaptable for supporting the planned culverts when constructed upon properly prepared subgrade soils. Provided the site is prepared in accordance with the recommendations presented in this report, the following parameters may be used for design of the planned culvert.

### 5.2.1 Bearing Pressure

The maximum allowable net soil bearing pressure for use in foundation design for the culvert should not exceed 2,000 psf. Net bearing pressure is defined as the soil bearing pressure at the foundation (bottom of pipe) bearing level in excess of the natural overburden pressure at that level. The foundations should be designed based on the maximum load that could be imposed by all loading conditions.

### 5.2.2 Bearing Material

The culvert foundation should bear on the compacted structural backfill or compacted native sandy soils. The bearing level soils, after compaction, should exhibit densities equivalent to 98 percent of the modified Proctor maximum dry density (AASHTO T 180), to a depth of at least one foot below the foundation (bottom of pipe) bearing levels.

We note that sands containing few to little amounts of organic fines were encountered at 2 boring locations. These soils were encountered beginning near the existing ground surface to a depth of about 2 feet at boring B-1 and between approximate depths of 5 and 6 feet below the existing pavement grade at boring C-1. We consider these soils unsuitable for use as pipe bedding or backfill material. If these soils are encountered within 2 feet of the pipe bearing elevation, they should be removed and replaced with suitable fill material as described in Section 6.4 of this report. In addition, these excavated soils should not be reused as backfill.

### 5.2.3 Settlement Estimates

Post-construction settlement of the culvert structure will be influenced by several interrelated factors, such as (1) subsurface stratification and strength compressibility characteristics; (2) culvert size, bearing levels, applied loads, and resulting bearing pressures beneath the culvert; and (3) site preparation and earthwork construction techniques used by the contractor. Any deviation from these recommendations could result in an increase in the estimated post construction settlements of the structure.

Due to the sandy nature of the surficial soils and granular nature of the recommended backfill soils, we expect the majority of settlement to occur in an elastic manner, relatively concurrent with loading. Using the recommended maximum bearing pressure, recommended in this report and the field and laboratory tests and site preparation techniques data that we have correlated to geotechnical strength and compressibility characteristics of the subsurface soils, we estimate that total settlement of the culvert could be on the order of one inch or less.

Differential settlements result from differences in applied bearing pressures and variations in the compressibility characteristics of the subsurface soils. Based on the recommended foundation design for the culvert and the site preparation and earthwork construction techniques outlined in Section 6.0, we estimate the differential settlement along the length of the culvert to be one-half inch or less.

Provided the site preparation and earthwork construction recommendations outlined in Section 6.0 of

this report are performed, the following parameters may be used for design.

#### 5.2.4 Lateral Earth Pressure Soil Parameters

In general, walls that have adjacent compacted fill will be subjected to lateral earth pressures. The wing walls for the cross drain culverts, assumed to not be restrained at the top and that sufficient movement is anticipated, will be subjected to active earth pressures. Surcharge effects for sloped backfill, point or area loads behind the walls, and adequate drainage provisions should be incorporated in the wall design. Passive resistance, resulting from footing embedment at the wall toe, could be neglected for safer design.

The following soil parameters can be used for the project where soils are placed adjacent to the culvert wing walls:

- Retained Soil Unit Weight, Saturated ( $\gamma_{sat}$ ) = 120 pcf
- Retained Soil Unit Weight, Moist ( $\gamma_m$ ) = 110 pcf
- Retained Soil Angle of Internal Friction ( $\phi$ ) = 30 degrees
- Coefficient of Active Earth Pressure,  $k_a$  = 0.33
- Coefficient of Passive Earth Pressure,  $k_p$  = 3.0
- Foundation Soil Unit Weight, Saturated ( $\gamma_{sat}$ ) = 125 pcf
- Foundation Soil Angle of Internal Friction ( $\phi$ ) = 30 degrees

The above parameters are based on clean sand backfill (SP) placed and compacted behind the walls as discussed in Section 6.4, and on compaction of the wall foundation soils as discussed in Section 6.3. A coefficient of friction for poured in-place concrete of 0.45 may be used in the wall design. The walls should be designed to include all temporary construction and permanent traffic and surcharge loads acting on the walls.

#### 5.2.5 Hydrostatic Uplift Resistance

It is anticipated that the buried structures will exert little or no net downward pressure on the soils, rather, the structures may be subject to hydrostatic uplift pressure when empty. Below grade structures should be designed to resist hydrostatic uplift pressures appropriate for their depth below existing grade and the normal seasonal high groundwater table. Hydrostatic uplift forces can be resisted in several ways including:

- Addition of dead weight to the structure.
- Mobilizing the dead weight of the soil surrounding the structure through extension of footings outside the perimeter of the structure.

A moist compacted soil unit weight of 110 lb/ft<sup>3</sup> may be used in designing structures to resist buoyancy.

## 6.0 SITE PREPARATION AND EARTHWORK RECOMMENDATIONS

Site preparation as outlined in this section should be performed to provide more uniform foundation bearing conditions, to reduce the potential for post-construction settlements of the planned structure.

### 6.1 Clearing and Stripping

Prior to construction, the location of existing underground utility lines within the construction area should

be established. Provisions should then be made to relocate interfering utilities to appropriate locations. It should be noted that, if underground pipes are not properly removed or plugged, they may serve as conduits for subsurface erosion, which may subsequently lead to excessive settlement of overlying structure.

The soil boring performed adjacent to the existing culvert encountered a topsoil layer approximately 6 inches thick. Therefore, it should be anticipated that up to about 6 inches of topsoil and soils containing significant amounts of organic materials may be encountered in this area. The actual depths of topsoil should be determined by MAE using visual observation and judgment during earthwork operations. These unsuitable materials should not be reused as backfill material within the planned culvert structure excavations. However, topsoil may be stockpiled and used subsequently in areas to be grassed.

## 6.2 Temporary Groundwater Control

The groundwater level was encountered at each of the boring locations and recorded at the time of our exploration. At the SPT (B-1) location, groundwater was measured at a depth of approximately 1 foot 3 inches below the existing ground surface (approximately EL. +3). At the pavement boring locations (C-1 and C-2), groundwater was measured at depths of 4 feet 7 inches and 5 feet 4 inches, respectively, below the pavement surface (approximately EL. +10). Because of the need for excavation to the bottom elevation of the pipe culverts, followed by compaction of the bedding and backfill soils, it may be necessary to install temporary groundwater control measures to dewater the area to facilitate the excavation and compaction processes.

The groundwater control measures should be determined by the contractor but can consist of sumps or wellpoints (or a combination of these or other methods) capable of lowering the groundwater level to at least 2 feet below the required depth of excavation. The dewatering system should not be decommissioned until excavation, compaction, and fill placement is complete, and sufficient deadweight exists on the culvert structure to prevent uplift.

Note that discharge of produced groundwater to surface waters of the state from dewatering operations or other site activities is regulated and requires a permit from the State of Florida Department of Environmental Protection (FDEP). This permit is termed a *Generic Permit for the Discharge of Produced Groundwater From Any Non-Contaminated Site Activity*. If discharge of produced groundwater is anticipated, we recommend sampling and testing of the groundwater early in the site design phase to prevent project delays during construction. MAE can provide the sampling, testing, and professional consulting required to evaluate compliance with the regulations.

## 6.3 Compaction

After completing the clearing and stripping operations and installing the temporary groundwater control measures (if required), the exposed surface area should be compacted with hand-held compaction equipment. Typically, the material should exhibit moisture contents within  $\pm 2$  percent of the modified Proctor optimum moisture content (ASTM D 1557) during the compaction operations. Compaction should continue until densities of at least 98 percent of the modified Proctor maximum dry density (ASTM D 1557) have been achieved within the upper 1 foot of the compacted natural soils at the site.

Should the bearing level soils experience pumping and soil strength loss during the compaction operations, compaction work should be immediately terminated. The disturbed soils should be removed and backfilled with dry structural fill soils, which are then compacted, or the excess moisture content within the disturbed soils should be allowed to dissipate before recompacting.



Care should be exercised to avoid damaging any nearby structures while the compaction operation is underway. Prior to commencing compaction, occupants of adjacent structures should be notified, and the existing conditions of the structures should be documented with photographs and survey (if deemed necessary). Compaction should cease if deemed detrimental to adjacent structures, and Meskel & Associates Engineering should be contacted immediately.

#### **6.4 Structural Backfill and Fill Soils**

Any structural backfill or fill required for site development should be placed in loose lifts not exceeding 6 inches in thickness and compacted by the use of hand-held compaction equipment.

Structural fill is defined as a non-plastic, inorganic, granular soil having less than 10 percent material passing the No. 200 mesh sieve and containing less than 4 percent organic material. The fine sand and slightly silty or clayey fine sand, without roots, as encountered in the borings, are suitable as fill materials and, with proper moisture control, should densify using conventional compaction methods. It should be noted that soils with more than 12 percent passing the No. 200 sieve will be more difficult to compact, due to their nature to retain soil moisture, and may require drying. Typically, the material should exhibit moisture contents within  $\pm 2$  percent of the modified Proctor optimum moisture content (ASTM D 1557) during the compaction operations. Compaction should continue until densities of at least 98 percent of the modified Proctor maximum dry density (ASTM D 1557) have been achieved within each lift of the compacted structural fill.

To avoid damage to the culvert wingwalls during the compaction process, heavy compaction equipment should not be used within 5 feet of the walls. Hand-held compaction equipment should be used in these areas. The fill material within 5 feet of the wall should be placed in thin lifts (6 inches or less) and compacted as discussed above. Excessive compaction should be avoided as it can result in overstressing of the walls.

We note that soils containing little amounts of organic fines were encountered at boring location C-1 between approximate depths of 5 and 6 feet below the existing grade. We consider these soils unsuitable for use as pipe bedding and/or backfill.

We recommend that material excavated from the cross drain trench that will be reused as backfill be stockpiled a safe distance from the excavation and in such a manner that promotes runoff away from the open trench and limits saturation of the materials.

#### **6.5 Pavement Areas**

After completing the clearing/stripping operations in the pavement areas, structural backfill and fill required to achieve the finish pavement grades then can be placed and compacted as described Section 6.4 above.

#### **6.6 Excavation Protection**

Excavation work for the culvert construction will be required to meet OSHA Excavation Standard Subpart P regulations for Type C Soils. The use of excavation support systems will be necessary where there is not sufficient space to allow the side slopes of the excavation to be laidback to at least 2H:1V (2 horizontal to 1 vertical) to provide a safe and stable working area and to facilitate adequate compaction along the sides of the excavation.

The method of excavation support should be determined by the contractor but can consist of a trench box, drilled-in soldier piles with lagging, interlocking steel sheeting or other methods. The support

structure should be designed according to OSHA sheeting and bracing requirements by a Florida registered Professional Engineer.

## 7.0 QUALITY CONTROL TESTING

A representative number of field in-place density tests should be made in the upper 2 feet of compacted natural soils, in each lift of compacted backfill and fill, and in the upper 12 inches below the bearing levels in the footing excavations. The density tests are considered necessary to verify that satisfactory compaction operations have been performed. We recommend density testing be performed at one location on each side of the planned culvert crossing, and one location within the area of the planned roadway reconstruction.

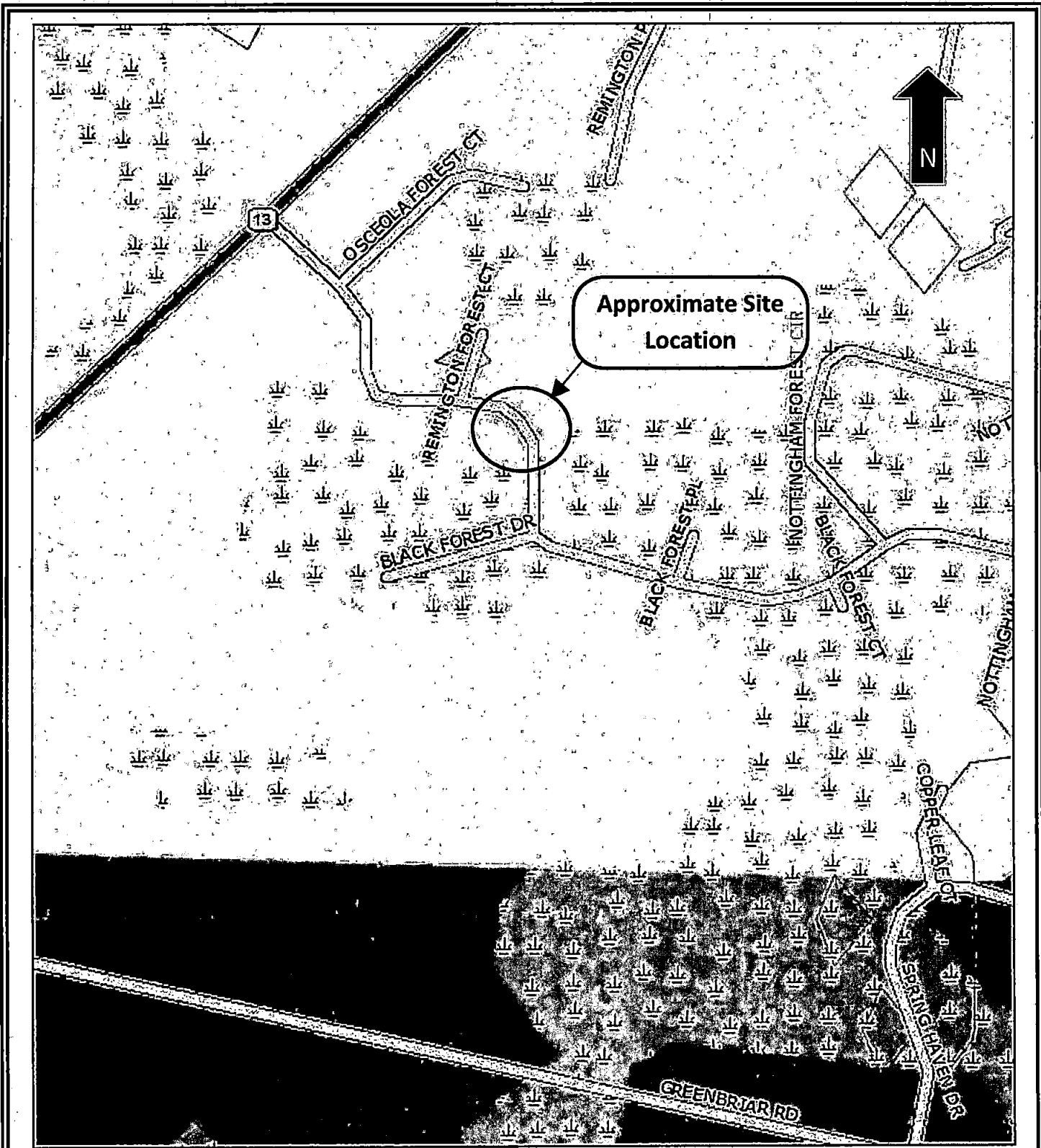
## 8.0 REPORT LIMITATIONS

This report has been prepared for the exclusive use of ETM, Inc. and their clients for specific application to the design and construction of the Remington Forest Drive Cross Drain project. An electronically signed and sealed version, and a version of our report that is signed and sealed in blue ink, may be considered an original of the report. Copies of an original should not be relied on unless specifically allowed by MAE in writing. Our work for this project was performed in accordance with generally accepted geotechnical engineering practice. No warranty, express or implied, is made.


The analyses and recommendations contained in this report are based on the data obtained from this project. This testing indicates subsurface conditions only at the specific locations and times, and only to the depths explored. These results do not reflect subsurface variations that may exist away from the boring locations and/or at depths below the boring termination depths. Subsurface conditions and water levels at other locations may differ from conditions occurring at the tested locations. In addition, it should be understood that the passage of time may result in a change in the conditions at the tested locations. If variations in subsurface conditions from those described in this report are observed during construction, the recommendations in this report must be re-evaluated.

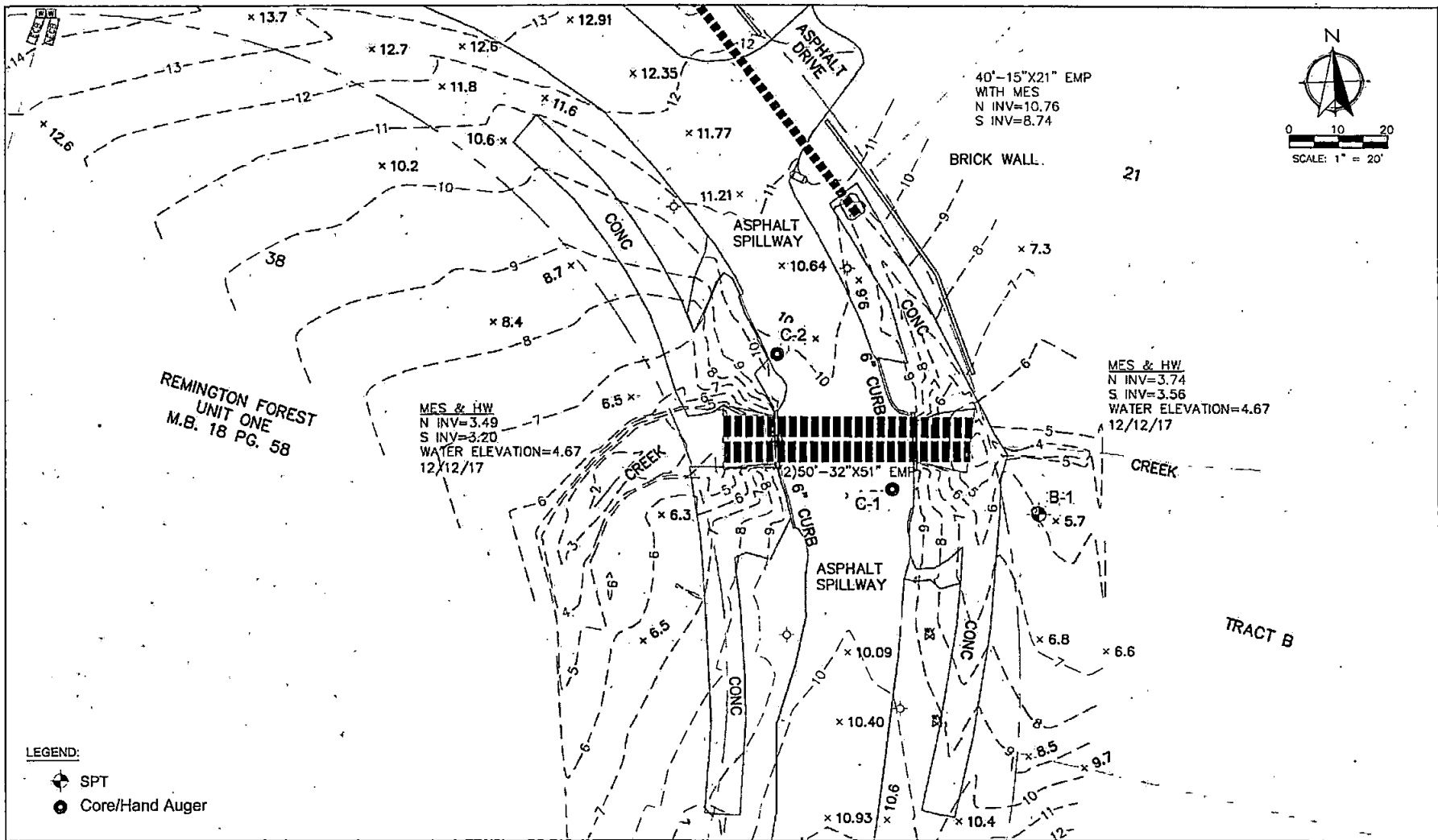
The scope of our services did not include any environmental assessment or testing for the presence or absence of hazardous or toxic materials in the soil, groundwater, or surface water within or beyond the subject site. Any statements made in this report, and/or notations made on the generalized soil profiles or boring logs, regarding odors or other potential environmental concerns are based on observations made during execution of our scope of services and as such are strictly for the information of our client. No opinion of any environmental concern of such observations is made or implied. Unless complete environmental information regarding the site is already available, an environmental assessment is recommended.

If changes in the design or location of the culvert structure occur, the conclusions and recommendations contained in this report may need to be modified. We recommend that these changes be provided to us for our consideration. MAE is not responsible for conclusions, interpretations, opinions or recommendations made by others based on the data contained in this report.



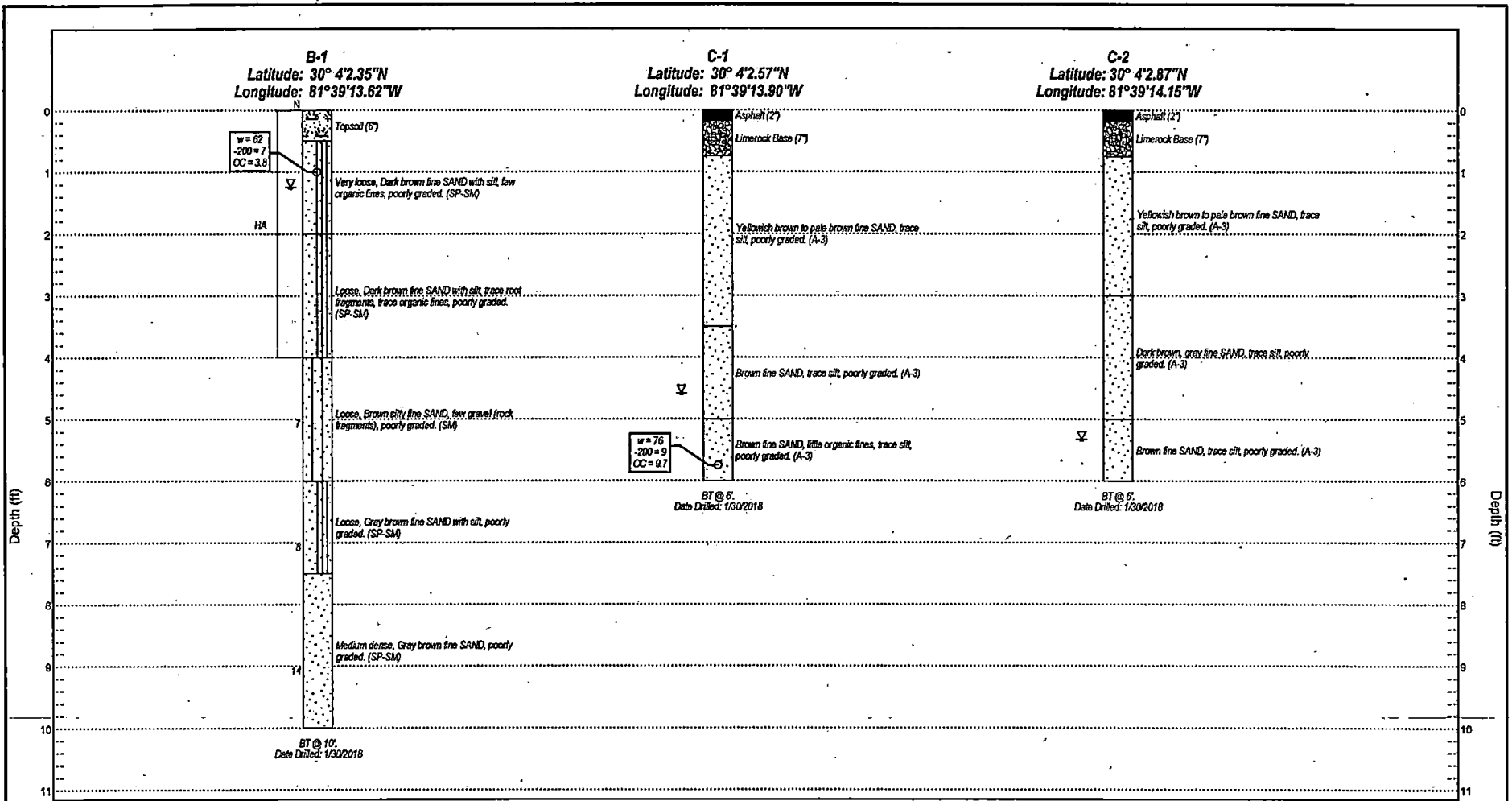
### Site Location Map

PREPARED BY	PROJECT NAME	
	<b>Remington Forest Drive Cross Drain St. Johns County, Florida</b>	
	REFERENCE Delorme XMap/7.0	SCALE NTS
PREPARED FOR <b>England-Thims &amp; Miller, Inc.</b>	MAE PROJECT NO. 0006-0028	FIGURE NO. 1



NOTE: Topographic Survey dated 2/27/2018 was provided by England-Thims & Miller, Inc.

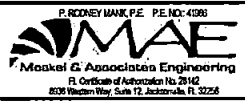
REVISIONS						<small>P. RODNEY MARK, P.E. P.E. NO. 41898</small>  <b>MAE</b> <small>Markel &amp; Associates Engineering, LLC</small> <small>FL Certificate of Authorization No. 28142</small> <small>8800 Western Way, Suite 12, Jacksonville, FL 32256</small>	CLIENT		SHEET TITLE	
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION		DATE	MAE PROJECT NO.	PROJECT NAME	FIGURE NO.
						England-Thims & Miller, Inc.	0006-0028	Remington Forest Drive Cross Drain St. Johns County, Florida	2	



**Legend**

- N Standard Penetration Resistance, Blows/Foot
- BT Boring Terminated at Depth Below Existing Grade
- (A-3) AASHTO Soil Classification System
- (SP) United Soil Classification System (USCS)
- ▽ Depth to Groundwater at Time of Drilling
- w Natural Moisture Content (%)
- 200 % Passing No. 200 U.S. Standard Sieve
- OC Organic Content (%)
- HA Boring Advanced by hand-held bucket auger to 4 ft. due to possible underground utilities. Static Cone Penetrometer used to measure relative density, values shown on boring logs.

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION



<b>England-Thims &amp; Miller, Inc.</b>	
DATE 4/27/2018	MAE PROJECT NO. 0006-0028

PROJECT TITLE <b>Generalized Soil Profiles</b>	FIGURE NO. <b>3</b>
PROJECT NAME <b>Remington Forest Drive Cross Drain St. Johns County, Florida</b>	

*Appendix A*

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**BORING B-1**

PAGE 1 OF 1

PROJECT NO. 0006-0028

PROJECT NAME Remington Forest Drive Cross Drain  
 PROJECT LOCATION St. Johns County, Florida CLIENT England-Thims & Miller, Inc.  
 DATE STARTED 1/30/18 COMPLETED 1/30/18 LATITUDE 30° 4'2.35"N LONGITUDE 81°39'13.62"W  
 DRILLING CONTRACTOR MAE, LLC DRILLING METHOD Portable Tri-Pod Drill Rig  
 LOGGED BY C.Morgan CHECKED BY P.R.Mank GROUND ELEVATION — HAMMER TYPE Safety

NEW MAE LOG AASTHO LAT. LONG - NEW TEMPLATE 7-30-12.GDT - 3/1/18 16:52 - F:\GINTGINT FILES\PROJECTS\0006-0028\REMINGTON FOREST.GPJ

DEPTH (ft)	SAMPLE DEPTH NUMBER	MATERIAL DESCRIPTION	USCS	GRAPHIC LOG	BLOW COUNTS	N-VALUE	MOISTURE CONTENT (%)	FINES CONTENT (%)	ORGANIC CONTENT (%)	LIQUID LIMIT	PLASTICITY INDEX	POCKET PEN. (tsf)	RECOVERY % (RCD)	REMARKS
0.0		Topsoil (6")												* Static Cone Penetrometer 0" - 6": 0 6" - 12": 5 12" - 18": 0 18" - 24": 0 24" - 30": 5 30" - 36": 5 36" - 42": 20 42" - 48": 0
	1	Very loose, Dark brown fine SAND with silt, few organic fines, poorly graded.	SP-SM		*		62	7	3.8					
2.5	2	Loose, Dark brown fine SAND with silt, trace root fragments, trace organic fines, poorly graded.	SP-SM											
5.0	3	Loose, Brown silty fine SAND, few gravel (rock fragments), poorly graded.	SM		1 1 6 4	7								
7.5	4	Loose, Gray brown fine SAND with silt, poorly graded.	SP-SM		2 2 6 8	8								
	5	Medium dense, Gray brown fine SAND, poorly graded.	SP-SM		5 8 6 7	14								
10.0		Bottom of borehole at 10 feet.												

NOTES Boring Advanced by hand-held bucket auger to 4 feet due to possible underground utilities. Static Cone Penetrometer was used to measure relative density.

GROUND WATER LEVELS

∇ AT TIME OF DRILLING 1 ft 3 in \* ∇ END OF DAY —

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**YROME GW**

PAGE 1 OF 1

HORJDGALR. 0006-0028

HORJDGALITD Remington Forest Drive Cross Drain  
 HORJDGAPRGIML St. Johns County, Florida GPMOLA England-Thims & Miller, Inc.  
 CIADBAIOADC 1/30/18 GRTHPDADC 1/30/18 PIMAVCD 30° 4'2.57"N PRLEMVCD 81°39'13.90"W  
 COMPMEGRLAOGARO MAE, LLC COMPMETDASRC Core/Hand Auger  
 PREEDCYK C.Morgan GSDGUDCYK P.R.Mank EORVLCDPD-1 AML SITTDOKHD

NEWMAE LOG AASTHO LAT\_LONG - NEW TEMPLATE 7-30-12.GDT - 2/1/18 16:51 - FIGINTGINT FILES\PROJECTS\0006-0028\REMINGTON FOREST.GPJ

DEPTH (ft)	SAMPLE DEPTH NUMBER	MATERIAL DESCRIPTION	AASHTO	GRAPHIC LOG	BLOW COUNTS	N-VALUE	MOISTURE CONTENT (%)	FINES CONTENT (%)	ORGANIC CONTENT (%)	LIQUID LIMIT	PLASTICITY INDEX	POCKET PEN. (tsf)	RECOVERY % (RQD)	REMARKS
0.0		Asphalt (2")												
		Limerock Base (7")												
1.0	1	Yellowish brown to pale brown fine SAND, trace silt, poorly graded.	A-3											
2.5														
4.0	2	Brown fine SAND, trace silt, poorly graded.	A-3											
5.0														
6.0	3	Brown fine SAND, little organic fines, trace silt, poorly graded.	A-3				76	9	9.7					
6.0		Bottom of borehole at 6 feet.												

LRADB \_\_\_\_\_

EORVLC F I ADO PD- DPB

∇ I A A W D R N C O M P M E 4 ft 7 in \* ∇ D L C R N C I K \_\_\_\_\_



Meskel & Associates Engineering, LLC  
 4 neldohimr n9Jlpr dzhllrb Sr d2/ 1E2  
 / R3. ' mAmob' h, Df Jllm12  
 XhocAr bvlamDC) 322°.  
 0: tROE° 1R6 RRC Q tROE° 1R6 RR2



**BORING C-2**

09l u 1 VQ 1

PROJECT NO. 00C 60C2/

PROJECT NAME 8m lbylr b Q erA Ndvrm4 e AANdhlb  
 PROJECT LOCATION f ldXr pbA4r Jbl, DCa edgh CLIENT ubvábq6Jbl A& HlamDFood  
 DATE STARTED 1-3C-1/ COMPLETED 1-3C-1/ LATITUDE 30VE2d B/S LONGITUDE / 1MRFEdl ° (  
 DRILLING CONTRACTOR H9uD) 4 DRILLING METHOD 4 rgrThbg 9Jyrc  
 LOGGED BY 4dHreYhb CHECKED BY 0d8dHhbc GROUND ELEVATION — HAMMER TYPE —

Su' H9u) VI 99f UTV) 9U) VSI 6Su' UuHó) 9U) B60C62d NU63-1-1/ 1...1 6QU) ISU) CFU) U8VXu4U) UCC 60C2/ 18uHlSI UVS QV8uf Ut 0X

88	Nu0UT ttf" f9HO) u Nu0UT SWHku8	99f TLV	1 890TR ) VI	k) V 4VWSUf	S669) Wu	HVF UMS u 4VSLUSUTK"	Q6uf 4VSLUSUTK"	V81 9SFA 4VSLUSUTK"	) PAVRN ) HIRU	0) 9f UR H7 ISNuG	0V4CuU0uSd tAt	8u4V5u87 K t6 %N"	8uH98Q
	9Asphá t2"												
	) li. nre oc khAmE"												
1	7m YlAp. wv Yb lr. shawer Yb ribmf 9SNDéhom AáDsr r eá yéhgngd	963											
2	Nhec wv YbDyéh, ribmf 9SNDéhomAáDsr r eá yéhgngd	963											
3	ke Yb ribmf 9SNDéhomAáDsr r eá yéhgngd	963											
	krllri rnrw rpranh. mnd												

NOTES \_\_\_\_\_

GROUND WATER LEVELS  
 ∇ AT TIME OF DRILLING ° tEib \* ∇ END OF DAY 66

## **FIELD EXPLORATION PROCEDURES**

### **Standard Penetration Test (SPT) Borings**

The Standard Penetration Test (SPT) boring(s) were performed in general accordance with the latest revision of ASTM D 1586, "Standard Test Method for Standard Penetration Test (SPT) and Split-Barrel Sampling of Soils." The borings were advanced by rotary drilling techniques. A split-barrel sampler was inserted to the borehole bottom and driven 18 to 24 inches into the soil using a 140-pound hammer falling an average of 30 inches per hammer blow. The number of hammer blows for the final 12 inches of penetration (18" sample) or for the sum of the middle 12 inches of penetration (24" sample) is termed the "penetration resistance, blow count, or N-value." This value is an index to several in-situ geotechnical properties of the material tested, such as relative density and Young's Modulus.

After driving the sampler, it was retrieved from the borehole and representative samples of the material within the split-barrel were containerized and sealed. After completing the drilling operations, the samples for each boring were transported to the laboratory where they were examined by a geotechnical engineer to verify the field descriptions and classify the soil, and to select samples for laboratory testing.

### **Hand Auger Boring**

The auger boring(s) were performed manually by the use of a hand-held bucket auger in general accordance with the latest revision of ASTM D 1452, "Standard Practice for Soil Exploration and Sampling by Auger Borings." Representative samples of the soils brought to the ground surface by the auger were placed in sealed containers and transported to our laboratory where they were examined by a geotechnical engineer to verify the field descriptions and classify the soil, and to select samples for laboratory testing.



# KEY TO BORING LOGS – USCS/AASHTO

## Soil Classification

Soil classification of samples obtained at the boring locations is based on the Unified Soil Classification System (USCS) or the American Association of State Highway and Transportation Officials (AASHTO) classification system. Coarse grained soils have more than 50% of their dry weight retained on a #200 sieve. Their principal descriptors are: sand, cobbles and boulders. Fine grained soils have less than 50% of their dry weight retained on a #200 sieve. They are principally described as clays if they are plastic and silts if they are slightly to non-plastic. Major constituents may be added as modifiers and minor constituents may be added according to the relative proportions based on grain size. In addition to gradation, coarse-grained soils are defined on the basis of their in-place relative density and fine-grained soils on the basis of their consistency.

BORING LOG LEGEND	
Symbol	Description
N	Standard Penetration Resistance, the number of blows required to advance a standard spoon sampler 12" when driven by a 140-lb hammer dropping 30".
WOR	Split Spoon sampler advanced under the weight of the drill rods
WOH	Split Spoon sampler advanced under the weight of the SPT hammer
50/2"	Indicates 50 hammer blows drove the split spoon 2 inches; 50 Hammer blows for less than 6-inches of split spoon driving is considered "Refusal".
(SP)	Unified Soil Classification System
-200	Fines content, % Passing No. 200 U.S. Standard Sieve
w	Natural Moisture Content (%)
OC	Organic Content (%)
LL	Liquid Limit
PI	Plasticity Index
NP	Non-Plastic
PP	Pocket Penetrometer in tons per square foot (tsf)

MODIFIERS	
<b>SECONDARY CONSTITUENTS</b> (Sand, Silt or Clay)	
Trace	Less than 5%
With	5% to 12%
Sandy, Silty or Clayey	12% to 35%
Very Sandy, Very Silty or Very Clayey	35% to 50%
<b>ORGANIC CONTENT</b>	
Trace	2% or less
With	3% to 5%
Organic Soils	5% to 20%
Highly Organic Soils (Muck)	20% to 75%
PEAT	Greater than 75%
<b>MINOR COMPONENTS</b> (Shell, Rock, Debris, Roots, etc.)	
Trace	Less than 5%
Few	5% to 10%
Little	15% to 25%
Some	30% to 45%

RELATIVE DENSITY (Coarse-Grained Soils)	
Relative Density	N-Value
Very Loose	Less than 4
Loose	4 to 10
Medium Dense	10 to 30
Dense	30 to 50
Very Dense	Greater than 50
<b>CONSISTENCY (Fine-Grained Soils)</b>	
Consistency	N-Value
Very Soft	Less than 2
Soft	2 to 4
Firm	4 to 8
Stiff	8 to 15
Very Stiff	15 to 30
Hard	Greater than 30
<b>RELATIVE HARDNESS (Limestone)</b>	
Relative Hardness	N-Value
Soft	Less than 50
Hard	Greater than 50

\* Using Safety Hammer

## AASHTO Soil Classification System (from AASHTO M 145 or ASTM D 3282)

General Classification	Granular Materials (35% or less passing the 0.075 mm sieve)							Silt-Clay Materials (>35% passing the 0.075 mm sieve)			
Group Classification	A-1		A-3	A-2				A-4	A-5	A-6	A-7
	A-1-a	A-1-b		A-2-4	A-2-5	A-2-6	A-2-7				A-7-5* A-7-6*
<b>Sieve Analysis, % passing:</b>											
2.00 mm (No. 10)	50 max	...	...	...	...	...	...	...	...	...	...
0.425 (No. 40)	30 max	50 max	51 min	...	...	...	...	...	...	...	...
0.075 (No. 200)	15 max	25 max	10 max	35 max	35 max	35 max	35 max	36 min	36 min	36 min	36 min
<b>Characteristics of fraction passing 0.425 mm (No. 40):</b>											
Liquid Limit	...	...	40 max	41 min	40 max	41 min	40 max	41 min	40 max	41 min	41 min
Plasticity Index	6 max	N.P.	10 max	10 max	11 min	11 min	10 max	10 max	11 min	11 min	11 min
Usual types of significant constituent materials	stone fragments, gravel and sand	fine sand	silty or clayey gravel and sand				silty soils		clayey soils		
General <i>local</i> ** rating as a subgrade	excellent to good		fair to poor								

\* Plasticity index of A-7-5 subgroup is equal to or less than the LL - 30. Plasticity index of A-7-6 subgroup is greater than LL - 30  
 \*\* Northeast Florida



## Unified Soil Classification System (USCS) (from ASTM D 2487)

Major Divisions		Group Symbol	Typical Names
<b>Coarse-Grained Soils</b> More than 50% retained on the 0.075 mm (No. 200) sieve	<b>Gravels</b> 50% or more of coarse fraction retained on the 4.75 mm (No. 4) sieve	Clean Gravels	GW Well-graded gravels and gravel-sand mixtures, little or no fines
			GP Poorly graded gravels and gravel-sand mixtures, little or no fines
		Gravels with Fines	GM Silty gravels, gravel-sand-silt mixtures
			GC Clayey gravels, gravel-sand-clay mixtures
	<b>Sands</b> 50% or more of coarse fraction passes the 4.75 mm (No. 4) sieve	Clean Sands	SW Well-graded sands and gravelly sands, little or no fines
			SP Poorly graded sands and gravelly sands, little or no fines
		Sands with Fines	SM Silty sands, sand-silt mixtures
			SC Clayey sands, sand-clay mixtures
<b>Fine-Grained Soils</b> More than 50% passes the 0.075 mm (No. 200) sieve	<b>Silts and Clays</b> Liquid Limit 50% or less	ML Inorganic silts, very fine sands, rock flour, silty or clayey fine sands	
		CL Inorganic clays of low to medium plasticity, gravelly/sandy/silty/lean clays	
		OL Organic silts and organic silty clays of low plasticity	
	<b>Silts and Clays</b> Liquid Limit greater than 50%	MH Inorganic silts, micaceous or diatomaceous fine sands or silts, elastic silts	
		CH Inorganic clays or high plasticity, fat clays	
		OH Organic clays of medium to high plasticity	
<b>Highly Organic Soils</b>		PT Peat, muck, and other highly organic soils	

Prefix: G = Gravel, S = Sand, M = Silt, C = Clay, O = Organic

Suffix: W = Well Graded, P = Poorly Graded, M = Silty, L = Clay, LL < 50%, H = Clay, LL > 50%

*Appendix B*

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**SUMMARY OF LABORATORY TEST RESULTS**

PROJECT NO. 0006-0028

DATE 3/2/2018

PROJECT NAME Remington Forest Drive Cross Drain

PROJECT LOCATION St. Johns County, Florida

CLIENT England-Thims & Miller, Inc.

Borehole	Sample No.	Approx. Depth (ft)	%<#200 Sieve	Water Content (%)	Organic Content (%)	Liquid Limit	Plastic Limit	Plasticity Index	USCS AASHTO Classifications	Comments
B-1	1	1.5	7	62	3.8	—	—	—	SP-SM	
C-1	3	5.5	9	76	9.7	—	—	—	A-3	

Note: "—" Untested Parameter

LAB SUMMARY\_MAE\_ALL PROJECTS-AASHTO - GINT STD US LAB.GDT - 3/2/18 10:01 - FIGINTGINT FILES\PROJECTS\0006-0028\LAB\_REMINGTON FOREST.GPJ

## **LABORATORY TEST PROCEDURES**

### **Percent Fines Content**

The percent fines or material passing the No. 200 mesh sieve of the sample tested was determined in general accordance with the latest revision of ASTM D 1140. The percent fines are the soil particles in the silt and clay size range.

### **Natural Moisture Content**

The water content of the tested sample was determined in general accordance with the latest revision of ASTM D 2216. The water content is defined as the ratio of "pore" or "free" water in a given mass of material to the mass of solid material particles.

### **Organic Loss on Ignition (Percent Organics)**

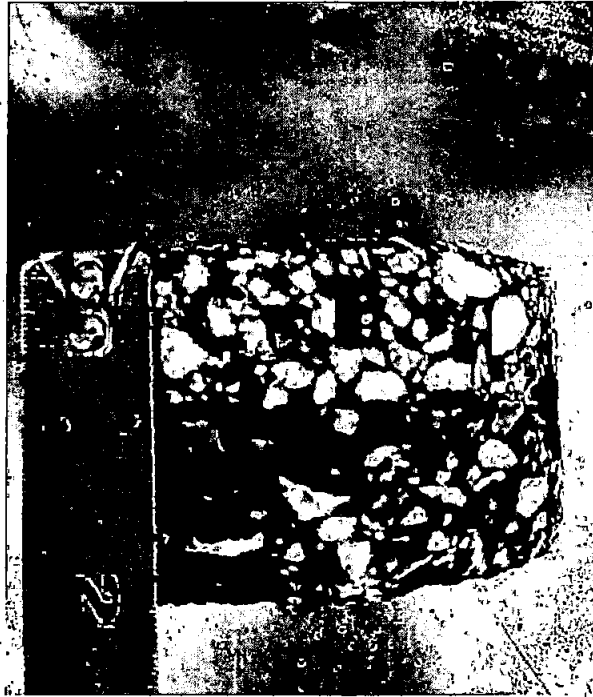
The organic loss on ignition or percent organic material in the sample tested was determined in general accordance with ASTM D 2974. The percent organics is the material, expressed as a percentage, which is burned off in a muffle furnace at  $455\pm 10$  degrees Celsius.



*Appendix C*

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Pavement Core Photographs



Core 1



Core 2