

AGREEMENT BETWEEN COUNTY AND CONTRACTOR

This Agreement Between County and Contractor, (this "Agreement") made and entered into by and between Marion County, a political subdivision of the State of Florida, located at 601 SE 25th Ave, Ocala, FL 34471 (hereinafter referred to as "COUNTY") and **Integrity Site Development**, located at 5257 NE 97th Street Rd, Anthony, FL 32617, possessing FEIN# 84-3423300 (hereinafter referred to as "CONTRACTOR") under seal for the SR 326 Water Main - From US Hwy 441 to CR 25A, (hereinafter referred to as the "Project"), and COUNTY and CONTRACTOR hereby agreeing as follows:

WITNESSETH:

In consideration of the mutual covenants and promises contained herein, COUNTY and CONTRACTOR (singularly referred to as "Party," collectively "Parties") hereto agree as follows:

Section 1 – The Contract. The contract between COUNTY and CONTRACTOR, of which this Agreement is part, consists of the Contract Documents. This Agreement approved by the Board of County Commissioners on August 19, 2025 shall be effective on the last signature date set forth below.

Section 2 – The Contract Documents. The Contract Documents are defined as this Agreement, the Specifications, the Drawings, all Purchase Orders, Change Orders and Field Orders issued hereafter, any other amendments hereto executed by the Parties hereafter, together with the following (if any):

Marion County #25B-117 - SR 326 Water Main - From US Hwy 441 to CR 25A, the Offer, Project Bid Scope and/or Specifications, Plans and Drawings, any/all Addenda as issued in support of this Bid, Recorded Bonds as required, Certificate of Insurance, and Notice to Proceed.

Should any conflict arise between the Contract Documents and the Agreement, the terms of the Agreement shall govern.

Section 3 – Entire Agreement. The Contract Documents form the agreement between Parties for the Project and the CONTRACTOR acknowledges receipt of a copy of each and every Contract Document. The Contract Documents represent the entire and integrated agreement between the Parties and supersede prior negotiations, representations or agreements, either written or oral. This Agreement may be amended or modified only in writing. The Contract Documents shall not be construed to create a contractual relationship of any kind between any persons or entities other than COUNTY and CONTRACTOR.

Section 4 – Term. The Work (defined herein) shall commence upon the start date noted on the Notice to Proceed, with substantial completion within 180 calendar days and an additional 30 calendar days allowed to achieve final completion (the "Term"). Liquidated Damages may be charged at the rate of \$250 per calendar day for any days beyond completion schedules. All work shall proceed in a timely manner without delays. TIME IS OF THE ESSENCE. All limitations of time set forth in the Contract Documents are of the essence of this Contractor. The Work may be presumed abandoned after ninety (90) calendar days if CONTRACTOR terminates the Work without just cause or without proper notification to COUNTY, including the reason for termination, or fails to perform Work without just cause for ninety (90) calendar days.

Section 5 – Scope of Services. CONTRACTOR shall complete the scope of services for the SR 326 Water Main - From US Hwy 441 to CR 25A, per the Contract Documents, Exhibit A – Scope of Work, HDD Pipe Installation, Exhibit B hereto, and within the Term.

Section 6 - Compensation. COUNTY shall make payment of One Million Nine Hundred Sixteen Thousand One Hundred Sixty-Seven Dollars and Thirty-Seven Cents, (\$1,916,167.37), (the "Agreement Price"), to CONTRACTOR under COUNTY's established procedure and according to the schedule set forth in Construction Standards, Exhibit C, and the Schedule of Values, Exhibit D hereto. There shall be no provisions for pricing adjustments during the Term.

Section 7 – Use of Other Contracts. COUNTY reserves the right to utilize any COUNTY contract, State of Florida contract, city or county governmental agencies, school board, community college/state university system or cooperative bid agreement. COUNTY reserves the right to separately bid any single order or to purchase any item on this Agreement if it is in the best interest of COUNTY.

Section 8 – Assignment. CONTRACTOR may not subcontract all or any part of this Agreement without written approval by COUNTY.

Section 9 – Laws, Permits, and Regulations. Prior to the performance of any Work hereunder, CONTRACTOR shall obtain and pay for all licenses and permits, as required to perform the Work. CONTRACTOR shall at all times comply with all appropriate laws, regulations, and ordinances applicable to the services provided under this Agreement.

Section 10 – Amendments. This Agreement may only be amended by mutual written agreement of both Parties.

Section 11 – Books and Records. CONTRACTOR shall keep records of all transactions, including documentation accurately reflecting the time expended by CONTRACTOR and its personnel. COUNTY shall have a right to request records from CONTRACTOR, and for those records to be made available within a reasonable timeframe depending on method of acquisition.

Section 12 – Public Records Compliance

A. IF CONTRACTOR HAS QUESTIONS REGARDING THE APPLICATION OF CHAPTER 119, FLORIDA STATUTES, TO ITS DUTY TO PROVIDE PUBLIC RECORDS RELATING TO THIS AGREEMENT, CONTACT COUNTY’S CUSTODIAN OF PUBLIC RECORDS AT:

Public Relations | 601 SE 25th Ave, Ocala, FL 34471

Phone: 352-438-2300 | Fax: 352-438-2309

Email: publicrelations@marionfl.org

B. CONTRACTOR shall comply with public records laws, specifically:

- Keep and maintain public records required by COUNTY to perform the Work;
- Upon request from COUNTY's custodian of public records, provide 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 provided in Chapter 119, Florida Statutes, or as otherwise provided by law;
- Ensure that public records that are exempt or confidential and exempt from public records disclosure requirements are not disclosed except as authorized by law for the duration of the Term and following completion of this Agreement if CONTRACTOR does not transfer the records to COUNTY; and,
- Upon completion of this Agreement, transfer, at no cost, to COUNTY, all public records in possession of CONTRACTOR or keep and maintain public records required by COUNTY to perform the Work. If CONTRACTOR transfers all public records to COUNTY upon completion of this Agreement, CONTRACTOR shall destroy any duplicate public records that are exempt or confidential and exempt from public records disclosure requirements. If CONTRACTOR keeps and maintains public records upon the completion of this Agreement, CONTRACTOR shall meet all applicable requirements for retaining public records. All records stored electronically must be provided to COUNTY, upon request from COUNTY's custodian of public records, in a format that is compatible with the information technology systems of COUNTY.

C. If CONTRACTOR fails to provide the public records to COUNTY within a reasonable time, CONTRACTOR may be subject to penalties under Section 119.10 Florida Statutes and may be subject to unilateral cancellation of this Agreement by COUNTY. This section shall survive the termination of the Agreement.

Section 13 – Indemnification. CONTRACTOR shall indemnify and hold harmless COUNTY, its officers and employees, from liabilities, damages, and losses, including, but not limited to, property damage, harm or personal injury to third persons, such as death, and costs, including but not limited to reasonable attorneys’ fees, which COUNTY, its officers or employees may sustain, or which may be asserted against COUNTY or its officers, or employees, arising out of the activities contemplated by the Agreement to the extent caused by the negligence, recklessness, or intentional wrongful misconduct of CONTRACTOR and persons employed or utilized by CONTRACTOR in the performance of the Agreement. This Section shall not be construed in any way to alter COUNTY’s waiver of sovereign immunity or the limits established in Section 768.28, Florida Statutes. This section shall survive the termination of the Agreement.

Section 14 – Insurance. As applicable, during the period of Work, insurance policies shall be with a company or companies authorized to do business in the State of Florida. COUNTY shall be notified if any policy limit has eroded to one half its annual aggregate. CONTRACTOR shall provide, within the timeframe noted in the Award Letter, a Certificate of Insurance, issued by a company authorized to do business in the State of Florida and with an A.M. Best Company rating of at least A-. Self-Insured companies that cannot be rated, will also be considered. All policies must include all requirements listed below, reference the project number and show Marion County as additional insured. The Certificate should also provide for 30-day cancellation notice to the Procurement Director’s address, set forth herein.

WORKERS COMPENSATION AND EMPLOYER'S LIABILITY

Coverage to apply for all employees at STATUTORY Limits in compliance with applicable state and federal laws.

- Employer's Liability limits for not less than \$100,000 each accident \$500,000 disease policy limit and \$100,000 disease each employee must be included.
- The Contractor/Vendor, and its insurance carrier, waives all subrogation rights against Marion County, a political subdivision of the State of Florida, its officials, employees and volunteers for all losses or damages which occur during the contract and for any events occurring during the contract period, whether the suit is brought during the contract period or not.
- The County requires all policies to be endorsed with WC00 03 13 Waiver of our Right to Recover from others or equivalent.

COMMERCIAL GENERAL LIABILITY

Coverage must be afforded under a Commercial General Liability policy with limits not less than

- \$1,000,000 each occurrence for Bodily Injury, Property Damage and Personal and Advertising Injury
- \$2,000,000 each occurrence for Products and Completed Operations

BUSINESS AUTOMOBILE LIABILITY

Coverage must be afforded including coverage for all Owned vehicles, Hired and Non-Owned vehicles for Bodily Injury and Property Damage of not less than \$500,000 combined single limit each accident.

- In the event the Contractor/Vendor does not own vehicles, the Contractor/Vendor shall maintain coverage for Hired & Non-Owned Auto Liability, which may be satisfied by way of endorsement to the Commercial General Liability policy or separate Business Auto Liability policy.

Section 15 – Independent Contractor. In the performance of this Agreement, CONTRACTOR will be acting in the capacity of an “Independent Contractor” and not as an agent, employee, partner, joint venture, or associate of COUNTY. CONTRACTOR shall be solely responsible for the means, methods, techniques, sequences, and procedures utilized by CONTRACTOR in the full performance of this Agreement.

Section 16 – Default/Termination. In the event CONTRACTOR fails to comply with any of the provisions of this Agreement, COUNTY may terminate this Agreement for cause by first notifying CONTRACTOR in writing, specifying the nature of the default and providing CONTRACTOR with a reasonable period of time in which to rectify such default. In the event the default is not cured within the time period given, COUNTY thereafter may terminate this Agreement for cause upon written notice to CONTRACTOR without prejudice to COUNTY. In the event of termination of this Agreement for cause, COUNTY will then be responsible to compensate CONTRACTOR only for those services timely and satisfactorily performed pursuant to this Agreement up to the date of termination. COUNTY may terminate this Agreement without cause providing at least thirty (30) days written notice to CONTRACTOR. In the event of termination of this Agreement without cause, COUNTY will compensate CONTRACTOR for all services timely and satisfactorily performed pursuant to this Agreement up to and including the date of termination. Notwithstanding any other provision of this Agreement, this Agreement may be terminated if for any reason there are not sufficient appropriated and available monies for the purpose of maintaining COUNTY's or other public entity's obligations under this Agreement. Should this occur, COUNTY shall have no further obligation to CONTRACTOR other than to pay for services rendered prior to termination.

Section 17 – Damage to Property. CONTRACTOR shall be responsible for all material, equipment and supplies sold and delivered to COUNTY under this Agreement and until final inspection of the Work and acceptance thereof by COUNTY. In the event any such material, equipment and supplies are lost, stolen, damaged or destroyed, or COUNTY property, buildings, or equipment is damaged during delivery or unloading, or in the course of the WORK prior to final inspection and acceptance, CONTRACTOR shall replace the same or be returned to original state without additional cost to COUNTY, as applicable.

Section 18 – Governing Law. Law, Venue, Waiver of Jury Trial, and Attorney’s Fees. This Agreement and all the Contract Documents shall be construed according to the laws of Florida and shall not be construed more strictly against one party than against the other because it may have been drafted by one of the parties. In the event of any legal proceeding arising from or related to this Agreement; (1) venue for state or federal legal proceedings shall be in Marion County, Florida (2) for civil proceedings, the parties consent to trial by the court and waive right to jury trial, (3) the prevailing party shall be entitled to recover all of its costs, including attorney’s fees. This section shall survive the termination of the Agreement.

Section 19 – Termination for Loss of Funding/Cancellation for Unappropriated Funds. The obligation of COUNTY for payment to a CONTRACTOR is limited to the availability of funds appropriated in a current fiscal period, and continuation of this Agreement into a subsequent fiscal period is subject to appropriation of funds, unless otherwise authorized by law.

Section 20 – E-Verify, pursuant to Section 448.095, F.S. COUNTY hereby affirms it is duly registered, uses, and adheres to the practices of the E-Verify system, including those outlined in the clauses below.

Beginning January 1, 2021, Section 448.095, F.S., requires CONTRACTOR to register and use the E-Verify system to verify the work authorization status of all newly hired employees and prohibits CONTRACTOR from entering into this Agreement unless it is in compliance therewith. Information provided by CONTRACTOR is subject to review for the most current version of the State or Federal policies at the time of the award of this Agreement.

By previously signing the ITB Acknowledgment and Addenda Certification Form, and this Agreement, CONTRACTOR has agreed to perform in accordance with the requirements of this subsection and agrees:

- a) It is registered and uses the E-Verify system to verify work authorization status of all newly hired employees.
- b) COUNTY shall immediately terminate CONTRACTOR if COUNTY has a good faith belief that CONTRACTOR has knowingly violated Section 448.09(1), F.S., that is, that CONTRACTOR knowingly employed, hired, recruited, or referred either for itself or on behalf of another, private or public employment within the State an alien who is not duly authorized to work by the immigration laws or the Attorney General of the United States.
- c) If CONTRACTOR enters into a contract with a subcontractor, CONTRACTOR shall obtain from the subcontractor an affidavit stating that the subcontractor does not employ, contract with, or subcontract with an unauthorized alien.
- d) CONTRACTOR shall maintain a copy of such affidavit for the duration of this Agreement and provide it to COUNTY upon request.
- e) CONTRACTOR shall immediately terminate the subcontractor if CONTRACTOR has a good faith belief that the subcontractor has knowingly violated Section 448.09(1), F.S., as set forth above.
- f) If COUNTY has a good faith belief that CONTRACTOR’s subcontractor has knowingly violated Section 448.095, F.S., but that CONTRACTOR has otherwise complied, COUNTY shall promptly order CONTRACTOR to terminate the subcontractor. CONTRACTOR agrees that upon such an order, CONTRACTOR shall immediately terminate the subcontractor. CONTRACTOR agrees that if it should fail to comply with such an order, COUNTY shall immediately terminate CONTRACTOR.
- g) If COUNTY terminates this Agreement with CONTRACTOR, CONTRACTOR may not be awarded a public contract for at least one (1) year after the date of termination.
- h) CONTRACTOR is liable for any additional costs incurred by COUNTY as a result of a termination under this subsection.
- i) Any such termination under this subsection is not a breach of this Agreement and may not be considered as such.
- j) CONTRACTOR shall maintain records of its registration, use, and compliance with the provisions of the E-Verify system, including the registration and use by its subcontractors, and to make such records available to COUNTY or other authorized governmental entity.

- k) To comply with the terms of this Employment Eligibility Verification provision is made an express condition of this Agreement and COUNTY may treat a failure to comply as a material breach of this Agreement.

Section 21 – Force Majeure. Neither CONTRACTOR nor COUNTY shall be considered to be in default in the performance of its obligations under this Agreement, except obligations to make payments with respect to amounts already accrued, to the extent that performance of any such obligations is prevented or delayed by any cause, existing or future, which is beyond the reasonable control and not a result of the fault or negligence of, the affected Party (a "Force Majeure Event"). If a Party is prevented or delayed in the performance of any such obligations by a Force Majeure Event, such Party shall immediately provide notice to the other Party of the circumstances preventing or delaying performance and the expected duration thereof. Such notice shall be confirmed in writing as soon as reasonably possible. The Party so affected by a Force Majeure Event shall endeavor, to the extent reasonable, to remove the obstacles which prevent performance and shall resume performance of its obligations as soon as reasonably practicable. A Force Majeure Event shall include, but not be limited to acts of civil or military authority (including courts or regulatory agencies), acts of God, war, riot, or insurrection, inability to obtain required permits or licenses, hurricanes and severe floods.

Section 22 – Counterparts. Original signatures transmitted and received via facsimile or other electronic transmission of a scanned document, (e.g., PDF or similar format) are true and valid signatures for all purposes hereunder and shall bind the Parties to the same extent as that of an original signature. Any such facsimile or electronic mail transmission shall constitute the final agreement of the Parties and conclusive proof of such agreement. Any such electronic counterpart shall be of sufficient quality to be legible either electronically or when printed as hardcopy. COUNTY shall determine legibility and acceptability for public record purposes. This Agreement may be executed in one or more counterparts, each of which shall for all purposes be deemed to be an original and all of which shall constitute the same instrument.

Section 23 - Scrutinized Companies, pursuant to Section 287.135, F.S.

A. Certification.

1. If this Agreement is for One Million Dollars or more, CONTRACTOR certifies that at the time it submitted its bid or proposal for this Agreement or before entering into this Agreement or renewing same, CONTRACTOR was not then and is not now:
 - a. On the Scrutinized Companies with Activities in Sudan List or the Scrutinized Companies with Activities in the Iran Petroleum Energy Sector List, created pursuant to Section 215.473, F.S., or
 - b. Engaged in business operations in Cuba or Syria.
2. If this Agreement is for any amount, CONTRACTOR certifies that at the time it submitted its bid or proposal for this Agreement or before entering into this Agreement or renewing same, CONTRACTOR was not then and is not now:
 - a. On the Scrutinized Companies that Boycott Israel List, created pursuant to Section 215.4725, F.S. or
 - b. Engaged in a boycott of Israel.

B. Termination, Threshold Amount. COUNTY may, entirely at its option, terminate this Agreement if it is for One Million Dollars and CONTRACTOR meets any of the following criteria.

1. Was entered into or renewed on or after July 1, 2011, through June 30, 2012, and CONTRACTOR is found to meet any of the following prohibitions:
 - a. Submitted a false certification as provided under Section 287.135(5), F.S., or
 - b. Been placed on the Scrutinized Companies with Activities in Sudan List or the Scrutinized Companies with Activities in the Iran Petroleum Energy Sector List, created pursuant to Section 215.473, F.S.
2. Was entered into or renewed on or after July 1, 2012, through September 30, 2016, and CONTRACTOR is found to meet any of the following prohibitions:
 - a. Submitted a false certification as provided under Section 287.135(5), F.S.;
 - b. Been placed on the Scrutinized Companies with Activities in Sudan List or the Scrutinized Companies with Activities in the Iran Petroleum Energy Sector List, created pursuant to Section 215.473, F.S.; or
 - c. Been engaged in business operations in Cuba or Syria.
3. Was entered into or renewed on or after October 1, 2016, through June 30, 2018, and CONTRACTOR is found to meet any of the following conditions:
 - a. Submitted a false certification as provided under Section 287.135(5), F.S.;
 - b. Been placed on the Scrutinized Companies with Activities in Sudan List or the Scrutinized Companies with Activities in the Iran Petroleum Energy Sector List, created pursuant to Section 215.473, F.S.;
 - c. Been engaged in business operations in Cuba or Syria; or

- d. Been placed on the Scrutinized Companies that Boycott Israel List, created pursuant to Section 215.4725, F.S. or is engaged in a boycott of Israel.
4. Was entered into or renewed on or after July 1, 2018, and CONTRACTOR is found to meet any of the following prohibitions:
 - a. Submitted a false certification as provided under Section 287.135(5), F.S.;
 - b. Been placed on the Scrutinized Companies with Activities in Sudan List or the Scrutinized Companies with Activities in the Iran Petroleum Energy Sector List, created pursuant to Section 215.473, F.S.; or
 - c. Been engaged in business operations in Cuba or Syria.
- C. Termination, Any Amount. COUNTY may, entirely at its option, terminate this Agreement if it is for any amount and meets any of the following criteria.
 1. Was entered into or renewed on or after July 1, 2018, and
 2. CONTRACTOR is found to have been placed on the Scrutinized Companies that Boycott Israel List, created pursuant to Section 215.4725, F.S. or is engaged in a boycott of Israel.
- D. Comply; Inoperative. The Parties agree to comply with Section 287.135, F.S., as it may change from time to time during the Term. The contracting prohibitions in this Section become inoperative on the date that Federal law ceases to authorize the State of Florida to adopt and enforce such contracting prohibitions.

Section 24 – Sovereign Immunity. Nothing in the Agreement shall be deemed to waive the sovereign immunity protections provided COUNTY pursuant to Florida law. Notwithstanding anything stated to the contrary in the Agreement, any obligation of COUNTY to indemnify CONTRACTOR, if provided, is limited and shall not exceed the limits set forth in Section 768.28, Florida Statutes. This Section shall survive the termination of the Agreement.

Section 25 – On-Going Compliance. The Parties acknowledge that the Agreement may contain provisions prescribed by laws, statutes, and regulations that can change during the Term of the Agreement. The Parties understand and agree that the Agreement is intended to reflect and require the Parties' compliance with all laws at all times. The Parties expressly and specifically agree to perform the Agreement in full compliance with the governing laws, statutes, and regulations, as same may change from time to time.

Section 26 – CONTRACTOR Conduct: These Guidelines govern CONTRACTOR while doing work on COUNTY property, as well as its employees, agents, consultants, and others on COUNTY property in connection with CONTRACTOR's work or at CONTRACTOR's express or implied invitation.

- **Courtesy and Respect:** COUNTY is a diverse government institution and it is critical that CONTRACTOR and its employees conduct themselves in a manner that is lawful, courteous, businesslike, and respectful of all staff, guests, or visitors.
- **Language and Behavior:** CONTRACTOR and its employees cannot engage in behavior that is rude, threatening, or offensive. Use of profane or insulting language is prohibited. Harassment of any type, including sexual harassment is strictly prohibited. Abusive, derogatory, obscene or improper language, gestures, remarks, whistling, cat calls or other disrespectful behavior cannot be tolerated. Roughhousing, fighting, fisticuffs, physical threats, destruction of property, vandalism, littering, or physical abuse of anyone on COUNTY property is not permitted under any circumstance.
- **No Weapons, Alcohol, or Drugs:** The use, possession, distribution, or sale of any weapon, alcohol, illegal drug, or controlled dangerous substance by CONTRACTOR or its employees is prohibited. Offenders will be removed from COUNTY property and/or reported to law enforcement.
- **Smoking:** CONTRACTOR and its employees are not permitted to smoke in or near any COUNTY buildings.
- **Fraternization:** CONTRACTOR and its employees may not fraternize or socialize with COUNTY staff.
- **Appearance:** CONTRACTOR and its employees are required to wear appropriate work wear, hard hats and safety footwear, as the case may be, while on the job. Articles of clothing must be neat and tidy in appearance, and cannot display offensive or inappropriate language, symbols or graphics. COUNTY has the right to decide if such clothing is inappropriate.
- **Reporting:** CONTRACTOR is required to report any matter involving a violation of these rules or any matter involving health or safety, including any altercations, to COUNTY's Procurement Services immediately.

CONTRACTOR is responsible for its employees, agents, consultants and guests. If prohibited conduct does occur, CONTRACTOR will take all necessary steps to stop and prevent any future occurrence. Any breach of these conditions will result in the removal of the person responsible from COUNTY property and prohibited actions could result in the immediate termination of any or all of CONTRACTOR's contracts with COUNTY.

Section 27 – Authority to Obligate. Each person signing this Agreement on behalf of either Party individually warrants that he or she has full legal power to execute this Agreement on behalf of the Party for whom he or she is signing, and bind and obligate such Party with respect to all provisions contained in this Agreement.

Section 28 – Notices. Except as otherwise provided herein, all written communication between the parties, including all notices, shall be by electronic mail, U.S. Mail, a courier delivery service, or delivered in person. Notices shall be deemed effective if mailed, when deposited in a United States Postal Service mailbox with postage prepaid and if hand delivered, upon personally handing same to the party to whom the notice of other communication is addressed with signed proof of delivery. If otherwise delivered, notices shall be considered delivered when reflected by an electronic mail read receipt, a courier service delivery receipt, other mail service delivery receipt, or when receipt is acknowledged by recipient. All parties certify that each has software capable of sending electronic mail read receipts to the other. Any party sending notice by electronic mail acknowledges and accepts the inherent risks that come with same. If notice is delivered in multiple ways, notice shall be considered delivered at the earliest delivery time. CONTRACTOR's and COUNTY's representatives and addresses for notice purposes are:

CONTRACTOR: Integrity Site Development
5257 NE 97th Street Rd, Anthony, FL 32617
CONTACT PERSON: Mike Bloutwell | 352-843-1773

COUNTY: Marion County Utilities
c/o Marion County, a political subdivision of the State of Florida
601 SE 25th Ave, Ocala, FL 34471

A copy of all notices to COUNTY hereunder shall also be sent to:

Procurement Services Director
Marion County Procurement Services Department
2631 SE 3rd St., Ocala, FL 34471

Alternatively, the parties may elect to receive said notices by e-mail. COUNTY hereby elects to receive all notices solely by email and designates its email address as procurement@marionfl.org. If CONTRACTOR agrees to accept all notices solely by e-mail and acknowledges and accepts the inherent risks that come with accepting notices solely by e-mail, CONTRACTOR may designate up to two (2) e-mail addresses: mike@integritysited.com and lisa@integritysited.com. Designation signifies CONTRACTOR's election to accept notices solely by e-mail.

(Remainder of page intentionally left blank. Signature page to follow.)

IN WITNESS WHEREOF the Parties have entered into this Agreement, as approved by the Marion County Board of County Commissioners, on the date of the last signature below.

ATTEST:

GREGORY C. HARRELL, DATE
MARION COUNTY CLERK OF COURT

**MARION COUNTY, A POLITICAL SUB
DIVISION OF THE STATE OF FLORIDA**

**FOR USE AND RELIANCE OF MARION
COUNTY ONLY, APPROVED AS TO FORM
AND LEGAL SUFFICIENCY**

KATHY BRYANT DATE
CHAIRMAN

MATTHEW G. MINTER, DATE
MARION COUNTY ATTORNEY

BCC APPROVED: August 19, 2025
25B-117 | SR 326 Water Main - From US Hwy 441 to
CR 25A

INTEGRITY SITE DEVELOPMENT

WITNESS:

SIGNATURE

PRINTED NAME

BY: DATE

PRINTED:

WITNESS:

SIGNATURE

PRINTED NAME

S.R. 326 WATER MAIN – From US HWY 441 to CR 25A**1. SCOPE OF WORK****1.1. DESCRIPTION**

S.R. 326 WATER MAIN IMPROVEMENTS – From US HWY 441 to CR 25A first phase of phase 1B of the Lowell Service Area Improvement project. The project is located in the northwest quadrant of Marion County, Florida. The CONTRACTOR is responsible for all permits unless stated otherwise within this document and must be licensed by Marion County and State of Florida. Construction Manager for this project is **Alejandro Rad** with Marion County Utilities (MCU), and the Project Engineer of Record (EOR) for this project is **Frederick R. Holmes, P.E.**, with Hazen and Sawyer. All local codes and State of Florida ADA Code will apply. All work must be done by experienced trades.

1.2. GENERAL

1.2.1. The work included in this section is hereby defined as furnishing all labor, equipment and materials, and in performing all operations and procedures necessary for the installation of gravity sanitary sewer main, sanitary sewer services, road and driveway restoration, and any other work in accordance with the specifications itemized below and the following drawings and documents:

- 1.2.1.1. Part 1 – Scope of Work
- 1.2.1.2. Part 2 – Bid Form
- 1.2.1.3. Appendix A – Measurement and Payment Specification
- 1.2.1.4. Design Documents
 - 1.2.1.4.1. Geotechnical Report by GEO-TECH, Inc. dated June 2, 2021.
 - 1.2.1.4.2. Construction Plans by Hazen Sawyer
 - 1.2.1.4.3. Updated Marion County Utility Details
 - 1.2.1.4.4. Specification Section 02320 – HDD Pipe Installation
- 1.2.1.5. FDOT Utility Permit – Permit application in progress
- 1.2.1.6. FDEP Permit – Permit application in progress

1.2.2. CONTRACTOR must identify all subcontractors, and the work they will perform for this project, on the Disclosure Form provided in the solicitation documents. It is the County's expectation that any portion of the work not identified under a subcontractor will be self-performed by the CONTRACTOR. Written approval must be obtained from the Construction Manager or his designee prior to any changes to subcontractors or their workload/responsibility under this project.

1.2.3. Marion County reserves the right to reject any subcontractor based on past performance, location, or any other grounds that may conflict with the best interests of Marion County Board of County Commissioners.

1.3. SPECIFIC SCOPE OF WORK

- 1.3.1. The list of activities shall include but not be limited to:
- 1.3.1.1. New water mains with appurtenances as per the drawings
 - 1.3.1.2. Compliance with maintenance of traffic as per FDOT manual
 - 1.3.1.3. Compliance with permit requirements from FDEP and MCTD

- 1.3.1.4. Notifications to residents and property owner association (if applicable)
- 1.3.1.5. Coordination of shutdown activities and Boil Water Notices (if applicable) with the County representative
- 1.3.1.6. Pressure test as required by FDEP permit
- 1.3.1.7. Bac-T tests as required by FDEP permit
- 1.3.1.8. Survey As Built:
 - 1.3.1.8.1. Three sets of As-Built/Record Survey signed and sealed by a Florida Licensed Professional Surveyor and mapper shall be submitted to MCUD prior to final inspection along with a digital version of the survey and plan set in a format pre-approved by MCUD.
 - 1.3.1.8.2. All directional drill boring logs shall be submitted with the as-built survey.
 - 1.3.1.8.3. A Star (*) shall indicate assets constructed and/or installed as designed.
 - 1.3.1.8.4. A Cloud shall indicate assets that were constructed and/or installed differently than designed. Clouded as-built information shall accompany the strikethroughs.
 - 1.3.1.8.5. A Strikethrough shall indicate assets that were not constructed and/or installed. An "X" shall be used to indicate abandoned or removed mains and shall be labeled as "abandoned" or "removed".
 - 1.3.1.8.6. Northing and Easting shall be shown on the as-built plan sheets. When a table is used to show the northing and easting, the table shall be placed within the as-built AutoCAD file.
 - 1.3.1.8.7. As-Built Surveys shall be drawn in the Florida State Plane Coordinate System.
 - 1.3.1.8.8. NAVD88 and NAD83 coordinates shall be provided for the following:
 - 1.3.1.8.8.1. Water Mains:
 - 1.3.1.8.8.1.1. All vertical changes in the water main – surveyor shall shoot the top of pipe and the ground elevation.
 - 1.3.1.8.8.1.2. All fittings, valves, blow-offs, air release valves, and fire hydrants.
 - 1.3.1.8.8.1.3. Fire hydrant coordinates shall include the tee for the connection point on the water main, the valve to the fire hydrant, and the fire hydrant location taken at the top nut of the hydrant.
 - 1.3.1.8.8.1.4. All new water services. Coordinates shall be provided for all meter boxes and taps on the water main.
 - 1.3.1.8.8.1.5. Water Mains shall be surveyed for the top of pipe and the ground elevation at 100-foot intervals. As-Built survey shall indicate the distance from the water main to the right-of-way and/or easement at these locations.
 - 1.3.1.8.8.1.6. All caps and plugs. As-Built survey shall indicate the distance from each cap and/or plug to the nearest valve.
 - 1.3.1.8.8.1.7. Beginning and ending location of all horizontal directional drills.
 - 1.3.1.8.8.1.8. Start of casing, end of casing, and vent locations (including concrete collar) for all jack and bores.

1.4. GOVERNING SPECIFICATIONS

- 1.4.1. All improvements shall be made in accordance with the Marion County Land Development Code and the Florida Department of Transportation Standard Specifications for Road and Bridge Construction, (copies of which are available separately), as amended and augmented by these specifications and plans.

- 1.4.2. The CONTRACTOR is directed to the fact that the plans are provided for reference. It is the CONTRACTOR'S responsibility to verify all field conditions prior to initiating work.

1.5. SUBMITTALS

- 1.5.1. Prior to ordering the materials, CONTRACTOR shall submit to the ENGINEER the manufacturer's most current catalogue sheets and performance specifications for PVC Pipe, valves, air release valves, fittings, restraints, and any other associated appurtenances proposed for use on this project. **CONTRACTOR shall also provide the HDD pipe installation submittals required in Specification Section 02320 - HDD Pipe Installation.** Any material requiring a submittal that is purchased by the CONTRACTOR prior to receiving the ENGINEER'S approval of that material is at the CONTRACTOR'S own risk.
- 1.5.2. Contractor shall provide one (1) electronic copy in PDF format. If hard copies will be provided, Contractor shall provide a minimum of three (3) submittals for review by the ENGINEER. Engineer has 30 calendar days to review and respond to each submittal. Any materials acquired or installed by the CONTRACTOR prior to approval by the ENGINEER, does so at the CONTRACTOR'S sole risk.

1.6. DAILY REPORTS

- 1.6.1. The Contractor shall submit daily reports of construction activities and total amount of materials installed. The report shall include the following:
- 1.6.1.1. Manpower, number of workers by craft.
 - 1.6.1.2. Equipment on the project.
 - 1.6.1.3. Major deliveries.
 - 1.6.1.4. Activities work with reference to the CPM schedule activity numbers.
 - 1.6.1.5. New problems.
 - 1.6.1.6. Material installed and other pertinent information.
- 1.6.2. A similar report shall be submitted for/by each subcontractor.
- 1.6.3. The reports shall be submitted to the Construction Manager and Project Manager the following morning via email of the respective report date. Each report shall be signed by the Contractor's Superintendent or Project Manager.

1.7. PROGRESS SCHEDULES

- 1.7.1. All work of this Contract shall be scheduled and monitored by the Contractor using the Critical Path Method (CPM). The Contractor shall prepare the schedule for the project a minimum of two (2) weeks before starting any work and shall submit an updated schedule with each monthly pay request. The Contractor will prepare revisions of the schedule to reflect changes in the Contractor's plan of performance or changes in the Work and submit these revisions to the Construction Manager for acceptance.
- 1.7.2. The Contractor shall prepare schedules as a time scale logic diagram and bar chart unless otherwise approved by the Construction Manager. Each major and minor portion of work or operation shall be clearly identified and tied by logical sequence to the shop drawing schedule

and schedule of values. All schedules shall be prepared and submitted on 11-inch-by-17-inch paper.

1.7.3. Schedule Content

- 1.7.3.1. The Contractor shall show the complete sequence of construction by activity, with dates for beginning and completion of each element of construction and provide sub-schedules to define critical portions of the entire schedule. Schedules shall also show accumulated percentage of completion of each item and total percentage of work completed as of the first day of each month.

1.7.4. Revisions to Schedules

- 1.7.4.1. The Contractor shall indicate the progress of each activity to the date of submittal and the projected completion date of each activity. Revised schedules shall identify activities modified since previous submittal, major changes in scope, and other identifiable changes. The Contractor shall also provide a narrative report to define problem areas, anticipated delays, and impact on schedule. The Contractor shall also report corrective action taken or proposed and its effect, including the effect of schedule changes on other contractors.
- 1.7.4.2. The Contractor acknowledges that free float belongs to the Owner. Free float is the length of time that any activity can be delayed without adversely affecting the start of the activity scheduled to follow immediately after.

1.7.5. Recovery Schedule

- 1.7.5.1. If the Contractor fails to achieve the planned progress, as indicated in the approved/updated detailed CPM Schedule, and the Contractor's lack of progress delays the Critical path and/or an intermediate milestone by more than 10 work days (monthly or cumulatively), the Contractor shall submit to the Owner for review and acceptance a proposed Recovery Schedule indicating how the contractor will recover the time lost.
- 1.7.5.2. If the Contractor fails to submit a Recovery Schedule and/or fails to cooperate with the Owner in the Recovery Schedule process, the Owner can immediately order the Contractor to accelerate completion of the late activities which have been delayed by whatever means necessary without any additional costs to the Owner. The Owner can withhold future progress payments until the Contractor's progress is in compliance with the Contract Schedule or until the Owner has approved by Change Order proposed adjustments to the contract milestones, extension of contract time, or modification of the Contract Schedule.

1.8. PROGRESS MEETINGS

- 1.8.1. The Owner will organize and conduct a progress meeting at least once a month to discuss the progress of the Work. The Contractor and any subcontractors the Contractor deems necessary shall attend these meetings.

1.9. WORK HOURS

- 1.9.1. Regular work hours are hereby defined as 7:30 AM to 4:30 PM, Monday through Friday. Regular work hours do not include Saturday, Sunday, or other Marion County Holidays.
- 1.9.2. CONTRACTOR shall limit all work to the regular work hours specified above. Any deviation from these regular work hours requires prior written approval from the ENGINEER. If CONTRACTOR is granted permission to work at times other than regular work hours, **CONTRACTOR shall be responsible for paying for the OWNER'S, INSPECTORS' and ENGINEER'S time expended on the project during that time period for the inspections and oversight.**

1.10. MOBILIZATION/DEMobilIZATION

- 1.10.1. Mobilization shall include moving equipment and materials to the Project Site, providing temporary construction electrical power and water supply, installing sanitary facilities for workers, providing a full-time superintendent at the Project Site, providing required submittals, establishing a fire protection and safety plan, providing a detailed Critical Path Method schedule to the ENGINEER for approval, and posting of OSHA, Department of Labor, and all other required notices.
- 1.10.2. CONTRACTOR shall video all areas where construction will occur noting the condition of existing features in the work areas. CONTRACTOR shall provide a copy to the ENGINEER prior to commencement of work. Video quality shall be sufficient to see details of the existing features. Any video that is out of focus or otherwise unclear shall be reshot at the CONTRACTOR'S expense prior to any construction activities in the area.
- 1.10.3. CONTRACTOR shall lay out only the quantity of materials at the work locations that can be installed during that work day. No materials or equipment shall be left at a work location after completion of the workday; such items must be stored during non-work hours at the designated stockpile locations.
- 1.10.4. Upon completion of the work, CONTRACTOR shall demobilize in a timely manner, properly restore all work sites in accordance with these specifications, and remove from the Project Site all equipment, materials, dirt, debris, and other items generated by the CONTRACTOR during the project. Waste materials shall be disposed of off the Project Site at a duly licensed solid waste disposal facility. The CONTRACTOR shall arrange with the appropriate utility for the proper disconnect and service termination for temporary water and electrical supplies.

1.11. RECORDING

- 1.11.1. The Contractor shall record construction information:
 - 1.11.1.1. Record and update daily Record information from field notes and on a set of drawings and to the satisfaction of the Engineer.

- 1.11.1.2. Provide felt tip marking pens, maintaining separate colors for each major system, for recording information.
- 1.11.1.3. Record information concurrently (daily) with construction progress. Work shall not be concealed until required information is recorded.

1.12. PERMITS, LICENSES, AND FEES

- 1.12.1. CONTRACTOR is responsible for determining the required permits unless otherwise noted and licenses for prosecution of the work and for obtaining them in a timely manner so that the work proceeds in accordance with the project schedule. The COUNTY will provide FDEP permit to construct, and FDOT ROW Permit to perform work in the right-of-way. **CONTRACTOR must extend the ROW permit date as needed before commencement of work.**
- 1.12.2. CONTRACTOR shall be responsible for submitting application and obtaining Maron County ROW Permit. CONTRACTOR shall also be responsible for extending the permit as needed and coordinating directly with County ROW permitting staff and inspectors for inspections.
- 1.12.3. CONTRACTOR shall coordinate with the County and FDOT ROW Inspectors to schedule an initial ROW inspection as construction begins and a final inspection once all construction is complete and ROW has been restored. If the ROW Inspector disapproves the final ROW inspection, CONTRACTOR is responsible for paying any and all re-inspection fees.
- 1.12.4. CONTRACTOR will be required to provide all the documents necessary for the line clearance including but not limited to successful test reports, successful Bac-T samples, and a certified as-built survey.
- 1.12.5. CONTRACTOR will be required to provide all the documents necessary for final MCTD ROW inspection approval, including but not limited to successful geotechnical test reports for all road cuts.
- 1.12.6. CONTRACTOR is responsible for paying all license application and permit fees as applicable and posting all necessary notices required by permits and licenses.
- 1.12.7. CONTRACTOR is responsible for paying utility connection fees and ongoing service fees for its temporary construction facilities at the project site.
- 1.12.8. CONTRACTOR is responsible for paying fees for utility locating services.

1.13. TRAFFIC

- 1.13.1. CONTRACTOR's vehicles (including personal vehicles of its workers) shall obey all posted speed limits and traffic signs while traversing the Project Site.

- 1.13.2. Under no circumstances shall CONTRACTOR's vehicles (including personal vehicles of its workers), equipment or materials be parked or located in such a manner that blocks or impairs the flow of vehicular or pedestrian traffic on active roads and driveways.
- 1.13.3. CONTRACTOR is responsible for maintaining vehicular and pedestrian traffic control as per the latest version of the Florida Department of Transportation Standard Specifications for Road and Bridge Construction.

1.14. EXISTING PIPE LOCATION

- 1.14.1. CONTRACTOR shall contact Sunshine One Call to request locates of existing utilities prior to initiating any work in a particular area. CONTRACTOR shall be responsible for locating specific pipes as required to complete the work.
- 1.14.2. CONTRACTOR shall verify existing utilities as needed to avoid delay of work associated with other utilities.
- 1.14.3. CONTRACTOR bid shall reflect that hand excavation and installation of pipe may be necessary in areas in close proximity to other utilities (including but not limited to existing gas mains, existing telecommunications lines, existing storm water system, etc.). Unit pricing of affecting pay items shall reflect the need to hand excavate for installation.

1.15. PROTECTION OF UTILITIES

- 1.15.1. During the prosecution of the work, CONTRACTOR shall maintain the maximum practical distance between its work and underground and aboveground (e.g. cables, handholes, terminals, access points, transformers, switch boxes, cable TV pedestals and boxes, etc.) utility services and shall avoid any disturbance of these items and their supporting substrate.
- 1.15.2. CONTRACTOR shall be responsible at its own cost for repair and/or replacement of utilities damaged by its work.

1.16. EXCAVATION

- 1.16.1. CONTRACTOR is advised that there are potential conflicts from buried electrical power, gas, telephone, sewer laterals, water service lines, and cable television services. CONTRACTOR shall exercise extreme care when excavating so that contact and/or disturbance with these utilities is avoided.
- 1.16.2. Prior to any excavation work, CONTRACTOR shall notify the utility companies and shall have the respective utilities marked in the field.
- 1.16.3. When rock, boulders, clay, or other unsuitable materials are encountered in the trench bottom they shall be removed to a depth of at least twelve inches (12") below the new piping and any other appurtenances pursuant to this work.

- 1.16.4. The CONTRACTOR is responsible for the protection of all pavements and improvements within the work area. All damage to pavement and improvements shall be repaired at the CONTRACTOR'S own expense.
- 1.16.5. Excavations shall be kept free of water, including rain and runoff, while tubing/pipe is being installed in the excavation. The ends of tubing/pipe shall be kept properly plugged during installation to ensure that the tubing does not accumulate water, dirt, or other debris. All lines shall be flushed prior to placement into service.

1.17. MATERIALS

- 1.17.1. New Water Mains shall be polyvinyl chloride PVC with maximum dimension ratio DR18, and shall comply with AWWA C900 and C905/ASTM D1784/ASTM-3034/ASTM-2241.
- 1.17.2. New Gate Valves shall be in conformance with AWWA C515. All gate valves, unless otherwise specified or approved, shall be ductile iron body, bronze mounted. Gate valves shall be solid wedge and rubber encapsulated. All gate valves shall be rated for a minimum of 250 psi working pressure. Valves shall be equal to those as manufactured by AVK, American Flow Control, Clow, and Mueller, or Engineer approved equal.
- 1.17.3. New Air Release Valves shall be in conformance with AWWA C512. Valves shall be equal to those as manufactured by APCO (Water Only), A.R.I., Val-Matic (Water Only), and H-Tec, or Engineer approved equal.
- 1.17.4. New Fire Hydrants shall be in conformance with AWWA C502, latest edition. Hydrants shall have a minimum pressure rating of 150 psi and shall be tested at a minimum of 300 psi. The main valve opening of the hydrant shall be 5 1/4". Hydrants shall open by turning left (counter-clockwise). Hydrants shall be equal to those as manufactured by Clow, Kennedy, Mueller, American Darling, or Engineer approved equal.
- 1.17.5. New Stainless Steel tapping sleeves shall be in conformance with AWWA C223.
- 1.17.6. Refer to the general notes on the drawings, FDOT standards, AWWA standards, FAC standards, and the Land Development Code for material and performance specifications.
- 1.17.7. Pipes shall be homogeneous throughout; free from voids, cracks, inclusions, and other defects and shall be as uniform as is commercially practical in color, opacity, density, and other physical properties. Surfaces of the tubing shall be free from scratches, gouges, bloom, and other imperfections. Insides of tubing shall be kept free of dirt.
- 1.17.8. The OWNER reserves the right to sample and test any piping after delivery and to reject all piping represented by any sample that fails to comply with specified requirements. All pipes, fittings, and other ancillary materials shall be subject to inspection and approval by the ENGINEER after delivery. No broken, cracked, imperfectly coated, or otherwise damaged or unsatisfactory material shall be used. When any defect is discovered, the defective portion shall not be installed. Defective tubing shall have the defect cut off at least twelve inches (12") from the defect in the non-defective section of the barrel.

1.18. GRADING, SODDING, AND LANDSCAPING

- 1.18.1. After completion of the work including but not limited to successful tests, CONTRACTOR shall fill all trenches, cuts and other excavations with clean soil backfill. Backfill shall be free of rocks, clay, vegetative matter, trash, and debris and shall be compacted to form a stable surface level with the surrounding grade. Backfilled areas shall be compacted and graded manually (e.g. hand raking) so that the finish grade is restored to its pre-construction condition. Depressions, holes, voids, mounds, and cracks shall be removed so that the finished grade matches the surrounding, undisturbed grade.
- 1.18.2. Once the proper grade is achieved, CONTRACTOR shall place sod over all graded areas. Sod type shall match the type surrounding the grading area on undisturbed areas and shall completely cover surfaces disturbed by the CONTRACTOR'S work. Sod shall meet the FDOT Standard Specifications for Road and Bridge Construction (Section 570, latest edition).
- 1.18.3. Topsoil shall be loosened or scarified to sufficient depth so that sod root zone easily penetrates the topsoil. Sod sections shall be placed so that edges are in close contact and manually compacted in place so that the root zone completely penetrates the substrate topsoil. After proper placement of sod, CONTRACTOR shall be responsible for watering the sod daily (Monday through Friday, holidays excluded) for a period of not less than thirty (30) working days.

1.19. CLEAN-UP AND WASTE DISPOSAL

- 1.19.1. During construction, CONTRACTOR shall perform daily cleaning of the work site(s) and adjacent properties and remove waste materials and windblown debris resulting from its construction operations or its worker's personal activities. No excavations shall be left open overnight without prior approval of the ENGINEER and COUNTY.
- 1.19.2. CONTRACTOR shall perform complete restoration of each work area within thirty (30) calendar days from completion of major installation work. The CONTRACTOR may be subject to liquidated damages for any work areas not restored within these prescribed times.
- 1.19.3. CONTRACTOR shall provide on-site container(s) for the collection and storage of waste materials, debris, and rubbish. On-site container(s) shall be located at designated temporary building and material stockpile area(s).
- 1.19.4. CONTRACTOR shall remove waste materials, debris, and rubbish from on-site container(s) as needed and dispose of it off the Project Site at a duly licensed solid waste disposal facility.
- 1.19.5. Prior to final completion, CONTRACTOR shall conduct an inspection of all work areas (including the temporary building(s) and material stockpile area(s)) to verify that those areas are clean and free of trash, rubbish, and debris.

1.20. BASIS OF PAYMENT FOR SERVICES

- 1.20.1. The contractor should submit by the end of each month an invoice in the AIA format broken out in the same line items and sub items that have been defined in the Bid Form and Appendix A of the Contract Documents.
- 1.20.2. For compensation specifications, see Appendix A – Measurement and Payment.
- 1.20.3. Five (5) percent of the cost of each invoice will be withheld until final completion of the project. **CONTRACTOR SHALL PROVIDE THE COUNTY WITH FINAL RELEASES OF LIEN (CERTIFIED ORIGINALS) FROM ALL SUBCONTRACTORS AND SUPPLIERS WHEN SUBMITTING THEIR FINAL INVOICE. FAILURE TO PROVIDE THE FINAL RELEASE OF LIEN WILL DELAY PAYMENT OF THE FINAL INVOICE.**

1.21. WARRANTIES

- 1.21.1. CONTRACTOR shall provide Marion County with a one (1) year warranty for all portions of the project. The one (1) year warranty shall cover all necessary labor, equipment and replacement parts resulting from faulty or inadequate equipment design, improper assembly or erection, defective workmanship and materials, leakage, breakage or other failure of all equipment and components by the manufacturer.
- 1.21.2. When not specifically identified in the above language, the warranty shall commence upon release of final retainage.
- 1.21.3. Marion County shall incur no labor, material or equipment cost during the one (1) year warranty period for the repair of any work completed by the CONTRACTOR.

1.22. TIMELINES

- 1.22.1. All work will commence upon authorization from the County's Representative. All work will proceed in a timely manner without delays. The Contractor shall commence the work upon the issuance of Notice to Proceed from Procurement Services. Contractor shall achieve Substantial Completion of the work no later than **One Hundred Eighty (180)** calendar days. An additional **Thirty (30)** days shall be allowed for Final Completion.
- 1.22.2. Pre-construction activities shall include shop drawing submittals, equipment and material procurement, and obtaining all required permits.
- 1.22.3. Contractor shall request a Substantial Completion walkthrough with the Owner, Engineer, and Inspector. A satisfactory inspection is required prior to the Contractor being granted Substantial Completion.
- 1.22.4. Contractor shall request a Final Completion walkthrough with the Owner, Engineer, and Inspector. A satisfactory inspection is required prior to the Contractor being granted Final Completion.

1.23. LIQUIDATED DAMAGES

- 1.23.1. Should the Contractor fail to substantially complete work under this contract and make the area available for beneficial use on or before the date stipulated for substantial completion (or such later date as may result from extension of time granted by Owner), he shall pay Owner liquidated damages. The sum of TWO HUNDRED AND FIFTY DOLLARS **(\$250.00)** shall be paid for each consecutive **calendar day** beyond the contract substantial completion date, which sum has been agreed upon as a reasonable and proper measure of damages which Owner will sustain per diem by failure of contractor to complete work within time as stipulated. This payment shall not be construed as a penalty on the Contractor; it being recognized by Owner and contractor that the injury to the Owner which could result from a failure of Contractor to complete on schedule is uncertain.
- 1.23.2. For each consecutive **calendar day** that the work remains incomplete after the date established for Final completion, the Owner will retain from the compensation otherwise to be paid to the Contractor the sum of TWO HUNDRED AND FIFTY DOLLARS **(\$250.00)**. This amount is the minimum to complete all remedial work, correct deficient work, clean up the project and other miscellaneous tasks as required to complete all work specified. This amount is in addition to the liquidated damages prescribed above and shall not be construed as a penalty.

1.24. STANDARD AND SAFETY EQUIPMENT

- 1.24.1. At his expense, CONTRACTOR shall comply with all applicable OSHA, ADA, and FDOT regulations.

1.25. TAXES AND FEES

- 1.25.1. The Contractor shall pay all applicable sales, consumer, use and other similar taxes required by law. The Contractor is responsible for reviewing the pertinent State statutes involving the sales tax and complying with all requirements.

SECTION 33 05 07.13**HORIZONTAL DIRECTIONALLY DRILLED (HDD) PIPE INSTALLATION****PART 1 - GENERAL****1.01 THE REQUIREMENT**

- A. The CONTRACTOR shall furnish all labor, equipment and materials and perform all operations in connection with the complete installation of horizontally directionally drilled (HDD) pipe, as specified herein and as shown on the Drawings. The CONTRACTOR shall be responsible for coordinating work in this Section with related work specified elsewhere in this Contract, so as to provide all hardware and accessories for a complete installation. The CONTRACTOR shall be responsible for accurate alignment of the specified pipe plan and profile and monitoring of the drilling and pull-back operation.
- B. All parts of the materials furnished shall be amply designed, manufactured and constructed for the maximum stresses occurring during fabrication, erection and installation. All materials shall be of the very best quality, entirely suitable for the service to which they will be subjected and shall conform to all applicable Sections of these Specifications. Manufacturer's designs shall accommodate all the requirements of these Specifications.
- C. All available and known geotechnical reports, logs, borings, and laboratory testing performed within close proximity of the project corridor have been made available as "technical data" and not part of the Contract Documents. This is provided as information only and solely for the convenience of Bidders. The OWNER and/or the ENGINEER do not warrant or guarantee the accuracy or correctness of this material with respect to actual subsurface conditions. Subsurface conditions are considered unclassified and no expectation of quantity, specific location of ground conditions, or geotechnical baselines are provided or assumed herein.
- D. For all excavations and pipe installation techniques defined under this Section, CONTRACTOR shall install pipe using techniques and methods selected by the CONTRACTOR that are appropriate for prevailing ground conditions. CONTRACTOR shall review all available geotechnical reports and data and perform any additional soil investigations he deems necessary, at his own expense, for the planning and the selection of drilling techniques and methods in order to enable proper construction as shown on the Drawings and other requirements of Contract Documents.
- E. Where warranted in the experience of the CONTRACTOR or where identified on the Drawings, a conductor casing may be installed as part of the appropriate preparation for directional drilling activities to reduce risk of surface settlement and heaving, protect nearby structures and utilities, and reduce the likelihood of frac-outs. CONTRACTOR shall design and include in Bid furnishing of all labor, equipment, materials, and supplies necessary for the conductor casing including sizing and method of installation to meet project objectives specified herein.
- F. The HDD CONTRACTOR shall perform the work in general conformance with ASTM Standard F1962-20, current revision, "Standard Guide for Use of Maxi-Horizontal Directional Drilling for Placement of Polyethylene Pipe of Conduit under Obstacles, Including River Crossings."

1.02 SUBMITTALS

- A. The CONTRACTOR shall submit Shop Drawings, Material Certification, and other information as specified for all materials in this Section. Submittals shall include:
1. Qualifications: HDD bore subcontractor's qualifications and experience as outlined in this Section.
 2. Daily Project and Guidance System Logs: Example logs should be provided in the submittals phase, though actual logs shall be submitted on a daily basis during construction. Plot the horizontal and vertical location of the pilot bore at intervals not to exceed 20 feet.
 3. Manufacturer's Data for the pipe materials, MJ adapters/fittings and pipe joining materials proposed for use.
 4. Butt Fusion Reports.
 5. As-Built Records of Pilot Hole: The directional boring CONTRACTOR shall submit pilot hole as-builts in accordance with the requirements stated herein.
 6. As-Built Records of Bore: The directional boring CONTRACTOR shall submit certification, by a Professional Engineer or Professional Surveyor and Mapper licensed in the State of Florida, that the directional boring has been performed in accordance to the construction drawings, and provide signed and sealed certified record drawings of the installation, X, Y, and Z coordinates at maximum 20 feet intervals.
 7. Hydrostatic Testing Results
- B. Bore Plan: Prior to beginning work, the CONTRACTOR must submit to the ENGINEER a report of installation procedures, subsurface soil conditions, and water depth as they exist along the path of the proposed installation. The report will ensure that the subsurface conditions are known to the CONTRACTOR and that his proposed crossing procedure is based on factual information. CONTRACTOR should probe soils and/or conduct soil borings along drill path to the extent deemed necessary by CONTRACTOR to provide sufficient information for construction. The report shall include the following:
1. Calculations
 - a. Calculations shall be submitted to demonstrate that the pipe thickness design is sufficient to meet all design criteria specified. Calculations should demonstrate maximum allowable pulling load on HDPE pipe string.
 - b. Submit an estimate of the anticipated pullback thrust and load that will be required to install the new pipe. The estimate shall include the calculated buoyant force or weight of the pipe and any proposed method for counter-weighting the pipe during pullback.
 - c. CONTRACTOR shall submit detailed design calculations for several representative loading conditions for the proposed crossing.
 - d. All calculations shall be signed and sealed by a Professional Engineer registered in the State of Florida.

2. Drawings: Submit signed and sealed scaled plan and profile of the proposed bore. The drawing should include the same horizontal and vertical scale as the Contract Drawing showing the proposed HDD borepath and final pipeline configuration of vertical and horizontal curves including the following characteristics:
 - a. Location of entry/exit pits
 - b. Size, footprint, and dimensions of all equipment (including fusion equipment) and other staging areas
 - c. An estimate of time proposed to complete each bore.
 - d. The proposed vertical and horizontal clearances between the bored pipe and any existing / proposed conflicting pipes, conduits or obstructions shall exceed the guidance system accuracy by a minimum of 200% of tolerance.
 - e. Proposed layout and type of erosion and sediment control
 - f. Location, size, and footprint of mixing equipment
 - g. Drill entry/exit angles
 - h. Drill length
 - i. Depth of proposed cover under each road and obstacle crossing
 - j. Bore path including pilot and reaming diameters
 - k. Radiuses of pilot bore
 - l. Direction of drill
 - m. The use of conductor barrels (if applicable)
 - n. Length of extra pipe
 - o. Length to reach depth of cover (L2)
 - p. Length traversed at depth (L3)
 - q. Length to rise from depth of cover (L4)
 - r. Bending radius at pipe entry
 - s. Bending radius at pipe exit
3. Frac-out Plan: Submit a detailed “frac-out” or drilling fluid loss plan. The plan shall detail the drilling fluids utilized as well as procedures for identification of drilling fluid loss and drilling fluid clean up where identified along at grade surfaces to especially include surface water bodies and environmentally sensitive areas. The plan shall include the following minimum criteria:
 - a. All inadvertent returns or spills shall be promptly contained and cleaned up. The Contractor shall immediately notify the OWNER of any inadvertent returns or spills and immediately contain and clean up the return or spill.
 - b. Operational contingency measures as necessary to minimize the likelihood of drilling fluid discharges such as: monitoring and controlling drilling fluid

circulation pressures; appropriately sizing and cleaning of the piloted borehole to remove blockages preventing the return circulation of drilling fluids; restructuring of returns to a controlled area to be separately pumped or vacuumed by truck; and monitoring gauge pressure by logging differential pressure per rod installed to identify potential “plug-offs” where the bore hole formation will eventually be destabilized if not corrected.

- c. Drilling and clean-up procedures in the event of a surface fracture to include: personnel dedicated to monitoring flow patterns and rates to proactively identify lost-circulation, perform periodic inspection of the alignment and communicate findings to supervisor, and/or to control and cleanup; materials and equipment such as a vacuum truck and back-hoe stationed onsite to install silt fencing, hay bales, floating turbidity curtains, and/or temporary pits and berms; stoppage procedures in place for all activities that potentially contribute to the further discharge of drilling fluids; and proper disposal procedures for waste fluids and cuttings from all HDD activities.
4. Equipment: Submit a list of equipment with manufacturer’s literature expected to be used for the directional bore, including special equipment and materials required for various in-situ conditions. To include: drilling rig, mud mixing system, mud motors (if applicable), down-hole tools, separation system, rig safety systems, and HDPE butt fusion equipment. Drill rig information should include thrust and torque capacities.
 5. Guidance: Submit locating equipment proposed for use, the method of locating to be used, and the proposed sequence and method of construction for approval by the ENGINEER. Include information on how the bore is to be steered, the information recorded, and the as-built provided. The drilling company shall be responsible for accurate alignment of the specified pipe plan and profile and monitoring of the drilling and pull-back operation to the satisfaction of the OWNER.
 6. Drilling Plan: Submit a drilling plan which shall include the planned drill bore path, the method for monitoring and controlling speed, line, grade and rate of fluids delivered. Include sequence, size and description of each reamer and final swabbing of bore path prior to pullback. Plan should include the proposed bore hole size, proposed drilling fluid mix design and composition and MSDS, proposed viscosity, fluid quantities, delivery volume and pressure, method of soil / slurry separation, and proposed pre-ream procedures.
 7. Drilling Fluid: Submit detailed technical information, specifications, and MSDS for selected drilling fluids and additives. Submit method of storing, transporting, and disposing of cuttings and drilling fluid. Methods shall not impact waterways or wetlands and shall be in accordance with all regulatory agencies.
 8. Pipe Assembly and Staging: Proposed plan for assembling and staging the pipe string prior to and during pullback. Information should include: procedure for assembling pipe, location of proposed assembly area, and fusion equipment, procedure for moving assembled pipe to pullback location. Size, spacing, and locations of pipe stands and/or equipment used to lift staged pipe over obstacles/driveways should also be included.
 9. Hydrostatic Testing Plan: Submit testing plan for ~~partially (or fully) assembled pipe strings prior to pull back and after pull-back.~~

10. Schedule: Submit a time schedule for completing each directional bore, including any delays due to particular soil conditions.
11. Staging Area Layout.

1.03 MANUFACTURERS

- A. The materials covered by these Specifications are intended to be standard materials of proven reliability and as manufactured by reputable manufacturers having experience in the production of such materials. The materials furnished shall be designed, constructed, and installed in accordance with the best practices and methods.

1.04 QUALIFICATIONS

- B. Bidder must provide written evidence at time of bid of meeting qualifications herein pertaining to the directional drilling work they intend to self-perform. If Bidder intends to use a Subcontractor to perform any drilling activities, written evidence of the subcontractor's ability to meet the qualifications herein pertaining to that activity must also be provided at time of bid. Include the names of the contracts, the contract award amounts, the length and time required for completion of each segment of directional drill (include setup, drilling and pullback), size of pipe, and the names, addresses and telephone numbers of the owners. No award will be made to any Bidder and his selected agents that cannot meet all of the following requirements:
 1. HDD Contractor shall have a minimum of five (5) years of experience in HDD pipeline applications.
 2. CONTRACTOR shall have experience in at least three (3) similar projects in the past five (5) years where CONTRACTOR was responsible for installing pipelines by directional drill across water bodies or FDOT roadways. For each of these projects, the minimum pullback diameter shall be twelve (12) inches and the minimum boring distance shall be 500 feet.
 3. The HDD CONTRACTOR shall provide written evidence of successful project experience, minimum one (1) directional drilling project, for each of the following conditions. Evidence can be in the form of a single project or separate projects as needed to meet the following:
 - a. Performed in close proximity to commercial businesses and facilities.
 - b. Effectively contained and immediately responded to inadvertent returns in accordance with the project's frac-out contingency plan.
 - c. Performed in similar soils to those of this project
- C. Horizontal directional drilling ("HDD") Supervisor shall demonstrate recent (within the last 3 years) direct experience in successfully completing HDD projects of a similar pipe size, length, and complexity.
- D. Operators of the drill rig shall demonstrate a minimum of 12 months experience in the operation of the proposed drill rig.

1.05 JOB CONDITIONS

- A. The OWNER shall obtain legal access to the project site as necessary for construction activities. CONTRACTOR shall be responsible for construction relating to accessing the project site as directed by the OWNER and ENGINEER.
- B. CONTRACTOR shall comply with all special conditions as stated in the permits.
- C. CONTRACTOR shall secure a site for disposal of drilling spoils. CONTRACTOR shall submit information regarding site for disposal including agreements for disposal and all necessary permits required for disposal.

PART 2 - PRODUCTS**2.01 EQUIPMENT**

- A. General: All equipment in the directional bore shall have the capacity, stability, and necessary safety features required to fully comply with the specifications and requirements of this section without showing evidence of undue stress or failure. It shall be the responsibility of the CONTRACTOR to assure that the equipment to be used in the directional bore is in sound operating condition. Backup equipment may be required in the event of an equipment breakdown and where the condition of the equipment to be used indicates that routine component replacement or repair will likely be necessary during the directional bore.
- B. Directional Drilling System: The directional drilling equipment shall consist of truck-mounted field power unit and a trailer or dolly-mounted drill unit. A minimum crew of three people is required to operate the units. All tunneling system components shall be in sound operating condition with no broken welds, excessively worn parts, badly bent, or otherwise misaligned components. All ropes, cables, clamps, and other non-mechanical but essential items shall be in sound condition and replaced immediately when need is apparent.
 - 1. Field Power Units: The field power unit shall be a self-contained system designed to provide a supply of high-pressure cutting fluid to the drill unit. It shall contain two fluid storage tanks and two complete mixing systems. The cutting fluid is to be mixed on site without the need for an external water supply. It shall permit changes to be made to the drilling fluid concentration during tunneling in response to changing soil conditions. The field power unit shall contain the power-taken off-driven high-pressure drilling fluid pumping system.
 - 2. Directional Drill System: A dolly-mounted version of the drill system shall include a thrust frame. Both the trailer-mounted and dolly-mounted drill systems shall be designed to rotate and push 10-foot (3-meter) minimum hollow drill sections into the tunnel being created by the boring head. The drill sections may be made of high-strength steel, which permits them to bend to a 30-foot (9-meter) radius without yielding. Drill end fittings shall permit rapid make-up of the drill sections while meeting the torque, pressure and lineal load requirements of the system. The boring head itself shall be capable of housing a probe used by the guidance system to determine tool depth and location from surface and to orient the head for steering.

3. Restrictions: Other devices or utility placement systems for providing horizontal thrust, other than those previously defined in the preceding Sections, shall not be used unless approved by the ENGINEER prior to commencement of the work. Consideration for approval will be made on an individual basis for each specified location. The proposed device or system will be evaluated prior to approval or rejection on its potential ability to complete the utility placement satisfactorily without undue stoppage and to maintain line and grade within the tolerances prescribed by the particular condition of the project. Water sluicing methods, jetting with compressed air, or boring or tunneling devices with vibrating type heads that do not provide positive control of the line and grade shall not be allowed.
- C. Drilling Fluid (Mud) System & Spoils Equipment: A self-contained, closed, drilling fluid mixing system shall be of sufficient size to mix and deliver drilling fluid. Mixing system shall continually agitate the drilling fluid during operations. Connections between the pump and drill pipe shall be relatively leak free.
1. Used drilling fluid and drilling fluid spilled during drilling operations shall be contained and conveyed to the drilling fluid recycling system. Pumps and/or vacuum trucks of sufficient size shall be in place to convey excess drilling fluid from containment areas to storage and recycling facilities.
 2. CONTRACTOR shall provide a mud cleaning system of sufficient capacity to handle expected slurry quantities for this project. The recycling system shall separate sand, dirt, and other solids from the drilling fluid to render the drilling fluid re-usable. Spoils separated from the drilling fluid will be stockpiled for later use or disposal.
 3. CONTRACTOR shall provide a rigid tank of suitable material as a return tank for recovered slurry. Lined slurry pits will not be acceptable.
 4. CONTRACTOR shall provide a rigid tank of suitable material as a temporary containment tank for clarified water from the slurry separation equipment. The containment tank shall hold clarified water until it can be pumped back into the outfall line for disposal. Lined pits will not be acceptable.
- D. Guidance System: A Magnetic Guidance System (MGS) probe and tracker or Gyroscopic system shall be used to continuously monitor the location of the drill head during the drilling operation. The guidance shall be capable of tracking at all depths up to eighty feet and in any soil condition, including hard rock. It shall enable the driller to guide the drill head by providing immediate information on the tool face, azimuth (horizontal direction), and inclination (vertical direction). The guidance shall be accurate to +/-2% of the vertical depth of the borehole at sensing position at depths up to eighty feet and accurate to two (2) feet horizontally. The guidance system shall be of a proven type and shall be operated by personnel trained and experienced with the system. The operator shall be aware of magnetic anomalies on the surface of the drill path and shall consider such influences in the operation of the guidance system if using a magnetic system.
1. The MGS shall be a licensed and approved wire guidance system and shall be set up and operated by personnel experienced with this system. CONTRACTOR shall provide the ENGINEER with current calibration certification of MGS in accordance with manufacturer's specifications. The CONTRACTOR shall supply all components and materials to install, operate, and maintain the MGS. This shall include, but not

be limited to the following:

- a. MGS Probe and Interface
 - b. Computer, Printer, and Software
 - c. DC Power Source, Current Control Box, and Coil/Tracking Wire.
2. The boring tool shall have steering capability and have an electronic tool detection system. The position of the tool during operation shall be capable of being determined accurately, horizontally within 1% of the horizontal distance of the borehole and vertically within 2% of the vertical depths of the borehole. ~~The boring tool shall have a nominal steering radius of 30 feet.~~
 3. Bore Tracking and Monitoring: At all times during the pilot bore the CONTRACTOR shall provide and maintain a bore tracking system that is capable of accurately locating the position of the drill head in the X, Y and Z axes. The CONTRACTOR shall record these data at least once per drill pipe length or every twenty (20) feet, whichever is most frequent, and the data logged shall be tied to the surface grid tracking system. **If the OWNER and the ENGINEER allow a “walk-over” system to be utilized, the CONTRACTOR shall mark or stake the horizontal location of the bore at the frequency noted above for field-survey of as-built location.**
 4. Downhole and Surface Grid Tracking System: CONTRACTOR shall monitor and record X, Y, and Z coordinates relative to an established surface survey benchmark and baseline stationing that is tied to existing, fixed and visible sight features. The survey baseline shall be referenced to the project’s specified horizontal and vertical datums. The data shall be continuously monitored and recorded at least once per drill pipe length or every twenty (20) feet, whichever is more frequent.
 5. Deviations: All deviations between the recorded and design bore path shall be calculated and reported on the daily log. If the deviations exceed +/- 2% of the vertical depth of the borehole at sensing position and/or two (2) feet horizontally from the design path, such occurrences shall be immediately reported to the OWNER and the ENGINEER. The CONTRACTOR shall undertake all necessary measures to correct deviations and return to design line and grade. **Bore paths with regional high spots will be rejected.**

E. Instrumentation:

1. Drilling Fluid: Provide and maintain instrumentation which will accurately locate the pilot hole and measure drilling fluid flow discharge rate and pressure. Fluid flow rates and pressures shall be monitored and recorded by the CONTRACTOR during pilot bore drilling, reaming and pullback operations. Allow the OWNER access to these instruments and their readings at all times. Plot the horizontal and vertical location of the pilot bore at intervals not to exceed 10 feet.
2. Pullback Force: If equipment proposed is rated for a maximum thrust greater than 85% of the published safe pull load (at 12 hours) for the product pipe, CONTRACTOR shall provide an in-line pull force monitoring device (i.e. strain gauge) to monitor pullback force during pullback. Alternatively, a breakaway coupling may be utilized.

2.02 HDPE PIPE AND ACCESSORIES

- A. High density polyethylene (HDPE) pipe shall conform to the contract documents.
- B. Pipe pulling bell assemblies shall be designed and furnished by pipe manufacturer. The pulling bell assemble shall have the same performance characteristics as the pipe to which it is connecting. They shall also be fabricated with filling/testing ports, of appropriate size, for testing of the pipe after it is pulled through the bore path. For pipe that is installed using the Assembled Line method, described as follows, the pulling bell may also be used to test the pipe prior to pull back.
- C. The manufacturer shall have representative proof-of-design tests of flexible restrained pipe joints as well as of the pipe pulling bell assemblies that establish the basis for the maximum allowable pulling loads indicated herein.
- D. Two #6 AWG stranded copper wires with blue insulation (for water) shall be installed with the pipeline for pipeline locating purposes. The wire shall be terminated in a wire access box with ground rods as required at both ends. If bored, the CONTRACTOR shall attach the wire to the HDPE pipe in such a way as to not break the wire during the pullback of the pipe.

2.03 DRILLING FLUIDS

- A. CONTRACTOR shall select drilling fluids appropriate for this application and submit detailed technical information and specification on selected drilling fluids for approval by the ENGINEER prior to use. CONTRACTOR shall select drilling fluids suitable for soil conditions at the site. All drilling fluids shall be easily flushed from the pipe and screen after installation to ensure proper screen development and to prevent clogging of screen.
- B. All drilling fluids shall be environmentally safe, non-corrosive, and not harmful to installed components.
- C. Disposal of fluids is the responsibility of the CONTRACTOR. Dispose of fluids in a manner that is in compliance with all permits and applicable federal, state and local regulations.

PART 3 - EXECUTION

3.01 GENERAL

- A. Install HDPE pipe by directionally controlled horizontal drilling. This process includes drilling a small diameter pilot hole in a vertical arc from the rig side to the pipe side, and then reaming out the hole until the water main can be pulled through for a complete installation.
- B. The CONTRACTOR shall be responsible for the design, adequacy and methodology of the bored pipe installation.
- C. A competent and experienced supervisor for the HDD CONTRACTOR must be present at all times during drilling operations.
- D. All excavations and pits shall be well sheeted and braced as necessary for safe and adequate access for workmen, inspections, and materials and shall be of a size suitable to equipment and material handling requirements.
- E. The CONTRACTOR may, at their option, use a starter casing at the entry and exit point of the HDD. The dimensions of the starter casing shall be as needed to adequately protect

existing utilities and infrastructure.

- F. The following is a sequence of steps must be adhered to for the directional bore operation:
1. Track out the boring path (enter, push through, and exit the ground). Great care must be taken to cease pumping of drilling fluid as soon as the drill head exits the ground to minimize spilling of drilling fluids.
 2. Pull back the utility pipe through the boring path with a back reamer leading the pipe.
 3. Flush out pipeline until bentonite slurry, other drilling fluids, and fines have been removed from around the pipeline.
- G. If equipment breakdown or other unforeseen stoppages occur and forward motion of the directional cutting head is halted at any time other than for reasons planned in advance (addition of drill stems, etc.), the boring path shall be filled with a proper bentonite solution immediately, or as directed by the ENGINEER.

3.02 HDPE PIPE

- A. High density polyethylene (HDPE) pipe shall be installed to the requirements of the contract documents.
- B. After the directionally drilled pipe has been successfully installed, allow the pipe to recover for 24 hours prior to making further connection to new or existing systems. The CONTRACTOR is responsible for ensuring that a sufficient length of the pipe has been pulled through the hole so that the pull-nose is not pulled back into the bore hole due to stretch recovery of the pipe.
- C. Completed installation shall be subject to hydrostatic test as required herein.

3.03 PILOT HOLE

- A. The pilot hole shall be drilled along the path shown on the construction Plans to the following tolerances:
 1. Elevation: Plus zero (0) feet, minus five (5) feet. Provide minimum cover below roads, and channel bottom as specified on the plans.
 2. Separation from Utilities: 24" minimum, outside of existing pipe to outside of final borehole.
 3. Alignment: Plus or minus three (3) feet, or where more stringent as specifically indicated on the Plans.
 4. Radius: the minimum allowable radius is 30 feet times the pipe outside diameter in inches, or where more stringent as specifically indicated on the Plans.
 5. Entry Point Location: The pilot hole shall initially penetrate the ground surface at the exact location intended.
 6. Exit Point Location: The pilot hole shall finally penetrate the ground surface within plus or minus three (3) feet of the alignment shown in the construction drawings and

within plus or minus five (5) feet of the length shown on the Plans.

- B. Prior to drilling confirm all utility locations and elevations for utilities crossed by directional drill. If utility cannot be exposed due to depth, contact utility owner to verify depth. If drilling within 3 feet of an existing parallel utility, the utility must be physically exposed at least every 25 feet.
- C. At the completion of pilot hole drilling, CONTRACTOR shall provide a tabulation of coordinate references to the drilled entry point which accurately describe the alignment and grade of the pilot hole. Submit a layout at a scale of 1 in. = 20 ft. horizontal and vertical or the actual installed location of the pipeline.
- D. In the event that pilot does deviate from the bore path more than allowable tolerances, CONTRACTOR will notify the ENGINEER who may require the CONTRACTOR to pull-back and re-drill from the location along bore path before the deviation.
- E. **Upon completion of pilot hole phase of the operation, a complete set of "as-built" records shall be submitted in duplicate to the ENGINEER. Pilot bore path record drawings will be reviewed within 24 hours of submittal.** These records shall include copies of the pilot bore path plan and profile record drawing, as well as directional survey reports as recorded during the drilling operation. Upon approval of the pilot hole location by the ENGINEER and OWNER the hole opening or enlarging phase of the installation shall begin. Reaming of the pilot hole will not proceed until approval from the ENGINEER/OWNER.

3.04 HDD INSTALLATION

- A. Pre-reaming operations shall be conducted at the discretion of the horizontal drilling CONTRACTOR. All provisions of this specification relating to simultaneous reaming and pulling back operations shall also pertain to pre-reaming operations.
- B. All back reaming must utilize trailing rods.
- C. A swivel shall be used to connect the pipeline pull section to the reaming assembly to minimize torsional stress imposed on the section.
- D. The pull section shall be supported as it proceeds during pull back so that it moves freely and the HDPE pipe is not damaged or overstressed.
- E. Disposal of drilling fluids, at approved off-site locations, shall be the responsibility of the CONTRACTOR and shall be conducted in compliance with all pertinent environmental regulations, right-of-way and workspace agreements and permit requirements. Disposal of drilling fluids into drainage courses shall not be allowed.
- F. Drilling fluid returns at locations other than the entry and exit points shall be minimized. CONTRACTOR shall immediately clean-up inadvertent returns. Do not allow drilling mud to flow freely on the site or around the entrance or exit pits. Remove spilled mud and restore ground to original condition. Assembly pit shall be constructed in accordance with other applicable Sections of the Contract. Construction to take care to not excavate pit larger than required for HDD HDPE installation. All soil erosion measures must be in place prior to excavating pit.

- G. Pipe rollers shall be of sufficient size to fully support the weight of the pipe ~~while being hydro-tested and~~ during pull-back operations. Sufficient number of rollers shall be used to prevent excess sagging of pipe.
- H. If any driveways or access roads are to be blocked by the pipe, the CONTRACTOR shall provide overhead roll-type pipe stands to elevate the pipe to such a height as to allow access into the driveways and/or access roads. CONTRACTOR shall submit the proposed layout location for approval.
- I. The handling of the assembled pipeline shall be in such a manner that the pipe is not damaged by dragging it over sharp or cutting objects. Slings for handling the pipeline shall not be positioned at pipe joints. Sections of the pipes with cuts and gouges or excessive deformations shall be removed and replaced.

3.05 QUALITY CONTROL

- A. CONTRACTOR shall take care not to damage any materials during HDD operations. All pipes shall be visually inspected for gouges. Gouges in excess of 10 percent of the pipe wall thickness are not acceptable. In areas where excessive gouges are present, the affected pipe section shall be cut out and the remaining pipe butt fused to make a continuous section.
- B. The angle of ramp approaches shall be carefully considered/controlled to keep joint articulation to within allowable deflection limits of the pipe joints.
- C. After installation of the pipeline, conduct an internal inspection of the pipeline, in the presence of the ENGINEER, using a mandrel or pipeline pig designed for that purpose to demonstrate that the pipe has not collapsed or deflected excessively. The outside diameter of the mandrel or pig shall be minimum 90 percent of the pipeline internal diameter. Devices pulled through the water main shall be designed to prevent damage to the HDPE pipe.
- D. The MGS as-built data shall be recorded at the intervals stated herein during the actual crossing operation. The CONTRACTOR shall furnish "As-Built" plan and profile drawings based on these recordings showing the actual location horizontally and vertically of the installation and all utility facilities found during the installation.
- E. The CONTRACTOR shall hydrostatically test the pipeline(s) in accordance with contract documents.
- F. In the event of failure to install the directionally drilled pipelines, the CONTRACTOR shall retain possession of any CONTRACTOR-supplied HDPE pipe and remove it from the site. The bore holes shall be completely filled with grout. If the pipe cannot be removed from the bore hole, it shall be cut off 5 feet below ground, and the pipe and annular space shall be grouted.

- END OF SECTION -

EXHIBIT B CONSTRUCTION STANDARDS

SECTION 1 THE WORK

A. **PERFORM ALL WORK.**

CONTRACTOR shall perform all Work required, implied or reasonably inferable from, this Agreement.

B. **“WORK” DEFINED.**

The term “Work” shall generally mean whatever is done by or required of CONTRACTOR to perform and complete its duties under this Agreement, including the following: construction of the whole or a designated part of the Project; acquiring, recording, and 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 CONTRACTOR, fuel, heat, light, cooling and all other utilities as required by this Agreement. Work to be performed by CONTRACTOR is generally described as being according to the plans and specifications furnished by COUNTY.

SECTION 2 RETAINAGE

A. **STATUTE GOVERNS.**

Retainage amounts for construction services shall be in accordance with §218.735, F.S.

B. **AMOUNT REQUIRED.**

For contracts in excess of Two Hundred Thousand Dollars (\$200,000), COUNTY may retain from each progress payment made to CONTRACTOR an amount not exceeding five (5%) percent of the payment as retainage.

C. **DOES NOT APPLY IN LIMITED CIRCUMSTANCES.**

This retainage does not apply to construction services paid for, in whole or in part, with Federal funds and are subject to Federal grantor laws and regulations or requirements that are contrary to any provision of the Local Government Prompt Payment Act, Sections 218.70-218.80, F.S.

D. **WITHHELD UNTIL FINAL COMPLETION.**

Retainage shall be withheld until the Project has reached final completion and is accepted by COUNTY. Final completion is defined as having all Work completed, all punch list items corrected, and final inspection completed and accepted by COUNTY. Upon final completion, CONTRACTOR shall submit the final payment application requesting release of retainage along with Waivers of Right to Claim Against the Payment Bond (Final Payment) from all subcontractors, as defined in F.S. 713.01, who performed Work on the Project. Retainage shall not be fully released until all Waivers of Right to Claim Against the Payment Bond (Final Payment) have been submitted to COUNTY.

SECTION 3 PAYMENT OF THE AGREEMENT PRICE

A. **PROGRESS PAYMENTS.**

COUNTY shall pay the Agreement Price by making progress payments to CONTRACTOR as provided below.

B. **PAYMENT PROCEDURE.**

PROGRESS PAYMENTS – Based upon CONTRACTOR’s Application for Payment submitted to the Architect and/or Engineer and upon Certificates for Payment subsequently issued to COUNTY by the Architect and/or Engineer, COUNTY shall make progress payments to CONTRACTOR on account of the Agreement Price.

C. **APPLICATION FOR PAYMENT.**

On or before the 25th day of each month after commencement of the Work, CONTRACTOR shall submit an Application for Payment for the period ending the last working day of the month to the Architect and/or Engineer in such form and manner, and with such supporting data and content, as COUNTY or the Architect and/or Engineer may require. Therein, CONTRACTOR may request payment for that portion of the Agreement Price properly allocable to Agreement requirements properly provided, labor, materials and equipment properly incorporated in the Work plus that portion of the Agreement Price properly allocable to materials or equipment properly stored on-site (or elsewhere if approved in advance in writing by COUNTY) for subsequent incorporation in the Work, less the total amount of previous payments received from COUNTY.

1) **CONTRACTOR'S REPRESENTATION.**

Payment for stored materials and equipment shall be conditioned upon CONTRACTOR's proof satisfactory to COUNTY, that COUNTY has title to such materials and equipment and shall include proof of required insurance. Such Application for Payment shall be signed by CONTRACTOR and shall constitute CONTRACTOR's representation that the Work has progressed to the level for which payment is requested in accordance with this Agreement, that the Work has been properly installed or performed in full accordance with this Agreement, and that CONTRACTOR knows of no reason why payment should not be made as requested, thereafter, the Architect and/or Engineer will 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.

2) **PAYMENT.**

COUNTY shall make progress payments on account of the Agreement Price to CONTRACTOR in accordance with The Local Government Prompt Payment Act, §§218.70-218.80, F.S. following the Architect's and/or Engineer's receipt of each Application for Payment. The amount of each progress payment shall be the amount certified for payment by the Architect and/or Engineer less such amounts, if any, otherwise owing by CONTRACTOR to COUNTY or which COUNTY shall have the right to withhold as authorized by this Agreement. The Architect's and/or Engineer's certification of CONTRACTOR's Application for Payment shall not preclude COUNTY from the exercise of any of its rights as set forth in this Agreement.

D. **WARRANTS TITLE.**

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

E. **PAY SUBCONTRACTOR.**

CONTRACTOR shall promptly pay each subcontractor on account of such subcontractor's work, the amount to which such subcontractor is entitled. In the event COUNTY becomes informed that CONTRACTOR has not paid a subcontractor as herein provided, COUNTY shall have the right, but not the duty, to issue future checks in payment to CONTRACTOR of amounts otherwise due hereunder naming CONTRACTOR and such subcontractor as joint payees. Such joint check procedure, if employed by COUNTY, shall create no rights in favor of any person or entity beyond the right of the named payees to payment of the check and shall not be deemed to commit COUNTY to repeat the procedure in the future.

F. **NOT ACCEPTANCE OF WORK.**

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

G. **WITHHELD PAYMENT.**

- 1) COUNTY 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 CONTRACTOR, to protect COUNTY from loss because of:
 - (a.) Defective Work not remedied by CONTRACTOR nor, in the opinion of COUNTY, likely to be remedied by CONTRACTOR;

- (b.) Claims of third parties against COUNTY or COUNTY's property or reasonable evidence indicating probable filing of such claims;
 - (c.) Failure by CONTRACTOR to pay subcontractors or others in a prompt and proper fashion;
 - (d.) Evidence that the Work cannot be completed in accordance with this Agreement for the unpaid balance of the Agreement Price;
 - (e.) Evidence that the Work will not be completed in the time required for Substantial Completion or Final Completion;
 - (f.) Persistent failure to carry out the Work in accordance with the Contract Documents; or
 - (g.) Damage to COUNTY or a third party to whom COUNTY is, or may be, liable.
- 2) In the event that COUNTY makes written demand upon CONTRACTOR for amounts previously paid by COUNTY, CONTRACTOR shall promptly comply with such demand.

H. **UNEXCUSED FAILURE TO PAY.**

If within ten (10) days after the date established herein for COUNTY's payment to CONTRACTOR, without cause or basis hereunder, fails to pay CONTRACTOR any amount then due and payable to CONTRACTOR, then CONTRACTOR may after seven (7) additional days written notice to COUNTY and the Architect and/or Engineer, and without prejudice to any other available rights or remedies it may have, stop the Work until payment of those amounts due from COUNTY have been received. Any payment not made within ten (10) days after the date due shall bear interest at the rate of one and a half percent (1.5%) per annum.

SECTION 4
COUNTY

A. **WRITTEN AND TANGIBLE MATERIAL.**

COUNTY shall furnish to 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 CONTRACTOR only in order to make complete disclosure of such material and for no other purpose. By furnishing such material, COUNTY does not represent, warrant, or guarantee its accuracy either in whole, in part, implicitly or explicitly, or at all, and shall have no liability therefore. COUNTY shall also furnish surveys, legal limitations and utility locations (if known), and a legal description of the Project site.

B. **APPROVALS; EASEMENTS.**

Excluding permits and fees normally the responsibility of CONTRACTOR, COUNTY shall obtain all approvals, easements, and the like required for construction and shall pay for necessary assessments and charges required for construction, use or occupancy of permanent structures or for permanent changes in existing facilities.

C. **COPIES OF CONTRACT DOCUMENTS.**

COUNTY shall furnish CONTRACTOR, free of charge, four (4) copies of the Contract Documents for execution of the Work. CONTRACTOR will be charged, and shall pay COUNTY, all actual costs for each additional set of the Contract Documents which it may require.

D. **RIGHT TO STOP WORK.**

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

E. **COUNTY'S RIGHT TO PERFORM WORK.**

If CONTRACTOR's Work is stopped by COUNTY and CONTRACTOR fails within seven (7) days of such stoppage to provide adequate assurance to COUNTY that the cause of such stoppage will be eliminated or corrected, then COUNTY may, without prejudice to any other rights or remedies COUNTY may have against CONTRACTOR, proceed to carry out the subject Work. In such a situation, an appropriate Change Order, defined herein, shall be issued deducting from the Agreement Price the cost of correcting the subject deficiencies, plus compensation for the Architect's and/or Engineer's additional services and expenses necessitated thereby, if any. If the unpaid portion of the Agreement Price is insufficient to cover the amount due COUNTY, CONTRACTOR shall promptly pay the difference to COUNTY.

F. **TIME FOR CORRECTION.**

Any defects or deficiencies in materials or workmanship that are deemed by the Architect and/or Engineer or the COUNTY as needing immediate correction shall be addressed within thirty (30) days of written notification. Failure to correct the deficiencies within thirty (30) days will result in the deduction of time against the overall Contract Time for completion.

**SECTION 5
CONTRACTOR**

A. **CONTRACTOR DUTY.**

CONTRACTOR affirms its continuing duty to 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 CONTRACTOR performs any of the Work knowing it involves a recognized error, inconsistency or omission in the Contract Documents without such notice to the Architect and/or Engineer, CONTRACTOR shall bear the responsibility for such performance and shall bear the cost of correction.

B. **IN ACCORDANCE WITH THIS AGREEMENT.**

CONTRACTOR shall perform the Work strictly in accordance with this Agreement.

C. **RESPONSIBLE. FOR WORK.**

CONTRACTOR shall supervise and direct the Work using CONTRACTOR's best skill, effort and attention. CONTRACTOR shall be responsible to COUNTY for any and all acts or omissions of CONTRACTOR, its employees and others engaged in the Work on behalf of CONTRACTOR.

D. **WARRANTY.**

CONTRACTOR warrants to COUNTY that all labor furnished to progress the Work under this Agreement will be competent to perform the tasks undertaken, that the product of such labor will yield only first-class results, that materials and equipment furnished will be of good quality and new unless otherwise permitted by this Agreement, and that the Work will be of good quality, free from faults and defects and in strict conformance with this Agreement. All Work not conforming to these requirements may be considered defective. When not specifically identified in the bid documents, the warranty shall commence upon the date of COUNTY's issuance of final payment to CONTRACTOR and shall be for a period of one (1) year.

E. **PERMITS AND FEES.**

CONTRACTOR shall obtain and pay for all permits, fees and licenses necessary and/or ordinary for the Work. 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.

**SECTION 6
CONTRACT ADMINISTRATION
BY ARCHITECT and/or ENGINEER**

A. **REPRESENTATIVE OF COUNTY.**

The Architect and/or Engineer, unless otherwise directed by COUNTY in writing, will perform those duties and discharge those responsibilities allocated to the Architect and/or Engineer as set forth in the Contract Documents. The Architect and/or Engineer shall be COUNTY's representative from the effective date of this Agreement until a final Certificate for Payment is issued. The Architect and/or Engineer shall be authorized to act on behalf of COUNTY only to the extent provided in the Contract Documents.

B. **COMMUNICATE THROUGH ARCHITECT AND/OR ENGINEER.**

COUNTY and CONTRACTOR shall communicate with each other in the first instance through the Architect and/or Engineer.

C. **INTERPRETER; JUDGE.**

The Architect and/or Engineer shall be the initial interpreter of the requirements of the Contract Documents and the judge of the performance thereunder by CONTRACTOR. The Architect and/or Engineer shall render written or graphic interpretations necessary for the proper execution or progress of the Work with reasonable promptness on request of CONTRACTOR.

D. **CERTIFY PAYMENT.**

The Architect and/or Engineer will review CONTRACTOR's Applications for Payment and will certify to COUNTY for payment to CONTRACTOR those amounts then due CONTRACTOR as provided in this Agreement.

E. **AUTHORITY TO REJECT WORK.**

The Architect and/or Engineer shall have authority to reject Work that is defective or does not conform to the requirements of the Contract Documents. If the Architect and/or Engineer deems it necessary or advisable, the Architect and/or Engineer shall have authority to require additional inspection or testing of the Work for compliance with requirements of the Contract Documents.

F. **APPROVE SUBMITTALS.**

The Architect and/or Engineer will review and approve, or take other appropriate action as necessary, concerning CONTRACTOR's submittals including Shop Drawings, 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.

G. **CHANGE ORDER; FIELD ORDER.**

The Architect and/or Engineer will prepare Change Orders, defined herein, and may authorize minor changes in the Work by Field Order, defined herein, as provided elsewhere herein.

H. **DETERMINE BENCHMARKS.**

The Architect and/or Engineer shall, upon written request from CONTRACTOR, conduct inspections to determine the date of Substantial Completion and the date of Final Completion, will receive and forward to COUNTY for COUNTY's review and records, written warranties and related documents required by the Contract Documents and will issue a final Certificate for Payment upon compliance with the requirements of the Contract Documents.

I. **FINAL AS TO AESTHETICS.**

The Architect's and/or Engineer's decisions in matters relating to aesthetic effect shall be final if consistent with the intent of this Agreement.

J. **CLAIMS BY CONTRACTOR, NOTICE.**

All CONTRACTOR claims shall be initiated by written notice to COUNTY and the Architect and/or Engineer. Such written notice and claim must be furnished within seven (7) days after occurrence of the event, or the first appearance of the condition, giving rise to the claim.

K. **PROCEED; CHANGE ORDER.**

Pending final resolution of any claim of CONTRACTOR, CONTRACTOR shall diligently proceed with the Work and COUNTY shall continue to make payments to CONTRACTOR in accordance with this Agreement. The resolution of any claim under this subsection shall be reflected by a Change Order executed by COUNTY, the Architect and/or Engineer and CONTRACTOR.

L. **CLAIMS FOR CONCEALED AND UNKNOWN CONDITIONS.**

Should concealed and unknown conditions be 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 the Contract Documents, or should unknown conditions of an unusual nature differing materially from those ordinarily encountered in the area and generally recognized as inherent in work of the character provided for in the Contract Documents, be encountered, the Agreement 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 COUNTY having any liability to CONTRACTOR for concealed or unknown conditions, CONTRACTOR must

give COUNTY and the Architect and/or Engineer written notice and claim as provided in this subsection, and shall constitute a waiver by CONTRACTOR of any claim arising out of or relating to such concealed or unknown condition.

M. CLAIMS FOR ADDITIONAL COST.

If CONTRACTOR wishes to make a claim for an increase in the Agreement Price, as a condition precedent to any liability of COUNTY therefore, CONTRACTOR shall give the Architect and/or Engineer 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 CONTRACTOR before proceeding to execute any additional or changed Work. The failure by CONTRACTOR to timely give such notice and to give such notice prior to executing the Work shall constitute a waiver of any claim for additional compensation.

1) Direct Costs.

In connection with any claim by CONTRACTOR against COUNTY for compensation in excess of the Agreement Price, any liability of COUNTY for CONTRACTOR's cost shall be strictly limited to direct costs incurred by CONTRACTOR and shall in no event include indirect costs or consequential damages of CONTRACTOR. COUNTY shall not be liable to CONTRACTOR for claims of third parties, including Subcontractors, defined herein, unless and until liability of CONTRACTOR for claims of third parties has been established therefore in a court of competent jurisdiction.

N. CLAIMS FOR ADDITIONAL TIME.

If 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 COUNTY or someone acting in COUNTY's behalf, or by changes ordered in the Work, unusual delay in transportation, unusually adverse weather conditions not reasonably anticipatable, fire or any causes beyond CONTRACTOR's control, then the date for achieving Substantial Completion of the Work shall be extended upon the written notice and claim of CONTRACTOR to COUNTY and the Architect and/or Engineer, for such reasonable time as the Architect and/or Engineer may determine. Any notice and claim for an extension of time by CONTRACTOR shall be made not more than seven (7) days after the occurrence of the event or the first appearance of the condition giving rise to the claim and shall set forth in detail CONTRACTOR's basis for requiring additional time in which to complete the Project. In the event the delay to CONTRACTOR is a continuing one, only one notice and claim for additional time shall be necessary. If CONTRACTOR fails to make such claim as required in this subsection, any claim for extension of time shall be waived.

O. FIELD ORDERS.

In the field, the Architect and/or Engineer shall have authority to order minor changes in the Work not involving a change in the Agreement Price or Term and not inconsistent with the intent of this Agreement. Such changes shall be affected by field order ("Field Order") and shall be binding upon CONTRACTOR. CONTRACTOR shall carry out such Field Orders promptly.

SECTION 7
SUBCONTRACTORS

A. "SUBCONTRACTOR" DEFINED.

A Subcontractor is an entity which has a direct contract with CONTRACTOR to perform a portion of the Work.

B. AWARD OF SUBCONTRACTORS.

Upon execution of this Agreement, CONTRACTOR shall furnish COUNTY, in writing, the names of persons or entities proposed by CONTRACTOR to act as a Subcontractor on the Project. COUNTY shall promptly reply to CONTRACTOR, in writing, stating any objections COUNTY may have to such proposed Subcontractor. CONTRACTOR shall not subcontract with any Party to whom COUNTY has objections.

C. RIGHTS AGAINST SUBCONTRACTORS.

All subcontracts shall afford CONTRACTOR rights against the Subcontractor which correspond to those rights afforded to COUNTY against CONTRACTOR herein.

SECTION 8
CHANGES IN THE WORK

A. CHANGES PERMITTED.

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.

B. "CHANGE ORDER" DEFINED.

Change Orders shall mean a written order to CONTRACTOR executed by COUNTY and the Architect and/or Engineer, issued after execution of this Agreement, authorizing and directing a change in the Work or an adjustment in the Agreement Price or the Term, or any combination thereof. The Agreement Price and the Term may be changed only by Change Order. Changed Work cannot be started until a fully executed Change Order is on file with COUNTY; including but not limited to Change Orders that need approval of COUNTY's Board of County Commissioners.

C. HOW CHANGES ARE DETERMINED.

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

D. ALTERNATIVELY, REASONABLE EXPENDITURES.

If no mutual agreement occurs between COUNTY and CONTRACTOR as contemplated above, the change in the Agreement Price, if any, shall then be determined by the Architect and/or Engineer 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 Agreement Price, a reasonable allowance for direct job site overhead and profit. In such case, CONTRACTOR shall present, in such form and with such content as COUNTY or the Architect and/or Engineer requires, an itemized accounting of such expenditures or savings plus appropriate supporting data for inclusion in a Change Order. Reasonable 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 agreement or custom, and workers' compensation insurance, reasonable rental costs of machinery and equipment exclusive of hand tools whether rented from CONTRACTOR or others, reasonable costs of premiums for all bonds and insurance, permit fees, and sales, use or other taxes related to the Work, and reasonable cost of direct supervision and job site field office overhead directly attributable to the change. In no event shall any expenditure or savings associated with CONTRACTOR's home office or other non-job site overhead expense be included in any change in the Agreement Price. Pending final determination of reasonable expenditures or savings to COUNTY, payments on account shall be made to CONTRACTOR on the Architect and/or Engineer's Certificate for Payment.

E. UNIT PRICES EQUITABLY ADJUSTED.

If unit prices are provided in this Agreement, and if the quantities contemplated are so changed in a proposed Change Order that application of such unit prices to the quantities of changed Work proposed will cause substantial inequity to COUNTY or to CONTRACTOR, the applicable unit prices shall be equitably adjusted.

F. CHANGE ORDER EFFECT.

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

G. NOTICE; CONSENT.

CONTRACTOR shall notify and obtain the consent and approval of CONTRACTOR's surety with reference to all Change Orders if such notice, consent or approvals are required by CONTRACTOR's surety or by law. CONTRACTOR's execution of the Change Order shall constitute CONTRACTOR's warranty to COUNTY that

the surety has been notified of and consents to have expressly consented thereto. CONTRACTOR shall provide to the COUNTY a rider to the original bond as provided by the surety.

SECTION 9

UNCOVERING AND CORRECTING WORK

A. **UNCOVERING WORK.**

If any of the Work is covered contrary to the Architect's and/or Engineer's request or to any provisions of this Agreement, it shall, if required by the Architect and/or Engineer or COUNTY, be uncovered for the Architect and/or Engineer's inspection and shall be properly replaced at CONTRACTOR's expense without change in the Term.

B. **CORRECT WORK.**

CONTRACTOR shall immediately proceed to correct Work rejected by the Architect and/or Engineer as defective or failing to conform to this Agreement. CONTRACTOR shall pay all costs and expenses associated with correcting such rejected Work, including any additional testing and inspections, and reimbursement to COUNTY for the Architect's and/or Engineer's services and expenses made necessary thereby.

C. **WARRANTY.**

If within one (1) year after the date of COUNTY's issuance of final payment to CONTRACTOR any of the Work is found to be defective or not in accordance with this Agreement, CONTRACTOR shall correct it promptly upon receipt of written notice from COUNTY. This obligation shall survive final payment by COUNTY 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.

D. **NO ESTABLISHMENT OF LIMITATIONS OF TIME.**

Nothing contained in this Section shall establish any period of limitation with respect to other obligations which CONTRACTOR has under this Agreement. Establishment of the one year time period in this Section relates only to the duty of CONTRACTOR to specifically correct the Work.

SR 326 Water Main - From US 441 to CR
25A EXHIBIT D- SCHEDULE OF VALUES

ITEM	DESCRIPTION	QTY	UNIT	UNIT PRICE
1.0	GENERAL			
1.01	MOBILIZATION & DEMOBILIZATION	1	LS	\$30,000.00
1.02	INSURANCE AND PERMITS	1	LS	\$7,160.52
1.03	PAYMENT AND PERFORMANCE BOND	1	LS	\$84,971.47
1.04	MAINTENANCE OF TRAFFIC	1	LS	\$33,415.75
1.05	CONSTRUCTION SURVEY AND LAYOUT	1	LS	\$19,515.90
1.06	CERTIFIED AS-BUILTS DRAWINGS	1	LS	\$12,850.00
2.0	WATER MAINS			
2.01	16" PVC C900 DR 18	9420	LF	\$77.45
2.02	18" PVC C900 DR 18	10	LF	\$395.05
2.03	16" Class 350 Ductile Iron	80	LF	\$190.23
2.04	18" DR11 DIPS HDPE Directional Drill	620	LF	\$309.52
2.05	16" Gate Valve and Box	14	EA	\$7,420.00
2.06	16" 45° Fitting	13	EA	\$2,865.55
2.07	16" 22.5° Fitting	13	EA	\$2,551.31
2.08	16" 11.25° Fitting	48	EA	\$2,277.82
2.09	16"x16" Tee Fitting	1	EA	\$4,241.51
2.10	18" 11.25° Fitting	2	EA	\$3,375.00
2.11	18"x16" Reducer Fitting	2	EA	\$3,255.50
2.12	16" Plug Fitting	1	EA	\$1,646.73
2.13	Fire Hydrant Assembly	14	EA	\$6,500.00
2.14	Air Release Valve Assembly	7	EA	\$4,814.00
3.0	EROSION CONTROL			
3.01	SILT FENCING	8973	LF	\$5.39
3.02	INLET PROTECTION	6	EA	\$238.68
4.0	RESTORATION			
4.01	SOD	8973	LF	\$6.22
4.02	ASPHALT ROADWAY REMOVAL & TEMPORARY REPLACEMENT	74	LF	\$65.00
4.03	PERMANENT ASPHALT ROADWAY RESTORATION	552	SY	\$26.25
4.04	REMOVE & REPLACE ASPHALT DRIVEWAY/PARKING LOT	176	LF	\$270.00
4.05	REMOVE & REPLACE CONCRETE DRIVEWAY	197	LF	\$329.27
4.06	REMOVE & REPLACE SIDEWALK	425	SY	\$93.17
4.07	REMOVE & REPLACE DITCH BLOCK	19	EA	\$4,000.00
4.08	REMOVE & REPLACE CURB AND GUTTER	20	LF	\$122.78
5.0	ENVIRONMENTAL			
5.01	ENVIRONMENTAL SURVEY AND PERMITTING	1	LS	\$4,774.00
CONTINGENCY ITEMS				
C.01	GOPHER TORTOISE BURROW EXCAVATION	0	EA	\$775.72
C.02	GOPHER TORTOISE RELOCATION	0	EA	\$5,967.10
C.03	GOPHER TORTOISES TO BE BUCKET TRAPPED, PULLED, OR MONITORED	0	EA	\$132.00
C.04	REMOVE AND REPLACE UNSUITABLE MATERIAL WITH CLEAN FILL	0	CY	\$48.00
C.05	ROCK EXCAVATION	0	CY	\$72.00