ADDENDA

ADDENDUM NUMBER (1)

Date:2/10/2020_	
PROJECT: Jones Ferry Road WTP Finished	Water Distribution Resiliency Improvements
OWASA CIP NUMBER: <u>275-92</u>	
OWNER: ORANGE WATER AND SEWER A	UTHORITY
ENGINEER: <u>Hazen & Sawyer</u>	
To All Bidders:	
Contractors submitting proposals for the above changes, additions, deletions, clarifications, elecome a part of and have precedence over a Contract Documents, and all such shall be tall Contractor's Bid Proposal.	anything contrarily shown or described in the
This Addendum forms a part of the Contract I dated <u>Jan/2020</u> , Addendum Number <u>N/A</u> additions noted herein and below.	Documents and modifies the Bidding Documents issued <u>N/A</u> , with amendments and
Acknowledge receipt of this Addendum in the may disqualify the Bidder.	space provided in the Bid form. Failure to do so
This Addendum consists of <u>59</u> pages:	
has received this Addendum and has follo	munication will be deemed evidence the bidder wed the instructions outlined herein. Please id email this sheet back to Hazen and Sawyer,
Company Name	SEAL OF SEAL O
Acknowledgement of Receipt	040800 3710-20 FACINEER C. MILES
Date	
	Matthew C. Miles, P.E. HAZEN AND SAWYER

ORANGE WATER AND SEWER AUTHORITY CARRBORO, NORTH CAROLINA

Jones Ferry Road WTP FW Resiliency Improvements

Addendum No. 1

Contract Specifications:

00003 - TABLE OF CONTENTS

1. Replace existing table of contents with attached in its entirety.

00250-INSTRUCTIONS TO BIDDERS

- 1. ARTICLE 13.01 PREPARATION OF BID
 - a) Replace "DO NOT REMOVE ANY PAGES FROM THE BOUND

 DOCUMENTS" with "Bidder is only required to submit 00300 –

 Proposal-Lump Sum Contract Bid Form with cover page
 consisting of 00300a-Bidder's Checklist"

00300a - BIDDERS CHECKLIST

1. Add attached 00300a-Bidders Checklist as cover page to be included with Proposal.

<u>00300 – PROPOSAL-LUMP SUM CONTRACT BID FORM</u>

1. Replace existing proposal with attached in its entirety.

Contract Drawings:

C01 – GENERAL NOTES AND LEGEND

Replace with attached sheet annotated as Addendum No. 1

C04 - DEMOLITION PLAN

1. Replace with attached sheet annotated as Addendum No. 1

C05 - SITE PLAN

1. Replace with attached sheet annotated as Addendum No. 1

C06 - PROFILES

Add the following note to the upper right hand corner of drawing.

1. EXISTING DEPTH OF WATER MAINS IN JONES FERRY ROAD ARE UNKNOWN. PROFILES AS PROVIDED ARE FOR GENERAL REFERENCE ONLY AND SHALL NOT BE CONSIDERED TO MATCH EXISTING CONDITIONS FOR TIE-INS OF NEW WATER MAINS. FOR BIDDING PURPOSES CONTRACTOR SHALL ASSUME A RANGE OF ANTICIPATED DEPTHS FOR WATER MAIN TIE-INS AT JONES FERRY ROAD OF 5 FEET TO 15 FEET.

C07 - EROSION CONTROL PLAN

1. Replace with attached sheet annotated as Addendum No. 1

M10 - OVERALL SITE PLAN - DEMOLITION

Add the following notes:

- 4. EXISTING DEPTH OF WATER MAINS IN JONES FERRY ROAD ARE UNKNOWN. LAYOUTS AS PROVIDED ARE FOR GENERAL REFERENCE ONLY AND SHALL NOT BE CONSIDERED TO MATCH EXISTING CONDITIONS FOR TIE-INS OF NEW WATER MAINS. FOR BIDDING PURPOSES CONTRACTOR SHALL ASSUME A RANGE OF ANTICIPATED DEPTHS FOR WATER MAIN TIE-INS AT JONES FERRY ROAD OF 5 FEET TO 15 FEET.
- 5. ALL PIPING THAT IS DEMOLISHED AND ABANDONED IN PLACE SHALL BE FILLED WITH FLOWABLE FILL.

M11 – OVERALL SITE PLAN

1. Replace with attached sheet annotated as Addendum No. 1

S400 - EXTERIOR PIPE SUPPORT SHEET 1

Section A & Section B

1. Remove 12" MIN #57 Stone beneath concrete footings. Concrete footings shall be placed directly on compacted subgrade.

Add the following note.

3. FOLLOWING EXCAVATION FOR ALL NEW PIPE SUPPORTS AND PRIOR TO PLACING CONCRETE CONTRACTOR SHALL ACQUIRE THE SERVICES OF A CURRENTLY REGISTERED PROFESSIONAL GEOTECHNICAL ENGINEER IN THE STATE OF NORTH CAROLINA TO DETERMINE SUITABILITY OF SUBGRADE FOR NEW CONCRETE SUPPORTS. CONTRACTOR SHALL SUBMIT A WRITTEN REPORT FROM GEOTECHNICAL ENGINEER DEFINING ANY SUBGRADE REMEDIATION REQUIREMENTS. FOR BIDDING PURPOSES CONTRACTOR SHALL ASSUME 20 CUBIC YARDS OF SELECT FILL WILL BE REQUIRED FOR SOIL REMEDIATION. CONTRACTOR SHALL REFERENCE CONTRACT SPECIFICATION SECTION 02200-EARTHWORK FOR ADDITIONAL REQUIREMENTS.

S401 - EXTERIOR PIPE SUPPORT SHEET 2

1. Remove 4" #57 Stone beneath concrete footings. Concrete footings shall be placed directly on compacted subgrade.

S402 - ALUMINUM STAIR

1. Remove 6" MIN #57 Stone beneath concrete footings. Concrete footings shall be placed directly on compacted subgrade.

SD2 - MISCELLANEOUS STANDARD DETAILS

1. Remove 4" #57 Stone beneath concrete footings. Concrete footings shall be placed directly on compacted subgrade.

TABLE OF CONTENTS

Section <u>Title</u>

INTRODUCTORY INFORMATION

00003 Table of Contents

PROCUREMENT REQUIREMENTS

00200	Advertisement for Bids
00250	Instructions to Bidders
00300a	Bidders Checklist

00300 Proposal – Lump Sum Contract Bid Form

CONTRACTING REQUIREMENTS

00500	Agreement
00510	Form of Submittals
00520	Addenda
00700	2013 EJCDC Standard General Conditions of the Construction Contract
00800	Forms AIA

TECHNICAL SPECIFICATIONS

Division 1

01010	Summary of Work
01035	Modification Procedures
01200	Project Meetings
01300	Submittals
01400	Quality Control
01520	Maintenance of Utility Operations During Construction
01525	Bypass Pumping
01530	Protection of Existing Facilities
01540	Demolition and Removal of Existing Structures and Equipment
01550	Site Access and Storage
01590	Field Office, Equipment and Services

Division 2

02050	Demolition
02100	Clearing, Grubbing, and Site Preparation
02200	Earthwork
02207	Aggregate Materials
02274	Geotextiles
02276	Erosion and Sedimentation Control
02340	Underwater Construction



00003 -1 Table of Contents

02510	Paving and Surfacing
02604	Utility Structures
02820	Ornamental Fences
02910	Final Grading and Landscaping

Division 3

03100	Concrete Formwork
03200	Reinforcing Steel
03250	Concrete Accessories
03300	Cast-in-Place Concrete
03350	Concrete Finishes
03370	Concrete Curing
03400	Precast Concrete

Division 5

05010	Metal Materials
05035	Galvanizing
05050	Metal Fastening
05061	Stainless Steel
05120	Structural Steel
05140	Structural Aluminum
05500	Metal Fabrications
05510	Metal Stairs
05520	Handrails and Railings
05531	Gratings, Access Hatches, and Access Doors
05540	Castings
05550	Stair Treads and Nosing
05830	Bearing Devices and Anchoring

Division 11

11000	Equipment, General Provisions
11100	Pumps – General
11136	Submersible Chemical Sump Pumps
11220	Static Mixing Equipment

Division 13

13450 Disinfection of Water Treatment Facilities



Division 15

15000	Basic Mechanical Requirements
15006	Ductile Iron Pipe
15095	Valves, General
15100	Valve Operators
15101	Butterfly Valves
15121	Piping Expansion Compensation
15290	Insulation
15390	Schedules

Division 16

16000	Basic Electrical Requirements
16111	Conduit
16118	Underground Electrical
16123	Low Voltage Wire and Cable
16130	Boxes
16141	Wiring Devices
16170	Grounding and Bonding
16190	Supporting Devices
16195	Electrical-Identification
16481	Individual Motor Controllers
16902	Electric Controls and Relays

Division 17

17000	Control and Information System Scope and General Requirements
17030	Control and Information System Submittals
17560	Surge Protection Devices
17670	Level Switches (Suspended Float Type)
17700	Powered Instruments, General
17701	Magnetic Flow Meters
17760	Pressure Indicating Transmitters
17920	Control System Input/Output Schedule

-END OF SECTION-



This Page Left Intentionally Blank



CONTRACT: CIP 275-92

PROJECT: Jones Ferry Road WTP Finished Water Distribution Resiliency Improvements

DATE: 2/6/2020

SECTION 00300a

Bidder's Checklist

This checklist shall be included as the first page of the submitted bidding documents. As outlined in Section 00300 Article 7.01 of the Proposal the following items shall be included with the fully executed Section 00300 Proposal:

	BID FORMS, including:	
A.	Executed Lump Sum Bid Form	
B.	Certified List of Equipment/Material Manufacturers and Subcontractors/Suppliers	
C.	Certification Affidavit	
D.	Bid Certification	
E.	Contractor Experience	
F.	Qualifications of Bidders	
G.	Appropriate Bid Form Signature Page	
H.	Bid Security or Bid Bond and Power of Attorney	
I.	Proposal Signature Page	
J.	J. Contractor's Affidavit of Organization and Authority	
K.	Non-Collusion Affidavit of Bidder *	
L.	Equal Employment Opportunity Certification	
M.	Acknowledgement for Equal Employment Opportunity Certification	
N.	Bidder's North Carolina General Contractor's License	
	M/WBE Forms, including:	
O.	Identification of Minority Business Participation	
P.	Affidavit A or B **	

^{*}Within five (5) day of bid opening, Contractor shall file a Non-Collusion Affidavit for Sub-Contractors.



^{**}After bid opening, the Contractor shall file Affidavits C or D within 72 hours of being informed of low bid.

PRICE PROPOSAL

(LUMP SUM CONTRACT – BID FORM)

ARTICLE 1 – BID RECIPIENT

1.01 This Bid is submitted to:

EXECUTIVE DIRECTOR
ORANGE WATER AND SEWER AUTHORITY
400 JONES FERRY ROAD
CARRBORO, NORTH CAROLINA 27510
(919) 968-4421

Date:, 20
OWASA CIP: #275-92
Project: Jones Ferry Road WTP Finished Water Distribution Resiliency Improvements,
Name of Bidder:
Address of Bidder:
Phone Number of Bidder:
Contact Person for Bidder:
Phone Number of Contact:
Bidder's NC General Contractor's License Number (required):

- 1.02 The undersigned Bidder proposes and agrees, if this Bid is accepted, to enter into an Agreement with Orange Water and Sewer Authority in the form included in the Bidding Documents to perform all Work as specified or indicated in the Bidding Documents for the prices and within the times indicated in this Bid and in accordance with the other terms and conditions of the Bidding Documents.
- 1.03 The undersigned Bidder hereby declares that the names of all persons interested in this Bid as principals appear in the blank spaces hereinafter provided for such purpose, that this Bid is in all respects fair and without collusion, that the Bidder has examined the locations of the proposed Work, the Advertisement to Bidders, the Instructions to Bidders, Technical Specifications, M/WBE requirements of Orange Water and Sewer Authority, the Contract Documents and Bond forms, and the Drawings therein referred to and fully understands the same and agrees and accepts the terms and conditions thereof, that it is understood that the estimated quantities are approximate only and are given for the purpose of comparing

- Bids upon a uniform basis, and that said estimate shall in no way affect the unit prices for the Work.
- 1.04 The undersigned Bidder hereby agrees to furnish at the Bidder's cost the expense of all the necessary labor, tools, apparatus, machinery, equipment, transportation, and all other things which may be required to fully and properly perform all the terms, covenants, provisions, and agreements of this Contract.
- 1.05 The undersigned Bidder hereby agrees to do said Work and furnish said materials as prescribed in the Contract Documents and Technical Specifications, and, according to the Drawings and requirements of the Engineer under said Contract Documents and Technical Specifications, in a first-class manner and to the best of the undersigned's ability at the following lump sum or unit prices.
- 1.06 The undersigned Bidder has examined the Site of the Work and all matters referred to in the Instructions to Bidders and the Contract Documents prepared by the Engineer for the Project, we, the undersigned Bidder, hereby offers to enter into a Contract to perform the Work for the lump sum or unit prices listed in this Bid Form in lawful money of the United States of America.
- 1.07 The undersigned Bidder acknowledges that it is the intent of these Contract Documents to obtain a Contract based on a Lump Sum Bid Price, unless Unit Prices are applied to the various portions of the Work and are specifically requested. In the event of errors in the arithmetical extension of unit prices to total prices, the unit price bid shall govern, and the Award of the Contract shall be based on the recomputed total prices. Where discrepancy exists between words and numerals, the written words shall govern. If a Bidder submits a Bid showing a unit price for a particular item and omits an extended total for that item, or a Bidder submits a Bid showing an extended total for a particular item and omits a unit price for that item, the omitted numbers shall be computed using the equation "Estimated Quantity x Unit Bid Price = Extended Total", so that the omission shall not render the Bid nonresponsive or incomplete. If the Bidder leaves blank any lines or spaces indicated for the dollar amount of any item in the Bid, that omission will be understood and treated as if the Bidder had written in zero dollars (\$0.00) for that particular item in the Bid. Before applying the preceding two (2) sentences this paragraph, the following rule shall apply in the special case that it describes: In places where it is indicated that a Bid should show both words and numerals for a particular dollar amount, if the Bid shows the dollar amount in numerals but omits to show any dollar amount in words (or vice versa), the Bid shall be treated as if it had shown the indicated dollar amount in both numerals and words.
- 1.08 The undersigned Bidder shall be required to submit a complete detailed cost breakdown of the Lump Sum Bid for payment purposes, for approval by the Engineer, <u>prior</u> to the Award of the Contract.
- 1.09 The undersigned Bidder acknowledges that all costs for mobilization, demobilization, bonds, insurance, etc. shall be included in the Lump Sum Bid Price indicated. There shall be no additional compensation for mobilization, demobilization, bonds, insurance, etc and no adjustments to the Lump Sum Bid based on changes in the scope of Work, including but not limited to, any additions to the Work on the Contract.

- 1.10 The undersigned Bidder acknowledges that the Project will be Awarded to the lowest responsible, responsive Bidder for the Project, as selected by Orange Water and Sewer Authority whose evaluation indicates that the Award will be in the best interest of the Project.
- 1.11 The undersigned Bidder acknowledges that all blanks on the Bid Form shall be completed by printing in ink or by typewriter and the Bid signed in ink. Erasures or alterations shall be initialed in ink by the person signing the Bid Form. A Bid Price shall be indicated for the Lump Sum or each Unit Price item listed therein, or the words, "No Bid", "No Change", or "Not Applicable" entered."
- 1.12 The undersigned Bidder acknowledges that the omission of prices for any item on the Bid Form, or the tendering of any unbalanced Bid may be the cause for the rejection of the submitted Bid.
- 1.13 The undersigned Bidder acknowledges that the payment will be made on the basis of the Work as actually executed at the Lump Sum or unit prices set forth in the executed Contract and under the provisions of such Contract.
- 1.14 The undersigned Bidder acknowledges that there shall be no additional compensation to the Bidder for materials, equipment, or Work that is incidental to the successful completion of the Contract. Incidental costs include the costs inherent to the complete installation of those individual items included on the Bid Form.
- 1.15 The undersigned Bidder acknowledges that the Non-Collusive Affidavit for the Contractor shall be submitted with the Bid, and Non-Collusive Affidavit(s) for all Subcontractors (all tiers) for the apparent low Bidder shall be submitted within five (5) calendar days of the Bid Opening.

1.16 NOT USED

- 1.17 The undersigned Bidder agrees to comply with all requirements of local, State, or Federal permits that may be required for the completion of the Work.
- 1.18 The undersigned Bidder shall have all proper Contractors licenses and privilege licenses required under State and local laws governing their respective trade(s).
- 1.19 The undersigned agrees that the rights of Orange Water and Sewer Authority and the recommendations of the Engineer are not to be questioned in the Award of a Contract.
- 1.20 The undersigned Bidder certifies compliance with the requirements of Article 2 of Chapter 64 of the North Carolina General Statutes ("E-Verify"), and represents that it will require any subcontractors to comply with the requirements of Article 2 of Chapter 64 of the General Statutes.
- 1.21 The undersigned Bidder certifies compliance with the requirements of Article 6 of Chapter 143 of the North Carolina General Statutes ("Iran Divestment") and that it is not listed on the State Treasurer's Final Divestment List found at the website address www.nctreasurer.com/Iran and updated every 180 days, and represents that it will require



any subcontractors to comply with the requirements of Article 6 of Chapter 143 of the General Statutes.

ARTICLE 2 – BIDDER'S ACKNOWLEDGEMENTS

- 2.01 Bidder accepts all of the terms and conditions of the Instructions to Bidders, including without limitation those dealing with the disposition of Bid security. This Bid shall remain open and remain subject to acceptance, and is irrevocable, except as required by law, for ninety (90) calendar days from the Bid opening date, or for such longer period of time that Bidder may agree to in writing upon request of Orange Water and Sewer Authority.
- 2.02 If this Bid is accepted by Orange Water and Sewer Authority within the time period stated above, the Bidder will:
 - -Execute the Agreement within fifteen (15) days of receipt of Notice of Award.
 - -Furnish the required Bonds within fifteen (15) days of receipt of Notice of Award.
 - -Commence Work within ten (10) days after written Notice to Proceed.

2.03 NOT USED

2.04 In the event Bid is not accepted by Orange Water and Sewer Authority within the time stated above, the required Bid security will be returned to the undersigned, in accordance with the provisions of the Instructions to Bidders; unless a mutually satisfactory arrangement is made for its retention and validity for an extended period of time.

ARTICLE 3 - BIDDER'S REPRESENTATIONS

- 3.01 In submitting this Bid, Bidder represents that:
 - A. Bidder has examined and carefully studied the Bidding Documents, and any data and reference items identified in the Bidding Documents, and hereby acknowledges receipt of the following Addenda:

Addendum No.:	Addendum Date:

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



- C. Bidder is familiar with and has satisfied itself as to all Laws and Regulations that may affect cost, progress, and performance of the Work.
- D. Bidder has carefully studied all: (1) reports of explorations and tests of subsurface conditions at or adjacent to the Site and all drawings of physical conditions relating to existing surface or subsurface structures at the Site that have been identified in the Supplementary Conditions, especially with respect to Technical Data in such reports and drawings, and (2) reports and drawings relating to Hazardous Environmental Conditions, if any, at or adjacent to the Site that have been identified in the Supplementary Conditions, especially with respect to Technical Data in such reports and drawings.
- E. Bidder has considered the information known to Bidder itself; information commonly known to contractors doing business in the locality of the Site; information and observations obtained from visits to the Site; the Bidding Documents; and any Siterelated reports and drawings identified in the Bidding Documents, with respect to the effect of such information, observations, and documents on (1) the cost, progress, and performance of the Work; (2) the means, methods, techniques, sequences, and procedures of construction to be employed by Bidder; and (3) Bidder's safety precautions and programs.
- F. Bidder agrees, based on the information and observations referred to in the preceding paragraph, that no further examinations, investigations, explorations, tests, studies, or data are necessary for the determination of this Bid for performance of the Work at the price bid and within the times required, and in accordance with the other terms and conditions of the Bidding Documents.
- G. Bidder is aware of the general nature of work to be performed by Owner and others at the Site that relates to the Work as indicated in the Bidding Documents.
- H. Bidder has given Engineer written notice of all conflicts, errors, ambiguities, or discrepancies that Bidder has discovered in the Bidding Documents, and confirms that the written resolution thereof by Engineer is acceptable to Bidder.
- I. The Bidding Documents are generally sufficient to indicate and convey understanding of all terms and conditions for the performance and furnishing of the Work.
- J. The submission of this Bid constitutes an incontrovertible representation by Bidder that Bidder has complied with every requirement of this Article, and that without exception the Bid and all prices in the Bid are premised upon performing and furnishing the Work required by the Bidding Documents.

ARTICLE 4 - BIDDER'S CERTIFICATION

4.01 Bidder certifies that:

- A. This Bid is genuine and not made in the interest of or on behalf of any undisclosed individual or entity and is not submitted in conformity with any collusive agreement or rules of any group, association, organization, or corporation;
- B. Bidder has not directly or indirectly induced or solicited any other Bidder to submit a false or sham Bid;
- C. Bidder has not solicited or induced any individual or entity to refrain from bidding; and



D. Bidder has not engaged in corrupt, fraudulent, collusive, or coercive practices in competing for the Contract. For the purposes of this Paragraph 4.01.D:

"corrupt practice" means the offering, giving, receiving, or soliciting of anything of value likely to influence the action of a public official in the bidding process;

"fraudulent practice" means an intentional misrepresentation of facts made (a) to influence the bidding process to the detriment of Orange Water and Sewer Authority, (b) to establish bid prices at artificial non-competitive levels, or (c) to deprive Orange Water and Sewer Authority of the benefits of free and open competition;

"collusive practice" means a scheme or arrangement between two or more Bidders, with or without the knowledge of Orange Water and Sewer Authority, a purpose of which is to establish bid prices at artificial, non-competitive levels; and

"coercive practice" means harming or threatening to harm, directly or indirectly, persons or their property to influence their participation in the bidding process or affect the e execution of the Contract.

ARTICLE 5 – BASIS OF BID (LUMP SUM SINGLE PRIME BID PRICE)

5.01 CIP: **#275-92**

Project: <u>Jones Ferry Road WTP Finished Water Distribution Resiliency</u> <u>Improvements</u>

Project Description:

LUMP SUM BID SHALL INCLUDE:

- 1. Main items of work will include water main modifications and tie-ins at Jones Ferry Road including installation of isolation valves. Additionally, work includes the underwater installation (utilizing divers) of a stainless steel adapter plate and butterfly valve in the existing Finished Water Clearwell while in service to allow for isolation of an existing 30-inch filtered water iron pipe. Work will also include selective concrete demolition of the clearwell roof and installation of a new aluminum hatch. In addition, Contractor shall provide all associated appurtenances as described in the Specifications and as shown on the Drawings.
- 2. Price quotation for facility SCADA system modifications which shall be included in this lump sum bid. The Contractor shall be required to furnish Facility SCADA System Modifications by CITI. For these modifications no other system integrator will be considered. The Owner has received a not-to-exceed price quote in the amount of \$23,249.02 per the CITI proposal to the Owner. The CITI proposal is attached to this section and labeled Attachment 1.

The foregoing description shall not be construed as a complete description of all work required.



<u>CONTINGENCY ALLOWANCE</u>: The Contractor shall include in its Bid a contingency allowance in the amount of **10% of the total Lump Sum Bid**. <u>The contingency allowance shall only be used at the specific direction and written approval of the Engineer.</u>

The foregoing description shall not be construed as a complete description of all Work required.

The Lump Sum Single Prime Bid Price shall reflect all costs associated with furnishing and installing, and placing into service all items of Work as indicated on the Drawings and in the Technical Specifications, complete, in place, operable and accepted by Orange Water and Sewer Authority, per the Engineer's Contract Documents.

- 5.02 Orange Water and Sewer Authority has established a "Contingency Allowance" for this project. The contingency allowance is intended to provide adequate budget to cover items not precisely determined by Orange Water and Sewer Authority, and unforeseeable conditions prior to the Bid. Orange Water and Sewer Authority has provided for a contingency allowance of 10% of the total Lump Sum Bid as indicated in the Proposal. Funds allocated as part of the allowance will be used at the <u>sole discretion of Orange Water and Sewer Authority</u>. This allowance is included on the Bid Form in the Proposal, and will be included in the total amount of each Bid. Orange Water and Sewer Authority shall approve use of the contingency allowance funds prior to any Work associated with a contingency allowance being performed. The Contractor shall invoice items authorized for payment under the Contingency Allowance with its monthly pay applications. The amount invoiced will be deducted from the indicated amount.
- 5.03 Bidder shall complete the Work in accordance with the Contract Documents for the following TOTAL LUMP SUM BID PRICE:

REMAINDER OF PAGE LEFT BLANK INTENTIONALLY

BID FORM

NOTE TO BIDDERS: $\underline{\text{DO NOT REMOVE THIS BID FORM}}$ FROM THE CONTRACT DOCUMENTS

LUMP SUM SINGLE PRIME CONTRACT

Jones Ferry Road WTP Finished Water Distribution Resiliency Improvements

ITEM NO.	DESCRIPTION	UNIT	BID PRICE
1	All Work other than Item 2	LS	
2	10% CONTINGENCY ALLOWANCE OF TOTAL LUMP SUM BID	LS	
3	Total of Items 1 & 2	LS	

	RIME BASE BID PRICE for the Project described in the Contract Documents (in words and numerals):	Sub-Article
		Dollars
and	Cents (\$	
	Bidder(Print Name)	
	Bidder(Signature)	

CERTIFIED LIST OF EQUIPMENT/MATERIAL MANUFACTURERS AND SUBCONTRACTORS

of Bids on this Project, submits the followin Subcontractors to be used in the performance Manufacturers and all equipment/materials furequirements of the Contract Documents. Cha	, as part of the procedure for the submission g list of Equipment/Material Manufacturers and of Work to be done on said Project. The list of urnished and Subcontractors shall be based on nges to this list after the Bid opening shall only be prity upon request by the Contractor or as required upon review of Contractor's submittals:
EQUIPMENT/MATERIALS	MANUFACTURER
WORK TASK	SUBCONTRACTOR

It is understood and agreed that, if awarded a Contract, the Contractor will not make any additions, deletions or substitutions to this certified list without the written consent of Orange Water and Sewer Authority.

CERTIFICATION AFFIDAVIT

THE ABOVE INFORMATION IS TRUE AND COMPLETE TO THE BEST OF MY KNOWLEDGE AND BELIEF. I FURTHER UNDERSTAND AND AGREE THAT, IF AWARDED A CONTRACT, THIS CERTIFICATION SHALL BE ATTACHED THERETO AND BECOME A PART THEREOF.

NAME OF SIGNER:		
	(Please Print or Type)	
TITLE OF SIGNER:		
	(Please Print or Type)	
	SIGNATURE:	
DATE:		

-END OF CERTIFICATION-

REMAINDER OF PAGE LEFT BLANK INTENTIONALLY

ARTICLE 6 - TIME OF COMPLETION

- 6.01 Bidder agrees that the Work will be Substantially Complete within 365 CONSECUTIVE CALENDAR DAYS, after the date when the Contract Time commences to run as provided in Paragraph 4.01 of the General Conditions and will be completed and ready for final payment in accordance with Paragraph 15.03 of the General Conditions within 395 CONSECUTIVE CALENDAR DAYS, of the date when the Contract Time commences to run.
- 6.02 Bidder accepts the provisions of the Agreement as to Liquidated Damages.

ARTICLE 7 - ATTACHMENTS TO THIS BID

- 7.01 The following documents are submitted with and made a condition of this Bid:
 - A. Required Bid Security
 - B. List of Proposed Subcontractors;
 - C. List of Proposed Suppliers;
 - D. List of Project References;
 - E. Evidence of authority to do business in the State of North Carolina; or a written covenant to obtain such license within the time for acceptance of Bids;
 - F. Required Bidder Qualification Statement with supporting data;

ARTICLE 8 - BID CERTIFICATION

8.01 THE ABOVE INFORMATION IS TRUE AND COMPLETE TO THE BEST OF MY KNOWLEDGE AND BELIEF. I FURTHER UNDERSTAND AND AGREE THAT, IF AWARDED A CONTRACT, THIS CERTIFICATION SHALL BE ATTACHED THERETO AND BECOME A PART THEREOF.

SIGNATURE:	
DATE:	

8.02 We agree to diligently perform the Work in accordance with all Contract Documents, to complete such Work within the period as outlined in the Contract, and to begin Work within ten (10) consecutive calendar days after receipt of the Notice to Proceed from Orange Water and Sewer Authority.

ARTICLE 9 - CONTRACTOR EXPERIENCE

9.01	Work of this Class for submitted that clearly	ractor has regularly engager a minimum of 5 years. demonstrates a minimum e just cause for rejection	A completed contract of 5 years' experien	cts summary shall be ice. Failure to provide
9.02	Superintendent to be i	rsonnel experienced to c n charge of this Work shork. The list shall not inclu-	owing the length of the	neir varied experience
	<u>Name</u>	<u>Experience</u>	<u>Name</u>	<u>Experience</u>

9.03	Contractor's equipment in good condition and suitable for completion of this Contractor must be able to demonstrate ownership of all equipment necessary to complet all portions of the Contract. The list shall not include Subcontractor equipment.			
		-		
		-		
		_		

Attach additional sheets as necessary to complete the items above.

ARTICLE 10 - BID FORM SIGNATURES

10.01 Refer to Document 00250 for specific Bid Form signature requirements for corporations, partnerships, limited liability companies, individuals, or sole proprietorships.

ARTICLE 11 - QUALIFICATIONS OF BIDDERS

- 11.01 In order to assist the Owner in determining whether the Bidder is qualified to perform the Work, as set forth in the Contract Documents, the Bidder shall furnish the following information. Bidder shall submit detailed information required for below Items 1 through 6 with his Bid package and at the discretion of the Bidder the information required under Item 7 can be furnished after Bids are received if required by the Owner and Engineer to evaluate the financial qualifications of a prospective Bidder. **Attach additional sheets as necessary.**
 - a. List and describe a minimum of three (3) previous projects of similar size and nature completed in the last ten (10) years. Be sure the description includes the type of pumps installed (vertical turbine, centrifugal, submersible, etc.) and the pump capacity (in gallons per minute). For each project, also list:
 - a. Owner, contact and telephone number;
 - b. original bid price and final construction cost;
 - c. specified completion time and actual completion time:
 - d. explanations for differences in costs and times as required.
 - List and describe current projects, current status of job and estimated schedule of completion.
 - c. List references who are qualified to judge as to Bidder's financial responsibility and experience in work of similar nature to that bid upon.
 - d. Past Safety Performance Data; EMR and 3-years of DART (provide in Section 11.02)
 - e. Debarment status (provide in Section 11.02)
 - f. Information on claims, judgements, and final resolutions (provide in Section 11.02)
 - g. Financial Statement:



		ASSETS			
		CURRENT ASSETS	<u>5</u> :	Φ.	
		Cash	Daggiyahla	\$	
		Notes and Accounts	Receivable	\$	
		Inventories		\$	
		PLANT ASSETS:		Φ	
		Real Estate		\$	
		Machinery	oto	\$ \$	
		Good Will, Patents, LIABILITIES:	eic.	Φ	
		Notes Payable		\$	
		Accounts Payable		Φ	
		Accrued Wages		\$ \$	
		Other Liabilities		\$ \$	
		EXCESS OF		Ψ	
		ASSETS OR			
		NET WORTH		\$_	
Ν	lote			Ψ	
	1.	required to follow the show to the satisfac	e form explicitly. The form explicitly. The form of the Owner privilege of requires	e Financial Statement, and The Financial Statement su the Bidders current financian ring additional information a carding Contract.	ibmitted must clearly al condition. The
2		vide responses for the	•	: experience Modification Rat	e (EMR) and Dave
	a.	Away, Restricted, or	Transferred (DAI	RT) Rate numbers below:	e (Liviry and Days
		i. Current Year E	MR =		
		Bidde suppe	ers with an EMR gorting information	eater than 1.5 will not be co preater than 1.5 shall provice if they believe that extenual fety have resulted in their h	le additional ating circumstances
		ii. Previous 3 Y	ears DART Rates	S =,,	
		the name of the na	ational rate for the em (NAICS) Code dered qualified. B 1.50 times the NA orting information	r average DART rate greate North American Industry (237 (heavy and civil const idders with a three-year DA ICS Code 237 rate shall pr if they believe that extenua fety have resulted in their h	Classification ruction) will not be ART rate greater rovide additional ating circumstances
	b.	the following actions i. Debarment ii. Deletion from a	: a Prequalified Bid	or any affiliate, ever been the ders List ebarment	YesNo YesNo



11.02

on, c	or in conjunction with, any project performed by the Bidder, any a	ffiliate,	or their
office	ers, partners or directors in the last five years?		
i.	Legal Action Implemented by Contractor against Owner	Yes_	_No
ii.	Legal Action Implemented by Contractor against Subcontractor	Yes_	_No
iii.	Legal Action Implemented by Owner	Yes_	_No
iv.	Legal Action Implemented by Subcontractor	Yes_	_No
	Settlement or Close Out Agreement in effect with Owner		
vi.	Judgments	Yes_	_No
	Arbitrations		

c. Claims/Final Resolution/Judgments - Have any of the following actions occurred

Please attach additional sheets as necessary to complete the items above.

ARTICLE 12 – SEQUENCE OF WORK

- 12.01 The Sequence of Work may dictate extensive temporary installation until final and complete installation can be made. In this Section there is an attempt to address major steps in the order of construction but in no way should be considered as a complete and comprehensive guide through the construction phase. The Contractor is encouraged to make suggestions for modifications to this Sequence of Work to simplify or streamline the construction process. Any suggestions are to be presented to the Engineer for consideration and approval. Items of Work not specifically stated herein that are required to accomplish the project construction and keep the system in service (or on bypass) will not be considered as extra work and Change Orders for such will not be considered.
- 12.02 The Sequence of Work shall be as approved by the Engineer; however, this shall in no way affect the responsibility of the Contractor.
- 12.03 Coordinate all Work with Orange Water and Sewer Authority to minimize disruption of ongoing operations. Work may be required to be performed on weekends and/or at night to minimize disruption of normal operations.
- 12.04 Coordination shall be made with Orange Water and Sewer Authority prior to disconnecting/connecting to existing utilities (water or sewer mains).
- 12.05 Coordination shall be made with Orange Water and Sewer Authority for the disinfection, flushing and pressure testing of waterlines.
- 12.06 Sequence of Work
 - A. Contractor shall reference 01520-Maintenance of Utility Operations During Construction



CORPORATION

The Corporate Seal of
(Bidder - print the full legal corporate name of firm)
(President/Vice President/Authorized Corporate Officer)
(Seal)
was hereunto affixed in the presence of:
(Sporotory/Assistant Sporotory)
(Secretary/Assistant Secretary)
(Seal)
Corporate Address:

(State of Incorporation)

LIMITED LIABILITY COMPANY

(Bidder - print the full legal name of firm)
(Authorized Firm Member)
(Seal)
was hereunto affixed in the presence of:
(Witness)
(Seal)
Firm Address:

(State of Formation)

INDIVIDUAL OR SOLE PROPRIETORSHIP

(Bidder - print the full name of individual or sole proprietorship)
(Seal)
Individual or Sole Proprietorship Address:

PARTNERSHIP

(Bidder - print the full legal corpora	ate name of partnership)
(Partner and Title)	(Partner and Title)
(Seal)	(Seal)
(Partner and Title)	(Partner and Title)
(Seal)	(Seal)
(Partner and Title)	(Partner and Title)
(Seal)	(Seal)
(Partner and Title)	(Partner and Title)
(Seal)	(Seal)
(Partner and Title)	(Partner and Title)
(Seal)	(Seal)
(All Partners shall sign, additional	signatures with titles and seals may be added below.)
was hereunto affixed in the presen	nce of:
(Witness)	
(Seal)	
Partnership Address:	



JOINT VENTURE

If the Bid is a joint venture, add additional forms of execution for each member of the joint venture in the appropriate manner using the forms from above.



BID BOND

This is a Bid Bond that is subject to the provisions of G.S. 143-129 (b) of the North Carolina General statutes.

This Bond is executed on	
The name of the Principal is	(Correct name of Contractor)
	(A Corporation, a Partnership, or an Individual, as the case may be)
The name of the Surety is	
_	
Orange Water and Sewer Author	rity is the Owner.
The amount of the Bond is	
	(Dollars) \$

KNOW BY ALL MEN BY THESE PRESENTS, the Principal and Surety above named are hereby held and firmly bound unto the above named Owner hereinafter called the Owner in the penal sum of the amount stated above in lawful money of the United States, for the payment of which, well and truly to be made, we hereby jointly and severally bind ourselves, our heirs, executors, administrators, successors and assigns.

The condition of the above obligation is such that whereas the Principal has submitted to the Owner a certain Bid attached hereto and hereby made a part hereof to enter into a Contract in writing, for the construction of:

JONES FERRY ROAD WTP FINISHED WATER DISTRIBUTION RESILIENCY IMPROVEMENTS

NOW, THEREFORE

- (a) If said Bid shall be rejected, or in the alternate,
- (b) If said Bid shall be accepted and the Principal shall execute and deliver a Contract in the Form of Contract attached hereto (properly completed in accordance with said Bid) and shall furnish a bond for its faithful performance of said Contract, and for the payment of all persons performing labor or furnishing materials in connection therewith, and shall in all other respects perform the agreement created by the acceptance of said Bid;
- (c) Then this obligation shall be void, otherwise the same shall remain in force and effect; it being expressly understood and agreed that the liability of the Surety for any and all claims hereunder shall, in no event, exceed the penal amount of this obligation as herein stated.



BID BOND (CONTINUED)

The Surety, for value received, hereby stipulates and agrees that the obligations of said Surety and its Bond shall be in no way impaired or affected by any extension of the time within which the Owner may accept such Bid; and said Surety does hereby waive notice of any such extension.

IN WITNESS WHEREOF, the Principal and the Surety have hereunto set their hands and seals, and such of them as are corporations have caused their corporate seals to be hereto affixed and these presents to be signed by their proper officers, the day and year first set forth above.

Execution by Principal:		(If Contractor is a Partnership, all
ATTEST:		partners should execute Bond below)
	BY:	
Principal Secretary (SEAL)		Principal
		Principal
		Principal
Witness as to Principal		(Address)
		(Phone Number)
Execution by Surety: ATTEST:		
N. C. Resident Agent (<u>SEAL</u>)	<u> </u>	Surety
	_	(Address)
Witness as to Surety		(Phone Number)

POWER OF ATTORNEY (Attach)



PROPOSAL SIGNATURE

Bidder operates under the legal name of		
BIDDERS COMPLETE	THE APPROPRIATE SECTION*	
CORPORATION* The Bidder is a corporation, has a corporate seal and the full names of its officers are		
President		
Secretary		
Vice President		
Treasurer		
contracts for the company by action of its Board of D	fficer's title) is authorized to sign construction proposals and Directors taken on, 20 a certified copy of ot applicable. This section must be completed if President or Vice	
PARTNERSHIP* The Bidder is a partners	ship consisting of individual partners whose full names are:	
INDIVIDUAL*	The Bidder is an individual whose full name is:	
	CORPORATIONS ONLY – Secretary or Assistant Secretary attest and affix corporate Seal:	
Print Name of Legal Entity		
Ву:	Circle one: Secretary or Assistant Secretary	
Print name and title of signatory	State of Incorporation	
Address an	nd telephone number	
Subscribe and sworn to me this day of	, 20	
,	eal)	
My Commission Expires:	<u> </u>	



CONTRACTOR'S AFFIDAVIT OF ORGANIZATION AND AUTHORITY

STATE OF		
COUNTY OF		
		being the first duly
sworn on oath deposes and says that the Bid indicated below and that all statements herein this deponent is authorized to make them.		
(Fill Out Applicable Paragraph)		
1. CORPORATION:		
The Bidder is a corporation organized a and its President is	•	
its Secretary is		,
and it does have a corporate seal. The is authorized to sign construction Contracts a Directors taken on attached. (Strike out last sentence if not applied to the contract of the	and Bids for the compa	(officer's title) any by action of its Board of
2. PARTNERSHIP:		
The Bidder is a partnership consisting of	, partners doing	business under the name of
3. INDIVIDUAL / SOLE TRADER:		
The Bidder is an individual and if operating ur	der a trade name, suc	ch trade name is as follows:
4. ADDRESS:		
The business address of the Bidder is as follo	ws:	
Its phone number is		
	-	Bidder
	Ву:	_
Subscribed and sworn to before me this	day of	, 20
My commission expires:Notary Public	-	
(SEAL)		



NON-COLLUSION AFFIDAVIT FOR CONTRACTOR'S

STAT	E OF		
COUN	NTY OF		
	being first duly sworn,		
depos	ses and says that:		
(1)	He/She is the:		
` '	He/She is the: Owner, Partner, President, Vice President or other officer with evidence of authority attached		
	of		
	the Bidder that has submitted the attached BID;		
(2)	He/She is fully informed respecting the preparation and contents of the attached Bid and of all pertinent circumstances respecting such Bid;		
(3)	Such BID is genuine and is not a collusive or sham Bid;		
(4)	Neither the said Bidder nor any of its officers, partners, owners, agents, representatives, employees or parties in interest, including this affiant, have in any way colluded, conspired; connived or agreed, directly or indirectly, with any other Bidder, firm, or person to submit a collusive or sham Bid in connection with the Contract for which the attached Bid has been submitted; or to refrain from bidding in connection with such Contract; or have in any manner, directly or indirectly, sought by agreement or collusion, or communication, or conference with any Bidder, firm, or person to fix the price or prices in the attached Bid or of any other Bidder, or to fix any overhead, profit, or cost elements of the Bid price or the Bid price of any other Bidder, or to secure through any collusion, conspiracy, connivance, or unlawful agreement any advantage against (Recipient), or any person interested in the proposed Contract;		
(5)	The price or prices quoted in the attached Bid are fair and proper and are not tainted by any collusion, conspiracy, connivance, or unlawful agreement on the part of the Bidder or any other of its agents, representatives, owners, employees or parties in interest, including this affidavit.		
BY: _	CORPORATIONS ONLY		
ITC.			
ITS:	Title Secretary or Assistant, attest & affix corporate seal		
Subso	cribed and sworn to before me this day of , 20		
	My commission expires:		
Notar	y Public (SEAL)		



NON-COLLUSION AFFIDAVIT FOR SUBCONTRACTOR(S) (DUE WITHIN 5 DAYS OF THE BID OPENING)

STATE OF	<u> </u>
COUNTY OF	<u> </u>
den e con and cours that.	being first duly sworn,
deposes and says that:	
(1) He/She is of of	, hereinafter
(2) He/She is fully informed respecting the preparation and contents submitted by the Subcontractor to, the Contractor	of the Subcontractor's Proposal
Contract pertaining to the Project in or County, and State);	(City
(3) Such Subcontractor's Proposal is genuine and is not a collusive	e or sham proposal;
(4) Neither the Subcontractor nor any of its officers, partners, or employees or parties in interest, including this affiant, has in connived or agreed, directly or indirectly with any other Bidder, fir or sham Proposal in connection with such Contract or to refrail connection with such Contract, or has in any manner, directly agreement or connivance with any other Bidder, firm or person Contractor's Proposal, or to fix any overhead, profit or cost elem Contractor's Proposal, or to secure through collusion, consagreement any advantage against the any person interested in the proposed Contract; and	n any way colluded, conspired, mor person to submit a collusive in from submitting a Proposal in or indirectly, sought by unlawful to fix the price or prices in said nent of the price or prices in said spiracy connivance or unlawful
(5) The price or prices quoted in the Subcontractor's Proposal are far by any collusion, conspiracy, connivance or unlawful agreement of its agents, representatives, owners, employees, or parties in (Signed)	t on the part of the Bidder or any
	Title
Subscribed and sworn to before me this day of	, 20
My commission expires:	
Notary Public	
(Seal)	

EQUAL EMPLOYMENT OPPORTUNITY CERTIFICATION

During the performance of this Contract the Contractor agrees as follows:

- a. The Contractor will not discriminate against any employee or applicant because of race, color, religion, sex, or national origin. The Contractor will take affirmative action to ensure that applicants are employed, and that employees are treated during employment, without regard to race, color, religion, sex, or national origin. Such action shall include but not be limited to the following: employment, upgrading, demotion, or transfer, recruitment or recruitment advertising, layoff or termination, rates of pay or other forms of compensation, and selection for training, including apprenticeship. The Contractor agrees to post in conspicuous places, available to employees and applicants for employment, notices setting forth the provisions of the nondiscrimination clause.
- b. The Contractor will, in all solicitations or advertisements for employees placed by or on behalf of the Contractor, state that all qualified applicants will receive consideration for employment without regard to race, color, religion, sex, or national origin.
- c. The Contractor will send to each labor union or representative of workers with which he has a collective bargaining agreement or other Contract understanding, a notice; to be provided, advising the labor union or worker's representative of the Contractor's commitments under the Equal Employment Opportunity Section of this Contract, and shall post copies of the notice in conspicuous places available to employees and applicants for employment.
- d. In the event of the Contractor's noncompliance with the nondiscrimination clauses of this Contract or with any of such rules, regulations, or orders, this Contract may be canceled, terminated, or suspended in whole or in part and the Contractor may be declared ineligible for further Owner Contracts,
- e. The Contractor will include the provisions of this section in every subcontract or purchase order unless exempted by rules, regulations, or orders of the Owner so that such provisions will be binding upon each Subcontractor or vendor.

(Complete this section for signatures by a CORF	ORAT	ION):
(CORPORATE SEAL)		
ATTEST:		Corporate Name
	BY:	
Secretary* or Assistant Secretary*		President* or Vice President*
*choose one		
(Complete this section for signatures by PARTN	ERSHI	P and INDIVIDUAL):
WITNESS:		
	BY:	(Seal)
(ACKNOWLEDGEMENT OF THE ABOVE SIG		
FORM ON THE FO	OLLOW	/ING PAGE)



ACKNOWLEDGEMENT FOR EQUAL EMPLOYMENT OPPORTUNITY CERTIFICATION

Corporate Ackn	nowledgement
(Use this portion of the form for acknowledgemen	t of signature by a Corporation):
STATE OF	
COUNTY OF	
I, the undersigned notary public, do hereby certify personally appeared before me this day and acknowledge of the secretary of	owledged that he/she is Secretary* or Assistant
a corporation, and that by authority duly given a instrument was signed in its name by its <i>President</i> seal, and attested by himself as its <i>Secretary*</i> or a *choose one	nd as the act of the corporation, the foregoing nt* or Vice President*, sealed with its corporate
WITNESS my hand and notarial seal this	day of, 20
My commission expires (SEAL)	Notary Public
Individual or Partnersh	ip Acknowledgement
(Use this portion of the form for acknowledgemen	t of signature by a partnership or an individual.)
NORTH CAROLINACOUNTY	(Enter correct State and County if different than shown.)
I, the undersigned Notary Public, do hereby certify personally appeared before me this day and acknowledge instrument.	
WITNESS my hand and notarial seal this	day of, 20
My commission expires:	Notary Public (SEAL)



MINORITY BUSINESS PARTICIPATION

Provide with the Bid:

Under GS 143-128.2(c) the undersigned Bidder shall identify on its Bid Proposal the minority businesses that it will use on the Project and the total dollar value of the bid that will be performed by the minority businesses and list the good faith efforts (Affidavit A) made to solicit participation. A Contractor that performs all of the Work with its own workforce may submit an Affidavit B to that effect in lieu of Affidavit A required above.

After the Bid opening:

Orange Water and Sewer Authority will consider all bids and alternates, and determine the lowest responsible, responsive Bidder. Upon notification of being the apparent low Bidder, the Bidder shall then file within 72 hours of the notification of being the apparent lowest Bidder, the following:

An **Affidavit C** that includes a description of the portion of Work to be executed by minority businesses, expressed as a percentage of the total Contract Price, which is equal to or more than the 10% goal established. This affidavit shall give rise to the presumption that the Bidder has made the required good faith effort; or Affidavit D of its good faith effort to meet the goal. The document must include evidence of all good faith efforts that were implemented, including any advertisements, solicitations and other specific actions demonstrating recruitment and selection of minority businesses for participation in the contract.

These forms are included herein:

- (1) Identification of Minority Business Participation
- (2) Affidavit A Listing of the Good Faith Effort
- (3) Affidavit B Intent to Perform Contract with Own Workforce
- (4) Affidavit C Portion of Work to be Performed by Minority Firms
- (5) Affidavit D Good Faith Efforts

Identification of Minority Business Participation (Name of Bidder) do hereby certify that on this Project, we will use the following minority business enterprises as construction subcontractors, vendors, suppliers or providers of professional services. Firm Name, Address and Phone # Work type *Minority Category

^{*}Minority categories: Black, African American (**B**), Hispanic (**H**), Asian American (**A**) American Indian (**I**), Female (**F**) Socially and Economically Disadvantaged (**D**)



The total value of minority business contracting will be (\$)				

St	ate of North Ca	arolina AFFID	AVIT A – List	ing of the G	ood Faith	Efforts
Со	ounty of					
	idavit of				1)	Name of Bidder)
	ave made a good fait		J		fauta liata d	fan 4bain bid
	dders must earr					for their bid
	be considered i					
	that were known to the before the bid or properties.		lable on State or lo	cal government m	aintained lists a	t least 10 days
	2 – (10 pts) Making to prospective minority proposals are due.					
	3 – (15 pts) Breaking minority participation		elements of work i	nto economically f	easible units to	facilitate
	4 – (10 pts) Working Historically Underutil recruitment of minori	lized Businesses and				
	5 – (10 pts) Attendin	ng any prebid meeting	gs scheduled by the	e public owner.		
	6 – (20 pts) Providing or insurance for subc		ng required bonding	g or insurance or p	providing alterna	tives to bonding
	7 – (15 pts) Negotiat unqualified without so lack of qualification s	ound reasons based	on their capabilitie	s. Any rejection o		
	8 – (25 pts) Providin capital, lines of credit credit that is ordinaril bidder's suppliers in	t, or joint pay agreen ly required. Assisting	nents to secure load g minority business	ns, supplies, or let es in obtaining the	ters of credit, in	cluding waiving
	9 – (20 pts) Negotiat increase opportunitie possible.					
	10 – (20 pts) Providi meet cash-flow dema		nents and policies t	o enable minority	contractors and	suppliers to
of I Sul	e undersigned, if appa Minority Business Par bstitution of contractor I constitute a breach o	rticipation schedule or rs must be in accorda	conditional upon so	ope of contract to	be executed w	ith the OWNER.
	e undersigned hereby thorized to bind the Bl				ity business co	mmitment and is
Da	te:	_ Name of Authorize	d Officer:			
		S	ignature:			
/		_				
(SEAL		Title			
/	1	State of North Caroli	na, County of			-
		Subscribed and swo	rn to before me this	day of		20
	1	Notary Public		My commission	expires	_



AFFIDAVIT B - Intent to Perform Contract with Own Workforce

County of		
Affidavit of		
	(Name of Bidder)	
I hereby certify that it	is our intent to perform 100% of the work required for the	
	(Name of Project)	i
of this type project, ar	eation, the Bidder states that the Bidder does not customarily subcor and normally performs and has the capability to perform and will perfor oject with his/her own current work forces; and	
The Bidder agrees to support of the above	o provide any additional information or documentation requested by statement.	y the Owner in
	eby certifies that he or she has read this certification and is authorize	zed to bind the
Date:	Name of Authorized Officer:	
	Signature:	
	Title:	
SEAL	State of North Carolina, County of Subscribed and sworn to before me this day of Notary Public	20

My commission expires

AFFIDAVIT C -	Portion of the Wor	k to be Pe	erformed by Mind	ority Firms	
County of					
****** (NOTE: T	THIS FORM IS <u>NOT</u> TO B	E SUBMITTE	ED WITH THE BID PR	OPOSAL) *******	
to or greater than 1 This affidavit shall be	If the portion of the Work to be executed by minority businesses as defined in G. S. 143-128.2(g) is equal to or greater than 10% of the Bidders Total Contract Price, then the Bidder must complete this affidavit. This affidavit shall be provided by the apparent lowest responsible, responsive Bidder within 72 hours after notification of being low Bidder.				
Affidavit of(Name	of Bidder)		I do hei	reby certify that on the	
	(1	Project Name)			
Project ID#	num of% of the	Amoun	t of Bid \$		
enterprises. Minority	v businesses will be emplo onal services. Such work	yed as const will be subco	ruction subcontractors ontracted to the following	, vendors, suppliers or	
Name and Phone N		*Minority		Dollar Value	
Name and mone is	diffici	Category	Work acsorption	Dollar Value	
*Minority categories: Black, African American (B), Hispanic (H), Asian American (A) American Indian (I), Female (F) Socially and Economically Disadvantaged (D) Pursuant to G. S. 143-128.2(d), the undersigned will enter into a formal agreement with Minority Firms for work listed in this schedule conditional upon execution of a contract with the Owner. Failure to fulfill this commitment may constitute a breach of the contract.					
	reby certifies that he or she the commitment herein se		e terms of this commitr	ment and is authorized	
Date:	Name of Authorized Offic	er:			
	Signatu	ıre:			
	State of North Carolina, Co				
SEAL	Subscribed and sworn to b				
	Notary Public		-		
	My commission expires				



PROJECT: Jones Ferry Road WTP Finished Water Distribution Resiliency Improvements,

DATE: February 6, 2020

AFFIDAVII D - Good Faith Efforts
County of
******** (NOTE: THIS FORM IS <u>NOT</u> TO BE SUBMITTED WITH THE BID PROPOSAL) *********
If the goal of 10% participation by minority business is not achieved, the Bidder shall provide the following documentation to the Owner of his good faith efforts:
Affidavit of:
(Name of Bidder)
I do certify the attached documentation as true and accurate representation of my good faith efforts.

(Attach additional sheets if required)

Name and Phone Number	*Minority Category	Work description	Dollar Value

^{*}Minority categories: Black, African American (**B**), Hispanic (**H**), Asian American (**A**) American, Indian (**I**), Female (**F**) Socially and Economically Disadvantaged (**D**)

Documentation of the Bidder's good faith efforts to meet the goals set forth in these provisions. Examples of documentation include, but are not limited to, the following evidence:

- A. Copies of solicitations for quotes to at least three (3) minority business firms from the source list provided by the State for each subcontract to be let under this contract (if 3 or more firms are shown on the source list). Each solicitation shall contain a specific description of the work to be subcontracted, location where bid documents can be reviewed, representative of the Prime Bidder to contact, and location, date and time when quotes must be received.
- B. Copies of quotes or responses received from each firm responding to the solicitation.
- C. A telephone log of follow-up calls to each firm sent a solicitation.
- D. For subcontracts where a minority business firm is not considered the lowest responsible sub-bidder, copies of quotes received from all firms submitting quotes for that particular subcontract.
- E. Documentation of any contacts or correspondence to minority business, community, or contractor organizations in an attempt to meet the goal.
- F. Copy of pre-bid roster.
- G. Letter documenting efforts to provide assistance in obtaining required bonding or insurance for minority business.
- H. Letter detailing reasons for rejection of minority business due to lack of qualification.
- I. Letter documenting proposed assistance offered to minority business in need of equipment, loan capital, lines of credit, or joint pay agreements to secure loans, supplies, or letter of credit, including waiving credit that is ordinarily required.



PROJECT: Jones Ferry Road WTP Finished Water Distribution Resiliency Improvements,

DATE: February 6, 2020

AFFIDAVIT D – Good Faith Efforts (continued)

	documentation as listed in these provisions may result in rejection of the later transportation and responsive bidder.	bid and
Date:	Name of Authorized Officer:	
	Signature:	
	Title:	
SEAL	State of North Carolina, County of Subscribed and sworn to before me this day of Notary Public My commission expires	20

-END OF DOCUMENT-

PROJECT: Jones Ferry Road WTP Finished Water Distribution Resiliency Improvements,

DATE: February 6, 2020

This Page Intentionally Left Blank

PROJECT: Jones Ferry Road WTP Finished Water Distribution Resiliency Improvements,

DATE: February 6, 2020

ATTACHMENT 1

PRICE QUOTATION FOR FACILITY SCADA SYSTEM MODIFICATIONS



WWW.CITI-LLC.COM

CITI SCOPE PROPOSAL C20010 R2

Date: January 24, 2020

To: Bidding Contractors

Project: OWASA Jones Ferry Road

Finished Water Distribution Resiliency Improvements

Reference: Specification and Drawings from Matthew Miles email that was received by CITI on

January 4, 2020. Two further emails from Matthew Miles detailing changes to add float

switches.

CITI, LLC, an equipment supplier, offers to furnish the following described materials and services as our scope in accordance with the attached "Conditions of Sale" and other provisions that are referenced herein. This proposal shall remain in effect for 90 days.

Please note that CITI, LLC is a N.C. Dept. of Administration HUB certified Hispanic owned business.

GENERAL DESCRIPTIONS

This project is to enhance the capability of the piping network from the plant to various offsite towers and tanks. At the completion of this project, the plant will have two piping paths of providing water to the towers and tanks. Part of this includes adding a flow meter and two pressure transducers.

The two pressure transducers (PE/PIT-FW-01 and PE/PIT-FW-02) will have a local display and will also be connected to PLC-SHF, and PLC-1-R4 respectively. These PLC connections will allow for display and alarming capabilities on the SCADA. The pressure transducers will not have any interlocks to plant equipment.

The new flow meter (FE/FIT-FW-02), connected to PLC-1-R4, will be a second source of flow measurement for those times when the water is not going through the original path out of the plant. Currently, this existing original path has a flow meter (Currently labelled as FIT-Finished and will be relabeled to FE.FIT-FW-01) to measure flow. This flow meter is also integrated into various chemical feed systems. As part of this project, we will be adding a selector switch on SCADA so that the operators can determine rather FW-01 or FW-02 will be the flow that is used by the chemical feed systems. The new flow meter will also totalize flows and provide alarms. Flow totalization will be continuous, yesterday total flow, and todays total flow.

We will also be adding two level switches (LSH-FW-03 and LSH-FW-04).

CITI Scope Summary

<u> </u>	Tr Goope Cammary			
Base	Base Materials			
Qty	<u>Description</u>			
1	24" Flow Meter suitable for outdoor mounting with grounding rings, remote transmitter, and surge protection			
2	Pressure Transducer suitable for outdoor mounting with block and bleed valve, local display, and surge protection			

CITI Scope Proposal C20010 R2 OWASA Jones Ferry Road Finished Water Distribution Resiliency Project January 24, 2020 Page 2 of 4

WWW.CITI-LLC.COM

Base	Base Materials		
<u>Qty</u>	Qty Description		
3	In panel surge suppressors for PLC-SHF and PLC-1-R4.		
4	Level Switches LSH-FW-03 and LSH-FW-04		

Service	<u>es</u>
Qty	Description
1	Instrumentation commissioning of two pressure transducers and a flow meter
1	PLC programming of PLC-SHF and PLC-1-R4 to enable the functionality above.
1	SCADA Programming as required to enable the functionality described above.
1	Project management coordination meetings attendance at site as required
1	Field modifications of PLC-SHF and PLC-1-R4.
1	Combined digital hardware and field instrumentation submittal for all panel equipment and instruments in this scope
1	Graphics Submittal for SCADA graphics
1	O&M Manual Generation

CITI Base Price Summary (See Clarification #12)

Pricing for CITI scope of materials and services	Total excluding taxes =	\$22,073.00
	Total with taxes on materials	\$23,249.02

CITI Clarifications:

- 1. The scope of this proposal is detailed above. Anything not listed is excluded. Some excluded items are:
 - Equipment mounting racks and stands, sensor support brackets, instrument and panel sunshades, support anchors and hardware, flange fitting accessory kits, pipe taps, isolation valves, sample pumps, sample piping, impulse piping, grounding wire and rods, stilling wells, etc. as may be required or shown on the contract drawings, unless specifically listed in our materials scope;
 - Field wiring materials, power disconnect switches, conduits, junction boxes, and pull boxes;
 - Surge protection for field components and instruments supplied by others;
 - Nametags for field components and instruments supplied by others;
 - PLC program development software licenses;
 - Sunshades;
 - Field instrument and panel sunshades;
 - Materials not specifically listed in our scope;
 - Building or work permits;
 - Demolition or relocation of existing instrumentation and controls equipment (we will recalibrate equipment after it is physically relocated by others);
 - Onsite supervision of equipment installation;
 - Installation of panels and field process components/instruments, field wiring and network cabling;



CITI Scope Proposal C20010 R2 OWASA Jones Ferry Road Finished Water Distribution Resiliency Project January 24, 2020 Page 3 of 4

WWW.CITI-LLC.COM

- Field wiring terminations of power and control wiring at panels, field instruments, and process components;
- Field terminations of fiber and copper communications network cabling;
- Component inspections and startup for field process components/instruments and panels supplied by others.
- 2. All instruments and panels furnished under the scope of this proposal will be provided with the manufacturers' standard finish.
- 3. Materials will be released for manufacture and shipment to the job site upon receipt of the approved submittal and your authorization. After your authorization to release, you must accept deliveries when equipment is available. You must assume custody upon delivery and provide suitable facilities in accordance with the specifications for on-site storage until materials are installed and powered. Our hardware submittals will be available within 8 weeks after receipt of an executed order. Materials can be fully delivered in accordance with an agreed upon schedule within 16 weeks after approval of the submittal.
- 4. After your completion of equipment installation and field wiring terminations, we will begin the field services for commissioning our panels and field instruments. You will need to have qualified staff present during this testing to assist in verifying that each external connection to the equipment is correctly wired and to operate the interconnected field process equipment and panels furnished by others.
- 5. All materials are warranted for 18 months after delivery, 12 months after completion of their respective acceptance testing, or 12 months after the original project completion date, whichever occurs first. We will be responsible for shipping and repair costs for non-conforming or defective items during the warranty period. You will be responsible for removal, return shipment, receipt, and re-installation of any equipment items which you originally installed.
- 6. Our insurance coverage is: general liability \$1,000,000/\$2,000,000; auto liability \$1,000,000; excess liability \$1,000,000; and workers compensation \$1,000,000. If any additional coverage or endorsements are required, the charges for additions to our policy will be charged to you as an extra expense at actual cost times a multiplier of 1.15.
- 7. We will retain all rights to Intellectual Property developed under this project and will grant the end user non-transferable rights to its use and modification.
- 8. Shipping is FOB factory, freight cost allowed. Payment terms for this project are net 30 days, contingent upon approved credit, after the date of each invoice. Payment to CITI shall not be dependent on you being paid by any third parties. Materials that are delivered or approved for storage in our facility will be billed complete at time of delivery/storage in accordance with a presubmitted schedule of values. Services will be billed on a percentage completed against this schedule of values.
- 9. We will accept retainage being withheld from progress payments due to us if the Owner is applying retainage against the prime contract. Five percent retainage may be withheld until our work is 50% complete by approved billings, after which 0% may be withheld. Partial and full retainage releases must be made within the earlier of: seven days of Owner's payment of retainage to you; or 60 days from the completion of our scope of work.
- 10. If you request for us to start work prior to receipt of an executed purchase order, it will be understood that you accept this proposal with its clarifications and conditions of sale, and negotiation of a purchase order with different terms and conditions will not be considered.
- 11. We will accept a purchase order for our scope of supply subject to these clarifications and the attached CITI, LLC "Conditions of Sale". A subcontract will not be accepted. The order will need to incorporate this proposal or specifically include within its body the listing of materials, services, and clarifications from this proposal so as to define our scope of supply and terms. Flow down clauses will not be accepted. All terms of our agreement must be specifically listed in the order. Assignment of order is subject to our written consent.



CITI Scope Proposal C20010 R2 OWASA Jones Ferry Road Finished Water Distribution Resiliency Project January 24, 2020 Page 4 of 4

WWW.CITI-LLC.COM

12. The total price assumes that a completed NCDOR E-589CI, or other form of tax exemption, will be provided at the time the purchase order is issued. A completed NCDOR E-589CI Affidavit of Capital Improvement is needed if the work is to be taxed as a real property contract with respect a capital improvement to real property. If a completed NCDOR E-589CI is completed, then the total with taxes on materials price is valid. In the absence of completed tax exemption forms, we will apply taxes to all invoices for labor and materials as applicable.

If you have any questions about our scope of supply please call us. Thank you for your consideration.

CITI, LLC

Grant Van Hemert, P.E. Project Manager

Attachment: CITI, LLC Conditions of Sale

CITI, LLC CONDITIONS OF SALE

1. GENERAL: Sales by CITI, LLC, (herein CITI) are made solely under the conditions expressly set forth herein. Any proposed changes or exceptions to these conditions, or additional terms and conditions, included or referenced in Purchaser's order or acceptance of this offer, are hereby rejected by CITI, and shall be of no force or effect upon CITI unless expressly accepted in writing by CITI.

This Contract shall bind and inure to the benefit of Purchaser and CITI, as well as their respective successors and assigns; however, neither party may assign this Contract without prior written consent of the other.

Neither party shall be deemed to have waived its rights by failing to enforce any particular provision of this Contract.

If a court invalidates any portion of this Contract, the rest of this Contract shall remain valid and be construed as if not containing the invalidated provision.

North Carolina law shall govern the rights and obligations of the parties. Either party may pursue any legal means available to resolve disputes or claims arising out of or relating to this Contract. Both parties agree to the jurisdiction for resolution of disputes under this order as Mecklenburg County, North Carolina. Each party shall be responsible for their own legal fees in any matter related to this agreement.

- 2. CREDIT APPROVAL: If at any time information available on Purchaser's financial condition or credit history, in CITI's judgment, does not justify the terms of payment specified herein, CITI may require full or partial payment in advance, or an acceptable form of payment guarantee such as a bank letter of credit, or other modifications to the terms of payment.
- 3. PROPRIETARY INFORMATION: All information, data, drawings, instruction and operation manuals furnished by CITI with this Contract are proprietary to CITI, submitted in strict confidence, and are to be used by Purchaser solely for the purposes of this Contract, and shall not be reproduced, transmitted, disclosed or used in any other manner without CITI's written authorization.
- 4. **RISK OF LOSS**: Risk of loss or damage to the Products, or any part thereof, shall pass to Purchaser at the f.o.b. ship point stated herein.
- 5. **EXCUSABLE DELAY**: CITI shall not be liable for failure to perform or for delay in performance due to fire, flood, or any other act of God; strike or other labor difficulty, including the bankruptcy of any suppliers to CITI, act of any civil or military authority or of Purchaser; riot; embargo; delay in or shortage of transportation facilities; or any other delay beyond CITI's reasonable control. In the event CITI's performance is delayed by any such cause, CITI's schedule for performance shall be extended accordingly. If Purchaser's actions delay CITI's performance, Purchaser shall pay CITI any additional costs incurred by CITI resulting from such delay. If Purchaser delays shipment of Products, or any part thereof, in addition to paying CITI for additional costs incurred, Purchaser shall also pay for the Products or the parts on the date CITI is prepared to make shipment.
- 6. TAXES AND LICENSES: The Purchase Price does not include any licenses or State or local taxes of any kind applicable to the sale, use or delivery of the Products or services covered under this Contract. Purchaser shall pay direct or reimburse CITI for any such license fees or taxes that CITI or CITI's subcontractors or suppliers are required to pay. CITI will apply taxes to all invoices for labor and materials as applicable to the State where the work is sold. If an exemption is being claimed, all relevant exemption forms must be provided to CITI at the time of execution of this Contract.
- 7. **INSPECTION BY PURCHASER**: Purchaser may inspect the Products at Purchaser's expense at the point of manufacture, provided that such inspection is arranged and conducted so as not to unreasonably interfere with CITI's or the manufacturer's operations. Purchaser's inspection of the Products and release for shipment shall constitute Purchaser's acceptance of the Products as conforming to the requirements of this Contract
- 8. WARRANTY: CITI warrants the Products from defects in material and workmanship for a period of one (1) year from date the Products are initially placed in operation, or eighteen (18) months from date the Products are shipped, whichever occurs first, provided that the Products are stored, installed, maintained and operated in accordance to the manufacturers recommendations and are protected from harm or damage including but not limited to fire, water, physical damage, exposure to inclement weather, extreme temperatures, and not subjected to misuse, neglect or accident. Upon prompt written notice of and determination that such defect is covered under the foregoing warranty, CITI's responsibility is limited to correction of the

defect by, at CITI's option, repair or replacement of the defective part or parts, f.o.b. factory. CITI will not accept responsibility for incidental or consequential damages. Unless stated elsewhere herein, CITI provides no warranty of product performance or process results. The foregoing warranties are exclusive and in lieu of all other warranties of any kind, including any implied warranty of merchantability or fitness for a particular purpose.

Any products repaired or replaced under this warranty will be warranted for the remainder of the original warranty period. CITI shall have no responsibility for the condition of primed or finish painted surfaces after the Products leave their point of manufacture.

Field touch-up of shop primed or painted surfaces is normal and shall be at Purchaser's expense. Any touch-up or repainting required to shop primed or painted surfaces, for reasons other than improper or incorrect application in the shop, shall be Purchaser's responsibility.

Purchaser shall be responsible for unpacking and inspecting all shipped Products and noting any damage on the shipper's bill of lading. Any damage must be reported to CITI within 48 hours of receipt of shipment by Purchaser.

9. **PAYMENT TERMS.** CITI's payment terms are Net 30 days from date of CITI invoice. If Purchaser is late in paying the Purchase Price or any partial payment due under this Contract, or otherwise breaches this Contract, CITI shall be entitled to interest at 1½% per month on the overdue amount, and on its damages, calculated from the date of default in payment or other breach, plus court costs, reasonable attorneys' fees and other expenses incurred in any effort to collect.

No retainage on the equipment, products, services, or any part thereof, is allowed unless prior approved by CITI. Full retainage release must be made within the earlier of: seven days after purchaser receives payment of retainage, 60 days from the completion of CITI's scope of work, or 180 days after delivery, whichever occurs first

- 10. **BACKCHARGES**: CITI shall not be liable for any charges incurred by Purchaser for work, repairs, replacements or alterations to the Products, without CITI's prior written authorization, and any adverse consequences resulting from such unauthorized work shall be Purchaser's full responsibility.
- 11. **LIMITATION OF LIABILITY:** CITI shall not be liable to purchaser for any special, indirect, incidental or consequential damages arising from CITI's obligations under this contract, whether such damages are based upon breach of contract, breach of warranty, tort, strict liability or otherwise. In any event, CITI's liability to purchaser shall not exceed the purchase price of the products or parts of the products on which such liability is based.
- 12. CANCELLATION BY PURCHASER: If Purchaser cancels this Contract or refuses to accept delivery of the Products, Purchaser shall be liable to CITI for reasonable cancellation charges, including loss of anticipated profits, administrative costs, commissions to sales representatives, costs incurred by CITI for all work performed or in process up to the time of cancellation or refusal to accept delivery, cancellation charges from CITI's suppliers or subcontractors, and any other expenses incurred by CITI in connection with Purchaser's cancellation or refusal to accept delivery.
- 13. **DEFAULT BY PURCHASER**: Without incurring any liability or waiving any claim for damages CITI may have against Purchaser, CITI may refuse to make or delay making delivery, and/or withhold any service, and/or ship C.O.D., and/or apply payments to open balances at CITI discretion, if:
- (a) Purchaser breaches this or any contract with CITI, or; (b) CITI fails to receive payment within 30 days from date of invoice, or; (c) CITI becomes aware of facts which, in its judgment, render Purchaser's financial condition unsatisfactory or cast doubt on Purchaser's willingness or ability to pay for the Products and/or services, or; (d) Purchaser engages in or consents to liquidation, commission of any act of insolvency, appointment of a receiver of assets or assignment for the benefit of creditors, or if Purchaser becomes the subject of any bankruptcy or insolvency proceeding.

 Rev 12/2017



SITE INFORMATION

OWASA 400 JONES FERRY RD CARRBORO, NC 27510

SITE ADDRESS: 400 JONES FERRY RD CARRBORO, NC 27510

PROJECT NARRATIVE

THE SCOPE OF THIS PROJECT IS TO IMPROVE WATER DISTRIBUTION RESILIENCY AT OWASA'S JONES FERRY WATER TREATMENT PLANT (WTP). IMPROVEMENTS CONSIST OF REPLACING EXISTING FORCEMAINS WITH THREE 24" LINES ADDITIONAL PIPING, VAULTS, AND GRADING. STORMWATER RUNOFF WILL NOT BE IMPACTED WITH THE COMPLETION OF THIS PROJECT.

SURVEY AND ENVIRONMENTAL NOTES

- EXISTING SITE FEATURES BASED ON DRAWINGS BY HAZEN AND SAWYER DATED FEBRUARY 1993 AND SURVEY PERFORMED BY STEWART.
- HORIZONTAL DATUM IS NAD 1983 AND VERTICAL DATUM IS NAVD 1988. SURVEY WAS PERFORMED BY STEWART DATED NOVEMBER 25, 2018 AND REVISED DECEMBER 4,
- 3. INFORMATION BEYOND SURVEY LIMITS ACQUIRED FROM TOWN OF CARRBORO GIS AND HAZEN DRAWINGS.
- 4. FLOODPLAIN INFORMATION BASED ON FEMA FIRM MAP NUMBERS 3710977800K, MAP REVISED NOVEMBER 17,
- THERE ARE NO FLOODPLAIN AREAS ON SITE.

GENERAL NOTES

- 1. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE TECHNICAL SPECIFICATIONS AND ALL APPLICABLE PERMITS.
- 2. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR SITE SAFETY ASSOCIATED WITH THE WORK UNDER THIS PROJECT AND FOR COMPLIANCE WITH ALL FEDERAL, STATE AND LOCAL HEALTH AND SAFETY LAWS, CODES, REGULATIONS, AND ORDINANCES INCLUDING BUT NOT LIMITED TO THOSE CURRENTLY MANDATED BY THE OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA).
- 3. CONTRACTOR SHALL USE ADEQUATE SHORING METHODS TO ENSURE:
 - 3.A. COMPLIANCE WITH OSHA REGULATIONS.
 - 3.B. PROTECTION OF EXISTING PAVEMENT AND ROAD SHOULDERS, STRUCTURES AND UTILITIES.
 - 3.C. CONSTRUCTION ACTIVITIES ARE CONFINED TO RIGHTS-OF-WAY OR EASEMENTS AS INDICATED
- 4. LIMITS OF DISTURBANCE (LOD) SHALL BE AS INDICATED ON THE CONTRACT DRAWINGS. ANY CHANGES TO THE LOD BY THE CONTRACTOR SHALL REQUIRE PRIOR APPROVAL FROM THE ENGINEER. ALL AREAS DISTURBED BEYOND INDICATED LIMITS SHALL BE RESTORED TO PRE-EXISTING CONDITIONS REGARDLESS OF AREA AFFECTED AT NO ADDITIONAL COST TO THE
- LOCATION OF EXISTING UTILITIES, PIPING, AND SITE ITEMS SHOWN ON THESE PLANS WERE COMPILED BASED ON THE BEST INFORMATION AVAILABLE, INCLUDING A COMBINATION OF FIELD SURVEY AND RECORD DRAWINGS. THESE LOCATIONS ARE NOT CONSIDERED TO BE EXACT OR COMPLETE. CONTRACTOR SHALL VERIFY THESE LOCATIONS BOTH HORIZONTALLY AND VERTICALLY PRIOR TO CONSTRUCTION. LOCATE WELL AHEAD OF EXCAVATION AND PIPE LAYING OPERATIONS TO ALLOW FOR ADJUSTMENT TO PIPE ALIGNMENT AND ELEVATION AS REQUIRED. NO SEPARATE PAYMENT WILL BE MADE FOR FIELD VERIFICATION OR ADJUSTMENT OF DEPTH AS REQUIRED.
- 6. CONTRACTOR SHALL COORDINATE WITH ALL UTILITY COMPANIES AND FIELD VERIFY THE LOCATION AND DEPTH OF ALL UTILITIES PRIOR TO CONSTRUCTION. CALL THE NORTH CAROLINA ONE CALL SYSTEM (811 OR 1-800-632-4949) AT LEAST 72 HOURS PRIOR TO DIGGING FOR LOCATION ASSISTANCE. CONTRACTOR IS RESPONSIBLE FOR CONTACTING ALL UTILITIES, WHETHER THEY ARE A MEMBER OF PUPS OR NOT, PRIOR TO DIGGING. CONTRACTOR SHALL REPAIR AT HIS OWN EXPENSE, ANY DAMAGE CAUSED BY CONSTRUCTION RELATED ACTIVITIES TO EXISTING UTILITY SERVICE LINES.
- 7. IN THE EVENT OF DAMAGE TO EXISTING

S. NASH

S. NASH

1/2"

M. SANTOWASSO

ISSUED FOR

CONSTRUCTION

DESIGNED BY

DRAWN BY

CHECKED BY:

IF THIS BAR DOES NOT

IS NOT TO FULL SCALE

MEASURE 1" THEN DRAWING

2/2020

1/2020

DATE

FB

FΒ

ADDENDUM NO. 1

CONSTRUCTION

ISSUED FOR

- UTILITIES, CONTRACTOR SHALL STOP WORK IMMEDIATELY, TAKE NECESSARY PRECAUTIONS TO PREVENT INJURY OR FURTHER DAMAGE, AND NOTIFY PROPER AUTHORITIES. CONTRACTOR SHALL BE RESPONSIBLE FOR RESTORING/REPAIRING ALL EXISTING STRUCTURES, CONDUITS, OR OTHER UTILITIES DAMAGED BY CONTRACTOR'S OPERATIONS AT NO COST TO OWNER.
- 8. REMOVAL AND REPLACEMENT OR REPAIR OF EXISTING UTILITY SERVICES SHALL BE COORDINATED WITH APPROPRIATE UTILITY COMPANY AT NO ADDITIONAL COST TO THE
- IT WILL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE WITH POWER AND TELEPHONE COMPANIES FOR RELOCATING OR STABILIZING ANY EXISTING POLES WHICH WILL BE DISTURBED BY CONSTRUCTION. THIS WORK SHALL BE DONE AT NO COST TO OWNER.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL AND REPLACEMENT TO ORIGINAL OR BETTER CONDITION OF ALL EXISTING PAVEMENTS, GRAVEL ROADWAYS, PIPE CULVERTS, FENCES, AND MISCELLANEOUS ITEMS WHERE REQUIRED TO COMPLETE THE CONSTRUCTION.
- 11. ALL HOLES, TRENCHES, AND OTHER HAZARDOUS AREAS SHALL BE ADEQUATELY PROTECTED BY BARRICADES, LIGHTS OR OTHER PROTECTIVE DEVICES.
- 12. REMOVAL OF EXCAVATED MATERIALS AND DAILY CLEANUP OPERATIONS SHALL BE PERFORMED IN COMPLIANCE WITH THE SPECIFICATIONS AND TO THE SATISFACTION OF THE OWNER/ENGINEER.
- 13. EXCESS/UNSUITABLE SPOIL TO BE REMOVED FROM SITE. PRIOR TO BEGINNING CONSTRUCTION, CONTRACTOR SHALL SUBMIT THE OFF-SITE SPOIL LOCATIONS TO BE USED AND PROVIDE DOCUMENTATION OF PERMITTED EROSION CONTROL MEASURES AND ALL OTHER APPLICABLE PERMITS TO BE PROVIDED DURING DISPOSAL OPERATIONS. CONTRACTORS OFF-SITE SEDIMENT CONTROL MEASURES MUST BE APPROVED BY NCDEQ PRIOR TO SPOIL DISPOSAL.
- 14. ALL EROSION AND SEDIMENTATION CONTROLS SHALL BE IMPLEMENTED BEFORE CONSTRUCTION COMMENCES AND SHALL NOT BE REMOVED UNTIL PERMANENT GROUND COVER STABILIZATION HAS BEEN ESTABLISHED.
- 15. THERE IS NO PAY ITEM FOR DEWATERING AND NO SEPARATE PAYMENT WILL BE MADE FOR DEWATERING. ANY DEWATERING OF **EXCAVATIONS REQUIRED IS THE** RESPONSIBILITY OF THE CONTRACTOR AND SHALL BE DONE AT NO ADDITIONAL COST TO THE OWNER.
- 16. THE CONTRACTOR SHALL RECORD AND SUPPLY TO THE ENGINEER THE LOCATION OF ALL UTILITIES CROSSED AND THE NEW LOCATION AND DEPTH OF ALL RELOCATED AND/OR ADJUSTED UTILITIES.

CONSTRUCTION SEQUENCE

- EROSION AND SEDIMENT CONTROL (E&SC) PERMIT AND A CERTIFICATE OF COVERAGE (COC) MUST BE OBTAINED BEFORE ANY LAND DISTURBING ACTIVITIES OCCUR. A COPY OF THE E&SC PERMIT, THE COCO, AND A HARD COPY OF THE PLAN MUST BE KEPT ON SITE, PREFERABLY IN A PERMITS BOX, AND ACCESSIBLE DURING INSPECTION. THE COC SHALL BE OBTAINED BY COMPLETING THE ELECTRONIC NOTICE OF INTENT (E-NOI) FORM AT DEQ.NC.GOV/NCG01.
- THE CONTRACTOR SHALL SIGN AND IMPLEMENT THE REQUIREMENTS OF THE STATE-APPROVED EROSION CONTROL & SEDIMENTATION CONTROL PERMIT AND THE NORTH CAROLINA NPDES GENERAL PERMIT FOR STORMWATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITIES. THE CONTRACTOR SHALL ALSO POST THE APPROVED EROSION & SEDIMENTATION CONTROL PERMIT ON THE JOB SITE AND SHALL NOTIFY THE NORTH CAROLINA STATE LAND QUALITY SECTION AT (919) 791-4200 AT LEAST 72 HOURS PRIOR TO BEGINNING CONSTRUCTION ACTIVITIES TO SCHEDULE A PRE-CONSTRUCTION MEETING.
- 3. PRIOR TO ANY LAND DISTURBING ACTIVITIES, THE CONTRACTOR SHALL INSTALL ALL TEMPORARY PERIMETER EROSION CONTROL MEASURES, AS INDICATED ON THE CONTRACT DRAWINGS. THE CONTRACTOR SHALL SPECIFICALLY INSTALL THE TEMPORARY GRAVEL CONSTRUCTION ENTRANCE, SILT FENCE, TREE PROTECTION FENCE, AND INLET PROTECTION WHERE APPLICABLE.
- 4. ONCE ALL TEMPORARY EROSION CONTROL MEASURES HAVE BEEN INSTALLED, THE SITE SHALL BE CLEARED AND GRUBBED, AS (LOD) AS SHOWN ON THE CONTRACT DRAWINGS. ANY ADJUSTMENTS TO THE LOD SHALL REQUIRE PRIOR APPROVAL FROM THE ENGINEER AND OWNER.
- 5. SELF-INSPECTIONS FOR EROSION AND SEDIMENTATION CONTROL MEASURES ARE TO BE PERFORMED AT LEAST ONCE EVERY SEVEN CALENDAR DAYS AND WITHIN 24 HOURS OF EVERY RAIN EVEN OF GREATER THAN 1/2 INCH. ANY NEEDED REPAIRS SHALL BE MADE IMMEDIATELY TO MAINTAIN MEASURES AS DESIGNED. ALL ESC MEASURES SHALL BE MAINTAINED AS SPECIFIED IN THE CONSTRUCTION DETAILS IN THIS PLAN. A RAIN GAUGE SHALL BE INSTALLED AT THE PROJECT SITE FOR MONITORING.
- THE CONTRACTOR SHALL CONDUCT SELF-INSPECTIONS OF THE EROSION AND SEDIMENTATION CONTROL MEASURES AND COMPLETE THE FOLLOWING COMBINED SELF-INSPECTION FORM FOUND ON THE DEMLR WEBSITE (HTTP://DEO.NC.GOV/ABOUT/DIVISIONS/ ENERGY-MINERAL-LAND-RESOURCES/ EROSION-SEDIMENT-CONTROL/FORMS). COMPLETE INSPECTION FORMS SHALL BE KEPT ON-SITE AND AVAILABLE FOR INSPECTION AT ALL TIMES. IT IS RECOMMENDED A COPY BE KEPT IN A PERMITS BOX.
- 7. ONCE CLEARING AND GRUBBING IS COMPLETE, CONSTRUCTION ACTIVITIES MAY BEGIN.

HAZEN AND SAWYER

4011 WESTCHASE BOULEVARD, SUITE 500

RALEIGH, NORTH CAROLINA 27607

LICENSE NO.: C-0381

- 8. ALL EXCESS SOIL RESULTING FROM EARTHWORK OPERATIONS SHALL BE REMOVED FROM SITE BY CONTRACTOR. ANY SOILS TAKEN OFFSITE BECOMES THE CONTRACTORS RESPONSIBILITY, AND SHALL COMPLY WITH ALL REQUIRED STATE AND LOCAL REGULATIONS AND PERMITS
- 9. ALL PIPE WORK SHALL BE INSTALLED IN ACCORDANCE WITH STANDARD CONSTRUCTION TECHNIQUES. ONLY THE LENGTH OF TRENCH IN WHICH PIPE CAN BE INSTALLED IN ONE DAYS TIME SHALL BE OPEN AT ANY TIME, WITH SPOIL MATERIAL PLACED ON THE UPHILL SIDE OF THE TRENCH. TRENCH SHALL BE BACKFILLED AT END OF EACH DAYS WORK AND DISTURBED AREA SEEDED WITH TEMPORARY SEEDING MEASURES IF APPROPRIATE.
- 10. TEMPORARY SEEDING MEASURES SHALL BE EMPLOYED AS SOON AS PRACTICABLE ON DISTURBED AREAS BUT IN ANY EVENT WITHIN FOURTEEN (14) DAYS. IF CONSTRUCTION IS TEMPORARILY CEASED AND EARTH-DISTURBING ACTIVITIES WILL BE RESUMED WITHIN FOURTEEN (14) DAYS, TEMPORARY STABILIZATION MEASURES ARE NOT NEEDED. DISTURBED SLOPES STEEPER THAN 3:1 SHALL BE TEMPORARILY SEEDED WITHIN SEVEN (7) DAYS UNLESS SLOPE LENGTH IS TEN (10) FEET OR LESS AND NOT STEEPER THAN 2:1. DISTURBED SLOPES 3:1 OR FLATTER SHALL BE TEMPORARILY SEEDED WITHIN FOURTEEN (14) DAYS UNLESS SLOPE LENGTH IS GREATER THAN 50 FEET. SLOPES WITH A HEIGHT EXCEEDING EIGHT (8) FEET SHALL BE STABILIZED WITH SYNTHETIC OR VEGETATIVE MATS IN ADDITION TO HYDROSEEDING.
- REQUIRED, WITHIN THE LIMITS OF DISTURBANCE 11. STORM DRAINAGE INLETS SHALL BE PROTECTED WITH APPROPRIATE EROSION CONTROL MEASURES AT ALL TIMES. ADDITIONAL EROSION AND SEDIMENT CONTROLS SHALL BE INSTALLED AS NECESSARY, AND CONTRACTOR SHALL RELOCATE AND REPLACE MEASURES AS CONSTRUCTION ACTIVITIES REQUIRE.
 - 12. ONCE ALL EARTHWORK AND CONSTRUCTION ACTIVITIES ARE COMPLETE, FINAL GRADING MAY BEGIN.
 - 13. UPON COMPLETION OF FINAL GRADING PERMANENT SEEDING SHALL BE APPLIED ON ALL DISTURBED AREAS. VEGETATIVE GROUND COVER SHALL BE APPLIED ON ALL DISTURBED AREAS AS OUTLINED IN NOTE 7, ABOVE. SEEDING SHALL BE APPLIED, AND REAPPLIED, TO ALL BARE SPOTS AS NEEDED.
 - 14. SEDIMENT AND EROSION CONTROL MEASURES MAY BE REMOVED ONCE FINAL GRADING IS COMPLETE AND SITE STABILIZED, PERMANENT GROUND COVER HAS BEEN ESTABLISHED, AND APPROVAL FROM OWNER OR ENGINEER HAS BEEN RECEIVED.
 - 15. WHEN THE PROJECT IS COMPLETE, THE PERMITTEES SHALL CONTACT DEMLR TO CLOSE OUT THE E&SC PLAN. AFTER DEMLR INFORMS THE PERMITTEE OF THE PROJECT CLOSE OUT, VIA INSPECTION REPORT, THE PERMITTEE SHALL VISIT DEQ.NC.GOV/NCG01 TO SUBMIT AN ELECTRONIC NOTICE OF TERMINATION (E-NOT).

CARRBORO, NORTH CAROLINA

JONES FERRY ROAD WTP

FINISHED WATER DISTRIBUTION

RESILIENCY IMPROVEMENTS

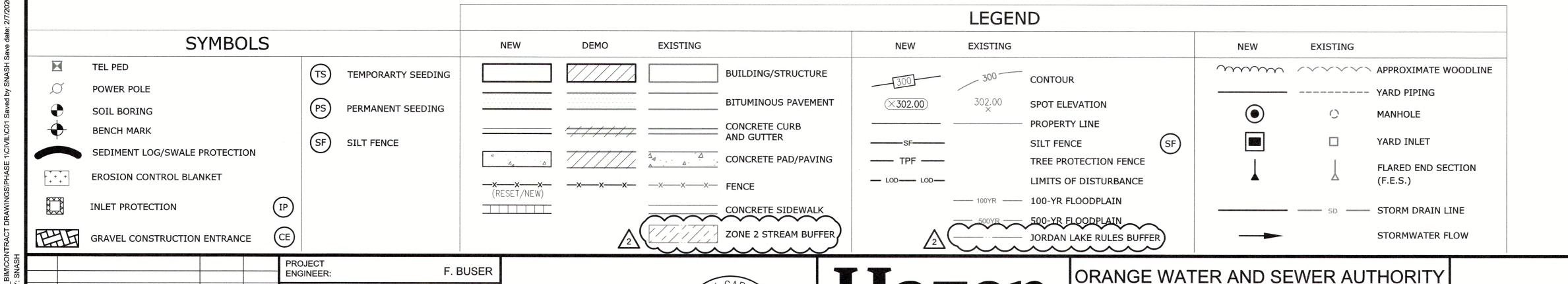
SEDIMENT AND EROSION CONTROL NOTES:

- 1. DUE TO THE NATURE OF THE WORK REQUIRED BY THIS CONTRACT, IT IS ANTICIPATED THE LOCATION AND NATURE OF EROSION AND SEDIMENT CONTROL MEASURES WILL BE ADJUSTED AS CONSTRUCTION PROGRESSES TO REFLECT THE CURRENT PHASE OF WORK. THE CONSTRUCTION SCHEDULE ADOPTED BY THE CONTRACTOR WILL IMPACT THE PLACEMENT AND NEED FOR SPECIFIC DEVICES REQUIRED FOR THE CONTROL OF EROSION. THE LOCATION AND EXTENT OF EROSION AND SEDIMENT CONTROL MEASURES SHALL BE REVISED AT EACH PHASE OF CONSTRUCTION RESULTING IN A CHANGE OF EITHER THE QUANTITY OR DIRECTION OF SURFACE RUNOFF FROM THE CONSTRUCTION AREAS. EROSION AND SEDIMENT CONTROL MEASURES SHALL REMAIN IN PLACE AT THE CONCLUSION OF THE PROJECT.
- 2. CONTRACTOR SHALL OBTAIN PRIOR APPROVAL FROM THE ENGINEER, OWNER, AND REGULATORY AGENCIES FOR DEVIATIONS FROM THE APPROVED EROSION AND SEDIMENT CONTROL PLAN.
- 3. PRIOR TO THE INSTALLATION OF EROSION AND SEDIMENT CONTROL MEASURES AND AGAIN AFTER MEASURES HAVE BEEN

INSTALLED BEFORE CONSTRUCTION BEGINS, CONTRACTOR IS REQUIRED TO NOTIFY NO DEMLR RALEIGH REGIONAL OFFICE AT (919) 791-4200.

- 4. NO LAND DISTURBANCE, DEMOLITION OR CONSTRUCTION ACTIVITIES SHALL BEGIN UNTIL ALL PERIMETER EROSION AND 12. WHERE CONCRETE EQUIPMENT WASHING IS REQUIRED, THIS SEDIMENT CONTROL MEASURES, INCLUDING, BUT NOT LIMITED TO, SILT FENCING, INLET PROTECTION, TEMPORARY DIVERSIONS, AND CONSTRUCTION ENTRANCE HAVE BEEN INSTALLED AS SHOWN ON THE CONTRACT DRAWINGS. IF CLEARING IS REQUIRED FOR INSTALLATION OF A PARTICULAR MEASURE, ALL MEASURES NOT REQUIRING CLEARING SHALL BE INSTALLED FIRST. CLEARING OF THE NECESSARY LAND FOR INSTALLATION OF THE PARTICULAR MEASURE MAY THEN PROCEED.
- 5. CLEARING SHALL BE LIMITED AS MUCH AS POSSIBLE TO AREAS REQUIRED FOR CURRENT CONSTRUCTION ACTIVITIES. MASS CLEARING AND GRADING SHALL BE AVOIDED.
- 6. ALL EROSION CONTROL MEASURES SHALL BE INSPECTED WITHIN 24 HOURS FOLLOWING EVERY RAINFALL BUT IN NO CASE LESS THAN ONCE EVERY SEVEN CALENDAR DAYS.
- 7. EROSION AND SEDIMENT CONTROL MEASURES SHALL BE REPAIRED OR REPLACED IMMEDIATELY AS REQUIRED TO MAINTAIN PERFORMANCE OF MEASURE. MEASURES SHALL BE CLEANED WHEN SEDIMENT VOLUME REACHES 1/2 OF TOTAL VOLUME OF MEASURE. REMOVED SEDIMENT SHALL BE DISPOSED 15. DEDICATED AREAS FOR DEMOLITION, CONSTRUCTION, AND OF IN SUCH A MANNER AND LOCATION AS TO INSURE FURTHER SEDIMENT TRANSPORT DOES NOT OCCUR.
- 8. CONTRACTOR SHALL INITIATE STABILIZATION MEASURES AS SOON AS PRACTICABLE ON STOCKPILES AND IN PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED, BUT IN NO CASE MORE THAN 7 DAYS AFTER THE CONSTRUCTION ACTIVITY IN THAT PORTION OF THE SITE HAS TEMPORARILY OR PERMANENTLY CEASED. THIS REQUIREMENT DOES NOT APPLY IN THE FOLLOWING INSTANCES:
- A) WHERE THE INITIATION OF STABILIZATION MEASURES BY THE 7TH DAY AFTER CONSTRUCTION ACTIVITY TEMPORARILY OR PERMANENTLY CEASED IS PRECLUDED BY SNOW COVER OR FROZEN GROUND CONDITIONS, STABILIZATION MEASURES SHALL BE INITIATED AS SOON AS PRACTICABLE;
- B) WHERE CONSTRUCTION ACTIVITY ON A PORTION OF THE SITE IS TEMPORARILY CEASED, AND EARTH-DISTURBING ACTIVITIES WILL BE RESUMED WITHIN FOURTEEN (14) DAYS, TEMPORARY STABILIZATION MEASURES NEED NOT BE INITIATED ON THAT PORTION OF THE SITE.
- 8. ALL DISTURBED AREAS SHALL DRAIN TO APPROVED SEDIMENT CONTROL MEASURES AT ALL TIMES DURING LAND DISTURBANCE ACTIVITIES AND UNTIL FINAL STABILIZATION IS ACHIEVED. SEDIMENT-LADEN GROUNDWATER ENCOUNTERED DURING TRENCHING, BORING, OR OTHER ACTIVITIES SHALL BE PUMPED INTO A SEDIMENT TRAPPING DEVICE PRIOR TO BEING DISCHARGED INTO A STREAM, POND, SWALE, OR CATCH BASIN

- 9. SOIL STOCKPILE AND LAYDOWN AREAS SHALL HAVE PERIMETER SEDIMENT CONTROL MEASURES AND TEMPORARY OR PERMANENT STABILIZATION MEASURES INSTALLED AS SOON AS POSSIBLE AND AT COMPLETION OF STOCKPILING AND LAYDOWN ACTIVITIES. STOCKPILE SIDE SLOPES SHALL NOT EXCEED 3H 1V UNLESS APPROVED BY ENGINEER. TOP OF STOCKPILE SHALL BE GRADED WITH A MINIMUM 5% SLOPE TO INSURE PROPER DRAINAGE.
- 10. ALL DISTURBED AREAS, EXCEPT FOR CONCRETE AND PAVED AREAS, SHALL BE FERTILIZED, SEEDED AND MULCHED IN ACCORDANCE WITH THE SPECIFICATIONS AND THE SEEDING SCHEDULE, AND RE-SEEDED AS NECESSARY, TO ESTABLISH AND MAINTAIN A VIGOROUS, DENSE VEGETATIVE COVER.
- 11. ALL POINTS OF CONSTRUCTION INGRESS AND EGRESS SHALL BE PROTECTED TO PREVENT THE DEPOSITION OF MATERIALS ONTO TRAVERSED OFFSITE ROADWAYS. IF MATERIAL IS TRACKED ONTO OFFSITE ROADWAYS, IT SHALL BE REMOVED IMMEDIATELY. DO NOT UTILIZE A WATER HOSE TO CLEAN ROADS UNLESS THE RUNOFF IS DIRECTED TO A PROPERLY DESIGNED AND FUNCTIONING SEDIMENT CONTROL DEVICE. PROPER PRECAUTIONS SHALL BE TAKEN TO ENSURE THAT MATERIALS DEPOSITED ONTO OFFSITE ROADWAYS ARE REMOVED SO THAT THEY DO NOT ENTER YARD INLETS, CATCH BASINS, SEWERS, WETLANDS, SURFACE WATER BODIES, OR ROADSIDE SWALES.
- MUST BE DONE IN AN APPROVED "CONCRETE CONTAINMENT AREA". CONTRACTOR SHALL NOT DISCHARGE ANY CONCRETE WASHOUT WATER INTO SEWERS, SURFACE WATER BODIES OR ONTO THE GROUND. ALL WASHOUT WATER MUST BE REMOVED FROM THE SITE(S) DAILY.
- 13. EARTHEN-MATERIAL STOCKPILES MUST BE LOCATED A MINIMUM OF 50' FROM STORM DRAINS AND STREAMS UNLESS NO REASONABLE ALTERNATIVES ARE AVAILABLE.
- 14. ALL EARTHEN STOCKPILES AND SURCHARGE MOUNDS GREATER THAN 10' IN HEIGHT OR HAVING SIDE SLOPES GREATER THAN 3: MUST BE ENCAPSULATED BY A DOUBLE ROW OF SILT FENCE. THE FIRST ROW OF SILT FENCE SHALL BE SPACED NO GREATER THAN 10' FROM THE TOE OF THE MOUND,. THE SECOND ROW OF SILT FENCE SHALL BE SPACED 5' FROM THE FIRST ROW. IN THE EVENT THE SITE DOES NOT HAVE PERIMETER EROSION AND SEDIMENT CONTROLS INSTALLED, THEN DOUBLE ROW SILT FENCING IS REQUIRED REGARDLESS OF THE STOCKPILE OR SURCHARGE HEIGHT.
- OTHER WASTES MUST BE LOCATED A MINIMUM OF 50' FROM STORM DRAINS AND STREAMS UNLESS NO REASONABLE ALTERNATIVES ARE AVAILABLE.
- PAVED ROADWAYS MUST BE KEPT CLEAN AT ALL TIMES. WATER SHALL NOT BE USED TO CLEAN ROADS UNLESS THE RUNOFF IS DIRECTED TO A PROPERLY DESIGNED AND FUNCTIONING SEDIMENT CONTROL DEVICE. WATER PUMPED OUT OF THE EXCAVATED AREAS CONTAINS SEDIMENTS THAT MUST BE REMOVED PRIOR TO DISCHARGING TO RECEIVING BODIES OF WATER USING REMOVABLE PUMPING STATIONS, SUMP PITS, PORTABLE SEDIMENTATION TANKS AND/OR SILT CONTROL BAGS
- 17. ALL EROSION AND SEDIMENT CONTROL MEASURES SHALL REMAIN IN PLACE UNTIL CONSTRUCTION IS COMPLETE, PERMANENT VEGETATION IS ESTABLISHED ON ALL DISTURBED AREAS, AND LOCAL AUTHORITIES HAVE GIVEN PERMISSION FOR REMOVAL



ABBREVIATIONS EDGE OF PAVEMENT GAS LIMITS OF DISTURBANCE SS SANITARY SEWER OVERHEAD ELECTRIC WATER PROPERTY LINE FIBER OPTIC CABLE CENTER LINE LIGHT POLE ROLLED EROSION **UNDERGROUND** RECM **CONTROL MATTING** ELECTRIC POWER POLE

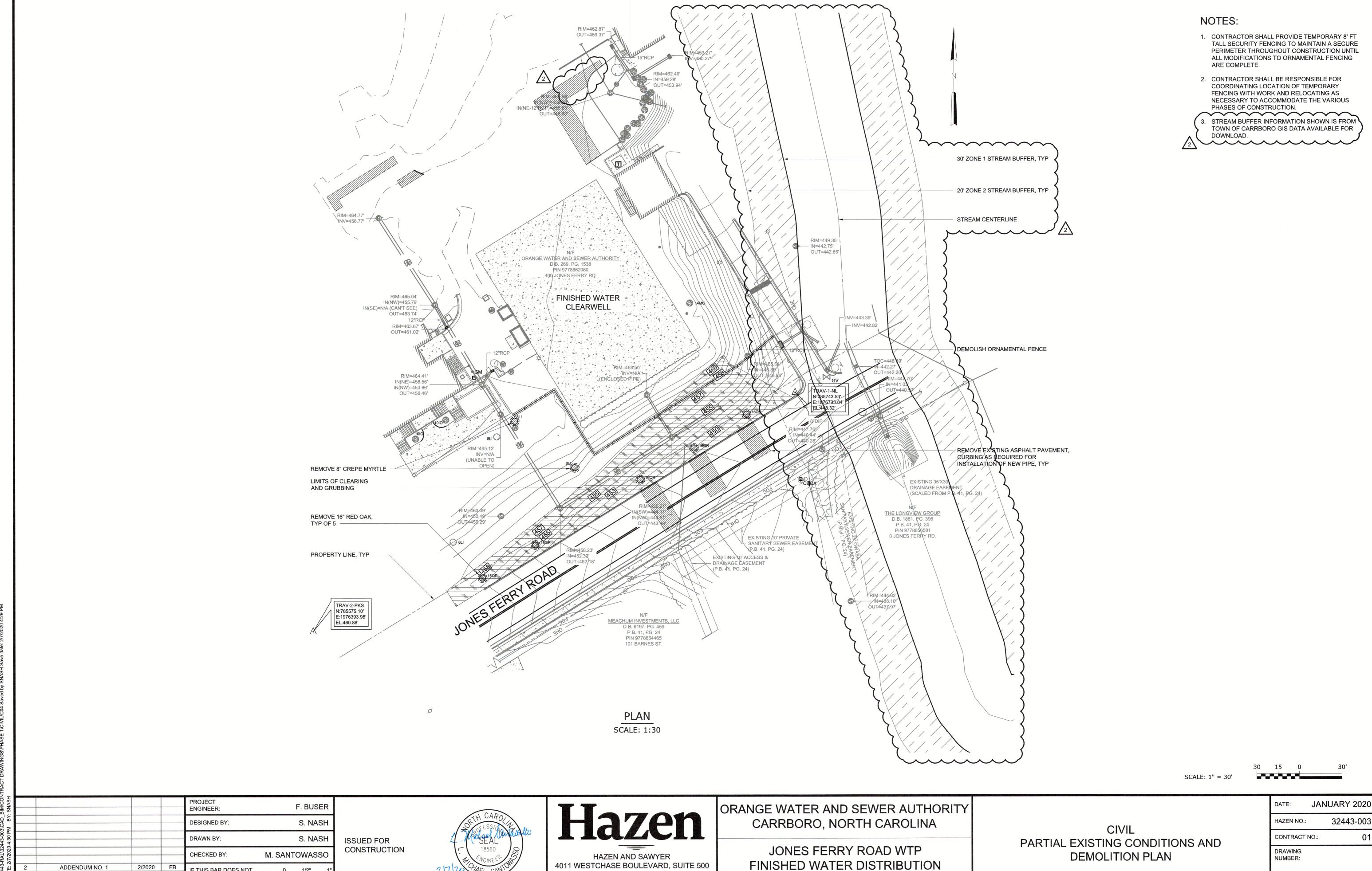
DATE:

CIVIL **GENERAL NOTES AND LEGEND**

HAZEN NO. DRAWING

32443-003 CONTRACT NO .: NUMBER: C01

JANUARY 2020



RALEIGH, NORTH CAROLINA 27607

LICENSE NO.: C-0381

RESILIENCY IMPROVEMENTS

C04

CONSTRUCTION

ISSUED FOR

1/2020

IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE

0 1/2"

