PALM BEACH COUNTY BOARD OF COUNTY COMMISSIONERS

AGENDA ITEM SUMMARY

Meeting Date:

November 16, 2021

Consent [X]
Public Hearing []

Regular []

Department:

Water Utilities Department

I. EXECUTIVE BRIEF

Motion and Title: Staff recommends motion to approve: Consultant Services Authorization (CSA) No. 4 to the Contract for Consulting/Professional Services Water Treatment and Water Resources Engineering Services (Contract) with CDM Smith Inc., (Consultant) for the Belle Glade Water Treatment Plant (BGWTP) Demolition (Project) for a not to exceed amount of \$286,495.20.

Summary: On November 17, 2020, the Board of County Commissioners approved the Palm Beach County Water Utilities Department (PBCWUD) Contract (R2020-1719) with Consultant. CSA No. 4 provides for professional consulting services relating to survey, design, permitting and bidding of improvements at the former BGWTP site, namely the demolition and restoration of the site and upgrades to water distribution piping including the South Bay master meter.

This Contract was procured under the requirements of the Equal Business Opportunity Ordinance. On September 18, 2019, the Goal Setting Committee applied an Affirmative Procurement Initiative (API) of a minimum mandatory 20% Small Business Enterprise (SBE) subcontracting goal and an evaluation preference for up to 15 points based upon the relative level of dollar participation by certified African American owned firms were the API applied to the Contract. The Contract provides for 21.00% SBE participation which includes 19.00% MBE participation, 19.00% MBE (B). CSA No. 4 includes 68.68% SBE participation, which includes 68.68% MBE participation, 68.68% MBE (B). The cumulative SBE participation including CSA No. 4 is 43.65% SBE participation, which includes 19.07% MBE participation, 19.07% MBE (B). Consultant is headquartered in Boston, Massachusetts, but maintains an office in Palm Beach County from which the majority of the work will be performed. The Project is included in the PBCWUD FY22 budget. (PBCWUD Project No. 21-051) District 6 (MJ)

Background and Justification: After construction of Water Treatment Plant No. 11 the BGWTP was decommissioned and partially demolished with two (2) of the ground storage tanks and pump station being converted into a remote storage and pump station. Shortly after the conversion to a remote storage and pump station the remaining facilities were not needed and the entire site was decommissioned. Since this time, the site has remained relatively unchanged with structures, piping, and equipment related to the remote storage and pump station remaining in place. PBCWUD has elected to complete the demolition of the site to address safety concerns related to the existing facilities and reconfigure water distribution piping within the site. The project will also make improvements to the South Bay master water meter to address existing deficiencies and plug, abandon, and demolish an existing 16-inch water main and aerial crossing over the L-14 (Hillsborough) Canal. CSA No. 4 provides for the consulting/professional services to perform surveying, subsurface utility exploration, design, permitting, and bid support services for the Project.

Attachments:

1. Two (2) Originals of Consultant Services Authorization No. 4

2. Location Map

3. Certificate of Liability Insurance

Approved By:

Approved By:

Assistant County Administrator

Date

Date

Default

Assistant County Administrator

Date

II. FISCAL IMPACT ANALYSIS

A. Five Year Summary of Fiscal Impact:

| A. Five Year | Summary of Fisc | cal Impact: | | | |
|--|--------------------------|--|---------------------|-------------|---------------|
| Fiscal Years | . 20 | 202 | 2024 | 2025 | 2026 |
| Capital Expenditu Operating Costs External Revenue Program Income In-Kind Match Co | - L | 6,496 <u>0</u> 0 <u>0</u> 0 <u>0</u> 0 <u>0</u> 0 <u>0</u> | 0 0 0 0 | 0 0 0 0 | <u> </u> |
| NET FISCAL IMP | PACT <u>\$286</u> | <u>0</u> | <u>0</u> | <u> </u> | <u>o</u> |
| # ADDITIONAL F POSITIONS (Cur | TE nulative) <u>(</u> | <u>0</u> | <u>0</u> | <u>0</u> | <u>0</u> |
| Budget Account | No.: Fund | <u>4001</u> Dept | 720 Unit 1GU | A Object | <u>4615</u> |
| Is Item Included in | Current Budget? | , | Yes_X_ | No | |
| Does this item inc | lude the use of fe | deral funds? | Yes | No X | |
| | | Reporting | Category <u>N/A</u> | | |
| B. Recomme | nded Sources of | Funds/Summa | ry of Fiscal Imp | act: | |
| One (1) tim | e expenditure fror | n user fees, cor | nnection fees and | balance bro | ught forward. |
| | it Fiscal Review: | J-K | pof- purts | he GE | |
| | II | I. <u>REVIEW COM</u> | <u>IMENTS</u> | | |
| A. OFMB Fisc | al and/or Contra | ct Developmer | it and Control C | omments: | |
| June 1 | OFMB AF 10 | on la. Bl. 21 Bendar | Contract Devel | opment and | Control |
| B. Legal Suffi | ciency: | ` | | 2, , | , , |
| Assis | stant County Attorn | 10/26/ ney | 121 | | |
| C. Other Depa | rtment Review: | | | | |

This summary is not to be used as a basis for payment.

Department Director

CONSULTANT SERVICES AUTHORIZATION NO. $\underline{04}$

Palm Beach County Water Utilities Department
Contract for Consulting/Professional Services
Water Treatment and Water Resources Engineering Services
Resolution No. R2020-1719 Contract Dated November 17, 2020

Project Title: Belle Glade Water Treatment Plant Demolition

| PBC\ | WUD F | Project No.: <u>21-051</u> |
|--------------------------------|--|---|
| Cons | sultant | : CDM Smith Inc. |
| Addr | ess: <u>(</u> | 621 NW 53 rd Street, Suite 265, Boca Raton, Florida 33487 |
| Budg | get Lin | e Item No.: 4001-720-1GUA-4615 |
| Distr | ict No. | .: <u>6</u> |
| Depa and n consu demo | rtment nake ir ultant/p olition a | Itant Services Authorization provides for: Palm Beach County Water Utilities (PBCWUD) to restore the former Belle Glade Water Treatment Plant (BGWTP) site in the master flow meter. To this end, the CONSULTANT will provide professional services related to permitting, design, and bidding services for the and disposal of existing infrastructure, and improvements to water distribution piping flow meter located at the former BGWTP site (Project). |
| | | (See ATTACHMENT A for detailed scope of services) |
| <u>19.09</u> which | <u>%</u> MBE n includ ding th | ct provides for 21.0% SBE participation which includes 19.0% M/WBE participation, E(B). This Consultant Services Authorization includes 68.68% overall participation des 68.68% M/WBE participation, 68.68% MBE(B). The cumulative SBE participation, is authorization is 43.65% which includes 19.07% M/WBE participation, 19.07% |
| 1. | Servic | es completed by the Consultant to date : |
| | See A | ITACHMENT B. |
| 2. | Consu | Iltant shall begin work upon receipt of Notice to Proceed correspondence. |
| 3. | The co | ompensation to be paid to the Consultant for providing the requested services shall |
| | A. | Computation of time charges plus expenses, not to exceed \$286,495.20 |
| | B. | Fixed price of \$0 |
| | C. | Total \$286,495.20 |
| 4. | event for all | Authorization may be terminated by the County without cause or prior notice. In the of termination not the fault of the Consultant, the Consultant shall be compensated services performed through the date of termination, together with reimbursable ses (if applicable) then due. |

CONSULTANT SERVICES AUTHORIZATION NO. 04

Palm Beach County Water Utilities Department
Contract for Consulting/Professional Services
Water Treatment and Water Resources Engineering Services
Resolution No. R2020-1719 Contract Dated November 17, 2020

Project Title: Belle Glade Water Treatment Plant Demolition

PBCWUD Project No.: 21-051

- 5. SBE participation is included in **ATTACHMENT C** under this Authorization. The attached Schedule 1 defines the SBE applied to this Authorization and Schedule 2 establishes the SBE contribution from each Sub-Consultant (Letter of Intent).
- This Authorization does not amend, change, or modify the Contract dated <u>November 17, 2020</u>, which remains in full force and effect.
- 7. All Attachments to this Authorization are incorporated herein and made a part of this Consultant Services Authorization.

CONSULTANT SERVICES AUTHORIZATION NO. 04

Palm Beach County Water Utilities Department
Contract for Consulting/Professional Services
Water Treatment and Water Resources Engineering Services
Resolution No. R2020-1719 Contract Dated November 17, 2020

Project Title: Belle Glade Water Treatment Plant Demolition

PBCWUD Project No.: 21-051

IN WITNESS WHEREOF, this Authorization is accepted, subject to the terms, conditions and obligations of the aforementioned Contract.

PALM BEACH COUNTY, A POLITICAL SUBDIVISION OF THE STATE OF FLORIDA

| | DEDIVISION OF THE STATE OF FLORIDA |
|---|---|
| Joseph Abruzzo, Clerk of the Circuit Court & Comptroller, Palm Beach County | Palm Beach County, Board of County Commissioners |
| ATTEST: | |
| Signed: | Signed: |
| | CI. Mayor A13 |
| Typed Name: | <u> </u> |
| Deputy Clerk | (Date) |
| Approved as to Form and Legal Sufficiency | CONSULTANT: CDM Smith Inc. |
| Signed: | (Signature) |
| Typed Name: <u>Michael W. Jones</u> County Attorney | Suzanne E. Mechler, PE, BCEE, Associate (Name and Title) |
| | 10/05/2021 |
| STATE OF FLORIDA COUNTY OF COUNTY OF | (Date) |
| The foregoing instrument was acknowledged be | efore me by means of Dphysical presence or □ online notarization, |
| this $\frac{5}{2}$ day of $\frac{1}{2}$, by | $\sqrt{1 + 1 \ln r}$ |
| known to me or has produced | as identification |
| JO ANN HARX NV COMMISSION (1 20 28 (85) | (Signature of Notary Public - State of Florida) |
| Brokes December 17, 2022 Broket day hours a clock layation (Pri | int, Type, or Stamp Commissioned Name of Notary Public) |



CERTIFICATE

I, Paul T. Milligan, Secretary/Clerk of CDM Smith Inc., a Massachusetts corporation, do hereby certify that Suzanne E. Mechler, PE, BCEE and Associate holds the position of Client Service Leader, which entitles Ms. Mechler to execute and deliver proposals, contracts and agreements for the performance of professional services in the name and on behalf of CDM Smith Inc. with a value of up to \$1 million. Further, Ms. Mechler has authority to execute and deliver proposals, contracts, agreements and amendments and has been delegated authority up to \$3 million specifically for the performance of professional services for Palm Beach County Water Utilities Department (PBCWUD) Water Treatment and Water Resources Engineering Services.

I further certify that the foregoing is consistent with the Contract Signing Authority Policy and with the By-laws of the said corporation.

IN WITNESS WHEREOF, I have executed this certificate and have caused the corporate seal of CDM Smith Inc. to be hereunder affixed on this 5th day of February 2020.



Paul T. Milligan

Secretary/Clerk of the Corporation

CONSULTANT SERVICES AUTHORIZATION NO. 04

Palm Beach County Water Utilities Department
Contract for Consulting/Professional Services
Water Treatment and Water Resources Engineering Services
Resolution No. R2020-1719 Contract Dated November 17, 2020

LIST OF ATTACHMENTS

ATTACHMENT A

Scope of Services

ATTACHMENT B

Summary and Status of Consultant Services Authorizations

ATTACHMENT C

OEBO Schedules 1 and 2

ATTACHMENT D

Project Schedule

ATTACHMENT E

Budget Summary

ATTACHMENT F

Summary of SBE-M/WBE Business Tracking

ATTACHMENT G

Location Map

ATTACHMENT A

SCOPE OF SERVICES

PBCWUD Project No: 21-051

Project Title: Belle Glade Water Treatment Plant Demolition

CONSULTANT shall perform:

PROJECT BACKGROUND

Palm Beach County (COUNTY) entered into an agreement entitled Consulting/Professional Services Water Treatment and Water Resources Engineering Services (R2020-1719) (CONTRACT), with CDM Smith Inc., (CONSULTANT) to provide engineering services in support of its water treatment plants and water resources. This Consultant Service Authorization (CSA) No. 04 will be performed under that CONTRACT.

Palm Beach County Water Utilities Department (PBCWUD) has retained CONSULTANT to provide consultant/professional services related to permitting, design and bidding services for the:

- (i) demolition and disposal of existing infrastructure on the former Belle Glade Water Treatment Plant (BGWTP) site
- (ii) restoration of the former BGWTP site
- (iii) improvements to water distribution piping on and around the former BGWTP site
- (iv) improvements to the South Bay master flow meter

The former BGWTP consists of the following structures, facilities, conduit, and piping to be demolished and disposed of as part of the Project:

- Rectangular ground storage water tanks No. 1 and No. 2
- Booster pump station No. 1: An electrical/pump building containing the following items:
 - Electrical panels (interior and exterior)
 - o Four (4) pumps and motors
 - o Piping and valving installed with each pump
 - o Various chemical containers (such as Kochkleen P-02)
 - \circ Piping and Bermad pressure sustaining valves
 - o One (1) manual crane system
 - o One (1) diesel generator, insulated muffler and monitoring system
 - Jaegar plastic packing
- One (1) Florida Power & Light Company (FPL) transformer on a concrete pad
- One (1) aboveground diesel storage tank on a concrete pad
- One (1) concrete antenna pole
- Remnants of paved access roads
- Aboveground piping and valves
- Below ground piping and valves
- Below ground conduits

• Miscellaneous debris (for example, concrete vaults, stormwater catch basins, metals, and vegetative soil mounds)

The water distribution master flow meter and piping improvements are as follows:

- Replacement of the existing inline Sensus flowmeter with a new flow meter
- Replacement of limit switch, solenoid switch, and instrumentation tubing on the existing pressure sustaining valve to automate the remote control of the pressure sustaining valve
- Addition of two (2) pressure transmitters upstream and downstream of the pressure sustaining valve
- Addition of concrete pad and fencing for the master flow meter and remote telemetry unit (RTU)
- Addition of a new radio antenna pole, new radio antenna and concrete pad for radio panel supports (CONSULTANT to coordinate with COUNTY's radio customer service center) The height of the antenna will be determined via a radio path survey
- Addition of PBCWUD standard RTU system that communicates with PBCWUD's Water Treatment Plant No. 11 (WTP11)
- Provide a permanent power connection for the RTU and flow meter installation. The CONSULTANT will be responsible for coordination with FPL
- Simplify/consolidate interconnecting the 20-inch and 14-inch diameter water mains north to south within the property, and 12-inch and 8-inch diameter water mains along the north side of the property adjacent to West Canal Street South such that each pipe flow is metered at one location
- Modify the Northwest Avenue D right-of-way water distribution piping with a 6-inch to 16-inch and 16-inch to 24-inch diameter pipe connections west of the flow meter
- The existing 16-inch diameter airport/mill water main along West Canal Street South and West
 Canal Street North will be grout filled and abandoned in place. The existing 16-inch diameter
 airport/mill water main aerial crossing over the L-14 Canal will be removed. The existing 16-inch
 diameter airport/mill water main along Northwest Avenue D will be removed
- Provide a legal sketch and description for a new easement

TASK 1 – PROJECT AND SUBCONSULTANT MANAGEMENT

Subtask 1.1 Project Management

Project management includes activities related to initiating, planning, executing, controlling, and closing the Project. Quality Management includes maintaining a Quality Management System (QMS) on each project. The CONSULTANT will perform a technical review of deliverables, in accordance with QMS, prior to transmitting them to the PBCWUD. Under this Task, the CONSULTANT will be responsible for overall coordination and oversight of the project execution. The CONSULTANT will enroll project financials upon receiving the Notice to Proceed. The CONSULTANT will invoice monthly.

Deliverable:

a) Monthly invoice (application for payment) with project status report

Subtask 1.2 Subconsultant Management

The CONSULTANT will administer and manage each of the subconsultants and coordinate the actions required to implement the Project's activities and tasks. The CONSULTANT will execute agreements with each of the three (3) subconsultants that will include similar flow down terms and conditions as in the CONTRACT including compliance with insurance requirements set by the PBCWUD. CONSULTANT will review and process payment to the subconsultants in a timely fashion. The CONSULTANT will coordinate the work of the various subconsultants in the field to minimize delays and interruptions in the work area. The CONSULTANT will coordinate the work of the various technical professional subconsultants and review the work products to meet the requirements of the PBCWUD. The CONSULTANT will confirm that the various subconsultants have a quality management system for their deliverables and will expect each subconsultant to abide by their corresponding internal quality management system requirements. The CONSULTANT will hold periodic, progress status coordination calls with subconsultants to assist in maintaining project schedules. If appropriate, the CONSULTANT will maintain an internal action items list for following up with the various subconsultants and team members.

Deliverable:

a) COUNTY Schedule 4 form with each monthly invoice for each subconsultant

TASK 2 – PREPARARTION OF DEMOLITION AND DESIGN DRAWINGS AND SPECIFICATIONS

Subtask 2.1 Data Collection

Review record drawings for the structures, facilities, conduit and piping, and water distribution flow meter and piping at the former BGWTP.

Deliverable:

a) List of the record drawings the CONSULTANT references to advance the design

Subtask 2.2 Preparation of Drawings and Specifications

Subtask 2.2.1 Site Survey

The CONSULTANT will prepare a site survey to establish horizontal and vertical controls, existing boundary corners ties and monuments. The CONSULTANT will prepare topographic and tree survey within the confined area between the three (3) structures to be demolished. The CONSULTANT will survey accessible pipe inverts elevations leading out of sanitary and storm structures. The CONSULTANT

will survey underground utilities around the existing flow meter. The CONSULTANT will provide soft digs and survey of fittings along the 20-inch diameter water main and the 14-inch diameter water main within the property and along the north side of the property adjacent to West Canal Street South. If necessary, the CONSULTANT will prepare a parcel sketch and legal description; therefore, for the PBCWUD can use them in obtaining utility easements for the proposed flow meter and distribution piping improvements. The survey will be used as the base drawing for removal and disposal design, and water distribution improvements design.

The CONSULTANT will prepare a topographic survey of the right-of-way along the path of the existing 16-inch diameter airport/mill water main with aerial crossing over the L-14 Canal. The CONSULTANT will prepare a topographic survey of the Northwest Avenue D right-of-way along the path of the existing 16-inch diameter airport/mill water main. The existing 16-inch diameter airport/mill water main along West Canal Street South and West Canal Street North will be grout filled and abandoned in place. The existing 16-inch diameter airport/mill water main aerial crossing over the L-14 Canal will be removed. The existing 16-inch diameter airport/mill water main along Northwest Avenue D will be removed.

Deliverables:

- a) Survey drawing(s)
- b) Legal sketch and description for PBCWUD to obtain easements

Subtask 2.2.2 Site Civil

The CONSULTANT will prepare demolition drawings and descriptive specifications for the removal and disposal of below and aboveground structures and foundations, removal and disposal of below and aboveground conduit and piping, and removal and disposal of miscellaneous site debris. The specification will include requirements for the Contractor to re-register the aboveground diesel storage tank and then complete the Closure Integrity Evaluation Report Form for ASTs 62-762.901(7) (Closure Integrity Report) via specifications. The specifications will also include requirements for the Contractor to render the aboveground diesel storage tank free of regulated substances. CONSULTANT will provide structural design for fencing around the new flow meter area and the concrete equipment pad within the new fencing area. The CONSULTANT will provide civil design for the flow meter and interconnecting the 24-inch, 16-inch, 12-inch, and 6-inch diameter water mains along the south side of the property adjacent to Northwest Avenue D. CONSULTANT will provide civil design to simplify/consolidate interconnecting the 20-inch and 14-inch diameter water mains north to south within the property, and 12-inch and 8-inch diameter water mains along the north side of the property adjacent to West Canal Street South such that each pipe flow is metered at one (1) location. An asphalt driveway will connect the flow meter's fenced area to the existing site access apron.

The CONSULTANT will prepare demolition drawings and descriptive specifications for the removal of the existing 16-inch diameter water main aerial crossing over the L-14 Canal. The CONSULTANT will prepare demolition drawings and descriptive specifications for the existing 16-inch diameter airport/mill water main along West Canal Street South and West Canal Street North to be grout filled and abandoned in place. CONSULTANT will prepare demolition drawings and descriptive specifications for the existing 16-inch diameter airport/mill water main along Northwest Avenue D to be removed.

Deliverables:

a) Preliminary water main routing drawings for civil scope

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Revised 04/26/2021

- b) Design development demolition drawings and specifications for civil scope
- c) Design development design review minutes for civil scope
- d) Ninety (90) percent design drawings and specifications for civil scope
- e) Ninety (90) percent design review minutes for civil scope
- f) One hundred (100) percent design drawings and specifications for civil scope

Subtask 2.2.3 Site Electrical

The CONSULTANT will provide structural design for a new radio antenna pole and RTU mounting supports. The CONSULTANT will provide the electrical and instrumentation design for a new RTU system, new flowmeter with grounding rings, new field instrumentation, and new FPL direct power connected to the flowmeter/RTU installation. The CONSULTANT will provide demolition plans and descriptive specifications for the removal and disposal of electrical conduit, wire, panels, lighting, antenna, FPL transformer, pad, motor, and backup power generator system.

The CONSULTANT will prepare ninety (90) percent design drawings and technical specifications for the removal and disposal design, and water distribution improvements design package. The CONSULTANT will incorporate agreed upon review comments into the one hundred (100) percent drawings and specifications documents.

The CONSULTANT will provide electronic copies of deliverables in portable document format (PDF).

Deliverables:

- a) Design development demolition drawings and specifications for electrical scope
- b) Design development design review minutes for electrical scope
- c) Ninety (90) percent design drawings and specifications for electrical scope
- d) Ninety (90) percent design review minutes for electrical scope
- e) One hundred (100) percent design drawings and specifications for electrical scope

Subtask 2.3 Quality Review

The CONSULTANT's Project Manager will be the primary point of contact and will lead the project execution during the project execution, focusing on quality completion of the project tasks on schedule and budget. The CONSULTANT will technically review the conceptual survey drawing (the ten (10) percent phase). The CONSULTANT will technically review the preliminary water main routing drawing (the thirty (30) percent phase). The CONSULTANT will technically review the design development demolition drawings (the sixty (60) percent phase). The CONSULTANT will inter-discipline review the ninety (90) percent drawings and specification. The CONSULTANT will intra-discipline review the one hundred (100) percent drawings and specifications.

The CONSULTANT will provide electronic copies of deliverables in PDF.

<u>Deliverables:</u>

- a) Quality reviewed Conceptual survey drawings
- b) Quality reviewed Preliminary water main routing drawings with Class 5 Opinion of Probable Construction Costs (OPCC) from subtask 2.3
- c) Quality reviewed Design Development demolition drawings and specifications with Class 5 OPCC from subtask 2.3

- d) Quality reviewed ninety (90) percent design drawings and specifications with Class 4 OPCC from subtask 2.3
- e) Ninety (90) percent design review minutes
- f) Quality reviewed one hundred (100) percent design drawings and specifications with Class 3 OPCC from subtask 2.3

Subtask 2.4 Opinion of Probable Construction Costs

The CONSULTANT will prepare and provide an OPCC based on the preliminary, design development, and ninety (90) percent design documents. OPCCs shall be developed in accordance with the Association for the Advancement of Cost Engineering (AACE) International Recommended Practice No. 18R-97.

The CONSULTANT will provide electronic copies of deliverables in PDF.

Deliverables:

- a) Class 5 Opinion of OPCC for the Preliminary water main routing drawings
- b) Class 5 OPCC based on the Design Development demolition drawings
- c) Class 4 OPCC based on the ninety (90) percent design drawings
- d) Class 3 OPCC based on the one hundred (100) percent design drawings

TASK 3 – PERMITTING ASSISTANCE

The CONSULTANT will prepare the Application for Notification for Use of General Permit for Constructions of an Extension to a Public Drinking Water Distribution System (Florida Department of Environmental Protection (FDEP) form 62.555.900(7)) for new or altered water mains. A draft application package will be submitted to PBCWUD with the ninety (90) percent deliverable set for review and comments. A formal application package will be submitted to FDEP after the one hundred (100) percent deliverable review comments are incorporated into the design drawings.

The CONSULTANT will prepare the Utility Application with Florida Department of Transportation (FDOT) to grout the existing 16-inch diameter airport/mill water main along West Canal Street South and West Canal Street North (State Road 880).

The CONSULTANT will prepare a right-of-way Permit Application with South Florida Water Management District (SFWMD) for the removal of the existing 16-inch diameter water main aerial canal crossing over the L-14 Canal.

The CONSULTANT will prepare a permit with the City of Belle Glade to remove the existing 16-inch diameter airport/mill water main along the Northwest Avenue D right-of-way and the flow meter installation.

The CONSULTANT will provide electronic copies of deliverables in PDF.

<u>Deliverables:</u>

- a) Draft Permit Applications with ninety (90) percent design deliverable
- b) Permit Applications with one hundred (100) percent design drawings

TASK 4 – BIDDING ASSISTANCE

The CONSULTANT will revise the one hundred (100) percent design documents with permitting comments and prepare the Bid Set bidding documents (drawings and technical specifications). The CONSULTANT will deliver electronic copies of the Bid Set bidding documents to post on the COUNTY's web site. The CONSULTANT will attend the pre-bid meeting and attend a pre-bid site visit. The CONSULTANT will prepare responses to written technical questions from bidders and issue revisions to drawings and technical specifications for addenda. The CONSULTANT will assist in determining the lowest, responsive bidder and make a recommendation to the PBCWUD on award of the contract. The CONSULTANT will conform the drawings and technical specifications after award to a bidder.

The CONSULTANT will provide electronic copies of deliverables in PDF.

Deliverables:

- a) Bid set of completed construction documents (one hundred (100) percent documents with permit comments and purchasing comments, drawing and technical specifications)
- b) Pre-Bid meeting notes
- c) Recommendation of Award Letter
- d) Responses to bidder questions
- e) Revised drawings and technical specifications for addenda

DATA OR ASSISTANCE TO BE PROVIDED BY THE COUNTY

- Provide a copy of facilities and underground utilities record drawings
- Provide a copy of the three-structures lead-based paint, asbestos, and polychlorinated Biphenyls (PBC) survey report prior to the ninety (90) percent design submittal
- Provide a draft copy of front-end documents
- Obtain utility easement using the CONSULTANT provided legal sketch and description
- Pay permitting application fees

ASSUMPTIONS

- At the time of developing the proposal for this Project, meetings are anticipated to be held face to face under social distancing guidelines and other COUNTY, or CONSULTANT, mandated precautions, as allowable under COUNTY rules and CONSULTANT's Health and Safety policy in effect at the time of the actual meetings. Virtual options for the meetings and attendees will be made available
- A separate Consultant Services Authorization will be issued to support with the continuing effort to support the construction phase services
- A separate Consultant Services Authorization will be issued to support with environmental site assessment, or monitoring well closure, or site development review and building department permitting, or Landscape Architect
- Building permit documentation beyond that utilized to develop these drawings and specifications is not included in this scope of work

| Page | 7 | of | 7 |
|------|---|----|---|
|------|---|----|---|

PRELIMINARY

LIST OF DRAWINGS

WUD Project No: 21-051

Project Title: Belle Glade Water Treatment Plant Demolition

| Sheet No. | Count | Description |
|------------------------------------|-------|---|
| G-0, 1, 2 | 3 | Title Sheet, Drawing List, General Notes |
| V-1, 2, 3 | 6 | Topographic Survey |
| C-1, 2, 3, 4 | 10 | Proposed Site Plan – Key Plan, Sheet 1, Sheet 2, Staging Area |
| C-5, 6, 7 | 13 | Proposed Paving and Grading and Drainage – Key Plan, Sheet 1, Sheet 2 |
| C-8, 9, 10 | 16 | Demolition Site Plan – Key Plan, Sheet 1, Sheet2 |
| C-11, 12, 13, 14, 15, 16, 17 | 23 | Demolition of Existing 16" Water Main to Canal Crossing Plan & Profile – Sheet 1 to 7 |
| C-18, 19 | 25 | Demolition Details and Sections – Sheet 1, Sheet 2 |
| C-20, 21, 22, 23 | 29 | Civil Standard Details – Sheet 1, Sheet 2, Sheet 3, Sheet 4 |
| M-1, 2 | 31 | Distribution Piping – Existing Plan, Existing Section |
| M-3, 4 | 33 | Distribution Piping – Demolition Plan, Demolition Section |
| M-5, 6 | 35 | Distribution Piping – Proposed Plan, Proposed Section |
| M-7, 8 | 37 | Mechanical Standard Details – Sheet 1, Sheet 2 |
| S-1 | 38 | General Notes and Abbreviations, Symbols |
| S-2 | 39 | Distribution Piping Slab Modifications – Plan & Sections |
| S-3 | 40 | Antenna Pole Foundation – Plan, Section and Details |
| S-4 | 41 | Structural Standard Details – Sheet 1 |
| S-5 | 42 | Structural Standard Details – Sheet 2 |
| E-1 | 43 | Electrical Symbols and Abbreviations I |
| E-2 | 44 | Electrical Symbols and Abbreviations II |
| E-3 | 45 | Demolition and Modification Site Plan |
| E-4 | 46 | Electrical Riser Diagrams |

| E-5 | 47 | Flow Meter Control Panel and Elementary Control Diagrams |
|-----|----|--|
| E-6 | 48 | Flow Meter Electrical Modification Plan |
| E-7 | 49 | Electrical Details |
| I-1 | 50 | Instrumentation Legend |
| 1-2 | 51 | Block Diagram Instrumentation |
| I-3 | 52 | Process and Instrumentation Diagram |
| I-4 | 53 | Instrumentation Details |

ATTACHMENT B

SUMMARY AND STATUS OF CONSULTANT SERVICES AUTHORIZATIONS

| Auth. No. | PBCWUD Project No. | Title | Status | Project Total Amount | SBE Total Amount | SBE Participation % | Ap _l By | proved Date |
|---|--------------------|---|-------------|-------------------------|---------------------|------------------------|-----------------------|----------------|
| 1 | 21-015 | Consumptive Use Permit Renewal Support | Approved | \$82,364.00 | \$35,396.00 | 42.97 | CRC | 1/13/21 |
| 1.1 21-015 Consumptive Use Permit Renewal Support | | Approved | \$49,773.30 | \$31,444.80 | 63.17% | DIR | 5/27/21 | |
| 2 | Renewal Support | | Approved | \$98,733.00 | \$0.00 | 0.00% | CRC | 6/2/2021 |
| 3 | | 3 and 9 Degasifier and Odor Control Systems | Approved | \$99,243.00 | \$0.00 | 0.00% | CRC | 5/26/21 |
| 4 | 21-051 | Belle Glade Water Treatment Plant Demolition | Pending | \$286,495.20 | \$196,785.20 | 68.68% | ВСС | pending |
| 5 | 21-049 | Water Treatment Plant 11 Clearwell Recoating Evaluation | Approved | \$97,752.00 | \$0.00 | 0.00% | CRC | 6/2/21 |
| 6 | 21-015 | Consumptive Use Permit Renewal Support | Approved | \$317,536.60 | \$186,841.60 | 58.84% | ВСС | 6/15/21 |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |

ATTACHMENT C

OEBO SCHEDULE 1

Office of Equal Business Opportunity Compliance Programs

OEBO SCHEDULE 1

LIST OF PROPOSED CONTRACTOR/CONSULTANT AND SUBCONTRACTOR/SUBCONSULTANT PARTICIPATION

| SOLICITATION/PROJECT/BID NAME: Belle GI | ade Water 7 | Freatment Plant Dem | nolition | SOLICITA | TION/PROJECT/B | ID No.: PBCWUD | Project No. 21-051 | | | | |
|--|---------------|---|--|--|-------------------------------------|--|--|---------------------------|--|--|--|
| NAME OF PRIME RESPONDENT/BIDDER: CD | M Smith Inc | ·. | | ADDRESS | 621 NW 53rd Str | et, Suite 265, Boca | Raton, FL 33487 | | | | |
| CONTACT PERSON: Suzanne E. Mechler, PE, B | CEE | | | PHONE N | O.: 561.571.3800 | | mechlerse@cdmsmith.com E-MAIL: | | | | |
| SOLICITATION OPENING/SUBMITTAL DATE: | December | 23, 2020 | | | | County Water Utilitie | es Department | | | | |
| PLEASE LIST THE DOLLAR AMOUNT OF PLEASE ALSO LIST THE DOLLAR AMOUNT OF PROJECT. | R PERCE | NTAGE OF WO | ORK TO BE O | COMPLETED BY TI | HE <u>PRIME CON</u> BY ALL SUBCO | TRACTOR/COLONTRACTORS/ | NSULTANT ON SUBCONSULT | THIS PROJECT. | | | |
| | (Che | ck all Applicable Cate | gories) | | | | | | | | |
| | Non-SBE | M/WBE | SBE | | DOLLAR AMO | UNT OR PERCENTA | AGE OF WORK | | | | |
| Name, Address and Phone Number | | Minority/Women Business | Small Business | Black | Hispanic | Women | Caucasian | Other (Please Specify) | | | |
| 1. CDM Smith Inc. 621 NW 53rd Street, Suite 265 Boca Raton, FL 33487 | ✓ | nn cean i rich at asseme di Primer and Primer de Primer | Ou University of the State of t | ration in the Production (and the Control of the Co | | Fradition of TYTA Miller field Phriddick Shimmeleasement of the Staff Shim | an an an American ann an Amhra an Amhr | \$84,960.00 | | | |
| Brown & Phillips, Inc. 1860 Old Okeechobee Road, Suite 509 West Palm Beach, FL 33409 | | ✓ | ✓ | \$26,448.56 | | | | | | | |
| 3. C Solutions, Inc. 4152 West Blue Heron, Suite 225 Riviera Beach, FL 33404 | | ✓ | ✓ | \$144,646.64 | | | | | | | |
| 4. Engineered Design Services LLC 560 Village Boulevard, Suite 260 West Palm Beach, FL 33409 | | ✓ | V | \$25,690.00 | | | | | | | |
| 5. Advantage Communications, Inc. 515 South Highlands Drive Hollywood, Fl, 33021 | V | | | - | | | | \$4,750.00 | | | |
| (Please use additional sheets if necessary) | | | Total | \$196,785.20 | | | | \$89,710.00 | | | |
| Total Bid Price \$\$286,495.20 | | , | Total SB | E - M/WBE Participation _ | 68.68% | | | | | | |
| I hereby certify that the above information is accurate | to the best o | f my knowledge: | 2 (| huh | | | Suzanne E. Me | echler, Associate | | | |
| | |) | 0 | Signature | | | | Title | | | |

Note:

- 1. The amount listed on this form for a Subcontractor/subconsultant must be supported by price or percentage listed on the properly executed Schedule 2 or attached signed proposal.
- 2. Firms may be certified by Palm Beach County as an SBE and/or an M/WBE. If firms are certified as both an SBE and/or M/WBE, please indicate the dollar amount under the appropriate category.
- 3. Modification of this form is not permitted and will be rejected upon submittal.

ATTACHMENT C

OEBO SCHEDULE 2

Office of Equal Business Opportunity Compliance Programs

Revised 04/26/2021

| both pa | eted Schedule 2 is a binding document between the F and should be treated as such. The Schedule 2 shale rties recognize this Schedule as a binding documents ractors/subconsultants, must properly execute this do proposal. | <u>l contain bol</u> ument. All | ded language Subcontracto | indicating that by s | igning the Schedule 2, |
|--------------|--|---------------------------------------|-------------------------------------|--|--------------------------|
| SOLICITA | TION/PROJECT NUMBER: PBCWUD Project N | o. 21-051 | | | |
| SOLICITA | TION/PROJECT NAME: Belle Glade Water Treatmer | nt Plant Dem | olition | | |
| | ox(s) that apply) | Subco | ontractor: C | Solutions, Inc. | |
| | | Pate of Palm B | each County (| Certification (if applic | cable): |
| The unde | ersigned affirms they are the following (select one from <u>Column 2</u> | n each column | if applicable |): | Column 3 |
| ☑Male [| □ Female □ African-American/Black □ □ Hispanic American □ |]Asian Amerio]Native Amer | | asian American | □Supplier |
| to be perf | PARTICIPATION – S/M/WBE Primes must document all work executed Schedule 2 for any S/M/WBE participation may result or made and or percontents supplied with the dollar amount and/or percontents is certified. A detailed proposal may be attached | ult in that partic entage for each | cipation not bei 1 work item, S/ | ng counted. Specify in M/WBE credit will only | detail the scope of work |
| Line Item | Item Description | Unit Price | Quantity/ Units | Contingencies/ Allowances | Total Price/Percentage |
| 8.04 | Mechanical Engineering - Water Distribution Systems | | | | \$144,646.64 |
| | | | | | |
| | | | | | |
| | | | | - | |
| | | | | | |
| The under | signed Subcontractor/subconsultant is prepared to self-perfo pwing total price or percentage: \$144,646.64 | orm the above- | described work | in conjunction with the | e aforementioned project |
| If the unde | ersigned intends to subcontract any portion of this work to elow accompanied by a separate properly executed Schedu | another Subco le 2. | ntractor/subco | nsultant, please list th | ne business name and the |
| | /A me of 2 nd /3 rd tier Subcontractor/subconsultant | Price o | r Percentage: _ | N/A | |
| _ | CDM Smith Inc. | C S | olutions, li | nc. | |
| | Print Name of Prime | Print N By: | lame of Subcon | tractor/subconsultant | |
| (| Authorized Signature Suzanne E. Mechler, PE, BCEE | | Au Drummond, Pl | uthorized Signature E, BCEE | |
| | Print Name | Print ! | Vame | | |
| _ | Associate | Pres | sident | | |
| | Title | Title | | | |
| i | _{Date:} July 27, 2021 | Date: | July 27, 20 | 021 | |
| | | | | | |

Revised 09/17/2019

| both pa | eted Schedule 2 is a binding document between the P and should be treated as such. The Schedule 2 shall arties recognize this Schedule as a binding documents/subconsultants, must properly execute this documents. | contain bold | ied language Subcontracto | indicating that by singlessing in the single | igning the Schedule 2, |
|--------------|--|----------------------------------|-------------------------------------|--|---------------------------|
| SOLICITA | TION/PROJECT NUMBER: PBCWUD Project No | o. 21-051 | | | |
| SOLICITA | TION/PROJECT NAME: Belle Glade Water Treatment | t Plant Dem | olition | | |
| | ontractor: CDM Smith Inc. | Subco | ontractor: En | gineered Desig | gn Services LLC |
| | ox(s) that apply) ☐ WBE ☐ MBE ☐ M/WBE ☐ Non-S/M/WBE D | ate of Palm B | each County C | ertification (if applic | able): |
| The unde | ersigned affirms they are the following (select one from <u>Column 2</u> | each columr | if applicable) | : | Column 3 |
| ☑Male [| ☐ Female ☐ African-American/Black ☐ ☐ Hispanic American ☐ | lAsian Amerio Native Amer | | asian American | □Supplier |
| to be perf | E PARTICIPATION – S/M/WBE Primes must document all wor executed Schedule 2 for any S/M/WBE participation may resu formed or items supplied with the dollar amount and/or perce S/M/WBE is certified. A detailed proposal may be attached to | It in that particentage for each | cipation not bein work item. S/I | ng counted. Specify in M/WBE credit will only | detail, the scope of work |
| Line Item | Item Description | Unit Price | Quantity/ Units | Contingencies/ Allowances | Total Price/Percentage |
| 9.03 | Electrical Engineering | | | | 30,440.00 |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| at the foll | rsigned Subcontractor/subconsultant is prepared to self-perfo owing total price or percentage: \$25,690.00 | | | | |
| If the und | ersigned intends to subcontract any portion of this work to a elow accompanied by a separate properly executed Schedul | another Subco | ntractor/subco | nsultant, please list th | ne business name and the |
| | | e 2. | | | |
| | dvantage Communications, Inc. | Price o | r Percentage: _ | \$4,750.00 | |
| Na | ame of 2 nd /3 rd tier Subcontractor/subconsultant | | | | |
| | CDM Smith Inc. | Eng | ineered D | esign Services | LLC |
| | Print Name of Prime | | | tractor/subconsultant | |
| / | Ву: | Bv: | | | |
| (| Authorized Signature Suzanpe E. Mechler, PE, BCEE | , | ` . | t) orized Signature | |
| | Print Name | Craig Print | McKenzie, PE | | |
| | Associate | | horized Me | ember | |
| | Title | Title | | | |
| | Date: October 1, 2021 | | October | 1, 2021 | |
| | | | | Dov | isad 00/17/2010 |

Revised 09/17/2019

A completed Schedule 2 is a binding document between the Prime Contractor/consultant and a Subcontractor/subconsultant (for any tier) and should be treated as such. The Schedule 2 shall contain bolded language indicating that by signing the Schedule 2, both parties recognize this Schedule as a binding document. All Subcontractors/subconsultants, including any tiered

Subcontractors/subconsultants, must properly execute this document. Each properly executed Schedule 2 must be submitted with the bid/proposal. SOLICITATION/PROJECT NUMBER: PBCWUD Project No. 21-051 SOLICITATION/PROJECT NAME: Belle Glade Water Treatment Plant Demolition Prime Contractor: Engineered Design Services LLC Advantage Communications, Inc. Subcontractor: (Check box(s) that apply) Date of Palm Beach County Certification (if applicable): N/A□SBE □WBE □MBE □M/WBE □Non-S/M/WBE The undersigned affirms they are the following (select one from each column if applicable): Column 1 Column 3 ☑Male ☐ Female ☐ African-American/Black ☐ Asian American ☐ Caucasian American □Supplier ☐ Hispanic American ☐Native American S/M/WBE PARTICIPATION - S/M/WBE Primes must document all work to be performed by their own work force on this form. Failure to submit a properly executed Schedule 2 for any S/M/WBE participation may result in that participation not being counted. Specify in detail, the scope of work to be performed or items supplied with the dollar amount and/or percentage for each work item. S/M/WBE credit will only be given for the areas in which the S/M/WBE is certified. A detailed proposal may be attached to a properly executed Schedule 2. Line Item Description **Unit Price** Quantity/ Contingencies/ Total Price/Percentage Item Units Allowances 2.2.3 RF Radio Path Survey \$4,750.00 The undersigned Subcontractor/subconsultant is prepared to self-perform the above-described work in conjunction with the aforementioned project at the following total price or percentage: \$4,750.00 If the undersigned intends to subcontract any portion of this work to another Subcontractor/subconsultant, please list the business name and the amount below accompanied by a separate properly executed Schedule 2. N/A Price or Percentage: Name of 2nd/3rd tier Subcontractor/subconsultant Engineered Design Services LLC Advantage Communications, Inc. Print Name of Prime Print Name of Subcontractor/subconsultant, Authorized Signature Authorized Signature Craig McKenzie, PE Mark Lavallee **Print Name Print Name Authorized Member** President Date: October 1, 2021 Date: October 1,2021

Revised 09/17/2019

A completed Schedule 2 is a binding document between the Prime Contractor/consultant and a Subcontractor/subconsultant (for any tier) and should be treated as such. The Schedule 2 shall contain bolded language indicating that by signing the Schedule 2,

All Subcontractors/subconsultants, including any tiered

Revised 09/17/2019

both parties recognize this Schedule as a binding document.

Subcontractors/subconsultants, must properly execute this document. Each properly executed Schedule 2 must be submitted with the bid/proposal. SOLICITATION/PROJECT NUMBER: PBCWUD Project No. 21-051 SOLICITATION/PROJECT NAME: Belle Glade Water Treatment Plant Demolition Prime Contractor: CDM Smith Inc. _Subcontractor:_Brown & Phillips, Inc. (Check box(s) that apply) ☑SBE □WBE ☑MBE □M/WBE □Non-S/M/WBE Date of Palm Beach County Certification (if applicable): 1/31/2019-1/30/2022 The undersigned affirms they are the following (select one from each column if applicable): Column 1 Column 2 Column 3 ☑ Male ☐ Female ☑ African-American/Black ☐ Asian American ☐ Caucasian American □ Supplier ☐ Hispanic American ☐Native American **S/M/WBE PARTICIPATION** – S/M/WBE Primes must document all work to be performed by their own work force on this form. Failure to submit a properly executed Schedule 2 for any S/M/WBE participation may result in that participation not being counted. Specify in detail, the scope of work to be performed or items supplied with the dollar amount and/or percentage for each work item. S/M/WBE credit will only be given for the areas in which the S/M/WBE is certified. A detailed proposal may be attached to a properly executed Schedule 2. Line **Item Description Unit Price** Quantity/ Contingencies/ **Total Price/Percentage** Item Units **Allowances** 5.02 Topography - Engineering Surveying \$26,448.56 The undersigned Subcontractor/subconsultant is prepared to self-perform the above-described work in conjunction with the aforementioned project at the following total price or percentage: \$26,448.56 If the undersigned intends to subcontract any portion of this work to another Subcontractor/subconsultant, please list the business name and the amount below accompanied by a separate properly executed Schedule 2. Price or Percentage: N/A Name of 2nd/3rd tier Subcontractor/subconsultant CDM Smith Inc. Brown & Phillips, Inc. Print Name of Subcontractor/subconsultant **Authorized Signature** Authorized Signature ne E. Mechler, PE, BCEE Anthony Brown Print Name Print Name Associate **CEO** Date: July 27, 2021 _{Date:} July 27, 2021

ATTACHMENT D

PROJECT SCHEDULE

The completion dates for this work will be as follows (starting from CONSULTANT'S receipt of Notice-to-Proceed).

| Engineering Services | Completion Date from Notice to Proceed |
|---|--|
| Task 1 Project and Subconsultant Management | 553 Calendar Days |
| Task 2 Preparation of Demolition and Design Drawings and Specifications Site Survey (10%) Site Water Main Design (30%) Site Demolition Documents and Specifications (60%) Design Documents and Specifications (90%) Design Documents and Specifications (100%) | 371 Calendar Days 78 Calendar Days 130 Calendar Days 238 Calendar Days 317 Calendar Days 371 Calendar Days |
| Task 3 Permitting Assistance | 371 (Calendar Days) |
| Task 4 Bidding Assistance | 553 (Calendar Days) |

ATTACHMENT E BUDGET SUMMARY

Palm Beach County Water Utilities Department

Contract for Consulting /Professional Services Water Treatment and Water Resources Engineering Services

Resolution No. <u>R2020-1719</u> Contract Dated November 17, 2020

Consultant Services Authorization No.: 04

Consultant:

CDM Smith Inc.
Belle Glade Water Treatment Plant Demolition Design and Bidding Services Project Title:

PBCWUD Project No.: 21-051

| | | | | | | | | | Labo | r Classification ar | d Hourly Rate | | | | | | | | | T | 1 |
|--------|---|----------------------|-------------------|---------------|-----------------|-----------------|-----------------|-----------------|-----------------|---------------------|-----------------|-----------------|---------------|---------------|---------------|-----------------|-----------------|------------------|--------------|---------------|--------------|
| | | Senior | Senior Technic | a Officer | Associate | Principal | Senior | Professional II | Professional I | Senlor GIS | Staff GIS | Senior Support | | | Field | | Project | Document Control | | Sub | |
| Task | | Officer | Expert | | | | Professional | | | Specialist | | | | | | Administration | Administration | Specialist | Total | Consultant | Total |
| Number | Task Description | [\$89.50-102.50] | [\$86.00-95.50] | [83.50-92.50] | [\$73,00-82.50] | [\$71.00-80.50] | [\$56.50-67.50] | [\$46.00-54.50] | [\$38.50-47.00] | [\$45.00-77.00] | [\$38.00-54.00] | [\$45.00-54.00] | [38.00-47.00] | [45.00-53.50] | [27.00-43.50] | [\$36.50-44.50] | [\$32.50-39.50] | [\$28.50-36.00] | Labor | Services | by Subtask |
| ask 1 | Project and Subconsultant Management | | | | | | | | | | | | | | | | | | I | | |
| 1.1 | Project Management | | | | 30 | 11 | | | | | | 26 | | | | 9 | | 25 | \$ 18,195.00 | \$ 8,888.00 | \$ 27,083.0 |
| | Subconsultant Management | | | L | 12 | | | | | | | | | | | 9 | | | \$ 4,171.50 | | \$ 4,171.5 |
| | Preparation of Demolition and Design Drawings | | | | | | | | | | | | | | | | | | | | 1 |
| | and Specifications | | i | 1 | L | İ | | | <u> </u> | | | | | | | | | | L | | |
| 2.1 | Data Collection | | | | 1 4 | <u> </u> | L | 4 | 4 | | | | | | | | | | | \$ 3,750.00 | |
| 2.2 | Preparation of Drawings and Specifications | | | | 4 | | | | | | | | | | | | | | \$ 990.00 | | \$ 990.0 |
| 2.2.1 | Site Survey | | | | | | | | | | | | | | | | | | \$ - | \$ 26,448.56 | \$ 26,448.5 |
| 2.2.2 | Site Civil | | | | | | | | | | | | | | | | | | \$ - | \$ 117,078.00 | \$ 117,078.0 |
| 2.2.3 | Site Electrical | | | 1 | | | | | | | | | | | | | | | \$ - | \$ 23,400.00 | \$ 23,400.0 |
| 2.3 | Quality Review | | | | 10 | | | 180 | | | | | | | | | | 20 | \$ 34,065.00 | | \$ 34,065.0 |
| 2.4 | Opinion of Probable Construction Costs | | | | 4 | | | | 1 | | | 83 | | | | | | | \$ 14,436.00 | | \$ 14,436.0 |
| ask 3 | Permitting Assistance | | | | 8 | | | 8 | 3 | | | | | | | | | | \$ 3,711.00 | \$ 13,522.00 | \$ 17,233.0 |
| ask 4 | Bidding Assistance | | | | 8 | | | 20 | 6 | | | 4 | | | | | | 4 | \$ 7,176.00 | \$ 7,172.00 | \$ 14,348.0 |
| | | | | | | | | | | | | | | | | | | | | | |
| | Subtotal | | | | 80 | 11 | | 212 | 13 | | | 113 | | | | 18 | | 49 | | | |
| | | | | | | | | | | | | | | | | | | | | | _ |
| | Labor Subtotal Hours | | | l . | 80 | 11 | | 212 | 13 | | | 113 | | | I | 18 | | 49 | 496 | j | 1 |
| | Labor Raw Costs | \$ 102.50 | \$ 95.50 | \$ 92.50 | \$ 82.50 | \$ 80.50 | \$ 67.50 | \$ 54.50 | \$ 47.00 | \$ 77.00 | \$ 54.00 | \$ 54.00 | \$ 47.00 | \$ 53.50 | \$ 43.50 | \$ 44.50 | \$ 39.50 | \$ 36.00 | | | 1 |
| | Labor Multiplier | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | | | 1 |
| | Labor Sub Total | | | | \$ 19,800.00 | \$ 2,656.50 | | \$ 34,662.00 | \$ 1,833.00 | | | \$ 18,306.00 | - | | | \$ 2,403.00 | | \$ 5,292.00 | | |] |
| | Labor Total | | | | | | | | | | | | | | | | | | \$ 84,952.50 | | 1 |
| | Out-oF-Pocket Expenses [black and white printing (8 | 3.5"x11") x Rate \$0 | 0.25 x 30 pages : | = \$7.50] | | | | | | | | | | | | | | | \$ 7,50 | \$ 1,276.64 | \$ 1,284.1 |
| | | | | | | | | | | | | | | | | | | | | | |
| | Sub Consultant Labor Total | | | 1 | | | | | | | | | | | | | | | T | | 1 |
| | Sub Consultant Multiplier | | | 1 | | | | | | | | | | | | | | | | | 1 |
| | Subcontract Total (C-Solutions, BPI, EDS) | | | | | | | | | | | | | | | | | | | \$ 201,535,20 | 1 |
| | | · · · · · · | | | • | | · · · · · · | | | | | | | | | | | L | Lice-i- | | 1 |
| | Prolect Total | | | T | | | | | | | | | | | | | | | | \$ 286,495.20 | 1 |
| | rroject rotar | | | | | | | | | | | | | | | | | | | 200,433.20 | 1 |



April 16, 2021

Timothy J O'Neil, P.E. CDM Smith 621 NW 53 Street, Suite 265 Boca Raton, Florida 33487

Subject: Proposal for PBC WUD Water General - Belle Glade Water Treatment Plant Demolition Design and

Bidding Services

Dear Mr. O'Neil,

C Solutions, Inc (C Solution) is pleased to provide the following scope of services.

Task 1 – Project and Subconsultant Management

Subtask 1.1 Project Management

Project management includes activities related to initiating, planning, executing, controlling, and closing the Project. Under this Task, the C Solutions will be responsible for overall coordination and oversight of the project execution.

Deliverable: Monthly invoice and project status.

Task 2 - Preparation of Demolition, and Design Drawings and Specifications

Subtask 2.1 Data Collection

Review record drawings for the adjacent various structures, facilit0ies, conduit and piping, and water distribution flow meter and piping at the former Belle Glade Water Treatment Plant

Subtask 2.2.2 Site Civil

C Solutions will provide demolition plans and descriptive specifications for the removal and disposal of below and above ground structures and foundations, removal and disposal of below and above ground conduit and piping. Miscellaneous site debris shall be removed and disposed. C Solutions will instruct the contractor to re-register the aboveground diesel storage tank and then complete the Closure Integrity Evaluation Report Form for ASTs 62-762.901(7) (Closure Integrity Report) via specifications. Including the rendering of the aboveground diesel storage tank free of regulated substances and vapors via specifications. C Solutions will provide structural design for fencing around the new flow meter area and concrete equipment pad within the new fencing area. C Solutions will provide civil design for flow meter and interconnecting the 24-inch, 16-inch, 12-inch, 6-inch water distribution mains along the south side of the property adjacent to Northwest Avenue D. C Solutions will provide civil design to simplify interconnecting the 20-inch and 14-inch water distribution mains north-south within the property, and 12-inch and 8-inch water distribution mains along the north side of the property adjacent to West Canal Street South such that each pipe flow is metered at one location.

CSolutions SOW Letter - GladesWTPDemo - 2021.04.16

- A. C Solutions will design for the following structures, facilities, and piping to be demolished:
 - Rectangular ground storage water tanks No. 1 and No. 2
 - Booster pump station No.1: A pump building containing the following items (but not limited to):
 - Four (4) pumps
 - Piping and valving installed with each pump.
 - Various chemical containers (such as Kochkleen P-02)
 - Piping and Bermad pressure sustaining valves.
 - One (1) manual crane system
 - One (1) diesel generator, insulated muffler, and monitoring system
 - Jaegar plastic packing
 - One (1) aboveground diesel storage tank on a concrete pad
 - One (1) radio antenna pole
 - Remnants of paved access roads
 - Aboveground piping and valves
 - Below ground piping and valves
 - Miscellaneous debris (i.e., metal, and vegetative soil mounds)
- B. C Solutions will design for water distribution flow meter and piping improvements as follows:
 - Replace the existing inline Sensus flowmeter with a new flowmeter.
 - Replace limit switch, solenoid switch, and instrumentation tubing on the existing pressure sustaining valve to automate the remote control of the pressure sustaining valve.
 - Add two (2) pressure transmitters upstream and downstream of the pressure sustaining valve.
 - Add fencing around the water distribution piping site and add a concrete pad around the distribution piping arrangement.
 - Modify the on-site water distribution piping. The 16-inch diameter to airport/mill can be abandoned. The 14-inch running north to south on the west side of water storage tank No. 1 needs to remain or be re-feed within right-of -ways. The 20-inch running north to south on the east side of water storage tank No. 1 needs to remain or be re-feed within right-of -ways.
 - Modify the Northwest Avenue D right-of-way water distribution piping with a 6-inch to 16-inch and 16-inch to 24-inch diameter pipe connections west of the flow meter.

C Solutions will prepare preliminary water main routing drawings, design development drawings and specification, and 90 percent design drawings and technical specifications for the removal and disposal design, and water distribution improvements design package for review by Palm Beach County Water Utility Department (COUNTY). C Solutions will review comments and incorporate agreed upon changes into the 100 percent drawings and specifications documents. C Solutions will prepare for and attend two (2) design related meetings, kick-off, and 90 percent design review. C Solutions will prepare and distribute meeting agenda materials and meeting minutes to attendees.

C Solutions will prepare demolition drawings and descriptive specifications for the removal of the existing 16-inch diameter water main (WM) aerial canal crossing over the Hillsborough Canal for the WM depicted by yellow dashed line in the Figure No. 1. C Solutions will prepare demolition drawings and descriptive specifications to grout and abandon in place the existing 16-inch diameter WM that is within the right-of-way of the West Canal Street South depicted by red dashed line in the Figure No. 1. C Solutions will prepare demolition drawings and descriptive specifications to grout and abandon in place the existing 16-inch diameter WM that is within the right-of-way of the Northwest Avenue D depicted by red dashed line in the Figure No. 1. C Solutions will prepare demolition drawings and descriptive specifications to grout and abandon in place the existing 16-inch diameter WM that crosses the West Lake Road depicted by red dashed line in the Figure No. 1.

C Solutions will provide electronic copies of deliverables in Portable Document Format (PDF) format (and original word or AutoCAD files).

Deliverables:

- Preliminary water main routing drawings
- Design Development demolition drawings and specifications
- Design Development Design Review Minutes
- 90 Percent Design drawings and specifications
- 90 percent Design Review Minutes
- 100 Percent Design drawings and specifications

Task 3 – Permitting Assistance

C Solutions will prepare the Application for Notification for Use of General Permit for Constructions of an Extension to a Public Drinking Water Distribution System [Florida Department of Environmental Protection (FDEP) form 62.555.900(7)]. A draft application package will be submitted to COUNTY with the 90 percent deliverable set for review and comments. A formal application package will be submitted to FDEP on behalf of the COUNTY after COUNTY's 100 percent deliverable review comments are incorporated into the final design documents.

C Solutions will prepare the Utility Application with Florida Department of Transportation (FDOT) to grout and abandon in place the existing 16-inch diameter WM that is within the right-of-way depicted by red dashed line in the Figure No. 1. C Solutions will prepare a Right-of-way Permit Application with South Florida Water Management District (SFWMD) for the removal of the existing 16-inch diameter WM aerial canal crossing over the Hillsborough Canal depicted by yellow dashed line in the Figure No. 1. C Solutions will prepare an Engineering permit with the City of Belle Glade Engineering Department to grout and abandon in place the existing 16-inch diameter WM along the Northwest Avenue D right-of-way depicted by red dashed line in the Figure No. 1.

C Solutions will provide electronic copies of deliverables in PDF format (and original MS Word or AutoCAD files).

Deliverables:

- Draft Permit Application with 90 Percent Design Deliverable
- Permit Application with 100 Percent Design drawings

Task 4 -Bidding Assistance

C Solutions will revise the 100 percent design documents with permitting comments and coordinate with the COUNTY Purchasing Division to prepare the Bid Set bidding documents. C Solutions will deliver electronic copies of the Contract Documents for the COUNTY to post on the COUNTY's web site. C Solutions will attend the pre-bid meeting with the COUNTY remotely via Zoom or other. C Solutions will prepare responses to written questions from registered holders of bidding documents during the bid phase to be issued by the COUNTY via addenda. After bids are received, the C Solutions will make a recommendation to the COUNTY on award of the contract.

C Solutions will provide electronic copies of deliverables in PDF format.

Deliverables:

- Bid set of completed construction documents (100 percent documents with permit comments and purchasing comments, drawing and technical specifications)
- Pre-Bid Meeting Notes
- Recommendation of Award Letter

DATA OR ASSISTANCE TO BE PROVIDED BY THE COUNTY

- Provide a copy of facilities and underground utilities record drawings.
- Provide a copy of the three-structures lead-based paint, asbestos, and polychlorinated Biphenyls (PBC) survey report.
- Provide a draft copy of front-end documents.
- Obtain utility easement using CDM Smith provided legal sketch and description.
- Provide acoustic leak detection of existing post-construction pipes.
- Provide model runs of C Solutions proposed pipe interconnects for flow directions or flow reductions.

Assumptions

- Permitting application fees shall be paid for by the COUNTY.
- A separate Consultant Services Authorization will be issued to support the COUNTY with the continuing effort to support the construction phase services or
- A separate Consultant Services Authorization will be issued to support the COUNTY with environmental site assessment, or monitoring well closure, or site development review and building department permitting, or health department permitting or Landscape Architect.

Time of Completion

The Notice to Proceed (NTP) will be provided by the CDM Smith and defines the official commencement of the C Solutions' contract for this task authorization. The time of completion will match the schedule provided by the C Solutions for these named tasks.

Proposed Compensation

The C Solutions shall perform the services defined in this scope of work for the Not to Exceed fee as shown in Attachment A (attached).

Should you have any questions or require additional information please feel free to contact us.

Regards,

Mark Drummond

President

C Solutions Inc.

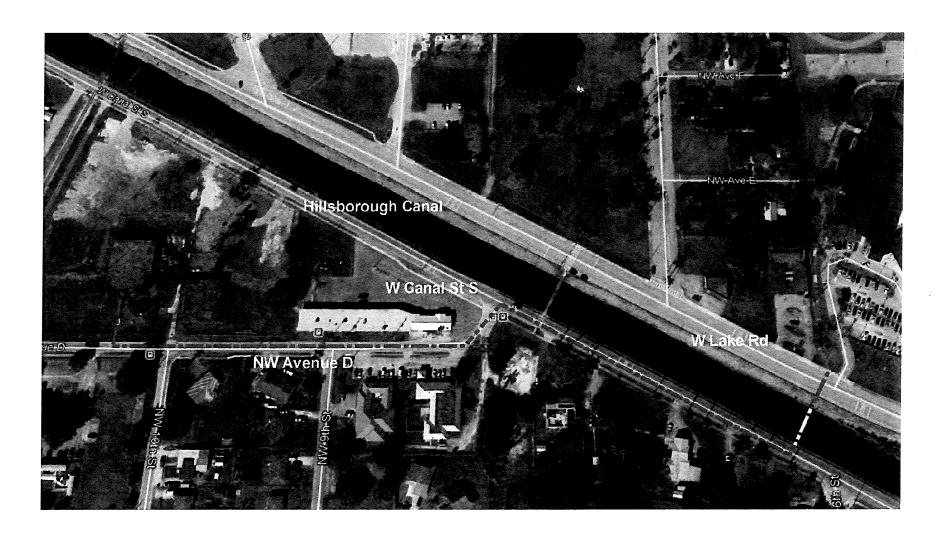


Figure No. 1 - 16-inch diameter Water Main

ATTACHMENT A - BUDGET SUMMARY

| | | Palm Beach Cou | unty Water Utiliti | es Department - | - Belle Glade W | ater Treatment I | Plant Decommiss | sioning | | | |
|------|--|---------------------|---------------------------|--------------------|-----------------|--------------------|-----------------------------|--|------------------------------------|---|---------------|
| Task | - Task Description | Project Director | Senior Project Manager | Senior Engineer | Enginear | Senior Designer | Administrative Assistant | Total Labor | Total Labor | Total | |
| | Raw Labor Rate | \$ 85 | \$ 75 | \$ 58 | \$ 32 | \$ 35 | \$ 27 | Hours | Elfort | Expenses | Total Effort |
| | Labor Rate with 3.0 Multiplier | \$ 255.00 | \$ 225.00 | \$ 174.00 | \$ 96,00 | \$ 105.00 | \$ 81,00 | | | | |
| 1.0 | Project and Subconsultant Management | 8 | 8 | 0 | 0 | 0 | 8 | 24 | \$ 4,488.00 | \$ - | \$ 4,488.00 |
| 2.0 | Preparation of Demolition, and Design Drawings and Specifications | 144 | 168 | 100 | 97 | 182 | 6 | 697 | \$ 120,828.00 | \$ - | \$ 120,828.00 |
| 2.1 | Data Collection | 4 | 8 | | 8 | | · · · · 2 | 22 | \$ 3,750.00 | | |
| 2.2 | Site Civil | 140 | 160 | 100 | . 89 | 182 | 4 | 675 | \$ 117,078.00 | | |
| 3.0 | Permitting Assistance | ,8 | 16 | 16 | 24 | 4 | 4 | 72 | \$ 11,472.00 | \$ - | \$ 11,472.00 |
| 4.0 | Bidding Assistance | 8 | 8.7 | 2 | 16 | 2 | 8 | 44 | \$ 6,582.00 | \$ - | \$ 6,582.00 |
| | ODCs | | 0 | 0 | 0 | 0, 4. | 0 | 0 | \$ - | \$ 1,276.64 | \$ 1,276.64 |
| · | Mileage (IRS Mileage Rate in 2021 is \$0.56 p Black and White Printing (8.5"X11") Color Printing (8.5"X11") Black and White Printing (11"X17") | er mile) | | | | | | Rate \$0.56 \$0.25 \$2.00 \$0.50 | Amount 744 2400 10 480 | \$ 416.64 \$ 600.00 \$ 20.00 \$ 240.00 | |
| | GRAND TOTAL | 168 | 200 | 118 | 137 | 188 | 26 | 837 | \$ 143,370.00 | \$ 1,276.64 | \$ 144,646.64 |



Palm Beach Water Utility Department Belle Glade Water Treatment Plant Demolition

Anticipated Drawing List

| GENER | ΔΙ | | | | | | | |
|-------|---|--|--|--|--|--|--|--|
| 1 | Tittle Sheet | | | | | | | |
| 2 | Drawing List | | | | | | | |
| 3 | General Notes | | | | | | | |
| 4 | Symbol and Abbreviations | | | | | | | |
| CIVIL | Symbol and Abbreviations | | | | | | | |
| 5 | Proposed Site Plan - Key Plan | | | | | | | |
| 6 | Proposed Site Plan - Sheet 1 | | | | | | | |
| 7 | Proposed Site Plan - Sheet 2 | | | | | | | |
| 8 | Staging Area | | | | | | | |
| 9 | | | | | | | | |
| 10 | Proposed Paving, Grating and Drainage - Key Plan | | | | | | | |
| 11 | Proposed Paving, Grating and Drainage - Sheet 1 | | | | | | | |
| | Proposed Paving, Grating and Drainage - Sheet 2 | | | | | | | |
| 12 | Demolition Site Plan - Key Plan | | | | | | | |
| 13 | Demolition Site Plan - Sheet 1 | | | | | | | |
| 14 | Demolition Site Plan - Sheet 2 | | | | | | | |
| 15 | Demolition of Existing 16" Water Main & Canal Crossing - Plan Profile - Sheet 1 | | | | | | | |
| 16 | Demolition of Existing 16" Water Main & Canal Crossing - Plan Profile - Sheet 2 | | | | | | | |
| 17 | Demolition of Existing 16" Water Main & Canal Crossing - Plan Profile - Sheet 3 | | | | | | | |
| 18 | Demolition of Existing 16" Water Main & Canal Crossing - Plan Profile - Sheet 4 | | | | | | | |
| 19 | Demolition of Existing 16" Water Main & Canal Crossing - Plan Profile - Sheet 5 | | | | | | | |
| 20 | Demolition of Existing 16" Water Main & Canal Crossing - Plan Profile - Sheet 6 | | | | | | | |
| 21 | Demolition of Existing 16" Water Main & Canal Crossing - Plan Profile - Sheet 7 | | | | | | | |
| 22 | Demolition Details and Sections - Sheet 1 | | | | | | | |
| 23 | Demolition Details and Sections - Sheet 2 | | | | | | | |
| 24 | Civil Standard Details - Sheet 1 | | | | | | | |
| 25 | Civil Standard Details - Sheet 2 | | | | | | | |
| 26 | Civil Standard Details - Sheet 3 | | | | | | | |
| 27 | Civil Standard Details - Sheet 4 | | | | | | | |
| MECHA | MECHANICAL | | | | | | | |
| 28 | Distribution Piping - Existing Plan | | | | | | | |
| 29 | Distribution Piping - Existing Section | | | | | | | |
| 30 | Distribution Piping - Demolition Plan | | | | | | | |
| 31 | Distribution Piping - Demolition Section | | | | | | | |
| 32 | Distribution Piping - Propose Plan | | | | | | | |
| 33 | Distribution Piping - Propose Section | | | | | | | |
| 34 | Mechanical Standard Details - Sheet 1 | | | | | | | |
| 35 | Mechanical Standard Details - Sheet 2 | | | | | | | |



Palm Beach Water Utility Department Belle Glade Water Treatment Plant Demolition

Anticipated Drawing List

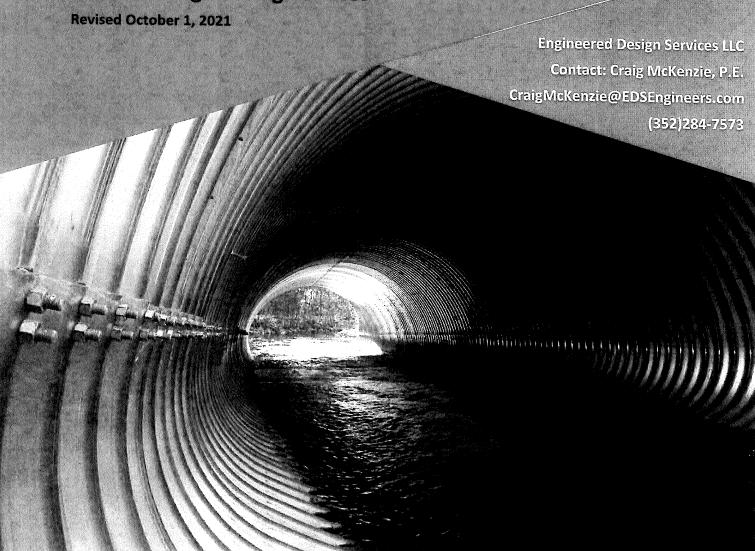
| STRUCTURAL | | | | | |
|------------|--|--|--|--|--|
| 36 | General Notes and Abbreviation, Symbols and Legends | | | | |
| 37 | Distribution Piping Slab Modifications - Plan & Sections | | | | |
| 38 | Antenna Foundation - Plan, Section and Details | | | | |
| 39 | Structural Standard Details - Sheet 1 | | | | |
| 40 | Structural Standard Details - Sheet 2 | | | | |





Proposal to: CDM Smith

PBCWUD
Belle Glade Water Treatment Plant Demolition
Electrical Engineering Services



October 1, 2021

Timothy J. O'Neil, P.E., BCEE Principal CDM Smith 621 NW 53rd Street, Suite 265 Boca Raton, Florida 33487

RE: Proposal for PBCWUD Water General - Belle Glade WTP Demo and New Flow Meter

Dear Mr. O'Neil:

Engineered Design Services (EDS) is pleased to support CDM Smith (CDM) in the design phase of for the demolition and new flow meter addition at the Former Belle Glade WTP location. As a sub-contractor to CDM, EDS proposes the following design services.

DESIGN PHASE SCOPE OF SERVICES:

Our proposed scope of services will include the following services :

Project Management:

Project management includes activities related to initiating, planning, executing, controlling, and closing the Project. Under this Task, EDS will support CDM in the overall coordination and oversight of the project execution. The EDS Project Manager will be the primary point of contact with CDM and will support the Consultant Team during the project execution, focusing on quality completion of the project tasks on schedule and budget.

Preparation of Demolition and Design Drawings and Specifications

EDS will provide demolition plans and descriptive specifications will be developed for the demolition of all the electrical fixtures and wiring within the limits of the BGWTP site with the exception of the existing distribution piping, flowmeter, and pressure sustaining valve located on the south side of the site.

EDS will provide design criteria for a new radio antenna, electrical and instrumentation design for a new RTU system and add direct power to the new flowmeter. EDS will also design the new RTU panel, and relocation of the AMI radio concrete antenna.

The electrical demolition plan documents will also include restoration of the BGWTP site. It is assumed that there are no existing as-built drawings or documents that reflect the layout of all remaining structures, piping

Permitting and Bidding Assistance

EDS will provide assistance in the permitting and bidding of the project for construction. EDS will prepare a construction bid package to the requirements of CDM for the County. EDS will provide responses to contractor RFIs during the bidding process, and will assist in reviewing all submitted bids for award.

RF Path Survey & FCC Radio License

EDS will provide an RF path survey for the site.

CONSULTANT will provide electronic copies of deliverables in *.PDF format.

Deliverables:

- a) Design Development demolition drawings and specifications for electrical scope
- b) Design Development Design Review Minutes for electrical scope
- c) 90 Percent Design drawings and specifications for electrical scope
- d) 90 percent Design Review Minutes for electrical scope
- e) 100 Percent Design drawings and specifications for electrical scope

Exclusions

• Site Survey, Site Planning Services, CA Services, construction estimate, LEED Services, As-Built Set, and owner requested changes are not included in scope of services.

Project Specific Quality Control Plan

EDS intends to ensure the quality of our projects in the following manner:

JOB SAFETY ANALYSIS

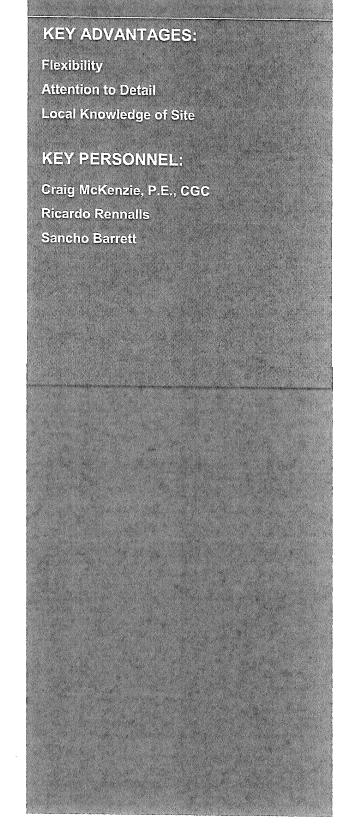
At Engineered Design Services, we believe that safety is
the key to success in all construction projects. As a result,
we carefully plan out our activities prior to the site visit,
and perform a safety review before each site visit. Craig
McKenzie, P.E. will be in charge of safety for the project
team

PERSONAL PROTECTIVE EQUIPMENT

- EDS provides all staff with the required safety equipment for the project including, but not limited to, eye protection, steel toe boots, hi-viz vests, hearing protection, etc.
- During our JSA, we will identify any additional equipment or procedures to ensure safe working activities.

PROJECT DOCUMENTATION

- Project documentation created will be checked internally by Craig and other project professionals prior to submission to JSA.
- All project documentation will be memorialized in a Project QA/QC Book, per EDS standards.



4

Project Pricing

Respectfully Submitted,

We have developed a time and materials budget for the Belle Glade WTP project based on our understanding of the scope provided.

The T&M not-to exceed fee for EDS to provide the scope of work tasks and services shall be \$30,440, based on the task breakdown below.

PAYMENT SCHEDULE

| DESCRIPTION | HOURS | RAW COST | MULTIPLIER | RATE | LABOR\$ E | XPENSE S | TOTAL S |
|---|-------|----------|------------|------|-----------|-----------------|----------------------|
| Task 1 - Project and Subconsultant Management | 28 | | | | \$4,400 | \$0 | \$4,400 |
| Senior Engineer | 20 | 62.50 | 2.72 | 170 | \$3,400 | Ψ¥ _į | ψ-1, 1 00 |
| Project Engineer | 8 | 45.96 | 2.72 | 125 | \$1,000 | 1 | |
| Task 2 - Demolition and Design Drawings | 160 | | | | \$18,650 | \$0 | \$18,650 |
| Senior Engineer | 36 | 62.50 | 2.72 | 170 | \$6,120 | 70 | 310,030 |
| Project Engineer | 70 | 45.96 | 2.72 | 125 | \$8,750 | 3 | |
| Designer I | 54 | 25.74 | 2.72 | 70 | \$3,780 | | |
| Task 3 - Permitting | 16 | | | | \$2,050 | \$0 | \$2,050 |
| Senior Engineer | 6 | 62.50 | 2.72 | 170 | \$1,020 | Ųυ | 32,030 |
| Project Engineer | 6 | 45.96 | 2.72 | 125 | \$750 |) | |
| Designer I | 4 | 25.74 | 2.72 | 70 | \$280 | 1 | |
| Task 4 - Bidding Assistance | 4 | | | | \$590 | \$0 | \$590 |
| Senior Engineer | 2 | 62,50 | 2.72 | 170 | \$340 | ŞU | ว้อลก |
| Project Engineer | 2 | 45.96 | 2.72 | 125 | \$250 | } | |
| RF Radio Path Survey (Advantage Communications) | - | | | | \$0 | <u> </u> | \$4,750 |

We appreciate the opportunity to provide this proposal and look forward to working with you. Should you have any questions, please do not hesitate to contact us.

| Craig McKenzie, P.E. President/Principal Engineer Engineered Design Services LLC | |
|--|--------|
| Offer Accepted by: | |
| | |
| Signature: | _Date: |



ADVANTAGE COMMUNICATIONS, INC.

Excellence in Mission Critical and Life Safety Radio Networks

PROPOSAL

RF Consulting, Radio Network Design, FCC Licensing

Office Phone: 954-961-2642 Facsimile: 954-894-8900

Fed. Tax ID #: 65-0456787

Email POs to po@advantage-com.com

Specializing in: Government, Healthcare, and Industrial Solutions

Mailing address: 515 South Highlands Drive

Hollywood, FL 33021

Internet Address: <u>www.advantage-com.com</u>

Customer:

Engineered Design Services LLC

Date:

Wednesday, February 3rd 2021

Project Name:

Palm Beach RF Services SCADA Radio

Proposal Number: Engineered Design Services PBC RF Services

Description

RF Consulting to include a radio path survey, for the two following sites:

39700 Hooker Highway, Belle Glade, Fl (base station at WTP11); 1016 W Canal Street South, Belle Glade, Fl (new antenna at remote site, Belle Glade WTP)

Cost for above is \$ 4,750.00

Terms: a late charge of 1.5% per month will be applied to any unpaid balance after 30 days from the invoice date.

Thank you for the opportunity to quote this project.



April 16, 2021

Mr. Timothy O'Neil CDM Smith 621 NW 53rd Street, Suite 265 Boca Raton, FL 33487

Re: PBCWUD Belle Glade Water Treatment Plant at 1016 W. Canal Street South

(PCN 04374331010110070)

Boundary and Topographic Survey for Plant Demolition Design and Bidding Services

Dear Tim:

Thank you for the opportunity to provide you with the following services for the subject site. This proposal is based on documentation and information provided by your office. The scope of services is as follows:

SCOPE OF SERVICES

I. HORIZONTAL PROJECT NETWORK CONTROL

A traverse will be run through the site and all found monumentation will be tied in. The survey will be oriented to Palm Beach County horizontal control (NAD 83/11 Adjustment). We will obtain the sectional and geodetic control information from the Palm Beach County Survey Department.

II. VERTICAL PROJECT NETWORK CONTROL

A level run will be performed onsite using the existing Palm Beach County benchmarks (NAVD 1988). At least two benchmarks will be set onsite.

III. BOUNDARY TIES AND MONUMENTATION

We will search for and tie in any existing boundary corners. These will be added to the drawing and will aid in controlling the survey. We will set a monument at all corners of the boundary, where missing, as required by law. We will then prepare a boundary survey in accordance with the Standards of Practice in Rule 5J-17.050-0.53, Florida Administrative Code, pursuant to Chapter 472.027 of the Florida Statutes. We will review any title work supplied by you. In addition, we will flag the adjoining property corners clouded in red on Attachment 'B'

IV. TIE IN IMPROVEMENTS AND CROSS SECTIONS

A complete topographic survey (limits outlined in red on Attachment 'B') will be done at the site tying in all above ground features. This will include but not be limited to buildings, pavement, walks, utilities, and drainage structures. We will obtain elevations on the site on an approximate 50' grid. We will locate sufficient points to give an accurate representation of the lay of the land, and we will extend the survey to the south edge of pavement of Northwest Avenue D.

1860 Old Okeechobee Road • Suite 509 • West Palm Beach, Florida 33409 (561) 615-3988 • Fax (561) 615-3991

AFEL mally's doce PROPOSAL SIRV COMPANY COM Smith Ralla Glada WTD Ralla Glada Water Treatment Plant Roundary & Tonographic Survey doc

O'Neil April 16, 2021 Page 2

In addition, we will perform a topographic survey for the right-of-way (1,600'±) along the path of the existing 16-inch diameter airport/mill water main with aerial canal crossing over the Hillsborough Canal (shown in red and yellow on Attachment 'E'). The survey will include the Northwest Avenue D right-of-way along the path of the existing 16-inch diameter airport/mill water main shown as a red-font dashed line on Attachment 'E'.

V. AS-BUILT

We will attempt to get as-built information on all the pipes leading out of any storm or sanitary sewer structures found. We will show invert elevations, pipe sizes and materials for all pipes located including outfall pipes.

VI. UNDERGROUND UTILITIES

We will designate the underground utilities within the area marked in purple on Attachment 'C' and not the entire site. In addition, we will locate lines marked in red on Attachment 'D' and perform six (6) test holes at the requested locations shown on Attachment 'D'. We will then add the designates and test hole information (top of pipe x-y-z coordinates) to the survey.

VII. TREE SURVEY

We will locate and tag trees 4 inches in diameter or larger. Trees will be measured at breast height. Hedges and ground cover will not be located or shown on the survey. Exotic trees such as Melaleuca, Brazilian pepper and Australian pine will not be located or shown on the survey. We will identify the various types of trees located on this site based on common knowledge of tree species. A qualified landscape architect should be employed for positive identification of tree species. We will then produce a drawing showing all the trees located. We will provide you with signed and sealed hard copies and an AutoCAD file of the trees located.

VIII. PARCEL SKETCHES AND LEGAL DESCRIPTIONS

We will prepare legal descriptions and sketches for utility easements as needed. These sketches will be based on record ownership data and record plats provided by Palm Beach County. All sketches will be consistent with the requirements of Palm Beach County and Florida Minimum Technical Standards. We have estimated up to four (4) legal descriptions and sketches for this project.

IX. CLOSURE

A drawing will be produced which will show all the features located. We propose to provide CDM Smith with hard copies, a digitally signed PDF file, and an AutoCAD file in the version requested. Any additional work will be done on an hourly basis as approved by you. We will perform the scope of services for an **hourly**, **not to exceed fee of \$26,448.56** (\$22,348.56 for the Survey and Legal Descriptions and Sketches, \$2,000.00 for Underground Utility Locations and \$2,100.00 for six test holes), see Attachment 'A' for an hourly breakdown.

O'Neil April 16, 2021 Page 3

Please do not hesitate to call me with any questions you might have regarding this proposal. We look forward to working with you on this project.

| Brown & Phillips, Inc. | This Proposal accepted this day of, 202 | | | | |
|---|---|--|--|--|--|
| John E. Philly III John E. Phillips III, P.L.S. Rripcipal | By:CDM Smith | | | | |
| Attachment | Print Name: | | | | |
| JEP/mb | Title: | | | | |



ATTACHMENT 'A'

PBCWUD Belle Glade Water Treatment Plant at 1016 W. Canal Street South (PCN 04374331010110070)

Type of Survey: Boundary, Topographic and Tree

Size:

Date: April 16, 2021

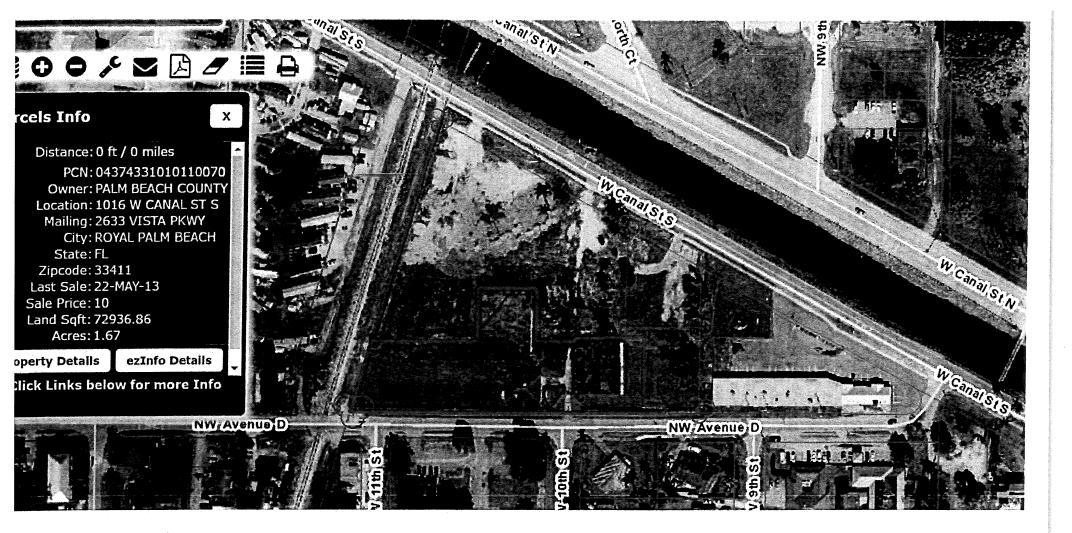
| SURVEY CREW | CADD TECH | SURVEY TECH | Professional Land Surveyor | COMMENTS |
|--|--|------------------------------|---|--|
| | | | 4 | |
| 4 | | 10 | 2 | Review title package. Set control points, work up boundary |
| 6 | | 1 | | Establish onsite benchmarks |
| 6 | | 2 | 1 | Find and locate existing monumentation |
| 10 | | 3 | 1 | Set property corners and flag adjoining property corners |
| 16 | | 3 | 1 | All above ground features, 50' cross sections & spot elevs. |
| 32 | 16 | 20 | 4 | Limits outlined in yellow and red on Attachment 'E' (1600'±), work up R/W |
| 1 | | | | Obtain as-built data |
| 8 | | 2 | | Field locate flagged utilities and test holes |
| 1 | | | | Locate trees over 3" in diameter (not exotics) number and label |
| | 20 | 5 | 3 | Prepare boundary, topographic and tree survey |
| | | 20 | 4 | and tree survey |
| 84 | 36 | 66 | 20 | |
| \$42.17 | \$30.12 | \$30.12 | \$41.75 | unloaded rates |
| \$3,542.28 | \$1,084.32 | \$1,987.92 | \$835.00 | |
| The state of the s | 4 6 6 10 16 32 1 8 1 | 4 6 6 10 16 1 1 8 1 20 84 36 | 4 10 6 1 6 2 10 3 16 3 32 16 20 5 20 5 20 5 20 66 | 4 10 2 6 1 6 2 1 10 3 1 16 3 1 32 16 20 4 1 20 4 8 2 1 20 5 3 20 4 84 36 66 20 |

| Other Direct Costs: SUE Utility Locations SUE Test Holes Other | <u>quantity</u> | unit | <u>cost/unit</u> | <u>total</u> |
|--|-----------------|------|------------------|--------------|
| | 1 | LS | \$2,000.00 | \$2,000.00 |
| | 6 | each | \$350.00 | \$2,100.00 |
| Total Other Direct Costs: | | | | \$0.00 |

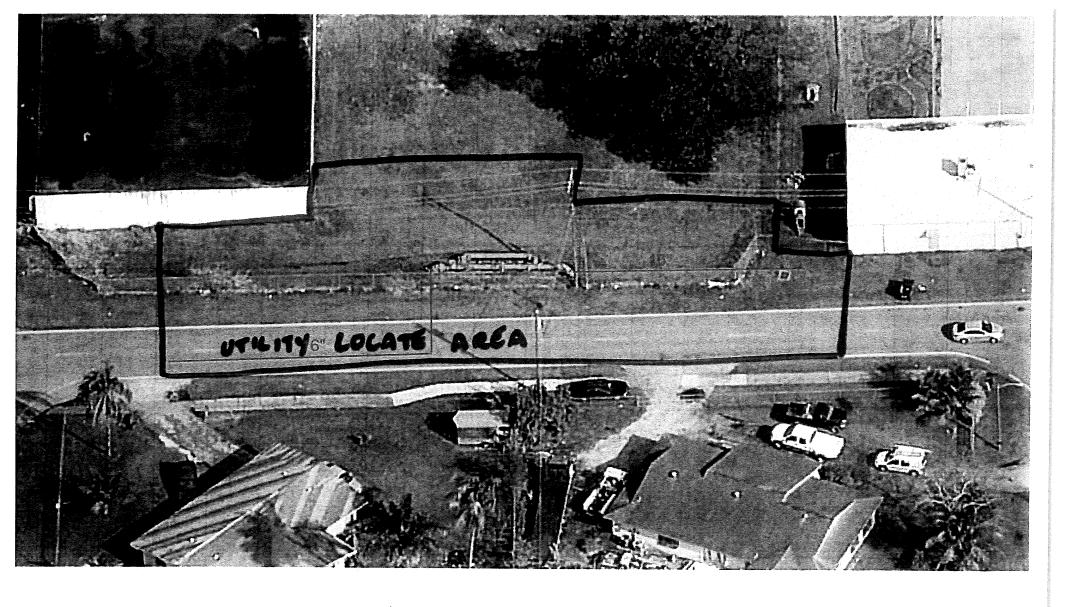
\$4,100.00

TOTAL PRICE

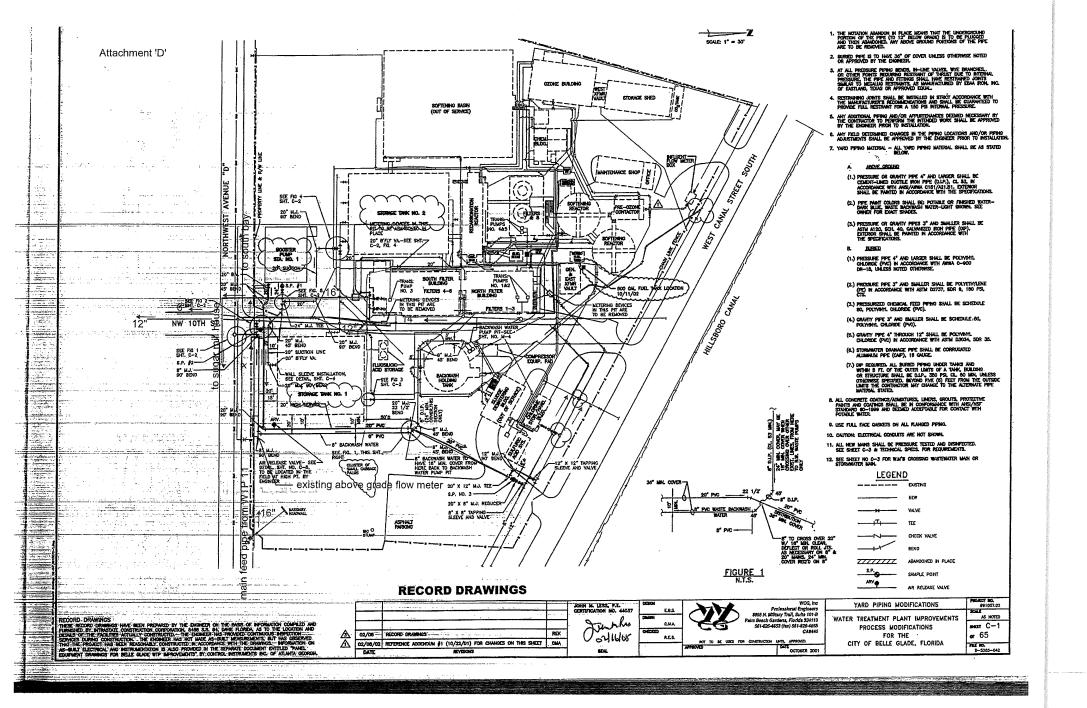
\$26,448.56



Attachment 'B'



Attachment 'C'



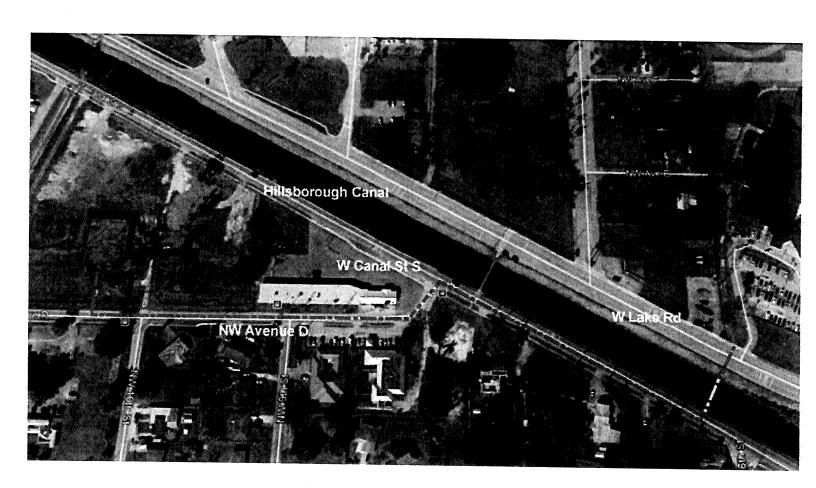


Figure No. 1 - 16-inch diameter Water Main

ATTACHMENT F

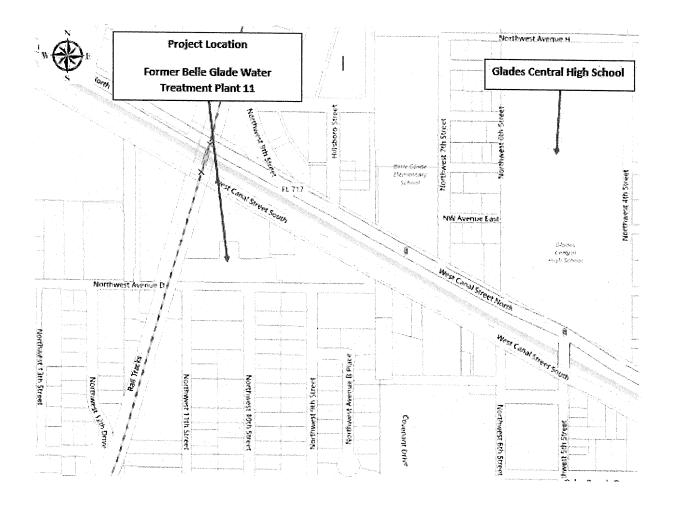
Palm Beach County Water Utilities Department
Contract for Consulting/Professional Services
Water Treatment and Water Resources Engineering Services
Resolution No. R2020-1719 Contract Dated November 17, 2020

SUMMARY OF SBE-M/WBE BUSINESS TRACKING

| Master Contract Goals | SBE: | MBE(B): |
|--|----------------|----------------|
| | 21.00% | 19.00% |
| Current Proposal | | |
| Value of Authorization No. 4 | \$286,495.20 | \$286,495.20 |
| Value of SBE-M/WBE Letters of Intent | \$196,785.20 | \$196,785.20 |
| Actual Percentage | 68.68% | 68.68% |
| Signed/Approved Authorizations | | |
| Total Value of Authorizations | \$745,401.90 | \$745,401.90 |
| Total Value of SBE-M/WBE Signed Subcontracts | \$253,682.40 | \$0.00 |
| Actual Percentage | 34.03% | 0.00% |
| Signed/Approved Authorizations Plus Current Proposal | | |
| Total Value of Authorization | \$1,031,897.10 | \$1,031,897.10 |
| Total Value of Subcontractors & Letters of Intent | \$450,467.60 | \$196,785.20 |
| Actual Percentage | 43.65% | 19.07% |
| | | |

ATTACHMENT G

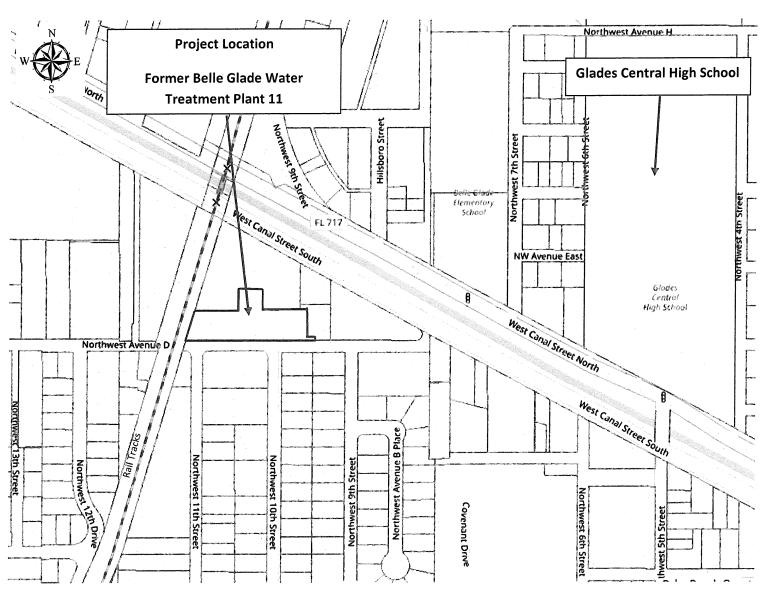
LOCATION MAP PBCWUD Project No. <u>21-051</u>



Revised 04/26/2021

ATTACHMENT 2

Location Map 20-051







CERTIFICATE OF LIABILITY INSURANCE

DATE(MM/DD/YYYY) 12/29/2020

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

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

| | | · | | | | | | |
|---|--------------------------------|--------------------------|-------------------------|--------------------------------|-----------|--|--|--|
| PRODUCER AON Risk Services Northeast | Inc | CONTACT NAME: | | | | | | |
| Boston MA Office 53 State Street Suite 2201 | , Inc. | PHONE (A/C. No. Ext): | (866) 283-7122 | FAX (A/C. No.): 800-363-010 | 5 | | | |
| | | E-MAIL ADDRESS: | | | | | | |
| Boston MA 02109 USA | | | INSURER(S) AFFORDING CO | VERAGE | NAIC# | | | |
| INSURED | | INSURER A: | Commerce & Industry I | is Co | 19410 | | | |
| CDM Smith Inc. 175 State Street Suite 701 | | INSURER B: | Liberty Mutual Fire I | ns Co | 23035 | | | |
| Boston MA 02109 USA | | INSURER C: | Liberty Insurance Corp | oration | 42404 | | | |
| · | | INSURER D; | LM Insurance Corporat | ion | 33600 | | | |
| | | INSURER E: | ACE Property & Casual | ty Insurance Co. | 20699 | | | |
| | | INSURER F: | Lloyd's Syndicate No. | 2623 | AA1128623 | | | |
| COVERAGES | CERTIFICATE NUMBER: 5700854575 | 98 | REVISION | NUMBER: | · | | | |

| - 11 | HIS IS TO CERTIFY THAT THE POLICIES | ur insur | ANNOE FIREED REFORM HAVE REE | N ISSUED TO | HE INSUR | ED NAMED ABOVE FOR T | HE POLICY PERIOD |
|------|-------------------------------------|-----------------------|-------------------------------|----------------------------|----------------------------|---|---------------------|
| - IN | IDICATED. NOTWITHSTANDING ANY REC | UIREMEN | NT, TERM OR CONDITION OF ANY | CONTRACT | OR OTHER D | OCUMENT WITH RESPE | CT TO WHICH THIS |
| C | ERTIFICATE MAY BE ISSUED OR MAY P | ERTAIN, 1 | THE INSURANCE AFFORDED BY 1 | THE POLICIES | S DESCRIBE | D HEREIN IS SUBJECT T | O ALL THE TERMS. |
| E. | XCLUSIONS AND CONDITIONS OF SUCH | POLICIES | 6. LIMITS SHOWN MAY HAVE BEEN | REDUCED B | Y PAID CLAIN | | own are as requeste |
| LTR | TYPE OF INSURANCE | ADDU SUBF INSD WVD | | POLICY EFF (MM/DD/YYYY) | POLICY EXP (MM/DD/YYYY) | LIMIT | s |
| C | X COMMERCIAL GENERAL LIABILITY | | TB7611B8T8Z6041 | 01/01/2021 | 01/01/2022 | EACH OCCURRENCE | \$2,000,00 |
| | GLAIMS-MADE X OCGUR | | | | | DAMAGE TO RENTED PREMISES (Ea occurrence) | \$1,000,000 |
| | | - | 1 | | | MED EXP (Any one person) | \$10,000 |
| | | | | | | PERSONAL & ADV INJURY | \$2,000,000 |
| | GEN'LAGGREGATE LIMIT APPLIES PER: | - | | | | GENERAL AGGREGATE | \$4,000,000 |
| | POLICY X PRO- X LOC | - 1 | | | | PRODUCTS - COMP/OP AGG | \$4,000,000 |

| I | | | | | | | | PERSONAL & ADV INJURY | \$2,000,000 |
|---|---|---|-----|----------|--------------------------|------------|------------|--|-------------|
| ı | | GEN'LAGGREGATE LIMIT APPLIES PER: | | | | | • | GENERAL AGGREGATE | \$4,000,000 |
| ı | | POLICY X PRO- X LOC | | | | | | PRODUCTS - COMP/OP AGG | \$4,000,000 |
| I | | OTHER: | | | | | | | |
| ĺ | В | AUTOMOBILE LIABILITY | | | AS2-611-B8T8Z6-061 | 01/01/2021 | 01/01/2022 | COMBINED SINGLE LIMIT (Ea accident) | \$2,000,000 |
| ı | | X ANY AUTO | | | | } | | BODILY INJURY (Per person) | |
| ľ | | OWNED SCHEDULED AUTOS | | ļ | | | | BODILY INJURY (Per accident) | |
| | | AUTOS ONLY HIRED AUTOS ONLY AUTOS ONLY AUTOS ONLY | | | | | | PROPERTY DAMAGE (Per accident) | |
| ١ | | | 1 | | | | | | |
| | E | X UMBRELLA LIAB X OCCUR | | | XEUG28194687005 | 01/01/2021 | 01/01/2022 | EACH OCCURRENCE | \$5,000,000 |
| | | EXCESS LIAB CLAIMS-MADE | | | | | | AGGREGATE | \$5,000,000 |
| ı | | DED RETENTION | 1 | | | | | | |
| I | D | WORKERS COMPENSATION AND EMPLOYERS' LIABILITY Y/N | | | WA561DB8T8Z6011 AOS | 01/01/2021 | 01/01/2022 | X PER STATUTE OTH- | |
| ı | D | ANY PROPRIETOR / PARTNER / EXECUTIVE N | N/A | İ | WC5611B8T8Z6021 | 01/01/2021 | 01/01/2022 | E.L. EACH ACCIDENT | \$1,000,000 |
| ١ | | (Mandatory In NH) | 1 | | WI | | | E.L. DISEASE-EA EMPLOYEE | \$1,000,000 |
| ١ | | If yes, describe under DESCRIPTION OF OPERATIONS below | | | | | | E.L. DISEASE-POLICY LIMIT | \$1,000,000 |
| ĺ | F | Archit&Eng Prof | | | PSDEF2100033 | 01/01/2021 | 01/01/2022 | | \$2,000,000 |
| | | | | | Professional/Claims Made | | | Aggregate | \$3,000,000 |
| l | | | 1 | <u> </u> | | | | | |

DESCRIPTION OF OPERATIONS/LOCATIONS/VEHICLES (ACORD 101, Additional Remarks Schedule, may be attached if more space is required)

RE: Professional Services - Water Treatment and Water Resources Engineering Services - WUD No. 19-076R. Palm Beach County, Board of County Commissioners, a Political Subdivision of the State of Florida, its Officers, Employees and Agents are included as Additional Insured in accordance with the policy provisions of the General Liability and Automobile Liability policies.

Umbrella Liability policy is follow-form.

| CEF | ŧΤ | 11 | ICAT | Έl | Ю | LD | ER | |
|-----|----|----|-------------|----|---|----|----|---|
| | _ | | | | | | | _ |

Palm Beach County Water Utilities Department Attn: Ali Bayat, P.E., PMP 8100 Forest Hill Blvd. West Palm Beach FL 33413 USA CANCELLATION

SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS.

AUTHORIZED REPRESENTATIVE

Aon Pish Services Northeast, Inc.



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ACORD 25 (2016/03)

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