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2/25

RESOLUTION NO. 2019-\_\_\_\_\_

A RESOLUTION APPROVING AN AGREEMENT FOR PROFESSIONAL SERVICES IN THE AMOUNT OF \$4,274,839 BETWEEN THE CITY OF TAMPA AND CH2M HILL ENGINEERS, INC. IN CONNECTION WITH CONTRACT 19-C-00022; DAVID L. TIPPIN WATER TREATMENT FACILITY HIGH SERVICE PUMP STATION & MISCELLANEOUS IMPROVEMENTS DESIGN-BUILD; AUTHORIZING THE MAYOR OF THE CITY OF TAMPA TO EXECUTE SAME; PROVIDING AN EFFECTIVE DATE.

WHEREAS, via the competitive selection process in accordance with Florida Statutes Section 287.055, Consultants' Competitive Negotiation Act and consistent with Federal procurement policies, the City of Tampa (City) selected CH2M Hill Engineers, Inc. (Firm) to provide professional services in connection with Contract 19-C-00022; David L. Tippin Water Treatment Facility High Service Pump Station & Miscellaneous Improvements Design-Build, (Project) as detailed in the Agreement for Design-Build Initial Services (Agreement); and

WHEREAS, the City desires to enter into an agreement with the Firm to provide certain professional services; and

WHEREAS, it is in the best interest of the City of Tampa to enter into this Agreement.

NOW, THEREFORE,

BE IT RESOLVED BY THE CITY COUNCIL OF THE CITY OF TAMPA, FLORIDA:

**Section 1.** That the Agreement for Design-Build Initial Services between the City of Tampa and CH2M Hill Engineers, Inc. in connection with Contract 19-C-00022; David L. Tippin Water Treatment Facility High Service Pump Station & Miscellaneous Improvements Design-Build as detailed in said Agreement, a copy of which is attached hereto and made part hereof, is authorized and approved in its entirety or in substantially similar form.


**Section 2.** That the Mayor of the City of Tampa is authorized and empowered to execute, and the City Clerk to attest and affix the official seal of the City of Tampa to, said Agreement on behalf of the City of Tampa.

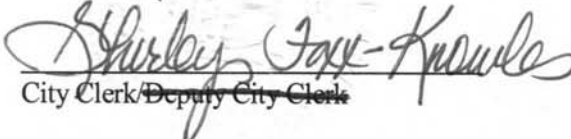
**Section 3.** This will provide \$4,274,839 for professional engineering services for use by the D. L. Tippin High Service Pump Station Project within the Water – Renewal and Replacement Fund.

**Section 4.** That other proper officers of the City of Tampa are authorized to do all things necessary and proper in order to carry out and make effective the provisions of this Resolution, which shall take effect immediately upon its adoption.

PASSED AND ADOPTED by the City Council of the City of Tampa, Florida, on JUN 06 2019.

ATTEST:

  
\_\_\_\_\_  
Chairman/Chairman Pro-Tem, City Council

  
\_\_\_\_\_  
City Clerk/Deputy City Clerk

Approved as to Legal Sufficiency by  
Justin R. Vaske, Assistant City Attorney

YZ019-21

## AGREEMENT FOR DESIGN-BUILD INITIAL SERVICES

THIS AGREEMENT, made and entered into at Tampa, Florida, this \_\_\_\_\_ day of \_\_\_\_\_, 201\_\_, by and between the City of Tampa, a municipal corporation of the State of Florida, hereinafter referred to as "City", and the following entity authorized to do business in the State of Florida: CH2M HILL Engineers, Inc., a Delaware corporation, hereinafter referred to as "Firm", with an FIEN of 32-0100027.

### WITNESSETH:

**WHEREAS**, the City desires to engage the Firm to perform certain specified services pertinent to such work which shall be referred to as Contract 19-C-00022; David L. Tippin Water Treatment Facility High Service Pump Station & Miscellaneous Improvements Design-Build "Project" in accordance with this Agreement; and

**WHEREAS**, the Firm desires to provide such services in accordance with this Agreement.

**NOW, THEREFORE**, in consideration of the mutual covenants, promises, representations and considerations to be kept, performed and paid, the parties hereto agree for themselves, their successors and assigns, as follows:

#### **I. GENERAL SCOPE OF THIS AGREEMENT**

A. The relationship of the Firm to the City shall be that of an independent professional Design-Builder for the Project; and the Firm shall provide the pre-Design-Build services required under this Agreement in accordance with acceptable architectural/engineering/construction practices and ethical standards.

B. Any additional services to be provided by the Firm shall be set out in detail by subsequent Agreement.

C. The Guaranteed Maximum Price proposal to be prepared and provided by the Firm in accordance with this Agreement shall be used as a basis for negotiating the future Agreement for Construction Services. A Design-Build Fee not to exceed eight percent (8%) shall be used in the calculation of the Total Project Cost.

D. The scope of services to be provided is indicated in **Exhibit A**.

#### **II. DATA AND SERVICES TO BE PROVIDED BY THE CITY**

The City shall provide:

A. Available plans and specifications of existing construction.

B. Ground topography.

#### **III. PERIOD OF SERVICE**

A. The Firm shall begin work promptly after receipt of a fully executed copy of the Agreement. All work shall be completed within twelve months after issuance of the Notice to Proceed.

B. The Firm's services called for under this Agreement shall be completed provided that, if the Firm's services are delayed for reasons beyond the Firm's control, the time of performance shall be adjusted appropriately.

#### **IV. GENERAL CONSIDERATIONS**

A. All original sketches, tracings, drawings, computations, details, design calculations, specifications and other documents and plans that result from the Firm's services under this Agreement shall become and remain the property of the City upon receipt of payment by the Firm from the City for services rendered in connection with the

preparation of said sketches, tracings, etc. Where such documents are required to be filed with governmental agencies, the Firm will furnish copies to the City upon request.

B. The City acknowledges that the materials cited in Paragraph IV. A. above, which are provided by the Firm, are not intended for use in connection with any project or purpose other than the Project and purpose for which such materials were prepared without prior written consent and adaptation by the Firm shall be at the City's sole risk, and the Firm shall have no responsibility or liability therefor.

C. Any use by the City of such materials in connection with a project or purpose other than that for which such materials were prepared without prior written consent and adaptation by the Firm shall be at the City's sole risk, and the Firm shall have no responsibility or liability therefore.

**V. COMPENSATION**

The City shall compensate the Firm for the pre-Design-Build services performed under this Agreement in the amount of \$4,274,839 in accordance with **Exhibit B**.

**VI. PAYMENT**

Payments shall be made upon presentation of the Firm's approved invoice.

**VII. RECORDS**

Records for Personnel Expenses shall be kept on a generally recognized accounting basis and shall be available to the City or its authorized representative at mutually convenient times.

With respect to all matters covered by this Agreement, records will be made available for examination, audit, inspection, or copying purposes at any time during normal business hours at a location within Hillsborough County, Florida as often as the City, HUD, representatives of the Comptroller General of the United States or other federal agency may reasonably require. Firm will permit same to be examined and excerpts or transcriptions made or duplicated from such records, and audits made of all contracts, invoices, materials, records of personnel and of employment and other data relating to all matters covered by this Agreement. The City's right of inspection and audit shall obtain likewise with reference to any audits made by any other agency, whether local, state or federal. Firm shall retain all records and supporting documentation applicable to this Agreement for five (5) years from the date of submission of the annual performance report to HUD. If any litigation, claim, negotiation, audit, monitoring, inspection or other action has been started before the expiration of the required record retention period, records must be retained until completion of the action and resolution of all issues which arise from it, or the end of the required period, whichever is later.

**VIII. PERSONNEL**

The Firm represents that it has or will secure, at its own expense, all personnel required in performing the services under this Agreement. All personnel engaged in the work shall be fully qualified and shall be authorized or permitted under State and local law to perform such services. No person who is serving sentence in a penal or correctional institution shall be employed on work under this Agreement. The Firm further certifies that all of its employees assigned to serve the City have such knowledge and experience as required to perform the duties assigned to them. Any employee of the Firm who, in the opinion of the City, is incompetent, or whose conduct becomes detrimental to the work, shall immediately be removed from association with the certain professional engineering services under this Agreement.

**IX. SUSPENSION, CANCELLATION OR ABANDONMENT**

Suspension, cancellation or abandonment of this Agreement shall be necessitated if any of the following occur: disclosure of City confidential information, procedures or activities; failure of the Firm to aggressively,

adequately, timely and appropriately perform the services required by this Agreement to the satisfaction of the City, or other similar cause.

In the event the Project is suspended, cancelled or abandoned at the City's sole discretion, the Firm shall be given fifteen (15) days prior written notice of such action and shall be compensated for the professional services provided and reimbursable expenses incurred up to the date of suspension, cancellation or abandonment in an amount mutually agreed to by the City and Firm and supported by back-up documentation.

Upon suspension, cancellation or abandonment of the Project by the City, the Firm shall immediately cease work, deliver all original sketches, tracings, drawings, computations, details, design calculations, specifications and other documents and plans that result from the Firm's services under this Agreement, and shall be compensated for its services rendered up to the time of such suspension, cancellation or abandonment on a quantum meruit basis; and the City shall have no further financial obligation to the Firm.

## **X. TERMINATION**

### **A. Termination for Cause.**

In the event that the Firm shall for any reason or through any cause not have completed performance within the time fixed for performance under this Agreement; or any representation or warranty made under Article XII of this Agreement shall prove to be untrue in any material respect; or the Firm shall otherwise be in default under this Agreement; or the Firm has subcontracted, assigned, delegated, transferred its rights, obligations or interests under this Agreement without the City's consent or approval; or the Firm has filed bankruptcy, become insolvent or made an assignment for the benefit of creditors, or a receiver, or similar officer has been appointed to take charge of all or part of Firm assets; or the Firm disclosed City confidential information, procedures or activities; or the Firm fails to aggressively, adequately, timely and appropriately perform the services required by this Agreement to the satisfaction of the City, or other similar cause.

Then the City may provide five (5) days written notice that the conduct of the Firm is such that the interests of the City are likely to be impaired or prejudiced, stating the facts upon which the opinion is based. Then the City may upon fifteen (15) days written notice, and at the end of the (15) days terminate this Agreement for cause (herein "Termination Date"). Upon that termination for cause, the Firm shall be entitled to compensation for services properly and satisfactorily performed through the date of such termination for cause. However, no allowance shall be included for termination expenses. In the event of such termination for cause, the Firm shall be entitled to receive just and equitable compensation for any satisfactory work performed as of the Termination Date; however, Firm shall not be compensated for any anticipatory profits that have not been earned as of the date of the Termination Date. All work accomplished by Firm prior to the Termination Date shall be documented. In the event the project is terminated for cause pursuant to this Article, the Firm shall deliver all original sketches, tracings, drawings, computations, details, design calculations, specifications and other documents and plans that result from the Firm's services under this Agreement. The aforementioned original sketches, tracings, drawings, computations, details, design calculations, specifications and other documents and plans shall be without restriction on future use by the City. Notwithstanding the above or any section herein to the contrary, Firm shall not be relieved of liability to the City for damages sustained by the City by virtue of any breach of the Contract by Firm.

### **B. Termination for Convenience.**

The City may reduce the scope of work or terminate work under this Agreement or amendment to this Agreement without cause; in the event of such scope reduction or termination other than for cause, the City shall compensate the Firm for services properly performed through the date of such reduction in scope or termination, which date shall be fixed in written notice from the City and which date shall be not sooner than fifteen (15) days after notice. Notwithstanding such termination or reduction in scope, the City shall be entitled to receive from the Firm upon request any and all information related to the Project and the City shall preserve and protect all such information and assure ready access thereto by the Firm in connection with resolution of the amount due to the Firm. The City, at its own discretion, shall be entitled to direct the Firm to terminate any or all the Firm's subcontracts or subconsulting agreements. In the event the project is terminated for convenience pursuant to this Article, the Firm shall deliver all original sketches, tracings, drawings, computations, details, design calculations,

specifications and other documents and plans that result from the Firm's services under this Agreement. The aforementioned original sketches, tracings, drawings, computations, details, design calculations, specifications and other documents and plans shall be without restriction on future use by the City.

**XI. INSURANCE**

The Firm, at its own cost and expense, shall effect and maintain at all times during the life of this Agreement insurance, in accordance with that indicated in **Exhibit C**.

**XII. INTERESTS OF MEMBERS OF THE CITY**

No member of the governing body of the City and no other officer, employee, or agent of the City who exercise any functions or responsibilities in connection with the carrying out of the Project to which this Agreement pertains shall have any personal interest, direct or indirect, in this Agreement.

**XIII. INTEREST OF THE FIRM**

The Firm covenants that it presently has no interest and shall not acquire any interest, direct or indirect, in any project to which this Agreement pertains or any other interest which would conflict in any manner or degree with its performance of any contracted service hereunder. The Firm further covenants that in the performance of this Agreement no person having such interest shall be employed.

The Firm warrants that he or she has not employed or retained any company or person, other than a bona fide employee working solely for the Firm to solicit or secure this Agreement and that he or she has not paid or agreed to pay any person, company, corporation, individual, or Firm, other than a bona fide employee working solely for the Firm any fee, commission, percentage, gift, or other consideration contingent upon or resulting from the award or making of this Agreement.

The Firm shall disclose any clients that may either conflict with or affect its independent judgment when performing any work for the City of Tampa covered by this Agreement. Failure of the Firm to disclose the above professional conflict of interest may result in termination of this Agreement and may require the return of all payments, if any, made to the Firm from the City. If, in its sole discretion, the City of Tampa determines that a professional conflict of interest is deemed to exist, the Firm shall be in default of this Agreement.

**XIV. COMPLIANCE WITH LAWS**

A. The Firm shall comply with the applicable requirements of State laws and all Ordinances of the City of Tampa as amended from time to time.

B. If the Project involves E.P.A. Grant eligible work, the City and the Firm agree that the provisions of 40 CFR, Part 35, Appendix C-1, shall become a part of this Agreement and that such provisions shall supersede any conflicting provisions of this Agreement for work performed.

C. If the Project involves work under other Federal or State Grantors or Approving Agencies, the City and the Firm shall review and approve the applicable required provisions or any other supplemental provisions as may be included in the Agreement.

D. The Firm shall assist the City in complying with all applicable terms and conditions of the government grants under Title XIII, Subchapter C, Part I of the Omnibus Budget Reconciliation Act of 1993 (26 U.S.C. 1391, et seq.) and under Title I of the Housing and Community Development Act of 1974 (PL 93-383), 24 CFR Part 570 *et seq.*

E. The Firm agrees to comply with the requirements of the Secretary of Labor in accordance with the Davis-Bacon Act as amended, the provisions of Contract Work Hours and Safety Standards Act (40 U.S.C. 327 *et seq.*) and all other applicable Federal, state and local laws and regulations pertaining to labor standard insofar as those acts apply to the performance of this Agreement.

F. Truth-In-Negotiation Certification: The Firm certifies that the wage rates and other factual unit costs supporting the compensation are accurate, complete, and current at the time of the execution of the Agreement of which this Certificate is a part. The original price and any additions thereto shall be adjusted to exclude any significant sums by which the City determines the Agreement amount was increased due to inaccurate, incomplete, or non-current wage rates and other factual unit costs and that such original Agreement adjustments shall be made within one (1) year following the end of the Agreement.

**XV. ASSIGNABILITY**

The Firm shall not assign or transfer any interest in this Agreement without consent from the City; provided, however, that the claim for money due or to become due the Firm from the City under this Agreement may be assigned to a bank or other financial institution or to a Trustee in Bankruptcy. Notice of any such assignment shall be furnished promptly to the City.

**XVI. EQUAL EMPLOYMENT**

During the performance of this Agreement or any related Work Order, the Firm shall:

A. Not discriminate against any employee or applicant for employment because of race, color, religion, age, sex, handicap, or national origin. The Firm shall take affirmative action to ensure that applicants are employed and that employees are treated during employment without regard to their race, color, religion, age, sex, handicap, or national origin. Such action shall include, but not be limited to the following: Employment, upgrading, demotion, or transfer; recruitment advertising; layoff or termination; rates of pay or other forms of compensation; and selection for training, including apprenticeship. The Firm shall post in conspicuous places, available to employees and applicants for employment, notices to be provided setting forth the provisions of this nondiscrimination clause.

B. In all solicitations or advertisements for employees placed by or on behalf of the Firm, it must state that all qualified applicants will receive considerations for employment without regard to race, color, religion, age, sex, handicap, or national origin.

**XVII. EQUAL BUSINESS OPPORTUNITY PROGRAM**

A. See **Exhibit D** for Tampa's Equal Business Opportunity Program Procedures.

B. The Firm shall demonstrate good faith effort toward the utilization of City of Tampa Certified Women/Minority Business subcontractors, subFirms or suppliers.

C. The City shall make available a list of Certified Women/Minority Enterprises.

D. The Firm shall report to the City its subcontractors/subFirms/suppliers solicited or utilized as required by **Exhibit D**.

E. At the time of the submission of invoices, the Firm shall submit to the City a report (Exhibit D) of all subcontractors, subFirms or suppliers utilized with their final contract amounts and any other reports or forms as may be required by the City.

**XVIII. CODE OF ETHICS**

In connection with this Agreement, the Firm hereby covenants and agrees that it shall comply with all applicable government laws, statutes, rules and regulations including, without limitation, the City of Tampa's Code of Ethics. Pursuant to Section 2-522 of the City of Tampa Code, the Firm acknowledges that if it fails to comply with the City of Tampa's Code of Ethics, such a failure shall render this Agreement voidable by the City and subject the Firm to debarment from any future City contracts or agreements.

**XIX. NEGATION OF AGENT OR EMPLOYEE STATUS**

Firm shall perform this Agreement as an independent Firm and nothing contained herein shall in any way be construed to constitute Firm or the assistants of Firm to be representative, agent, subagent, or employee of City or any political subdivision of the State of Florida. Firm certifies Firm's understanding that City is not required to withhold any federal income tax, social security tax, state and local tax, to secure worker's compensation insurance or employer's liability insurance of any kind or to take any other action with respect to the insurance or taxes of Firm and assistants of Firm.

In no event and under no circumstances shall any provision of this Agreement make City or any political subdivision of the State of Florida liable to any person or entity that contracts with or that provides goods or services to Firm in connection with the Services the Firm has agreed to perform hereunder or otherwise, or for any debts or claims of any nature accruing to any person or entity against Firm; and there is no contractual relationship, either express or implied, between City or any political subdivision of the State of Florida any person or any political subdivision of the State of Florida any person or entity supplying any work, labor, services, goods or materials to Firm as a result of the provisions of the Services provided by Firm hereunder or otherwise.

**XX. SEVERABILITY**

If any item or provision to this Agreement is held invalid or unenforceable by a court of competent jurisdiction, the remainder of the Agreement shall not be affected and every other term and provision of this Agreement shall be deemed valid and enforceable to the extent permitted by law.

**XXI. CHOICE OF LAW**

The laws of the State of Florida (without giving effect to its conflicts of law principles) govern all matters arising out of or relating to this Agreement, including, without limitation, its interpretation, construction, performance and enforcement.

**XXII. DESIGNATION OF FORUM**

Any party bringing a legal action or proceeding against any other party arising out of or relating to this Agreement may bring the legal action or proceeding in the United States District Court for the Middle District of Florida, Tampa Division or in any court of the State of Florida sitting in Tampa.

**XXIII. AUTHORIZATION**

Each party represents to the other that such has authority under all applicable laws to enter into an agreement containing each covenants and provisions as are contained herein, that all of the procedural requirements imposed by law upon each party for the approval and authorization of this Agreement have been properly completed, and that the persons who have executed the Agreement on behalf of each party are authorized and empowered to execute said Agreement.

**XXIV. ENTIRE AGREEMENT**

This Agreement sets forth the entire agreement between the parties and there are no promises or understandings other than those stated herein. Exhibits to this Agreement shall be deemed to be incorporated by reference as though set forth in full herein. In the event of a conflict or inconsistency between this Agreement and the provisions in the incorporated Exhibits, and unless otherwise specified herein, then this Agreement will prevail.

**XXV. INDEMNIFICATION**

To the fullest extent permitted by law, Firm shall indemnify and hold harmless City from liabilities, damages, losses and costs, including reasonable attorney's fees, to the extent caused by the negligence, recklessness, or intentional wrongful misconduct of the Firm and persons employed or utilized by Firm in its performance hereunder. The Firm shall not be required to defend, indemnify or hold harmless the City for any acts, omissions, or negligence of the City, the City's employees, agents, or separate contractors.

**XXVI. ESTOPPEL/WAIVER**

No waiver of any provisions of this Agreement shall be effective unless it is in writing, signed by the party against whom it is asserted and any such waiver shall only be applicable to the specific instance in which it relates and shall not be deemed to be a continuing waiver.

The failure of the City to enforce any term or condition of this Agreement shall not constitute a waiver or estoppel of any subsequent violation of this Agreement.

**XXVII. AUDIT REQUIREMENTS.**

In the event, that during the period of this Agreement, the Firm expends more than \$750,000 in federal funds in an operating year from this and other federal grants, the Firm shall, at its own cost and expense, cause to be carried out an independent audit. The audit shall be completed and a copy furnished to the City, within the earlier of thirty (30) calendar days after receipt of the auditor's report(s) or nine (9) months after the end of the audit period, unless a longer period is agreed to in advance by the City. For purposes of this Agreement, an operating and/or audit year is the equivalent to the Firm's fiscal year. The determination of when Grant Funds are expended is based on when the activity related to the expenditure occurs.

The audit shall be conducted in compliance with the Office of Management and Budget: Part 200 Uniform Administrative Requirements, Cost Principles, and Audit Requirements for Federal Awards, as applicable, which are made a part of this Agreement by reference thereto. In the event the audit shows that the entire funds disbursed hereunder, or any portion thereof, were not expended in accordance with the conditions of this Agreement, the Firm shall be held liable for reimbursement to the City of all funds not expended in accordance with these applicable regulations and Agreement provisions within thirty (30) calendar days after the City has notified the Firm of such non-compliance. Said reimbursement shall not preclude the City from taking any other action as provided herein.

If expenditure does not exceed \$750,000 during an operating year, the Firm shall provide the City with its annual financial statement within ninety (90) days of the end of its operating year. Said financial statement shall be prepared by an actively licensed certified public accountant.

State Single Audit: Each nonstate entity shall comply with all applicable requirements of section 215.97, F.S., and Audit Requirements. A State single audit is required if a nonstate entity expends \$750,000 or more of State financial assistance in any fiscal year of such nonstate entity in accordance with the requirements of the Florida Single Audit Act.

**XXVIII. DEFAULT**

In accordance with 24 CFR 85.43, a default shall consist of any use of Grant Funds for a purpose other than as authorized by this Agreement, noncompliance with any provision in all Articles herein, any material breach of the Agreement, failure to comply with the audit requirements as provided herein, or failure to expend Grant Funds in a timely or proper manner. A cancellation for default pursuant to this Article shall not impair or limit the City's remedy for the Firm's breach of warranty to the extent of work performed, not for errors or omissions in the professional engineering services prior to cancellation.

**XXIX. BUDGET APPROPRIATIONS**

The City is subject to Section 1666.241, Florida Statutes, and is not authorized to contract for expenditures in any fiscal year except in pursuance of budgeted appropriations. With respect to this Agreement, the City has budgeted and appropriated sufficient monies to fund the City's obligations under this Agreement. The obligations of the City hereunder shall not constitute a general indebtedness of the City within the meaning of the Florida Constitution.



**XXX. SCRUTINIZED COMPANIES**

Section 287.135, Florida Statutes, prohibits agencies or local governmental entities from contracting with companies for (i) goods or services of any amount with companies that are on either the Scrutinized Companies that Boycott Israel List, created pursuant to Section 215.4725, Florida Statutes, or are/is engaged in a boycott of Israel, and (ii) goods or services of \$1,000,000 or more with companies that are on either the Scrutinized Companies with Activities in Sudan List or the Scrutinized Companies with Activities in the Iran Petroleum Energy Sector List, created pursuant to Section 215.473, Florida Statutes, or are/is engaged in business operations in Cuba or Syria. Specifically, Section 287.135(2), Florida Statutes, states: "A company that is on the Scrutinized Companies that Boycott Israel List or is engaged in a boycott of Israel or is engaged in business operations in Cuba or Syria is ineligible to, and may not, bid on, submit a proposal for, or enter into or renew a contract with an agency or local governmental entity for goods or services of: (a) Any amount if, at the time of bidding on, submitting a proposal for, or entering into or renewing such contract, the company is on the Scrutinized Companies that Boycott Israel List, created pursuant to s. 215.4725, or is engaged in a boycott of Israel; or (b) One million dollars or more if, at the time of bidding on, submitting a proposal for, or entering into or renewing such contract, the company: 1. Is on any amount. A company that is on either the Scrutinized Companies with Activities in Sudan List or the Scrutinized Companies with Activities in the Iran Petroleum Energy Sector List, created pursuant to s. 215.473; or 2. Is engaged in business operations in Cuba or Syria." or is engaged in business operations in Cuba or Syria is ineligible to, and may not, bid on, submit a proposal for, or enter into or renew a contract with an agency or local governmental entity for goods or services of \$1,000,000 or more. FIRM certifies that it is not in violation of Section 287.135, Florida Statutes. If the City determines the FIRM submitted a false certification, or has been placed on the Scrutinized Companies Activities in the Sudan List or the Scrutinized Companies with Activities in the Iran Petroleum Energy Sector List, or is on the Scrutinized Companies that Boycott Israel List or is engaged in a boycott of Israel or been engaged in business operations in Cuba or Syria, the City shall have the option to terminate this Agreement or maintain it subject to the conditions of Section 287.135 of the Florida Statutes.

Upon submitting its bid or proposal, a bidder/proposer: (i) certifies the company is not in violation of Section 287.135, Florida Statutes, and shall not be in violation at the time the company enters into or renews any resulting contract; and (ii) agrees any such resulting contract shall be deemed to contain a provision that allows the City, at its option, to terminate such contract for cause if the company is found to have submitted a false certification, been placed on one or any of the foregoing Lists, been engaged in a boycott of Israel, or been engaged in business operations in Cuba or Syria.

**XXXI. PUBLIC RECORDS**

A. Exempt Plans. FIRM pursuant to this Agreement (and as part of the solicitation process that resulted in award of this Agreement) may hold, come into possession of, and/or generate certain building plans, blueprints, schematic drawings, including draft, preliminary, and final formats, which depict the internal layout and structural elements of a building, facility, or other structure owned or operated by the City or an agency (singularly or collectively "Exempt Plans"), which pursuant to Section 119.071(3), Florida Statutes, are exempt from Section 119.07(1), Florida Statutes and Section 24(a), Art. I of the Florida State Constitution. FIRM certifies it has read and is familiar the exemptions and obligations of Section 119.071(3), Florida Statutes; further that FIRM is and shall remain in compliance with same, including without limitation maintaining the exempt status of such Exempt Plans, for so long as any Exempt Plans are held by or otherwise in its possession. This section shall survive the expiration of earlier termination of this Agreement.

B. Data Collection. Pursuant to Section 119.071(5)(a)2a, Florida Statutes, social security numbers shall only be collected from FIRM by the CITY should such number be needed for identification, verification, and/or tax reporting purposes. To the extent FIRM collects an individual's social security number in the course of acting on behalf of the CITY pursuant to the terms and conditions this Agreement, FIRM shall follow the requirements of Florida's Public Records Law.

C. Access. The City of Tampa is a public agency subject to Chapter 119, Florida Statutes. In accordance with Florida Statutes, 119.0701, FIRM agrees to comply with Florida's Public Records Law, including the following:

1. FIRM shall keep and maintain public records required by the CITY to perform the services under this Agreement;

2. Upon request by the CITY, provide the CITY with copies of the requested records, having redacted records in total on in part that are exempt from disclosure by law or allow the records to be inspected or copied within a reasonable time (with provision of a copy of such records to the CITY) on the same terms and conditions that the CITY would provide the records and at a cost that does not exceed that provided in Chapter 119, Florida Statutes, or as otherwise provided by law;

3. Ensure that records, in part or in total, that are exempt or that are confidential and exempt from disclosure requirements are not disclosed except as authorized by law for the duration of the Agreement term and following completion (or earlier termination) of the Agreement if FIRM does not transfer the records to the CITY;

4. Upon completion (or earlier termination) of the Agreement, FIRM shall within 30 days after such event either transfer to the CITY, at no cost, all public records in possession of the FIRM or keep and maintain the public records in compliance with Chapter 119, Florida Statutes. If FIRM transfers all public records to the CITY upon completion (or earlier termination) of the Agreement, FIRM shall destroy any duplicate records that are exempt or confidential and exempt from public records disclosure requirements. If FIRM keeps and maintains public records upon completion (or earlier termination) of the Agreement, FIRM shall meet all applicable requirements for retaining public records. All records stored electronically must be provided to the CITY in a format that is compatible with the information technology systems of the agency.

The failure of FIRM to comply with Chapter 119, Florida Statutes, and/or the provisions set forth in this Article shall be grounds for immediate unilateral termination of the Agreement by the CITY; the CITY shall also have the option to withhold compensation due FIRM until records are received as provided herein.

**IF FIRM HAS QUESTIONS REGARDING THE APPLICATION OF CHAPTER 119, FLORIDA STATUTES, TO FIRM'S DUTY TO PROVIDE PUBLIC RECORDS RELATING TO THIS AGREEMENT, CONTACT THE CUSTODIAN OF PUBLIC RECORDS AT 813-274-8598, JIM.GREINER@TAMPAGOV.NET, AND CONTRACT ADMINISTRATION DEPARTMENT, TAMPA MUNICIPAL OFFICE BUILDING, 4TH FLOOR, 306 E. JACKSON ST. TAMPA, FLORIDA 33602.**

**XXXII. No Third-Party Beneficiaries**

This Agreement gives no rights or benefits to anyone other than City and Firm and has no third-party beneficiaries.

IN WITNESS WHEREOF, the City has caused these presents to be executed in its name by its Mayor, and attested and its official Seal to be hereunto affixed by its City Clerk, and the Firm has hereunto set its hand and Seal in TRIPLICATE, the day and year first written above.

CH2M HILL ENGINEERS, INC.

CITY OF TAMPA, FLORIDA

By: \_\_\_\_\_  
Gregory S. Fischer, Specialty Regional Director  
Authorized Officer or Individual

By: \_\_\_\_\_  
Jane Castor, Mayor (SEAL)

ATTEST:

By: \_\_\_\_\_  
Shirley Foxx-Knowles, City Clerk

Approved as to Legal Sufficiency and authorized  
by Resolution No. 201\_\_-\_\_\_\_.

\_\_\_\_\_  
Justin R. Vaske, Assistant City Attorney

## **19-C-00022 David L. Tippin Water Treatment Facility High Service Pump Station and Miscellaneous Improvements Project - Design-Build Initial Services**

### **Project Background and Description**

The David L. Tippin Water Treatment Facility (DLTWTF) was originally constructed between 1924 and 1926 with the capacity to produce 8 million gallons per day (mgd) of potable water to serve a population of about 74,000. It has expanded over the years and now produces approximately 80 mgd of potable water for customers within the Tampa Water Department (TWD) service area (population of about 620,000; 135,000 service locations). The current water use permit allows the plant to withdraw 82 mgd (average daily flow) and 120 mgd (peak flow) for treatment. The primary source of water for the plant is the Hillsborough River.

The facility uses three parallel treatment trains consisting of coagulation, flocculation, and sedimentation processes. Two trains employ conventional rapid mix, flocculation, and sedimentation; the third train uses the Actiflo® process. Ferric sulfate supplemented with a polymer is used as the coagulant. The primary disinfectant is ozone. Disinfected water is filtered through dual media bed filters before chlorine and ammonia are added for secondary disinfection.

Finished water is pumped from the clearwells by six split-case horizontal pumps and two vertical turbine pumps located at the DLTWTF. The target discharge pressure is 70 pounds per square inch (psi), which is set to maintain a minimum distribution system pressure of 40 psi. The distribution system contains three repump stations (RPS) in the DLTWTF pressure zone. The repumping stations are located relatively remote to the DLTWTF and provide the system with the ability to boost pressures during peak periods. Pumping capacity from DLTWTF combined with the capacities from the Northwest, West Tampa, and Palma Ceia RPS yield a pressure zone firm capacity of 160 mgd within the DLTWTF pressure zone.

The DLTWTF High Service Pump Station (HSPS) and Miscellaneous Improvements Project (Project) will include evaluation, design, permitting, and construction services for a new HSPS and the other miscellaneous improvements. As provided in the Scope of Service, preliminary engineering, design, permitting, and guaranteed maximum price (GMP) development services will be delivered as design-build initial services (preconstruction services) with subsequent engineering during construction, construction, and commissioning services under a mutually agreed upon GMP (or GMPs).

The purpose of this project is to eliminate or resolve the following existing issues for the HSPS, clearwell, and associated infrastructure:

- Aging pump station, piping, and infrastructure that affect reliability
- Inability to isolate existing clearwells for inspection and/or maintenance
- Hydraulic limitations between the filters and blending chamber that reduce the DLTWTF treatment capabilities
- The flow path through the clearwells is in series that inhibits water quality (WQ) and mixing
- Unreliable means to achieve contact time (CT) through the blending chamber alone and a lack of redundancy
- The lack of baffling or mixing creates dead zones and inhibits WQ
- With loss of ozone treatment it is difficult to maintain CT when individual clearwells are taken out of service for maintenance or repair
- The capacity of the existing clearwells cannot be fully utilized because of buoyancy concerns and existing pump suction cavitation

- Chemical use for dechlorinating backwash water
- Cleaning the inside of the clearwells requires divers
- Layout does not facilitate future growth

A list of the major facilities and improvements are described further herein. At a minimum, all components will be designed and constructed for a maximum daily rated capacity of 140 mgd.

1. **New Chlorine Contact Chamber (CCC) and Influent Structure:** A new concrete influent junction structure will intercept the two existing influent pipes to the Hawkey Box and be constructed adjacent to the northwest corner of the 7.5 million gallon (MG) Clearwell. The existing 42-inch effluent filter line will also be diverted to this box and an additional pipe for future expansion of the filters will be provided. Chlorine will be mixed via hydraulic jets or an open channel hydraulic mixer and the structure will have the capability of allowing either box culvert to act as a redundant CCC. One duty and one standby jet pump will be located on a pad near to or on the CCC influent structure if jet mixing is used. Each precast concrete box culvert will be sized to provide the required 2-minute virus inactivation CT to meet the Florida Department of Environment Protection (FDEP) Bird Rule at 140 mgd. The CCC will be designed to serve as the primary disinfection (for virus and giardia) in the event that the ozonation process is down. Use of the CCC as primary disinfection will not be the normal operating procedure. Gates will be added to provide isolation, operational flexibility, and allow one box culvert and chemical injection chamber to be taken offline for maintenance.
2. **Relocated Backwash Pumps and Flow Control Piping:** The two existing vertical turbine filter backwash water pumps currently located in the west 5 MG and 7.5 MG clearwells will be relocated to the CCC influent structure prior to the location chlorine will be injected, with an option for additional operational flexibility to use chlorinated backwash water as needed. The existing backwash underground and above grade piping, control valves, flowmeter, concrete pad, appurtenances, and controls will be demolished. New infrastructure will be provided in a new location where it does not conflict with the new CCC and influent and effluent structures. Temporary provisions will be made so that the new infrastructure can connect to the existing pumps in their current location before the existing backwash pumps are relocated to the new CCC influent structure.
3. **New CCC Effluent Structure:** A new concrete effluent junction structure will be constructed at the end of the new CCC box culverts and adjacent to the clearwells. Caustic and ammonia will be mixed via hydraulic jets or an open channel hydraulic mixer and the structure will have the capability of allowing either box culvert to act as a redundant CCC. One duty and one standby jet pump will be located on a pad near to or on the CCC effluent structure if jet mixing is used. Gates will be added to provide isolation, operational flexibility, and to allow one box culvert and chemical injection chamber to be taken offline for maintenance. A pipe will be provided for connection to future clearwells. Gates will also be provided so that the west 5 MG clearwell, the new center clearwell, and the future clearwell can all be directly fed.
4. **Hawkey Box and Blending Chamber Modifications:** The existing Hawkey Box and blending chamber will be modified to remove all existing chemical injection and mixing components as well as the baffle walls so that the headloss through the structures is minimized and the City can take credit for their storage volumes (approximately 0.5 MG). Interior surfaces will be inspected and rehab proposed if required during the construction phase. Fees for these services will be included in the GMP if requested.
5. **Clearwell Modifications and Improvements:** The existing three clearwells will be modified with the addition of gates so that each can be fed directly after the CCC, and so that each can feed the new center clearwell and the new HSPS. WQ improvements inside the clearwells via the use of baffles and or mixers will be evaluated and designed. Other improvements will include access modifications, professional sampling stations, and other minor changes or additional features. Interior surfaces will be inspected and rehab proposed if required during the construction phase. Fees for these services will be included in the GMP, if requested.
6. **New Center Clearwell:** A new center clearwell design will provide approximately 1 MG of additional storage, which will occupy the existing 25-foot space between the existing three clearwells (east and west 5 MG and 7.5 MG) for their entire lengths. This new clearwell will be constructed with a new concrete mat foundation between the existing clearwell mat foundation slabs. Piles to resist uplift

pressures on the slab will be designed. New concrete walls at the west and east ends of the new clearwell and between the east 5 MG and 7.5 MG clearwells will be provided. The existing walls of the east 5 MG, west 5 MG, and 7.5 MG clearwells are assumed to be adequate to handle the new hydrostatic and gravity loads. Therefore, new walls are not anticipated. A new concrete top slab at or below grade level and access into this clearwell and connection to the new HSPS will be provided.

7. **New Center Clearwell Sump Structure and Sump Pumps:** A new concrete sump structure will be provided inside the new center clearwell and adjacent to and deeper than the 7.5 MG clearwell. A gate will be located on the 7.5 MG clearwell wall and on the sump structure wall. This first sump structure along with either a permanent or removable submersible pump on rails and permanent discharge piping will allow the 7.5 MG clearwell to be completely drained into the center clearwell. A second new concrete sump structure with a center divider wall will be provided inside the new center clearwell. This second sump structure will be located at the south end just before the new HSPS and adjacent to and deeper than 7.5 MG clearwell. Gates will be provided into the new center clearwell and on the east and west 5 MG clearwell walls. This second sump structure along with either permanent or removable submersible pumps on rails and permanent discharge piping will allow either the east 5 MG clearwell, the west 5 MG clearwell, or the center clearwell to be to be drained into the HSPS. This second sump structure and the gates will also hydraulically connect the east and west 5 MG clearwells to the HSPS. The sumps will allow each existing clearwell and the new center clearwell to be drained so that each can be isolated for inspection and or maintenance.
8. **New HSPS:** In the new HSPS, five duty pumps plus one standby vertical turbine pump with open top cans in a common wetwell to deliver a minimum firm capacity of 167 mgd will be provided. A seventh open top can and space in the pump room will be provided for a future additional pump. The wetwell will have one divider wall with a gate sized appropriately to allow three pumps to be taken offline and the wetwell serviced. The wetwell will also be directly connected to the west 5 MG clearwell and the new center clearwell via gates that are adequately sized for their flow conditions. A pipe with isolation gate will be provided to connect the wetwell to future clearwells. It is anticipated that there will be three (3) duty variable frequency drives (VFD) pumps and one (1) redundant VFD pump. The exact number of VFD pumps will be determined during design based on the system conditions and the pumps selected. The pump room will be conditioned space and include an enclosed room dedicated to the sampling and monitoring stations. Other required sampling and monitoring stations will be included near the clearwells and as coordinated with the City. For pump removal, the pump station will include removable skylights or hatches above each pump and future pump— other (alternate) means of pump removal will also be considered during design.. The building will be equipped with a monorail to remove the ball valve on each pump discharge line. Valves, flowmeters, and other instrumentation will be located above grade and accessible. Architecture will match existing facilities and provide adequate access into and around the facility.
9. **Electrical Switchgear Building Modifications:** The VFD and transformer rooms in the existing Electrical Switchgear Building will be modified to accommodate the new HSPS Motor Control Centers (MCCs) and proposed VFDs. The building will be modified to provide conditioned space in the former transformer room and provide the appropriate access for operations and maintenance. Modifications will include a new roof to replace the existing roofing if it is deemed necessary. Corresponding VFDs will be connected to liquid cooled transformers located outside the Electrical Switchgear Building. All new pumps will be fed directly from the existing 13.2-kilovolt (kV) loop with new switches. Existing switches will be abandoned and available for future expansion, flexibility, or use.
10. **Yard Piping Modifications and Improvements:** Existing yard piping that conflicts with proposed infrastructure will be relocated. Temporary provisions will be provided during construction, prior to when the final yard piping will be installed. New yard piping and flowmeters either abovegrade on pads or belowgrade in vaults will be provided from the new HSPS to the existing pipes located along 30th Street. The CH2M HILL Engineers, Inc. (Firm) will evaluate the need and benefit for a fully or partially redundant HSPS discharge trunk line. Other miscellaneous yard piping improvements include:
  - Relocating the existing 42-inch line into the existing Hawkey Box to the new CCC influent structure
  - Temporary and permanent relocation of backwash water piping

- Small diameter chemical piping from the trench (constructed by others) to the influent and effluent CCC structures
  - Additional minor piping as needed.
11. **Utility Trench Extension:** A new approximate 1,100-foot-long multi-bay concrete utility trench with grating housing small diameter chemical, air and service water piping, electrical conduit and conductors for house power and high voltage, along with communications conduit and fiber/wires will be provided from the new HSPS to the utility trench to be constructed by others near the existing 0.5 MG and 2 MG clearwells. An additional branch will be constructed from the new trench alignment to the existing Electrical Switchgear Building. The City is evaluating options and designing the concepts for this trench under a separate contract and, as such, the Firm will not include such evaluation efforts in this contract. This contract will use the design concept to be selected through the other contract and extend it as required for this contract.
12. **Associated Site Work:** Yard, electrical, grading, driveways/parking, landscaping, and new or modified stormwater facilities are needed to implement the proposed improvements. Depending on the hydraulic uplift capacity of the clearwells, the existing stormwater pond over the 7.5 MG clearwell and or the sheet flow drainage over the tops of the clearwells to the existing concrete flume where the new HSPS will be located may be relocated and redesigned. The existing concrete flume will be modified to handle the revised design flows and layout, however, the discharge point will remain unchanged.
13. **Associated Demolition:** Demolition of the following existing components are recommended to construct the new proposed improvements. The components to be demolished include, but are not limited to:
- Existing dechlorination system for the backwash water.
  - Existing high-service pumps and associated underground and above ground piping and supports (does not include buildings).
  - Select concrete infrastructure inside the clearwells.
  - Existing backwash piping and pad.
  - Walls and infrastructure inside the Hawkey Box and blending chamber.
  - Existing piping from existing high service pumps 1 through 8 will be removed from the existing HSPSs to 30<sup>th</sup> Street and the line going through the center clearwell.
  - Select duct bank.
  - Structural, architectural, and heating, ventilation, and air-conditioning (HVAC) components and electrical and instrumentation and control (I&C) equipment inside the existing Electrical Switchgear Building.
  - Yard piping leading from the east 5 MG clearwell to the 0.5 MG and 2 MG clearwells; the 0.5 MG and 2 MG will be removed.
14. **Investigate Potential Uplift Condition of Existing Clearwells:** Existing groundwater, soil conditions, and clearwell uplift resistance will be investigated and evaluated to determine whether or not the existing structures can partially or fully resist hydrostatic uplift. The Firm will evaluate the feasibility of a free draining (requiring no pumps) dewatering system to lower the groundwater to a safe level where the structure can resist the hydrostatic uplift imposed. If such a system is feasible and required, the Firm will design the system for the existing clearwells, and additional compensation will be provided through the Allowance.
15. **Associated I&C and Electrical Improvements:** New I&C and electrical components and infrastructure needed to implement the improvements are described herein. New high-service pumps will have redundant electrical feeds.
16. **Lightning Dissipation Improvements:** Lightning protection will be provided for all new or relocated components included in this scope of services to minimize the potential impacts of lightning strikes.

## Scope of Services

- The Firm will perform services for the complete design and construction of the Project, that will include, but not be limited to the following:
- Comprehensive design services to include:
  - Development and provision complete construction documents (i.e., 11" x 17 design plans, specifications, estimates) for the proposed improvements and associated components.
- Coordinating, applying for, and obtaining regulatory permits.
- Preparing plans and estimates for construction permits to be obtained by the City through the City of Tampa Construction Services Division.
- Preconstruction services with development of GMP(s) for construction of proposed improvements and associated components.

The preconstruction phase services include the following major tasks:

- Task 1: Preliminary Design Services
  - Subtask 1.1: Project Kickoff Meeting
  - Subtask 1.2: Data Collection and Review
  - Subtask 1.3: Surveying and Subsurface Utility Engineering
  - Subtask 1.4: Geotechnical Borings, Material Testing, and Report
  - Subtask 1.5: Lead and Asbestos Testing and Report
  - Subtask 1.6: Preliminary Engineering
- Task 2: GMP No. 1 Early Work Package 90 Percent Design and GMP No. 2 Remaining Work 60 Percent Design Services
- Task 3: GMP No. 1 Early Work Package 100 Percent Design and GMP No. 2 Remaining Work 90 Percent Design Services
- Task 4: GMP No. 2 Remaining Work 100 Percent Design Services
- Task 5: Dynamic Simulation via Replica™
- Task 6: Permitting Services
- Task 7: Project Management and Controls
  - Subtask 7.1: Project Management
  - Subtask 7.2: Cost Estimating
  - Subtask 7.3: Project Controls
  - Subtask 7.4: Risk Management
  - Subtask 7.5: Scope Management
  - Subtask 7.6: Constructability Reviews
  - Subtask 7.7 Commissioning Reviews
  - Subtask 7.8 Procurement and WMBE/SLBE Coordination
  - Subtask 7.9 GMP development and Negotiation
- Meetings
- City Allowance

Two GMPs will be developed and delivered for construction activities. GMP No. 1 will include major equipment procurement, shoring and excavation at the new CCC, center clearwell, HSPS wetwell, and relocation of existing utilities that conflict with new structures and piles (if necessary) under the new center clearwell. GMP No. 2 would include all other work not included in GMP No. 1. Each GMP will be prepared and provided separately to the City for review and approval.

## **Task 1: Preliminary Design Services**

### **Subtask 1.1: Project Kickoff Meeting**

Within 10 working days from the Notice to Proceed (NTP), the Firm will lead a project kickoff meeting at either a City location or the Firm's office to discuss the project objectives, preconstruction design services, phasing, scope, design criteria, schedule and to establish the lines of communication.

#### **Deliverables**

The following deliverables will be submitted to the City as part of this task:

- Meeting minutes provided within 2 working days of meeting end.

#### **Meetings**

The following meetings are included as part of this task:

- The project kickoff meeting will be attended by up to 9 of the Firm's staff (Project Manager (PM), Design Manager (DM), Engineering Manager (EM), Preconstruction Manager, Construction Manager (CM), WMBE/SLBE Coordinator, Process Lead, Process Mechanical Lead, and Pump Station Expert) as well as geotechnical, architectural, quality assurance (QA), and surveying representatives. The project kickoff is expected to be an 8-hour meeting.

### **Subtask 1.2: Data Collection and Review**

The Firm will provide the City with a list of requested documents and once received will review them and report any findings that affect the design, permitting, or construction of the proposed improvements to the City. The City will provide available TWD as-built drawings and related historical documentation for existing equipment and locations, as related to the selected improvements and associated components, respectively. This documentation may include, but will not be limited to, recent and historical aerial photographs, geotechnical data and reports, as-builts, specifications and design standards, operation and maintenance manuals, and surveys.

#### **Deliverables**

The following deliverables will be submitted to the City as part of this task:

- Correspondence requesting the information needed and any findings that impact the design, permitting, or construction.

#### **Assumptions**

The following assumptions are included as part of this task:

- The City will provide available information that is needed to understand existing site conditions and work previously constructed onsite that may be needed to support the design, permitting, and construction of proposed improvements in a timely manner (no more than 2 weeks after the request is made).
- The Firm will reasonably rely upon the accuracy, timeliness, and completeness of the information provided by the City. It is understood that City records provided are representations of historical events only and are not intended to be absolute documentation of existing conditions at the site.



### **Subtask 1.3: Surveying and Subsurface Utility Engineering**

Firm will obtain existing utility and site record drawings for the project, determine the property boundary on the east, west, and south DLTWTF property limits, prepare a topographic survey for approximately 33 acres on the DLTWTF site, locate all trees greater than 4 inches in caliper diameter, and locate all easements. Data will be included in Florida State Plane Coordinate System for integration into AutoCAD to facilitate geographic information system data and also included in a base map showing located data and vertical information. The horizontal datum used will be North American Datum of 83 and the vertical datum will be North American Vertical Datum of 1988. In addition, subsurface utility engineering will be performed to more accurately locate underground existing utilities via the use of ground-penetrating radar (GPR) and vacuum excavations.

#### **Deliverables**

The following deliverables will be submitted to the City by the Firm.

- Hard copy signed and sealed and digital copy of the survey and surveyor's report along with their field notes.
- Survey in the version of AutoCAD Civil3D as requested by the City.
- Sketch showing location, depth, size, and item description for items located via GPR and vacuum excavations.

#### **Assumptions**

The following assumptions are included as part of this task:

- The City will provide any previously performed and available survey and identify any known benchmarks prior to the Firm conducting survey activities.
- Twelve days of GPR locate services and 15 days of vacuum excavation, which equates to approximately 45 to 60 of vacuum excavations depending on location and depth.
- No wetlands are expected and thus no wetland delineations are included in this scope of services.

### **Subtask 1.4: Geotechnical Borings, Material Testing, and Report**

Upon completion of the preliminary geotechnical evaluation in Subtask 1.2, the Firm will perform a subsurface exploration program to support the design and future construction of the proposed improvements. The geotechnical exploration program will include the following:

- Performing up to three 30-foot deep, seven 50-foot deep, and two 75-foot deep soil borings, including standard penetration test (SPT) sampling and undisturbed soil sampling. Performing up to six 5-foot-long rock cores. and collecting up to two Shelby tube samples for one-dimension consolidation testing.
- Installing up to 8 piezometers to monitor, periodically throughout the design phase and construction, the groundwater level and estimate seasonal high groundwater table. It is anticipated the piezometers will be installed to a depth of 5 to 10 feet below the water table or at a depth of approximately 15 to 20 feet belowgrade.
- Performing up to 12 permeability tests and two double ring infiltration tests to determine hydraulic conductivity of the soils. It is anticipated the permeability tests will be performed at a depth between 10 to 30 feet belowgrade and the double ring infiltration tests will be performed at a depth of 1 to 4 feet belowgrade.
- Perform soil and rock laboratory tests to support proper soil classification, and determine soil and rock engineering parameters.

The Firm will perform testing and produce a geotechnical investigation report to document the exploration program, findings, and recommendations.

In addition, concrete sampling and testing will be conducted on the existing clearwells. Two concrete cores will be obtained from each of the existing clearwells. One core from each clearwell will be tested for compressive strength and the other core will be tested for chloride content. Concrete cores will be taken from the sidewalls of the clearwells and will be repaired with grout.

#### **Deliverables**

The following deliverables will be submitted to the City as part of this task:

- A draft and final geotechnical report in pdf format.

#### **Assumptions**

The following assumptions are included as part of this task:

- The City will provide any previously performed and available geotechnical investigation reports, and notify the Firm of any known utilities that may conflict with the proposed borings that are not shown in the record drawings.
- Up to 8 separate site visits by the Firm.

#### **Subtask 1.5: Lead and Asbestos Testing and Report**

The Firm will perform a lead paint and asbestos investigation on the existing, accessible components of the site with which this project will interface. The Firm has also included an estimated level of effort for divers to gather paint and lead samples, if identified and that are accessible, from each existing clearwell.

#### **Deliverables**

The following deliverables will be submitted to City as part of this task:

- Lead and asbestos draft and final report in PDF describing asbestos containing materials and lead based paint quantity estimates.

#### **Assumptions**

The following assumptions are included in this task:

- The City will make all existing facilities and clearwells accessible for inspection and retrieving samples.
- Up to a single day dive period to gather samples and up to 20 lead paint samples and 20 asbestos samples.
- The clearwells are confined spaces that will require a dive team made up of three divers.

#### **Subtask 1.6: Preliminary Engineering**

Upon completion of Tasks 1.1 and 1.2 and in parallel with Tasks 1.3 to 1.5, the Firm will proceed with preparation of a Preliminary Engineering Report (PER) to include 30 percent design drawings and the list of specification sections to gain endorsement from the City, and develop and lock in concepts before proceeding into detailed design development. The PER will be used to update the baseline estimate and develop a 30 percent project schedule and estimate. The design will include sizing all facilities, structures, and major equipment, as well as recommend equipment layout.

During this task the following major activities will be performed:

- Evaluation of alternatives for the quantity, type, and location for process monitoring instrumentation and sampling station to meet Department of Health (DOH) regulatory compliance.
- Evaluation of the existing backwash pump station, metering, and control systems to determine what components can be reused and what items require new components.

- Evaluation of post-treatment chemical injection and mixing options (i.e., jet, side stream and open channel mixing) determined through collaboration with City staff for mixing of chlorine, ammonia, and caustic in the CCC influent and effluent structures.
- Creation of a hydraulic model from the filter effluent flumes through the clearwells to the HSPS and from the HSPS to the distribution system via the use of the Firm's dynamic simulation model Replica™ (see Task 1.5 for additional WQ modeling).
- Conducting a Computational Fluid Dynamics (CFD) model study of the HSPS wetwell and center clearwell. The CFD study will be used to evaluate the hydraulic performance of the pump station intake and to optimize the geometry of the center clearwell and pump station wetwell. The results of the CFD study will be provided in a technical memo that will be used as basis for the physical model study.
- Conducting a CFD model study of the existing clearwells and new center clearwell at the normal operating range of flows and clearwell levels. CFD will be used to adjust and confirm baffle and mixing configurations most likely to minimize dead zones and improve finished WQ.
- Evaluation of the feasibility of the Firm's proposed concepts based on information gained in Tasks 1.1 to 1.5.
- Make a qualitative assessment of the structural condition of the clearwells while obtaining lead and or asbestos samples in Task 1.5 to reaffirm the findings in the Tank Inspection reports provided by the City and that the structural condition of the clearwells will allow the Firm's proposed concept to be implemented as planned. This scope of services includes up to 1 mobilization/demobilization (2 days) and a 2-day dive period to observe the structural condition of the existing clearwells.
- Upon completion of the CFD study, a physical model study will be conducted Firm to perform a final evaluation of the hydraulic performance (including vibration analysis) of the pump station wetwell, in terms of flow patterns, free and subsurface vortex activity, swirl, and velocity distribution at the pumps. Tests will be conducted on the proposed design and the model will be used to derive modifications to satisfy the acceptance criteria as specified by Hydraulic Institute Standards, ANSI/HI-9.8, 2018. Physical Modeling will start in 30 percent and finish in 60 percent design. The scope will include the following:
  - Review of the CFD modeling information
  - Initial model proposal and approval
  - Creation of physical model geometry
  - A series of tests, observations, data collection, and alternatives evaluation
  - Hosted witnessing of testing to demonstrate physical model performance and results to appropriate stakeholders
  - Supplemental testing, if required
  - Comparison to acceptance criteria
- Presentation and reporting of relevant information
- Production of a PER as outlined below that identifies all components of the current system that need to be modified in order to achieve the Project objectives
- Submission of an application for a public drinking water facility construction permit (FDEP Application Form 62-555.900(1)) in accordance with the requirements for a preliminary design report as outlined in Section 62-555 of the Florida Administrative Code. The permit package will be submitted to the Hillsborough County DOH.

The PER will include the following:

- An overall process flow diagram for the affected DLTWTF components involved with this project showing major process flow streams.

- A preliminary hydraulic profile of the gravity flow through the DLTWTF components involved with this project.
- Overall site plan and drawings with routing of onsite major piping, conceptual stormwater management facilities, and other major site civil improvements.
- Geotechnical and topographical report for the site .
- Site survey.
- Equipment list with vendor cut sheets.
- A summary of facilities and infrastructure to be demolished.
- A preliminary plan to address the management of groundwater and resistance to buoyancy of the existing clearwells and other concrete structures impacted in this scope of services.
- Three-dimensional (3D) models and 2D drawings to convey the conceptual design.
- Plan drawings for all buildings indicating space allocations and building elevations.
- Finalized design criteria to be used as the basis of design for all involved disciplines including civil geotechnical, structural, mechanical, architectural, electrical, and instrumentation, as needed.
- Preliminary process and instrumentation diagrams (P&IDs), preferred instrument and component list, and control and operating strategy narrative.
- Preliminary control block diagram defining supervisory control and data acquisition (SCADA) and networks. Basis definition of SCADA, software, and hardware requirements will be included.
- Preliminary single-line diagrams including concept for backup or alternate power sources.
- Location of major electrical duct banks.
- Outline of the sequence of construction, commissioning approach, and updated project schedule.
- A preliminary list of standard details and technical specifications for inclusion in the design package.
- QC review will be conducted prior to delivering 30 percent design documents to the City.

Upon completion of the PER a 30 percent design review workshop will be scheduled after City staff have reviewed the documents, with the following primary objectives:

- Demonstrate the resolution of issues and integration of previous comments from the kickoff meeting in Task 1.1.
- Provide a forum for the City staff to provide input on the design concepts and construction documents.
- Reach consensus with the City staff on the 30 percent design feedback comments so that design concepts can be frozen/locked and the Firm can proceed with the development of the 60 percent design documents. After this phase, major changes to the design concepts are not expected.
- Review and receive feedback on the 30 percent project estimate and schedule and determine if any value engineering is needed prior to the start of detailed design development.
- Review constructability, construction sequencing, critical tie ins and identify City constraints that could impact the sequence of construction.

### **Deliverables**

The following deliverables will be submitted to City as part of this task:

- One electronic copy (pdf) and four hard copies of the draft and final PER.
- One electronic copy (pdf) and four hard copies of the draft and final Replica™ hydraulic and WQ optimization TM.

- One electronic copy (pdf) and four hard copies of the draft and final clearwell and HSPS CFD Study Technical Memorandum.
- One electronic copy (pdf) and four hard copies of the draft and final HSPS Physical Model Report.
- One electronic copy (pdf) and four hard copies of the draft and final FDEP Construction Permit Application Package
- 30 percent design review workshop agenda.
- 30 percent workshop meeting minutes, identify impacts on the scope of services and schedule from the design review and feedback. The meeting minutes will be delivered electronically (pdf format) through email.
- One electronic copy (pdf) of the 30 percent cost estimate and schedule.
- Bi-weekly agenda and meeting summary notes of any major decisions and or action items.
- QA review comments in electronic (pdf) format.
- Written responses and intended resolutions to the 30 percent design review comments.

### **Meetings**

The following meetings are included as part of this task:

- One review workshop with the City to receive 30 percent design review comments with up to 9 of the Firm's staff attending for up to 8 hours.
- Bi-weekly (every other week) calls with the City and the Firm Management (PM, EM, and DM) and any as needed discipline lead to discuss design progress and any specific issues needing City input and direction.

### **Assumptions**

The following assumptions are included as part of this task:

- The Firm will conduct a 30 percent review workshop at a City designated facility or at the Firm's office. Up to 9 of the Firm's staff (PM, DM, EM, Preconstruction Manager, CM, WMBE/SLBE Coordinator, Process Lead, Process Mechanical Lead, and Pump Station Expert) as well as architectural and QA representatives will attend this 8-hour meeting.
- The updated schedule, risk register, estimate, and initial discussions involving the procurement plan described in Task 7 will be discussed at the 30 percent design review workshop.
- Following the 30 percent design review (Task 1.6), the major design concepts for the project will be fixed and no further alternatives/variations will be developed as part of the design.
- All City review comments will be consolidated and organized into a single Review Form developed by the Firm and approved by City so that the Firm receives clear and unified direction from the City prior to proceeding with the 60 percent design.
- Other materials such as summary tables will be prepared under the respective tasks as necessary for the 30 percent conceptual design review workshop.
- A drawing list for the project is included in Attachment A-1 (in progress).
- The Firm's inspection of the clearwells with divers is not a comprehensive condition assessment. It is intended to visually identify any obvious issues that would cause concerns with the Firm's proposed concept. The sole purpose of this inspection is to reaffirm the condition of the clearwells is as reported by the Texas Tank Services in their June 2017 inspection report, which would allow the Firm's proposed concept to be implemented as planned.
- The dive inspection scope of services includes up to 1 mobilization/demobilization (2 days) and a 2-day dive period to observe the structural condition of the existing clearwells.
- The clearwells are confined spaces that will require a dive team made up of three divers.

## **Task 2: GMP No. 1 Early Work Package 90 Percent Design and GMP No. 2 Remaining Work 60 Percent Design Services**

Once the detailed design is at 30 percent completion, and prior to the detailed design reaching 60 percent completion, it is expected that an Early Work Package would be developed to advance the construction activities onsite and improve the project schedule. The Firm's design team will work with the construction and preconstruction teams around the 30 percent milestone to develop a plan for which items are to be included into the Early Work Package and which items will be included in the remaining design package. Some items anticipated are major equipment procurement, shoring and excavation at the CCC, center clearwell, and new HSPS, relocation of existing utilities that conflict with new structures and piles (if necessary) under the new center clearwell.

The intent of this phase is to provide a more detailed view of the design concepts so that the City can provide feedback before the construction documents are produced. Under this task, the Early Work Package will be brought to an approximate 90 percent level of design and the remaining work will be brought to an approximate 60 percent design level. Two separate sets of design documents will be prepared (with common general sheets) by the Firm so that two separate GMPs can be developed and submitted. The design drawings, technical specifications, and standard details will be developed including responses and resolutions to issues raised in the 30 percent review workshop integrating mutually agreed-upon elements into the final design.

The design documents will include the following:

- Summary of work included in the Early Work Package included in GMP No. 1 versus the Remaining Work included in GMP No. 2.
- Drawings, details, and technical specifications prepared for review.
- Design models will be substantially developed and presented at the workshop to more fully define the design concepts.
- Technical specifications developed using the Firm's standard specification sections for each project component.
- Loop descriptions will be prepared in the instrumentation specification that incorporate the concepts recommended in the PER (Task 1.6).
- Detailed project construction schedule showing sequence of construction for the early work and updated activities for the remainder of the work.
- A QC review will be conducted by the Firm prior to delivering the design documents to the City.

Upon completion of the design documents and the City staff have reviewed the documents, a design review workshop will be scheduled with the following primary objectives:

- Demonstrate the resolution of issues and integration of previous comments from the 30 percent conceptual design workshop.
- Provide a forum for the City staff to provide input to the construction sequencing and document requirements.
- Reach consensus with City staff on the feedback comment responses to be integrated into the final design for the Early Work Package and the 90 percent design for the Remaining Work Package design documents.
- Review and receive feedback on the updated project estimate and schedule and determine if any value engineering is needed prior to the start of the Remaining Work Package construction documents. If needed value engineering will be performed under Subtask 7.2
- Revisit constructability, construction sequencing, critical tie ins, and City constraints that could impact the sequence of construction and adjust the construction sequencing and schedule accordingly.

## Deliverables

The following deliverables will be submitted to the City as part of this task:

- One electronic copy (pdf) and four hard copies of the 90 percent Early Work design documents to include the following:
  - Design drawings, details, and technical specifications
  - Project schedule
- One electronic copy (pdf) and four hard copies of the 60 percent Remaining Work design documents to include the following:
  - Preliminary design documents – design development (60 percent) drawings, standard details and technical specifications
  - 11" x 17" Plans and major elevations drawings
  - Finalized P&IDs
  - Single-line diagram and preliminary electrical plans
- Design review workshop agenda.
- Design review workshop meeting minutes. The meeting minutes will be delivered electronically (pdf format) through email.
- Bi-weekly agenda and meeting summary notes of any major decisions and or action items.
- QA review comments in electronic (pdf) format.
- Written responses and intended resolutions to 90 percent Early Work Package design review comments and 60 percent Remaining Work design review comments.

## Meetings

The following meeting is included as part of this task:

- One design review workshop to review both the 90 percent Early Work and 60 percent Remaining Work design documents with the City to review the design review comments with up to 8 of the Firm's staff for up to 8 hours.
- Bi-weekly (every other week) calls with the City and the Firm Management (PM, EM, and DM) and any as needed discipline lead to discuss design progress and any specific issues needing City input and direction.

## Assumptions

The following assumptions are included as part of this task:

- The City and the Firm's review comments, as well as comments from appropriate permitting agencies, will be incorporated into the subsequent phase design documents.
- The 90 percent Early Work design documents along with comments received from the City, and regulatory agencies will be the basis on GMP No. 1.
- The Firm will conduct one review workshop at a City designated facility or at the Firm's office. Up to 8 Firm staff (PM, DM, EM, Preconstruction Manager, CM, WMBE/SLBE Coordinator, Process Lead, and Process Mechanical Lead) as well as architectural and QA representatives will attend this 8-hour meeting.
- All City review comments will be consolidated and organized into a single Review Form developed by the Firm and approved by City so that the Firm receives clear and unified direction from the City prior to proceeding with the Task 3 design activities.
- No value engineering efforts are expected to occur after Task 2 has been completed. It is assumed that the City's budget is clearly defined at this point and agreement on any changes necessary to meet that budget will have been made at the conclusion of Task 2.

### **Task 3: GMP No. 1 Early Work Package 100 Percent Design and GMP No. 2 Remaining Work 90 Percent Design Services**

The Early Work Package 100 percent and Remaining Work 90 percent design drawings, standard details, and specifications will be developed including responses and resolutions to issues raised in the Task 2 review workshop integrating mutually agreed-upon elements into these design documents.

The Early Work Package 100 percent design will include the following:

- Final drawings, details and specifications required to obtain the required permits to begin Early Work activities.
- Detailed project construction schedule showing sequence of construction for the early work.

The Remaining Work 90 percent design will include the following:

- Drawings, details, commercial, and technical specifications prepared for final review.
- Design models will be further developed to show greater detail and presented at the workshop to more fully define the detailed design.
- Written responses and intended resolutions to 90 percent design review comments.
- Detailed project construction schedule showing sequence of construction for the remainder of the work.
- A QC review will be conducted by the Firm prior to delivering the Remaining Work 90 percent documents to the City.

Upon completion of the design documents and after City staff have reviewed the documents, a design review workshop will be scheduled with the following primary objectives:

- Demonstrate the resolution of issues and integration of previous comments from the Task 2 design workshop.
- Provide a forum for the City staff to provide input to the construction sequencing and document requirements.
- Reach consensus with City staff on the feedback comment responses to be integrated into the final design for the Remaining Work Package design documents.
- Confirm constructability, construction sequencing, critical tie ins, and City constraints discussed at the Task 2 review workshop and discuss other new items that could impact the sequence of construction and adjust the construction sequencing and schedule accordingly.

The Firm will conduct a preliminary Arc Flash Evaluation and Study at the DLTWTF that will include the following:

- Firm will review the latest Arc Flash evaluation performed for the DLTWTF.
- Update the most current arc flash calculations (provided by the City) for actual conditions with the projected equipment to be added under this design and submit an updated preliminary Arc Flash Study that meets the best practices of NFPA and IEEE. The City will advise whether changes are required in order to lower any Arc Flash Hazard Ratings. If required and authorized by the City, the Firm will utilize the Allowance to cover such design changes. The final Arc Flash Study using actual equipment purchased and the respective relabeling effort will be performed during construction and included in the GMP.

#### **Deliverables**

The following deliverables will be submitted to the City as part of this task:

- Written responses and intended resolutions to the 90 percent Remaining Work design review comments.



- One electronic copy (pdf) and four hard copies of the 100 percent Early Work design documents.
- One electronic copy (pdf) and four hard copies of the 90 percent Remaining Work design documents to include the following:
  - Design drawings, details, and technical specifications
  - Project schedule
- Draft and Final Preliminary Arc Flash Evaluation and Study report.
- Design review workshop agenda.
- Design review workshop meeting minutes. The meeting minutes will be delivered electronically (pdf format) through email.
- Bi-weekly agenda and meeting summary notes of any major decisions and or action items.
- QA review comments in electronic (pdf) format.

### **Meetings**

The following meeting is included as part of this task:

- One design review workshop to review the 90 percent Remaining Work design documents with the City to review the design review comments with up to 8 Firm staff for up to 8 hours.
- Bi-weekly (every other week) calls with the City and the Firm Management (PM, EM, and DM) and any as needed discipline lead to discuss design progress and any specific issues needing City input and direction.

### **Assumptions**

The following assumptions are included as part of this task:

- The City and the Firm's senior review comments, as well as comments from appropriate permitting agencies, will be incorporated into the subsequent phase design documents.
- The 90 percent Remaining Work design documents along with comments received from the City and regulatory agencies will be the basis on GMP No. 2.
- The Firm will conduct one review workshop at a City designated facility or at the Firm's office. Up to 8 Firm staff (PM, DM, EM, Preconstruction Manager, CM, WMBE/SLBE Coordinator, Process Lead, and Process Mechanical Lead) as well as architectural and QA representatives will attend this 8-hour meeting.
- All City review comments will be consolidated and organized into a single Review Form developed by the Firm and approved by City so that the Firm receives clear and unified direction from the City prior to proceeding with the Task 4 design activities.
- No specific site visits by the Firm's team are required for the Arc Flash Evaluation and Study report.
- No additional redesign efforts were added to this proposal to address issues arising from the Arc Flash Evaluation and Study. Any additional redesign will be funded from available project savings or the Allowance.

### **Task 4: GMP No. 2 Remaining Work 100 Percent Design Services**

The Remaining Work 100 percent design drawings, standard details and specifications will be developed including responses and resolutions to issues raised in the Task 3 review workshop integrating mutually agreed-upon elements into these design documents. Also, any relevant comments from regulatory agencies would be addressed, if available. The 100 percent design includes the following:

- Final drawings, details, and specifications required to obtain the required permits to construct the Remaining Work activities.

- Detailed project construction schedule showing sequence of construction.

### **Deliverables**

The following deliverables will be submitted to the City as part of this task:

- One electronic copy (pdf) and four hard copies of the 100 percent Remaining Work design documents to include the following:
- Bi-weekly agenda and meeting summary notes of any major decisions and or action items.
- Final 3D model.
- Final calculations.

### **Meetings**

The following meeting is included as part of this task:

- Bi-weekly (every other week) calls with the City and the Firm Management (PM, EM, and DM) and any as needed discipline lead to discuss design progress and any specific issues needing City input and direction.

### **Task 5: Dynamic Simulation via Replica™**

The Firm will use the Replica™ dynamic simulation model developed in Task 1.6 for basic hydraulic analysis to further optimize the DLTWTF post-treatment facilities. The model will be used to:

- Optimize hydraulic design
- Evaluate and confirm equipment selection
- Optimize control system design
- Optimize post-treatment chemical injection and finished WQ

The firm will work with the City to develop a list of boundary conditions that encompass all potential hydraulic operating scenarios within the revised clearwell configurations. These will include full operating flow ranges through all clearwells and during maintenance downtime of individual clearwells, at the full range of clearwell operating levels. The model will then test hundreds of combinations of operating parameters while modifying design components to find the optimum proposed baffling, mixing, gate, and hydraulic flow paths that will minimize overall capital and operating costs. The Replica™ model will be used, with the support of CFDs modeling, to optimize mixing and/or baffling alternatives to minimize water age within the tanks that may have an impact on treated WQ.

Using the data collected in Task 1.2 along with additional finished WQ data requested, the Firm will further develop the chemical injection and WQ modelling components of the Replica™ model. The Firm will review the existing finished WQ data and develop updated finished WQ and operating criteria with the City. The model will then allow the design team to adjust chemical dosing along with hydraulic operating scenarios to better understand the impact of changing overall flow, flow paths, inlet filtered WQ, and post-treatment chemical injection on finished WQ. The optimum hydraulic scenarios developed within this task will be used to validate finished WQ, chemical dosing requirements, and required disinfection CT.

The model will also be used to confirm and further optimize the equipment selection and control strategies developed in Task 1.6. Using the optimum pump selection, the model will be used to determine the lowest-cost control strategies and operating scenarios for the new high service pumps under the conditions outlined in the detailed hydraulic analysis.

Simulation runs will be carried out for each scenario and significant result parameters will be recorded for each. Results of the simulation scenarios will be summarized in a technical report with discussion of observations and recommendations where appropriate. The Firm will present the results to the City via a live demonstration of the Replica™ model simulating each primary operating scenario. The Firm will provide the City with a runtime version of the model that is represented in a process and instrumentation

diagram format that can be used by operators for simulating alternative operating scenarios (post-treatment chemical doses, opening and closing gates to bypass clearwells, clearwell operating levels, and pumping rates) before implementing them in the actual DLTWTF. Under a separate scope of services, the Replica™ model can be used for other facility activities and optimizations. These include:

- Using Replica™ during commissioning for control system testing and pre-tuning and during normal operations for operator training. To perform control system testing, the model will be linked to the programmable logic controller(s) to ensure all logic is performing as designed with the Replica™ model acting as the testing environment.
- Linking the Replica™ model to the Human Machine Interface software to conduct training for operators during standard operating procedures for major unit operations. This includes training material, software licenses, and a training session for an established number of scenarios.
- Expanding the post-treatment Replica™ model to optimize other water treatment facility process WQ, control, and operating costs. Other treatment process that can be modeled to provide real-time process control and feedback include existing coagulation, flocculation, sedimentation, ozone, and filtration processes, as well as proposed future treatment processes.

### **Deliverables**

The following deliverables will be submitted to the City as part of this task:

- Model Input Data Summary.
- Preliminary David L. Tippin WTF Replica™ model in runtime format.
- Simulation report with summarized results (10 to 20 pages).

### **Meetings**

The following meeting is included as part of this task:

- One site visit to coordinate with the City on finalizing model details and model delivery.

### **Assumptions**

The following assumptions are included as part of this task:

- The City will provide all available information requested via the Data Request Form.
- The information provided via the Data Request Form will serve as the basis of the Replica™ model development.

## **Task 6: Permitting Services**

The Firm will secure the following permits for facility improvements as determined necessary by local codes and ordinances:

- Southwest Florida Water Management District (SWFWMD) Environmental Resource Permit (ERP) permitting: Revisions to the DLTWTF's existing stormwater system permit or an exemption as determined by the site drainage changes is needed to construct project improvements. The Firm will participate in one pre-application meeting with the SWFWMD to identify the type of permit or exemption needed and any application requirements. Because the project is expected to be constructed in the upland areas of the DLTWTF, it is assumed that permit will be prepared on the basis that there will be no fundamental change in how stormwater is currently being managed and that there will be no new permitted discharges from the site. Also, because there are no changes to facilities at or along the river, the ERP scope will not be addressing wetland or environmental impacts. Depending upon the results of the geotechnical investigation made at the site, the ERP application will also address site dewatering permitting requirements. The Firm will prepare the appropriate application or exemption forms and follow through until the permit modification or exemption is received. The Firm will prepare the appropriate technical information describing the

stormwater management system to include as part of the permit application. One application will be prepared to address the full scope of project improvements.

- Hillsborough County Environmental Protection Commission (HCEPC): The Firm will arrange for and attend one meeting with the HCEPC to review the project, and because the project is expected to be fully located within upland areas of the DLTWTF site, request their written confirmation that the work in this scope is exempt from their permitting requirements. The Firm will prepare the appropriate request for confirmation that a permit from HCEPC is not required and follow through until the confirmation is received.
- US Army Corp of Engineers (USACE) Permits: Because no changes to DLTWTF facilities along the river are being made by this project, the need for an USACE permit is not expected for the work in this scope, however, confirmation that no USACE permit is required will be obtained by the Firm. The Firm will participate in one meeting with the USACE to confirm exemption and the Firm will then prepare a letter confirming the exemption.
- Hillsborough County Health Department: Modify existing DLTWTF operating permit related to the HS PS, clearwell, CCC, and other improvements under this scope of services. The Firm will participate in one pre-application meeting with the Hillsborough County Health Department to identify the application requirements. The Firm will prepare and submit the application using FDEP Form 62-555.900(1) Specific Permit to Construct PWS Components, and follow through until the permit modification is received. The Firm will prepare the appropriate technical information describing the treatment process and equipment changes to be included as part of the permit application. One application will be prepared to address the full scope of project improvements.
- City of Tampa Building permit: Using a phased project approach, the Firm will work with the City of Tampa Contract Administration Department and Construction Services Division to obtain a commercial building permit to construct the work scope. It is expected that two commercial permits will be needed with each permit corresponding to the final drawings, details, and specifications prepared for GMP No. 1 and GMP No. 2. The Firm will participate in one preliminary plan review meeting with a Construction Services Center Client Facilitator to discuss the project scope, permitting sequence, and identify information needed to obtain the building permit. The Firm will submit project design information, final drawings, details, and specifications to the City of Tampa Contract Administration Department for their submission of the building permit. The Firm will closely track the permit package through the review process and expedite procuring additional information as requested by the City of Tampa Contract Administration Department for use by the Construction Services Division to allow them to continue their review.
- **Deliverables**

The following deliverables will be submitted as part of this task:

- Meeting agenda and minutes for each preapplication meeting.
- SWFWMD ERP application or exemption letter (draft and final).
- HCEPC no permit required confirmation letter (draft and final).
- USACE letter to confirm exemption (draft and final).
- Hillsborough County DOH application to modify existing permit (draft and final).
- City of Tampa Construction Services application package (draft and final) for commercial permit (one package for each of two phases).
- Meeting minutes for all meetings with permitting agency staff.
- Signed and sealed design documents as deemed necessary by each regulatory agency.

**Meetings**

The following meetings are included as part of this task:

- One SWFWMD preapplication meeting with up to 1 CES and 2 Firm staff attending for up to 2 hours each.
- One HCEPC meeting.
- One USACE meeting.
- One Hillsborough County DOH meeting.
- Two City of Tampa Construction Services Division meeting with Client Facilitator.
- Up to five meetings with City of Tampa Construction Services Division during permit package review process to clarify intent of construction and/or requirements of request for additional information.
- Up to three meetings with the City dedicated to the permitting activity.. Meetings will be held at the City.

**Assumptions**

The following assumptions are included as part of this task:

- The Firm will be permitted to begin work on the Early Work Packages as shown in our project schedule attached.
- Scope of project work is fully within the property boundaries of the DLTWTF site; and permits to allow work outside of the DLTWTF property are not required.
- The Firm has included responding to one set of "Requests for Additional Information" each for SWFWMD and Hillsborough County DOH permit application. A total of ten resubmittals to the City Construction Services Division is included for responding to their plan review comments.
- The estimated fee included for each permit and the permit application fee are as follows:

Permit	Permit Application Fee	Permit Fee
SWFWMD ERP	\$1,000	None Expected
HCEPC No Permit Required Confirmation	None Expected	None Expected
No USACE Permit Confirmation	None Expected	None Expected
Hillsborough County DOH	\$1,000	None Expected
City of Tampa Building Department	By the City of Tampa	By the City of Tampa

- Only the permits listed herein are required and included in this scope of services.
- The Firm will provide drafts copies of application forms for the City review and approval. the Firm will serve as the point of contact for permitting agencies regarding their need for additional information or clarification of submitted information by the Firm.
- Permit application packages must be approved by the City prior to submittal to the regulatory agency.
- No trees are planned to be removed as part of the project. If necessary, the City will pay for all impact fees, if any, related to tree removal.
- No increase in water use is expected and thus no modifications to the Water Use Permit are anticipated or planned.
- The stormwater discharge from the site is not anticipated or planned to be modified and thus no USACE permit is required because waters of the state are not being impacted.

The upland areas of the project site have no wetlands or wetland setbacks that would require delineation by SWFWMD or EPC, or that would require impacts to be addressed in a permit application to these agencies. Should either of these agencies determine this may not be the case, or that impacts are other than de minimis, the work effort necessary to address these agency's requirements will need to be determined based on the agency's reason for there being a wetland, and the effort funded from the City's Allowance.

- Any coordination or approvals from the Fire Marshall will be done in coordination and under the review process for the City of Tampa Building permit.
- Assumes limited to no landscape improvements will be required by the City.

## **Task 7: Project Management and Controls**

### **Subtask 7.1: Project Management**

The Firm will provide project management services to meet the following goals and objectives throughout the duration and delivery of the scope of services included in this agreement:

- Support of and coordination with the City to develop and maintain the project implementation schedule and communicate project progress to project stakeholders.
- Charter, direct, coordinate, align, review, and monitor the Firm's team project execution to confirm the delivery of quality work products within budget and scheduled deliverable timeframes.

The Firm will develop and implement an internal work plan to define and establish the following project execution related matters:

- Team organization and responsibilities.
- A list of deliverables, outlines, assignments, and budgets.
- A list of available resources and previous work products.
- A senior reviewer/design team quality control matrix.
- Procedures for communication and distribution of information.
- A schedule showing the expected timing of tasks, preliminary dates for deliverables, and anticipated dates for meetings between the City staff and the Firm.

The Firm's PM will prepare, implement, monitor, and update the work plan as required throughout delivery of the work. The Firm will manage, administer, coordinate, and integrate all work of the preconstruction team as required to deliver the work within budget and on schedule. The Firm will also communicate regularly with the City PM and project stakeholders, conduct and organize meetings described in the previous tasks, and prepare and submit a summary of progress with monthly invoices.

The Firm will meet with the City to present and discuss project progress and issues approximately two times per month throughout delivery of the Preconstruction Services. Meetings outlined in Section 7 are included in the biweekly correspondence between the Firm and City. Meeting summaries will be issued as needed to document resolution of outstanding issues, decisions, and information needs.

The majority of progress meetings and other meetings identified in this scope of services will be held at City offices. The other bi-weekly meetings are intended to occur computer-based web meetings or via phone conference calls, but can occur in person as deemed necessary.

### **Deliverables**

The following deliverables will be submitted to the City as part of this task:

- Meeting agendas and meeting summaries.
- Monthly invoices and summary of progress.

## Meetings

The following meetings are included as part of this task:

- Bi-weekly (every other week) progress conference calls with the City PM and staff and the Firm's PM and any as needed to discuss preconstruction progress and any specific issues needing City input and direction.

## Subtask 7.2: Cost Estimating

The Firm will use its costing database, market outreach and the Timberline Software package to provide costing validation throughout the preconstruction phase of the project. A baseline cost estimate will be developed at the onset of the project to track projected costs throughout delivery of the project and continuously measure this against the City's budget. Progressive estimate will be provided at the following milestones:

- Baseline Estimate (4 to 5 weeks following NTP)
- 30 Percent Estimate (2 weeks following the delivery of the 30 percent review documents)
- 60 Percent Estimate (2 weeks following the delivery of the Remaining Work Package 60 percent review documents)

Once the baseline estimate is developed, the estimating team will work with the scope manager, project manager and design team to continuously provide feedback on changes tracked in the decision log that impact costs so that real-time pricing can be provided between progressive estimates. The estimating team will also work with the design team, scope manager, and project manager to provide value engineering support to help guide the Firm's team to a project scope that is within the City's identified budget. The estimating team will also work with the procurement team to assemble and deliver the GMPs described under the procurement section in Task 7.8.

## Deliverables

The following deliverables will be submitted to the City as part of this task:

- Baseline cost estimate and narrative.
- 30 percent estimate and narrative.
- 60 percent cost estimate and narrative.

## Meetings

The following meetings are included as part of this task:

- Cost estimates will be reviewed at the design workshops outlined in Tasks 1-2 above. GMPs will be reviewed during the GMP development and negotiations outlined in Task 7.9.

## Assumptions

The following assumptions are included as part of this task:

- The City will provide the Firm a clear understanding of the project scope, budget, and schedule at the kickoff meeting in Task 1.1 and understands that this is the budget and schedule the project team will be aiming to meet until the GMPs are delivered. Any changes to the scope affecting schedule and estimated costs will be communicated by the Firm and the City will either 1) authorize the change and in doing so acknowledges the represented project budget and schedule impact changes that were communicated by the Firm or 2) not authorize them and the project budget and schedule would not change.
- No progressive estimates or value engineering efforts beyond those outlined under Task 7.2 are included or budgeted.

### **Subtask 7.3: Project Controls**

The Firm will develop a Critical Path Method Project Schedule utilizing the Primavera (P6) Software package. An initial baseline for the preconstruction phase will be completely detailed to show the sequence of all activities while the construction phase will be a high-level, summary type schedule. The construction phase portion will be developed as the design evolves and will be completely detailed for each GMP delivered as it approaches the delivery of each respective GMP. Schedule updates will be prepared monthly to show progress of the work completed, status of work in progress, and the upcoming activities.

Once the baseline estimate is developed, the estimating team will work with the scope manager, PM, and design team to continuously provide feedback on changes tracked in the decision log that impact costs so that real time pricing can be provided between progressive estimates. The estimating team will also work with the procurement team to assemble and deliver the GMPs described under the procurement section in Task 7.8.

#### **Deliverables**

The following deliverables will be submitted to the City as part of this task:

- Monthly schedule updates in electronic (pdf) format.

#### **Meetings**

The following meetings are included as part of this task:

- Progressive schedule updates will be reviewed at bi-weekly progress meetings, design review workshops, and the GMP review workshops described herein.

#### **Assumptions**

The following assumptions are included as part of this task:

- The City will provide the Firm a clear understanding of the project scope, budget, and schedule at the kickoff meeting in Task 1.1 and understands that this is the budget and schedule the project team will be aiming to meet until the GMPs are delivered. Any changes to the scope affecting schedule and estimated costs will be communicated by the Firm and the City will either 1) authorize the change and in doing so acknowledges the represented project budget and schedule impact changes that were communicated by the Firm or 2) not authorize them and the project budget and schedule would not change.

### **Subtask 7.4: Risk Management**

The Firm will develop a project risk register to identify, track, minimize, manage, mitigate, and price risks and effectively respond to risk events when they occur. The risk register will be created and updated jointly with the City and the Firm team to identify potential risks to the Project. The Firm will conduct an initial risk identification meeting with the City and the Firm staff to identify potential risks. The risk register will be used to identify risks, assign responsibility and probability, quantify, and evaluate the impact of all risks on cost and schedule. The Firm will discuss, review, and update the risk register at the design review workshops prior to GMP development. The risk register will be used to develop contingencies and allowances associated with GMP package.

#### **Deliverables**

The following deliverables will be submitted to the City as part of this task:

- Risk register in electronic (pdf) format at project onset, and at the design review workshops or bi-weekly meetings noted in Tasks 1 to 4.



## Meetings

The following meetings are included as part of this task:

- The Initial Risk Identification Workshop meeting is assumed to occur via web-based meeting or conference call and will have up to two Firm staff included.
- Risk register reviews will be conducted at the design review workshops and or the bi-weekly meetings noted in Tasks 1 to 4.

## Subtask 7.5: Scope Management

The Firm will use a decision log to identify, track, and mitigate changes to the initial scope of services and incorporate any changes and their impacts into the overall project cost estimate, and schedule as the design progresses. The overall goal of scope management is to design to the budget communicated by the City.

## Deliverables

The following deliverables will be submitted to the City as part of this task:

- Decision log in electronic (pdf) format at project onset, and updated regularly and shared at bi-weekly meetings with the City noted in Tasks 1 to 4.

## Meetings

The following meetings are included as part of this task:

- Decision log discussion and reviews will be conducted at the bi-weekly meetings noted in Tasks 1 to 4.

## Assumptions

The following assumptions are included as part of this task:

- The City will provide the Firm a clear understanding of the project scope, budget, and schedule at the kickoff meeting in Task 1.1 and understands that this is the budget and schedule the project team will be aiming to meet until the GMPs are delivered. Any changes to the scope affecting schedule and estimated costs will be communicated by the Firm and the City will either 1) authorize the change and in doing so acknowledges the represented project budget and schedule impact changes that were communicated by the Firm or 2) not authorize them and the project budget and schedule would not change.

## Subtask 7.6: Constructability Reviews

The Firm construction team including strategic subcontractors will review and evaluate the design documents and project schedule prior to each review workshop outlined in Tasks 1 to 3 to confirm the design is constructible and can be constructed in a timely and cost-effective manner. Comments from the construction team will be incorporated into the design documents as the project progresses. The construction team will also review the preliminary sequence of construction and schedule approach that will be included in the PER in Task 1.6 and also subsequent project schedules and sequencing that will become the basis of the Firm GMP.

## Deliverables

The following deliverables will be submitted to the City as part of this task:

- Design review comments incorporated into the Firm's review comments noted in Tasks 1 to 3.
- Construction sequencing and project schedule included in the PER (Task 1.6) and input to the construction activities in the regularly updated project schedule.

## Meetings

The following meetings are included as part of this task:

- The Firm's Construction Manager and General Superintendent along with the preconstruction manager, project manager, and commissioning manager will lead and attend a 4-hour workshop with the City shortly after the 30 percent design deliverable to discuss construction and commissioning sequencing, constraints, and critical tie ins and shutdowns/plant interruptions.

## Subtask 7.7 Commissioning Reviews

The Firm's commissioning manager will review and evaluate the design documents and project schedule prior to each review workshop outlined in Tasks 1 to 3 to confirm it will meet the functional requirements defined by the City and plan for and optimize commissioning efforts into the design. Comments from the commissioning manager will be incorporated into the design documents as the project progresses. The commissioning manager will also develop a preliminary commissioning approach that will be included in the PER is Task 1.6 and it will also become the basis of the Firm GMP.

## Deliverables

The following deliverables will be submitted to the City as part of this task:

- Design review comments incorporated into the Firm's review comments noted in Tasks 1 to 3.
- The preliminary commissioning approach included in the PER (Task 1.6) and input to the commissioning activities in the regularly updated project schedule.

## Meetings

The following meetings are included as part of this task:

- The Firm's Commissioning Manager along with the construction manager, general superintendent, preconstruction manager, and project manager will lead and attend a 4-hour workshop with the City shortly after the 30 percent design deliverable to discuss construction and commissioning sequencing, constraints, and critical tie ins and shutdowns/plant interruptions.

## Subtask 7.8: Procurement and WMBE/SLBE Coordination

The Firm will develop a procurement plan and work packages to maximize subcontractor including WMBE and SLBE participation and meet the WMBE and SLBE goals established by the City during the bid process. This plan will be submitted to the City for their review and comment. Detailed scopes of work will be developed to minimize scope gaps and bids will be solicited and summarized into an organized bid tab for the City's review for each GMP developed. A WMBE and SLBE coordinator will work closely with the local subcontractors to communicate the project work, work packages, and conduct a workshop to gain interest in the project and maximize WMBE/SLBE participation so that the goals established by the City can be met.

## Deliverables

The following deliverables will be submitted to the City as part of this task:

- Draft and final procurement plan in electronic (pdf) format.
- GMP No. 1 – Early Work Package - Draft and final bid tabulation in electronic (pdf) format and two final hard copies. The bid tabulation will include the GMP estimate, and for each bid package a summary of bids received, the scope of services for that package along with any issued addendums, and the recommended subcontractor to be utilized by the Firm to perform the work.
- GMP No. 2 – Remaining Work Package - Draft and final bid tabulation in electronic (pdf) format and two final hard copies. The bid tabulation will include the GMP estimate, and for each bid package a

summary of bids received, the scope of services for that package along with any issued addendums and the recommended subcontractor to be utilized by the Firm to perform the work.

- Any materials utilized to advertise and communicate interest in the WMBE/SLBE workshop conducted.
- The Firm will complete the DMI forms and other documents required in Exhibit D of the agreement throughout preconstruction phase of the project.

### **Meetings**

The following meetings are included as part of this task:

- The Firm's WMBE and SLBE Coordinator will conduct a WMBE/SLBE workshop with local subcontractors to gain interest in the project, communicate scope of services, and maximize participation and the Firm chances of meeting the goals established by the City.

### **Assumptions**

The following assumptions are included as part of this task:

- Two GMPs will be developed and submitted (GMP No. 1 Early Work Package and GMP No. 2 Remaining Work).
- The City will work closely with the Firm to understand the scope of the project and work packages developed and aimed at maximizing WMBE/SLBE participation to establish a goal with the Firm that can be achieved.

### **Subtask 7.9: GMP Development and Negotiation**

The Firm will prepare two separate GMPs (GMP No. 1 Early Work Package and GMP No. 2 Remaining Work Package) based on open book competitive pricing from the market. Shortly after the 30 percent design workshop, the Firm will develop work packages and a specific procurement plan outlined in Task 7.8. The work packages will be advertised using the respective work package design documents that are developed to an approximate 90 percent design level, and a pre-bid meeting will be held at the project site. A bid date will be established for the work packages and bids will be sent directly to the Firm and the City (if requested). The Firm will evaluate all bids and compile the recommendations into a GMP Proposal that includes any assumptions and clarifications, a detailed scope and fee, a summary of how the WMBE/SLBE goals will be met, a proposed schedule and comments on the City's proposed agreement along with the bid tabulation summary described in Task 7.8. The GMP proposal will include all work to complete engineering, permitting, commissioning and construction tasks. The Firm's entire GMP proposal will be open book and transparent including estimates for all work the Firm intends to self-perform. For those construction work packages that the Firm intends to self-perform, at the City's request, the Firm can solicit competitive bids from the market for similar scope. The Firm will then schedule a meeting with the City to review the draft GMP proposal and the recommended subcontractor or vendor for each work package. Based on the City's feedback, the Firm will finalize and submit each GMP Proposal for approval.

### **Deliverables**

The following deliverables will be submitted to the City as part of this task:

- Draft and final GMP No. 1 – Early Work Package Proposal and all supporting documentation outlined in Section 7 in electronic (pdf) and two hard copies.
- Draft and final GMP No. 2 – Remaining Work Package Proposal and all supporting documentation outlined in Section 7 in electronic (pdf) format and two hard copies.
- Executed negotiated contract agreement for each GMP with completed DMI forms and other documents required in Exhibit D of this agreement for all construction phase work.

## Meetings

The following meetings are included as part of this task:

- Up to two GMP preview and negotiation workshops for each GMP submitted (4 total meetings) attended by the Firm's PM and up to three other Firm team members.

## Assumptions

The following assumptions are included as part of this task:

- Two GMPs will be developed and submitted (GMP No. 1 Early Work Package and GMP No. 2 Remaining Work).
- The City will provide the proposed construction phase services agreement to the Firm in ample time to review and negotiate terms and conditions as to not delay the proposed project schedule. The Firm will return comments within 2 weeks of receiving the said agreement.

## City Allowance

Allowance provides for additional preconstruction services related to the project not otherwise identified herein. These additional services could be the result of requests made by the City and or unforeseen circumstances. The Firm will not proceed with such services or utilize this budget amount without first submitting a representative scope and fee and receiving prior written authorization from the City's project manager. Any unused allowance shall belong to and be returned to the City at the conclusion of this contract agreement.

## General Assumptions and Clarifications

The Firm will staff the project with highly experienced team members qualified to perform the design and construction work outlined in this scope of services. Key staff members (as defined below) will have significant interaction with the City during the preconstruction phase and all revisions or changes to the identified key project staff members will be formally submitted to the City for confirmation of equivalent experience and approval.

Key Staff Member	Role
Bill Beddow	Principal in Charge
Dave Schoster	Project Manager
Niel Postlethwait	Engineering Manager
Ralph Myers	Preconstruction Manager
Joe Elarde	Lead Water Treatment Technologist
Tao Fu	Process Mechanical
Mike Fox	Construction Manager

## General Assumptions and Clarifications

The following assumptions apply to all tasks identified under this scope of services:

- The project scope and deliverables outlined herein are the basis of the schedule, fee, and level of effort provided by the Firm.
- No unsuitable or contaminated soils and or groundwater will be encountered on the project.
- No Maintenance of Traffic (MOT) or MOT design during the preconstruction phase is anticipated or planned.

- Delays beyond the control of the Firm may require an extension and corresponding fee adjustment.
- Information and data provided by the City is accurate and reliable
- No hazardous waste, asbestos, lead paint, or other types of contamination is known to be present. If present, any remediation or removal will be conducted through the Allowance as an additional service.
- The Firm has included design efforts to relocate chemical (chlorine, ammonia, fluoride and caustic) piping and dosing points to the new locations proposed in this scope of services at the CCC influent and effluent structures and also some minimal modifications to the existing control narrative to provide control of the existing chemical dosing system. However, no effort is included to make major modifications to the programming or make any design changes to the pumps or piping size. The Firm will coordinate with the City and the Firm responsible for delivering Contract 18-C-0003 so their work and our work is properly coordinated and efforts are not duplicated.
- All existing clearwells and any other existing structure and infrastructure the Firm plans to connect to with our design approach are structurally sound and in a condition that will allow the Firm to connect to or interface with so they can operate along with the new facilities for the intended useful life as determined by the Firm. This scope of services does not include a detailed condition assessment or any structural rehabilitation of the existing infrastructure. The Firm will rely on previous recent inspections and condition assessments (performed by Texas Tank Services in June 2017) and reports performed by others and provided by the City for confirmation.
- Lightning dissipation scope of services is limited to the design of lightning protection systems for the new components added under this scope of services
- No existing piping evaluations will be performed. The Firm's design will include demolishing and removing all existing above and below grade HSPS discharge piping and pumps and providing new piping from the new HSPS to the property fence line along 30 Street. Existing HSPS buildings as well as existing 0.5 MG and 2 MG Clearwells are to remain and will not be refurbished or demolished under this scope of services.
- No demolition of existing clearwells or interconnecting suction pipe, electrical, control wiring, structural components is anticipated or budgeted in these preconstruction services. This infrastructure will be abandoned in place and disconnected electrically and from a controls standpoint unless otherwise directed by the City. This includes the suction lines for high-service Pumps No. 5,6,7, and 8 from the east 5 MG clearwell. The design does include a concrete closure of the existing suction inlet going to each of these pumps inside the east 5 MG clearwell.
- The existing switchgear electrical building VFD and transformer rooms are large enough and have enough space to accommodate the assumed number (four) of new VFDs and (two new and one future) new MCCs for the new HSPS pumps and the City will accept locating their transformers outside. No additional electrical building space is assumed to be needed or included in design efforts. The existing transformer room will need to be modified and HVAC installed. It is assumed a new HVAC system for the entire building as well as new interior finishes, exterior paint, and a new roof for the entire building will be needed.
- No fire protection sprinkler systems for the new HSPS or refurbished Electrical Switchgear Building are anticipated or included.
- Soils are not corrosive. Metallic piping and appurtenances will not require cathodic protection.
- CAD drawings will be prepared using the Bentley suite of automation products including MicroStation and delivered as PDFs. One conversion of the drawings into AutoCAD will be provided at the end of 100 percent design. 3-D models used to produce construction documents will not include building information modeling (BIM) features.
- A book of standard project details will be used. Standard details will not be included into the drawings, but rather as an 8.5 by 11 separate volume. Detail presentation will be such that all text and all linetype are clear and legible to the unaided eye.
- The Firm will use its standard CSI 49-division technical specifications.

- An assumed drawing list for the project is included in Attachment A-1.
- The Firm project schedule is based upon the City and regulatory approval times shown in the project schedule included in Attachment A-2.
- No budget has been included in this agreement to cover the City's costs for attending the HSPS Physical Modeling witnessed testing.
- All project deliverables throughout the preconstruction phase will be located on a SharePoint site that the City will be able to access.
- A short circuit study related to the electrical components being added or modified under this scope of services is included.
- No work beyond the DLTWTF fence line is anticipated.
- The existing above grade backwash piping design concept provided by the City will be verified, sized for the future, and replicated.
- The City Standard Details and Specifications provided prior to the start of design (Task 1) will be used where applicable in the design documents.
- The Firm's design will incorporate necessary components, temporary facilities, and construction sequencing to maintain 24-hour operations of the treatment facility and minimize shutdowns and impacts to the components involved with this scope of services.
- The scope of services included in this design will accommodate future components as identified by the City and sized for a maximum daily rated capacity of 140 mgd. The City has expressed interest in sizing the CCC for more than 140 mgd. The Firm will evaluate the feasibility of this request and provide alternatives during Task 1.6 so the City can direct accordingly.
- Surge analysis and distribution system analysis or surge mitigation measures are not included in this scope of services. It is assumed that the City will provide a discharge pressure band (low and high) for the Firm to design.
- The need for landscape architecture is not anticipated for the improvements being made under these scope of services, however, a \$5,000 direct cost allowance has been included under Task 3 in the event they are required by a regulatory agency.
- The Firm will conduct and supervise geotechnical work and GPR/vacuum excavation efforts. Four weeks of full-time effort by one of the Firm's superintendents is included in this scope of services,.
- The City will provide all criteria and full information regarding the City's requirements for the project, including planning and design objectives and constraints, performance requirements, environmental concerns, scheduling constraints, and any budgetary limitations.
- The City will provide assistance in arranging for access to and make provisions for the Firm to enter upon public and private property as required by the Firm to perform its services.
- The City will provide timely reviews and responses to questions from the Firm that could impede the project delivery schedule.
- The City will provide consolidated review comments with unified direction to the Firm on how to proceed.
- No federal funds are being used to provide funding for this project and thus all related requirements outlined in the agreement do not apply.

## Schedule

The preconstruction contract duration from NTP until delivery of final design documents for both proposed GMPs is 12 months and 2 work days. GMP No. 2 development will take 40 work days after the submission of the respective 90 percent design package and negotiations and approvals are projected to continue 30 days beyond this. Total contract time is expected to be 13 months and 16 work days from

NTP to GMP No. 2 approval. Table A-1 shows the estimated schedule durations and activity logic for the preconstruction services included under this agreement.

**Table A-1. Schedule**

*David L. Tippin WTF Preconstruction Services*

Activity No.	Task No.	Task Name	Duration (working days)	Predecessor Activity No. or Description
A	1	Preliminary Design Services	70	NTP
B	1	Preliminary Design Review and Workshop	10	A
C	2	GMP No. 1 Early Work Package 90 Percent Design and GMP No. 2 Remaining Work 60 Percent Design Services	77	B
D	2	GMP No. 1 Early Work Package 90 Percent Design & GMP No. 2 Remaining Work 60 Percent Design Review and Workshop	10	C
E	6	GMP No. 1 Early Work Package – Permitting	35	90 Percent GMP No. 1 Early Work Package
F	7	GMP No. 1 Early Work Package – GMP development and delivery	35	90 Percent GMP No. 1 Early Work Package
G	7	GMP No. 1 Early Work Package – GMP negotiation and approval	30	F
H	3	GMP No. 1 Early Work Package 100 Percent Design & GMP No. 2 Remaining Work 90 Percent Design Services	55	D
I	3	GMP No. 1 Early Work Package 100 Percent Design & GMP No. 2 Remaining Work 90 Percent Design Review and Workshop	10	H
J	6	GMP No. 2 Remaining Work Package – Permitting	40	90 Percent GMP No. 2 Remaining Work Package
K	7	GMP No. 2 Remaining Work Package – GMP development and delivery	40	90 Percent GMP No. 2 Remaining Work Package
L	7	GMP No. 2 Remaining Work Package – GMP negotiation and approval	30	K
M	4	No. 2 Remaining Work 100 Percent Design Services	25	I
N	5	Dynamic Simulation via Replica™	Runs Parallel to Task 1-4	NTP
O	8	Allowances – Scope as determined/authorized by the City	TBD	TBD

## **Attachment A-1 Proposed Drawing List**



## ATTACHMENT A-1 Proposed Drawing List

The below drawing list is a preliminary list used to determine the design level of effort. The actual number, discipline, and titles of these drawings may change over the course of the various design stages.

Count	Discipline	Group	Drawing Title
<b>General</b>			
1	Project Automation Lead	Jacobs	Cover/Title Sheet/Location/Vicinity
2	Project Automation Lead	Jacobs	Index of Drawings
3	Project Automation Lead	Jacobs	Index of Drawings
4	Project Automation Lead	Jacobs	Abbreviations
5	Project Automation Lead	Jacobs	Abbreviations and General Legend
6	Civil/Yard Piping	Jacobs	Civil/Yard Piping Legend and Code Data
7	Civil/Yard Piping	Jacobs	Civil/Yard Piping Legend
8	Architecture	Rowe	Architectural Legend, Notes and Code Data
9	Structural	Jacobs	Structural Legends and Notes
10	Structural	Jacobs	Structural Legends and Notes
11	HVAC	Jacobs	HVAC Legend, Notes and Code Data
12	HVAC	Jacobs	HVAC Legend, Notes and Code Data
13	Plumbing	Jacobs	Plumbing Legend and Notes
14	Electrical	Jacobs	Electrical Legend
15	Electrical	Jacobs	Electrical Legend
16	Instrumentation & Controls	Jacobs	I&C Legend
17	Instrumentation & Controls	Jacobs	I&C Legend
18	Process Mechanical	Jacobs	Mechanical Legend
19	Process Mechanical	Jacobs	Mechanical Legend
20	Process Mechanical	Jacobs	Process Flow Diagram
21	Process Mechanical	Jacobs	Hydraulic Profile
<b>Demolition</b>			
22	Civil/Yard Piping	Jacobs	Overall Existing Conditions, Erosion Control and Demo Plan
23	Civil/Yard Piping	Jacobs	Existing Conditions, Erosion Control & Demo Plan - 1
24	Civil/Yard Piping	Jacobs	Existing Conditions, Erosion Control & Demo Plan - 2
25	Civil/Yard Piping	Jacobs	Existing Conditions, Erosion Control & Demo Plan - 3
26	Civil/Yard Piping	Jacobs	Existing Conditions, Erosion Control & Demo Plan - 4
27	Civil/Yard Piping	Jacobs	Yard Pipe Demo - 1
28	Civil/Yard Piping	Jacobs	Yard Pipe Demo - 2
29	Civil/Yard Piping	Jacobs	Yard Pipe Demo - 3
30	Civil/Yard Piping	Jacobs	Yard Pipe Demo - 4
31	Civil/Yard Piping	Jacobs	Yard Pipe Demo - 5
32	Structural/Mechanical	Jacobs	Structural/Mechanical East 5 MG Clearwell Demo Detail Plans
33	Structural/Mechanical	Jacobs	Structural/Mechanical West 5 MG Clearwell 4 Demo Detail Plans
34	Structural/Mechanical	Jacobs	Structural/Mechanical 7.5 MG Clearwell Demo Detail Plans
35	Structural/Mechanical	Jacobs	Structural/Mechanical Demo Hawkey Box/Mixing Channel Detail Plans
36	Structural/Mechanical	Jacobs	Structural/Mechanical Demo Existing Electrical Building Detail Plans
37	Structural/Mechanical	Jacobs	Structural/Mechanical Demo Details
38	Structural/Mechanical	Jacobs	Structural/Mechanical Demo Details
39	Structural/Mechanical	Jacobs	Structural/Mechanical Demo Details
40	Process Mechanical	Jacobs	Backwash Piping Demo
41	Process Mechanical	Jacobs	Backwash Pump Demo
42	Electrical	Jacobs	Electrical Site Demo - 1
43	Electrical	Jacobs	Electrical Site Demo - 2
44	Electrical	Jacobs	Electrical Site Demo - 3
45	Electrical	Jacobs	Electrical Site Demo - 4
46	Electrical	Jacobs	Electrical Site Demo - 5
47	Electrical	Jacobs	Electrical Building Demo

## ATTACHMENT A-1 Proposed Drawing List

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Count	Discipline	Group	Drawing Title
48	Electrical	Jacobs	Electrical Demo On-Line Diagram
<b>Construction Phasing</b>			
49	Process Mechanical	Jacobs	Phasing Plans
50	Process Mechanical	Jacobs	Phasing Plans
51	Process Mechanical	Jacobs	Phasing Plans
52	Process Mechanical	Jacobs	Phasing Details
53	Process Mechanical	Jacobs	Phasing Details
54	Process Mechanical	Jacobs	Phasing Details
<b>Civil/Site/Yard Piping</b>			
55	Civil/Yard Piping	Jacobs	Overall Site Plan
56	Civil/Yard Piping	Jacobs	Construction Staging Plan
57	Civil/Yard Piping	Jacobs	Grading and Location Plan - 1
58	Civil/Yard Piping	Jacobs	Grading and Location Plan - 2
59	Civil/Yard Piping	Jacobs	Grading and Location Plan - 3
60	Civil/Yard Piping	Jacobs	Grading and Location Plan - 4
61	Civil/Yard Piping	Jacobs	Grading and Location Plan - 5
62	Civil/Yard Piping	Jacobs	Stormwater Pond Plan & Sections
63	Civil/Yard Piping	Jacobs	Civil Sections - 1
64	Civil/Yard Piping	Jacobs	Civil Sections - 2
65	Civil/Yard Piping	Jacobs	Civil Details 1
66	Civil/Yard Piping	Jacobs	Civil Details 2
67	Civil/Yard Piping	Jacobs	Civil Details 3
68	Civil/Yard Piping	Jacobs	Yard Piping Plan - 1
69	Civil/Yard Piping	Jacobs	Yard Piping Plan - 2
70	Civil/Yard Piping	Jacobs	Yard Piping Plan - 3
71	Civil/Yard Piping	Jacobs	Yard Piping Plan - 4
72	Civil/Yard Piping	Jacobs	Yard Piping Plan - 5
73	Civil/Yard Piping	Jacobs	Enlarged Piping Plan and Sections - 1
74	Civil/Yard Piping	Jacobs	Enlarged Piping Plan and Sections - 2
75	Civil/Yard Piping	Jacobs	Enlarged Piping Plan and Sections - 3
76	Civil/Yard Piping	Jacobs	Yard Piping Standard Details
77	Civil/Yard Piping	Jacobs	Yard Piping Standard Details
78	Civil/Yard Piping	Jacobs	Yard Piping Standard Details
<b>Architecture</b>			
79	Architecture	Rowe	HSPS Life Safety Plan
80	Architecture	Rowe	HSPS Floor Plan
81	Architecture	Rowe	HSPS Finish Plan
82	Architecture	Rowe	HSPS Ceiling Plan
83	Architecture	Rowe	HSPS Roof Plan
84	Architecture	Rowe	HSPS Exterior Elevations
85	Architecture	Rowe	HSPS Bulling Sections
86	Architecture	Rowe	HSPS Wall Sections
87	Architecture	Rowe	HSPS Enlarged Plans and Interior Elevations
88	Architecture	Rowe	HSPS Details
89	Architecture	Rowe	HSPS Perspective and 3D Views
90	Architecture	Rowe	Existing Electrical Building Life Safety Plan
91	Architecture	Rowe	Existing Electrical Building Floor Plan
92	Architecture	Rowe	Existing Electrical Building Finish Plan
93	Architecture	Rowe	Existing Electrical Building Ceiling Plan

## ATTACHMENT A-1 Proposed Drawing List

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Count	Discipline	Group	Drawing Title
94	Architecture	Rowe	Existing Electrical Building Roof Plan
95	Architecture	Rowe	Existing Electrical Building Exterior Elevations
96	Architecture	Rowe	Existing Electrical Building Building Sections
97	Architecture	Rowe	Existing Electrical Building Building Enlarged Plans and Interior Elevations
98	Architecture	Rowe	Existing Electrical Building Wall Sections
99	Architecture	Rowe	Existing Electrical Building Details
100	Architecture	Rowe	Existing Electrical Building Perspective and 3D Views
101	Architecture	Rowe	Architectural Schedules
<b>Structural</b>			
102	Structural	Jacobs	Chlorine Contact Inlet Foundation Plans
103	Structural	Jacobs	Chlorine Contact Inlet Foundation Plans
104	Structural	Jacobs	Chlorine Contact Inlet Top Plans
105	Structural	Jacobs	Chlorine Contact Inlet Top Plans
106	Structural	Jacobs	Chlorine Contact Outlet Foundation Plans
107	Structural	Jacobs	Chlorine Contact Outlet Top Plans
108	Structural	Jacobs	Chlorine Contact Sections and Details
109	Structural	Jacobs	Chlorine Contact Sections and Details
110	Structural	Jacobs	Hawkey Box/Mixing Channel Foundation Plans
111	Structural	Jacobs	New Center Clearwell Channel Foundation Plans
112	Structural	Jacobs	New Center Clearwell Channel Top Plans
113	Structural	Jacobs	New Center Clearwell Channel Sections and Details
114	Structural	Jacobs	New Center Clearwell Channel Sections and Details
115	Structural	Jacobs	New Center Clearwell Channel Sections and Details
116	Structural	Jacobs	New Center Clearwell Channel Sections and Details
117	Structural	Jacobs	New Center Clearwell Channel Sections and Details
118	Structural	Jacobs	Existing East 5 MG Clearwell mods Plans
119	Structural	Jacobs	Existing West 5 MG Clearwell mods Plans
120	Structural	Jacobs	Existing 7.5 MG Clearwell mods Plans
121	Structural	Jacobs	Existing Clearwell mods Sections and Details
122	Structural	Jacobs	Existing Clearwell mods Sections and Details
123	Structural	Jacobs	Existing Clearwell mods Sections and Details
124	Structural	Jacobs	HSPS Foundation Plans and Details
125	Structural	Jacobs	HSPS intermediate Floor Plans and Details
126	Structural	Jacobs	HSPS Pump Floor Plans and Details
127	Structural	Jacobs	HSPS Roof Plans and Details
128	Structural	Jacobs	HSPS Sections and Details
129	Structural	Jacobs	HSPS Sections and Details
130	Structural	Jacobs	HSPS Sections and Details
131	Structural	Jacobs	HSPS Sections and Details
132	Structural	Jacobs	Existing Electrical Building Sections and Details
133	Structural	Jacobs	Existing Electrical Building Sections and Details
134	Structural	Jacobs	Standard Details
135	Structural	Jacobs	Standard Details
136	Structural	Jacobs	Standard Details
137	Structural	Jacobs	Standard Details
138	Structural	Jacobs	Standard Details
<b>HVAC</b>			
139	HVAC	Jacobs	HSPS Floor Plan
140	HVAC	Jacobs	HSPS Roof Plan

## ATTACHMENT A-1 Proposed Drawing List

The below drawing list is a preliminary list used to determine the design level of effort. The actual number, discipline, and titles of these drawings may change over the course of the various design stages.

Count	Discipline	Group	Drawing Title
141	HVAC	Jacobs	HSPS Sections
142	HVAC	Jacobs	HSPS Airflow diagram and sequence of operation
143	HVAC	Jacobs	Existing Electrical Building Plans
144	HVAC	Jacobs	Existing Electrical Building Sections
145	HVAC	Jacobs	Existing electrical building Airflow diagram and sequence of operation
146	HVAC	Jacobs	Schedules
147	HVAC	Jacobs	Standard Details
148	HVAC	Jacobs	Standard Details
<b>Plumbing</b>			
149	Plumbing	Jacobs	HSPS Floor Plan
150	Plumbing	Jacobs	HSPS Roof Plan
151	Plumbing	Jacobs	HSPS Sections
152	Plumbing	Jacobs	Riser diagrams
153	Plumbing	Jacobs	Standard Details
154	Plumbing	Jacobs	Standard Details
<b>Process Mechanical</b>			
155	Process Mechanical	Jacobs	Chlorine Contact Influent Bottom Plan
156	Process Mechanical	Jacobs	Chlorine Contact Influent Top Plan
157	Process Mechanical	Jacobs	Chlorine Contact Effluent Bottom Plan
158	Process Mechanical	Jacobs	Chlorine Contact Effluent Top Plan
159	Process Mechanical	Jacobs	Chlorine Process Sections and Details
160	Process Mechanical	Jacobs	Chlorine Contact Sections and Details
161	Process Mechanical	Jacobs	Chlorine Contact Sections and Details
162	Process Mechanical	Jacobs	Chlorine Contact Sections and Details
163	Process Mechanical	Jacobs	Backwash Piping and Flowmeter Assembly Plan and Details
164	Process Mechanical	Jacobs	New Center Clearwell Channel Plans
165	Process Mechanical	Jacobs	New Center Clearwell Channel Plans
166	Process Mechanical	Jacobs	New Center Clearwell Channel Plans
167	Process Mechanical	Jacobs	New Center Clearwell Channel Sections and Details
168	Process Mechanical	Jacobs	New Center Clearwell Channel Sections and Details
169	Process Mechanical	Jacobs	New Center Clearwell Channel Sections and Details
170	Process Mechanical	Jacobs	New Center Clearwell Channel Sections and Details
171	Process Mechanical	Jacobs	Existing East 5 MG Clearwell Mods Plan
172	Process Mechanical	Jacobs	Existing West 5 MG Clearwell Mods Plan
173	Process Mechanical	Jacobs	Existing 7.5 MG Clearwell Mods Plan
174	Process Mechanical	Jacobs	Existing Clearwell mods Sections and Details
175	Process Mechanical	Jacobs	Existing Clearwell mods Sections and Details
176	Process Mechanical	Jacobs	Existing Clearwell mods Sections and Details
177	Process Mechanical	Jacobs	HSPS Lower Plan
178	Process Mechanical	Jacobs	HSPS Intermediate Plan
179	Process Mechanical	Jacobs	HSPS Upper Plan
180	Process Mechanical	Jacobs	HSPS Sections and Details
181	Process Mechanical	Jacobs	HSPS Sections and Details
182	Process Mechanical	Jacobs	HSPS Sections and Details
183	Process Mechanical	Jacobs	Monitoring Stations Plans and Details
184	Process Mechanical	Jacobs	Monitoring Stations Sections and Details
185	Process Mechanical	Jacobs	Standard Details
186	Process Mechanical	Jacobs	Standard Details
187	Process Mechanical	Jacobs	Standard Details

## ATTACHMENT A-1 Proposed Drawing List

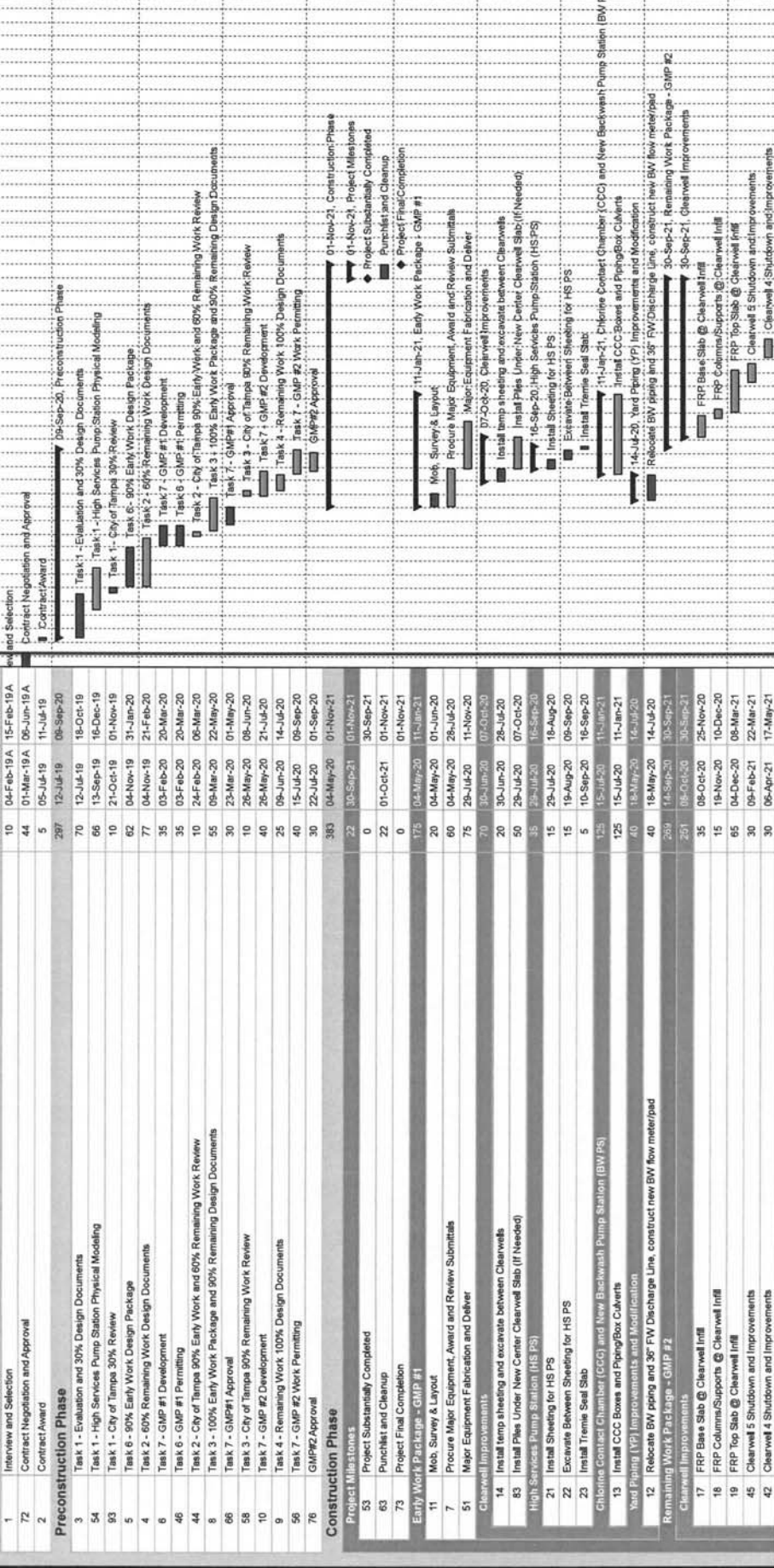
The below drawing list is a preliminary list used to determine the design level of effort. The actual number, discipline, and titles of these drawings may change over the course of the various design stages.

Count	Discipline	Group	Drawing Title
188	Process Mechanical	Jacobs	Standard Details
189	Process Mechanical	Jacobs	Standard Details
<b>Electrical</b>			
190	Electrical	Jacobs	Site Plan
191	Electrical	Jacobs	Site Plan
192	Electrical	Jacobs	Site Plan
193	Electrical	Jacobs	Site Plan
194	Electrical	Jacobs	Site Plan
195	Electrical	Jacobs	Duct Bank Sections
196	Electrical	Jacobs	Chlorine Contact Plans
197	Electrical	Jacobs	Chlorine Contact Plans
198	Electrical	Jacobs	Backwash Piping and Flowmeter Assembly Plan and Details
199	Electrical	Jacobs	Chlorine Contact Riser Diagram
200	Electrical	Jacobs	New Center Clearwell Channel Plans
201	Electrical	Jacobs	New Center Clearwell Channel Plans
202	Electrical	Jacobs	New Center Clearwell Channel Riser Diagram
203	Electrical	Jacobs	Existing East 5 MG Clearwell Mods Plan
204	Electrical	Jacobs	Existing West 5 MG Clearwell Mods Plan
205	Electrical	Jacobs	Existing 7.5 MG Clearwell Mods Plan
206	Electrical	Jacobs	Existing Clearwell Riser Diagram
207	Electrical	Jacobs	HSPS Power Plan
208	Electrical	Jacobs	HSPS Lighting Plan
209	Electrical	Jacobs	HSPS Details
210	Electrical	Jacobs	HSPS Riser Diagram
211	Electrical	Jacobs	Existing Electrical Building Plans
212	Electrical	Jacobs	Electrical Schedules
213	Electrical	Jacobs	One-line Diagrams
214	Electrical	Jacobs	One-line Diagrams
215	Electrical	Jacobs	One-line Diagrams
216	Electrical	Jacobs	One-line Diagrams
217	Electrical	Jacobs	Switch Gear Elevations
218	Electrical	Jacobs	Switch Gear Elevations
219	Electrical	Jacobs	HSPS Lightning Protection
220	Electrical	Jacobs	Existing Electrical Building Lightning Protection
221	Electrical	Jacobs	MCC Diagrams
222	Electrical	Jacobs	MCC Diagrams
223	Electrical	Jacobs	Standard Details
224	Electrical	Jacobs	Standard Details
225	Electrical	Jacobs	Standard Details
226	Electrical	Jacobs	Standard Details
<b>Instrumentation and Control</b>			
227	Instrumentation & Controls	Jacobs	Chlorine P&ID Revisions
228	Instrumentation & Controls	Jacobs	Ammonia, and Caustic P&ID Revisions
229	Instrumentation & Controls	Jacobs	Chlorine Contact P&ID
230	Instrumentation & Controls	Jacobs	Hawkey Box/Mixing Tank P&ID
231	Instrumentation & Controls	Jacobs	East 5 MG Clearwell P&ID
232	Instrumentation & Controls	Jacobs	West 5 MG Clearwell P&ID
233	Instrumentation & Controls	Jacobs	7.5 MG Clearwell P&ID
234	Instrumentation & Controls	Jacobs	Center Clearwell P&ID

**Attachment A-2**  
**Proposed Schedule**

Activity ID	Activity Name	Orig. Start	Start	Finish	2019	2020	2021	2022	2023																				
702	Design-Build Initial Services Contract Schedule	04-Feb-19A	11-Jul-19	01-Nov-21	M	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J

Project Start Date 04-Feb-19 Project Finish Date: 01-Nov-21 BD-DLT WTP-201906



Actual Work  
 Remaining Work  
 Critical Remaining Work

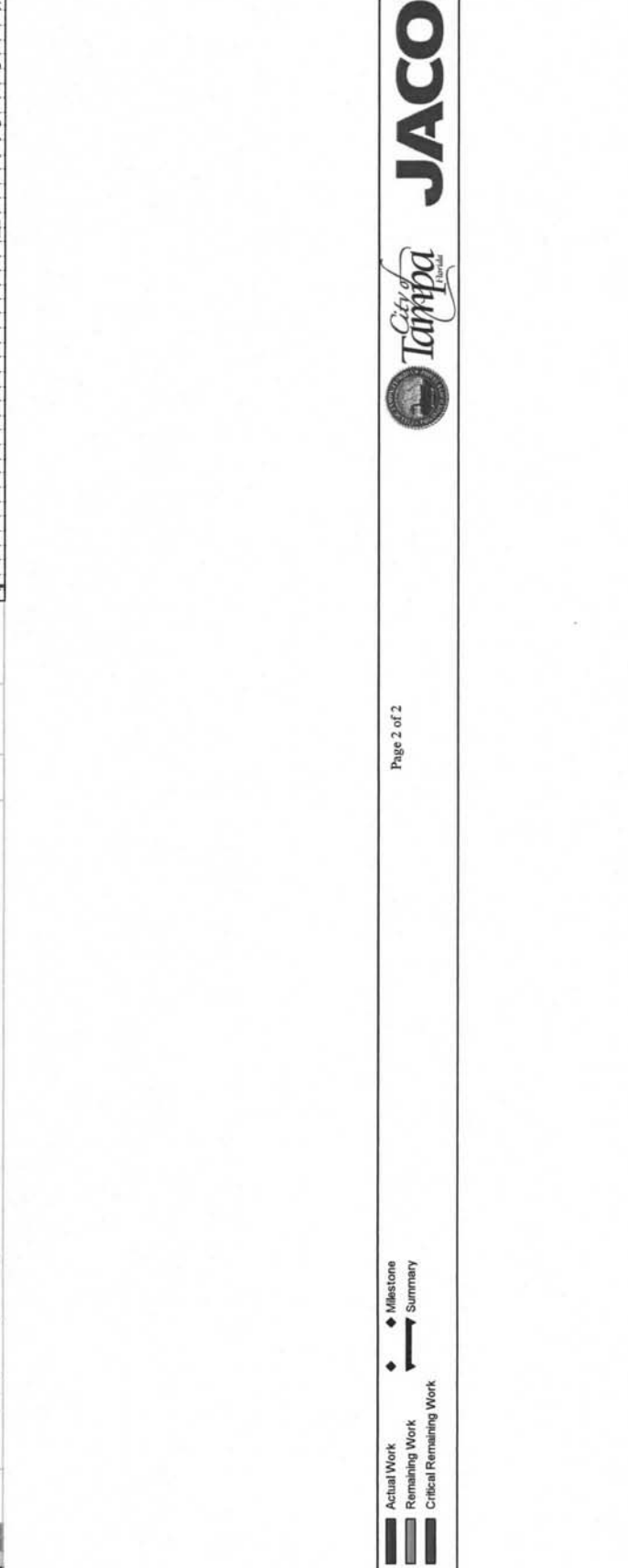
Milestone  
 Summary

Page 1 of 2

David L Tippin WTP HSPS and Improvements - Design-Build Initial Services Contract Schedule

Project Start Date 04-Feb-19 Project Finish Date 01-Nov-21 BD-DLT WTP-201906

Activity ID	Activity Name	Orig. Dur.	Data											
			Start	Finish	2019	2020	2021	2022	2023					
20	Hydraulically Test Center Cleanwell	20	09-Apr-21	03-May-21										
52	Existing Bending Chamber and Hawkeye Box Improvements	30	18-May-21	26-Jun-21										
62	Clearwell 4 Shutdown and Remaining Gates	10	22-Jul-21	04-Aug-21										
48	Clearwell 3 Shutdown and Improvements	30	19-Aug-21	30-Sep-21										
24	High Services Pump Station (HS PS)	236	17-Sep-20	16-Aug-21										
25	Install Dewatering System and Pump Down	10	17-Sep-20	30-Sep-20										
26	Chop/Prep Top of Tremie Seal Slab @ Pump Can Slab	5	01-Oct-20	07-Oct-20										
27	FRP Slab for Pump Cans +7.00	10	15-Oct-20	28-Oct-20										
28	FRP Walls for Pump Cans	15	29-Oct-20	18-Nov-20										
29	Backfill Between Tremie and Slab at +16.50	15	18-Nov-20	10-Dec-20										
30	FRP HS PS Base Slab @ +16.50	30	30-Nov-20	12-Jan-21										
31	FRP HS PS Walls from +16.50 to +36.25	40	29-Dec-20	23-Feb-21										
33	Remove HS PS Cofferdam	5	24-Feb-21	02-Mar-21										
32	Install HS PS Side Gates	5	24-Feb-21	02-Mar-21										
34	FRP HS PS Top Slab @ +36.25	20	03-Mar-21	30-Mar-21										
37	FRP Pump Pads	70	07-Apr-21	14-Jul-21										
38	Set Pumps	10	02-Jun-21	15-Jun-21										
43	HS PS Commissioning	25	15-Jul-21	18-Aug-21										
15	Chlorine Contact Chamber (CCC) and New Backwash Pump Station (BW PS)	55	19-Jan-21	05-Apr-21										
16	Relocate BW Pumps, Construct New Piping and Commission	30	19-Jan-21	01-Mar-21										
16	Commission CCC	10	23-Mar-21	05-Apr-21										
41	New Piping, Site and Site Electrical Improvements	214	14-Sep-20	14-Jul-21										
41	New Electrical Room and/or Existing Bldg Modifications and Site Electrical Improvements	61	14-Sep-20	09-Dec-20										
49	Install Permanent Dewatering System (if Needed)	86	14-Sep-20	14-Jan-21										
35	FRP Exterior Pump Manifold Slab @ +36.25	10	31-Mar-21	13-Apr-21										
40	Install Discharge Header and Other YP Improvements	65	14-Apr-21	14-Jul-21										
39	Install Pump Piping/Valves/Mag Meters/Supports	25	09-Jun-21	14-Jul-21										



Actual Work  
Remaining Work  
Critical Remaining Work

Milestone  
Summary





## Payment of Services

The estimated budget, inclusive of overhead, fringe, and profit, for the design-build initial services included herein is four million, two hundred and seventy-four thousand, eight hundred and thirty-nine dollars (\$4,274,839). A summary of the estimated budget is shown in Attachment B-1 below.

The design-build initial services will be invoiced on a time and materials (T&M) basis. The Firm shall submit to the City an invoice with the detailed back-up support documentation as requested by the City once a month for payment of all labor and expense charges incurred during the previous month by the Firm in performing the work. Without prior City approval, the amount invoiced to each task number shall not exceed the budgeted amounts shown in Attachment B-1, and the entire budget shall not exceed the not to exceed (NTE) amount of \$4,274,839.

Actual labor and expense charges for the design-build initial services will be invoiced under the task and or subtask for the scope of services performed at the rates as described below. In addition to other detailed back-up support documentation as requested by the City, the Firm shall provide a summary of U.S. employees who have worked on and charged the project during the invoice period and their raw hourly wages along with a statement certifying their wages are accurate.

- All professional and administrative staff performing engineering/design and permitting activities in Tasks 1-6 (except no billing rate shall exceed \$290/hr):
  1. All Firm U.S. Labor – the employee's raw hourly salary wage multiplied by 3.0.
  2. ALL engineering labor from the Firm's overseas High Value Deliver Center will be billed at a flat rate of \$90/hour.
  3. All CAD technician labor from the Firm's overseas High Value Deliver Center will be billed at a flat rate of \$75/hour.
  4. Expenses – direct expenses, including travel, reproduction/publication, and similar, with no fee markup.
  5. All subconsultants/subcontractors direct cost multiplied by 1.05 (5 percent mark-up). Detailed itemization/receipts will be submitted with invoicing for expenses.
- All field, professional and administrative staff performing preconstruction activities in Task 7 and field supervision of design subconsultants or meeting attendance in Tasks 1-6 (except no billing rate shall exceed \$290/hr):
  1. All Firm Office Labor – the employee's raw hourly salary wage multiplied by 2.3.
  2. All Firm Field Labor – the employee's raw hourly salary wage multiplied by 2.0.
  3. Expenses – direct expenses, including travel, reproduction/publication, and similar, with no fee markup.
  4. All subconsultants/subcontractors direct cost multiplied by 1.05 (5 percent mark-up). Detailed itemization/receipts will be submitted with invoicing for expenses.

**Attachment B-1**  
**Estimated Budget Summary**



## CITY OF TAMPA INSURANCE REQUIREMENTS\*

Prior to commencing any work or services or taking occupancy under that certain written agreement or award (for purposes of this document, Agreement) between the City of Tampa, Florida (City) and Firm/Awardee/Contractor/Consultant/Lessee/non-City party, etc. (for purposes of this document, Firm) to which this document is attached and incorporated as an Exhibit or otherwise, and continuing during the term of said Agreement (or longer if the Agreement and/or this document so requires), Firm shall provide, pay for, and maintain insurance against claims for injuries to persons (including death) or damages to property which may arise from or in connection with the performance of the Agreement (including without limitation occupancy and/or use of certain property/premises) by Firm, its agents, representatives, employees, suppliers, subtenants, or subcontractors (which term includes sub-consultants, as applicable) of any tier subject to the terms and conditions of this document. Firm's maintenance of insurance coverage as required herein is a material element of the Agreement and the failure to maintain or renew coverage or provide evidence of same (defined to include without limitation Firm's affirmative duty to provide from time to time upon City's request certificates of insurance. Should at any time Firm not maintain the insurance coverages required, City at its sole option (but without any obligation or waiver of its rights) may (i) terminate the Agreement or (ii) purchase such coverages as City deems necessary to protect itself (charging Firm for same) and at City's option suspending Firm's performance until such coverage is in place. If Firm does not reimburse City for such costs within 10 days after demand, in addition to any other rights, City shall also have the right to offset such costs from amounts due Firm under any agreement with the City. All provisions intended to survive or to be performed subsequent to the expiration or termination of the Agreement shall survive, including without limitation Firm's obligation to maintain or renew coverage, provide evidence of coverage upon City's request and/or in response to a potential claim, litigation, etc.

The City reserves the right from time to time to modify or waive any or all of these insurance requirements (or to reject policies) based on the specific nature of goods/services to be provided, nature of the risk, prior experience, insurer, coverage, financial condition, failure to operate legally, or other special circumstances. No representation is made that the minimum insurance requirements are sufficient to cover Firm's interests, liabilities, or obligations. Required insurance shall not limit Firm's liability.

Firm acknowledges and agrees Firm and not the City is the party in the best position to determine applicability (e.g. "IF APPLICABLE"), confirm, and/or verify its insurance coverage. Acceptance by the City, or by any of its employees, representatives, agents, etc. of certificates or other documentation of insurance or policies pursuant to the terms of this document and the Agreement evidencing insurance coverages and limits does not constitute approval or agreement that the insurance requirements have been met or that coverages or policies are in compliance. Furthermore, receipt, acceptance, and/or approval of certificates or other documentation of insurance or policies or copies of policies by the City, or by any of its employees, representatives, agents, etc., which indicate less coverage than required does not constitute a waiver of Firm's obligation to fulfill these insurance requirements.

### MINIMUM SCOPE AND LIMIT OF INSURANCE <sup>1</sup>

A. Commercial General Liability (CGL) Insurance on the most current Insurance Services Office (ISO) Form CG 00 01 or its equivalent on an "occurrence" basis (Modified Occurrence or Claims Made forms are not acceptable without prior written consent of the City). Coverage must be provided to cover liability contemplated by the Agreement including without limitation premises and operations, independent contractors, contractual liability, products and completed operations, property damage, bodily, personal and advertising injury, contractual liability, explosion, collapse, underground coverages, personal injury liability, death, employees-as-insureds. Products and completed operations liability coverage maintained for 3 years after completion of work. Limits shall be \$1M per occurrence and \$2M general aggregate for Agreements valued at \$2M or less; if valued over \$2M, a general aggregate limit that equals or exceeds the Agreement's value. **(ALWAYS APPLICABLE)**

B. Automobile Liability (AL) Insurance in accordance with Florida law, as to the ownership, maintenance, and use of all owned, non-owned, leased, or hired vehicles. AL insurance shall not be less than: (a) \$500,000 combined single limit each occurrence bodily injury and property damage for Agreements valued at \$100,000 or less or (b) \$1M combined single limit each occurrence bodily injury and property damage for Agreements valued over \$100,000. If transportation of hazardous material involved, the MCS-90 endorsement (or equivalent). **(ALWAYS APPLICABLE)**

C. Worker's Compensation (WC) & Employer's Liability Insurance for all employees engaged under the Agreement, Worker's Compensation as required by Florida law. Employer's Liability with limits of (a) \$500,000 bodily injury by accident and each accident, bodily injury by disease policy limit, and bodily injury by disease each employee for Agreements valued at \$100,000 and under or (b) \$1M bodily injury by accident and each accident, bodily injury by disease policy limit, and bodily injury by disease each for all other Agreements. **(ALWAYS APPLICABLE)**

D. Excess (Umbrella) Liability Insurance for Agreements valued at \$2M or more, \$4M per occurrence and aggregate in excess of underlying limits and no more restrictive than underlying coverage for all work performed by Firm. May also compensate for a deficiency in CGL, AL, or WC. Total limits may be satisfied by any combination of primary and excess insurance. **(ALWAYS APPLICABLE)**

E. Builder's Risk Insurance for property loss exposure associated with construction/renovation/additions to buildings or structures, including materials or fixtures to be incorporated. Must be "All Risk" form with limits of no less than the project's completed value, have no coinsurance penalties, cover Firm (together with its contractors, subcontractors of every tier, and suppliers), and name City as a Loss Payee. **(IF APPLICABLE)**

F. Installation Floater coverage for property (usually highly valued equipment or materials such as compressors, generators, etc.) during its installation. Coverage must be "All Risk" including installation and transit for no less than 100% of the installed replacement cost value. **(IF APPLICABLE)**

G. Architects & Engineers Liability/ Professional Liability (E&O)/ Contractors Professional Liability (CPrL)/ Medical Malpractice Insurance where Agreement involves Florida-regulated professional services (e.g. architect, engineer, design-builder, CM, accountant, appraiser, investment banker medical professional) at any tier, whether employed or independent, vicarious design liability exposure (e.g. construction means & methods, design supervision), value engineering, constructability assessments/reviews, BIM process, and/or performance specifications. Limits of at least \$4M per claim and \$4M aggregate; deletion of design/ build liability exclusions, as applicable, and maintained for 3 years after completion of work/services and City's acceptance of same. **(IF APPLICABLE)**

H. Railroad Protective Liability CRPL Insurance for construction within 50ft of operated railroad track(s) or where affects any railroad bridge, trestle, tunnel, track(s) roadbed, or over/under pass. Subject to involved rail road's approval prior to commencement of work. **(IF APPLICABLE)**.

I. Pollution and/or Asbestos Legal Liability Insurance where Agreement involves asbestos and/or environmental hazards/contamination risks (defined broadly, e.g. lead, mold, bacteria, fuel storage, underground work, cleanup (owned or non-owned sites), pollutant generation/transportation, marine/natural resource damage, contamination claim, restitution, business interruption, mold, fungus, lead-based paint, 3rd party claims/removal, etc.), with limits of at least \$1M per occurrence or claim and \$2M aggregate, maintained for at least 3 years after Agreement completion. **(IF APPLICABLE)**

J. Cyber Liability Insurance where Agreement involves portals allowing access to obtain, use, or store data; managed dedicated servers; cloud hosting services; software/hardware; programming; and/or other IT services

<sup>1</sup> "M" indicates million(s), for example \$1M is \$1,000,000

and products are involved. Limits of not less than \$2M per occurrence and \$2M aggregate. Coverage sufficiently broad to respond to duties and obligations undertaken by Firm, and shall include, but not be limited to, claims involving infringement of intellectual property/copyright, trademark, trade dress, invasion of privacy violations, damage to or destruction of electronic information, information theft, release of confidential and/or private information, alteration of electronic information, extortion, virus transmission, and network security. Coverage, as applicable and with sufficient limits to respond, for breach response costs, regulatory fines and penalties, credit monitoring expenses. (IF APPLICABLE)

K. Drone/UAV Liability Insurance where Agreements involves unmanned aerial vehicles/drones. Coverage to include products and completed operations, property damage, bodily injury with limits no less than \$1M per occurrence, and \$2M aggregate; may be provided by CGL endorsement subject to City's prior written approval. (IF APPLICABLE)

L. Longshore & Harbor Workers' Compensation Act/Jones Act for work being conducted near, above, or on "navigable waters" for not less than the above Employer's Liability Insurance limit. (IF APPLICABLE)

M. Garagekeeper/Hangerkeeper/Marina Operator Legal Liability Insurance and/or Hull/P&I Insurance where parking lot, valet, dealership, garage services, towing, etc. and/or operation of a hangar, marina, or air

plane/ship repairer, providing safe berth, air/watercraft storage/docking (on land/ in water), fueling, tours, charters, ferries, dredges, tugs, mooring, towing, boat/aircraft equipment/repair/alteration/maintenance, etc.; cover- age against liability for damage to vehicles air/watercraft, their machinery in Firm's care, custody, or control both private & commercial. Limits at least equal to greater of \$1M, value of max number of vehicles that may be in Firm's custody, or of most costly object in Firm's custody. (IF APPLICABLE)

N. Property Insurance and Interruption of Business (IOB) Insurance where premises, building, structure, or improved real property is leased, licensed, or otherwise occupied by Firm. Property Insurance against all risks of loss to any occupant/tenant improvements at full replacement cost with no coinsurance penalty, including fire, water, leak damage, and flood, as applicable, vandalism and malicious mischief endorsements. IOB by which minimum monthly rent will be paid to City for up to 1 year if premises are destroyed, rendered inaccessible or untenable, including disruption of utilities, water, or telecommunications. (IF APPLICABLE)

O. Liquor Liability/Host Liquor Liability where Firm directly or indirectly provides alcoholic beverages, limits of at least \$1M per occurrence and \$1M aggregate. (IF APPLICABLE)

P. Educators Legal Liability Insurance where day care, after school program, recreational activities, etc. limits per G above. (IF APPLICABLE)

#### ADDITIONAL REQUIREMENTS

ACCEPTABILITY OF INSURERS- Insurance is to be placed with insurers admitted in the State of Florida and who have a current A.M. Best rating of no less than A-:VII or, if not rated by A.M. Best, as otherwise approved by the City in advance and in writing.

ADDITIONAL INSURED - City, its elected officials, departments, officers, officials, employees, and volunteers together with, as applicable, any associated lender of the City shall be covered as additional insureds on all liability coverage except Professional Liability (e.g. CGL, AL, and Excess (Umbrella) Liability) as to liability arising out of work or operations performed by or on behalf of Firm including materials, parts, or equipment furnished in connection with such work or operations and automobiles owned, leased, hired, or borrowed by or on behalf of Firm. Coverage can be provided in the form of an endorsement to Firm's insurance (at least as broad as ISO Form CG 20 10 and CG 20 37 if later revisions used).

CANCELLATION/NON-RENEWAL - Each insurance policy shall provide that at least 30 days written notice must be given to City of any cancellation, intent to non-renew, or material reduction in coverage (except aggregate liability limits) and at least 10 days' notice for non-payment of premium. Firm shall also have an independent duty to notify City in like manner, within 5 business days of Firm's receipt from its insurer of any notices of same. If any policy's aggregate limit is reduced, Firm shall directly take steps to have it reinstated. Notice and proof of renewal/continued coverage/certifications, etc. shall be sent to the City's notice (or Award contact) address as stated in the Agreement with a copy to the following:

Contract Administration Department, 306 E Jackson St, Tampa, FL 33602  Purchasing Department, 306 E Jackson Street, Tampa, FL 33602

Other: \_\_\_\_\_

CERTIFICATE OF INSURANCE (COI) - to be provided to City by insurance carrier prior to Firm beginning any work/services or taking occupancy and, if the insurance expires prior to completion of the work or services or Agreement term (as may be extended), a renewal COI at least 30 days before expiration to the above address(es). COIs shall specifically identify the Agreement and its subject (project, lease, etc.), shall be sufficiently comprehensive to insure City (named as additional insured) and Firm and to certify that coverage extends to subcontractors' acts or omissions, and as to permit the City to determine the required coverages are in place without the responsibility of examining individual policies. **Certificate Holder must be The City of Tampa, Florida.**

CLAIMS MADE - If any liability insurance is issued on a claims made form, Firm agrees to maintain such coverage uninterrupted for 3 years following completion and acceptance of the work either through purchase of an extended reporting provision or purchase of successive renewals. The Retroactive Date must be shown and be a date not later than the earlier of the Agreement date or the date performance/occupancy began thereunder.

DEDUCTIBLES/ SELF-INSURED RETENTIONS (SIR) - must be disclosed to City and, if over \$500,000, approved by the City in advance and in writing, including at City's option being guaranteed, reduced, or eliminated (additionally if a SIR provides a financial guarantee guaranteeing payment of losses and related investigations, claim administration, and defense expenses). Firm shall be fully responsible for any deductible or SIR. In the event of loss which would have been covered but for a deductible or SIR, City may withhold from any payment due Firm, under any agreement with the City, an amount equal to same to cover such loss should full recovery not be obtained under the policy.

PERFORMANCE- All insurance policies shall be fully performable in Hillsborough County, Florida (the County), and construed in accordance with Florida law. Further, all insurance policies must expressly state that the insurance company will accept service of process in the County and that the exclusive venue for any action concerning any matter under those policies shall be in the appropriate state court of the County.

PRIMARY POLICIES - Firm's insurance coverage except Worker's Compensation & Employer's Liability Insurance and Professional Liability shall be primary insurance coverage at least as broad as ISO CG 20 01 04 13 as to the City, its elected officials, departments, officers, employees, and volunteers. Any insurance or self-insurance maintained by the City, its elected officials, departments, officers, employees, and volunteers shall be excess of the Firm's insurance and shall not contribute with it.

SUBCONTRACTORS/INDEPENDENT ASSOCIATES/CONSULTANTS/SUBTENANTS/SUBLICENSEE - Firm shall require and verify that all such entities maintain insurance meeting all requirements stated herein with the City as an additional insured by endorsement (ISO FORM CG 20 38, or broader) or otherwise include such entities within Firm's insurance policies. Upon City's request, Firm shall furnish complete and certified copies of copies of such entities' insurance policies, forms, and endorsements.

SUBCONTRACTOR DEFAULT INSURANCE CONTROLLED INSURANCE PROGRAM, WRAP-UP. Use requires express prior written consent of City Risk Manager.

UNAVAILABILITY- To the fullest extent permitted by law, if Firm is out of business or otherwise unavailable at the time a claim is presented to City, Firm hereby assigns to the City all of its right, title and interest (but not any liabilities or obligations) under any applicable policies of insurance.

WAIVER OF SUBROGATION - With regard to any policy of insurance that would pay third party losses except Professional Liability, Firm hereby grants City a waiver of any right to subrogation which any insurer of Firm may acquire against the City by virtue of the payment of any loss under such insurance. Firm agrees to obtain any endorsement that may be necessary to affect such waiver, but this provision shall apply to such policies regardless.

WAIVER/RELEASE AGREEMENT - Where Firm has a defined group of persons who might be exposed to harm (e.g. participants in an athletic event/program, volunteers) any waiver or release agreement used by Firm whereby such persons (and their parent/guardian as applicable) discharge Firm from claims and liabilities, shall include the City, its elected officials, departments, officers, officials, employees, and volunteers to the same extent as Firm.



**Failure to Complete, Sign and Submit Both Forms 10 & 20 SHALL render the Bid or Proposal Non-Responsive**

**Page 1 of 4 – DMI Solicited/Utilized Schedules  
City of Tampa – Schedule of All Solicited Sub-(Contractors/Consultants/Suppliers)  
(FORM MBD-10)**

Contract No.: 19-C-00022 Contract Name: DLTWTF High Service Pump Station and Misc. Improvements  
Company Name: CH2M HILL Engineers, Inc. Address: 201 North Franklin Street, Suite 1400, Tampa, FL 33602  
Federal ID: 32-0100027 Phone: 352-384-7167 Fax: 352-271-4923 Email: dave.schoster@jacobs.com

Check applicable box(es). Detailed Instructions for completing this form are on page 2 of 4.

No Firms were contacted or solicited for this contract.

No Firms were contacted because: \_\_\_\_\_

See attached list of additional Firms solicited and all supplemental information (List must comply to this form)

Note: Form MBD-10 must list ALL subcontractors solicited including Non-minority/small businesses

NIGP Code Categories: Buildings = 909, General = 912, Heavy = 913, Trades = 914, Architects = 906, Engineers & Surveyors = 925, Supplier = 912-77

S = SLBE W=WMBE O = Neither	Company Name Address Phone, Fax, Email	Type of Ownership (F=Female M=Male) BF BM = African Am. HF HM = Hispanic AF AM = Asian Am. NF NM = Native Am. CF CM = Caucasian	Trade or Services  NIGP Code (listed above)	Contact Method L=Letter F=Fax E=Email P=Phone	Quote or Response Received Y/N
Federal ID					
S	David Conner and Associates 100 East Madison Street, Suite 200 Tampa, Florida 33602 P:813-2581997	CM	906	P	Y
59-3421586					
W	Tierra, Inc 7351 Temple Terrace Highway Tampa, Florida 33637 P:813-989-1354 F: 813-989-1355 E:jdstephano@tierraeng.com	HM	925	E	Y
59-3154723					
S	Rowe Architects 100 Madison Street, Suite 200 Tampa, Florida 33602.4704 P:813-221-8771 E: r.rowe@rowearchitects.com	CM	906	P	Y
59-3113831					
W	CES Consultants 14361 Commerce Way Suite 103 Miami Lakes, FL 33016 P: 305-827-2220 F: 305-827- 1121 E:cesinfo@cesconsult.com	HM	925	P	Y
65-0792884					
W	Environmental Engineering Consultants, Inc. 5119 N. Florida Ave. Tampa, FL 33603 P:813-237-3781 E: awallace@eec-tampabay.com	CF	925	P	Y
59-1961870					
W	Suncoast Land Surveying 111 Forest Lakes Blvd, Oldsmar, FL 34677 P: 813.854.1342 F: 813.855.6890 E: kylesls@tampabay.rr.com	HF	925	P	Y
59-2733609					
O	Schneider Electric 5110 Sun Forest Drive Suite 105 ,Tampa, Florida 33634 P: 813-882-6623 E: Fred.Polacek@SE.com	CM	914	P	Y
36-2440683					

It is hereby certified that the information provided is an accurate and true account of contacts and solicitations for sub-contracting opportunities on this contract.

Signed: David W. Schoster Name/Title: Dave Schoster, Project Manager Date: 5/8/2019

**Failure to Complete, Sign and Submit Both Forms 10 & 20 SHALL render the Bid or Proposal Non-Responsive  
Forms must be included with Bid / Proposal**



**Failure to Complete, Sign and Submit Both Forms 10 & 20 SHALL render the Bid or Proposal Non-Responsive**

**Page 1 of 4 – DMI Solicited/Utilized Schedules  
City of Tampa – Schedule of All Solicited Sub-(Contractors/Consultants/Suppliers)  
(FORM MBD-10)**

Contract No.: 19-C-00022 Contract Name: DLTWTF High Service Pump Station and Misc. Improvements  
 Company Name: CH2M HILL Engineers, Inc. Address: 201 N. Franklin St. Suite140 Tampa, Florida 33602  
 Federal ID: 32-0100027 Phone: 352-384-7167 Fax: 352-271-4923 Email: dave.schoster@jacobs.com

Check applicable box(es). Detailed Instructions for completing this form are on page 2 of 4.

- No Firms were contacted or solicited for this contract.
- No Firms were contacted because: \_\_\_\_\_
- See attached list of additional Firms solicited and all supplemental information (List must comply to this form)  
Note: Form MBD-10 must list ALL subcontractors solicited including Non-minority/small businesses

NIGP Code Categories: Buildings = 909, General = 912, Heavy = 913, Trades = 914, Architects = 906, Engineers & Surveyors = 925, Supplier = 912-77

S = SLBE W=WMBE O = Neither	Company Name Address Phone, Fax, Email	Type of Ownership (F=Female M=Male) BF BM = African Am. HF HM = Hispanic AF AM = Asian Am. NF NM = Native Am. CF CM = Caucasian	Trade or Services	Contact Method L=Letter F=Fax E=Email P=Phone	Quote or Response Received Y/N
Federal ID		NIGP Code (listed above)			
0 04-2916626	Alden Research Laboratory, Inc. 30 Shrewsbury St., Holden, MA 01520 P: (508) 829-6000 ext. 6426 Email: ajohansson@aldenlab.com	CM	912-77	P	Y
	Failure to Complete, Sign and Submit this form with your Bid or Proposal Shall render the Bid Non-Responsive (Do Not Modify This Form)				

It is hereby certified that the information provided is an accurate and true account of contacts and solicitations for sub-contracting opportunities on this contract.

Signed: David W. Schoster Name/Title: Dave Schoster, Project Manager Date: 5/8/2019

**Failure to Complete, Sign and Submit Both Forms 10 & 20 SHALL render the Bid or Proposal Non-Responsive  
Forms must be included with Bid / Proposal**



**Failure to Complete, Sign and Submit Both Forms 10 & 20 SHALL render the Bid or Proposal Non-Responsive**

**Page 3 of 4 – DMI Solicited/Utilized Schedules  
City of Tampa – Schedule of All To-Be-Utilized Sub-(Contractors/Consultants/Suppliers)  
(FORM MBD-20)**

Contract No.: 19-C-00022 Contract Name: DLTWTF High Service Pump Station and Misc. Improvements  
 Company Name: CH2M HILL Engineers, Inc. Address: 201 North Franklin Street, Suite 1400, Tampa, FL 33602  
 Federal ID: 32-0100027 Phone: 352-384-7167 Fax: 352-271-4923 Email: dave.schoster@jacobs.com

Check applicable box(es). Detailed Instructions for completing this form are on page 4 of 4.

See attached list of additional Firms Utilized and all supplemental information (List must comply to this form)

**Note: Form MBD-20 must list ALL subcontractors To-Be-Utilized including Non-minority/small businesses**

No Subcontracting/consulting (of any kind) will be performed on this contract.

No Firms are listed to be utilized because: \_\_\_\_\_

NIGP Code General Categories: Buildings = 909, General = 912, Heavy = 913, Trades = 914, Architects = 906, Engineers & Surveyors = 925, Supplier = 912-77

Enter "S" for firms Certified as Small Local Business Enterprises, "W" for firms Certified as Women/Minority Business Enterprise, "O" for Other Non-Certified

S = SLBE W=WMBE O =Neither	Company Name Address Phone, Fax, Email	Type of Ownership (F=Female M=Male) BF BM = African Am. HF HM = Hispanic Am. AF AM = Asian Am. NF NM = Native Am. CF CM = Caucasian	Trade, Services, or Materials  NIGP Code Listed above	\$ Amount of Quote. Letter of Intent (LOI) if available	Percent of Scope or Contract %
S 59-3421586	David Conner and Associates 100 East Madison Street, Suite 200 Tampa, Florida 33602 P:813-2581997	CM	906	\$5,000.00	0.117
W 59-3154723	Tierra, Inc 7351 Temple Terrace Highway Tampa, Florida 33637 P:813-989-1354 F: 813-989-1355 E:jdstephano@tierraeng.com	HM	925	\$90,911.00	2.130
S 59-3113831	Rowe Architects 100 Madison Street, Suite 200 Tampa, Florida P:813-221-8771 E: r.rowe@rowearchitects.com	CM	906	\$126,075.00	2.949
W 65-0792884	CES Consultants 14361 Commerce Way Suite 103 Miami Lakes, FL 33016 P: 305-827-2220 F: 305-827- 1121 E:cesinfo@cesconsult.com	HM	925	\$192,869.00	4.512
W 59-1961870	Environmental Engineering Consultants, Inc. 5119 N. Florida Ave. Tampa, FL 33603 P:813-237-3781 E: awallace@eec-tampabay.com	CF	925	\$6,816.00	0.160
W 59-2733609	Suncoast Land Surveying 111 Forest Lakes Blvd, Oldsmar, FL 34677 P: 813.854.1342 F: 813.855.6890 E: kylesls@tampabay.rr.com	HF	925	\$61,500.00	1.440
O 36-2440683	Schneider Electric 5110 Sun Forest Drive Suite 105 ,Tampa, Florida 33634 P: 813-882-6623 E: Fred.Polacek@SE.com	CM	914	\$23,000.00	0.539

Total ALL Subcontract / Supplier Utilization \$ \_\_\_\_\_

Total SLBE Utilization \$ \_\_\_\_\_

Total WMBE Utilization \$ \_\_\_\_\_

Percent SLBE Utilization of Total Bid/Proposal Amt. \_\_\_\_\_% Percent WMBE Utilization of Total Bid/Proposal Amt. \_\_\_\_\_%

It is hereby certified that the following information is a true and accurate account of utilization for sub-contracting opportunities on this Contract.

Signed: David W. Schoster Name/Title: David Schoster, Project Manager Date: 5/8/2019

**Failure to Complete, Sign and Submit Both Forms 10 & 20 SHALL render the Bid or Proposal Non-Responsive**

**Forms must be included with Bid / Proposal**



