

## **SUPPLEMENTAL SPECIFICATIONS**

### **LITHIA WATER TREATMENT PLANT (WTP) LARGE VALVE REPLACEMENT PROJECT CIP C30116000/16019**

These Supplemental Specifications modify the General Terms and Conditions and other provisions of the Contract Documents. To the extent such provisions are not modified or supplemented herein all provisions remain in full force and effect.

#### **1.01 – AS-BUILT DRAWINGS**

During the course of construction the Contractor shall be responsible for maintaining a continuously marked up set (manually) of 24"x36" as-built drawings that are available for review by the County at any time. These drawings shall show the as-built information at all locations where proposed elevations, offsets, or dimensions are given on the construction plans. They shall show GPS coordinates (X,Y,Z) for the PUD utility piping at not greater than 25 feet intervals. Changed information shall be crossed through while remaining legible with the new information printed beside the original. In the profile view, at a minimum, the top elevation of all installed piping and the finished grade elevation is to be as-built at 25 feet minimum intervals, at all high points (air release valves), at each change of horizontal or vertical alignment, at all connections, valves and fittings. As-builts and Record Drawings shall comply with the Hillsborough County PUD Technical Manual.

Any as-built information that differs significantly from the construction plans shall be "clouded". Proposed locations not clouded or crossed through on the as-builts drawings shall be considered to be the actual as-built information (match proposed).

The Engineer of Record shall employ the services of a Registered Land Surveyor (RLS), to verify the Contractor's as-built documents. Unless otherwise specified, all survey work required by the Hillsborough County Water, Wastewater, and Reclaimed Water Technical Specifications, Technical Manual, and the Supplemental Conditions shall be performed and submitted utilizing the Florida West State Plane Coordinate System. All identified coordinates and bearings shall conform to standard grid protocol. All distances shall be in ground feet. Scale and elevation factors shall be shown on drawings. Horizontal datum is the North American Datum 1983 (NAD83), as adjusted in 1990. Vertical datum is the North American Vertical Datum of 1988 (NAVD88).

It is the Contractor's responsibility to coordinate all efforts necessary with the RLS (and the Engineer of Record EOR). It is the responsibility of the RLS and the EOR to be in a position to sign and seal each sheet of the final as-builts (also known as the Record Drawing Plan set). This sealed signature shall certify that the drawings do, in fact, reflect the true as-built conditions/elevations of the project. Neither the RLS nor the EOR can use the statement "based on information provided by others" or any other manner of absolving themselves or accuracy/responsibility for all as-built information provided.

Applications for pay requests shall not be approved by the County if the as-built drawings are not kept current or fail to meet all the aforementioned requirements.

Completion of certain project milestones is contingent upon the submittal of updated as-built drawings and other required documentation. At Substantial Completion, the Contractor shall submit a completed Asset Data Template for the project and a preliminary copy of the Final As-builts. The official Asset Data Template configured for the project shall be provided by the County's Project Manager.

The Final Completion Milestone shall require the preparation and submittal of a Record Drawing Plan set and the Asset Data Template. The Contractor shall have all the as-built information from the continuously marked up As-builts transferred to the Engineer of Record, who is responsible for preparing the Record Drawing Plan set and finalizing/confirming the Asset Data Template; and submit same to the Project Manager to review for conformity to the Hillsborough County Water, Wastewater, and Reclaimed Water Technical Specifications and the Hillsborough County Water, Wastewater, and Reclaimed Water Technical Manual. Each sheet of the marked up as-builts shall bear the name, date and original signature of the Contractor responsible for the work and the RLS who confirmed the horizontal and vertical dimensions and elevations (XYZ Coordinates).

Record Drawings are not to be hand drawn. Upon PUD approval of the mark-ups, the RLS and EOR shall prepare and sign and seal three (3) complete sets of 24x36 Record Drawings. In addition to the aforementioned signed and sealed plan sets, PUD requires the submittal of a CD containing the Record Drawings in both dwg (AutoCAD 2014 or later) and pdf format, as well as a final copy of the completed Asset Data Template referenced in Section 2.4 of the Technical Manual. The pdf and dwg need to conform to all the requirements set forth under Section 2.4 of the Technical Manual. Designation of Final Completion is contingent upon receipt and approval of all required documents.

The County's acceptance of the Contractor's as-builts does not relieve the Contractor of his sole responsibility for the accuracy or completeness of the drawings. Other requirements of Specification 01300 remain in effect.

All as-built survey costs incurred by the Contractor and associated herein shall be included in the Mobilization pay item for this project.

## **1.02 – CONSTRUCTION OBSERVATION**

No work shall be done nor materials used, without suitable supervision or inspection by the Project Manager or his representative, and the Contractor shall furnish the Project Manager with every reasonable opportunity for ascertaining whether the work performed and materials used are in accordance with the requirements and intent of the plans and specifications. If the Project Manager so requests, the Contractor shall, at any time before final completion and/or acceptance of the work, remove or uncover such portions of the finished work as shall be directed. After examination, the Contractor shall restore the uncovered portions of the work to the standard required by the specifications. The

uncovering or removal, and the replacing of the covering or making good of the parts removed, shall be at the Contractor's expense.

### **1.03 – SOIL AND MATERIAL TESTING**

For tests required by the plans and technical specifications, the Contractor shall be responsible for employing the services of a testing laboratory for soil compaction density tests and material testing.

### **1.04 – PIPE INSTALLATION / HOMING INSPECTION**

The County shall place emphasis on proper pipe bedding, installation procedures, compaction requirements and homing of pipe.

1. Contractor is not to use a "come along" or heavy piece of equipment to deflect the pipe to line up joints, it can put too much stress on the pipe and cause premature failure.
2. Contractor to not deflect pipe beyond manufacturer's or County's specifications, whichever is more stringent.
3. All pipe that gets over-homed shall be considered over-assembled and damaged. The bell section of pipe shall be replaced and the spigot end shall be replaced in this circumstance and all costs shall be paid for by Contractor. Contractor shall not be allowed to pull the pipe out and re-install.
4. Contractor to coordinate that the County representative inspects each joint before backfill begins. Pre-marked circumferential insertion line shall be visible and flush with lip of adjoining pipe bell after joint assembly is complete.

### **1.05 – UTILITY INVESTIGATION**

Contractor shall field verify the location, size and depth of existing utilities in advance of construction as necessary to address potential conflicts. No additional payment or contract time shall be granted as a result of changes resulting from the Contractor's failure to verify the above.

### **1.06 – MAINTENANCE OF TRAFFIC**

The Contractor's attention is directed to the fact that the work is located within a water treatment facility. The Contractor shall be responsible for scheduling and coordinating with the County to provide access to the facility at all times for County employee access, chemical deliveries via tanker trucks, package deliveries via tractor trailers, vehicles, trucks, and etc.

### **1.07 – PERMITS**

- A. Building Permits shall be the responsibility of the Contractor:

- B. The Contractor shall sign the Stormwater Pollution Prevention Plan provided in the drawings and shall submit an FDEP Notice of Intent (NOI) to Use Generic Permit for Stormwater Discharge from Large and Small Construction Activities, including the required \$400 fee, prior to the start of field activities per FDEP rule 62-621.300(4)(a). The \$400 fee is defined in rule 62-4.050(4)(d), F.A.C.

#### **1.08 – BIDDER’S Inspection of Existing Conditions**

- A. Prior to submitting the bid proposal, the Bidder is required to visit the site. It is the Bidder’s responsibility to carefully examine the site of the Work and to make all investigations to inform itself thoroughly as to all difficulties involved in the completion of all Work required for this project. No pleas of ignorance of conditions or difficulties that shall exist prior to the bid opening time or of conditions or difficulties that shall be encountered in the execution of the Work pursuant to this bid as a result of the Bidder’s failure to make necessary and reasonable examinations and investigations shall be accepted as an excuse for any failure or omission on the part of the successful Contractor to fulfill in every detail all of the requirements of the Contract Documents, nor shall they be accepted as a basis for any claim whatsoever for extra compensation or for any extension of time.
- B. The drawings and specifications prepared for this project describe the General Conditions, Site Work, Equipment, and Construction Work required. The Contract Documents are not intended to describe or reflect existing constraints and site conflicts which the successful Contractor shall work around. It is the Bidder’s responsibility to determine these conditions through site inspections and investigations.
- E. In addition to other site conditions, the Bidder is specifically advised to inspect areas and conditions adjacent to the exterior of the construction boundary, such as open areas, landscaping, driveways, sidewalks, adjacent paved/concrete areas and ditches and take into consideration available space for maneuvering equipment necessary for construction.

#### **1.09 – COMPETANT PERSON**

According to OSHA Standards 29 CFR Part 1926, a Competent Person is required and shall be on site anytime the Contractor is performing work.

## Supplemental Conditions to the Technical Specifications

### **2.01 - General**

“Basis of Payment” sections in the individual specifications are not applicable and are superseded by Section 01312 – Measurement and Payment.

### **2.02 - Section 01010 – SUMMARY OF WORK**

1. 01010-1, add the following to this section:

“The work consists of the installation of three (3) 36-inch MJ butterfly valves, two (2) 42-inch MJ butterfly valves, four (4) 54-inch FL butterfly valves (to be verified prior to ordering), fittings, appurtenances and removal of existing valves as shown on the drawings.

2. 01010-1.08, *Underground Pollutant Storage Tanks*. This paragraph is not applicable to this project.

3. 01010-1.10, *Work or Structures in Navigable Waters of the U.S., Waters of the U.S., and Waters of the State*. This paragraph is not applicable to this project.

4. 01010-1.14, *Operations within Railroad Right of Way*. This paragraph is not applicable to this project.

5. 01010-1.17, add: “Any additional costs incurred by Contractor requesting and working non normal working hours shall be deducted from final pay request.”

6. 01010-1.23, change “Planning and Growth Management Department” to read “Development Services Department”.

### **2.03 - Section 01040 – CONTROL OF WORK**

1. Delete paragraph 01040-2.02 in its entirety.

2. Delete paragraph 01040-2.03 in its entirety.

3. Delete section 01040-2.05 in its entirety.

4. 01040, add 3.09 “**NPDES Requirements:** The Contractor shall be responsible for meeting the requirements of the National Pollutant Discharge Elimination System (NPDES) permitting program in the State of Florida, found in DEP Document No. 62-621.300(4)(a). This includes posting of Notice of Intent (NOI) or acknowledgement letter from DEP at the site, construction and documenting inspections for erosion control measures and Storm Water management, the development and implementation of a Storm Water Pollution Prevention Plan (SWPPP) and filing Notice of Termination

(NOT) within fourteen (14) days of final stabilization of the site and retention of reports for three (3) years after final stabilization.”

5. 01040, add 3.10 “**Trench Safety Act:** Trench excavations in excess of five (5) feet shall be subject to the Occupational Safety and Health Administration (OSHA) Standard (29 C.F.R. 1926.650 Subpart P), Excavation, Trenching and Shoring, General Protection Requirements, during the period of construction. The provisions contained therein are required by the State of Florida Trench Safety Act, effective October 1, 2008 Trench Safety Standards and Section 02050 - Excavation and Backfill for Utilities and Specification 339001 and 339002 (Reclaimed Water Specifications and Exhibits) shall apply.”

#### **2.04 - Section 01091 – REFERENCE SPECIFICATIONS**

1. 01091-1.02, B. change this paragraph to read: “References herein to “Building Code”, “Code” or “SSBC” shall be interpreted to mean the latest version of the Florida Building Code as adopted/amended by Hillsborough County unless otherwise called out on the Drawings or in the Specifications.”

#### **2.05 - Section 01200 – MEETINGS AND CONFERENCES**

1. 01200-1.02, A., change “...progress meetings at least weekly” to read “...progress meetings at least monthly”.
2. 01200-1.02, B., change “weekly” to read “monthly”; second sentence, change “The COUNTY shall attend” to read “The COUNTY shall attend”.
3. 01200-1.02, add Paragraph C “The COUNTY reserves the right to schedule meetings as appropriate to facilitate the exchange of information and the completion of the project.”

#### **2.06 - Section 01300 – CONTRACTOR SUBMITTALS**

1. 01300-1.01, add “C. Submittals shall be made electronically in PDF format. References to submitting nine (9) hardcopies shall therefore be ignored. When necessary, the Project Manager reserves the right to request, and the Contractor shall provide, hardcopies of a submittal”.
2. 01300-1.01, add “D. ENGINEER shall provide timely review of Shop Drawings and Samples. Timely review shall vary according to the complexity of the Shop Drawings and Samples submitted. Typically, ENGINEER shall strive to review Shop Drawings and Samples within 15 business days following receipt.”
3. 01300-1.02, D., delete the last sentence and replace with:  
  
“Accordingly, allowance is made for two reviews of each submittal (initial submittal plus one re-submittal to respond to the ENGINEER’s comments). The COUNTY shall

- withhold \$350 from the CONTRACTOR's payments for each 3rd and subsequent reviews of each submittal to compensate the ENGINEER for the additional reviews. Incomplete submittals not reviewed and returned to the CONTRACTOR per 1.02, A. above shall be counted as a submittal.”
4. 01300-1.02, E., add “CONTRACTOR shall incorporate product(s) or implement Work covered by submittal.”
  5. 01300-1.02, F., add “CONTRACTOR shall incorporate product(s) or implement Work covered by submittal, in accordance with the ENGINEER's notations.”
  6. 01300-1.02, G., add “CONTRACTOR shall make corrections or obtain missing portions of the submittal, and resubmit. Except for portions indicated as missing or incorrect, CONTRACTOR shall proceed with the incorporation of the product(s) or implement Work covered by the submittal, in accordance with ENGINEER's notations. The CONTRACTOR is not required to resubmit the entire package, but shall only resubmit the requested information.”
  7. 01300-1.02, H., add “CONTRACTOR shall not incorporate product(s) or implement Work covered by the submittal. CONTRACTOR shall resubmit the entire package.”
  8. Delete 01300-1.02, I.
  9. Delete 01300-1.05 Technical Manuals
  10. Replace paragraph 1.07, G. with paragraph 1.05 – AS-BUILT SURVEY of these Special Conditions.
  11. 01300-1.08: All references to “Record Drawings” shall be changed to “As-built Drawings”
  12. 01300-1.08 add:
    - “E. Contractor shall provide GPS coordinates in addition to the locating requirements specified in this section for all newly installed valves, fittings, plugs and caps, taps for testing, etc. Surveys, whether RTK GPS or conventional, shall be performed under the direct supervision of a Florida Licensed Surveyor and Mapper.
    - F. All as-built survey costs associated herein shall be included in the Mobilization item for this project.
    - G. All X-Y-Z coordinate data required for the Asset Data spreadsheets shall be tied to the 1983 Florida West State Plane coordinate system and the 1988 vertical datum. All horizontal and vertical data shall be accurate to 5/100ths of a foot or 1.5 centimeters.

- H. Contractors electing to use RTK GPS for field data collection are encouraged to tie into the Florida Permanent Reference Network maintained by the Florida Department of Transportation. Registration is required and all appropriate access information is available on the FPRN website.
  - I. GPS information shall be summarized on the as-built drawings. Each fitting shall be assigned a number and presented in a table referencing the fitting number, description, and GPS coordinates. Asset Spreadsheets can be downloaded from the Hillsborough County website: [Hillsborough County, FL - Official Website - Technical Manual](#)
  - J. The marked-up as-built drawings shall be submitted along with progress pay applications to ensure that the drawings are accurate and current. In the event that the marked-up drawings are not current or do not reflect the actual installation the pay application shall not be processed unless the current marked-up drawings are submitted.”
13. 01300-1.12, A. add “The Schedule of Values and S-curve shall be derived from a cost loaded schedule.”
14. Replace paragraph 1.12 C. with the following:
- “The Contractor shall not submit an unbalanced schedule of values which provides for overpayment to the Contractor on activities which would be performed first. The schedule of values shall be revised and resubmitted until acceptable to Project Manager. Once the schedule has been accepted by the Project Manager, the County reserves the right (at its option) throughout the Contract to require that the Contractor honor a particular price contained in the Schedule of Values, if the activity pertaining to it is being deleted or modified.”
15. 01300-1.17, 2, delete paragraph A.
16. 01300-1.17, 3. delete “Fire Protection Plan and Safety program.”
17. 01300-1.17, 4. delete “Bar Chart Submittal (Sect. 01310).”

**2.07 - Section 01310 – BAR CHART SCHEDULE**

- 1. Delete section in its entirety.

**2.08 - Section 01311 – CPM CONSTRUCTION SCHEDULE**

- 1. 01311-1.03, D., add:

“The schedule shall be formatted such that it is legible with the least amount of pages.”

- 2. 01311-1.06, delete “weekly”.

3. Change “bar chart” to read “Time Scale Logic Diagram” throughout the specification.

**2.09 - Section 01312 – MEASUREMENT AND PAYMENT**

1. Replace entire County standard section with 01312 of the Technical Specifications.

**2.10 - Section 01385 – COLOR AUDIO VIDEO CONSTRUCTION RECORD**

1. All references to audio-videotape/VHS shall be ignored. The recording shall be in DVD format.

**2.11 - Section 01530 – PROTECTION OF EXISTING FACILITIES**

1. 01530-1.03: Replace reference to Article 16 with SUSPENSION OF WORK AND TERMINATION

**2.12 – Section 01550 – ACCESS AND TEMPORARY ACCESS PROVISIONS**

1. 01550-1.08 E: Replace reference to Article 7 with CONTRACTOR’S RESPONSIBILITIES

**2.13 - Section 01590 – FIELD OFFICES, EQUIPMENT AND SERVICES**

1. All references to field office(s) shall be ignored. A field office is not required as part of this project.

**2.14 - Sections 204-931 and Sections 600-700**

1. Delete sections in their entirety

**2.15 - Section 331001 - WATER MAINS AND APPURTENANCES**

1. 331001-3.7.1.10, change “All external bolts, nuts, screws and washers shall be 304 or 316 stainless steel.” to read “All external bolts, nuts, screws and washers shall be 316 stainless steel.”
2. 331001-4.15.3, change “The mains shall be tested in accordance with the latest revision of AWWA C600 (for Ductile Iron) and C605 (for PVC) under an average hydrostatic pressure of not less than 150 psi, using a 300 psi gauge, for a minimum of two hours.” to read “The mains shall be tested in accordance with the latest revision of AWWA C600 (for Ductile Iron) and C605 (for PVC) under an average hydrostatic pressure of 100 psi, using a 200 psi gauge, for a minimum of two hours.”

**2.16 – GEOTECHNICAL REPORT**

See Attachment A for the Geotechnical Report developed by Test Lab, Inc. This report is being provided for the bidders /contractors general information only. The bidder or contractor is not relieved of any duty as otherwise required in these contract documents to examine the site or make any investigations or inquiries, including but not limited to, additional subsurface testing because the County provided this report. Any such examinations, investigations, inquiries or testing performed by the bidder or contractor shall be done at bidders or contractors expense. The County disclaims all responsibility for the findings and interpretations expressed in this report by Test Lab. The bidder or contractor shall make whatever subsurface and geotechnical investigations it deems necessary to comply with the requirements of the contract documents.

**END OF SECTION**