

**017-20 APPENDIX A - TECHNICAL SPECIFICATIONS
JEA ROUTINE HYDRANT MAINTENANCE**

PART 1 - GENERAL

1. GENERAL

The following supplemental specifications are intended to address the requirements and processes for servicing and inspection of JEA owned fire hydrants in a specified portion of the JEA service territory.

- a. Definitions
 - i. OWNER: JEA
 - ii. CONTRACTOR: Service and inspection provider for JEA owned fire hydrants for the OWNER.

PART 2 - EXECUTION

2. SCOPE

The intent of this contract is for the CONTRACTOR to conduct an inspection and perform routine servicing of JEA owned fire hydrants within assigned hydrant service routes in the JEA service territory. All assigned work will be grouped together geographically to reduce travel time between hydrants. To ensure all hydrants in the assigned area are in optimal condition this contract will require hydrant servicing, inspection, and a limited amount of abrasive blasting (bead/sand blasting). If a hydrant is in a condition where repairs are outside of the definition of routine maintenance, the hydrant condition should be recorded in the inspection report and reported to the contract administrator for further action.

Hydrant Service, Inspection, and Painting

The fire hydrant services shall include the following: grease/oil operating nut, grease and operate caps, low flow operational flush, exercise shut-off valve, check the static pressure at the hydrant, placement of hydrant locator reflector (if necessary), minor vegetation trimming around hydrants, and painting of hydrants. A hydrant service report shall be furnished and shall include the following information: manufacturer of fire hydrant, model of fire hydrant, production year of fire hydrant, fire hydrant condition, fire hydrant location including latitude and longitude coordinates, and any problems discovered.

- Pay item – Hydrants Serviced, Painted, and Inspected
Shall be paid for the total number of hydrants that have a completed hydrant inspection, a completed hydrant servicing, and properly prepped and painted. (New hydrants not requiring painting will not be paid in this pay item even if they are repainted, they will be considered in the next pay item)
- Pay item – Hydrants Service and Inspected – Not Painted
Some hydrants in the area may be new and do not need painting, however an inspection and servicing will be required. **DO NOT PAINT NEW HYDRANTS.**
- Pay item – Hydrant Inspected – Not serviced or painted
- Any hydrant found to be damaged beyond simple repair or found to be out of service shall be inspected fully and noted in the inspection report as “Out of Service” and notify the JEA inspector so that JEA forces can repair the hydrant. Payment will be made for the trip and data collection. No compensation for servicing or painting will be paid for these hydrants.

Abrasive blasting/Bead blasting

The CONTRACTOR shall provide all tools and devices associated with abrasive blasting to remove paint, rust, and other foreign debris down to the base metal of any hydrant deemed to have significant rust or degradation. The contractor will take care to not cause damage to private property. The contractor will be responsible for any damage to private property caused while performing this or any other task associated with this contract.

MATERIALS PROVIDED BY JEA

JEA will provide the following items to the CONTRACTOR: 1 gallon of paint for every 15 fire hydrants painted, hydrant locator reflectors, and fire flow rate indicators (ISO tags indicating flow rate Blue, Green, Red, and Black based on the JEA Hydrant Flow Model).

ACCESS TO CONTRACTOR'S OPERATING RECORDS

The Contractor shall provide immediate access to its operating records as required by JEA and applicable regulatory agencies.

FACILITY LOCATIONS

Services rendered by the Contractor may involve all JEA owned facilities within our service area (primarily in Duval County, but includes St. Johns and Nassau Counties)

WORK AND QUANTITIES

Payment for mileage and travel time is not allowed. Unit prices entered on the Bid Workbook should encompass the cost of all work performed to complete each job assigned. Quantities for this contract are not guaranteed and are subject to the availability of funds.

CONTRACTOR shall provide:

- The services listed above.
- Provide data collection hardware (Wi-Fi compatible tablet that can access the internet in the field)
- All ancillary services, equipment and materials to complete this work including planning, permits, and any required traffic control.

CONTRACTOR shall develop an organized, systematic approach for servicing and inspecting each existing fire hydrant. Prior to the field assessment, the CONTRACTOR will review OWNER's geographical information system (GIS) Geodatabase data develop plans for the servicing and field inspection. It is the responsibility of the CONTRACTOR to confirm locations of all fire hydrants. All collected data shall be recorded electronically in the field by the CONTRACTOR in a database format, updated daily and submitted weekly to OWNER for review. The software program utilized by the contractor is a web-based program controlled by JEA, where JEA will provide the contractor with a login ID and instructions to how to update the data form.

The following tasks associated with this project shall be provided by the CONTRACTOR and include, but are not limited to:

- Task 1 – Pre-Field Work Planning: Review of available field data to develop a logical and comprehensive schedule for servicing and inspections of each fire hydrant in coordination and with approval of OWNER. The inspection areas will be determined by OWNER. The CONTRACTOR's efforts will include, but are not limited to, planning for traffic control, access to secured areas, and emergency response planning if needed. Permits (if needed) will be coordinated with OWNER. Plan and schedule for servicing and inspections shall be submitted for review a minimum of two weeks prior to scheduled start of field work. This submittal shall also include the computer tablets proposed for use so that they may be setup and confirmed operational. All costs associated with this activity are to be incorporated into the various unit price line items as described in Section 4 (MEASUREMENT AND PAYMENT)
- Task 2 – Data Collection and Daily Reporting –The CONTRACTOR shall furnish electronic field-data collection equipment (i.e. computer tablet) for each QUALIFIED INSPECTOR to collect, store, and upload data formatted in a template approved by the OWNER. The data shall be uploaded and saved daily to the online project database provided by the OWNER. The data collection shall be divided into four sections. Digital photographs to include.
 - Pictures of existing site surroundings (hydrant the frame looking N, E, S, and W)
 - Picture of the hydrant prior to servicing and post servicing.
- CONTRACTOR shall furnish field data collection equipment (i.e. computer tablet) that will be synced daily. Equipment shall comply with the following requirements:
 - Connected to internet via Wi-Fi or cell phone network.

- Minimum storage space of sixty-four (64) gigabytes.
- Camera capable of taking digital photos.

The CONTRACTOR shall be responsible for completing all servicing and inspections by no later than September 15 of each fiscal year. If additional crews are required to meet the contract schedule, the CONTRACTOR shall schedule and coordinate these activities such that the established priority areas are completed in sequential order.