



**ST. TAMMANY PARISH**

PATRICIA P. BRISTER  
PARISH PRESIDENT

**June 18, 2019**

Please find the following addendum to the below mentioned BID.

**Addendum No.:** 2

**Bid#:** 19-27-2

**Project Name:** TU Fire Hydrant Replacement

**Bid Due Date:** June 28, 2019

**GENERAL INFORMATION:**

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1. The Bid Opening has been pushed to Friday, June 28, 2019. The time and location remain the same.
2. Delete Section 10 Specifications and Replace with Section 10 Specifications – REVISED (Attached). Section I. General Information, g. has been revised. Replaced hydrants must be fully operational and inspected by the Parish upon installation and prior to Contractor leaving the site.

**ATTACHMENTS:**

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1. Section 10 Specifications – REVISED.pdf

**<< End of Addendum # 2 >>**

## Section 10

### Specifications - REVISED

#### I. General Information

- a. All work to be completed during normal business hours: Monday – Friday between 8:00AM and 5:00 PM.
- b. Contractor shall maintain an accurate list (location, serial number etc.) of hydrants removed and replaced.
- c. Hydrants identified in Section 11 shall be replaced with hydrants meeting the specifications in Part II, below.
- d. Contractor shall provide all tools, labor, equipment, materials, supplies, etc. to perform this work.
- e. Contractor shall coordinate all work with Tammany Utilities (TU) and notify TU at least 72 hours in advance of any fire hydrant work.
- f. Any work requiring the issuance of a boil advisory shall be performed only on Mondays, Tuesdays or Wednesdays to accommodate sample collection and the operating hours of the State laboratory.
- g. *Replaced hydrants must be fully operational and inspected by the Parish upon installation and prior to Contractor leaving the site.*
- h. Lubricate caps and threads with approved lubricant.

#### II. Hydrants Specifications (5-1/4" Main Valve)

Fire hydrants shall meet or exceed all applicable requirements and tests of the latest revisions of ANSI/AWWA Standard C502. Additionally, fire hydrants shall meet the following requirements

1. Fire hydrants shall be rated for a working pressure of 250 Psig.
2. Fire hydrants shall be of the compression type, opening against the pressure and closing with the pressure.
3. Fire hydrants shall have a minimum 5-1/4" main valve opening and a minimum inside lower/upper barrel diameter (I.D.) of 7" to assure maximum flow performance. Pressure loss at 1,000 GPM shall not exceed 2.50 psi with 4.5" Pumper Nozzle.

4. Fire hydrants shall be three-way in design, having one pumper nozzle (4.5") and two (2) 2-1/2" hose nozzle(s). Nozzle thread type shall be National Standard Thread. Nozzles shall thread counterclockwise into hydrant barrel utilizing "o" ring seals. A suitable nozzle lock shall be in place to prevent inadvertent nozzle removal.
5. The bonnet assembly shall provide an oil reservoir and lubrication system that automatically circulates lubricant to all stem threads and bearing surfaces each time the hydrant is operated. This lubrication system shall be sealed from the waterway and any external contaminants by use of "o" ring seals. An anti-friction washer shall be in place above the thrust collar to further minimize operating torque. The oil reservoir shall be factory filled with a low viscosity; FDA approved non-toxic oil lubricant, which will remain fluid through a temperature range of -60<sup>0</sup> F. to +150<sup>0</sup> F.
6. The operating nut shall be a one-piece design, manufactured of ASTM B-584 bronze. It shall be pentagon/square in shape and the nut dimensions shall be as specified by the end-user. The operating nut shall be affixed to the bonnet by means of an ASTM B-584 bronze hold down nut. The hold down nut shall be threaded into the bonnet in such a manner as to prevent accidental disengagement during the opening cycle of the hydrant. The use of Allen head set screws as a means of retention is unacceptable. A resilient weather seal shall be incorporated into the hold down nut, for the purpose of protecting the operating mechanism from the elements.
7. The direction of the opening shall be as specified by the Parish during submittal review. An arrow shall be cast on the bonnet flange to indicate the specified opening direction.
8. The hydrant bonnet shall be attached to the upper barrel by not less than eight bolts and nuts and sealed by an "o" ring.
9. Hydrants shall be a "traffic-model" having upper and lower barrels joined at the ground line by a separate and breakable "swivel" flange providing 360<sup>0</sup> rotation of upper barrel for proper nozzle facing. This flange shall employ not less than eight bolts. The safety flange segments shall be located under the upper barrel flange to prevent the segments from falling into the lower barrel when the hydrant is struck. The pressure seal between the barrels shall be an "o" ring. The proper ground line shall be cast clearly on the lower barrel and shall provide not less than 18" of clearance from the centerline of the lowest nozzle to the ground.
10. The operating stem shall consist of two pieces, not less than 1 1/4" diameter (excluding threaded or machined areas) and shall be connected by a stainless steel safety coupling. The safety coupling shall have an integral internal stop to prevent the coupling from sliding down into the lower barrel when the hydrant is struck. Screws, pins, bolts, or fasteners used in conjunction with the stem couplings shall also be stainless steel. The top of the lower stem shall be recessed 2" below the face of the safety flange to prevent water hammer in the event of a "drive over" where a vehicle tire might accidentally depress the main valve.

11. The lower barrel shall be an integrally cast unit. The use of threaded on or mechanically attached flanges is deemed unacceptable. The hydrant bury depth shall be clearly marked on the hydrant lower barrel.
12. Composition of the main valve shall be a molded rubber having a durometer hardness of 95 +/- 5 and shall be reversible in design to provide a spare in place. Plastic (polyurethane) main valves are unacceptable. The main valve shall have a cross section not less than 1”.
13. Hydrants shall be equipped with (2) two drain valves, which drain the barrel when the hydrant is closed and seal shut when the hydrant is opened. These drain valves shall be an integral part of the one-piece bronze upper valve plate. They shall operate without the use of springs, toggles, tubes, levers or other intricate synchronizing mechanisms.
14. The upper valve plate, seat ring and drain ring (shoe bushing) must be ASTM B-584 bronze and work in conjunction to form an all bronze drain way. A minimum of two (2) internal and two (2) external drain openings are required. Drains ported through an iron shoe must be bronze lined.
15. The bronze seat ring shall thread into a bronze drain ring (or shoe bushing) providing a bronze to bronze connection. Seat rings shall be “o” ring pressure sealed
16. The shoe inlet size and connection type shall be as specified (flanged, MJ, etc.), having ample blocking pads for sturdy setting and the MJ connection must have two strapping lugs to secure the hydrant to piping. A minimum of six bolts and nuts is required to fasten the shoe to the lower barrel.
17. The interior of the shoe including the lower valve plate and stem cap nut shall have a protective coating that meets the requirements of AWWA C-550. If a stem cap nut is utilized, it must be locked in place by a stainless steel lock washer or similar non-corrosive device that will prevent the cap nut from backing-off during normal use.
18. The Security device must be integral to the fire hydrant and must not hinder or alter current established maintenance procedures. No external locks or special wrenches that would hinder the fire fighters access to water are allowed.
19. The Security device must prevent a contaminant from entering the distribution system through the fire hydrant by either preventing the introduction of the contaminant into the hydrant or preventing a contaminant to escape through the hydrant into the distribution system in a backflow or backsiphonage condition.
20. The device must not increase the overall fire hydrant pressure drop through the nozzle at 1000gpm by more than 1psi.

21. In order to insure proper compatibility all security devices must be designed, manufactured and installed by the hydrant manufacturer.
22. Hydrants shall be warranted by the manufacturer against defects in materials or workmanship for a period of ten years (10) from the date of manufacture. The manufacturing facility for the hydrant must have current ISO certification.
23. Hydrants must be cast, machined, assembled and tested in the USA.
24. The approved hydrant shall be a Mueller A423HS 250 or “prior approved equal”. Isolation/gate valve shall be of the same manufacturer.
25. All parts for field replacement shall be OEM (original Equipment Manufactured) or a prior approved equivalent.
26. All replacement fire hydrants shall be safety yellow in color.



**ST. TAMMANY PARISH**  
PATRICIA P. BRISTER  
PARISH PRESIDENT

**June 13, 2019**

Please find the following addendum to the below mentioned BID.

**Addendum No.:** 1

**Bid#:** 19-27-2

**Project Name:** TU Fire Hydrant Replacement

**Bid Due Date:** June 19, 2019

**GENERAL INFORMATION:**

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1. Project Classification has been changed to Highway, Street and Bridge Construction and/or Municipal and Public Works.

<< **End of Addendum # 1** >>