INVITATION TO BIDDERS

The City of Gatlinburg is accepting sealed bids on the renovation of the pumphouse for the Gatlinburg Golf Course.

Bids shall be received at Gatlinburg City Hall until **2:30 p.m., September 8, 2016** at which time they will be publicly opened and read aloud. Bids must be sealed with the bidder's name, address, bid opening time and date and the quotation "Pumphouse Renovation Bid" stated plainly on the outside.

Bid Documents may be obtained from Delea Patterson, AP/Purchasing, 1230 Parkway East, Suite 2, P.O. Box 5, Gatlinburg, Tennessee 37738, Telephone Number (865) 436-1409, email: deleap@gatlinburgtn.gov.

Technical and specification questions should be referred to Jeff Rumph, Superintendent, Gatlinburg Golf Course, Dollywood Lane, Pigeon Forge, Tennessee 37863, Telephone Number (865) 680-4836.

Bid specifications will also be available on the City of Gatlinburg website at www.gatlinburgtn.gov under "Out for Bids" tab. This bid tab can be found under Gatlinburg Government, and then select Purchasing. Bid results are posted in the same area as shortly after bid opening as possible.

No bid may be withdrawn for thirty (30) days. Bid results will be posted as soon as possible after bid opening on the City of Gatlinburg website (see above address).

The City of Gatlinburg reserves the right to waive informalities, to accept or reject any bid and/or any part thereof and to accept the bid deemed in the best interest of the City.

GENERAL PROVISIONS

Prices quoted shall not include Federal or State taxes, if any are applicable. The successful bidder shall furnish tax exemption forms, if required, with their invoices.

The prices quoted are that for which the materials or services will be delivered F.O.B. Pigeon Forge, Tennessee unless otherwise indicated.

Any additions, deletions, or variations from the following specifications must be noted.

Inspection of the materials or equipment will be made by an agent of the City of Gatlinburg, and if found defective or fails in any way to meet the terms of this agreement, it will be rejected. Rejected materials or equipment will be replaced at the expense of the bidder.

All technical specifications must accompany bid.

The City of Gatlinburg reserves the right to defer payment for thirty (30) days after delivery. The City of Gatlinburg also reserves the right to reject any and/or all bids.

The bidder agrees to indemnify the City of Gatlinburg from any and all liability, loss or damage the City may suffer as a result of claims, demands, costs, or judgements against it arising from any and all work under this agreement.

The bidder agrees to notify the City, in writing, within thirty (30) days, by registered mail, at the City's address as stated in this agreement, of any claim against the bidder on the obligations indemnified against.

It is the policy of the City of Gatlinburg not to discriminate on the basis of race, color, national origin, age, sex, or disability in its hiring and employment practices, or in admission to, access to, or operation of its programs, services and activities. With regard to all aspects of this contract, contractor certifies and warrants it will comply with this policy.

Vendor shall possess all of the necessary insurances and licenses required to perform this type and size of project.

Certain projects with a total cost of $25,000 or more require a TN Contractors license. This License #, Classification and Expiration date MUST be listed on the bid envelope. Bidders cannot use license of another to bid on any City of Gatlinburg project.

Bid Specifications for Pumphouse Renovation Project at the Gatlinburg Golf Course

Bidder must supply all equipment, installation materials and labor necessary to successfully complete the project as detailed in the project description. Bidder must also dispose any surplus materials.

Project description: In general, this project involves the removal of the old pump-station, repair of the existing wet-well plus installation and run-up testing of a new pump station.

Installation Specifications:

Contractor shall supply and provide material, labor and lifting equipment for removal of existing irrigation pump station and installing a new irrigation pump station. This will include the following:

Removal of pump house roof.

Disassembly of existing pump station including all electrical and mechanical equipment associated with pump station.

Removal of existing pump station from pump house.

Wet-well repair.

Installation of new pump station including all electrical and mechanical equipment associated with irrigation system. Electrical and mechanical equipment shall be sized in accordance with local codes and/or manufacturer recommendations. This will also include reconnecting of existing electrical disconnect and transformer for power supply to breaker box which controls power to building lights and fan, sprinkler controller power supply, pond fountain and power supply to greens fans.

Reinstallation of pump house roof.

Contractor shall provide references for at least 5 golf course irrigation pump station installations within the past 5 years.

Contractor shall be an authorized service provider for the pump station manufacturer.

Contractor shall have an authorized service provider within 100 miles of installation site.

Installation contractor and startup contractor shall be of the same company.

Specifications:

1) Wet-well Repair: Bidder must supply materials and labor to provide a "cured-in-place -pipe" lining in the existing wet-well inside the pump house and underground supply culvert running from the pump

house to the irrigation pond. The two linings should be connected and sealed in such a way as to form a water tight seal. Dimensions are as follows:

Wet-well: Diameter- 60 inches. Depth- 115 inches.

Intake pipe: Diameter- 16 inches. Approximate length- 95 feet.

Bidders may visit the site to take measurements and meet with Superintendent Jeff Rumph, 865-680-4836.

SCOPE

The cured-in-place-pipe (CIPP) shall provide flow capacity equal to or greater than 100% of the original pipe's flow capacity when new. The process is defined as the reconstruction by installation of a thermosetting resin impregnated flexible felt fiber tube, coated on one side with a thermoplastic, which is installed into the existing line utilizing a water column. Curing is accomplished by circulating hot water throughout the length of the inverted tube to cure the thermosetting resin into a hard impermeable pipe with the thermoplastic coating on the inside surface of the new pipe. The pipe shall extend the full length of the original pipe and shall provide a structurally sound, joint-less, close fitting, and corrosion resistant cured-in-place pipe.

MATERIALS

RESIN

A. The resin used shall be high-grade corrosion resistant polyester, vinylester or epoxy resin specifically designed for the cured-in-place pipe (CIPP) being installed. Only PREMIUM, NON-RECYCLED resin shall be used.

B. The resin vendor must be able to confirm that the grade of resin used has been extensively tested for corrosion resistance and has met the minimum requirements of ASTM F1216, latest revision.

TUBE

A. The CIPP liner shall be a polyester, vinylester or epoxy vacuum impregnated flexible woven or non-woven tube. The tube shall be inverted into position. The tube, once installed, shall be cured to form a hard impermeable pipe, by circulating hot water through the entire length of the tube. When cured, the liner shall extend over the designated length of the existing wet-well in a continuous, tight fitting and watertight pipe-within-a-pipe.

B. The outside of the tube, before installation, shall have an impermeable thermoplastic coating. This coating will form the inner layer of the finished pipe and is required for enhancement of corrosion, flow and abrasion properties.

GENERAL REQUIREMENTS OF CIPP

A. The finished pipe must be such that when the thermosetting resin cures, the total wall thickness will be a homogeneous and monolithic felt and resin composite matrix that will be chemically resistant to withstand internal exposure to domestic sewerage. When cured the CIPP must form a mechanical bond with the conduit.

REFERENCE SPECIFICATIONS

Installation and material tests of cured-in-place-pipe (CIPP) must meet the minimum requirements demonstrated in the following ASTM standards:

ASTM F-1216	Standard Practice for Rehabilitation of Existing Pipelines and Conduits by the Inversion and Curing of a Resin-Impregnated Tube
ASTM D-638	Test Method for Tensile Properties of Plastics
Tensile Strength	3,000 psi
ASTM D-790	Test Method of Flexural Properties of Unreinforced and Reinforced Plastics and Electrical Insulating Materials
Flexural Strength	4,500 psi
Flexural Modulus	250,000 psi

TESTING

Leakage testing shall be conducted by monitoring the water level in the down tube during the processing and cool down cycles prior to the reinstatement of laterals and shall be performed under the supervision of the Owner's representative or inspector. The Contractor shall furnish all equipment and personnel necessary to conduct the test.

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2) Pump station Replacement:

Specifications for new pump station:

-Pump station should include variable frequency drive vertical turbine pumps capable of producing 800 gallons per minute at 120 psi and operating on 480/3/60 electrical.

-8" Auto flush wye strainer with 1/8' perforated screen.

-Lake level control circuit: Float probe sensor.

Main pumps:

Motors:

-Should be (2) 40 hp vertical main motors: Weather Protected Type I (WP1), Class F insulation, high efficiency rated, non-reversing ratchets, motor space heaters, 4-Pole/1800 rpm, 1.15 SF GE motor with 3 year manufacturer's warranty.

Pumps:

-Should be (2) 10EJH vertical main pumps with high pressure cast ductile iron discharge heads with 416 SS line shafts, threaded steel column pipe, high pressure packing seals, bronze impellers, and galvanized steel basket strainers.

-Pressure maintenance pump: (1) 5 hp motor, Submersible motor, 2-Pole/3600 rpm, 1.15SF, operating in accordance with NEMA MG-1 and MG-2 . (1) 40S50-15 Pump, vertical submersible turbiine pressure maintenance pump with stainless steel construction of vital pump components.

Mechanical System

Should include the following:
-Variable Frequency Drive (VFD) manufactured by Mitsubushi with programmable logic controller (PLC) also manufactured by Mitsubishi.
-8.4 inch color touchscreen with ethernet communication capability.
-Circuit breaker motor protection.
-Dual mechanically interlocked contactors for main pump motors.
-NEMA 4 electrical enclosure with interior panel light.
-Heat exchanger for closed loop cooling of the electrical enclosure.
-4 inch Pressure relief valve with butterfly isolation valve.
-6 inch ANSI lugged station discharge isolation valve.
-Individual pump silent check valves and isolation valves.
-Flow meter spool with paddle wheel flow meter, fertigation run relay and optical isolator.
-Stainless steel transducer.
-Low water level safety float switch to protect against loss of prime.
-Individual pump air release valves.
-Hose bib connection for washdown.
-Integral wet well service hatch.
-Liquid filled suction and discharge pressure gauges.
-Complete skid and piping steel grit blasted and powder coated for maximum corrosion resistance.

Control System
Should include the following:
-Automatic alternation of main motors to equalize run time.
-Automatic pressure ramp-up capability.
-Electrical overload shutdown safety
-VFD fault shutdown
-Automatic system diagnostic utility
-Automatic low water shutdown safety.
-Individual pump lighted HOA switches.
-High pressure and low pressure discharge safeties.
-PLC or BFD emergency bypass.
-Manual mode.
-Main power line phase monitoring
-Individual motor overload protection safeties.
-Single phase and three phase surge protection safeties.
-Pump manager remote control and monitoring software compatible with Smart Pump (Requires Ethernet modems for communication).
-One year guarantee to be free from defects from date of startup, but no later than 16 months from date of invoice.

Delea Patterson, AP/Purchasing
City of Gatlinburg – City Hall
1230 Parkway East, P.O. Box 5
Gatlinburg, Tennessee 37738

We have reviewed the specifications and offer the following:

RE: Bid on Pumphouse Renovation for the Gatlinburg Golf Course

We have reviewed and comply with the Invitation and Specifications in this bid and offer the following prices, including delivery and installation.

$_____
Pumphouse Renovation

Estimated Date after Bid Award work can begin _____.

Estimated Day to Complete project _____.

Warranty Information._____.

Any deviations from these specifications are listed below (use back if necessary).
DEVIATIONS YES____ NO____
_____

_____

Signed/ _____

_____ _____
Name (Print) **Date**

_____ _____
Company Name **Telephone Number**

_____ _____
Address **Fax**

_____ _____
City State Zip **Email (if any)**

EACH BIDDER SHALL SUBMIT THIS STATEMENT OF COMPLIANCE WITH THEIR BID.

For Title VI and IX compliance, we ask for voluntary disclosure of the following information:

Gender: **Male** _____

Female _____

Race: **Caucasian** _____

African American _____

Other (please specify) _____

BIDDERS LIST

John Buchard and Son
6315 Baum Drive
Knoxville, TN 37919
quinn.bender@jbouchard.com