



**SPECIFICATIONS  
BID 52-14  
TWO NEW PUBLIC SUPPLY WELLS**

**THE CITY OF AVON PARK FLORIDA  
October 30, 2014**

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# NOTICE TO BIDDERS

INVITATION TO BID -- BID # 52-14

Sealed bids will be received by the City Manager, City of Avon Park, 110 E Main St, Avon Park, FL 33825 until December 15, 2014, no later than 2:00 PM at which time and place, bids received will be publicly opened in the office of the City Manager and read aloud for the following:

## WELL DRILLING SERVICES FOR TWO NEW PUBLIC SUPPLY WELLS

Bid Documents may be requested by visiting our Website at: <http://www.avonpark.cc> or by contacting the City of Avon Park, City Manager, Julian DeLeon @ (863) 452-4403. Bid Documents are required for bid submittal.

## ADDENDA

It is the Bidders responsibility to contact the City Manager – Julian DeLeon, 863-452-4403 prior to submitting a bid to ascertain if any addenda have been issued, to obtain all such addenda and return executed addenda with bid. Contractor questions will be accepted for addenda until November 19, 2014 at 4 PM in order to provide sufficient time for City to respond appropriately to addenda. The failure of a Bidder to submit acknowledgement of any addenda that affects the bid price(s) may be considered an irregularity and may be cause for rejection of the bid.

## INSURANCE & SAFETY REQUIREMENTS

All insurance shall be secured from or countersigned by an agent or Surety Company recognized in good standing and authorized to do business in the State of Florida.

The Contractor shall, within ten (10) days of notification of award and prior to commencement of work, take out and maintain in full force and effect minimum insurance coverage as stated in the specifications. This insurance shall remain in effect throughout the duration of the contract.

A certificate of existing insurance coverage should be submitted with the bid as proof of insurability; if the current coverage does not meet the bid requirements, then the Bidder should request an affidavit of insurability from the Bidder's insurance agent that certifies the requirements can and will be met. Failure to provide adequate insurance coverage may be cause for disqualification as non-responsive to the bid requirements.

All insurance policies shall be issued by responsible companies authorized to do business under the laws of the state, have at least a "B" policyholder's rating, have a financial rating of at least class VI in accordance with the most current Best's Key Rating Guide, and shall be satisfactory to the city.

## CONTRACTOR'S COOPERATION – E-Verify

The City of Avon Park will require of Contractor provide proof of legal working status of Contractor and/ or Contractor's employees and sub-contractors and their employees who are awarded this bid. Employers may avail themselves to E-Verify to help employer verify employment eligibility of new and existing hires and the validity of their Social Security numbers. Davis-Bacon Rules may apply. The City of Avon Park will require as part of the response to a bid solicitation that the successful bidder shall complete and submit an "Affidavit

Certification Immigration Laws". The City reserves the right to revoke bid award if Contractor does not allow for Contractor and employee verification and subcontractor and their employees verification prior to commencement of work and/or hires illegal workers after commencement of work within the service area. The City of Avon Park is not responsible in any way; for any Federal, State or local legal repercussions the Contractor may incur as a result of employee verifications.

**BID SUBMITTAL:**

An original and two (copies) (collated in sets) of the bid form supplied by the City of Avon Park and all required bid submittal data including any bidder generated specifications, drawings, etc., shall be enclosed within a sealed envelope with the words, "**SEALED BID No. 52-14 WELL DRILLING SERVICES FOR TWO NEW PUBLIC SUPPLY WELLS** " and the Bidder's name and address clearly shown on the outside thereof.

Mailed bids must be received in the office of the City Manager not later than the time set forth for bid opening. The City of Avon Park, Florida will not be responsible for any lost or late arriving bids sent via U.S. Postal Service or any other delivery service.

The City of Avon Park at its sole discretion reserves the right to waive technicalities or irregularities, to reject any or all bids, and/or to accept that bid which is in the best interest of the City.

Anyone requiring reasonable accommodation as provided for in the Americans with Disabilities Act or Section 286.26 Florida Statutes should contact the City Manager 863-452-4403.

# SECTION I Terms and Conditions

A. All responses shall become the property of the City.

B. **Florida Statutes** 287.087, on Drug Free Work Place, 287.133(3)(a) on Public Entity Crimes, and Section 287.134, on Discrimination, as a whole and/or as shown below, will be complied with:

**287.087, Preference to businesses with drug-free workplace programs:**

In order to have a drug-free workplace program, a business shall:

1. Publish a statement notifying employees that the unlawful manufacture, distribution, dispensing, possession, or use of a controlled substance is prohibited in the workplace and specifying the actions that will be taken against employees for violations of such prohibition.
2. Inform employees about the dangers of drug abuse in the workplace, the business's policy of maintaining a drug-free workplace, any available drug counseling, rehabilitation, and employee assistance programs, and the penalties that may be imposed upon employees for drug abuse violations.
3. Give each employee engaged in providing the commodities or contractual services that are under bid a copy of the statement specified in subsection (1).
4. In the statement specified in subsection (1), notify the employees that, as a condition of working on the commodities or contractual services that are under bid, the employee will abide by the terms of the statement and will notify the employer of any conviction of, or plea of guilty or no contend ere to, any violation of chapter 893 or of any controlled substance law of the United States or any state, for a violation occurring in the workplace no later than 5 days after such conviction.
5. Impose a sanction on, or require the satisfactory participation in a drug abuse assistance or rehabilitation program if such is available in the employee's community by, any employee who is so convicted.
6. Make a good faith effort to continue to maintain a drug-free workplace through implementation of this section.

**NOTE: PLEASE INCLUDE YOUR "DRUG FREE" STATUS AS PART OF THE GENERAL COMMENTS IN YOUR PROPOSAL OR WHERE INDICATED ON THE BID FORM.**

**287.133, Public entity crime; denial or revocation of the right to transact business with public entities:**

(2)(a) A person or affiliate who has been placed on the convicted vendor list following a conviction for a public entity crime may not submit a bid on a contract to provide any goods or services to a public entity, may not submit a bid on a contract with a public entity

for the construction or repair of a public building or public work, may not submit bids on leases of real property to a public entity, may not be awarded or perform work as a contractor, supplier, subcontractor, or consultant under a contract with any public entity, and may not transact business with any public entity in excess of the threshold amount of \$10,000 for a period of 36 months from the date of being placed on the convicted vendor list.

**287.134, Discrimination; denial or revocation of the right to transact business with public entities:**

(2)(a) An entity or affiliate who has been placed on the discriminatory vendor list may not submit a bid on a contract or provide goods and services to a public entity, may not submit a bid on a contract with a public entity for construction or repair of a public building or public work, may not submit bids on leases of real property to a public entity, may not award or perform work as a contractor, supplier, subcontractor, or consultant under contract with any public entity, and may not transact business with a public entity.

- C. Responses are due and must be received in accordance with the instructions given in the announcement page.
- D. The City will not reimburse respondent(s) for any costs associated with the preparation and submittal of any responses.
- E. Respondents, their agents and associates shall refrain from contacting or soliciting any City Official and that contact may be made ONLY with the individual(s) listed in this document for additional information and clarification.
- F. Due care and diligence has been exercised in the preparation of this document and all information contained herein is believed to be substantially correct; however, the responsibility for determining the full extent of the service required rest solely with those making response. Neither the City nor its representative shall be responsible for any error or omission in the responses submitted, nor for the failure on the part of the respondents to determine the full extent of the exposures.
- G. All timely responses meeting the specifications set forth in this document will be considered. However, respondents are cautioned to clearly indicate any deviations from these specifications. The terms and conditions contained herein are those desired by the City and preference will be given to those responses in full or substantially full compliance with them.
- H. Each respondent is responsible for full and complete compliance with all laws, rules and regulations including those of the Federal Government, the State of Florida and the City of Avon Park. Failure or inability on the part of the respondent to have complete knowledge and intent to comply with such laws, rules and regulations shall not relieve any respondent from its obligation to honor its response and to perform completely in accordance with its response.
- I. The CITY, at its discretion, reserves the right to waive minor informalities or irregularities in any responses, to reject any and all responses in whole or in part, with or without cause, and to accept that response, if any, which in its judgment will be in its best interest.
- J. Award will be made to the respondent whose submittal is determined to be the most advantageous to the City taking into consideration those responses in compliance with the requirements as set forth in this document. The City Council and Mayor reserves the

right to reject any and all responses for any reason or make no award whatsoever or request clarification of information from the respondents.

- K. Any interpretation, clarification, correction or change to this document will be made by written addendum issued by the Public Works Department. Any oral or other type of communication concerning this document shall not be binding.
- L. Responses must be signed by an individual of the respondent's organization legally authorized to commit the respondent's organization to the performance of the product(s) and/or service(s) contemplated by this document.
- M. Unless otherwise stated in the specifications, the following Insurance Requirements must be met before delivery of goods and services:

**Workers' Compensation:** Coverage is to apply for all employees for statutory limits in compliance with the law of the State of Florida and federal laws. The policy must include Employer' Liability with a limit of \$500,000 each accident, \$500,000 each employee, \$500,000 policy limit for disease.

**Commercial General Liability:** Occurrence Form Required: (Contractor/vendor) shall maintain commercial general liability (CGL) insurance with a limit of not less than \$500,000 each occurrence. If such CGL insurance contains a general aggregate limit, it shall apply separately to this location/project in the amount of \$1,000,000. Products and completed operations aggregate shall be \$1,000,000. CGL insurance shall be written on an occurrence form and shall include bodily injury and property damage liability for premises, operations, independent contractors, products and completed operations, contractual liability, broad form property damage and property damage resulting from explosion, collapse or underground (x, c, u) exposures, personal injury and advertising injury. Fire damage liability shall be included at \$100,000.

**Commercial Automobile Liability Insurance:** (Contractor/vendor) shall maintain automobile liability insurance with a limit of not less than \$1,000,000 each accident for bodily injury and property damage liability. Such insurance shall cover liability arising out of any auto (including owned, hired, and non-owned autos). The policy shall be endorsed to provide contractual liability coverage.

**Special Requirements / Evidence of Insurance:**

- a. A copy of the Contractor's / Vendor's current certificate of insurance MUST be provided with the response to this BID. A formal certificate shall be provided upon announcement that a Contractor / Vendor has been awarded the work as called for in this document. The Certificate(s) shall be signed by a person authorized by that insurer to bind coverage on its behalf. All Certificates of Insurance must be on file with and approved by the City before commencement of any work activities. The formal insurance certificate shall also comply with the following:

"The City of Avon Park", a Political Subdivision of the State of Florida and its Elected Officials, its Agents, Employees, and Volunteers" shall be named as an "Additional Insured" on all policies except Worker's Compensation. The policy shall provide a 30-day notification clause in the event of cancellation or modification to the policy. The City will be given notice prior to cancellation or modification of any stipulated insurance.

In the event the insurance coverage expires prior to the completion of the project, a renewal certificate shall be issued 30-days prior to said expiration date. Such notification will be in writing by registered mail, return receipt to:

Avon Park City Hall, 110 East Main Street, Avon Park, FL 33825.

- b. It is the responsibility of the contractor to insure that all subcontractors comply with all insurance requirements.
  - c. It should be remembered that these are minimum requirements, which are subject to modification in response to high hazard operations.
- N.** If the goods or services being bid are for an annual or a semi-annual contract period then Interlocal Agreements between The City of Avon Park, Highlands County, other State or City agencies, the City of Sebring and the Town of Lake Placid, and the Highlands City School Board, allow those entities to purchase goods and services through the City's bids so long as such purchases will not interfere with the timely delivery of goods and services to the City in strict conformity with all specifications of its bids. Each governmental entity will issue its own purchase orders for all purchases made and will be responsible for all payments thereof. Highlands City reserves the right to direct the successful bidder to prioritize its delivery of goods and services to the City ahead of delivery to other governmental entities purchasing under the City's bids.
- O.** If submitting a response for more than one bid, each bid must be in a separate envelope and correctly marked.

## **SPECIAL CONDITIONS:**

1. City of Avon Park, a political subdivision of the State of Florida, requests the submittal of bids from vendors that are interested in providing WELL DRILLING SERVICES FOR TWO NEW PUBLIC SUPPLY WELLS in accordance with the requirements of this technical specification.
2. **ADDITIONS/REVISIONS/DELETIONS:** Additions, revisions or deletions to the general conditions, specifications or bid price sheets that change the intent of the bid will cause the bid to be non-responsive and the bid will not be considered. The Purchasing/Accounts Payable Specialist, the City Manager and the Public Works Coordinator shall be the judge as to whether or not any addition, revision or deletion changes the intent of the bid.
3. **PERFORMANCE OF WORK:** The work required under this bid shall be performed by the entity submitting the bid..
4. **SEALED BIDS:** All bid submittals must be completed and submitted in a sealed parcel. **(DO NOT INCLUDE MORE THAN ONE BID SUBMITTAL PER ENVELOPE. BID SUBMITTAL SHALL INCLUDE ONE (1) ORIGINAL AND TWO (2) COPIES OF THE ORIGINAL.)** The **Original** bid submittal(s) shall be submitted on the forms provided by City. All bids are subject to the conditions herein; failure to comply will subject bid to rejection.
5. **SITE INSPECTION** - Bidders shall examine site and shall determine conditions under which work will be done. Failure to comply with this requirement will not relieve bidder from responsibility to complete the work described in the contract documents.
6. **COMMENCEMENT AND COMPLETION DATES.** Contractor hereby agrees to commence Work under this contract within 60 calendar days from the date of the issuance of a Purchase Order by the City of Avon Park and full execution of this contract and shall be responsible to achieve final completion of the Project within 210 calendar days thereafter. Contractor shall be solely responsible for acquiring and delivery of all items listed in the Contract Documents.

## **SECTION II Specifications and Scope of Services FOR BID# 52-14**

### **WELL DRILLING SERVICES FOR TWO NEW PUBLIC SUPPLY WELLS**

Description of bid: The City of Avon Park is seeking to procure the construction of two new public supply wells, an 18 inch well at the Bell Street Water Treatment Plant (WTP) and a 12 inch well at the Glenwood Water Treatment Plant (WTP).

The City may build one well or build both wells at the same time. This will depend on costs and available funding. If the City builds both well, the contractor may offer a discount in mobilization costs.

The plans and specification are available on [www.avonpark.cc](http://www.avonpark.cc) under “open bids”, and shall be adhered as part of the construction.

#### **GENERAL SCOPE OF WORK**

- 1) THE WELL DRILLER SHALL SUPPLY ALL LABOR, EQUIPMENT AND MATERIALS TO CONSTRUCT THE TWO PROPOSED NEW PUBLIC SUPPLY WELLS, AN 18 INCH WELL AT THE BELL STREET WTP AND A 12 INCH WELL AT THE GLENWOOD WTP.
- 2) THE WELL DRILLER SHALL SUPPLY ALL LABOR, EQUIPMENT AND MATERIALS TO DEVELOP EACH WELL UNTIL THE PUMP DISCHARGE WATER IS FREE OF SUSPENDED MATERIALS AND MAINTAINS A STEADY YIELD AND PUMPING RATE.
- 3) THE WELL DRILLER SHALL PROVIDE ALL LABOR EQUIPMENT AND MATERIALS TO FLOW TEST THE WELL AND MEASURE THE MAXIMUM STEADY YIELD AND DRAWDOWN OF THE WELL.
- 4) THE WELL DRILLER SHALL PROVIDE A GENERATOR TO SUPPLY THE ELECTRICAL POWER NEEDS FOR ALL OPERATIONS IN DRILLING AND TESTING THE WELL.
- 5) THE WELL DRILLER SHALL BE RESPONSIBLE FOR MAINTAINING A SAFE WORK SITE, REPAIR OF ANY DAMAGE CAUSED BY THE WELL DRILLER AND THE CLEANUP OF THE WORK SITE FOLLOWING THE WELL DRILLING ACTIVITIES.

Site Contact Person: Julian Deleon, City Manager  
Tel. (863) 452-4429  
Fax. (863) 452-4428  
E-mail: [jdeleon@avonpark.cc](mailto:jdeleon@avonpark.cc)

## **SPECIFICATIONS :**

All work in the drilling/construction of the two wells shall be in compliance with all applicable laws and rules, including but not limited to: AWWA A100-06; Chapter 373, Part III FS REGULATION OF WELLS; Chapter 40D-3 FAC REGULATION OF WELLS; Chapter 62-532 FAC WATER WELL PERMITTING AND CONSTRUCTION REQUIREMENTS, Chapter 62-531 FAC WATER WELL CONTRACTOR LICENCING REQUIREMENTS.

Any Specification not specifically listed in these documents shall be in conformance with the regulatory and reference documents listed in the previous paragraph. The requirements in these documents may be more strict than those found in the above listed documents, but under no circumstances is the intention to be less strict.

### **1. WELL DRILLING CONTRACTOR QUALIFICATIONS:**

- a) The WELL DRILLING AND CONSTRUCTION SERVICES required under this bid shall be performed by the entity submitting the bid. The 12 inch well shall be capable of producing 2,250 gallons per minute at the lowest practical drawdown. The 18 inch well shall be capable of producing 3,250 gallons per minute at the lowest practical drawdown.
- b) The WELL DRILLER shall be qualified, experienced and properly licensed in accordance to Chapter 62-531 FAC to perform the work. The WELL DRILLING CONTRACTOR shall have a minimum of 10 years experience of drilling wells in the Central Florida area and shall provide documentation of that experience with the bid. A minimum of six references or clients with similar wells shall be provided.

### **2. PERFORMANCE OF THE WORK**

- a) The City of Avon Park's Water Use Permit (WUP) #20006029.010 has been Modified by Letter to allow construction of these two wells. The application for Modification by Letter and the Approved Letter Modification are attached and shall be complied with in performance of the work.
- b) The WELL DRILLING CONTRACTOR shall be responsible for all other required permits and shall be responsible for all records, logs, data, samples etc. as required and shall supply the well completion report as required.

- c) The WELL DRILLING AND CONSTRUCTION shall be in conformance with the requirements of a Public Drinking Water Supply Well. All materials shall be approved to be in contact with Public Drinking Water and shall be NSF/ANSI/AWWA approved for Public Drinking Water. The steel well casing material, installation, fluids, grouting, sealing, testing, pumping, etc., shall meet or exceed the requirements of AWWA A100-06, Chapter 62-532 FAC and Chapter 40D-3 FAC.
- d) The Southwest Florida Water Management District shall be notified as required and no operations requiring presence of a SWFWMD representative shall be performed without the presence of a SWFWMD representative or written authorization otherwise.

**3. WELL CONSTRUCTION AND CASING:**

- a) The 12 inch diameter and 18 inch diameter Standard Weight Class Seamless Electric Resistance Welded Pipe shall meet or exceed the requirements of ASTM A53/A53M-12, ASTM A106, API 5L Grade B and AWWA A100-06.
- b) The pipe shall be manufactured and tested in the United States, by U.S. Steel Corporation or other approved American manufacturer. Foreign manufactured pipe is not acceptable.
- c) The casing pipe shall have a minimum wall thickness of 0.375 inches. The welded steel casing shall be new and free from defect, dents or blemish. The casing shall be straight and true and not out of round.
- d) The casing shall be installed round, straight and plumb so that there will be no interference with the installation, alignment, operation or future removal of the pump to be used on a permanent basis. The steel casing shall be welded in accordance with the standards of AWWA C206. Casing installation shall be in compliance with AWWA A100-06 Section 4.3 Material Requirements, Section 4.7 Well Construction and the rules of the Southwest Florida Water Management District and the Florida Department of Environmental Protection for Public Drinking Water Wells
- e) The Well Drilling Contractor shall construct the proposed wells according to the surface diameter and casing depth specifications below as stated in the Modified Water Use Permit (copy attached). The casing shall be continuous from land surface to the minimum depth stated and is specified to prevent the unauthorized interchange of water between different water bearing zones. If a total depth is listed below, this is an estimate, based on best available information, of the depth at which high producing zones are encountered. However, it is the Well Drilling Contractor's responsibility to have the water in the well sampled during well construction, before reaching the estimated total depth. Water sampling shall be for Compliance with the Federal Safe Drinking Water Act, the Florida Safe

Drinking Water Act, the Primary and Secondary Drinking Water Standards. Such sampling is necessary to ensure that the well does not encounter water quality that cannot be utilized by the City of Avon Park, and to ensure that withdrawals from the well will not cause salt-water intrusion. All depths given are in feet below land surface. Each of the two well casings shall terminate a minimum of three feet above ground level at the well.

District ID No. 15, Permittee ID No. Glenwood #3, having a nominal diameter of 12 inches, with a minimum casing depth of 425 feet, with a 12 inch open hole drilled to an estimated total depth of 1,200 feet.

District ID No. 16, Permittee ID No. Bell #3, having a nominal diameter of 18 inches, with a minimum casing depth of 425 feet, with an 18 inch open hole drilled to an estimated total depth of 1,200 feet.

- f) The well casings shall terminate a minimum of three feet above the ground level at the well and shall be equipped with a sealable opening that will allow introduction of disinfectants and measurement of static water level and drawdown or artesian pressure.
- g) Drilling fluids, grouting and sealing materials, use methods and installation methods shall comply with those deemed acceptable by AWWA A100-06 Section 4.3 Material Requirements, Section 4.7 Well Construction and the rules of the Southwest Florida Water Management District and the Florida Department of Environmental Protection for Public Drinking Water Wells.
- h) No fuel, oil, hydraulic fluids or any other unapproved contaminant may be introduced into the well at any time.
- i) Fluids and grout shall be prepared with fresh, uncontaminated drinking water.
- j) Whenever work is interrupted or stopped such as overnight or weekends and when the construction is completed prior to placement of the pump, the WELL DRILLING CONTRACTOR shall cover the well with a substantial cover to prevent tampering and entrance of foreign materials. The covering shall be in compliance with the requirements of Chapter 40D-3 FAC.
- k) The water and other fluids and materials used in the entire process shall be contained and controlled such that the discharge will not damage the surrounding property. The City has property surrounding the water plants and wells which may be bermed up and/or excavated to contain and control the discharge. The WELL DRILLING CONTRACTOR shall supply all labor, equipment and materials to control and contain the discharge, clean up the area, dispose of any materials, repair any damage done onsite or offsite and restore the site to original line, grade and sod.

#### 4. **WELL DEVELOPMENT:**

- a) The WELL DRILLING CONTRACTOR shall supply all labor, equipment and materials, including but not limited to pumps, generators, compressors, calibrated flow meters to fully develop the well. The CONTRACTOR shall provide the equipment for measuring and recording the water level when the pump is installed and during the pump testing. The equipment shall be capable of measuring the water level, through the full range of drawdown, including 10 feet below the maximum drawdown.
- b) The well shall be developed by a combination of at least three of the multiple methods available (chemical, over pumping- washing/backwashing, mechanical surging, air surging/pumping and jetting) to repair damage done to the formation immediately surrounding the borehole and to improve near well permeability and stability to maximize the well yield.
- c) The development process shall remove any clay smear or mud cake on the aquifer surface, flush out any drilling fluids introduced during the drilling process and remove any loose particles and sediment from the near well area.
- d) Well Development shall continue as long as the well's specific capacity continues to increase significantly.
- e) The well development and testing pump(s) shall have capacity in excess (a minimum of 25%) of the anticipated head and desired well yield rate for each well - 2,250 gallons per minute for the 12 inch well and 3,250 gallons per minute for the 18 inch well.
- f) The well development pumping shall be performed at varying discharge rates.
- g) The pump discharge shall be of sufficient diameter and length size and length to handle the pumping rate and direct the flow to a proper discharge point where the discharge can be controlled by the WELL DRILLING CONTRACTOR in the location prepared by the Contractor. The WELL DRILLING CONTRACTOR shall provide all pipes and valves required to control the flow discharged from the pumps during all operations. Contractor shall provide calibrated flow meters capable of an accuracy to within 3 percent or less of the actual flow.
- h) Well development shall continue until the sand content is less than 1 mg/l and the turbidity does not exceed 1NTU, at all times when being pumped for a duration of 2 hours minimum at the desired yield rate for each well - 2,250 gallons per minute for the 12 inch well and 3,250 gallons per minute for the 18 inch well. No less than 10 measurements of the sand content and turbidity shall be taken and recorded at equal intervals during the testing. The sand content of the water shall be tested by installation of a Rossum Sand Tester, as recommended by AWWA A100-06.
- i) As recommended in AWWA A100-06 the following data records shall be kept
  1. Quantity and description of material brought into the well.

2. Static and pumping water levels.
3. Methods of measurement.
4. Duration of each operation.
5. Observation of results.
6. Pump discharge rates and specific capacity.
7. Sand content as a function of pump discharge rate and time.
8. Sand content as a function of pump discharge rates and specific capacity.
9. All other pertinent information.

## 5. **WELL PERFORMANCE TESTING:**

- a) The CONTRACTOR shall provide all labor equipment and materials, including but not limited to pumps, generators, compressors, flow meters, valves, etc. and the equipment for measuring and recording the water level when the pump is installed and during the pump testing. The equipment shall be capable of measuring the water level, through the full range of drawdown, including 10 feet below the maximum drawdown.
- b) A Step Drawdown test shall be performed on each well, with a minimum of 4 steps: 50%, 75%, 100% and 125% of the stated required yield for each well. Pumping at each step shall be long enough to indicate a straight line trend on a plot of drawdown versus logarithm of time since pumping began.
- c) After the step drawdown test and after sufficient time has passed for the well water level to recover to approximate static levels a constant rate pumping test shall be performed to determine the trend of drawdown versus prolonged time of pumping. The pump shall run at the desired yield rate stated for each well for a period long enough to indicate a straight line trend on a plot of water level versus the logarithm of time since pumping began.
- d) Recovery time should be such that straight line trend is observed on a plot of water level versus the logarithm of time since pumping began.
- e) In accordance with AWWA A100-06 Section E.4.3. Water level measurements shall be obtained before, during and after the pumping test in order to acquire static water levels, pumping water levels and a profile of the recovery water level from the pumping water level to the original state. The measurement frequency of water levels during pumping shall be such that adequate definition of the drawdown trend is achieved.
- f) The sand content shall be recorded during all test to ensure compliance with the sand content requirement.

## 6. **WATER SAMPLING**

- a) The WELL DRILLING CONTRACTOR shall supply all labor, equipment, pumps, generators and any other materials needed for water quality sampling during the well construction and completion. Water sampling shall be for Compliance with the Federal Safe Drinking Water Act, the Florida Safe Drinking Water Act, the Primary and Secondary Drinking Water Standards. Such sampling is necessary to ensure that the well does not encounter water quality that cannot be utilized by the City of Avon Park, and to ensure that withdrawals from the well will not cause salt-water intrusion.

**7. WELL DISINFECTION:**

- a) The WELL DRILLING CONTRACTOR shall supply all labor, equipment, pumps, generators and any other materials needed for the general disinfecting required at well completion.
- b) The well shall be disinfected in compliance with AWWA A100-06 Section 4.9 Well Disinfection, Chapter 62-555.315 (6) (a) FAC and the rules of the Southwest Florida Water Management District and the Florida Department of Environmental Protection for Public Drinking Water Wells
- c) Per AWWA A100-06 4.9.2, the chlorine solution for the disinfection shall be of sufficient volume and strength that a concentration of at least 50 mg/l of available chlorine shall be available throughout the entire water depth of the well. The chlorine solution shall remain in the well for a minimum of 12 hours.
- d) Per AWWA A100-06 4.9.2.1 if the samples collected after the above procedure show bacteriological contamination the WELL DRILLING CONTRACTOR shall prepare and apply to the entire depth of water in the well a total volume of the chlorine solution of at least 100 mg/l of available chlorine equal to at least four times the volume of water in the well, for a minimum of 24 hours.

**8. BACTERIOLOGICAL TESTING**

- a) The WELL DRILLING CONTRACTOR shall supply all labor, equipment, pumps, generators and any other materials needed for the bacteriological surveys and evaluations required at well completion and pump installation(s).
- b) Following the after construction general disinfection, a bacteriological survey shall be conducted as set forth in Chapter 62-555.315 (6) (b) FAC.
- c) Following disinfection if new pumping equipment has been installed a bacteriological evaluation of the well shall be conducted as set forth in Chapter 62-555.315 (6) (c) FAC.

**Exhibit-A, OFFICIAL BID FORM  
 BID # 52-14  
 TWO NEW PUBLIC SUPPLY WELLS**

ITEM #	DESCRIPTION	ITEMIZED PRICING
WELL#15	GLENWOOD STREET WTP WELL – COMPLETE 12 INCH WELL AND OTHER SERVICES AS DESCRIBED IN THE BID DOCUMENTS	
ALTERNATE 1	AMOUNT TO DEDUCT FOR THE CONTRACTOR BEING ALLOWED TO CONNECT THE WELL CONSTRUCTION EQUIPMENT TO THE CITY ELECTRICAL POWER SUPPLY AT THE WATER PLANT, CONNECTIONS ARE THE RESPONSIBILITY OF CONTRACTOR, AND SHALL NOT INTERFERE WITH CITY UTILITY OPERATIONS .	
ALTERNATE 2	AMOUNT TO DEDUCT IF THE CITY DOES THE BACTERIOLOGICAL SAMPLES WITH THE WELL DRILLING CONTRACTOR SUPPLYING THE SAMPLING PUMP.	
WELL #16	BELL STREET WTP WELL – COMPLETE 18 INCH WELL AND OTHER SERVICES AS DESCRIBED IN THE BID DOCUMENTS	
ALTERNATE 3	AMOUNT TO DEDUCT FOR THE CONTRACTOR BEING ALLOWED TO CONNECT THE WELL CONSTRUCTION EQUIPMENT TO THE CITY ELECTRICAL POWER SUPPLY AT THE WATER PLANT, CONNECTIONS ARE THE RESPONSIBILITY OF CONTRACTOR, AND SHALL NOT INTERFERE WITH CITY UTILITY OPERATIONS .	
ALTERNATE 4	AMOUNT TO DEDUCT IF THE CITY DOES THE BACTERIOLOGICAL SAMPLES WITH THE WELL DRILLING CONTRACTOR SUPPLYING THE PUMP	
ALTERNATE 5	AMOUNT TO REDUCE IN MOBILIZATION IF THE CITY PROCEEDS WITH CONSTRUCTION OF BOTH WELL, IDENTIFIED AS WELL #15 AND #16	
TOTAL	TOTAL FOR TWO WELLS <b>NOT INCLUDING ALTERNATES</b>	

**This “Official Bid Form” MUST BE USED AND COMPLETED in submitting bids.**

BID SUBMITTED BY: \_\_\_\_\_  
 Name of Company Address

\_\_\_\_\_  
 Signature Title City State Zip

\_\_\_\_\_  
 Name as above printed or typed Date bid Submitted

The City reserves the right to accept or reject any or all bids or any parts thereof that may be considered to be in the best interest of the City of Avon Park.

**Attachment “B”**  
**Unauthorized Alien(s)**

The Contractor agrees that unauthorized aliens shall not be employed nor utilized in the performance of the requirements of this solicitation. The City shall consider the employment or utilization of unauthorized aliens a violation of Section 274 A (e) of the Immigration and Naturalization Act (8U.S.C. 1324a). Such violation shall be cause for unilateral termination of this Agreement by the City. As part of the response to this solicitation (bid), the successful contractor will complete and submit the attached form “Affidavit Certification Immigration laws”.

Employers may avail themselves of a program by the U.S. Immigration and Customs Enforcement called E-Verify. E-Verify is an Internet based system operated by the U.S. Citizenship and Immigration Services (USCIS), part of the Department of Homeland Security (DHS), in partnership with the Social Security Administration (SSA). E-Verify is currently free to employers. E-Verify provides an automatic link to Federal databases to help employers verify employment eligibility of new hires, existing employees and the validity of their Social Security numbers.

If your company wishes to avail itself of this program, you can register online for E-Verify at <https://e-verify.uscis.gov/enroll/StartPage.aspx?JS=YES>

Which provides instructions for completing the registration process. At the end of the registration process you will be required to sign a Memorandum of Understanding (MOU) that provides the terms of agreement between you as employer, the SSA and the DHS. An employee who has signatory authority for the employer can sign the MOU. Employers can use their discretion in identifying the best methods by which to sign up their locations for E-Verify. To find out more about E-Verify, please visit [www.dhs.gov/e-verify](http://www.dhs.gov/e-verify) or contact the USCIS at 1-888-464-4218

ATTACHMENT "B" (continued)

AFFIDAVIT CERTIFICATION

IMMIGRATION LAWS

BID NO.: 52-14 PROJECT NAME: \_\_\_\_\_

The CITY OF AVON PARK will not intentionally award city contracts to any contractor who knowingly employs unauthorized alien workers constituting a violation of the employment provisions contained in Section 274A (e) of the Immigration and Naturalization Act (INA) (8 U.S.C. 1324a).

The City of Avon Park may consider the employment by any Contractor of Unauthorized Aliens a violation of section 274A(e) of the INA. Such violation by the recipient of the employment provisions contained in Section 274A(e) of the INA shall be grounds for the unilateral cancellation of the contract by the City of Avon Park.

The bidder attests that they are fully compliant with all applicable immigration laws (Specifically to the 1986 Immigration Act and subsequent amendments).

Company Name: \_\_\_\_\_

Signature: \_\_\_\_\_ Title: \_\_\_\_\_ Date: \_\_\_\_\_

State of: \_\_\_\_\_ County of: \_\_\_\_\_

The forgoing instrument was signed and acknowledged before me this \_\_\_\_\_ day  
of \_\_\_\_\_, 20\_\_\_\_, by \_\_\_\_\_ who has  
produced \_\_\_\_\_ as identification  
Type of Identification and Number

Notary Public Signature: \_\_\_\_\_

Printed name of Notary Public: \_\_\_\_\_

Notary Commission Number/Expiration: \_\_\_\_\_

**REFERENCE FORM**

**INSTRUCTIONS:** Please provide three applicable projects which demonstrate the contractor's ability and experience Best Management Practices projects.

**Project Owner:** \_\_\_\_\_

**Contact Person:** \_\_\_\_\_

**Phone:** \_\_\_\_\_

**Cost of Project:** \_\_\_\_\_

**Project Scope of Services:** \_\_\_\_\_

**Project Owner:** \_\_\_\_\_

**Contact Person:** \_\_\_\_\_

**Phone:** \_\_\_\_\_

**Cost of Project:** \_\_\_\_\_

**Project Scope of Services:** \_\_\_\_\_

**Project Owner:** \_\_\_\_\_

**Contact Person:** \_\_\_\_\_

**Phone:** \_\_\_\_\_

**Cost of Project:** \_\_\_\_\_

**Project Scope of Services:** \_\_\_\_\_