

## INVITATION TO BID

The City of Alcoa will be accepting separate sealed bids for an annual blanket purchase authorization of PRE-CAST SEWER PARTS & ACCESSORIES until 10:00 a.m., Tuesday, April 17, 2018 at the office of the Alcoa Purchasing Agent, 725 Universal Street, Alcoa, Tennessee, 37701.

Bids may be submitted via U.S. Mail / UPS / FedEx, etc., hand delivered, or e-mailed to [coasealedbid@cityofalcoa-tn.gov](mailto:coasealedbid@cityofalcoa-tn.gov). Regardless of the mode, the Bidder shall be responsible for the early delivery of their bid. Mailed or hand-delivered Bids should be in a sealed envelope and labeled "Pre-Cast Sewer Parts & Accessories, RFB 20960, Bid Enclosed, April 17, 2018 10:00 a.m." The subject line of e-mailed bids shall state the same. Bids received after the deadline will be unopened and discarded.

Bids shall be addressed to:

Alcoa Public Works & Engineering  
Attn. Larry Harper, Purchasing Agent  
725 Universal Street  
Alcoa, TN 37701

All purchases are F.O.B. City of Alcoa, TN.

The City reserves the right to accept or reject any Bid, to accept a Bid containing variations from these specifications if the Bid so merits, to negotiate Bid with the lowest bidder prior to acceptance, and to accept partial Bids. Bids must be submitted on the Bid form issued by the City and must be completed (in ink) and signed accordingly.

The City of Alcoa reserves the right to waive any formality in any bid, to reject any or all bids, and to accept the best bid for the City as determined by City Officials. The City also reserves the right not to enter into any contract as a result of this bid invitation.

Questions regarding this bid may be directed to Larry Harper, Purchasing Agent, via telephone (865) 380-4822 or e-mail [lharper@cityofalcoa-tn.gov](mailto:lharper@cityofalcoa-tn.gov). Any questions regarding this bid shall be submitted no later than 48 hours prior to the bid deadline.

This solicitation has been developed in accordance with Title VI of the Civil Rights Act of 1964 which provides that no person shall, on the grounds of race, sex, age, national origin, or disabling condition, be excluded from participation in, be denied the benefits of, or be subjected to discrimination under any program or activity receiving federal financial assistance.

Thank you in advance for your interest in doing business with the City of Alcoa.

Sincerely,



Purchasing Agent

## **INSTRUCTIONS TO BIDDERS**

### **Bid Evaluation**

In addition to the bid amount, additional factors will be considered as an integral part of the bid evaluation process, including, but not limited to:

- A. The bidder's experience, reputation, efficiency, judgment, and integrity.
- B. The quality, availability and adaptability of the requested products or services.
- C. The bidder's ability to provide future maintenance and/or services.
- D. Any other applicable factors as the City determines necessary and appropriate (which may be requested by the city prior to award).

### **Award of Contract**

The City holds the right, in its judgment, to award the contract to the bidder(s) which it feels is in the best interest of the City. If a contract is to be awarded, the Contractor/Vendor selection shall be based in whole or in part on the bid evaluation noted above. No bid shall be withdrawn for a period of sixty (60) days subsequent to the opening of bids without the consent of the City of Alcoa.

### **Laws, Permits and Regulations**

The Contractor shall comply with all State and Local laws, ordinances, regulations and requirements applicable to work hereunder. If the Contractor ascertains at any time that any requirement of this Contract is at variance with applicable laws, ordinances, regulations, or other requirements, she/he shall promptly notify the City of Alcoa in writing.

### **Cancellation of Award**

The City reserves the right to cancel the award of any contract at any time before the execution of such contract by all parties without any liability against the City. The Vendor is advised that if in the event appropriated funds are legitimately unavailable for this product in successive fiscal years, such purchase orders resulting from this bid are null and void.

### **Cooperative Purchasing**

Unless stated otherwise, vendor agrees that it shall be permissible for other governments in Tennessee to purchase these items or services at the same price. Freight charges can be adjusted to reflect differences in delivery costs.

### **Delivery**

The successful Bidder shall contact the Purchasing Agent for delivery instructions. The approved product shall not be shipped under any circumstances without prior delivery instructions.

### **Iran Divestment Act**

By submission of this bid, each bidder and each person signing on behalf of any bidder certifies, and in the case of a joint bid each party thereto certifies as to its own organization, under penalty of perjury, that to the best of its knowledge and belief that each bidder is not on the list created pursuant to § 12-12-106.

**PRECAST CONCRETE MANHOLE & STORM SEWER PARTS & ACCESSORIES  
CITY OF ALCOA - PUBLIC WORKS DEPARTMENT**

**GENERAL SCOPE AND SPECIFICATIONS**

**1. SCOPE OF WORK**

This Contract is intended for the supply of precast concrete manholes and storm sewer parts and accessories for the City of Alcoa for the time period shown in the Bid Form. Prices bid shall include all shipping and handling for delivery to the City of Alcoa Service Center, or other designated location within the service area of the City of Alcoa. Upon receipt of order, vendor agrees to deliver ordered products within ten (10) working days.

Contacts for purchases under this contract are the division supervisors of the Alcoa Public Works Department.

**2. MANHOLES**

**(a) General Requirements**

Manholes shall be precast reinforced concrete meeting the requirements of ASTM Standard C478, unless otherwise stated in the following specifications. The exterior of all concrete components shall be sealed with 2 layers of bituminous coating.

1. Manhole internal diameter shall be 48 inches for 18-inch and lesser diameter pipe and 60 inches for 21-inch to 30-inch diameter pipe. Larger diameters may be specified.
2. Wall thickness shall be a minimum of 5 inches.
3. The minimum compressive strength of precast manhole risers, bases, cone or top sections, and grade rings shall be 4,000 psi.
4. The access opening in cone or top sections shall be a minimum of 24 inches.
5. Joints: The reinforced concrete manhole base and riser sections, excepting grade rings, shall be formed with male and female ends, so that when the manhole base, riser, and top are assembled they will make a continuous and uniform manhole.
6. Lift eyes or holes may be provided in each section for the purpose of handling but must not protrude through the concrete walls.

**(b) Precast reinforced concrete manhole bases:**

1. The base riser sections shall be precast with integral floors, including precast inverts for the specified inlet(s) and outlet.
2. Bases for pipe 10 inches diameter or less shall have a minimum outside height of 24 inches.
3. Bases for 12-inch through 18-inch diameter pipe shall have a minimum outside height of 36 inches.
4. Heights of bases for pipes greater than 18 inches in diameter shall be according to the manufacturer's specifications, subject to prior approval of the City.

**(c) Precast Reinforced Concrete Tops:**

Precast tops shall be of the following three types:

1. Concentric cone
2. Eccentric cone
3. Flat slab top

**(d) Precast Reinforced Concrete Grade Rings:**

1. Grade ring wall thickness shall be a minimum of 5 inches.
2. Grade rings shall be either 2 inches, 4 inches, or 6 inches in height.
3. The combined height of grade rings shall be a maximum of 12 inches.

**(e) Manhole Steps:**

1. Manhole steps shall be aluminum fabricated from aluminum alloy 6061, T6.
2. Manhole steps shall be corrosion resistant, free from sharp edges, burrs, or other projections which may be a safety hazard and shall be of sufficient strength to have a live load of 300 pounds imposed at any point.
3. The minimum width of cleat shall be 10 inches.
4. The legs and struts shall be of sufficient length for the cleat to project a minimum clear distance of 4 inches from the wall when the step is securely imbedded in the manhole wall.
5. The top surface of the cleats shall be designed to prevent foot slippage.
6. Steps should be positioned vertically over a pipe inlet or outlet and at a maximum spacing of 16 inches.
7. Steps shall be the same size, projection, spacing, and alignment in each manhole.

**(f) Section Joints:**

Section joints: Base risers, section risers, and tops shall be designed for confined O-ring gasket joints meeting the latest requirements of ASTM Standard C-443 or flexible butyl resin sealant meeting the latest requirements of AASHTO Standard M198-B.

**(g) Openings:**

Openings in the base section wall shall be cored for the required number and size of pipes and shall be manufactured as to allow up to 20 degrees axial deflection.

**(h) Pipe Entrance Couplings:**

1. For sanitary sewer applications, a watertight pipe to manhole gasket system using a flexible molded neoprene compound boot meeting the latest requirements of ASTM Standard C443 or rubber meeting the latest requirements of ASTM Standard C923 shall be installed for each core opening furnished in base riser sections.

- i. Gaskets shall be designed to allow up to 20 degrees axial deflection.
  - ii. Internal expanding bands or power sleeves shall be of a type 304 stainless steel meeting the latest requirements of ASTM Standard C923 and shall be designed to allow contraction around the boot to clamp and seal the boot to the pipe.
2. Other specially designed flexible products may be approved by the Alcoa Public Works Department.
3. For storm sewer applications, manhole openings may be cored, with no pipe to manhole gasket system required. For such, the storm sewer pipe will be sealed to the manhole using mortar

**4. REINFORCED CONCRETE PIPE AND ACCESSORIES**

**(a) Storm Sewer Pipe:**

1. Reinforced concrete pipe (RCP) and accessories shall be of the bell and spigot design and shall comply with AASHTO M-170 or ASTM C-76.
2. RCP shall be supplied in lengths of four (4) feet unless otherwise specified at the time of order.
3. Vendor shall supply flared, precast, reinforced concrete end walls. Lift holes shall be cast into the end walls for ease of lifting and installation.

**(b) Precast Catch Basins:**

1. Precast concrete catch basins shall be rectangular in section and shall be designed to withstand traffic loads typical of city streets.
2. Catch basins shall be sized to accommodate the largest diameter inlet or outlet specified. Catch basin design shall allow for an inlet or outlet in any one or more of the structure's four sides.
3. The top section of the catch basin shall be rectangular in section and shall have a rectangular opening of approximately 24" x 36".

For your information and convenience the TDOT LG Guidelines bidding requirements web address is listed below.

<http://www.tdot.state.tn.us/local/Documents/LocalAgencyGuidelines.pdf>



	6"	8"	10"	12"	15"	18"	24"	30"	36"	42"	48"
Cost for cored pipe openings (ea.)											
Cost for flexible pipe connector (ea.)											

REINFORCED CONCRETE PIPE AND ACCESSORIES

Description	12"	15"	18"	24"	30"	36"	42"	48"
Reinforced Conc. Pipe (l.f.)								
R.C. Flared Endwalls (ea.)								
Base Section, Precast Conc. Catch basin w/ largest dia. pipe opening shown (ea.)								
Flat top section w/ rectangular opening (ea.)								
Vertical extensions for catch basin (v.f.)								

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Authorized Representative's Signature

\_\_\_\_\_  
Authorized Representative's Name (Printed)

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Company

\_\_\_\_\_  
Address

\_\_\_\_\_  
Telephone

\_\_\_\_\_  
Date