

\$20.00

CITY OF SAN ANGELO REQUEST FOR BIDS

Water Distribution

Warehouse Inventory

RFB No. WU-03-18



City of San Angelo
72 West College Avenue
San Angelo, Texas 76903

Submittal Deadline
February 21, 2018 / 2:00 PM, Local Time

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CITY OF SAN ANGELO

PURCHASING DIVISION

72 West College Avenue, San Angelo, Texas 76903
Tel: (325) 657-4219

INVITATION TO BID

General

The City of San Angelo Water Utilities Department is seeking bids for the Water Distribution Warehouse Inventory.

All items must meet or exceed the specifications as published. Any deviations/alternatives from the brand names specified will require prior approval from the City's Water Utilities Department as meeting or exceeding the product specification standards signified by brands listed. Approval of alternative product must be obtained five (5) working days prior to bid opening. Alternative bids which did not receive prior approval will be considered non-responsive.

Route all requests for specification approval through the Purchasing Division at sapurch@cosatx.us.

Document Availability

Bid Documents are available in the Purchasing Division or may be downloaded from the City's website at www.cosatx.us. To locate the documents on the website go to:

- Bid Information > RFB: WU-03-18/ Water Distribution Warehouse Inventory

Digital Format

If bid specifications are obtained in digital format in order to prepare a bid, the bid must be submitted in hard copy according to the instructions contained in this bid package. If, in its bid response, vendors make any changes whatsoever to the published bid specifications, the bid specification **as published** shall control. Furthermore, if an alteration of any kind to the bid specification is discovered after the contract is executed and is or is not being performed; the contract is subject to immediate cancellation without recourse.

Required Response

The City requires a response to any Request for Bid (RFB) notifications mailed to potential vendors. Should a company choose not to bid on the project, then in order to remain on the City of San Angelo's potential vendors list a "No Bid Reply" form must be submitted.

Deadline and Delivery Location

Sealed RFB submittals must be received no later than **February 21, 2018, 2:00 PM, Local Time**. The clock located in Purchasing will be the official time. Bids received after the bidding deadline, regardless of the mode of delivery, will be not be considered.

It is the sole responsibility of the vendor to ensure that the sealed RFB submittal arrives in the Purchasing Office by the specified deadline, regardless of method chosen by the firm for delivery.

Faxed or electronically submitted bids will not be accepted.

Copies

Submit: One (1) unbound original (binder clips acceptable), two (2) bound copies (binders, staples or binder clips are acceptable), and one (1) copy in PDF format on USB Flash Drive of all required bid forms.

Delivery Address

City of San Angelo
Purchasing Division, RFB: WU-03-18
72 W. College Ave., Suite 330
San Angelo, Texas 76903

Mark Sealed Bid Envelope: "RFB NO. WU-03-18/ Water Distribution Warehouse Inventory"

Addenda

Should specifications be revised prior to the deadline for submission of the bid, the City's Purchasing Division will issue addenda addressing the nature of the change and post them on the City's website. Vendors should **acknowledge any addenda and return the form with their bid package**. Vendor is responsible for checking the City's website to determine if any addenda have been issued prior to submitting a bid. Failure to consider all addenda will be at the vendor's risk.



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Rejection of Bids

The City of San Angelo reserves the right to reject all bids, to waive informalities or irregularities, and to reject non-conforming, non-responsive, or conditional bids.

Points of Contact

Candice Blake, Interim Manager

Purchasing Division

City of San Angelo

72 W. College Ave.

San Angelo, Texas 76903

sapurch@cosatx.us

(325) 657-4219

Allison Strube, Director

Water Utilities

City of San Angelo

301 W. Beauregard Ave.

San Angelo, Texas 76903



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1. INSTRUCTIONS TO VENDORS

1.1. Interpretations

All questions about the meaning or intent of the bid documents, including specifications shall be submitted to the Purchasing Division in writing. Replies will be issued by addenda and posted on the City's website. Questions received less than a week prior to the date for bid submittals will not be answered. Only questions answered by formal written addenda will be binding. Oral interpretations or clarifications will be without legal effect. The bid invitation number must appear on all correspondence, inquiries, etc. It is the vendor's responsibility to ensure all addenda have been considered prior to bidding.

1.2. Restrictions on Communications

Vendors should not communicate with: 1) elected City officials and their staff regarding the RFB from the time the RFB has been released until the contract is posted as a City Council agenda item; and 2) City employees from the time the RFB has been released until the contract is awarded. These restrictions extend to "thank you" letters, phone calls, emails and any contact that results in the direct or indirect discussion of the RFB and/or bid submitted by vendor. Violation of this provision by vendor and/or its agent may lead to disqualification of vendor from consideration.

Exceptions to the Restrictions on Communication with City employees include:

1. Private (non-business) contacts with the City by the vendor's employees acting in their personal capacity;
2. Casual social contacts that do not include mention of the RFB;
3. Vendors may submit written questions concerning this RFB to the email listed below up to a week prior to submission due date. Questions received after the stated deadline will not be answered;

It is required that all questions be sent by email to sapurch@cosatx.us. **Please ensure the RFB Number and title are in the subject line.** Questions submitted and the City's responses will be published in the form of addenda to the City's web site at www.cosatx.us. Vendor is responsible for calling the City or reviewing the website to determine if any addenda have been issued prior to their submittal. Only questions answered by formal addenda will be binding;

4. Vendors may provide responses to questions asked of them after responses are received and opened.
5. Upon completion of the evaluation process, vendors shall receive a notification letter indicating the recommended firm and anticipated City Council agenda date. Vendors desiring a review of the solicitation process may submit a written request no later than five (5) calendar days from the date the letter was sent. The letter will indicate the name and address for submission of requests for review.

1.3. Corrections, Additions, or Deletions

Corrections, additions, or deletions to any portion of the RFB will be in the form of a written addendum.

1.4. Confidentiality

All bids submitted shall remain confidential. After award, bids will be made available for public inspection. The City shall not be responsible for the confidentiality of any trade secrets or other information contained or disclosed in the bid unless clearly identified as such.

1.5. Acceptance of Bid Content

Before submitting a bid, each vendor shall make all investigations and examinations necessary to ascertain all conditions and requirements affecting the performance of the contract, and to verify any representations made by the City upon which the bid will rely. If the vendor receives an award, failure to have made such investigation and examinations will in no way relieve the vendor from its obligation to comply in every detail with all provisions and requirements.

1.6. Specifications

The specifications herein shall be the basis of comparison. Where a definite item is specified, it is not the intention to discriminate against any product made by another manufacturer, but rather, the intention is to set a definite standard, style, and function. Vendors are required to quote equipment that will meet or exceed the minimum or maximum specifications herein.



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1.7. Substitutions

It is the intention of the City of San Angelo to purchase equipment similar or equal to that specified. **Variation from the specification must be noted in bid by vendor. Absence of noted variations will be interpreted to mean that the item quoted is in exact accordance with the specification.** Each vendor, if not bidding on specified equipment, is required to furnish with the bid, a complete detailed description, and specifications of each item upon which they are bidding, supported by the manufacturer's catalog, photographs, guarantee, complete name, and any other pertinent information. An "or equal" item must reflect the general appearance, design, dimensions, or color of the item specified. Samples, if required, shall be furnished free of expense to the City. Samples not used or destroyed in examination and testing will be returned to the vendor, if requested, at the vendor's expense. Each sample must be marked with vendor's name, address, and RFB reference. Approval of substitute "or equal" items remains with the City, and in all cases is final. In the event an item is not accepted as an "or equal", the City may allow the vendor to supply the remaining items meeting specifications at the bid price.

1.8. Materials

The vendor certifies all materials and equipment supplied resulting from this bid invitation shall be new and unused, unless noted elsewhere in the invitation.

1.9. Bid Items

Vendors are expected to examine all specifications, drawings, standard provisions, and instructions. Failure to do so will be at the vendor's risk. Bids are to be submitted on each item and total extended, however more than one bid may be submitted on products meeting the specifications.

1.10. Authorized Signature

Bids must show vendor name, address, and be manually signed. The person signing the bid must have authority to bind their firm in a contract. Any erasures or other changes must be initialed by the person signing the bid.

1.11. Modification or Withdrawal of Bids

Bid pricing **CANNOT** be altered or amended after the closing time. Bids may be modified or withdrawn prior to the closing hour and date, by written notice to the Purchasing Division. A bid may also be withdrawn in person by a vendor or its authorized agent, provided its identity is made known and he signs a receipt for the bid. No bid may be withdrawn after the closing time and date without acceptable reason in writing and with approval of the Purchasing Division.

1.12. Prices

Vendor is to quote its lowest and best price Free On Board (F.O.B.) destination on each item to shipping location in San Angelo, Texas unless otherwise specified in the invitation. Pricing shall include packaging, transportation, unloading, and any trade and cash discounts will be taken, if earned. Bids must be firm, however if a vendor believes it necessary to base its price on price adjustment, such a bid may be considered, but only as an alternate bid. Pricing is to be submitted as quantity per unit specified with extended totals, however in the event of a discrepancy in extension, the unit prices shall govern. Pricing shall be entered on the Bid Sheet in ink or typewritten.

1.13. Delivery Date

Bid must show the number of calendar days required to place the materials at the place of destination under normal conditions. Failure to specify delivery date or state unrealistically short or long delivery dates may cause the bid to be disregarded.

1.14. Default in Delivery

The vendor must keep the City advised at all times as to the status of the order. When delivery delay can be foreseen, the Vendor shall give prior notice to the Purchasing Division who shall have the right to extend the delivery date, if reasons for delay are reasonable and acceptable. Default in promised delivery, without acceptable reasons, or failure to meet specifications without remedy, shall cause the City to purchase the goods elsewhere and charge any increase in cost and handling to the defaulting Vendor. This does not limit any other remedies to the City for damage entitled under the Uniform Commercial Code.

1.15. Delivery Times

Deliveries will be accepted only during normal working hours, i.e.; 8:00 a.m. to 12:00 p.m. and from 1:00 p.m. to 5:00 p.m., Monday thru Friday, unless prior arrangements have been made. For large orders, 24 hour notice to the receiving department is required to eliminate delays in delivery.

1.16. Delivery of Goods

Deliveries for WU-03-18 should be made to 1948 St. Ann Street, San Angelo, Texas. Due to limited warehouse space, quantities shall be delivered as determined by the City of San Angelo and the successful



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vendor in order to maintain bid price. Vendors shall be able to make delivery of items ordered in accordance with delivery times stated above. ***Time is of the essence in the delivery of this product.***

1.17. Evaluation Factors

It is **not** the policy of the City to purchase on the basis of low bids alone. In evaluating bids, the following considerations shall be taken into account to determine the "best value" for the City:

- A. the purchase price, including reasonable payment discounts;
- B. the reputation of the vendor and of the vendor's goods or services;
- C. the quality of the vendor's goods or services;
- D. the extent to which the goods or services meet the City's needs;
- E. the vendor's past relationship with the City;
- F. the impact on the ability of the City to comply with laws and rules relating to historically underutilized businesses;
- G. the total long-term cost to the City to acquire the vendor's goods or services; and,
- H. Any other relevant factor specifically listed in the request for bids.

1.18. Disqualification

The vendor may be disqualified for any of the following reasons:

- A. The vendor is involved in any litigation against the City of San Angelo;
- B. The vendor is in arrears on any existing contract or has defaulted on a previous contract with the City;
- C. The vendor is debarred, suspended, terminated, or otherwise excluded from or ineligible covered transactions by any federal, state, or local government entity or agency;
- D. The bid is not received by the bid submittal deadline; or,
- E. The bid is not executed by a person authorized to enter into a contract binding on the vendor.

1.19. Copies of Bid Tabulation Results

To obtain bid tabulation results, download from the City's website www.cosatx.us > Bid Information > RFB: WU-03-18 / Water Distribution Warehouse Inventory.

1.20. Award of Contract

The City reserves the right to accept or reject any or all bids, and to waive any informalities or irregularities in the RFB process. The City is an equal opportunity employer.

1.21. Partial Award

Vendors may furnish pricing for all or any portion of the bid invitation. UNLESS vendor specifies otherwise in its bid, the City may award contracts for any item or group of items listed.

1.22. Reservations

The City expressly reserves the right to accept, reject, or cancel all bids AND:

- A. Waive any defect, irregularity, or informality in any bid or bidding procedure;
- B. Extend the bid closing time and date;
- C. Reissue a bid invitation or RFB;
- D. Procure any item by other means; or,
- E. Increase or decrease the quantity specified, unless the vendor specifies otherwise.

1.23. Acceptance

The vendor's signature on the bid constitutes an offer to sell under the terms and conditions contained in the bid WU-03-18. The Notice of Award (draft follows) offered to the vendor, constitutes acceptance of the offer to sell and consummates the binding contractual agreement, as well as the delivery of a Purchase Order with the valid signature of the procurement official.



Project: RFB Title (RFB# WU-03-18)

Mr. Name
Company Name
Address
City, Texas Zip code

This letter shall serve as the official **Notice of Bid Award** to _____ (“Vendor”) on the above referenced RFB. Attached is a copy of the bid tab results. The contract for RFB: WU-03-18 was awarded by the City Council on _____, in the amount of \$ _____.

The contract documents consist of RFB: WU-03-18, your responsive bid, the award and your acceptance. The term of the contract will be for, effective _____.

Please execute the acceptance of the Bid Award below and return it to my attention. If you have any questions, please feel free to contact me at _____.

Sincerely,

Name & Title of Contract Administrator
Department

Acceptance

The foregoing Bid Award is hereby accepted on behalf of _____,

Provider, by _____, the undersigned, its _____, on this
(print name) (office held or owner)

_____ day of _____, 2018.



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2. TERMS AND CONDITIONS

2.1. Order Placement

No order shall be accepted without a Purchase Order and all invoices must reflect the Purchase Order number.

City's obligation is payable only and solely from funds available for the purpose of this purchase. Lack of funds shall render this contract null and void to the extent funds are not available and any delivered but unpaid for goods will be returned to vendor by City. Accepting orders without a Purchase Order number shall be at the risk of the vendor.

2.2. Vendor to Package Goods

The vendor will package goods in accordance with good commercial practice. Each shipping container shall be clearly and permanently marked as follows:

- A. Vendor's name and address.
- B. Consignee's name and address.
- C. Purchase Order number and supply agreement number, if applicable.
- D. Container number and total number of containers, e.g., box 1 of 4 boxes.
- E. The number of the container bearing the packing slip. Vendor shall pay cost of packaging unless otherwise provided. Goods shall be suitably packed to secure lowest transportation costs and to conform to the requirements of common carriers and any applicable specifications. City's count or weight shall be final and conclusive on shipments not accompanied by packing lists.

2.3. Shipment under Reservation Prohibited

Vendor is not authorized to ship the goods under reservation and no tender of a bill of lading will operate as a tender of goods.

2.4. Title and Risk of Loss

The title and risk of loss of the goods shall not pass to City until City actually receives and takes possession of the goods at the point or points of delivery.

2.5. Delivery Terms and Transportation Charges

F.O.B. destination, unless delivery terms are specified in vendor's bid, or actual costs, whichever is lower. If the quoted delivery terms do not include transportation costs, the City shall have the right to designate what method of transportation shall be used to ship the goods. Delivery may be a consideration in the award when shown to be a benefit to the City.

2.6. No Replacement of Defective Tender

Every tender or delivery of goods must fully comply with all provisions of this contract as to the method and place of delivery, quality and the like. If a tender is made which does not fully conform, this will constitute a breach and vendor will not have the right to substitute a conforming tender. Where the time for performance has not yet expired, the vendor may reasonably notify City of its intention to cure and may then make a conforming tender within the contract time.

2.7. Place of Delivery

The place of delivery shall be that set forth in the block of the purchase order entitled "Ship To". The terms of this agreement are "no arrival, no sale".

2.8. Invoices and Payments

Vendor shall submit separate invoices on each Purchase Order that indicate the Purchase Order number and supply agreement, if applicable. Invoices shall be itemized and include a copy of the bill of lading and the freight waybill, when applicable. Payment terms will be outlined in the attached draft contract.

Payment may be withheld by City, at the discretion of the City, to vendor until all required documents pertaining to the sale are received by the City.

2.9. Gratuities

The City may, by written notice to the vendor, cancel this contract without liability to vendor if it is determined by the City that gratuities were offered from an agent or representative of the vendor to any officer or employee of the City with a view toward securing a contract or securing favorable treatment with respect to the awarding or amending, or the making of any determinations in respect to the performing of such contract. In the event this contract is canceled by City, remedies to recover or withhold the amount of the cost shall be incurred by vendor in providing such gratuities.



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2.10. Special Tools and Test Equipment

If the price stated on the face hereof includes the cost of any special tooling or special test equipment fabricated or required by vendor for the purpose of filling this order, such special tooling equipment and any drawings or related documents thereto shall become the property of the City and to the extent feasible shall be identified by the vendor as such.

2.11. Warranty-Price

The price to be paid by the City shall be that contained in vendor's bid which vendor warrants to be no higher than vendor's current prices on orders by others for products of the kind and specifications covered by this agreement for similar quantities under similar or like conditions and methods of purchase. In the event vendor breaches this warranty, the prices of the items shall be reduced to the vendor's current prices on orders by others, or in the alternative, reduced to the vendor's current prices on orders by others, or in the alternative, City may cancel this contract without liability to vendor for breach or vendor's actual expense.

The vendor warrants that no person or selling agency has been employed or retained to solicit or secure this contract upon an agreement or understanding for commission, percentage, brokerage, or contingent fee excepting bona fide employees of bona fide established commercial or selling agencies maintained by the vendor for the purpose of securing business. For breach or violation of the warranty, the City shall have the right in addition to any other right or rights to cancel this contract without liability and to deduct from the contract price, or otherwise recover the full amount of such commission, percentage, brokerage, or contingent fee.

2.12. Warranty-Product

Vendor shall not limit or exclude any implied warranties and any attempt to do so shall render this contract voidable at the option of the City. Vendor warrants that the goods furnished will conform to the specifications, drawings, and descriptions. Any warranties will become into effect on the contract effective date.

2.13. Safety Warranty

Vendor warrants that the product sold to City shall conform to the standards promulgated by the U.S. Department of Labor under the Occupational Safety and Health Act (OSHA). In the event the product does not conform to OSHA standards, City may return the product for correction or replacement at the vendor's expense. In the event vendor fails to make the appropriate correction within a reasonable time, correction made by City will be at vendor's expense.

2.14. No Warranty by City against Infringements

As part of this contract for sale, vendor agrees to ascertain whether goods manufactured in accordance with the specifications attached to this agreement will give rise to the rightful claim of any third person by way of infringement or the like. City makes no warranty that the production of goods according to the specification will not give rise to such a claim, and in no event shall City be liable to vendor for indemnification in the event that vendor issued on the grounds of infringement or the like. If vendor is of the opinion that an infringement or the like will result, he will notify City to this effect in writing within two weeks after the signing of the agreement. If City does not receive notice and a claim of infringement is made, vendor will indemnify, defend, and hold harmless City, its Council members, officials, agents, consultants, and employees free and harmless from and against any and all claims, suits, judgments, costs, penalties, fines, damages, and attorneys' fees and expenses asserted by any person or persons. If vendor, in good faith, ascertains that production of the goods in accordance with the specifications will result in infringement or the like, this contract shall be void.

2.15. Right of Inspection

City shall have the right to inspect the goods at delivery before accepting them. Acceptance of the goods upon delivery should in no way constitute a waiver of any right or privilege contained with this contract or under law.

2.16. Cancellation

City shall have the right to cancel for default all or any part of the undelivered portion of the order if vendor breaches any of the terms hereof including warranties of vendor or if the vendor becomes insolvent or commits acts of bankruptcy. Such right of cancellation is in addition to and not in lieu of any other remedies which City may have in law or equity.

2.17. Termination

Performance under this contract may be terminated in whole, or in part by the City in accordance with this provision. Termination performance hereunder shall be effected by the delivery to vendor of a "Notice of Termination" specifying the extent to which performance under this contract is terminated and the date upon which such termination becomes effective.



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2.18. Force Majeure

Neither party shall be held responsible for losses resulting if the fulfillment of any terms or provisions of this contract is delayed or prevented by any cause not within the control of the party whose performance is interfered with, which by the exercise of reasonable diligence said party is unable to prevent.

2.19. Assignment-Delegation

No right or interest in the contract shall be assigned nor shall any delegation of any obligation made by vendor be valid without the written permission of the City. Any attempted assignment or delegation by vendor shall be wholly void and totally ineffective for all purposes unless made in conformity with this paragraph.

2.20. Waiver

No claim or right arising out of a breach of this contract can be discharged in whole or in part by a waiver or renunciation of the claim or right unless the waiver or renunciation is supported by consideration and is in writing signed by the aggrieved party.

2.21. Modifications

This contract can be modified or rescinded only by a writing signed by both of the parties or their duly authorized agents.

2.22. Interpretation-Parol Evidence

This writing is intended by the parties as a final expression of their agreement and is intended as a complete agreement for dealings between the parties and no usage of the trade shall be relevant to supplement or explain any term used in this agreement. Acceptance or acquiescence in a course of performance rendered under this agreement shall not be relevant to determine the meaning of this agreement even though the accepting or acquiescing party has knowledge of the performance and opportunity for objection. Whenever a term defined by the Uniform Commercial Code is used in the agreement, the definition contained in the Code is to control.

2.23. Applicable Law

This agreement shall be governed by the Uniform Commercial Code. Whenever the term "Uniform Commercial Code" is used, it shall be construed as meaning the Uniform Commercial Code as adopted in the State of Texas as effective and in force on the date of this agreement.

2.24. Advertising

Vendor shall not advertise or publish, without City's prior consent, the fact that City has entered into this contract, except to the extent necessary to comply with proper requests for information from an authorized representative of the Federal, State, or Local government.

2.25. Right to Assurance

Whenever one party to this contract in good faith has reason to question the other party's intent to perform, he may demand that the other party give written assurance of its intent to perform. In the event that a demand is made and no assurance is given within five (5) days, the demanding party may treat this failure as an anticipatory repudiation of the contract.

2.26. Equal Employment Opportunity

Vendor agrees that during the performance of its contract it will:

- Treat all applicants and employees without discrimination as to race, color, religion, sex, national origin, marital status, age, or handicap.
- Identify itself as an Equal Opportunity Employer in all help wanted advertising or request. The vendor shall be advised of any complaints filed with the City alleging that vendor is not an Equal Opportunity Employer. The City reserves the right to consider its reports from its human relations administrator in response to such complaints in determining whether or not to terminate any portion of this contract for which purchase orders or authorities to deliver have not been included; however, the vendor is specifically advised that no Equal Opportunity Employment complaint will be the basis for cancellation of this contract for which a purchase order has been issued or authority to deliver granted.

All vendors must be Equal Opportunity Employers. Disadvantaged and Minority vendors are encouraged to participate.



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2.27. Conflict Of Interest

Vendor agrees to comply with the conflict of interest provisions of the City Of San Angelo Charter and Code of Ordinances. Vendor agrees to maintain current, updated disclosure of information on file with the City Clerk throughout the term of the contract.

Chapter 176 of the Texas Local Government Code requires a vendor who enters or seeks to enter into a contract for the sale or purchase of real property, goods, or services with a local governmental entity or local government officer thereof to file a conflict of interests' disclosure questionnaire with the governmental entity prescribed.

A Conflict of Interest Questionnaire Form (CIQ) – included in the bid forms - must be submitted no later than the seventh (7th) business day after the date the vendor begins discussion, negotiation, applies or responds to a request for proposal or bids, or correspondence in writing related to a potential contract with the local governmental entity.

2.28. Certificate of Interested Parties (Form 1295)

In 2015, the Texas Legislature adopted [House Bill 1295](#), which added section 2252.908 of the Government Code. The law states that a governmental entity or state agency may not enter into certain contracts with a business entity unless the business entity submits a disclosure of interested parties to the governmental entity or state agency at the time the business entity submits the signed contract to the governmental entity or state agency. The law applies only to a contract of a governmental entity or state agency that either (1) requires an action or vote by the governing body of the entity or agency before the contract may be signed or (2) has a value of at least \$1 million. The disclosure requirement applies to a contract entered into on or after January 1, 2016.

Filing Process:

On January 1, 2016, the ethics commission made available on its website a new filing application that must be used to file Form 1295. A business entity must use the application to enter the required information on Form 1295 and print a copy of the completed form, which will include a certification of filing that will contain a unique certification number. **An authorized agent of the business entity must sign the printed copy of the form and have the form notarized.** The completed Form 1295 with the certification of filing must be filed with the governmental body or state agency with which the business entity is entering into the contract.

Information regarding how to use the filing application and the application are both available at https://www.ethics.state.tx.us/whatsnew/elf_info_form1295.htm. Instructional videos are available under the heading Instructional Videos for Business Entities.

The Form 1295 must be received, signed and notarized, within thirty (30) days of Council award or the contract may be voided.

2.29. Taxes and Permits

Attention is directed to the requirements of the General Conditions regarding payment of taxes and obtaining permits. All taxes that are lawfully assessed against the City or the selected vendor in connection with the work shall be paid by the vendor. The bid prices shall include all such taxes and the costs of all required permits. The City is exempt from State Sales Tax and Federal Excise Tax.

2.30. Examination of Contract Documents

Each vendor shall thoroughly examine and be familiar with this document, specifications, etc. The submission of a bid shall constitute an acknowledgment that the vendor has thoroughly examined and is familiar with the contract documents. The failure or neglect of a vendor to receive or examine any of the contract documents shall in no way relieve him from any obligations with respect to its bid or to the contract. No claim for extra or additional compensation will be allowed based upon a lack of knowledge of any contract document, and the City will in no case be responsible for any loss or for unanticipated costs that may be suffered by the selected vendor as a result of conditions pertaining to the work.

2.31. Legal Venue

Tom Green County, Texas

2.32. Funds – Price

The vendor submitting the lowest and best bid for each item will establish a price agreement with the City. The item(s) ordered will be selected based on the availability of funds, needs of each user, price, delivery, and value to the City. The City reserves the right to award in the bid in whole, by category or by product.



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2.33. Claims for Overcharges

Vendor hereby assigns to City any and all claims for overcharges associated with this contract which arise under the antitrust laws of the United States, 15 USCA Section 1 et seq., and which arise under the antitrust laws of the State of Texas, Tex. Bus. & Com. Code, Section 15.01, et seq.

2.34. Piggy-Back Procurements

Other municipalities or public agencies in the State of Texas may be interested in purchasing products as procured through this bid.

Governmental Entities utilizing Inter-Governmental Contracts with the City will be eligible, but not obligated, to purchase materials/services under the contract(s) awarded because of this bid. All purchases by Governmental Entities other than the City will be billed directly to that Governmental Entity and paid by that Governmental Entity. The City will not be responsible for another Governmental Entity's debts. Each Governmental Entity will order their material/services as needed, e.g., Tom Green County, etc.

2.35. Price Escalation

Price must be firm for each one (1) year term. A price increase shall at no time be more than what similar volume customers would pay (see Warranty-Price). The vendor must provide the City a fifteen (15) day notice for a price escalation request. The vendor must provide cost analysis and/or other documentation to justify any increase, to include industry and industry group level trends and indexes and should not exceed an annual increase of 4% of the originally quoted cost.

The City Manager or their designee may approve a contract term extension with or without a price increase or reduction at their full discretion. An increase in price must be justified in writing or by documentation from the Vendor to the satisfaction of the City Manager or their designee. If no agreement is reached, the City may re-bid the contract.

2.36. Time of Performance

This supply agreement will be for one (1) year effective from the bid award date by the City Council. Two (2) additional one (1) year term extensions will be available subject to agreement by both parties.

The vendor must notify the City ninety (90) days prior to the end of each one (1) year term as to their intention to terminate the contract. Terms will renew automatically unless ninety (90) days written notice is given by either party for termination.



3. BID SPECIFICATIONS

BRASS

ANGLE STOP

1. BA0400G

Angle stop shall conform to the following specifications; bronze, 3/4" female national pipe thread inlet, 3/4" swivel meter coupling nut outlet, tee head with lockwing. Angle stop shall have a 100 psi or greater pressure rating. Angle stop shall conform to AWWA C800 latest revision. (Ford KV13-332W) (Mueller H-14265) (James Jones J-1527) (McDonald 4604)

2. BA0401G

Angle stop shall conform to the following specifications; bronze, 1" female national pipe thread inlet, 1" swivel meter coupling nut outlet, tee head with lockwing. Angle stop shall have a 100 psi or greater pressure rating. Angle stop shall conform to AWWA C800 latest revision. (Ford KV13-444W) (Mueller H-14265) (James Jones J-1527) (McDonald 4604)

3. BA0500G

Angle stop shall conform to the following specifications; bronze, 3/4" flared copper inlet with nut, 3/4" swivel meter coupling nut outlet, tee head with lockwing. Angle stop shall have a 100 psi or greater pressure rating. Angle stop shall conform to AWWA C800 latest revision. (Ford KV23-332W) (Mueller H-14255) (James Jones J-1525) (McDonald 4622)

4. BA0501G

Angle stop shall conform to the following specifications; bronze, 1" flared copper inlet with nut, 1" swivel meter coupling nut outlet, tee head with lockwing. Angle stop shall have a 100 psi or greater pressure rating. Angle stop shall conform to AWWA C800 latest revision. (Ford KV23-444W) (Mueller H-14255) (James Jones J-1525) (McDonald 4622)

5. BA0700G

Angle stop shall conform to the following specification; bronze, 3/4" copper tubing compression inlet, 3/4" swivel meter coupling nut outlet, tee head with lockwing. Angle stop shall have a 100 psi or greater pressure rating. Angle stop shall conform to AWWA C800 latest revision. (Ford KV43-332W-G) (Mueller H-14258) (James Jones J-4201) (McDonald 4602)

6. BA0701G

Angle stop shall conform to the following specification; bronze, 1" copper tubing compression inlet, 1" swivel meter coupling nut outlet, tee head with lockwing. Angle stop shall have a 100 psi or greater pressure rating. Angle stop shall conform to AWWA C800 latest revision. (Ford KV43-444W-G) (Mueller H-14258) (James Jones J-4201) (McDonald 4602)

CORPORATION VALVE

7. BC0500H

Corporation valve shall conform to the following specifications: bronze, 3/4" standard AWWA corporation valve inlet thread, 3/4" flared copper outlet with nut. Corporation shall have a 100 psi or greater pressure rating. Corporation shall conform to AWWA C800 latest revision. (Ford F600-3) (Mueller H-15000) (James Jones J-1500) (McDonald 4701)

8. BC0501H

Corporation valve shall conform to the following specifications: bronze, 1" standard AWWA corporation valve inlet thread, 1" flared copper outlet with nut. Corporation shall have a 100 psi or greater pressure



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rating. Corporation shall conform to AWWA C800 latest revision. (Ford F600-4) (Mueller H-15000) (James Jones J-1500) (McDonald 4701)

9. BC0700H

Corporation valve shall conform to the following specifications: bronze, 3/4" standard AWWA corporation valve inlet thread, 3/4" copper tubing compression inlet. Corporation shall have a 100 psi or greater pressure rating. Corporation shall conform to AWWA C800 latest revision. (Ford F1000-3-Q) (Mueller H-15008) (James Jones J-3401) (McDonald 4701Q)

10. BC0701H

Corporation valve shall conform to the following specifications: bronze, 1" standard AWWA corporation valve inlet thread, 1" copper tubing compression inlet. Corporation shall have a 100 psi or greater pressure rating. Corporation shall conform to AWWA C800 latest revision. (Ford F1000-4-Q) (Mueller H-15008) (James Jones J-3401) (McDonald 4701Q)

CURB STOP

11. BE0400D

Curb stop shall conform to the following specifications: full port ball valve, bronze, with lockwing, 3/4" female national pipe thread by 3/4" female national pipe thread. Curb stop shall have a 100 psi or greater pressure rating. Curb stop shall conform to AWWA C800 latest revision. (Ford B11-333WR) (Mueller 300 W/LKWING) (James Jones 1900-W) (McDonald 6101W)

12. BE0401D

Curb stop shall conform to the following specifications: full port ball valve, bronze, with lockwing, 1" female national pipe thread by 1" female national pipe thread. Curb stop shall have a 100 psi or greater pressure rating. Curb stop shall conform to AWWA C800 latest revision. (Ford B11-444WR) (Mueller 300 C/LKWING) (James Jones 1900-W) (McDonald 6101 -W)

13. BE0500D

Curb stop shall conform to the following specifications: full port ball valve, bronze, with lockwing, 3/4" flared copper by 3/4" female national pipe thread. Curb stop shall have a 100 psi or greater pressure rating. Curb stop shall conform to AWWA C800 latest revision. (Ford B21-333WR) (Mueller 300W/LKWING) (James Jones 1901-W) (McDonald 6112-W 4 7/16)

14. BE0501D

Curb stop shall conform to the following specifications: full port valve, bronze, with lockwing, 1" flared copper by 1" female national pipe thread. Curb stop shall have a 100 psi or greater pressure rating. Curb stop shall conform to AWWA C800 latest revision. (Ford B21-444WR) (Mueller 300 W/LKWING) (James Jones 1901-W) (McDonald 6102-W)

15. BE0503D

Curb stop shall conform to the following specifications: full port ball valve, bronze, with lockwing, 1 1/4" flared copper by 1 1/4" female national pipe thread. Curb stop shall have a 100 psi or greater pressure rating. Curb stop shall conform to AWWA C800 latest revision. (Ford B21-555WR) (James Jones J-1901W) (Mueller 300W) (McDonald 6102-W)

GATE VALVE, BRASS

16. BG0400D

Gate valve shall conform to the following specifications: full port gate valve for size stated, 3/4" female national pipe thread by 3/4" female national pipe thread, bronze, non-rising stem, with bronze hand wheel attached, packing approved for potable water. Gate valve shall have a pressure rating of 125 psi SWP.(Hammond) (Milwaukee)



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17. BG0401D

Gate valve shall conform to the following specifications: Full port gate valve for size stated, 1" female national pipe thread by 1" female national pipe thread, bronze, non-rising stem, with bronze hand wheel attached, packing approved for potable water. Gate valve shall have a pressure rating of 125 psi SWP. (Hammon) (Milwaukee)

18. BE0403D

Gate valve shall conform to the following specifications: Full port gate valve for size stated, 1¼" female national pipe thread by 1¼" female national pipe thread, bronze, non-rising stem, with bronze hand wheel attached, packing approved for potable water. Gate valve shall have a pressure rating of 125 psi SWP. (Hammond) (Milwaukee)

19. BE0405D

Gate valve shall conform to the following specifications: Full port gate valve for size stated, 1½" female national pipe thread by 1½" female national pipe thread, bronze, non-rising stem, with bronze hand wheel attached, packing approved for potable water. Gate valve shall have a pressure rating of 125 psi SWP. (Hammond) (Milwaukee)

20. BG0407D

Gate valve shall conform to the following specifications: Full port gate valve for size stated, 2" female national pipe thread by 2" female national pipe thread, bronze, non-rising stem, with bronze hand wheel attached, packing approved for potable water. Gate valve shall have a pressure rating of 125 psi SWP. (Hammond) (Milwaukee)

METER RELOCATOR

21. CC0309O

Meter relocater shall conform to the following specifications: 9" riser, 7½" bottom space, for 5/8" by ¾" meter. Relocator shall have a bronze angle stop with tee head and lockwing. Relocator shall conform to AWWA C800 latest revision. (Ford V42) (Mueller H-1434) (Hays R23W) (McDonald 18 series)

22. CC0312O

Meter relocater shall conform to the following specifications: 12" riser, 7½" bottom space, for 5/8" by ¾" meter. Relocator shall have a bronze angle stop with tee head and lockwing. Relocator shall conform to AWWA C800 latest revision. (Ford V42) (Mueller H-1434) (Hays R23W) (McDonald 18 series)

23. CC0410O

Meter relocater shall conform to the following specifications: 10" riser, 10¾" bottom space, for 1" meter. Relocator shall have a bronze angle stop with tee head and lockwing. Relocator shall conform to AWWA C800 latest revision. (Ford V44) (Mueller H-1434) (Hays R23W) (McDonald 18 series)

METER COUPLING

24. CD0003O

Meter coupling shall conform to the following specifications: bronze, machined inside, ¾" male national pipe thread by 1" swivel meter coupling nut, 2½" long, straight, without washer. (Ford C38-23-2.5) (Mueller H-10890) (James Jones J-134) (McDonald 4620)

25. CD0305O

Meter coupling shall conform to the following specifications: bronze, machined inside, ¾" male national pipe thread by 1" swivel meter coupling nut, 1½" long, straight, without washer. (Ford C38-23-1.5) (Mueller H-10890) (James Jones J-134) (McDonald 4620)



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26. CD00040

Meter coupling shall conform to the following specifications: bronze, machined inside, 1" male national pipe thread by 1 1/4" swivel meter coupling nut, 2 5/8" long, straight, without washer. (Ford C38-44-2.625) (Mueller H-10890) (James Jones J-134) (McDonald 4620)

27. CD04050

Meter coupling shall conform to the following specifications: bronze, machined inside, 1" male national pipe thread by 1 1/4" swivel meter coupling nut, 1-1/2" long, straight, without washer. (Ford C38-44-1.5) (Mueller H-10890) (James Jones J-134) (McDonald 4620)

BRASS METER ADAPTER

28. CD03020

Bronze meter adapter will conform to the following specifications: to adapt 5/8" x 3/4" meter to 3/4" meter length. Adapter shall meet AWWA C800 latest revision. (Ford-A23) (McDonald 10j23)

METER FLANGE

29. CD56000

Meter flange shall conform to the following specifications: bronze, 2" female national pipe thread, slotted bolt holes to fit 1-1/2" and 2" water meter. (Ford CF31-77) (James Jones J-129) (McDonald 610F) (Mueller H-10129)

NIPPLE

30. HA0203A

Nipple shall conform to the following specifications; bronze, 1/2" male national pipe threads by 1/2" male national pipe threads, 3" long, domestic made. (Lee) (Merit) (McDonald)

31. HA0204A

Nipple shall conform to the following specifications; bronze, 1/2" male national pipe threads by 1/2" male national pipe threads, 4" long, domestic made. (Lee) (Merit) (McDonald)

32. HA0206A

Nipple shall conform to the following specifications; bronze, 1/2" male national pipe threads by 1/2" male national pipe threads, 6" long, domestic made. (Lee) (Merit) (McDonald)

33. HA0301A

Nipple shall conform to the following specifications; bronze, 3/4" male national pipe threads by 3/4" male national pipe threads, close length, domestic made. (Lee) (Merit) (McDonald)

34. HA0302A

Nipple shall conform to the following specifications; bronze, 3/4" male national pipe threads by 3/4" male national pipe threads, 2" long, domestic made. (Lee) (Merit) (McDonald)

35. HA0303A

Nipple shall conform to the following specifications; bronze, 3/4" male national pipe threads by 3/4" male national pipe threads, 3" long, domestic made. (Lee) (Merit) (McDonald)

36. HA0304A



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Nipple shall conform to the following specifications; bronze, 3/4" male national pipe threads by 3/4" male national pipe threads, 4" long, domestic made.

(Lee) (Merit) (McDonald)

37. HA0306A

Nipple shall conform to the following specifications; bronze, 3/4" male national pipe threads by 3/4" male national pipe threads, 6" long, domestic made.

(Lee) (Merit) (McDonald)

38. HA0401A

Nipple shall conform to the following specifications; bronze, 1" male national pipe threads by 1" male national pipe threads, close length, domestic made.

(Lee) (Merit) (McDonald)

39. HA0402A

Nipple shall conform to the following specifications; bronze, 1" male national pipe threads by 1" male national pipe threads, 2" long, domestic made.

(Lee) (Merit) (McDonald)

40. HA0403A

Nipple shall conform to the following specifications; bronze, 1" male national pipe threads by 1" male national pipe threads, 3" long, domestic made.

(Lee) (Merit) (McDonald)

41. HA0404A

Nipple shall conform to the following specifications; bronze, 1" male national pipe threads by 1" male national pipe threads, 4" long, domestic made. (Lee) (Merit) (McDonald)

42. HA0406A

Nipple shall conform to the following specifications; bronze, 1" male national pipe threads by 1" male national pipe threads, 6" long, domestic made.

(Lee) (Merit) (McDonald)

43. HA0503A

Nipple shall conform to the following specifications; bronze, 1 1/4" male national pipe threads by 1 1/4" male national pipe threads, 3" long, domestic made.

(Lee) (Merit) (McDonald)

44. HA0506A

Nipple shall conform to the following specifications; bronze, 1 1/4" male national pipe threads by 1 1/4" male national pipe threads, 6" long, domestic made.

(Lee) (Merit) (McDonald)

45. HA0601A

Nipple shall conform to the following specifications; bronze, 1 1/2" male national pipe threads by 1 1/2" male national pipe threads, close length, domestic made.

(Lee) (Merit) (McDonald)

46. HA0603A

Nipple shall conform to the following specifications; bronze, 1 1/2" male national pipe threads by 1 1/2" male national pipe threads, 3" long, domestic made.

(Lee) (Merit) (McDonald)

47. HA0606A

Nipple shall conform to the following specifications; bronze, 1 1/2" male national pipe threads by 1 1/2" male national pipe threads, 6" long, domestic made.



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(Lee) (Merit) (McDonald)

48. HA0701A

Nipple shall conform to the following specifications; bronze, 2" male national pipe threads by 2" male national pipe threads, close length, domestic made.

(Lee) (Merit) (McDonald)

49. HA0703A

Nipple shall conform to the following specifications; bronze, 2" male national pipe threads by 2" male national pipe threads, 3" long, domestic made.

(Lee) (Merit) (McDonald)

50. HA0704A

Nipple shall conform to the following specifications; bronze, 2" male national pipe threads by 2" male national pipe threads, 4" long, domestic made.

(Lee) (Merit) (McDonald)

51. HA0706A

Nipple shall conform to the following specifications; bronze, 2" male national pipe threads by 2" male national pipe threads, 6" long, domestic made.

(Lee) (Merit) (McDonald)

52. HA0710A

Nipple shall conform to the following specifications; bronze, 2" male national pipe threads by 2" male national pipe threads, 10" long, domestic made.

(Lee) (Merit) (McDonald)

BRASS MALE ADAPTERS

53. KA0202C

Male adapter will conform to the following specifications: bronze, 3/4" male iron pipe thread by 3/4" flare copper tubing. Male adapter shall meet AWWA C800 latest revision.

(Mueller-H15427) (Ford-C28-33) (James Jones-J-1531) (McDonald 4753)

54. KA0303B

Male adapters will conform to the following specifications: bronze, 1" male iron pipe thread by 1" flare copper tubing. Male adapters shall meet AWWA C800 latest revision.

(Mueller-H15427) (Ford-C28-44) (James Jones-J-1531) (McDonald 4753)

55. KA0306B

Male adapters will conform to the following specifications: bronze, 2" male iron pipe thread by 2" flare copper tubing. Male adapters shall meet AWWA C800 latest revision.

(Mueller-H15427) (Ford-C28-77) (James Jones-J-1531) (McDonald 4753)

56. KA0402B

Male adapters will conform to the following specifications: bronze, 3/4" male iron pipe thread by 3/4" compression copper tubing. Male adapters shall meet AWWA C800 latest revision. (Mueller-H15428) (Ford-C84-33Q) (James Jones-J-2605) (McDonald 4753-Q)

57. KA0403A

Male adapters will conform to the following specifications: bronze, 1" male iron pipe thread by 1" compression copper tubing. Male adapters shall meet AWWA C800 latest revision. (Mueller-H15428) (Ford-C84-44Q) (James Jones-J-2605) (McDonald 4753-Q)

BRASS COUPLING



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58. KB0102A

Coupling will conform to the following specifications; bronze, ¾" female national pipe thread by ¾" female national pipe thread, domestic made.(Lee) (Merit) (McDonald)

59. KB0103A

Coupling will conform to the following specifications; bronze, 1" female national pipe thread by 1" female national pipe thread, domestic made.

(Lee) (Merit) (McDonald)

60. KB0106A

Coupling will conform to the following specifications; bronze, 2" female national pipe thread by 2" female national pipe thread, domestic made.

(Lee) (Merit) (McDonald)

BRASS LEAD ADAPTERS

61. KB0602F

Lead adapters will conform to the following specifications: bronze, ¾" (inlet) lead flange thread (outlet) flare copper tubing. Lead adapters shall meet AWWA C800 latest revision. (Mueller-H15505) (James Jones-J-1555) (Ford-LFSC2-33)

62. KB0603F

Lead adapters will conform to the following specifications: bronze, 1" (inlet) lead flange thread (outlet) flare copper tubing. Lead adapters shall meet AWWA C800 latest revision. (Mueller-H15505) (James Jones-J-1555) (Ford-LFC244)

BRASS TEE

63. KC0102A

Tee will conform to the following specifications: bronze, ¾" female national pipe thread by ¾" female national pipe thread by ¾" female national pipe thread, domestic made.

(Lee) (Merit) (McDonald)

64. KC0103A

Tee will conform to the following specifications: bronze, 1" female national pipe thread by 1" female national pipe thread by 1" female national pipe thread, domestic made.

(Lee) (Merit) (McDonald)

65. KC0106A

Tee will conform to the following specifications: bronze, 2" female national pipe thread by 2" female national pipe thread by 2" female national pipe thread, domestic made.

(Lee) (Merit) (McDonald)

BRASS PLUGS

66. KD0201O

Plugs shall conform to the following specifications: bronze, square head, ½" male national pipe thread, domestic made.(Lee) (Merit) (McDonald)

67. KD0202O

Plugs shall conform to the following specifications; bronze, square head, ¾" male national pipe thread, domestic made.(Lee) (Merit) (McDonald)

68. KD0203O

Plugs shall conform to the following specifications; bronze, square head, 1" male national pipe thread, domestic made. (Lee) (Merit) (McDonald)



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69. KD0206O

Plugs shall conform to the following specifications; bronze, square head, 2" male national pipe thread, domestic made. (Lee) (Merit) (McDonald)

70. KD0207O

Plugs shall conform to the following specifications; bronze, square head, 1/4" male national pipe thread, domestic made. (Lee) (Merit) (McDonald)

90 DEGREE ELBOW

71. KE0102A

90 degree elbow shall conform to the following specifications: bronze, 3/4" female national pipe thread by 3/4" female national pipe thread, domestic made.
(Lee) (Merit) (McDonald)

72. KE0103A

90 degree elbow shall conform to the following specifications; bronze, 1" female national pipe thread by 1" female national pipe thread, domestic made.
(Lee) (Merit) (McDonald)

73. KE0106A

90 degree elbow shall conform to the following specifications; bronze, 2" female national pipe thread by 2" female national pipe thread, domestic made.
(Lee) (Merit) (McDonald)

90 DEGREE STREET ELBOW

74. KE0706H

90 degree street elbow shall conform to the following specifications; bronze, 2" female national pipe thread by 2" male national pipe thread, domestic made.
(Lee) (Merit) (McDonald)

75. KE0103H

90 degree street elbow shall conform to the following specifications; bronze, 1" female national pipe thread by 1" male national pipe thread, domestic made.
(Lee) (Merit) (McDonald)

TWO-PART UNIONS

76. KG0302D

Two-part unions will conform to the following specifications; bronze, 3/4" flare copper by 3/4" flare copper tubing. Union adapters shall meet AWWA C800 latest revision.
Mueller-H15405) (James Jones-J-1529) (Ford-CS22-33) (McDonald 4756)

77. KG0303D

Two-part unions will conform to the following specifications: bronze, 1" flare copper by 1" flare copper tubing. Union adapters shall meet AWWA C800 latest revision.
(Mueller-H15405) (James Jones-J-1529) (Ford-CS22-44) (McDonald 4756)

THREE PART UNIONS

78. KH0302G



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Three-part unions will conform to the following specifications: bronze, 3/4" flare copper by 3/4" flare copper tubing. Union adapters shall meet AWWA C800 latest revision.
(Mueller-H15400) (James Jones-J-1528) (Ford-C22-33) (McDonald 4758)

79. KH0303G

Three-part unions will conform to the following specifications: bronze, 1" flare copper by 1" flare copper tubing. Union adapters shall meet AWWA C800 latest revision.
(Mueller-H15400) (James Jones-J-1528) (Ford-C22-44) (McDonald 4758)

THREE PART UNION

80. KH0402D

Union shall conform to the following specifications; bronze, three part union, 3/4" compression copper tubing by 3/4" compression copper tubing. Union shall meet AWWA C800 latest revision.(Ford C44-33-Q)
(Mueller H-15403) (James Jones J-2609) (McDonald 4758-Q)

81. KH0403D

Union shall conform to the following specifications; bronze, three part union, 1" compression copper tubing by 1" compression copper tubing. Union shall meet AWWA C800 latest revision. (Ford C44-44-Q)
(Mueller H-15403) (James Jones J-2609) (McDonald 4758-Q)

QUARTER BEND ADAPTER

82. KI0202D

Quarter bend adapter shall conform to the following specifications; bronze, 3/4" male national pipe thread by 3/4" compression copper tubing. Quarter bend adapter shall meet AWWA C800 latest Revision.
(Mueller H-15531F) (James Jones J-2619) (McDonald 4779-Q) (FORD L84-33-Q)

83. KI0203D

Quarter bend adapter shall conform to the following specifications; bronze, 1" male national pipe thread by 1" compression copper tubing. Quarter bend adapter shall meet AWWA C800 latest Revision. (Mueller H-15531F) (James Jones J-2619) (McDonald 4779-Q) (FORD L84-44-Q)

84. KI0202G

Quarter bend adapter shall conform to the following specifications; bronze, 3/4" male national pipe thread by 3/4" flared copper with nut. Quarter bend adapter shall meet AWWA C800 latest revision.
(Ford L28-33) (Mueller H-15530) (James Jones J-1550) (McDonald 4779-Q)

85. KI0203G

Quarter bend adapter shall conform to the following specifications; bronze, 1" male national pipe thread by 1" flared copper with nut. Quarter bend adapter shall meet AWWA C800 latest revision. (Ford L28-44)
(Mueller H-15530) (James Jones J-1550) (McDonald 4779-Q)

BRONZE FLARE NUTS

86. KP0502A

Bronze flare nut will conform to the following specifications: bronze, 3/4" flare copper by 3/4" female iron pipe thread. Flare nuts shall meet AWWA C800 latest revision.
(Ford-C01-33)

87. KP0503A

Bronze flare nut will conform to the following specifications: bronze, 1" flare copper by 1" female iron pipe thread. Flare nuts shall meet AWWA C800 latest revision.
(Ford-C01-44)



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BUSHING

88. MA0102A

Bushing shall conform to the following specifications; bronze, $\frac{3}{4}$ " machined male end national pipe thread by $\frac{1}{2}$ " female national pipe thread, domestic made.

(Merit) (Lee) (Ford C18-13) (McDonald)

89. MA0103B

Bushing shall conform to the following specifications; bronze, 1" machined male end national pipe thread by $\frac{3}{4}$ " female national pipe thread, domestic made.

(Merit) (Lee) (Ford C18-34) (McDonald)

90. MA0104B

Bushing shall conform to the following specifications; bronze, $1\frac{1}{4}$ " machined male end national pipe thread by $\frac{3}{4}$ " female national pipe thread, domestic made.

(Merit) (Lee) (Ford C18-35) (McDonald)

91. MA0104C

Bushing shall conform to the following specifications; bronze, $1\frac{1}{4}$ " machined male end national pipe thread by 1" female national pipe thread, domestic made.

(Merit) (Lee) (Ford C18-45) (McDonald)

92. MA0107C

Bushing shall conform to the following specifications; bronze, 2" machined male end national pipe thread by 1" female national pipe thread, domestic made.

(Merit) (Lee) (Ford C18-47) (McDonald)

93. MA0203B

Bushing shall conform to the following specifications; bronze, 1" male cc thread by $\frac{3}{4}$ " female cc thread, domestic made. (Merit) (Lee) (Ford BBAA-43) (McDonald)

CAST IRON

ADJUSTABLE VALVE BOX WITH LID

BS0025O, BS0026O, BS0028O

Valve box and lid shall conform to the following specifications; cast iron shall meet ASTM A-48-84 class 30 standards latest revision, box shall be screw type adjustable, lid shall be non-locking type, box and lid shall be coated with bituminous emulsified asphalt, three piece construction required to make one (1) complete adjustable assembly. Lid shall be marked "WATER". Smallest nominal internal dimension shall be $5\frac{1}{4}$ ". Nominal heights and weights as follows:

94. BS0025O

Lid. Nominal weight 15 lbs.(East Jordan Iron Works Inc. #06800001 Adjustable Valve Boxes, Screw Type)

95. BS0026O

Top Section. Nominal height 10". Nominal weight 25 lbs.

(East Jordan Iron Works Inc. #85507010 Adjustable Valve Boxes, Screw Type)

96. BS0028O

Bottom Section. Nominal height 15". Nominal weight 34 lbs.

(East Jordan Iron Works Inc #85506015 Adjustable Valve Boxes, Screw Type)



OVAL METER BOX

97. CB0011P

Meter box shall conform to the following specifications; high density polyethylene, white exterior/white interior. Box shall be oval in shape to fit #11 cast iron meter box lid. Nominal outside dimensions shall be 11¼"x17½"x10" high. Nominal lid opening shall be 9½"x13". Nominal weight of box shall be six lbs. (East Jordan Iron Works, Inc. #32411500)

OVAL METER BOX LID

98. CB0011B

Meter box lid shall conform to the following specifications; cast iron shall meet ASTM A-48-84 class 30 standards latest revision, lid shall be oval in shape, lid shall be coated with bituminous emulsified asphalt, lid shall be non-locking type. Lid shall be marked with "CITY OF SAN ANGELO WATER DEPT". Nominal weight of lid shall be 15 lbs. (East Jordan Iron Works #32111301 Lid)

RECTANGULAR METER BOX LID

99. CB0019C

Meter box lid shall conform to the following specifications; cast iron shall meet ASTM A-48-84 class 30 standards latest revision, lid shall be rectangular in shape, lid shall be coated with bituminous emulsified asphalt, lid shall be non-locking type. Nominal weight of lid shall be 35 lbs.. (East Jordan Iron Works Inc. #32131324)

RECTANGULAR METER BOX

100. CB0019P

Meter box shall conform to the following specifications: Constructed of Linear Medium Density Polyethylene (LMDPE) as defined in ASTM D-883-95A and have a minimum wall thickness of .500". The exterior shall be black to provide UV protection and the interior shall be bright white to ease meter reading. Boxes shall be able to with stand a minimum 15,000 pounds (vertical) and 400 pounds side wall load. The nominal weight of the box shall be 18 lbs. Nominal outside dimensions shall be 13 3/4" X 23 1/8" X 12" high. The Meter Box shall be an East Jordan Iron Works Inc (32144001).

CLEAN OUT BOOT

101. UA0001P

Boot shall conform to the following specifications; cast iron shall meet ASTM A-48-84 class 30 revision, nominal dimension of boot shall be 18 1/8" wide, 28" long, and 10½" high. Nominal weight of boot shall be 92 lbs. (East Jordan Iron Works Inc #00847511)

CLEAN OUT LID

102. UB0002O

Lid shall conform to the following specifications; cast iron shall meet ASTM A-48-84 class 30 latest revision, lid shall be coated with bituminous emulsified asphalt. Nominal outside diameter of lid shall be 7½". Lid shall have two 7/8" diameter pick holes and three locking horns which engage the boot and secure the lid when it has been rotated. (East Jordan Iron Works Inc #0084752)

MANHOLE RING

103. UD0011O

Ring shall conform to the following specifications; cast iron shall meet ASTM A-48-84 class 30 standards latest revision, ring shall be bottom flange type, ring shall be coated with bituminous emulsified asphalt.



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Nominal outside dimension of ring shall be 32". Ring shall accept 24" lid. Ring shall have a H-20 load rating. Nominal weight of ring shall be 165 lbs. (East Jordan Iron Works Inc 00117711)

MANHOLE LID

104. UE00120

Lid shall conform to the following specifications; cast iron shall meet ASTM A-48-84 class 30 standards latest revision, lid shall have cast iron pick bar lifting option, lid shall be coated with a bituminous emulsified asphalt. Nominal outside dimension shall be 24". Lid shall be marked "CITY OF SAN ANGELO SEWER". Lid shall have a H-20 load rating. Nominal weight of lid shall be 135 lbs. (East Jordan Iron Works Inc 00117738)

DUCTILE IRON AND CAST IRON FITTINGS

All ductile and cast fitting shall conform to the following specifications; AWWA C153 SSB short body ductile iron fittings, these fittings will be required first on bid, if the short body ductile iron fittings are not available the C110 cast iron fittings will be acceptable, mechanical joint, with Ford or Ebba restraint Kit accessories and Epoxy Coated inside and out. For C-900 pipe. (Tyler Domestic & Tyler Non-Domestic)

90 DEGREE BEND CAST FITTING

105. GA01040

Cast fitting shall conform to the following specifications; 90 degree bend C153 SSB or C110 mechanical joint ductile fitting, 4" mechanical joint by 4" mechanical joint, with accessories, cement lined. Fitting shall meet AWWA C110 latest revision.

106. GA01060

Cast fitting shall conform to the following specifications; 90 degree bend, C153 SSB or C110 mechanical joint ductile fitting, 6" mechanical joint by 6" mechanical joint, with accessories, cement lined. Fitting shall meet AWWA C110 latest revision.

107. GA01080

Cast fitting shall conform to the following specifications; 90 degree bend, C153 SSB or C110 mechanical joint ductile fitting, 8" mechanical joint by 8" mechanical joint, with accessories, cement lined. Fitting shall meet AWWA C110 latest revision.

108. GA01100

Cast fitting shall conform to the following specifications; 90 degree bend, C153 SSB or C110 mechanical joint ductile fitting, 10" mechanical joint by 10" mechanical joint, with accessories, cement lined. Fitting shall meet AWWA C110 latest revision.

109. GA01120

Cast fitting shall conform to the following specifications; 90 degree bend, C153 SSB or C110 mechanical joint ductile fitting, 12" mechanical joint by 12" mechanical joint, with accessories, cement lined. Fitting shall meet AWWA C110 latest revisions.

110. GA01160

Cast fitting shall conform to the following specifications; 90 degree bend, C153 SSB or C110 mechanical joint ductile fitting, 16" mechanical joint by 16" mechanical joint, with accessories, cement lined. Fitting shall meet AWWA C110 latest revisions.

45 DEGREE BEND CAST FITTING

111. GB01040



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Cast fitting shall conform to the following specifications; 45 degree bend, C153 SSB or C110 mechanical joint ductile fitting, 4" mechanical joint by 4" mechanical joint, with accessories, cement lined. Fitting shall meet AWWA C110 latest revision.

112. GB01060

Cast fitting shall conform to the following specifications; 45 degree bend, C153 SSB or C110 mechanical joint ductile fitting, 6" mechanical joint by 6" mechanical joint, with accessories, cement lined. Fitting shall meet AWWA C110 latest revisions.

113. GB01080

Cast fitting shall conform to the following specifications; 45 degree bend, C153 SSB or C110 mechanical joint ductile fitting, 8" mechanical joint by 8" mechanical joint, with accessories, cement lined. Fitting shall meet AWWA C110 latest revision.

114. GB01100

Cast fitting shall conform to the following specifications; 45 degree bend, C153 SSB or C110 mechanical joint ductile fitting, 10" mechanical joint by 10" mechanical joint, with accessories, cement lined. Fitting shall meet AWWA C110 latest revision.

115. GB01120

Cast fitting shall conform to the following specifications; 45 degree bend, C153 SSB or C110 mechanical joint ductile fitting, 12" mechanical joint by 12" mechanical joint, with accessories, cement lined. Fitting shall meet AWWA C110 latest revision.

116. GB01160

Cast fitting shall conform to the following specifications; 45 degree bend, C153 SSB or C110 mechanical joint ductile fitting, 16" mechanical joint by 16" mechanical joint, with accessories, cement lined. Fitting shall meet AWWA C110 latest revision.

117. GC01040

Cast fitting shall conform to the following specifications; 22½ degree bend, C153 SSB or C110 mechanical joint ductile fitting, 4" mechanical joint by 4" mechanical joint, with accessories, cement lined. Fitting shall meet AWWA C110 latest revision.

118. GC01060

Cast Fitting shall conform to the following specifications; 22½ degree bend, C153 SSB or C110 mechanical joint ductile fitting, 6" mechanical joint by 6" mechanical joint, with accessories, cement lined. Fitting shall meet AWWA C110 latest revision.

119. GC01080

Cast fitting shall conform to the following specifications; 22½ degree bend, C153 SSB C110 mechanical joint ductile fitting, 8" mechanical joint by 8" mechanical joint, with accessories, cement lined. Fitting shall meet AWWA C110 latest revision.

120. GC01100

Cast fitting shall conform to the following specifications; 22½ degree bend, C153 SSB or C110 mechanical joint ductile fitting, 10" mechanical joint by 10" mechanical joint, with accessories, cement lined. Fitting shall meet AWWA C110 latest revision.

121. GC01120

Cast fitting shall conform to the following specifications; 22½ degree bend, C153 SSB or C110 mechanical joint ductile fitting, 12" mechanical joint by 12" mechanical joint, with accessories, cement lined. Fitting shall meet AWWA C110 latest revision.

122. GC01160



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Cast fitting shall conform to the following specifications; 22½ degree bend, C153 SSB or C110 mechanical joint ductile fitting, 16" mechanical joint by 16" mechanical joint, with accessories, cement lined. Fitting shall meet AWWA C110 latest revision.

TEE CAST FITTING

123. GD0104B

Cast fitting shall conform to the following specifications; Straight tee, C153 SSB or C110 mechanical ductile fitting, 4" mechanical joint by 4" mechanical joint by 4" mechanical joint, with accessories, cement lined. Fitting shall meet AWWA C110 latest revision.

124. GD0106B

Cast fitting shall conform to the following specifications; straight tee, C153 SSB or C110 mechanical joint ductile fitting, 6" mechanical joint by 6" mechanical joint, by 4" mechanical joint, with accessories, cement lined. Fitting shall meet AWWA C110 latest revision.

125. GD0106C

Cast fitting shall conform to the following specifications; straight tee, C153 SSB or C110 mechanical joint ductile fitting, 6" mechanical joint by 6" mechanical joint by 6" mechanical joint, with accessories, cement lined. Fitting shall meet AWWA C110 latest revision.

126. GD0108B

Cast fitting shall conform to the following specifications; straight tee, C153 SSB or C110 mechanical joint ductile fitting, 8" mechanical joint by 8" mechanical joint by 4" mechanical joint, with accessories, cement lined. Fitting shall meet AWWA C110 latest revision.

127. GD0108C

Cast fitting shall conform to the following specifications; straight tee, C153 SSB or C110 mechanical joint ductile fitting, 8" mechanical joint by 8" mechanical joint by 6" mechanical joint, with accessories, cement lined. Fitting shall meet AWWA C110 latest revision.

128. GD0108D

Cast fitting shall conform to the following specifications; straight tee, C153 SSB or C110 mechanical joint ductile fitting, 8" mechanical joint by 8" mechanical joint by 8" mechanical joint, with accessories, cement lined. Fitting shall meet AWWA C110 latest revision. (Tyler 5-120 or 5-620)

129. GD0112B

Cast fitting shall conform to the following specifications; straight tee, C153 SSB or C110 mechanical joint ductile fitting, 12" mechanical joint by 12" mechanical joint by 4" mechanical joint, with accessories, cement lined. Fitting shall meet AWWA C110 latest revision.

130. GD0112C

Cast fitting shall conform to the following specifications; straight tee, C153 SSB or C110 mechanical joint ductile fitting, 12" mechanical joint by 12" mechanical joint by 6" mechanical joint, with accessories, cement lined. Fitting shall meet AWWA C110 latest revision.

131. GD0112E

Cast fitting shall conform to the following specifications; straight tee, C153 SSB or C110 mechanical joint ductile fitting, 12" mechanical joint by 12" mechanical joint by 10" mechanical joint, with accessories, cement lined. Fitting shall meet AWWA C110 latest revision.

132. GD0112F

Cast fitting shall conform to the following specifications; straight tee, C153 SSB or C110 mechanical joint ductile fitting, 12" mechanical joint by 12" mechanical joint by 12" mechanical joint, with accessories, cement lined. Fitting shall meet AWWA C110 latest revision.



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133. GD0116F

Cast fitting shall conform to the following specifications; straight tee, C153 SSB or C110 mechanical joint ductile fitting, 16" mechanical joint by 16" mechanical joint by 12" mechanical joint, with accessories, cement lined. Fitting shall meet AWWA C110 latest revision.

134. GD0116H

Cast fitting shall conform to the following specification; straight tee, C153 SSB or C110 mechanical joint ductile fitting, 16" mechanical joint by 16" mechanical joint by 16" mechanical joint, with accessories, cement lined. Fitting shall meet AWWA C110 latest revision.

CROSS CAST FITTING

135. GE0104B

Cast fitting shall conform to the following specifications; straight cross, C153 SSB or C110 mechanical joint ductile fitting, 4" mechanical joint by 4" mechanical joint, with accessories, cement lined. Fitting shall meet AWWA C110 latest revision.

136. GE0106B

Cast fitting shall conform to the following specifications; straight cross, C153 SSB or C110 mechanical joint ductile fitting, 6" mechanical joint by 4" mechanical joint, with accessories, cement lined. Fitting shall meet AWWA C110 latest revisions.

137. GE0106C

Cast fitting shall conform to the following specifications; straight cross, C153 SSB or C110 mechanical joint ductile fitting, 6" mechanical joint by 6" mechanical joint, with accessories, cement lined. Fitting shall meet AWWA C110 latest revisions.

138. GE0108B

Cast Fitting shall conform to the following specifications; straight cross, C153 SSB or C110 mechanical joint ductile fitting, 8" mechanical joint by 4" mechanical joint, with accessories, cement lined. Fitting shall meet AWWA C110 latest revision.

139. GE0108C

Cast fitting shall conform to the following specifications; straight cross, C153 SSB or C110 mechanical joint ductile fitting, 8" mechanical joint by 6" mechanical joint, with accessories, cement lined. Fitting shall meet AWWA C110 latest revisions.

140. GE0108D

Cast fitting shall conform to the following specification; straight cross, C153 SSB or C110 mechanical joint ductile fitting, 8" mechanical joint by 8" mechanical joint, with accessories, cement lined. Fitting shall meet AWWA C110 latest revisions.

141. GE0112C

Cast fitting shall conform to the following specifications; straight cross, C153 SSB or C110 mechanical joint ductile fitting, 12" mechanical joint by 6" mechanical joint, with accessories, cement lined. Fitting shall meet AWWA C110 latest revisions.

142. GE0112D

Cast fitting shall conform to the following specifications; straight cross, C153 SSB or C110 mechanical joint ductile fitting, 12" mechanical joint by 8" mechanical joint, with accessories, cement lined. Fitting shall meet AWWA C110 latest revisions.

143. GE0112F



Cast fitting shall conform to the following specifications; straight cross, C153 SSB or C110 mechanical joint ductile fitting, 12" mechanical joint by 12" mechanical joint, with accessories, cement lined. Fitting shall meet AWWA C110 latest revisions.

PLUG CAST FITTING

144. GF0104O

Cast fitting shall conform to the following specifications; plug, C153 SSB or C110 mechanical ductile fitting, 4" mechanical joint, with accessories, Fitting shall meet AWWA C110 latest revisions.

145. GF0106O

Cast fitting shall conform to the following specifications; plug, C153 SSB or C110 mechanical ductile fitting, 6" mechanical joint, with accessories, Fitting shall meet AWWA C110 latest revisions.

146. GF0108O

Cast fitting shall conform to the following specifications; plug, C153 SSB or C110 mechanical joint ductile fitting, 8" mechanical joint, with accessories. Fitting shall meet AWWA C110 latest revisions.

147. GF0110O

Cast fitting shall conform to the following specifications; plug, C153 SSB or C110 mechanical joint ductile fitting, 10" mechanical joint, with accessories. Fitting shall meet AWWA C110 latest revisions.

148. GF0112O

Cast fitting shall conform to the following specifications; plug, C153 SSB or C110 mechanical joint ductile fitting, 12" mechanical joint, with accessories. Fitting shall meet AWWA C110 latest revisions.

149. GF0116O

Cast fitting shall conform to the following specifications; plug, C153 SSB or C110 mechanical ductile fitting, 16" mechanical joint, with accessories. Fitting shall meet AWWA C110 latest revisions.

150. GF0204O

Cast fitting shall conform to the following specifications; cap, C153 SSB or C110 mechanical ductile fitting, 4" mechanical joint, with accessories. Fitting shall meet AWWA C110 latest revisions.

151. GF0206O

Cast fitting shall conform to the following specifications; cap, C153 SSB or C110 mechanical ductile fitting, 6" mechanical joint, with accessories. Fitting shall meet AWWA C110 latest revisions.

152. GF0208O

Cast fitting shall conform to the following specifications; cap, C153 SSB or C110 mechanical ductile fitting, 8" mechanical joint, with accessories. Fitting shall meet AWWA C110 latest revisions.

153. GF0210O

Cast fitting shall conform to the following specifications; cap, C153 SSB or C110 mechanical ductile fitting, 10" mechanical joint, with accessories. Fitting shall meet AWWA C110 latest revisions.

154. GF0212O

Cast fitting shall conform to the following specifications; cap, C153 SSB or C110 mechanical ductile fitting, 12" mechanical joint, with accessories. Fitting shall meet AWWA C110 latest revisions.

155. GF0216O

Cast fitting shall conform to the following specifications; cap, C153 SSB or C110 mechanical ductile fitting, 16" mechanical joint, with accessories. Fitting shall meet AWWA C110 latest revisions.

156. GF0304O



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Cast fitting shall conform to the following specifications; plug, C153 SSB or C110 compact ductile fitting, 4" push-on (slip) for c-900. Fitting shall meet AWWA C110 latest revisions.

157. GF0306O

Cast fitting shall conform to the following specifications; plug, C153 SSB or C110 compact ductile fitting, 6" push-on (slip) for c-900. Fitting shall meet AWWA C110 latest revisions.

158. GF0308O

Cast fitting shall conform to the following specifications; plug, C153 SSB or C110 compact ductile fitting, 8" push-on (slip) for c-900. Fitting shall meet AWWA C110 latest revisions.

159. GF0310O

Cast fitting shall conform to the following specifications; plug, C153 SSB or C110 compact ductile fitting, 10" push-on (slip) for c-900. Fitting shall meet AWWA C110 latest revisions.

160. GF0312O

Cast fitting shall conform to the following specifications; plug, C153 SSB or C110 compact ductile fitting, 12" push-on (slip) for c-900. Fitting shall meet AWWA C110 latest revisions.

161. GF0316O

Cast fitting shall conform to the following specifications; plug, C153 SSB or C110 compact ductile fitting, 16" push-on (slip) for c-900. Fitting shall meet AWWA C110 latest revisions.

REDUCER CAST FITTING

162. GG0104A

Cast Fitting shall conform to the following specifications; reducer, C153 SSB or C110 mechanical ductile fitting, 4" mechanical joint by 2" mechanical joint, with accessories, cement lined. Fitting shall conform to AWWA C110 latest revisions.

163. GG0106B

Cast fitting shall conform to the following specifications; reducer, C153 SSB or C110 mechanical joint ductile fitting, 6" mechanical joint by 4" mechanical joint, with accessories, cement lined. Fitting shall conform to AWWA C110 latest revisions.

164. GG0108B

Cast fitting shall conform to the following specifications; reducer, C153 SSB or C110 mechanical ductile fitting, 8" mechanical joint by 4" mechanical joint, with accessories, cement lined. Fitting shall conform to AWWA C110 latest revisions.

165. GG0108C

Cast fitting shall conform to the following specifications; reducer, C153 SSB or C110 mechanical ductile fitting, 8" mechanical joint by 6" mechanical joint, with accessories, cement lined. Fitting shall conform to AWWA C110 latest revisions.

166. GG0112B

Cast fitting shall conform to the following specifications; reducer, C153 SSB or C110 mechanical ductile fitting, 12" mechanical joint by 4" mechanical joint, with accessories, cement lined. Fitting shall conform to AWWA C110 latest revisions.

167. GG0112C

Cast fitting shall conform to the following specifications; reducer, C153 SSB or C110 mechanical ductile fitting, 12" mechanical joint by 6" mechanical joint, with accessories, cement lined. Fitting shall conform to AWWA C110 latest revisions.

168. GG0112D



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Cast fitting shall conform to the following specifications; reducer, C153 SSB or C110 mechanical ductile fitting, 12" mechanical joint by 8" mechanical joint, with accessories, cement lined. Fitting shall conform to AWWA C110 latest revisions.

169. GG0112E

Cast fitting shall conform to the following specifications; reducer, C153 SSB or C110 mechanical joint ductile fitting, 12" mechanical joint by 10" mechanical joint, with accessories, cement lined. Fitting shall conform to AWWA C110 latest revisions.

170. GG0116C

Cast fitting shall conform to the following specifications; reducer, C153 SSB or C110 mechanical joint ductile fitting, 16" mechanical joint by 6" mechanical joint, with accessories, cement lined. Fitting shall conform to AWWA C110 latest revisions,

171. GG0116F

Cast fitting shall conform to the following specifications; reducer, C153 SSB or C110 mechanical joint ductile fitting, 16" mechanical joint by 12" mechanical joint, with accessories, cement lined. Fitting shall conform to AWWA C110 latest revision.

SWIVEL ADAPTER CAST FITTING

172. GH0104O

Cast fitting shall conform to the following specifications; swivel adapter, C153 SSB or C110 mechanical joint ductile fitting, 4" pipe size by 13" long, mechanical joint by swivel, with accessories. Fitting shall conform to AWWA C110 latest revisions.

173. GH0106O

Cast fitting shall conform to the following specifications; swivel adapter, C153 SSB or C110 mechanical joint ductile fitting, 6" pipe size by 13" long, mechanical joint by swivel, with accessories. Fitting shall conform to AWWA C110 latest revisions.

174. GH0108O

Cast fitting shall conform to the following specifications; swivel adapter, C153 SSB or C110 mechanical ductile fitting, 8" pipe size by 13" long, mechanical joint by swivel, with accessories. Fitting shall conform to AWWA C110 latest revisions.

175. GH0110O

Cast fitting shall conform to the following specifications; swivel adapter, C153 SSB or C110 mechanical ductile fitting, 10" pipe size by 13" long, mechanical joint by swivel, with accessories. Fitting shall conform to AWWA C100 latest revisions.

176. GH0112O

Cast fitting shall conform to the following specifications; swivel adapter, C153 SSB or C110 mechanical ductile fitting, 12" pipe size by 13" long, mechanical joint by swivel, with accessories. Fitting shall conform to AWWA C110 latest revisions.

SWIVEL TEE CAST FITTING

177. GI0106C

Cast fitting shall conform to the following specifications; straight tee, swivel branch, C153 SSB or C110 mechanical joint ductile fitting, 6" mechanical joint by 6" mechanical joint by 6" swivel, with accessories, cement lined. Fitting shall meet AWWA C110 latest revision.

178. GI0108C



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Cast fitting shall conform to the following specifications; straight tee, swivel branch, C153 SSB or C110 mechanical joint ductile fitting, 8" mechanical joint by 6" mechanical joint by 6" swivel, with accessories, cement lined. Fitting shall meet AWWA C110 latest revision.

11 1/4 DEGREE BEND CAST FITTING

179. GS0104O

Cast fitting shall conform to the following specifications; 11¼ degree bend, C153 SSB or C110 mechanical joint ductile fitting, 4" mechanical joint by 4" mechanical joint, with accessories, cement lined. Fitting shall meet AWWA C110 latest revision.

180. GS0106O

Cast fitting shall conform to the following specifications; 11¼ degree bend, C153 SSB or C110 mechanical joint ductile fitting, 6" mechanical joint by 6" mechanical joint, with accessories, cement lined. Fitting shall meet AWWA C110 latest revision.

181. GS0108O

Cast fitting shall conform to the following specifications; 11¼ degree bend, C153 SSB or C110 mechanical ductile fitting, 8" mechanical joint by 8" mechanical joint, with accessories, cement lined. Fitting shall meet AWWA C110 latest revisions.

182. GS0110O

Cast fitting shall conform to the following specifications; 11¼ degree bend, C153 SSB or C110 mechanical ductile fitting, 10" mechanical joint by 10" mechanical joint, with accessories, cement lined. Fitting shall meet AWWA C110 latest revisions.

183. GS0112O

Cast fitting shall conform to the following specifications; 11¼ degree bend, C153 SSB or C110 mechanical joint ductile fitting, 12" mechanical joint by 12" mechanical joint, with accessories, cement lined. Fitting shall meet AWWA C110 latest revisions.

184. GS0116O

Cast fitting shall conform to the following specifications; 11¼ degree bend, C153 SSB or C110 mechanical joint ductile fitting, 16" mechanical joint by 16" mechanical joint, with accessories, cement lined. Fitting shall meet AWWA C110 latest revisions.

SOLID SLEEVE CAST FITTING

185. IE0404B

Cast fitting shall conform to the following specifications; solid sleeve, standard, C153 SSB or C110 mechanical joint ductile fitting, 4" mechanical joint by 4" mechanical joint, with accessories, cement lined. Fitting shall meet AWWA C110 latest revisions.

186. IE0406B

Cast fitting shall conform to the following specifications; solid sleeve, standard, C153 SSB or C110 mechanical joint ductile fitting, 6" mechanical joint by 6" mechanical joint, with accessories, cement lined. Fitting shall meet AWWA C110 latest revision.

187. IE0408B

Cast fitting shall conform to the following specifications; solid sleeve standard, C153 SSB or C110 mechanical joint ductile fitting, 8" mechanical joint by 8" mechanical joint, with accessories, cement lined. Fitting shall meet AWWA C110 latest revision.

188. IE0410B



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Cast fitting shall conform to the following specifications; solid sleeve, standard, C153 SSB or C110 mechanical joint ductile fitting, 10" mechanical joint by 10" mechanical joint, with accessories, cement lined. Fitting shall meet AWWA C110 latest revisions.

189. IE0412B

Cast fitting shall conform to the following specifications; solid sleeve, standard, C153 SSB or C110 mechanical joint ductile fitting, 12" mechanical joint by 12" mechanical joint, with accessories, cement lined. Fitting shall meet AWWA C110 latest revisions.

TAPPED PLUG CAST FITTING

190. LB0104A

Cast fitting shall conform to the following specifications; tapped plug, C153 SSB or C110 mechanical joint ductile fitting, 4" mechanical joint, 2" female national pipe thread. Fitting shall meet AWWA C110 latest revisions.

191. LB0106A

Cast fitting shall conform to the following specifications; tapped plug, C153 SSB or C110 mechanical joint ductile fitting, 6" mechanical joint, 2" female national pipe thread. Fitting shall meet AWWA C110 latest revisions.

192. LB0108A

Cast fitting shall conform to the following specifications; tapped plug, C153 SSB or C110 mechanical joint ductile fitting, 8" mechanical joint, 2" female national pipe thread. Fitting shall meet AWWA C110 latest revisions.

193. LB0110A

Cast fitting shall conform to the following specifications; tapped plug, C153 SSB or C110 mechanical joint ductile fitting, 10" mechanical joint, 2" female national pipe thread. Fitting shall meet AWWA C110 latest revisions.

194. LB0112A

Cast fitting shall conform to the following specifications; tapped plug, C153 SSB or C110 mechanical joint ductile fitting, 12" mechanical joint, 2" female national pipe thread. Fitting shall meet AWWA C110 latest revision.

195. LB0116A

Cast fitting shall conform to the following specifications; tapped plug, C153 SSB or C110 mechanical joint ductile fitting, 16" mechanical joint, 2" female national pipe thread. Fitting shall meet AWWA C110 latest revisions. (Tyler 5-152 or 5-652)

TAPPED TEE CAST FITTING

196. LC0104A

Cast fitting shall conform to the following specifications; tapped tee, C153 SSB or C110 mechanical joint ductile fitting, 4" mechanical joint by 4" mechanical joint, 2" female national pipe thread, with accessories, cement lined. Fitting shall meet AWWA C110 latest revision.

197. LC0106A

Cast fitting shall conform to the following specifications; tapped tee, C153 SSB or C110 mechanical joint ductile fitting, 6" mechanical joint by 6" mechanical joint, 2" female national pipe thread, with accessories, cement lined. Fitting shall meet AWWA C110 latest revisions.

198. LC0108A



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Cast fitting shall conform to the following specifications; tapped tee, C153 SSB or C110 mechanical joint ductile fitting, 8" mechanical joint by 8" mechanical joint, 2" female national pipe thread, with accessories, cement lined. Fitting shall meet AWWA C110 latest revisions.

FIRE HYDRANT

Fire hydrants shall conform to the following specifications; hydrants shall be post type dry barrel design traffic model with breakaway safety flange and stem coupling; "O" ring stem seals with sealed oil reservoir lubricating stem on operation; compression type main valve 5 ¼ inch, closing with pressure; bronze seat ring shall thread into a bronze drain ring forming an all bronze drainway with positive sealing; and two bronze drain outlets; main valve shall be ¾ inch thick neoprene; 1½ inch all bronze pentagon operating nut with anti-friction washer opening left; two 2½ inch hose nozzles and one 4½ inch pumper nozzle with National Standard Hose Threads; openings shall be in line with each other. Hydrants shall have asphalt base varnish on the outside of lower barrel and shoe. The inside of the shoe shall be epoxy coated, minimum 8 mils thickness. The Fire Hydrant shall be painted OSHA-Safety Yellow 1813 or equal. Fire hydrant shoe shall be 6" mechanical joint for ductile iron or C900 pipe. Fire hydrant shall conform to AWWA C-502 latest revision. Only fire hydrants listed below will be accepted.

(M & H 129) (MUELLER SUPER CENTURION A-423) (CLOW MEDALLION) (AMERICAN DARLING B-84-B) (East Jordon)

199. **DA0036O**

3' (36" bury)

200. **DA0042O**

31/2' (42" bury)

201. **DA0048O**

4' (48" bury)

202. **DA0060O**

5' (60" bury)

PVC PIPE

203. **AA0102A**

PVC pipe shall conform to the following specifications; Polyvinyl Chloride Pipe; class 200 (DR21); bell end; elastometric-gasket glued in place; spigot ends shall be beveled and reference marked to facilitate in joining and insure proper seating depth; 20 foot lengths; domestic made, 2" pipe size. PVC pipe shall meet the requirements of ASTM D-2241. (Diamond) (JM-Eagle) (Nappco)

CAST COUPLING

Wide Range Transition coupling shall conform to the following specifications; ductile iron sleeve, ductile iron flange follower, standard grade gaskets suitable for use in potable water, corrosion resistant high strength low alloy hardware with 12" in Length. Meeting AWWA D111 latest revisions, epoxy coated. (Ford FC2W SIZE 12L) (Smith Blair Quantum) (Romac XR-501)

204. **IC0504A**

4"

205. **IC0506A**

6"

206. **IC0508A**

8"



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CAST COUPLING

Transition coupling shall conform to the following specifications; ductile iron sleeve, ductile iron flange follower, standard grade gaskets suitable for use in potable water, corrosion resistant high strength low alloy hardware meeting AWWA D111 latest revisions, epoxy coated. (Ford FC2A) (JCM-212) (Smith Blair 441 Omni) (Romac 501)

207. IC0510A

10" (1160-1201 to 11:10)

208. IC0512A

12" (1392-1426 to 13:20)

209. IC0516A

16" (1765-1890 to 1732-1750)

210. IC0518A

18" (1992 to C-900)

211. ID0410A

Cast coupling shall conform to the following specifications; ductile iron sleeve, ductile iron flange follower, standard grade gaskets suitable for use in potable water, corrosion resistant high strength low alloy hardware meeting AWWA C111 latest revisions, epoxy coated. Sized to fit 11.10"-11.40" pipe diameter. (Smith Blair 441) (JCM 210) (Ford FC1) (Romac 501) (Power Seal 3501) (Dresser 153)

212. ID0412A

Cast coupling shall conform to the following specifications; ductile iron sleeve, ductile iron flange follower, standard grade gaskets suitable for use in potable water, corrosion resistant high strength low alloy hardware meeting AWWA C111 latest revisions, epoxy coated. Sized to fit 13.20"-13.50" pipe diameter. (Smith Blair 441) (JCM 210) (Ford FC1) (Romac 501) (Power Seal 3501) (Dresser 153)

213. ID0416A

Cast coupling shall conform to the following specifications; ductile iron sleeve, ductile iron flange follower, standard grade gaskets suitable for use in potable water, corrosion resistant high strength low alloy hardware meeting AWWA C111 latest revisions, epoxy coated. Sized to fit 17.32"-17.50" pipe diameter. (Smith Blair 441) (JCM 210) (Ford FC2A) (Romac 501) (Power Seal 3501) (Dresser 153)

REPAIR CLAMP, SINGLE BAND

214. JA0604D

Repair clamp shall meet the following specifications; single full circle type 304 stainless steel band with stainless steel bridge plate, standard grade gasket suitable for use in potable water with tapered ends and grid pattern, corrosion resistant high strength low alloy hardware meeting AWWA C111 latest revisions. Ductile iron lugs with stabilizing fingers. Sized to fit 4.74"- 5.14" pipe O.D. band length of 8" (Smith Blair 226) (FORD F1)

215. JA0404D

Repair clamp shall meet the following specifications; single full circle type 304 stainless steel band with stainless steel bridge plate, standard grade gasket suitable for use in potable water with tapered ends and grid pattern, corrosion resistant high strength low alloy hardware meeting AWWA C111 latest revisions. Ductile iron lugs with stabilizing fingers. Sized to fit 4.45" to 4.73" pipe O.D. band length of 8" (Smith Blair 226) (FORD F1)

216. JA0404H



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Repair clamp shall meet the following specifications; single full circle type 304 stainless steel band with stainless steel bridge plate, standard grade gasket suitable for use in potable water with tapered ends and grid pattern, corrosion resistant high strength low alloy hardware meeting AWWA C111 latest revisions. Ductile iron lugs with stabilizing fingers. Sized to fit 4.45"- 4.73" pipe O.D. band length of 12"-13".

(Smith Blair 226) (FORD F1)

217. JA0604H

Repair clamp shall meet the following specifications; single full circle type 304 stainless steel band with stainless steel bridge plate, standard grade gasket suitable for use in potable water with tapered ends and grid pattern, corrosion resistant high strength low alloy hardware meeting AWWA C111 latest revisions. Ductile iron lugs with stabilizing fingers. Sized to fit 4.74" to 5.14" pipe O.D. band length of 12"-13".

(Smith Blair 226) (FORD F1)

218. JA0404P

Repair clamp shall meet the following specifications; single full circle type 304 stainless steel band with stainless steel bridge plate, standard grade gasket suitable for use in potable water with tapered ends and grid pattern, corrosion resistant high strength low alloy hardware meeting AWWA C111 latest revisions. Ductile iron lugs with stabilizing fingers. Sized to fit 4.45"-5.14" pipe O.D. band length of 18"-20".

(Smith Blair 226) (FORD F2)

219. JA0406D

Repair clamp shall meet the following specifications; single full circle type 304 stainless steel band with stainless steel bridge plate, standard grade gasket suitable for use in potable water with tapered ends and grid pattern, corrosion resistant high strength low alloy hardware meeting AWWA C111 latest revisions. Ductile iron lugs with stabilizing fingers. Sized to fit 6.84"-7.25" pipe O.D. band length of 7½"-8".

(Smith Blair 226) (FORD F1)

220. JA0406H

Repair clamp shall meet the following specifications; single full circle type 304 stainless steel band with stainless steel bridge plate, standard grade gasket suitable for use in potable water with tapered ends and grid pattern, corrosion resistant high strength low alloy hardware meeting AWWA C111 latest revisions. Ductile iron lugs with stabilizing fingers. Sized to fit 6.84"-7.25" pipe OD band length of 12"-12½".

(Smith Blair 226) (Ford F1)

221. JA0406P

Repair clamp shall meet the following specifications; single full circle type 304 stainless steel band with stainless steel bridge plate, standard grade gasket suitable for use in potable water with tapered ends and grid pattern, corrosion resistant high strength low alloy hardware meeting AWWA C111 latest revisions. Ductile iron lugs with stabilizing fingers. Sized to fit 6.84"-7.25" pipe OD band length of 18"-20".

(Smith Blair 226) (Ford F1)

222. JA0408D

Repair clamp shall meet the following specifications; single full circle type 304 stainless steel band with stainless steel bridge plate, standard grade gasket suitable for use in potable water with tapered ends and grid pattern, corrosion resistant high strength low alloy hardware meeting AWWA C111 latest revisions. Ductile iron lugs with stabilizing fingers. Sized to fit 8.99"-9.40" pipe OD band length of 7½"-8".

(Smith Blair 226) (Ford F1)

223. JA0408I

Repair clamp shall meet the following specifications; single full circle type 304 stainless steel band with stainless steel bridge plate, standard grade gasket suitable for use in potable water with tapered ends and grid pattern, corrosion resistant high strength low alloy hardware meeting AWWA C111 latest



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revisions. Ductile iron lugs with stabilizing fingers. Sized to fit 8.99"-9.40" pipe OD band length of 12"-12½".

(Smith Blair 226) (Ford F1)

224. JA0408P

Repair clamp shall meet the following specifications; single full circle type 304 stainless steel band with stainless steel bridge plate, standard grade gasket suitable for use in potable water with tapered ends and grid pattern, corrosion resistant high strength low alloy hardware meeting AWWA C111 latest revisions. Ductile iron lugs with stabilizing fingers. Sized to fit 8.99"-9.40" pipe OD band length of 18"-20". (Smith Blair 226) (Ford F1)

225. JA1002H

Repair clamp shall meet the following specifications; single full circle type 304 stainless steel band with stainless steel bridge plate, standard grade gasket suitable for use in potable water with tapered ends and grid pattern, corrosion resistant high strength low alloy hardware meeting AWWA C111 latest revisions. Ductile iron lugs with stabilizing fingers. Sized to fit 2" steel pipe. Band length of 15". (Smith Blair 226) (Ford F1)

REPAIR CLAMPS, DOUBLE BAND

226. JB0404D

Repair clamp shall meet the following specifications; Double full circle type 304 stainless steel band with stainless steel bridge plate, standard grade gasket suitable for use in potable water with tapered ends and grid pattern, corrosion resistant high strength low alloy hardware meeting AWWA C111 latest revisions. Ductile iron lugs with stabilizing fingers. Sized to fit 4.74"-5.57" OD pipe. Band length of 7.5" to 8".

(Smith Blair 227) (Ford F2)

227. JB1006I

Repair clamp shall meet the following specifications; Double full circle type 304 stainless steel band with stainless steel bridge plate, standard grade gasket suitable for use in potable water with tapered ends and grid pattern, corrosion resistant high strength low alloy hardware meeting AWWA C111 latest revisions. Ductile iron lugs with stabilizing fingers. Sized to fit 6.84"-7.64" OD pipe. Band length of 12" to 12.5".

(Smith Blair 227) (Ford F2)

228. JB0408I

Repair clamp shall meet the following specifications; Double full circle type 304 stainless steel band with stainless steel bridge plate, standard grade gasket suitable for use in potable water with tapered ends and grid pattern, corrosion resistant high strength low alloy hardware meeting AWWA C111 latest revisions. Ductile iron lugs with stabilizing fingers. Sized to fit 8.99"-9.79" OD pipe. Band length of 12".

(Smith Blair 227) (Ford F2)

229. JB1010H

Repair clamp shall meet the following specifications; Double full circle type 304 stainless steel band with stainless steel bridge plate, standard grade gasket suitable for use in potable water with tapered ends and grid pattern, corrosion resistant high strength low alloy hardware meeting AWWA C111 latest revisions. Ductile iron lugs with stabilizing fingers. Sized to fit 11.10"-11.90" OD pipe. Band length of 12".

(Smith Blair 227) (Ford F2)

230. JB1012H

Repair clamp shall meet the following specifications; Double full circle type 304 stainless steel band with stainless steel bridge plate, standard grade gasket suitable for use in potable water with tapered ends and grid pattern, corrosion resistant high strength low alloy hardware meeting AWWA C111 latest revisions. Ductile iron lugs with stabilizing fingers. Sized to fit 13.14"-14.34" OD pipe. Band length of 12".

(Smith Blair 227) (Ford F2)



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231. JB0316F

Repair clamp shall meet the following specifications; Double full circle type 304 stainless steel band with stainless steel bridge plate, standard grade gasket suitable for use in potable water with tapered ends and grid pattern, corrosion resistant high strength low alloy hardware meeting AWWA C111 latest revisions. Ductile iron lugs with stabilizing fingers. Sized to fit 17.15"-17.90" OD pipe. Band length of 15". (Smith Blair 227) (Ford F2)

232. JB0212S

Repair clamp shall meet the following specifications; Double full circle type 304 stainless steel band with stainless steel bridge plate, standard grade gasket suitable for use in potable water with tapered ends and grid pattern, corrosion resistant high strength low alloy hardware meeting AWWA C111 latest revisions. Ductile iron lugs with stabilizing fingers. Sized to fit 13.65"-14.65" OD pipe. Band length of 20" to 24".

(Smith Blair 227) (Ford F2)

233. JB0312P

Repair clamp shall meet the following specifications; Double full circle type 304 stainless steel band with stainless steel bridge plate, standard grade gasket suitable for use in potable water with tapered ends and grid pattern, corrosion resistant high strength low alloy hardware meeting AWWA C111 latest revisions. Ductile iron lugs with stabilizing fingers. Sized to fit 13.14"-14.34" OD pipe. Band length of 20". (Smith Blair 228) (Ford F2)

234. JB0313P

Repair clamp shall meet the following specifications; Double full circle type 304 stainless steel band with stainless steel bridge plate, standard grade gasket suitable for use in potable water with tapered ends and grid pattern, corrosion resistant high strength low alloy hardware meeting AWWA C111 latest revisions. Ductile iron lugs with stabilizing fingers. Sized to fit 15.07"-15.82" OD pipe. Band length of 20". (Smith Blair 228) (Ford F2)

235. JB0112N

Repair clamp shall meet the following specifications; Double full circle type 304 stainless steel band with stainless steel bridge plate, standard grade gasket suitable for use in potable water with tapered ends and grid pattern, corrosion resistant high strength low alloy hardware meeting AWWA C111 latest revisions. Ductile iron lugs with stabilizing fingers. Sized to fit 15.92"-16.67" OD pipe. Band length of 20". (Smith Blair 228) (Ford F2)

236. JB0118N

Repair clamp shall meet the following specifications; Double full circle type 304 stainless steel band with stainless steel bridge plate, standard grade gasket suitable for use in potable water with tapered ends and grid pattern, corrosion resistant high strength low alloy hardware meeting AWWA C111 latest revisions. Ductile iron lugs with stabilizing fingers. Sized to fit 18.00"-19.20" OD pipe. Band length of 15"-16".

(Smith Blair 228) (Ford F2)

237. JB0120N

Repair clamp shall meet the following specifications; Double full circle type 304 stainless steel band with stainless steel bridge plate, standard grade gasket suitable for use in potable water with tapered ends and grid pattern, corrosion resistant high strength low alloy hardware meeting AWWA C111 latest revisions. Ductile iron lugs with stabilizing fingers. Sized to fit 19.40"-20.40" OD pipe. Band length of 18"-20".

(Smith Blair 228) (Ford F2)

238. JB0220P

Repair clamp shall meet the following specifications; Double full circle type 304 stainless steel band with stainless steel bridge plate, standard grade gasket suitable for use in potable water with tapered ends



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and grid pattern, corrosion resistant high strength low alloy hardware meeting AWWA C111 latest revisions. Ductile iron lugs with stabilizing fingers. Sized to fit 21.40"-22.40" OD pipe. Band length of 20". (Smith Blair 228) (Ford F2)

REPAIR PATCH CLAMP

239. JC1002A

Repair clamp shall meet the following specifications; Band shall have type 304 stainless steel, standard grade gasket suitable for use in potable water with tapered ends and grid pattern, ductile iron lug, bolts to be electro- galvanized with di-chromate seal, single bolt design. Sized to fit 2.38" pipe diameter, band length of 3".

(Smith Blair 227) (Ford FSC)

240. JC1003A

Repair clamp shall meet the following specifications; Band shall have type 304 stainless steel, standard grade gasket suitable for use in potable water with tapered ends and grid pattern, ductile iron lug, bolts to be electro- galvanized with di-chromate seal, single bolt design. Sized to fit 3.50" pipe diameter, band length of 3".

(Smith Blair 245) (Ford FSC)

241. JC1095A

Repair clamp shall meet the following specifications; Band shall have type 304 stainless steel, standard grade gasket suitable for use in potable water with tapered ends and grid pattern, ductile iron lug, bolts to be electro- galvanized with di-chromate seal, single bolt design. Sized to fit 0.84" pipe diameter, band length of 3".

(Smith Blair 245) (Ford FSC)

242. JC1096A

Repair clamp shall meet the following specifications; Band shall have type 304 stainless steel, standard grade gasket suitable for use in potable water with tapered ends and grid pattern, ductile iron lug, bolts to be electro- galvanized with di-chromate seal, single bolt design. Sized to fit 1.05" pipe diameter, band length of 3".

(Smith Blair 245) (Ford FSC)

243. JC1097A

Repair clamp shall meet the following specifications; Band shall have type 304 stainless steel, standard grade gasket suitable for use in potable water with tapered ends and grid pattern, ductile iron lug, bolts to be electro- galvanized with di-chromate seal, single bolt design. Sized to fit 1.32" pipe diameter, band length of 3".

(Smith Blair 245) (Ford FSC)

244. JC1098A

Repair clamp shall meet the following specifications; Band shall have type 304 stainless steel, standard grade gasket suitable for use in potable water with tapered ends and grid pattern, ductile iron lug, bolts to be electro- galvanized with di-chromate seal, single bolt design. Sized to fit 1.66" pipe diameter, band length of 3".

(Smith Blair 245) (Ford FSC)

245. JC1099A

Repair clamp shall meet the following specifications; Band shall have type 304 stainless steel, standard grade gasket suitable for use in potable water with tapered ends and grid pattern, ductile iron lug, bolts to be electro- galvanized with di-chromate seal, single bolt design. Sized to fit 1.90" pipe diameter, band length of 3".

(Smith Blair 245) (Ford FSC)

246. JC1002B



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Repair clamp shall meet the following specifications; Band shall have type 304 stainless steel, standard grade gasket suitable for use in potable water with tapered ends and grid pattern, ductile iron lug, bolts to be electro- galvanized with di-chromate seal, two bolt design. Sized to fit 2.38" pipe diameter, band length of 6".

(Smith Blair 245) (Ford FSC)

247. JC1098B

Repair clamp shall meet the following specifications; Band shall have type 304 stainless steel, standard grade gasket suitable for use in potable water with tapered ends and grid pattern, ductile iron lug, bolts to be electro- galvanized with di-chromate seal, two bolt design. Sized to fit 1.66" pipe diameter, band length of 6".

(Smith Blair 245) (Ford FSC)

248. JC1099B

Repair clamp shall meet the following specifications; Band shall have type 304 stainless steel, standard grade gasket suitable for use in potable water with tapered ends and grid pattern, ductile iron lug, bolts to be electro- galvanized with di-chromate seal, two bolt design. Sized to fit 1.90" pipe diameter, band length of 6".

(Smith Blair 245) (Ford FSC)

FULL CIRCLE

249. JE1002D

Repair clamp shall meet the following specifications; single full circle type 304 stainless steel band with stainless steel bridge plate, standard grade gasket suitable for use in potable water with tapered ends and grid pattern, corrosion resistant high strength low alloy hardware meeting AWWA C111 latest revisions. Ductile iron lugs with stabilizing fingers. Sized to fit 2.35"-2.63" pipe diameter. Band length of 7½"-8".

(Smith Blair 226) (Ford F1)

250. JH0404B

Repair clamp shall meet the following specifications; single full circle type 304 stainless steel band with stainless steel bridge plate, standard grade gasket suitable for use in potable water with tapered ends and grid pattern, corrosion resistant high strength low alloy hardware meeting AWWA C111 latest revisions. Ductile iron lugs with stabilizing fingers. Sized to fit 4.74"-5.14" pipe O.D. x 1" cc outlet . Band length of 7.5" to 8".

(Smith Blair 238) (Ford F1)

251. JH0404H

Repair clamp shall meet the following specifications; single full circle type 304 stainless steel band with stainless steel bridge plate, standard grade gasket suitable for use in potable water with tapered ends and grid pattern, corrosion resistant high strength low alloy hardware meeting AWWA C111 latest revisions. Ductile iron lugs with stabilizing fingers. Sized to fit 4.74"-5.14" pipe O.D. x 1" cc outlet . Band length of 12 to 12.5.

(Smith Blair 238) (Ford F1)

252. JH0406D

Repair clamp shall meet the following specifications; single full circle type 304 stainless steel band with stainless steel bridge plate, standard grade gasket suitable for use in potable water with tapered ends and grid pattern, corrosion resistant high strength low alloy hardware meeting AWWA C111 latest revisions. Ductile iron lugs with stabilizing fingers. Sized to fit 6.87"-7.24" pipe O.D. x 1" cc outlet . Band length of 7.5" - 8".

(Smith Blair 238) (Ford F1)

253. JH0406H



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Repair clamp shall meet the following specifications; single full circle type 304 stainless steel band with stainless steel bridge plate, standard grade gasket suitable for use in potable water with tapered ends and grid pattern, corrosion resistant high strength low alloy hardware meeting AWWA C111 latest revisions. Ductile iron lugs with stabilizing fingers. Sized to fit 6.87"-7.24" pipe O.D. x 1" cc outlet . Band length of 12" – 12.5".

(Smith Blair 238) (Ford F1)

254. JH0408B

Repair clamp shall meet the following specifications; single full circle type 304 stainless steel band with stainless steel bridge plate, standard grade gasket suitable for use in potable water with tapered ends and grid pattern, corrosion resistant high strength low alloy hardware meeting AWWA C111 latest revisions. Ductile iron lugs with stabilizing fingers. Sized to fit 8.99"-9.39" pipe O.D. x 1" cc outlet . Band length of 7.5" - 8".

(Smith Blair 238) (Ford F1)

255. JH0408I

Repair clamp shall meet the following specifications; single full circle type 304 stainless steel band with stainless steel bridge plate, standard grade gasket suitable for use in potable water with tapered ends and grid pattern, corrosion resistant high strength low alloy hardware meeting AWWA C111 latest revisions. Ductile iron lugs with stabilizing fingers. Sized to fit 8.99"-9.39" pipe O.D. x 1" cc outlet . Band length of 12" – 12.5".

(Smith Blair 238) (Ford F1)

256. JH0410I

Repair clamp shall meet the following specifications; single full circle type 304 stainless steel band with stainless steel bridge plate, standard grade gasket suitable for use in potable water with tapered ends and grid pattern, corrosion resistant high strength low alloy hardware meeting AWWA C111 latest revisions. Ductile iron lugs with stabilizing fingers. Sized to fit 11.10"-11.90" pipe O.D. x 1" cc outlet . Band length of 12" – 12.5".

(Smith Blair 239) (Ford F2)

257. JH0412I

Repair clamp shall meet the following specifications; single full circle type 304 stainless steel band with stainless steel bridge plate, standard grade gasket suitable for use in potable water with tapered ends and grid pattern, corrosion resistant high strength low alloy hardware meeting AWWA C111 latest revisions. Ductile iron lugs with stabilizing fingers. Sized to fit 13.10-13.50" pipe O.D. x 1" cc outlet . Band length of 12" – 12.5".

(Smith Blair 239) (Ford F1)

COMPRESSION COUPLING

258. UD1001C

Compression coupling shall conform to the following specifications; body shall be carbon steel tubing; standard grade gasket suitable for use in potable water, nut shall be malleable iron ASTM 47, finish shall be galvanized. ½"nominal pipe size, sized to fit .84" pipe O.D., 4 3/8" in length.

(Smith Blair 525)

259. UD1002C

Compression coupling shall conform to the following specifications; body shall be carbon steel tubing; standard grade gasket suitable for use in potable water, nut shall be malleable iron ASTM 47, finish shall be galvanized. ¾"nominal pipe size, sized to fit 1.05" pipe O.D., 4 3/8" in length.

(Smith Blair 525)

260. UD1003C



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Compression coupling shall conform to the following specifications; body shall be carbon steel tubing; standard grade gasket suitable for use in potable water, nut shall be malleable iron ASTM 47, finish shall be galvanized. 1" nominal pipe size, sized to fit 1.32" pipe O.D., 4 3/4" in length.
(Smith Blair 525)

261. UD1004C

Compression coupling shall conform to the following specifications; body shall be carbon steel tubing; standard grade gasket suitable for use in potable water, nut shall be malleable iron ASTM 47, finish shall be galvanized. 1 1/4" nominal pipe size, sized to fit 1.66" pipe O.D., 5 1/8" in length.
(Smith Blair 525)

262. UD1005C

Compression coupling shall conform to the following specifications; body shall be carbon steel tubing; standard grade gasket suitable for use in potable water, nut shall be malleable iron ASTM 47, finish shall be galvanized. 1 1/2" nominal pipe size, sized to fit 1.90" pipe O.D., 5 3/8" in length.
(Smith Blair 525)

263. UD1006D

Coupling shall conform to the following specifications; two bolt, steel sleeve and followers, standard grade gasket suitable for use in potable water, corrosion resistant hardware, shop coat finish. Coupling shall fit 2.375" pipe diameter, 5" in length.
(Smith Blair 411) (Ford FSC)

264. UD1007E

Coupling shall conform to the following specifications; two bolt, steel sleeve and followers, standard grade gasket suitable for use in potable water, corrosion resistant hardware, shop coat finish. Coupling shall fit 2.875" pipe diameter, 5" in length.
(Smith Blair 411) (Ford IC3)

265. UD1008E

Coupling shall conform to the following specifications; two bolt, steel sleeve and followers, standard grade gasket suitable for use in potable water, corrosion resistant hardware, shop coat finish. Coupling shall fit 3.500" pipe diameter, 5" in length.
(Smith Blair 411) (Ford IC3)

SERVICE SADDLES

266. EA0106B

6"x1" Service Saddle

Service saddle shall conform to the following specifications; bronze body, bronze double straps with bronze nuts, rubber or neoprene seal attached to the body. Saddle shall fit 6.00" to 7.75" pipe diameters. Body shall have female 1" AWWA corporation threads. Saddle shall conform to AWWA C800 latest revision.

(Ford 202B) (James Jones J-979) (Romac 202B) (Smith-Blair 323)

267. EA0108B

8"x1" Service Saddle

Service saddle shall conform to the following specifications; bronze body, bronze double straps with bronze nuts, rubber or neoprene seal attached to the body. Saddle shall fit 9.61" pipe diameters. Body shall have female 1" AWWA corporation threads. Saddle shall conform to AWWA C800 latest revision.
(Ford 202B) (James Jones J-979) (Romac 202B) (Smith-Blair 323)

268. EA0202B

2"x1" Service Saddle

Service saddle shall conform to the following specifications; bronze body, bronze single double wide strap with bronze nuts, rubber or neoprene seal attached to the body. Saddle shall fit 2.375" pipe diameters. Body shall have female 1" AWWA corporation threads. Saddle shall conform to AWWA C800 latest revision. (Ford S-70) (James Jones J-995) (Smith-Blair 393)



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269. EA0204B

4"x1" Service Saddle

Service saddle shall conform to the following specifications; bronze body, bronze single double wide strap with bronze nuts, rubber or neoprene seal attached to the body. Saddle shall fit 4.50" pipe diameters. Body shall have female 1" AWWA corporation threads. Saddle shall conform to AWWA C800 latest revision. (Ford S-70) (James Jones J-995) (Romac 101-B) (Smith-Blair 393) (McDonald)

270. EA0206B

6"x1" Service Saddle

Service saddle shall conform to the following specifications; bronze body, bronze single double wide strap with bronze nuts, rubber or neoprene seal attached to the body. Saddle shall fit 6.90" pipe diameters. Body shall have female 1" AWWA corporation threads. Saddle shall conform to AWWA C800 latest revision.

(James Jones J-996) (Romac 101B) (Smith-Blair 393) (Ford S-90)

271. EA0208B

8"x1" Service Saddle

Service saddle shall conform to the following specifications; bronze body, bronze single double wide strap with bronze nuts, rubber or neoprene seal attached to the body. Saddle shall fit 9.05" pipe diameter. Body shall have female 1" AWWA corporation threads. Saddle shall conform to AWWA C800 latest revision.

(James Jones J-996) (Romac 101B) (Smith-Blair 393) (Ford S-90) (McDonald)

272. EA0212B

12"x1" Service Saddle

Service saddle shall conform to the following specifications; bronze body, bronze single double wide strap with bronze nuts, rubber or neoprene seal attached to the body. Saddle shall fit 13.205" pipe diameters.

Body shall have female 1" AWWA corporation threads. Saddle shall conform to AWWA C800 latest revision. (James Jones J-996) (Romac 101B) (Smith-Blair 393) (Ford S-90) (McDonald)

273. EA0310B

10"x1" Service Saddle

Service saddle shall conform to the following specifications; bronze body, bronze single double wide strap with bronze nuts, rubber or neoprene seal attached to the body. Saddle shall fit 11.50" pipe diameters.

Body shall have female 1" AWWA corporation threads. Saddle shall conform to AWWA C800 latest revision. (Ford S90) (James Jones J-979) (Romac 202B) (Smith-Blair 323) (McDonald)

274. EA0312B

12"x1" Service Saddle

Service saddle shall conform to the following specifications; bronze body, bronze double straps with bronze nuts, rubber or neoprene seal attached to the body. Saddle shall fit 13.20" to 14.20" pipe diameters. Body shall have female 1" AWWA corporation threads. Saddle shall conform to AWWA C800 latest revision. (Ford 202B) (James Jones J-979) (Romac 202B) (Smith-Blair 323) (McDonald)

275. EA0314B

14"x1" Service Saddle

Service saddle shall conform to the following specifications; bronze body, bronze double straps with bronze nuts, rubber or neoprene seal attached to the body. Saddle shall fit 16.32" to 17.26" pipe diameters. Body shall have female 1" AWWA corporation threads. Saddle shall conform to AWWA C800 latest revision. (Ford 202B) (James Jones J-979) (Romac 202B) (Smith-Blair 323)

276. EA0316B

16"x1" Service Saddle

Service saddle shall conform to the following specifications; bronze body, bronze double straps with bronze nuts, rubber or neoprene seal attached to the body. Saddle shall fit 16.32" to 17.26" pipe diameters. Body shall have female 1" AWWA corporation threads. Saddle shall conform to AWWA C800 latest revision. (Ford 202B) (James Jones J-979) (Romac 202B) (Smith-Blair 323) (McDonald)

277. EA0702A

2"x1" Service Saddle



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Service saddle shall conform to the following specifications; bronze body, bronze single straps with bronze nuts, rubber or neoprene seal attached to the body. Saddle shall fit 2.50" pipe diameter. Body shall have female 1" AWWA corporation threads. Saddle shall conform to AWWA C800 latest revision. (James Jones J-975) (Smith-Blair 321) (FORD –S70)

278. ED0108B

8"x2" Service Saddle

Service saddle shall conform to the following specifications; bronze body, bronze double straps with bronze nuts, rubber or neoprene seal attached to the body. Saddle shall fit 9.40" pipe diameter. Body shall have 2" female national pipe threads. Saddle shall conform to AWWA C800 latest revision. (Ford202-B) (James Jones J-979) (Smith-Blair 323) (Romac 202-B) (McDonald)

279. ED0204B

4"x2" Service Saddle

Service saddle shall conform to the following specifications; bronze body, bronze double straps with bronze nuts, rubber or neoprene seal attached to the body. Saddle shall fit 4.50" pipe diameter. Body shall have 2" female national pipe threads. Saddle shall conform to AWWA C800 latest revision. (Ford S-70) (James Jones J-996) (Smith-Blair 393) (Romac 202-B) (McDonald)

280. ED0206B

6"x2" Service Saddle

Service saddle shall conform to the following specifications; bronze body, bronze double straps with bronze nuts, rubber or neoprene seal attached to the body. Saddle shall fit 6.90" pipe diameter. Body shall have 2" female national pipe threads. Saddle shall conform to AWWA C800 latest revision. (Ford S-70) (James Jones J-996) (Smith-Blair 393) (Romac 202-B) (McDonald)

281. ED0208B

8"x2" Service Saddle

Service saddle shall conform to the following specifications; bronze body, bronze double straps with bronze nuts, rubber or neoprene seal attached to the body. Saddle shall fit 9.05" pipe diameter. Body shall have 2" female national pipe threads. Saddle shall conform to AWWA C800 latest revision. (Ford 202B) (James Jones J-996) (Smith-Blair 393) (Romac 202-B) (McDonald)

282. ED0212B

12"x2" Service Saddle

Service saddle shall conform to the following specifications; bronze body, bronze double straps with bronze nuts, rubber or neoprene seal attached to the body. Saddle shall fit 13.20" pipe diameter. Body shall have 2" female national pipe threads. Saddle shall conform to AWWA C800 latest revision. (Ford 202B) (James Jones J-996) (Smith-Blair 393) (Romac 202-B) (McDonald)

283. ED0306B

6"x2" Service Saddle

Service saddle shall conform to the following specifications; bronze body, bronze double straps with bronze nuts, rubber or neoprene seal attached to the body. Saddle shall fit 6.00" TO 7.75" pipe diameters. Body shall have 2" female national pipe threads. Saddle shall conform to AWWA C800 latest revision. (Ford 202B) (James Jones J-979) (Smith-Blair 323) (Romac202-B) (McDonald)

284. ED0310B

10"x2" Service Saddle

Service saddle shall conform to the following specifications; bronze body, bronze double straps with bronze nuts, rubber or neoprene seal attached to the body. Saddle shall fit 11.10" TO 11.50" pipe diameters. Body shall have 2" female national pipe threads. Saddle shall conform to AWWA C800 latest revision. (Ford 202B) (James Jones J-979) (Smith-Blair 323) (Romac 202-B) (McDonald)

285. ED0312B

12"x2" Service Saddle

Service saddle shall conform to the following specifications; bronze body, bronze double straps with bronze nuts, rubber or neoprene seal attached to the body. Saddle shall fit 13.20" TO 14.21" pipe



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diameters. Body shall have 2" female national pipe threads. Saddle shall conform to AWWA C800 latest revision. (Ford 202B) (James Jones J-979) (Smith-Blair 323) (Romac 202-B) (McDonald)

286. ED0316B

16"x2" Service Saddle

Service saddle shall conform to the following specifications; bronze body, bronze double straps with bronze nuts, rubber or neoprene seal attached to the body. Saddle shall fit 17.40" TO 18.97" pipe diameters. Body shall have 2" female national pipe threads. Saddle shall conform to AWWA C800 latest revision. (Ford 202B) (James Jones J-979) (Smith-Blair 323) (Romac 202-B)

TAP SLEEVES

STAINLESS STEEL TAPPING SLEEVES WITH STAINLESS STEEL FLANGE

287. FE0104C

4"x4" Tapping Sleeve

Tapping sleeve shall conform to the following specifications; 304 stainless steel liner; rubber gasket suitable for use in potable water, with grid pattern glued in place to liner; 304 stainless steel armor plates bonded to liner; stainless steel flange, with 150 lb. Drilling; rubber gasket suitable for use in potable water glued in place on flange face; 304 stainless steel hardware coated to prevent galling or seizing; 304 stainless steel test plug. Sized to fit 4" cast iron pipe or C900 pipe. Nominal 4" branch size. (Romac SST Ductile Plus) (Powerseal 3490) (Ford Fast) (Smith-Blair 663)

288. FE0106C

6"x4" Tapping Sleeve

Tapping sleeve shall conform to the following specifications; 304 stainless steel liner; rubber gasket suitable for use in potable water, with grid pattern glued in place to liner; 304 stainless steel armor plates bonded to liner; stainless steel flange, with 150 lb. Drilling; rubber gasket suitable for use in potable water glued in place on flange face; 304 stainless steel hardware coated to prevent galling or seizing; 304 stainless steel test plug. Sized to fit 6" cast iron pipe or C900 pipe. Nominal 4" branch size. (Romac SST Ductile Plus) (Powerseal 3490) (Ford Fast) (Smith-Blair 663)

289. FE0106D

6"x6" Tapping Sleeve

Tapping sleeve shall conform to the following specifications; 304 stainless steel liner; rubber gasket suitable for use in potable water, with grid pattern glued in place to liner; 304 stainless steel armor plates bonded to liner; stainless steel flange, with 150 lb. Drilling; rubber gasket suitable for use in potable water glued in place on flange face; 304 stainless steel hardware coated to prevent galling or seizing; 304 stainless steel test plug. Sized to fit 6" cast iron pipe or C900 pipe. Nominal 6" branch size. (Romac SST Ductile Plus) (Powerseal 3490) (Ford Fast) (Smith-Blair 663)

290. FE0108C

8"x4" Tapping Sleeve

Tapping sleeve shall conform to the following specifications; 304 stainless steel liner; rubber gasket suitable for use in potable water, with grid pattern glued in place to liner; 304 stainless steel armor plates bonded to liner; stainless steel flange, with 150 lb. Drilling; rubber gasket suitable for use in potable water glued in place on flange face; 304 stainless steel hardware coated to prevent galling or seizing; 304 stainless steel test plug. Sized to fit 8" cast iron pipe or C900 pipe. Nominal 4" branch size. (Romac SST Ductile Plus) (Powerseal 3490) (Ford Fast) (Smith-Blair 663)

291. FE0108D

8"x6" Tapping Sleeve

Tapping sleeve shall conform to the following specifications; 304 stainless steel liner; rubber gasket suitable for use in potable water, with grid pattern glued in place to liner; 304 stainless steel armor plates bonded to liner; stainless steel flange, with 150 lb. Drilling; rubber gasket suitable for use in potable water glued in place on flange face; 304 stainless steel hardware coated to prevent galling or seizing; 304 stainless steel test plug. Sized to fit 8" cast iron pipe or C900 pipe. Nominal 6" branch size. (Romac SST Ductile Plus) (Powerseal 3490) (Ford Fast) (Smith-Blair 663)

292. FE0108E

8"x8" Tapping Sleeve



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Tapping sleeve shall conform to the following specifications; 304 stainless steel liner; rubber gasket suitable for use in potable water, with grid pattern glued in place to liner; 304 stainless steel armor plates bonded to liner; stainless steel flange, with 150 lb. Drilling; rubber gasket suitable for use in potable water glued in place on flange face; 304 stainless steel hardware coated to prevent galling or seizing; 304 stainless steel test plug. Sized to fit 8" cast iron pipe or C900 pipe. Nominal 8" branch size.

(Romac SST Ductile Plus) (Powerseal 3490) (Ford Fast) (Smith-Blair 663)

293. FE0110C

10"x4" Tapping Sleeve

Tapping sleeve shall conform to the following specifications; 304 stainless steel liner; rubber gasket suitable for use in potable water, with grid pattern glued in place to liner; 304 stainless steel armor plates bonded to liner; stainless steel flange, with 150 lb. Drilling ; rubber gasket suitable for use in potable water glued in place on flange face; 304 stainless steel hardware coated to prevent galling or seizing; 304 stainless steel test plug. Sized to fit 10" cast iron pipe or C900 pipe. Nominal 4" branch size. (Romac SST Ductile Plus) (Powerseal 3490) (Ford Fast) (Smith-Blair 663)

294. FE0110D

10"x6" Tapping Sleeve

Tapping sleeve shall conform to the following specifications; 304 stainless steel liner; rubber gasket suitable for use in potable water, with grid pattern glued in place to liner; 304 stainless steel armor plates bonded to liner; stainless steel flange, with 150 lb. Drilling ; rubber gasket suitable for use in potable water glued in place on flange face; 304 stainless steel hardware coated to prevent galling or seizing; 304 stainless steel test plug. Sized to fit 10" cast iron pipe or C900 pipe. Nominal 6" branch size.

(Romac SST Ductile Plus) (Powerseal 3490) (Ford Fast) (Smith-Blair 663)

295. FE0110E

10"x8" Tapping Sleeve

Tapping sleeve shall conform to the following specifications; 304 stainless steel liner; rubber gasket suitable for use in potable water, with grid pattern glued in place to liner; 304 stainless steel armor plates bonded to liner; stainless steel paint, with 150 lb. Drilling ; rubber gasket suitable for use in potable water glued in place on flange face; 304 stainless steel hardware coated to prevent galling or seizing; 304 stainless steel test plug. Sized to fit 10" cast iron pipe or C900 pipe. Nominal 8" branch size.

(Romac SST Ductile Plus) (Powerseal 3490) (Ford Fast) (Smith-Blair 663)

296. FE0110F

10"x10" Tapping Sleeve

Tapping sleeve shall conform to the following specifications; 304 stainless steel liner; rubber gasket suitable for use in potable water, with grid pattern glued in place to liner; 304 stainless steel armor plates bonded to liner; stainless steel flange, with 150 lb. Drilling ; rubber gasket suitable for use in potable water glued in place on flange face; 304 stainless steel hardware coated to prevent galling or seizing; 304 stainless steel test plug. Sized to fit 10" cast iron pipe or C900 pipe. Nominal 10" branch size.

(Romac SST Ductile Plus) (Powerseal 3490) (Ford Fast) (Smith-Blair 663)

297. FE0112C

12"x4" Tapping Sleeve

Tapping sleeve shall conform to the following specifications; 304 stainless steel liner; rubber gasket suitable for use in potable water, with grid pattern glued in place to liner; 304 stainless steel armor plates bonded to liner; stainless steel flange, with 150 lb. Drilling ; rubber gasket suitable for use in potable water glued in place on flange face; 304 stainless steel hardware coated to prevent galling or seizing; 304 stainless steel test plug. Sized to fit 12" cast iron pipe or C900 pipe. Nominal 4" branch size.

(Romac SST Ductile Plus) (Powerseal 3490) (Ford Fast) (Smith-Blair 663)

298. FE0112D

12"x6" Tapping Sleeve

Tapping sleeve shall conform to the following specifications; 304 stainless steel liner; rubber gasket suitable for use in potable water, with grid pattern glued in place to liner; 304 stainless steel armor plates bonded to liner; stainless steel flange, with 150 lb. Drilling; rubber gasket suitable for use in potable water glued in place on flange face; 304 stainless steel hardware coated to prevent galling or seizing; 304 stainless steel test plug. Sized to fit 12" cast iron pipe or C900 pipe. Nominal 6" branch size.

(Romac SST Ductile Plus) (Powerseal 3490) (Ford Fast) (Smith-Blair 663)

299. FE0112E

12"x8" Tapping Sleeve



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Tapping sleeve shall conform to the following specifications; 304 stainless steel liner; rubber gasket suitable for use in potable water, with grid pattern glued in place to liner; 304 stainless steel armor plates bonded to liner; stainless steel flange, with 150 lb. Drilling; rubber gasket suitable for use in potable water glued in place on flange face; 304 stainless steel hardware coated to prevent galling or seizing; 304 stainless steel test plug. Sized to fit 12" cast iron pipe or C900 pipe. Nominal 8" branch size.
(Romac SST Ductile Plus) (Powerseal 3490) (Ford Fast) (Smith-Blair 663)

300. FE0112G 12"x12" Tapping Sleeve

Tapping sleeve shall conform to the following specifications; 304 stainless steel liner; rubber gasket suitable for use in potable water, with grid pattern glued in place to liner; 304 stainless steel armor plates bonded to liner; stainless steel flange, with 150 lb. Drilling; rubber gasket suitable for use in potable water glued in place on flange face; 304 stainless steel hardware coated to prevent galling or seizing; 304 stainless steel test plug. Sized to fit 12" cast iron pipe or C900 pipe. Nominal 12" branch size.
(Romac SST Ductile Plus) (Powerseal 3490) (Ford Fast) (Smith-Blair 663)

301. FE0118E 18"x8" Tapping Sleeve

Tapping sleeve shall conform to the following specifications; 304 stainless steel liner; rubber gasket suitable for use in potable water, with grid pattern glued in place to liner; 304 stainless steel armor plates bonded to liner; stainless steel flange, with 150 lb. Drilling; rubber gasket suitable for use in potable water glued in place on flange face; 304 stainless steel hardware coated to prevent galling or seizing; 304 stainless steel test plug. Sized to fit 18" cast iron pipe or C900 pipe. Nominal 8" branch size.
(Romac SST Ductile Plus) (Powerseal 3490) (Ford Fast) (Smith-Blair 663)

302. FE0204C 4"x4" Tapping Sleeve

Tapping sleeve shall conform to the following specifications; 304 stainless steel liner; rubber gasket suitable for use in potable water, with grid pattern glued in place to liner; 304 stainless steel armor plates bonded to liner; stainless steel flange, with 150 lb. Drilling; rubber gasket suitable for use in potable water glued in place on flange face; 304 stainless steel hardware coated to prevent galling or seizing; 304 stainless steel test plug. Sized to fit 4" Class 200 A.C. rough barrel pipe. Nominal 4" branch size.
(Romac SST Ductile Plus) (Powerseal 3490) (Ford Fast) (Smith-Blair 663)

303. FE0206C 6"x4" Tapping Sleeve

Tapping sleeve shall conform to the following specifications; 304 stainless steel liner; rubber gasket suitable for use in potable water, with grid pattern glued in place to liner; 304 stainless steel armor plates bonded to liner; stainless steel flange, with 150 lb. Drilling; rubber gasket suitable for use in potable water glued in place on flange face; 304 stainless steel hardware coated to prevent galling or seizing; 304 stainless steel test plug. Sized to fit 6" Class 200 A.C. rough barrel pipe. Nominal 4" branch size.
(Romac SST Ductile Plus) (Powerseal 3490) (Ford Fast) (Smith-Blair 663)

304. FE0206D 6"x6" Tapping Sleeve

Tapping sleeve shall conform to the following specifications; 304 stainless steel liner; rubber gasket suitable for use in potable water, with grid pattern glued in place to liner; 304 stainless steel armor plates bonded to liner; stainless steel flange, with 150 lb. Drilling; rubber gasket suitable for use in potable water glued in place on flange face; 304 stainless steel hardware coated to prevent galling or seizing; 304 stainless steel test plug. Sized to fit 6" Class 200 A.C. rough barrel pipe. Nominal 6" branch size.
(Romac SST Ductile Plus) (Powerseal 3490) (Ford Fast) (Smith-Blair 663)

305. FE0208C 8"x4" Tapping Sleeve

Tapping sleeve shall conform to the following specifications; 304 stainless steel liner; rubber gasket suitable for use in potable water, with grid pattern glued in place to liner; 304 stainless steel armor plates bonded to liner; stainless steel flange, with 150 lb. Drilling; rubber gasket suitable for use in potable water glued in place on flange face; 304 stainless steel hardware coated to prevent galling or seizing; 304 stainless steel test plug. Sized to fit 8" Class 200 A.C. rough barrel pipe. Nominal 4" branch size.
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306. FE0208D

8"x6" Tapping Sleeve

Tapping sleeve shall conform to the following specifications; 304 stainless steel liner; rubber gasket suitable for use in potable water, with grid pattern glued in place to liner; 304 stainless steel armor plates bonded to liner; stainless steel flange, with 150 lb. Drilling; rubber gasket suitable for use in potable water glued in place on flange face; 304 stainless steel hardware coated to prevent galling or seizing; 304 stainless steel test plug. Sized to fit 8" Class 200 A.C. rough barrel pipe. Nominal 6" branch size. (Romac SST Ductile Plus) (Powerseal 3490) (Ford Fast) (Smith-Blair 663)

307. FE0208E

8"x8" Tapping Sleeve

Tapping sleeve shall conform to the following specifications; 304 stainless steel liner; rubber gasket suitable for use in potable water, with grid pattern glued in place to liner; 304 stainless steel armor plates bonded to liner; stainless steel flange, with 150 lb. Drilling; rubber gasket suitable for use in potable water glued in place on flange face; 304 stainless steel hardware coated to prevent galling or seizing; 304 stainless steel test plug. Sized to fit 8" Class 200 A.C. rough barrel pipe. Nominal 8" branch size. (Romac SST Ductile Plus) (Powerseal 3490) (Ford Fast) (Smith-Blair 663)

308. FE0210C

10"x4" Tapping Sleeve

Tapping sleeve shall conform to the following specifications; 304 stainless steel liner; rubber gasket suitable for use in potable water, with grid pattern glued in place to liner; 304 stainless steel armor plates bonded to liner; stainless steel flange, with 150 lb. Drilling; rubber gasket suitable for use in potable water glued in place on flange face; 304 stainless steel hardware coated to prevent galling or seizing; 304 stainless steel test plug. Sized to fit 10" Class 200 A.C. rough barrel pipe. Nominal 4" branch size. (Romac SST Ductile Plus) (Powerseal 3490) (Ford Fast) (Smith-Blair 663)

309. FE0210D

10"x6" Tapping Sleeve

Tapping sleeve shall conform to the following specifications; 304 stainless steel liner; rubber gasket suitable for use in potable water, with grid pattern glued in place to liner; 304 stainless steel armor plates bonded to liner; stainless steel flange, with 150 lb. Drilling; rubber gasket suitable for use in potable water glued in place on flange face; 304 stainless steel hardware coated to prevent galling or seizing; 304 stainless steel test plug. Sized to fit 10" Class 200 A.C. rough barrel pipe. Nominal 6" branch size. (Romac SST Ductile Plus) (Powerseal 3490) (Ford Fast) (Smith-Blair 663)

310. FE0210E

10"x8" Tapping Sleeve

Tapping sleeve shall conform to the following specifications; 304 stainless steel liner; rubber gasket suitable for use in potable water, with grid pattern glued in place to liner; 304 stainless steel armor plates bonded to liner; stainless steel flange, with 150 lb. Drilling; rubber gasket suitable for use in potable water glued in place on flange face; 304 stainless steel hardware coated to prevent galling or seizing; 304 stainless steel test plug. Sized to fit 10" Class 200 A.C. rough barrel pipe. Nominal 8" branch size. (Romac SST Ductile Plus) (Powerseal 3490) (Ford Fast) (Smith-Blair 663)

311. FE0210F

10"x10" Tapping Sleeve

Tapping sleeve shall conform to the following specifications; 304 stainless steel liner; rubber gasket suitable for use in potable water, with grid pattern glued in place to liner; 304 stainless steel armor plates bonded to liner; stainless steel flange, with 150 lb. Drilling; rubber gasket suitable for use in potable water glued in place on flange face; 304 stainless steel hardware coated to prevent galling or seizing; 304 stainless steel test plug. Sized to fit 10" Class 200 A.C. rough barrel pipe. Nominal 10" branch size. (Romac SST Ductile Plus) (Powerseal 3490) (Ford Fast) (Smith-Blair 663)

312. FE0212C

12"x4" Tapping Sleeve

Tapping sleeve shall conform to the following specifications; 304 stainless steel liner; rubber gasket suitable for use in potable water, with grid pattern glued in place to liner; 304 stainless steel armor plates bonded to liner; stainless steel flange, with 150 lb. Drilling; rubber gasket suitable for use in potable water glued in place on flange face; 304 stainless steel hardware coated to prevent galling or seizing; 304 stainless steel test plug. Sized to fit 12" Class 200 A.C. rough barrel pipe. Nominal 4" branch size. (Romac SST Ductile Plus) (Powerseal 3490) (Ford Fast) (Smith-Blair 663)



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313. FE0212D

12"x6" Tapping Sleeve

Tapping sleeve shall conform to the following specifications; 304 stainless steel liner; rubber gasket suitable for use in potable water, with grid pattern glued in place to liner; 304 stainless steel armor plates bonded to liner; stainless steel flange, with 150 lb. Drilling; rubber gasket suitable for use in potable water glued in place on flange face; 304 stainless steel hardware coated to prevent galling or seizing; 304 stainless steel test plug. Sized to fit 12" Class 200 A.C. rough barrel pipe. Nominal 6" branch size. (Romac SST Ductile Plus) (Powerseal 3490) (Ford Fast) (Smith-Blair 663)

314. FE0212E

12"x8" Tapping Sleeve

Tapping sleeve shall conform to the following specifications; 304 stainless steel liner; rubber gasket suitable for use in potable water, with grid pattern glued in place to liner; 304 stainless steel armor plates bonded to liner; stainless steel flange, with 150 lb. Drilling; rubber gasket suitable for use in potable water glued in place on flange face; 304 stainless steel hardware coated to prevent galling or seizing; 304 stainless steel test plug. Sized to fit 12" Class 200 A.C. rough barrel pipe. Nominal 8" branch size. (Romac SST Ductile Plus) (Powerseal 3490) (Ford Fast) (Smith-Blair 663)

315. FE0212G

12"x12" Tapping Sleeve

Tapping sleeve shall conform to the following specifications; 304 stainless steel liner; rubber gasket suitable for use in potable water, with grid pattern glued in place to liner; 304 stainless steel armor plates bonded to liner; stainless steel flange, with 150 lb. Drilling; rubber gasket suitable for use in potable water glued in place on flange face; 304 stainless steel hardware coated to prevent galling or seizing; 304 stainless steel test plug. Sized to fit 12" Class 200 A.C. rough barrel pipe. Nominal 12" branch size. (Romac SST Ductile Plus) (Powerseal 3490) (Ford Fast) (Smith-Blair 663)

GATE VALVES

RESILIENT SEATED GATE VALVE

316. BB0104A

4" Gate Valve

Gate valve shall conform to the following specifications; full pot valve for size stated; resilient seated wedge type; non-rising stem; fusion bonded epoxy coated inside and outside, eight (8) mil minimum conforming to AWWA C550; cast iron or ductile iron body, bonnet and gate; bronze stem; bronze stem nut; gate, including stem hole, fully encapsulated in rubber; open left; two o-ring seals above the stem thrust collar; thrust washer or bearing above stem collar; two inch square stem operating nut; corrosion resistant plated steel hardware; gate shall engage body in a tongue and groove manner; gate shall have a dual seal to valve body and have zero leakage with at least 200 psi water pressure from either direction; end connections shall be mechanical joint by mechanical joint. Valve size shall be nominal 4". Valve shall conform to AWWA C509, C515 latest revision. (U.S. Pipe) (American Darling) (Mueller) (EAST JORDON) (M&H)

317. BB0106A

6" Gate Valve

Gate valve shall conform to the following specifications; full pot valve for size stated; resilient seated wedge type; non-rising stem; fusion bonded epoxy coated inside and outside, eight (8) mil minimum conforming to AWWA C550; cast iron or ductile iron body, bonnet and gate; bronze stem; bronze stem nut; gate, including stem hole, fully encapsulated in rubber; open left; two o-ring seals above the stem thrust collar; thrust washer or bearing above stem collar; two inch square stem operating nut; corrosion resistant plated steel hardware; gate shall engage body in a tongue and groove manner; gate shall have a dual seal to valve body and have zero leakage with at least 200 psi water pressure from either direction; end connections shall be mechanical joint by mechanical joint. Valve size shall be nominal 6". Valve shall conform to AWWA C509, C515 latest revision. (U.S. Pipe) (American Darling) (Mueller) (EAST JORDON) (M&H)

318. BB0108A

8" Gate Valve

Gate valve shall conform to the following specifications; full pot valve for size stated; resilient seated wedge type; non-rising stem; fusion bonded epoxy coated inside and outside, eight (8) mil minimum



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conforming to AWWA C550; cast iron or ductile iron body, bonnet and gate; bronze stem; bronze stem nut; gate, including stem hole, fully encapsulated in rubber; open left; two o-ring seals above the stem thrust collar; thrust washer or bearing above stem collar; two inch square stem operating nut; corrosion resistant plated steel hardware; gate shall engage body in a tongue and groove manner; gate shall have a dual seal to valve body and have zero leakage with at least 200 psi water pressure from either direction; end connections shall be mechanical joint by mechanical joint. Valve size shall be nominal 8". Valve shall conform to AWWA C509, C515 latest revision. (U.S. Pipe) (American Darling) (Mueller) (EAST JORDON) (M&H)

319. BB0110A

10" Gate Valve

Gate valve shall conform to the following specifications; full pot valve for size stated; resilient seated wedge type; non-rising stem; fusion bonded epoxy coated inside and outside, eight (8) mil minimum conforming to AWWA C550; cast iron or ductile iron body, bonnet and gate; bronze stem; bronze stem nut; gate, including stem hole, fully encapsulated in rubber; open left; two o-ring seals above the stem thrust collar; thrust washer or bearing above stem collar; two inch square stem operating nut; corrosion resistant plated steel hardware; gate shall engage body in a tongue and groove manner; gate shall have a dual seal to valve body and have zero leakage with at least 200 psi water pressure from either direction; end connections shall be mechanical joint by mechanical joint. Valve size shall be nominal 10". Valve shall conform to AWWA C509, C515 latest revision. (U.S. Pipe) (American Darling) (Mueller) (EAST JORDON) (M&H)

320. BB0112A

12" Gate Valve

Gate valve shall conform to the following specifications; full pot valve for size stated; resilient seated wedge type; non-rising stem; fusion bonded epoxy coated inside and outside, eight (8) mil minimum conforming to AWWA C550; cast iron or ductile iron body, bonnet and gate; bronze stem; bronze stem nut; gate, including stem hole, fully encapsulated in rubber; open left; two o-ring seals above the stem thrust collar; thrust washer or bearing above stem collar; two inch square stem operating nut; corrosion resistant plated steel hardware; gate shall engage body in a tongue and groove manner; gate shall have a dual seal to valve body and have zero leakage with at least 200 psi water pressure from either direction; end connections shall be mechanical joint by mechanical joint. Valve size shall be nominal 12". Valve shall conform to AWWA C509, C515 latest revision. (U.S. Pipe) (American Darling) (Mueller) (EAST JORDON) (M&H)

321. BB0116A

16" Gate Valve

Gate valve shall conform to the following specifications; full pot valve for size stated; resilient seated wedge type; non-rising stem; fusion bonded epoxy coated inside and outside, eight (8) mil minimum conforming to AWWA C550; cast iron or ductile iron body, bonnet and gate; bronze stem; bronze stem nut; gate, including stem hole, fully encapsulated in rubber; open left; two o-ring seals above the stem thrust collar; thrust washer or bearing above stem collar; two inch square stem operating nut; corrosion resistant plated steel hardware; gate shall engage body in a tongue and groove manner; gate shall have a dual seal to valve body and have zero leakage with at least 200 psi water pressure from either direction; end connections shall be mechanical joint by mechanical joint. Valve size shall be nominal 16". Valve shall conform to AWWA C509, C515 latest revision. (U.S. Pipe) (American Darling) (Mueller) (EAST JORDON) (M&H)

322. BB0204A

4" Gate Valve

Gate valve shall conform to the following specifications; full pot valve for size stated; resilient seated wedge type; non-rising stem; fusion bonded epoxy coated inside and outside, eight (8) mil minimum conforming to AWWA C550; cast iron or ductile iron body, bonnet and gate; bronze stem; bronze stem nut; gate, including stem hole, fully encapsulated in rubber; open left; two o-ring seals above the stem thrust collar; thrust washer or bearing above stem collar; two inch square stem operating nut; corrosion resistant plated steel hardware; gate shall engage body in a tongue and groove manner; gate shall have a dual seal to valve body and have zero leakage with at least 200 psi water pressure from either direction; end connections shall be flange joint by mechanical joint. Valve size shall be nominal 4". Valve shall



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conform to AWWA C509, C515 latest revision. (U.S. Pipe) (American Darling) (Mueller) (East Jordon) (M&H)

323. BB0204B 4" Gate Valve

Gate valve shall conform to the following specifications; full pot valve for size stated; resilient seated wedge type; non-rising stem; fusion bonded epoxy coated inside and outside, eight (8) mil minimum conforming to AWWA C550; cast iron or ductile iron body, bonnet and gate; bronze stem; bronze stem nut; gate, including stem hole, fully encapsulated in rubber; open left; two o-ring seals above the stem thrust collar; thrust washer or bearing above stem collar; two inch square stem operating nut; corrosion resistant plated steel hardware; gate shall engage body in a tongue and groove manner; gate shall have a dual seal to valve body and have zero leakage with at least 200 psi water pressure from either direction; end connections shall be flange joint by flange joint. Valve size shall be nominal 4". Valve shall conform to AWWA C509, C515 latest revision.

(U.S. Pipe) (American Darling) (Mueller) (East Jordon) (M&H)

324. BB0206A 6" Gate Valve

Gate valve shall conform to the following specifications; full pot valve for size stated; resilient seated wedge type; non-rising stem; fusion bonded epoxy coated inside and outside, eight (8) mil minimum conforming to AWWA C550; cast iron or ductile iron body, bonnet and gate; bronze stem; bronze stem nut; gate, including stem hole, fully encapsulated in rubber; open left; two o-ring seals above the stem thrust collar; thrust washer or bearing above stem collar; two inch square stem operating nut; corrosion resistant plated steel hardware; gate shall engage body in a tongue and groove manner; gate shall have a dual seal to valve body and have zero leakage with at least 200 psi water pressure from either direction; end connections shall be flange joint by mechanical joint. Valve size shall be nominal 6". Valve shall conform to AWWA C509, C515 latest revision. (U.S. Pipe) (American Darling) (Mueller) (East Jordon) (M&H)

325. BB0206B 6" Gate Valve

Gate valve shall conform to the following specifications; full pot valve for size stated; resilient seated wedge type; non-rising stem; fusion bonded epoxy coated inside and outside, eight (8) mil minimum conforming to AWWA C550; cast iron or ductile iron body, bonnet and gate; bronze stem; bronze stem nut; gate, including stem hole, fully encapsulated in rubber; open left; two o-ring seals above the stem thrust collar; thrust washer or bearing above stem collar; two inch square stem operating nut; corrosion resistant plated steel hardware; gate shall engage body in a tongue and groove manner; gate shall have a dual seal to valve body and have zero leakage with at least 200 psi water pressure from either direction; end connections shall be flange joint by flange joint. Valve size shall be nominal 6". Valve shall conform to AWWA C509, C515 latest revision.

(U.S. Pipe) (American Darling) (Mueller) (East Jordon) (M&H)

326. BB0208A 8" Gate Valve

Gate valve shall conform to the following specifications; full pot valve for size stated; resilient seated wedge type; non-rising stem; fusion bonded epoxy coated inside and outside, eight (8) mil minimum conforming to AWWA C550; cast iron or ductile iron body, bonnet and gate; bronze stem; bronze stem nut; gate, including stem hole, fully encapsulated in rubber; open left; two o-ring seals above the stem thrust collar; thrust washer or bearing above stem collar; two inch square stem operating nut; corrosion resistant plated steel hardware; gate shall engage body in a tongue and groove manner; gate shall have a dual seal to valve body and have zero leakage with at least 200 psi water pressure from either direction; end connections shall be flange joint by mechanical joint. Valve size shall be nominal 8". Valve shall conform to AWWA C509, C515 latest revision. (U.S. Pipe) (American Darling) (Mueller) (EAST JORDON) (M&H)

327. BB0208B 8" Gate Valve

Gate valve shall conform to the following specifications; full pot valve for size stated; resilient seated wedge type; non-rising stem; fusion bonded epoxy coated inside and outside, eight (8) mil minimum conforming to AWWA C550; cast iron or ductile iron body, bonnet and gate; bronze stem; bronze stem nut; gate, including stem hole, fully encapsulated in rubber; open left; two o-ring seals above the stem



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thrust collar; thrust washer or bearing above stem collar; two inch square stem operating nut; corrosion resistant plated steel hardware; gate shall engage body in a tongue and groove manner; gate shall have a dual seal to valve body and have zero leakage with at least 200 psi water pressure from either direction; end connections shall be flange joint by flange joint. Valve size shall be nominal 4". Valve shall conform to AWWA C509, C515 latest revision.

(U.S. Pipe) (American Darling) (Mueller) (East Jordon) (M&H)

328. BB0210A

10" Gate Valve

Gate valve shall conform to the following specifications; full pot valve for size stated; resilient seated wedge type; non-rising stem; fusion bonded epoxy coated inside and outside, eight (8) mil minimum conforming to AWWA C550; cast iron or ductile iron body, bonnet and gate; bronze stem; bronze stem nut; gate, including stem hole, fully encapsulated in rubber; open left; two o-ring seals above the stem thrust collar; thrust washer or bearing above stem collar; two inch square stem operating nut; corrosion resistant plated steel hardware; gate shall engage body in a tongue and groove manner; gate shall have a dual seal to valve body and have zero leakage with at least 200 psi water pressure from either direction; end connections shall be flange joint by mechanical joint. Valve size shall be nominal 10". Valve shall conform to AWWA C509, C515 latest revision. (U.S. Pipe) (American Darling) (Mueller) (East Jordon) (M&H)

329. BB0212A

12" Gate Valve

Gate valve shall conform to the following specifications; full pot valve for size stated; resilient seated wedge type; non-rising stem; fusion bonded epoxy coated inside and outside, eight (8) mil minimum conforming to AWWA C550; cast iron or ductile iron body, bonnet and gate; bronze stem; bronze stem nut; gate, including stem hole, fully encapsulated in rubber; open left; two o-ring seals above the stem thrust collar; thrust washer or bearing above stem collar; two inch square stem operating nut; corrosion resistant plated steel hardware; gate shall engage body in a tongue and groove manner; gate shall have a dual seal to valve body and have zero leakage with at least 200 psi water pressure from either direction; end connections shall be flange joint by mechanical joint. Valve size shall be nominal 12". Valve shall conform to AWWA C509, C515 latest revision. (U.S. Pipe) (American Darling) (Mueller) (East Jordon) (M&H)

330. BB0212B

12" Gate Valve

Gate valve shall conform to the following specifications; full pot valve for size stated; resilient seated wedge type; non-rising stem; fusion bonded epoxy coated inside and outside, eight (8) mil minimum conforming to AWWA C550; cast iron or ductile iron body, bonnet and gate; bronze stem; bronze stem nut; gate, including stem hole, fully encapsulated in rubber; open left; two o-ring seals above the stem thrust collar; thrust washer or bearing above stem collar; two inch square stem operating nut; corrosion resistant plated steel hardware; gate shall engage body in a tongue and groove manner; gate shall have a dual seal to valve body and have zero leakage with at least 200 psi water pressure from either direction; end connections shall be flange joint by flange joint. Valve size shall be nominal 12". Valve shall conform to AWWA C509, C515 latest revision.

(U.S. Pipe) (American Darling) (Mueller) (East Jordon) (M&H)

331. BB0216B

16" Flanged Gate Valve

Gate valve shall conform to the following specifications; full pot valve for size stated; resilient seated wedge type; non-rising stem; fusion bonded epoxy coated inside and outside, eight (8) mil minimum conforming to AWWA C550; cast iron or ductile iron body, bonnet and gate; bronze stem; bronze stem nut; gate, including stem thrust collar; thrust washer or bearing above stem collar; two inch square stem operating nut; corrosion resistant plated steel hardware; gate shall engage body in a tongue and groove manner; gate shall have a dual seal to valve body and have zero leakage with at least 200 psi water pressure from either direction; end connections shall be flange joint by flange joint. Valve size shall be nominal 16". Valve shall conform to AWWA C509, C515 latest revision. (U.S. Pipe)(American Darling)(Mueller) (East Jordon) (M&H)



MEGALUG

Megalug Mechanical Joint Restraint for C-900 Pipe & IPS PVC pipe (EBAA Iron) (Ford Uni-Flange) (Kit's)

332. **GL1704O**
Size 4"

333. **GL1706O**
Size 6"

334. **GL1708O**
Size 8"

335. **GL1710O**
Size 10"

336. **GL1712O**
Size 12"

337. **GL1714O**
Size 14"

338. **GL1716O**
Size 16"

339. **GL1718O**
Size 18"

340. **GL1720O**
Size 20"

341. **GL1724O**
Size 24"

342. **GL1730O**
Size 30"

343. **GL1736O**
Size 36"

344. **GL1742O**
Size 42"

345. **GL1748O**
Size 48"

MEGALUG

Megaflange- Flange Adapter Series 2100, (EBAA Iron) --ONLY

346. **GL1804O**
Size 4"

347. **GL1806O**
Size 6"

348. **GL1808O**
Size 8"

349. **GL1810O**
Size 10"

350. **GL1812O**
Size 12"

351. **GL1814O**
Size 14"

352. **GL1816O**
Size 16"

353. **GL1818O**
Size 18"

354. **GL1820O**
Size 20"

355. **GL1824O**
Size 24"

356. **GL1830O**
Size 30"

357. **GL1836O**
Size 36"



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4. NO BID REPLY FORM

For WU-03-18 / Water Distribution Warehouse Inventory

If for any reason, you are not submitting a bid/proposal, please check one or more reasons below and return the form to us either by mail or by email to sapurch@cosatx.us in order to remain in our database for these types of products or services.

By providing us this information, we hope to improve future request packages that will elicit your participation.

===== # # # =====
PLEASE PRINT

We wish to: ☐ **Remain On**
☐ **Be Deleted From** the list of vendors for the City of San Angelo.

A. We hereby submit a "No Bid" because:

- ☐ 1. We are not interested in selling through the bid process.
- ☐ 2. We are unable to prepare the bid form in time to meet the due date.
- ☐ 3. We do not wish to bid under the terms and conditions of the Request for Bid/Proposal. OBJECTIONS: _____

- ☐ 4. We do not feel we can be competitive.
- ☐ 5. We cannot submit a bid because of the marketing or franchising policies of the manufacturing company.
- ☐ 6. We do not wish to sell to the City of San Angelo. OBJECTIONS: _____

- ☐ 7. We do not sell the items or provide the services requested.
- ☐ 8. Other: _____

Firm _____

Signed _____

Date _____

Thank you for your assistance!



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5. BID FORMS

Submit: One (1) unbound original (binder clips acceptable, three (3) bound copies (binders, staples or binder clips are acceptable) and one (1) copy in PDF format on USB Flash Drive of all required RFP forms.

Please submit all forms in the following order:

- ☐ Bid Sheet – Submit using WU-03-18 Warehouse Inventory Inventory.xls digital bid sheet in Excel; print one copy for submission, on USB include one excel version and one PDF with all other required documents.
- ☐ Contact Information Form (IRS Form W-9)
- ☐ Addenda Acknowledgment Form
- ☐ Disclosure of Certain Relationships Form
- ☐ Debarment and Suspension Certification
- ☐ Local Preference Consideration Application & Economic Impact Details
- ☐ Verification Relating to Prohibited Contracts – Israel
- ☐ Survey

*At council award, one notarized, original of the Texas Ethics Commission Interested Parties Disclosure Form 1295 completed online at https://www.ethics.state.tx.us/whatsnew/elf_info_form1295.htm will be required.

In submitting its bid, vendor certifies that it has not lobbied the City or its officials, managers, employees, consultants, or contractors in such a manner as to influence or to attempt to influence the bidding process. In the event it reasonably appears that the vendor influenced or attempted to influence the bidding process, the City may, in its discretion, reject the bid.

Submit all forms beyond this point.



Bid Sheet

Please complete attached excel file with item descriptions and quantities.

- A. Refer to Instructions to Vendors before completing Bid Sheet and quote your best price F.O.B. destination on each item.
- B. Delivery Date should be the number of Calendar Days for delivery promised for each item from date of PO receipt/order placement.
- C. Print one copy for submission, on USB include one excel version and one PDF with all other required documents.
- D. Quantities listed are based on approximate twelve (12) month usage.
- E. The brand names listed on the Bid exemplify approved specifications used by the City. Any deviations/alternatives from the brand names specified will require prior approval from the City's Water Utilities Department as meeting or exceeding the product specification standards signified by brands listed. Approval of alternative product must be obtained five (5) working days prior to bid opening. Alternative bids which did not receive prior approval will be considered non-responsive. **Route all requests for specification approval through the Purchasing Division at sapurch@cosatx.us.**
- F. "All or none" bids are not acceptable.
- G. All Mechanical Joint Fittings shall be bid with Ebba & Ford restraint accessories & epoxy coated.
- H. All Flanged fittings shall be bid with bolt and gasket accessories kits.
- I. All Gate Valves and Fire Hydrants shall be bid with Ebba & Ford restraint accessories.
- J. All Brass Saddles shall be Domestic Only.
- K. All Brass Fittings shall be no Lead and Domestic Only.
- L. Liquidated Damages - Time is of the essence in the delivery of this product. If materials are not delivered by the promised delivery date, the City may elect to charge a 1.5% late charge for each item that is 30 days past the promised delivery date. All orders shall be shipped complete.

Note: Should there be any differences between the unit price and the extended pricing calculations, the unit price will prevail.

- ☐ Does vendor agree to allow piggy-back procurements? Yes_____ No_____
(Should other governmental entities decide to participate in this contract, the vendor agrees that all terms, conditions, specifications and pricing would apply.)
- ☐ Are these prices based on a purchasing cooperative contract? Yes_____ No_____
 - ☐ If yes, name of cooperative:_____ Contract No: _____
(Texas DIR, TXMAS, Buyboard, etc.)
- ☐ Payment Terms/Discounts (if any): _____



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Authorized Signature/Contact Information

Vendor Name: _____

Authorized Signer: _____

Print Name: _____

Date: _____

Title: _____

Email: _____

Primary Contact: _____

Title: _____

Email: _____

Telephone: _____

Fax: _____

Mailing Address: _____

City, State, Zip: _____

Physical Address: _____

(Cannot be a PO Box)

City, State, Zip: _____

Attach IRS W-9

Bids which are not signed and dated or bids which do not comply with all of bid requirements herein, may be considered non-responsive and may be rejected.

The signee agrees, if this bid is accepted, to furnish any and all goods or services upon which prices are offered, at the price and upon the terms and conditions contained in the Invitation for Bid, Conditions of Bidding, Terms of Contract, and Specifications and all other items made a part of the accepted contract.

The signee affirms that they are duly authorized to execute the contract, that this company, corporation, firm, partnership or individual has not prepared this bid in collusion with any other vendor, and that the contents of this bid as to prices and terms or conditions have not been communicated by the signee nor by any employee or agent to any other vendor or to any other person(s) engaged in this type of business prior to the official opening of this bid. And further, that neither the vendor nor their employees nor agents have been for the past six (6) months directly nor indirectly concerned in any pool or agreement or combination to control the price of goods or services, nor to influence any person to bid or not to bid thereon.



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Addenda Acknowledgement

Receipt is hereby acknowledged of the following addenda to the Contract documents.

Addendum No. 1 dated _____	Received _____
Addendum No. 2 dated _____	Received _____
Addendum No. 3 dated _____	Received _____

Please Print

Company Name

Signature

Printed Name

Title

Address

City, State Zip Code



CITY OF SAN ANGELO
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Disclosure of Certain Relationships

NOTICE TO VENDORS

Effective January 1, 2006, Chapter 176 of the Texas Local Government Code requires that any vendor or person considering doing business with a local governmental entity make certain disclosures concerning any affiliation or business relationship that might cause a conflict of interest with the local governmental entity. The provisions of Chapter 176 and the Form CIQ questionnaire that you must complete, if applicable, to comply with this new law, are available and explained in more detail at the Texas Ethics Commission website at https://www.ethics.state.tx.us/filinginfo/conflict_forms.htm.

A current list of City of San Angelo and City of San Angelo Development Corporation officers is available in the office of the City of San Angelo City Clerk, Room 201 of City Hall or on the City's website at <http://cosatx.us>. If you are considering doing business with the City of San Angelo or the City of San Angelo Development Corporation and have an affiliation or business relationship that requires you to submit a completed Form CIQ, it must be filed with the records administrator (City Clerk) of the City of San Angelo not later than the 7th business day after the date you become aware of facts that require the form to be filed. See Section 176.006, Texas Local Government Code. It is a Class C misdemeanor to violate this provision.

By submitting a response to a City of San Angelo or City of San Angelo Development Corporation Request for Bid proposals, Request for Bids, or Request for Qualifications or by conducting business with either of those two entities, you are representing that you are in compliance with the requirements of Chapter 176 of the Texas Local Government Code.

Candice Blake
Interim Purchasing Manager

LOCAL GOVERNMENT OFFICERS OF THE CITY OF SAN ANGELO **As defined by Chapter 176 of the Texas Local Government Code** **(Revised 07/18/17)**

For purposes of completion of the required Conflict of Interest Questionnaire for the City of San Angelo (required by all buyers who submit bids/proposals), Local Government Officers are:

City of San Angelo City Council:

Mayor: Brenda Gunter, Mayor
Councilmembers: Tommy Hiebert, SMD 1
Tom Thompson, SMD 2
Harry Thomas, SMD 3
Lucy Gonzales, SMD 4
Lane Carter, SMD5 (Mayor Pro Tem)
Billie DeWitt, SMD 6
City Manager: Daniel Valenzuela

Development Corporation officers are:

Edward Carrasco, President
Juan Flores, First Vice President
Todd R. Kolls, Second Vice President
Scott Tankersley, Director
David Cummings, Director
John Edward Bariou, Jr., Director
Bill Dendle, Director
Executive Director: Roland Peña



CONFLICT OF INTEREST QUESTIONNAIRE

For vendor doing business with local governmental entity

FORM CIQ

This questionnaire reflects changes made to the law by H.B. 23, 84th Leg., Regular Session.

This questionnaire is being filed in accordance with Chapter 176, Local Government Code, by a vendor who has a business relationship as defined by Section 176.001(1-a) with a local governmental entity and the vendor meets requirements under Section 176.006(a).

By law this questionnaire must be filed with the records administrator of the local governmental entity not later than the 7th business day after the date the vendor becomes aware of facts that require the statement to be filed. See Section 176.006(a-1), Local Government Code.

A vendor commits an offense if the vendor knowingly violates Section 176.006, Local Government Code. An offense under this section is a misdemeanor.

OFFICE USE ONLY

Date Received

1 Name of vendor who has a business relationship with local governmental entity.

2 ☐ **Check this box if you are filing an update to a previously filed questionnaire.** (The law requires that you file an updated completed questionnaire with the appropriate filing authority not later than the 7th business day after the date on which you became aware that the originally filed questionnaire was incomplete or inaccurate.)

3 Name of local government officer about whom the information is being disclosed.

Name of Officer

4 Describe each employment or other business relationship with the local government officer, or a family member of the officer, as described by Section 176.003(a)(2)(A). Also describe any family relationship with the local government officer. Complete subparts A and B for each employment or business relationship described. Attach additional pages to this Form CIQ as necessary.

A. Is the local government officer or a family member of the officer receiving or likely to receive taxable income, other than investment income, from the vendor?

☐ Yes

☐ No

B. Is the vendor receiving or likely to receive taxable income, other than investment income, from or at the direction of the local government officer or a family member of the officer AND the taxable income is not received from the local governmental entity?

☐ Yes

☐ No

5 Describe each employment or business relationship that the vendor named in Section 1 maintains with a corporation or other business entity with respect to which the local government officer serves as an officer or director, or holds an ownership interest of one percent or more.

6 ☐ Check this box if the vendor has given the local government officer or a family member of the officer one or more gifts as described in Section 176.003(a)(2)(B), excluding gifts described in Section 176.003(a-1).

7 _____
Signature of vendor doing business with the governmental entity

Date



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CONFLICT OF INTEREST QUESTIONNAIRE **For vendor doing business with local governmental entity**

A complete copy of Chapter 176 of the Local Government Code may be found at <http://www.statutes.legis.state.tx.us/Docs/LG/htm/LG.176.htm>. For easy reference, below are some of the sections cited on this form.

Local Government Code § 176.001(1-a): "Business relationship" means a connection between two or more parties based on commercial activity of one of the parties. The term does not include a connection based on:

- (A) a transaction that is subject to rate or fee regulation by a federal, state, or local governmental entity or an agency of a federal, state, or local governmental entity;
- (B) a transaction conducted at a price and subject to terms available to the public; or
- (C) a purchase or lease of goods or services from a person that is chartered by a state or federal agency and that is subject to regular examination by, and reporting to, that agency.

Local Government Code § 176.003(a)(2)(A) and (B):

(a) A local government officer shall file a conflicts disclosure statement with respect to a vendor if:

(2) the vendor:

(A) has an employment or other business relationship with the local government officer or a family member of the officer that results in the officer or family member receiving taxable income, other than investment income, that exceeds \$2,500 during the 12-month period preceding the date that the officer becomes aware that

(i) a contract between the local governmental entity and vendor has been executed;

or

(ii) the local governmental entity is considering entering into a contract with the vendor;

(B) has given to the local government officer or a family member of the officer one or more gifts that have an aggregate value of more than \$100 in the 12-month period preceding the date the officer becomes aware that:

(i) a contract between the local governmental entity and vendor has been executed; or

(ii) the local governmental entity is considering entering into a contract with the vendor.

Local Government Code § 176.006(a) and (a-1)

(a) A vendor shall file a completed conflict of interest questionnaire if the vendor has a business relationship with a local governmental entity and:

(1) has an employment or other business relationship with a local government officer of that local governmental entity, or a family member of the officer, described by Section 176.003(a)(2)(A);

(2) has given a local government officer of that local governmental entity, or a family member of the officer, one or more gifts with the aggregate value specified by Section 176.003(a)(2)(B), excluding any gift described by Section 176.003(a-1); or

(3) has a family relationship with a local government officer of that local governmental entity.

(a-1) The completed conflict of interest questionnaire must be filed with the appropriate records administrator not later than the seventh business day after the later of:

(1) the date that the vendor:

(A) begins discussions or negotiations to enter into a contract with the local governmental entity; or

(B) submits to the local governmental entity an application, response to a request for proposals or bids, correspondence, or another writing related to a potential contract with the local governmental entity; or

(2) the date the vendor becomes aware:

(A) of an employment or other business relationship with a local government officer, or a family member of the officer, described by Subsection (a);

(B) that the vendor has given one or more gifts described by Subsection (a); or

(C) of a family relationship with a local government officer.



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Debarment and Suspension Certification

- (1) The prospective primary vendor certifies to the best of its knowledge and belief that it and its principals:
 - (a) Are not presently debarred, suspended, proposed for disbarment, declared ineligible, or voluntarily excluded from covered transactions by any Federal department or agency;
 - (b) Have not within a three-year period preceding this application been convicted of or had a civil judgment rendered against them for commission of fraud or a criminal offense in connection with obtaining, attempting to obtain, or performing a public (Federal, State, or local) transaction or contract under a public transaction; violation of Federal or State antitrust statutes or commission of embezzlement, theft, forgery, bribery, falsification or destruction of records, making false statements, or receiving stolen property;
 - (c) Are not presently indicted for or otherwise criminally or civilly charged by a governmental entity (Federal, State, or local) with commission of any of the offenses enumerated in paragraph (1)(b) of this certification; and
 - (d) Have not within a three-year period preceding this application had one or more public transactions (Federal, State, or local) terminated for cause or default.
- (2) Where the prospective primary vendor is unable to certify to any of the statements in this certification, such prospective primary vendor shall attach an explanation to this bid proposal.

Business Name _____

Date

By: _____
Name and Title of Authorized Representative

Signature of Authorized Representative



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Debarment and Suspension Certification

INSTRUCTIONS

1. By signing and submitting this proposal, the prospective vendor is providing the certification set out below.
2. The inability of a person to provide the certification required below will not necessarily result in denial of participation in this covered transaction. The prospective vendor shall submit an explanation of why it cannot provide the certification set out below. The certification or explanation will be considered in connection with the determination whether to enter into this transaction. However, failure of the prospective vendors to furnish a certification or an explanation shall disqualify such person from participation in this transaction.
3. The certification in this clause is a material representation of fact upon which reliance was placed when the City of San Angelo determined to enter into this transaction. If it is later determined that the prospective vendor knowingly rendered an erroneous certification, in addition to other remedies available, the City of San Angelo may terminate this transaction for cause.
4. The prospective vendor shall provide immediate written notice to the City of San Angelo to which this proposal is submitted if at any time the prospective vendor learns that its certification was erroneous when submitted or has become erroneous because of changed circumstances.
5. The terms "covered transaction," "debarred," "suspended," "ineligible," "lower tier covered transaction," "vendor," "person," "primary covered transaction," "principal," "proposal," and "voluntarily excluded," as used in this clause, have the meanings set out in the Definitions and Coverage sections of the rules implementing Executive Order 12549(13 CFR Part 145). You may contact the City of San Angelo for assistance in obtaining a copy of these regulations.
6. The prospective vendor agrees by submitting this proposal that, should the proposed transaction be entered into, it shall not knowingly enter into any lower tier covered transaction with a person who is debarred, suspended, declared ineligible, or voluntarily excluded from participation in this covered transaction, unless authorized by the City of San Angelo.
7. The prospective vendor further agrees by submitting this proposal that it will include the clause titled "Certification Regarding Debarment and Suspension" provided by the City of San Angelo, without modification, in all lower tier covered transactions and in all solicitations for lower tier covered transactions.
8. A vendor in a covered transaction may rely upon a certification of a prospective vendor in a lower tier covered transaction that it is not debarred, suspended, ineligible, or voluntarily excluded from the covered transaction, unless it knows that the certification is erroneous. A vendor may decide the method and frequency by which it determines the ineligibility of its principals. Each vendor may, but is not required to, check the Non-procurement List.
9. Nothing contained in the foregoing shall be construed to require establishment of a system of records in order to render in good faith the certification required by this clause. The knowledge and information of a vendor is not required to exceed that which is normally possessed by a prudent person in the ordinary course of business dealings.
10. Except for transactions authorized under paragraph 6 of these instructions, if a vendor in a covered transaction knowingly enters into a lower tier covered transaction with a person who is suspended, debarred, ineligible, or voluntarily excluded from participation in this transaction, in addition to other remedies available to the City of San Angelo, the City of San Angelo may terminate this transaction for cause.



CITY OF SAN ANGELO

PURCHASING DIVISION

72 West College Avenue, San Angelo, Texas 76903

Tel: (325) 657-4219

Local Preference Consideration

Section 271.9051 of the Texas Local Government Code "CONSIDERATION OF LOCATION OF RESPONDENTS PRINCIPAL PLACE OF BUSINESS":

In accordance with Section 271.9051 of the Texas Local Government Code, if a local government receives one or more competitive sealed bids from a bidder whose principal place of business is in the municipality and whose bid is within five (5%) percent of the lowest bid price received from a bidder who is not a resident of the municipality, on contracts less than \$500,000 and three percent (3%) on contracts over \$500,000.00 the municipality may enter into a contract with (a) the lowest bidder or (b) the bidder whose principal place of business is in the municipality if the governing body of the local government determines, in writing, that the local bidder offers the local government the best combination of contract price and additional economic development opportunities for the local government created by the contract award, including the employment of residents of the local government and increased tax revenues to the local government.

Local Preference Consideration DOES NOT apply to Construction Projects over \$100,000 or Telecommunication and Information Technology Bids/Purchases.

If you DO NOT have your principal place of business located within the City of San Angelo city limits – STOP – do not fill out this form.

This "Application for Local Preference Consideration" does *not* mean that the City of San Angelo is limiting responses to this request for bids/proposals to only those businesses located within the city limits. All bids/proposals are welcome.

Respondents who wish to qualify under the local preferences law must have their principal place of business located within the San Angelo city limits.

If your principal place of business is within the San Angelo city limits and you want to apply for local preference consideration, then you must:

1. Complete the **Local Preference Consideration Application**, and
2. ***Describe in writing and attach supporting documentation***, the additional economic development opportunities for the City of San Angelo that will be created if you are awarded this contract. Include the number of City of San Angelo residents that you will employ to complete this contract and the increased tax revenues that will be generated for the City of San Angelo if you are awarded this contract.



CITY OF SAN ANGELO
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Local Preference Consideration Application

Business Name: _____

Physical Address: _____

Mailing Address: _____

City, State, Zip Code: _____

Business Type:

- ☐ Corporation – Indicate state of incorporation _____
- ☐ Partnership – Indicate “general” or “limited” _____
- ☐ Sole proprietorship _____

Attachments: *Describe in writing, and attach supporting documentation*, the additional economic development opportunities for the City of San Angelo that will be created if you are awarded this contract. Include the number of City of San Angelo residents that you will employ to complete this contract and the increased tax revenues that will be generated for the City of San Angelo if you are awarded this contract.

CERTIFICATION: I hereby certify under penalty of perjury that the information which I have provided on this form is true and correct, that I am authorized to sign on behalf of the business set out above and if requested by the city will provide, within 10 days of notice, the necessary documents to substantiate the information provided.

(Please print)

Authorized Representative Signature

Printed Name

Title

Date

(Attach description and documentation of economic impact as outlined on previous page)



CITY OF SAN ANGELO

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Vendor Compliance with Reciprocity On Non-Resident Vendors

Government Code 2252.002 provides that, in order to be awarded a contract as low bidder, a non-resident vendor must bid projects for construction, improvements, supplies or services in Texas at an amount lower than the lowest Texas resident vendor by the same amount that a Texas resident vendor would be required to underbid a non-resident vendor in order to obtain a comparable contract in the state in which the non-resident's principal place of business is located. A non-resident vendor is a contractor whose corporate offices or principal place of business is outside of the state of Texas. This requirement does not apply to a contract involving Federal funds. The appropriate blanks in Section A must be filled out by all out-of-state or non-resident vendors in order for your bid to meet specifications. The failure of out-of-state or non-resident contractors to do so will automatically disqualify that vendor. Resident vendors must check the blank in Section B.

- A. Non-resident Vendors in _____ (give state), our principal place of business, are required to be _____ percent lower than resident vendors by state law. A copy of the statute is attached.

Non-resident Vendors in _____ (give state), our principal place of business, are not required to underbid resident vendors.

- B. Our principal place of business or corporate offices are in the State of Texas: _____.

VENDOR:

(Please print)

Company Name

Signature

Printed Name

Title

Address

City, State Zip Code



CITY OF SAN ANGELO

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Verification Relating to Prohibited Contracts – Israel

City of San Angelo, Texas, RFB WU-03-18

My name is _____, "Declarant";
(First) (Middle) (Last)

My date of birth is _____; and,

My address is _____,
(Street) (City) (State)

_____, and _____.
(Zip Code) (Country)

My position with _____, contracting company, is _____.
(contracting company) (office held)

(1) The foregoing named contracting Company does not now and will not during the term of this contract, have contracts with or provide supplies or services to, an entity or company known to have contracts with or to provide supplies or services to a foreign terroristic organization or with an entity or company identified as providing such on a list prepared and maintained by the Texas Comptroller pursuant to Subchapter "F", Sections 2252.151 et. seq., Chapter 2252 "Contracts with Governmental Entity" of the Texas Government Code; neither is contracting Company identified as an entity providing such supplies or services on said list.

(2) The foregoing named contracting Company does not boycott Israel; and will not boycott Israel during the term of the contract with the City of San Angelo.

I declare under penalty of perjury that the foregoing is true and correct.

Executed in _____ County, State of _____, on the _____ day of
(County)

_____, 20 _____.
(Month)

Declarant



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Survey

How did you hear about this RFP?

- ☐ Newspaper
- ☐ Email
- ☐ Letter
- ☐ City Website
- ☐ Person: _____
- ☐ Other: _____