



City of San Angelo

REQUEST FOR BIDS

RFB WU-04-20 • Water Utilities Department
Water Reclamation Facility • Warehouse Inventory

SUBMITTAL DEADLINE: MAY 19, 2020 / 2:30 PM, LOCAL TIME

CITY OF SAN ANGELO • PURCHASING DIVISION • 72 WEST COLLEGE AVENUE • SAN ANGELO, TEXAS 76903



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1. INVITATION

1.1 General

The City of San Angelo Water Utilities Department (“City”) requests 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 and must meet (or exceed) the product specifications standards signified by brands listed. Approval of alternative product must be obtained seven (7) working days prior to bid opening. Alternative bids which did not receive prior approval will considered non-responsive. **Route all requests for specification approval through the Purchasing Division in writing at sapurch@cosatx.us.**

1.2 Document Availability

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

Bid Information > RFB: WU-04-20 / Warehouse Inventory

1.3 Digital Format

If bid specifications are obtained in digital format in order to prepare a response, the response must be submitted in hard copy according to the instructions contained in this bid package. If, in its response, respondents 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.

1.4 Insurance and Indemnification Requirements

Insurance and indemnification requirements applicable to this project are detailed within the Special Insurance Rider and/or the draft project agreement included with this solicitation package. Please review the insurance and indemnification requirements with your insurance agent prior to submission.

1.5 Required Response

The City requires a response to any Request for Bid (RFB) notifications sent to potential vendors. Should a company choose not to participate, then in order to remain on the City of San Angelo’s potential vendors list, a “No Bid Reply” form must be submitted.

1.6 Deadline and Delivery Location

Sealed RFB submittals must be received no later than **May 19, 2020, 2:30 PM, Local Time**. The time recorded at www.time.gov will serve as the official record of time. Bids received after the bidding deadline, regardless of the mode of delivery, will 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 the method chosen by the firm for delivery.

Faxed or electronically submitted bids will not be accepted.

1.7 Copies

Submit: One (1) unbound original (binder clips are acceptable), three (3) bound copies (binders, staples or binder clips are acceptable), and one (1) copy in PDF format on USB Flash Drive of entire submission including required RFB forms. **Please clearly indicate which is the original copy.**



1.8 Delivery Address

City of San Angelo
Purchasing Division, RFB: WU-04-20
72 West College Avenue, Suite 310
San Angelo, Texas 76903

Mark Sealed Envelope: RFB: WU-04-20 / Warehouse Inventory

1.9 Addenda

Should specifications be revised prior to the deadline for submittals, the City's Purchasing Division will issue addenda addressing the nature of the change and post them on the City's website. Respondents should **acknowledge any addenda and return the form with their bid package**. Respondent 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 respondent's risk.

1.10 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.

1.11 Equal Employment Opportunity

Attention of respondents to the requirement for ensuring that employees and applicants for employment are not discriminated against because of their race, color religion, sex, national origin, age, or disability.

1.12 Points of Contact

Nolan Sosa, 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 Department
City of San Angelo
301 W. Beauregard Ave.
San Angelo, Texas 76903



2. INSTRUCTIONS TO RESPONDENTS

2.1 Interpretations

All questions about the meaning or intent of the contract documents, including specifications shall be submitted to the Purchasing Division via email sapurch@cosatx.us or in writing. Please include the RFB Number and Title in the subject line. Questions received after the deadline established for submitting questions/interpretations will not be answered.

Replies will be issued by addenda and posted on the City's website. Only questions answered by formal written addenda will be binding. Oral interpretations or clarifications will be without legal effect.

2.2 Restrictions on Communication

Respondents shall not communicate with: 1) elected City officials, City staff, or contracted agents of the City 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 officials/employees/agents 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 respondent.

Violation of this provision by respondent and/or its agent may lead to disqualification of respondent's bid from consideration and from opportunities to bid on future projects.

Exceptions to the Restrictions on Communication with City employees include:

1. Private (non-business) contacts with the City by the respondent's employees acting in their personal capacity.
2. Casual social contacts that do not include mention of the RFB.
3. Respondents 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. Submission of questions to any other party prior to award may result in the disqualification of a respondent from bidding on this project as well as future projects for the City.

It is required that all questions be sent by email to sapurch@cosatx.us. **Please ensure the RFB Number and Title is in the Subject Line.** Questions submitted and the City's responses will be published in the form of addenda to the City's website at <https://www.cosatx.us>. Respondent 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.

1. Respondents may provide responses to questions asked of them after responses are received and opened. During interviews, if any, verbal questions and explanations will be permitted. If interviews are conducted, respondents shall not bring lobbyists. All cost associated with interviews will be at the respondents' expense. The City reserves the right to exclude any persons from interviews as it deems in its best interests.
2. Upon completion of the evaluation process, respondents shall receive a notification letter indicating the recommended firm and anticipated City Council agenda date. Respondents desiring a review of the solicitation process must submit a written request no later than five (5) calendar days from the date the letter was sent. Failure to submit a letter in writing to the Purchasing office prior to the end of the fifth day shall be at the risk of the respondent. The letter will indicate the name and address for submission of requests for review.

City reserves the right to contact any respondent to negotiate if such is deemed desirable by City. Such negotiations initiated by City staff persons shall not be considered a violation by respondent of this section.

2.3 Corrections, Additions, or Deletions

Corrections, additions, or deletions to any portion of the invitation will be in the form of written addenda.



2.4 Confidentiality

All submissions shall remain confidential. After award, submissions 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.

2.5 Acceptance of Bid Content

Before submitting a bid, each respondent 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 respondent receives an offer because of its bid, failure to have made such investigation and examinations will in no way relieve the respondent from its obligation to comply in every detail with all provisions and requirements.

2.6 Specifications

The specifications herein shall be the basis of comparison and where a definite item is specified, it is not the intention to discriminate against any product made by another manufacturer. Rather, the intention is to set a definite standard, style, and function. Respondents are required to quote goods that will meet or exceed the minimum or maximum specification outlined herein.

2.7 Substitutions

It is the intention of the City of San Angelo to purchase products similar or equal to that specified. **Variation from the specification must be noted in Bid by the bidder/respondent. Absence of noted variations will be interpreted to mean that the item quoted is in exact accordance with the specification(s) defined herein.** Each bidder, if not bidding on specified goods, is required to furnish with their Bid, a complete detailed description, and specifications of each item up 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 bidder, if requested, at the bidder's expense. Each sample must be marked with Bidder's name, address, and Bid Number 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 Respondent to supply the remaining items meeting specifications at the Bid price.

2.8 Materials

The Respondent certifies all materials, parts and equipment supplied or represented in response to this RFB invitation shall be new and unused, unless noted elsewhere.

2.9 Examination of RFB Documents (Bid Items)

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

2.10 Authorized Signature

Bids must show vendor name, address, and be manually signed. The originals must include the copy with the manual signatures. 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.

2.11 Modification or Withdrawal of Bids

Bids **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 respondent or their authorized agent, provided their identity is made known and they sign 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.



2.12 Prices

Respondent is to quote its lowest and best price, Free on Board (F.O.B.) destination, freight prepaid on each item to shipping location in San Angelo, Texas unless otherwise specified in the RFB. Pricing shall include packaging, transportation, unloading, and any trade and cash discounts, which may be taken, if earned. Bid must be firm, however if a Respondent 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 on units of quantity specified with extended totals; however, in the event of a discrepancy in extension total, the unit prices shall govern and will be binding for the purposes of this RFB. Pricing shall be entered on the Bid Sheet in ink or typewritten.

2.13 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 result in the removal of a bid from consideration.

2.14 Default in Delivery

The Respondent must always keep the Department Point of Contact advised as to the status of the delivery, including when a status is requested by the City. When delivery delay can be foreseen, the Respondent shall give prior notice to the administrator of the Contract, 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 Respondent. This does not limit any other remedies to the City for damage entitled under the Uniform Commercial Code.

2.15 Delivery Times

Deliveries will be accepted only during normal working hours: Monday-Friday 8:00 A.M. – 12:00 PM and 1:00 P.M to 4:00 P.M., unless prior arrangements have been made. For large orders, twenty-four (24) hours' notice to the Water Utilities Department is required to eliminate delays in delivery.

2.16 Delivery of Goods

Deliveries for WU-04-20 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 vendor in order to maintain bid price. Vendors shall deliver items in accordance with the delivery times stated above. **Time is of the essence in the delivery of this product.**

2.17 Evaluation Factors

Deliveries for WU-04-20 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 vendor in order to maintain bid price. Vendors shall deliver items in accordance with the delivery times stated above. **Time is of the essence in the delivery of this product.**

2.18 Disqualification

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

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

2.19 Copies of Bid Tabulation

Following the Bid Opening, Bid Tabulation results can be found at www.cosatx.us/bids.



2.20 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.

The City will select the most highly qualified respondent(s) of the requested services based on all evaluation factors and then attempt to negotiate a contract.

2.21 Partial Award

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

2.22 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.

2.23 Acceptance

Acceptance of respondent's qualifications will be in the form of a purchase order and contract. Notice for annual contract agreements will be a notice of award, purchase order, or contract.

2.24 Taxes

All quotations are to be submitted less Federal Excise and State of Texas Sales Taxes. Tax exemption certificates will be provided upon request.



3. TERMS AND CONDITIONS

3.1 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 at the vendor.

3.2 Vendor to Package Goods

The vendor will package goods in accordance with best commercial practices. 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 the supply agreement number (WU-04-20)
- D. Container number and total number of containers (e.g. "Box 1 of 4")
- E. The number of the container bearing the packing slip. Seller 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.

3.3 Shipment Under Reservation Prohibited

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

3.4 Title & Risk of Loss

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

3.5 Delivery Terms and Transportation Charges

F.O.B. Destination. Freight prepaid unless delivery terms are specified in Seller's Bid, or actual costs, whichever is lower. If the quoted delivery terms do not include transportation costs, the City shall reimburse Contractor for transportation costs in the amount specified in Contractor's Bid, or actual costs, whichever is lower. If transportation costs are based on actual costs, a copy of the freight bill showing actual charges for the shipment must be attached to the invoice. 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.

3.6 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 Seller will not have the right to substitute a conforming tender, provided, where the time for performance has not yet expired, the Seller may reasonably notify City of his intention to cure and may then make a conforming tender within the contract time.

3.7 Place of Delivery

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

3.8 Invoices and Payment

Contractor Seller shall submit separate invoices, in duplicate, on each purchase order after or at the time of each delivery. Invoices will bear the name of the firm and will be addressed to the appropriate City Point of Contact, Contract Number (WU-04-20), and must indicate the Purchase Order number. Invoices shall be in itemized format and shall list transportation charges, if any, separately. Payment shall not be due until the above instruments are submitted on or after delivery



Payment may be withheld by City, at the discretion of the City, to vendor until all required documents pertaining to the incurred charges are provided to the authorized City representative.

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 Seller by City.

3.9 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.

3.10 Special Tools and 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.

3.11 Warranty-Price

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

The Seller 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 Seller 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.

3.12 Warranty-Product

Seller 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 Seller's expense. In the event Seller fails to make the appropriate correction within a reasonable time, correction made by City will be at Seller's expense.

3.13 Safety Warranty

Seller 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. Seller warrants that the goods furnished will conform to the specifications, drawings, and descriptions.



3.14 No Warranty by City Against Infringements

As part of this contract for sale, Seller 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 Seller for indemnification in the event that seller issued on the grounds of infringement or the like. If Seller 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, Seller 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 Seller, 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.

3.15 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.

3.16 Cancellation

City shall have the right to cancel for default all or any part of the undelivered portion of the order if Seller breaches any of the terms hereof including warranties of Seller or if the Seller 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.

3.17 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 affected 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.

3.18 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.

3.19 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.

3.20 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.

3.21 Modifications

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



3.22 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.

3.23 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.

3.24 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.

3.25 Right to Assurance

Whenever one party to this contract in good faith has reason to question the other party’s intent to perform, they may demand that the other party give written assurance of its intent to perform. If 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.

3.26 Equal Employment Opportunity

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

- A. Treat all applicants and employees without discrimination as to race, color, religion, sex, national origin, marital status, age, or handicap.
- B. 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.

3.27 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.



3.28 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 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. 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 original, within thirty (30) days of Council award or the contract may be voided.

3.29 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.

3.30 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 all solicitation and contract documents. The failure or neglect of a vendor to receive or examine any of the solicitation or contract documents shall in no way relieve them from any obligations with respect to their submission or to any resulting 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.

3.31 Funds - Price

Following negotiations, the vendor will establish a price agreement with the City. The work will be selected based on availability of funds.

3.32 Claims for Overcharges

Seller 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.

3.33 Legal Venue

Tom Green County, Texas

3.34 Piggy-Back Procurements

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



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 solicitation. 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.

3.35 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 notify the City thirty (30) days prior to the end of each term to request a price escalation. The vendor must provide cost analysis and/or other documentation to justify any increase, to include industry and industry group level trends and indices and should not exceed an annual increase of 4% of the originally quoted cost.

The City Manager or his designee may approve a contract term extension with or without a price increase at their full discretion. An increase in price must be justified in writing or by other 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.

In certain extenuating circumstances, based on market conditions or situations beyond the vendor's control, the vendor may request a price escalation exceeding the aforementioned 4% limit. The vendor must provide the City ninety (90) day notice for price escalation requests along with cost analysis information and all other documentation justifying the increase. Supporting documentation must also provide sufficient evidence that such escalation results from conditions beyond the vendor's control. Escalation requests exceeding 4% will be reviewed by City Staff and will be subject to approval of the City Council.

The City of San Angelo reserves the right to accept or reject any and all price adjustment requests as it deems in the best interest to the City.

3.36 Term

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. Terms will renew automatically unless ninety (90) days written notice is given by either party for termination.

The vendor must notify the City ninety (90) days prior to the end of the first term, and ninety (90) days prior to the end of subsequent terms as to their intentions to terminate the contract. Respondent is obligated to fulfill contract extension for one (1) year if timely notification is not submitted.



4. BID SPECIFICATIONS

4.1 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 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)

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. BG0403D

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. BG0405D

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. Relocater shall have a bronze angle stop with tee head and lockwing. Relocater 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. Relocater shall have a bronze angle stop with tee head and lockwing. Relocater 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. Relocater shall have a bronze angle stop with tee head and lockwing. Relocater 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)

26. CD0004O

Meter coupling shall conform to the following specifications: bronze, machined inside, 1" male national pipe thread by 1¼" 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

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, ¾" male national pipe threads by ¾" 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, 1¼" male national pipe threads by 1¼" male national pipe threads, 3" long, domestic made.

(LEE) (MERIT) (McDONALD)

44. HA0506A

Nipple shall conform to the following specifications; bronze, 1¼" male national pipe threads by 1¼" male national pipe threads, 6" long, domestic made.

(LEE) (MERIT) (McDONALD)

45. HA0601A

Nipple shall conform to the following specifications; bronze, 1½" male national pipe threads by 1½" male national pipe threads, close length, domestic made.

(LEE) (MERIT) (McDONALD)

46. HA0603A

Nipple shall conform to the following specifications; bronze, 1½" male national pipe threads by 1½" male national pipe threads, 3" long, domestic made.

(LEE) (MERIT) (McDONALD)

47. HA0606A

Nipple shall conform to the following specifications; bronze, 1½" male national pipe threads by 1½" male national pipe threads, 6" long, domestic made.

(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

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)

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

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)



BUSHING

88. MA0102A

Bushing shall conform to the following specifications; bronze, ¾" machined male end national pipe thread by ½" 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 ¾" female national pipe thread, domestic made.
(MERIT) (LEE) (FORD C18-34) (MCDONALD)

90. MA0104B

Bushing shall conform to the following specifications; bronze, 1¼" machined male end national pipe thread by ¾" female national pipe thread, domestic made.
(MERIT) (LEE) (FORD C18-35) (MCDONALD)

91. MA0104C

Bushing shall conform to the following specifications; bronze, 1¼" 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 ¾" female cc thread, domestic made.
(MERIT) (LEE) (FORD BBAA-43) (MCDONALD)

4.2 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 5¼". Nominal heights and weights as follow:

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. (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. UD00110

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. 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)

4.3 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. GB0104O

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. GB0106O

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. GB0108O

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. GB0110O

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. GB0112O

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. GB0116O

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

117. GC0104O

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. GC0106O

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. GC0108O

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. GC0110O

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. GC0112O

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. GC0116O

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.

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 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 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 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 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 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

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

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

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. GS01120

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. GS01160

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

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

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.

4.4 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 drain way 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

3 1/2' (42" bury)

201. DA0048O

4' (48" bury)

202. DA0060O

5' (60" bury)



4.5 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)

4.6 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"

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)

4.7 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

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 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)

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 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

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

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

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 ¼" 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 ½" 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)

4.8 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)

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

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) (9MCDONALD)



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 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)

4.9 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

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

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. (ROMAC SST DUCTILE PLUS) (POWERSEAL 3490) (FORD FAST) (SMITH-BLAIR 663)

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)

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)



4.10 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 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 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 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)



4.11 Megalug

Megalug Mechanical Joint Restraint for C-900 Pipe & IPS PVC pipe
 (EBAA IRON) (FORD UNI-FLANGE) (KIT'S)

332.	GL17040 Size 4"	337.	GL17140 Size 14"	342.	GL17300 Size 30"
333.	GL17060 Size 6"	338.	GL17160 Size 16"	343.	GL17360 Size 36"
334.	GL17080 Size 8"	339.	GL17180 Size 18"	344.	GL17420 Size 42"
335.	GL17100 Size 10"	340.	GL17200 Size 20"	345.	GL17480 Size 48"
336.	GL17120 Size 12"	341.	GL17240 Size 24"		

MEGALUG

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

346.	GL18040 Size 4"	352.	GL18160 Size 16"
347.	GL18060 Size 6"	353.	GL18180 Size 18"
348.	GL18080 Size 8"	354.	GL18200 Size 20"
349.	GL18100 Size 10"	355.	GL18240 Size 24"
350.	GL18120 Size 12"	356.	GL18300 Size 30"
351.	GL18140 Size 14"	357.	GL18360 Size 36"



5. ATTACHMENTS

- A. City of San Angelo Standard Performance Contract Terms and Conditions (effective April 16, 2018)
- B. City of San Angelo – RFB: WU-04-20 Bid Submission Sheet (Microsoft Excel)



6. NO BID REPLY

FOR RFB: WU-04-20 / 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.

WE WISH TO ____ THE LIST OF VENDORS FOR THE CITY OF SAN ANGELO:

- Remain On**
 Be Deleted From

WE HEREBY SUBMIT A "NO BID" BECAUSE:

- We are not interested in selling through the bid process.
 We are unable to prepare the bid form in time to meet the due date.
 We do not wish to bid under the terms and conditions of the Request for Bid/Proposal.
 We do not feel we can be competitive.
 We cannot submit a bid because of the marketing or franchising policies of the manufacturing company.
 We do not wish to sell to the City of San Angelo.
 We do not sell the items or provide the services requested.
 Other: _____

FEEDBACK/OBJECTIONS: _____

AUTHORIZED AGENT • PLEASE PRINT

COMPANY	
NAME	TITLE
SIGNATURE	DATE

THANK YOU FOR YOUR ASSISTANCE!



7. REQUIRED SUBMISSION FORMS

Submit:

- One (1) unbound original (binder clips are acceptable)
Please clearly indicate the original as such.
- Three (3) bound copies (binders, staples or binder clips are acceptable)
- One (1) copy in PDF format on USB Flash Drive of submission including all required RFB forms.

Failure to submit required forms may result in the rejection of your submission.

Please submit all forms in the following order:

- Bid Submission Sheet (Microsoft Excel)
- Contact Information Form
 - IRS Form W-9
- Addenda Acknowledgment Form
- Conflict of Interest Questionnaire
- Debarment and Suspension Certification
- Local Preference Consideration Application & Economic Impact Details
- Vendor Compliance with Reciprocity on Non-Resident Vendors
- List of References
- Special Insurance Rider
 - Certificate of Insurance (ACCORD 25 FORM)
- Verification Relating to Prohibited Contracts – Israel
- Sample Contract Documents

1295 Form Requirement

At Council award, one 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 within thirty (30) days following the date of Council action. Failure to submit the original Form 1295 to Purchasing within the prescribed time limit may result in loss of contract(s).

Anti-Lobbying Agreement

In submitting its bid, respondent 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 respondent 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

Note: Vendors shall complete the attached “RFB: WU-04-20 Bid Submission Sheet” (available at www.cosatx.us/bids > WU-04-20 > Bid Submission Sheet) and submit the completed Bid Submission Sheet in both printed form and digital form (saved on the required USB Flash Drive in Microsoft Excel Format .xlsx). Failure to submit both a completed hard copy Bid Submission Sheet and a digital Bid Submission Sheet (Microsoft Excel Format) may result in the rejection of your submission as non-conformant.

- 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 seven (7) 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.

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.



Warehouse Inventory Specifications

Company Name: _____

Payment Discount (if any): _____

Piggy-Back Procurement (Please refer to Section 3.34 "Piggy-Back Procurements")

- Yes, other eligible entities can purchase.
- No, only the City of San Angelo can purchase.

Payment Terms:

NET 30.



Contact Information

AUTHORIZED AGENT • PLEASE PRINT

An Authorized Agent for an entity pursuant to this RFQ is an individual duly authorized by the entity and having full capacity to bind the entity. Authorized Agent may include an Officer of a corporation, a General Partner of a partnership, a Managing Member of a limited liability company, or any other individual who has been granted such authority in writing executed by an individual having authority to bind the entity. City reserves the right to require written verification of an individual's authority to act on behalf of an entity.

NAME	
TITLE	E-MAIL
SIGNATURE	DATE

PRIMARY CONTACT • PLEASE PRINT

Complete if different from above.

NAME	
TITLE	E-MAIL
SIGNATURE	DATE

VENDOR DETAILS • PLEASE PRINT

VENDOR NAME	
PHONE	FAX
WEBSITE	
MAILING ADDRESS	
CITY / STATE / ZIP	
PHYSICAL ADDRESS (NO PO BOXES)	
CITY / STATE / ZIP	

ATTACH IRS W-9



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 _____

AUTHORIZED AGENT • PLEASE PRINT

COMPANY NAME	ADDRESS
CITY/STATE	ZIP
NAME	TITLE
SIGNATURE	DATE



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 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.

Nolan A. Sosa
Purchasing Manager

LOCAL GOVERNMENT OFFICERS OF THE CITY OF SAN ANGELO

Local Government Officers of the City of San Angelo as defined by Chapter 176 of the Texas Local Government Code (Revised 03/10/2020)

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 (Mayor Pro Tempore)
- Lucy Gonzales, SMD 4
- Lane Carter, SMD5
- Billie DeWitt, SMD 6

City Manager: Daniel Valenzuela

Development Corporation Officers:

- Todd R. Kolls, President
- Bill Dendle, First Vice President
- David Cummings, Second Vice President
- Edward Carrasco, Director
- Garland Freeze, Director
- Max Puello, Director

Executive Director: Guy Andrews



Conflict of Interest Questionnaire Instructions

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.



Debarment and Suspension Certification Instructions

1. By signing and submitting this bid, 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 bid 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," "bid," 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 bid 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 bid 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.



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.

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VENDOR	
NAME	TITLE
SIGNATURE	DATE



Local Preference Consideration Instructions

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.



Local Preference Consideration Application

Vendor Name: _____

Physical Address: _____

Mailing Address: _____

City, State, Zip Code: _____

Vendor 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 vendor set out above and if requested by the city will provide, within 10 days of notice, the necessary documents to substantiate the information provided.

AUTHORIZED AGENT • PLEASE PRINT

VENDOR	
NAME	TITLE
SIGNATURE	DATE



Vendor Compliance with Reciprocity on Non-Resident Vendors

Texas Government Code 2252.002 provides that, in order to be awarded a contract as low vendor, 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 for your submission to meet specifications. The failure of out-of-state or non-resident contractors to do so will automatically disqualify that vendor. **Texas resident vendors must check the blank in Section B.**

A. NON-RESIDENT (OUTSIDE OF TEXAS)

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. TEXAS RESIDENT

Our principal place of business or corporate offices are in the State of Texas: _____. (Mark a "check" in the blank if this applies.)

AUTHORIZED AGENT • PLEASE PRINT

VENDOR NAME	ADDRESS
CITY/STATE	ZIP
NAME	TITLE
SIGNATURE	DATE



List of References

List at least three (3) references of similar scope and size giving organization name, contact information, and term.

1	Government or Company Name	
	Location	
	Contact Person and Title	
	Telephone Number	
	Scope of Work	
	Contract Period	

2	Government or Company Name	
	Location	
	Contact Person and Title	
	Telephone Number	
	Scope of Work	
	Contract Period	

3	Government or Company Name	
	Location	
	Contact Person and Title	
	Telephone Number	
	Scope of Work	
	Contract Period	



4	Government or Company Name	
	Location	
	Contact Person and Title	
	Telephone Number	
	Scope of Work	
	Contract Period	

5	Government or Company Name	
	Location	
	Contact Person and Title	
	Telephone Number	
	Scope of Work	
	Contract Period	

6	Government or Company Name	
	Location	
	Contact Person and Title	
	Telephone Number	
	Scope of Work	
	Contract Period	



Special Insurance Rider

The City of San Angelo requires contractors doing business with the City to provide and continuously maintain in effect at all times during the contract term insurance coverages as indicated on this Special Insurance Rider. Prior to commencement of Work, Contractor shall provide the City’s Risk Management Office with a Certificate of Insurance on ACCORD 25 Form that confirms that Contractor has insurance coverages in compliance with the City’s minimum insurance requirements set forth herein.

Commercial General Liability

This policy shall be an occurrence-type policy and shall protect Provider and additional insureds against all claims arising from bodily injury, sickness, disease or death of any person (other than Provider’s employees) and damage to property of City or others arising out of the act or omission of Provider or its agents and employees. This policy shall also include protection against claims for the contractual liability assumed by Provider under the paragraph of this Agreement entitled “Indemnification,” including completed operations, products liability, contractual coverage, broad form property coverage, explosion, collapse, underground, premises/operations, and independent Vendors (to remain in force for two years after final payment). Coverage limits shall not be less than:

MINIMUM LIMIT(S):

\$1,000,000	Each Occurrence
\$1,000,000	Personal and Advertising Injury
\$2,000,000	General Aggregate
\$1,000,000	Products/Completed Operations Aggregate
\$100,000	Fire Damage

Business Auto Liability

This policy shall be written in comprehensive form and shall protect Provider and the additional insureds against all claims for injuries to members of the public and damage to property of others arising from the use of motor vehicles and shall cover operation on and off the premises of all motor vehicles licensed for highway use, whether they are owned, non-owned or hired. Coverage shall be as follows:

MINIMUM LIMIT(S):

\$1,000,000	Each Accident Limit
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Workers’ Compensation and Employer’s Liability

If Provider hires any employees, Provider shall maintain Workers’ Compensation and Employer’s Liability insurance, which shall protect Provider against all claims under applicable state workers’ compensation laws and employer’s liability. The insured shall also be protected against claim for injury, disease or death of employees which for any reason, may not fall within the provisions of a workers’ compensation law. Coverage shall not be less than:

MINIMUM LIMIT(S):

\$500,000	Employer’s Liability, Each Accident
\$500,000	Employer’s Liability, Disease – Each Employee
\$500,000	Employer’s Liability, Disease – Policy Limit

Professional Liability

This insurance shall include contractual liability in its coverage, and the coverage under this policy shall survive the term of this Agreement as long as any liability could be asserted. Limit of liability per claim shall not be less than:

MINIMUM LIMIT(S):

\$2,000,000	Combined Single Limits
-------------	------------------------



Environmental/Pollution Liability

This insurance shall include contractual liability in its coverage, and the coverage under this policy shall survive the term of this Agreement as long as any liability could be asserted. Limit of liability per claim shall not be less than:

MINIMUM LIMIT(S):

\$2,000,000 Combined Single Limits

Cyber Liability

This policy shall be an occurrence-type policy and shall protect provider and additional insured against all claims arising from cyber-attacks against the insured, members of the public, and the City. Coverage shall not be less than:

MINIMUM LIMIT(S):

\$5,000,000	Privacy Notification and Crisis Management Expense
\$5,000,000	Information Security and Privacy Liability
\$5,000,000	Regulatory Defense and Penalties
\$5,000,000	Payment Card Industry Fines and Assessments
\$5,000,000	Website Media
\$5,000,000	Business Interruption
\$5,000,000	Extra Expense
\$5,000,000	Data Assets Coverage
\$5,000,000	Cyber-Extortion
\$5,000,000	Computer Fraud
\$5,000,000	Funds Transfer Fraud
\$5,000,000	Social Engineering/ Fraudulent Instruction Coverage

Builder’s Risk (All-Risk)

This insurance shall include contractual liability in its coverage, and the coverage under this policy shall survive the term of this Agreement as long as any liability could be asserted. Limit of liability per claim shall not be less than:

MINIMUM LIMIT(S):

\$2,000,000 Combined Single Limits

Liquor Liability



The certificate of insurance shall indicate that the City of San Angelo is provided by endorsement a Waiver of Subrogation in favor of the City on all policies.

All insurance policies required herein shall be drawn in the name of Contractor with the City of San Angelo as an additional insured to include its employees, agents, and Council persons by endorsement on all policies except workers compensation.

Upon request of the City of San Angelo, Contractor shall produce copies of insurance policies and/or endorsements that reflect the required insurance coverages and endorsements.

Certificate Holder:

City of San Angelo, Texas
72 W. College Avenue
San Angelo, Texas 76903

Written contracts will contain more detailed information regarding insurance requirements.

Bonds are required for contracts that meet the following guidelines:

- Contract in excess of \$100,000 requires a Performance Bond
- Contract in excess of \$50,000 requires a Payment Bond

The Bond must be executed by a corporate surety in accordance with Section 1, Chapter 87, Acts of the 56th Legislature, Regular Session, 1959 (Article 7.19-1, Vernon's Texas Insurance Code) per Texas Government Code Sec. 2253.021 and must be payable to the City of San Angelo, Texas.

Please provide your agent or broker with a copy of these requirements.

If you have any questions concerning compliance with the City's minimum insurance requirements, please call the Risk Management Division at 325-657-4359.

Contractor agrees to comply with City of San Angelo Special Insurance Rider requirements.

CONTRACTOR
AUTHORIZED AGENT • PLEASE PRINT

VENDOR	
NAME	TITLE
SIGNATURE	DATE



Verification Relation to Prohibited Contracts – Israel

CITY OF SAN ANGELO, TEXAS, RFB WU-04-20

My name is _____ “Declarant”;
FIRST MIDDLE LAST

My date of birth is _____ ; and,
BIRTHDAY

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
COUNTY OFFICE HELD

_____ day of _____ , 20 _____
DAY MONTH YEAR

DECLARANT SIGNATURE



Draft Contract Cover Acknowledgement

Respondents shall submit copies of standard contract terms along with any and all terms and conditions applicable to the deliverance of goods/services resulting from this solicitation.

_____ I READ AND CAN COMPLY WITH ALL CONTRACT TERMS.

_____ I READ THE CONTRACT TERMS, REVISED THOSE I CANNOT COMPLY WITH, AND INCLUDED A REVISED COPY WITH MY SUBMISSION.

AUTHORIZED AGENT • PLEASE PRINT

VENDOR	
NAME	TITLE
SIGNATURE	DATE



Draft Contract Cover

CONTRACT # _____

RFB NO. WU-04-20 – WAREHOUSE INVENTORY

In consideration of the mutual covenants and promises herein contained, City of San Angelo and the below named Contractor agree as follows:

CITY OF SAN ANGELO – WATER UTILITIES DEPARTMENT
Allison Strube, Director of Water Utilities
72 W. College Avenue – Suite 310
San Angelo, Texas 76903
Telephone: 325-657-4270
E-mail: Allison.Strube@cosatx.us

CONTRACTOR: _____
(If an entity other than individual, indicate whether Contractor is authorized by or registered as a foreign entity with the Texas Secretary of State to do business in Texas) Yes / No

Authorizing Officer/Agent: _____
EMAIL: _____
Address: _____

Telephone: _____

General Description of Project & Scope of Work:
Contractor agrees to supply materials at the pricing outlined in Contractor’s response to RFB: WU-04-20, attached hereto as **Exhibit “A”** and made a part hereof for all purposes. Contractor will supply materials according to the specifications outlined in the City of San Angelo - Request for Bids WU-04-20.

Effective Date: This contract shall be effective from and after the _____ day of _____, 2020.

Date of City Council Authorization _____, 2020

Contract Time:
X The term of this Agreement shall be for a period of ONE (1) YEARS, commencing on the “Effective Date” and automatically expiring on _____, 2021, subject to extension as may be provided for in the Contract Documents.

X TWO (2) additional ONE (1) YEAR term extensions will be available subject to agreement by both parties. Terms will renew automatically unless ninety (90) days written notice is given by either party for termination.



Davis-Bacon Act or Texas Prevailing Wage Rate, Texas Gov. Code, Chap. 2258:

Davis-Bacon Act required payment of prevailing wages on federally funded or assisted construction projects.

Applies / Does Not Apply to this contract.

Texas Government Code Chapter 2258 Prevailing Wage Rates

Applies / Does Not Apply to this contract.

Contract Price: Notwithstanding anything to the contrary in the contract documents, compensation due and payable by the City under this Contract shall not exceed;

Base Price \$ _____,

Schedule of Rates and Charges

(Bid Sheet, Submitted by CONTRACTOR in response to RFB: WU-04-20, a copy of which is attached hereto as Exhibit "A" and made a part hereof for all purposes),

plus Alternate 1 \$ _____,

plus Alternate 2 \$ _____,

plus Alternate 3 \$ _____

for a total sum of _____ AND NO/100 DOLLARS (\$ _____), except upon Change Order authorized under this contract or written amendment executed by the authorized representatives of the parties pursuant to authority of their governing bodies.

Contract Documents Adopted by Reference: The parties to this Contract adopt in their entirety by reference thereto each of the following contract documents indicated by checkmark, as if each document were set forth herein word for word and in its entirety:

RFB No. WU-04-20

ADDENDUM 1 to bid dated _____, 20____

ADDENDUM 2 to bid dated _____, 20____

ADDENDUM 3 to bid dated _____, 20____

City of San Angelo Standard Performance Contract Terms (effective April 16, 2018) *

City of San Angelo Standard Professional Services Contract Terms (effective April 16, 2018) *

City of San Angelo Owner's General Construction Conditions (effective April 16, 2018) *



Plans: _____
(Include engineering entity, date, part/phase and other identifying information)

Technical Specifications _____
(Include source, date, part/phase and other identifying information)

Contractor's Response to RFB No. WU-04-20

Other: **Additional Document(s) Provided in Response to RFB: WU-04-20 (see "Required Forms")**

* The terms and conditions in these referenced contract documents apply to the Contract to the exclusion of any other terms that the Contractor seeks to impose or incorporate, or which are implied by trade, custom, practice or course of dealing.

Acknowledgement of Receipt of Contract Documents:

The foregoing identified Contract Documents excluding Contractor's Response to this Request for Bids are posted on the City's website at <http://www.cosatx.us/bids>. Hard copies are available to the Contractor upon request addressed to the City of San Angelo, Purchasing Division, 72 W. College, San Angelo, Texas 76903; (325) 657-4219. BY THE EXECUTION HEREOF, CONTRACTOR REPRESENTS THAT CONTRACTOR HAS REVIEWED AND IS FAMILIAR WITH EACH OF THE CONTRACT DOCUMENTS, HAS SECURED HARD COPIES OF THE CONTRACT DOCUMENTS THAT CONTRACTOR DESIRES TO ACQUIRE, AND AGREES THAT IT IS THE INTENTION OF THE PARTIES THAT THE CONTRACT DOCUMENTS BE MADE A PART OF THIS AGREEMENT AS IF EACH WERE SET FORTH, VERBATIM IN THIS AGREEMENT.

The terms, provisions, specifications and conditions of RFB No. WU-04-20 and any other documents, conditions, specifications, technical data, drawings, requirements and addenda comprising said RFB shall prevail over any conflicting term, provision, specification or condition in Contractor's Response.

Separately Executed Contract Documents: The following contract documents indicated by checkmark below are separately required to be executed by the Contractor as conditions precedent to City's performance obligations under the contract:

Authorized Signature/Contact Information (with W-9)

Addenda Acknowledgement

Bid Security (based on base bid price)

"Conflict of Interest Questionnaire" Chapter 176 of the Texas Local Government Code

Debarment and Suspension Certification



Local Preference Consideration Application & Economic Impact Details

Vendor Compliance with Reciprocity on Non-Resident Vendors

Verification Relating to Prohibited Contracts – Israel

Certificate of Insurance

Special Insurance Rider

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, with original submitted to City of San Angelo Purchasing Division.

Contractor Representations and Warranty: Contractor represents and warrants to City that it has not employed or retained any person or company employed by City to solicit or secure this Agreement and that it has not offered to pay, paid, or agreed to pay any person any fee, percentage, brokerage fee, or gift of any kind contingent upon or in connection with the award of this Agreement.

Authority to Execute: Each of the below named persons executing this contract hereby warrant and represent that he or she is properly authorized to execute the contract for purposes of legally binding the party on whose behalf the contract is executed.



IN WITNESS WHEREOF, the parties hereto have caused this instrument to be executed by their respective duly authorized officials the day and year indicated below.

CONTRACTOR:

BY: _____
(Name and office held)

DATE: _____

EMAIL: _____

CITY OF SAN ANGELO:

By: _____
Daniel Valenzuela, City Manager

ATTEST:

Julia Antilley, City Clerk

DATE: _____
(SEAL)

City Official Approvals:

APPROVED AS TO CONTENT:

Nolan A. Sosa, Purchasing Manager

APPROVED AS TO CONTENT:

Allison Strube, Director of Water Utilities

APPROVED AS TO RISK:

Charles Hagen, Risk Manager

APPROVED AS TO FORM:

Dan T. Saluri, Deputy City Attorney