

EAST BAY MUNICIPAL UTILITY DISTRICT

REQUEST FOR QUOTATION (RFQ) No. 1905

For

Resilient Seated Gate and Butterfly Valves

Contact Person: Susan Rixin, Buyer

Phone Number: (510) 287-0451

E-mail Address: Susan.Rixin@ebmud.com

For complete information regarding this project, see RFQ posted at <https://www.ebmud.com/business-center/materials-and-supplies-bids/current-requests-quotation-rfq/> or contact the EBMUD representative listed above. Please note that prospective bidders are responsible for reviewing this site during the RFQ process, for any published addenda regarding this RFQ.

RESPONSE DUE

by

1:30 p.m.

on

November 14, 2018

at

EBMUD, Purchasing Division

375 Eleventh St., First Floor

Oakland, CA 94607



375 Eleventh Street, Oakland, CA 94607

Website: ebmud.com

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EAST BAY MUNICIPAL UTILITY DISTRICT

RFQ No. 1905

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I. STATEMENT OF WORK

A. SCOPE

It is the intent of these specifications, terms, and conditions to describe District requirements for resilient-seated gate valves and butterfly valves as needed and as ordered by the District for the period January 1, 2019 through December 31, 2020.

East Bay Municipal Utility District (District) intends to award a two (2) year contract with three (3) options to renew for one-year period(s) to the lowest cost bidder(s) whose response conforms to the RFQ and meets the District's requirements.

It is the policy of the District to provide reliable, high-quality drinking water and wastewater service through *sustainable* operational, maintenance, and construction activities that avoid, minimize, or mitigate adverse effects to the environment and the public. Therefore, it is the intent of this RFQ to procure the most environmentally preferable products with equivalent or higher performance and at equal or lower cost than traditional products. Specific requirements from the Districts sustainability initiatives, that are related to this RFQ, are included in the appropriate RFQ sections.

B. BIDDER QUALIFICATIONS

1. Bidder Minimum Qualifications

- a. Bidder, bidder's principal, or bidder's staff shall have been regularly engaged in the business of providing resilient seated gate and butterfly valves for at least five (5) years.
- b. Bidder shall be an authorized manufacturer, dealer, or provider of the items described in this RFQ.
- c. Bidder shall possess all permits, licenses, and professional credentials necessary to supply product and perform services as specified under this RFQ.

C. SPECIFIC REQUIREMENTS

1. Specifications referenced in this section are included in Exhibit D-Specifications For Resilient Seated Gate and Butterfly Valves. Bidders must comply with all specifications contained in Exhibit D of this RFQ.
2. All products shall be in new and unused condition and shall be of the most current and up to date model.

3. Under this proposal, it is required that gate and butterfly valves in the sizes and estimated quantities shown herein and in conformance with the requirements of these Special Requirements and the District's specifications (including but not limited to Section 15102.5, Manufacture of Resilient-Seated Gate Valves, and Section 15103.5, Manufacture of Butterfly Valves 16" and Smaller), be constructed, completed, and delivered F.O.B. the District's Oakport Storage Center, 5601 Oakport Street, Oakland, California.
4. Production samples of each valve type and size must be submitted to EBMUD prior to commencement of contract.

Materials in Contact with Drinking Water.

1. All materials, equipment, or products that will be in contact with drinking water (potable water) shall be tested and certified as meeting the specifications of NSF/ANSI 61 Standard in accordance with California Code of Regulations, Title 22, Section 64591. Examples include, but are not limited to, valves, pumps, flow meters, protective materials (coatings, linings, liners), joining and sealing materials, pipes, tanks, pipe fittings, filters, cleaning chemicals, and lubricants.
2. All materials, equipment, or products that will be in contact with drinking water (potable water) shall be tested and certified as "lead-free" per California Health and Safety Code Section 116875 and NSF 61 Annex G or NSF 372.
3. All chemicals that will be in contact with drinking water shall be certified by NSF to NSF/ANSI Standard 60.
4. For materials:
 - a. Documentation which demonstrates current NSF/ANSI Standard 61 certification shall be submitted by the bidder in their bid package.
 - b. If awarded, contractor is responsible for informing the District within 5 days, if and when their certification lapses or expires. Failure to inform the District within the allotted time will be sufficient grounds for immediate termination of the contract.

D. DELIVERABLES

1. The Contractor shall make delivery to the District within 60 days after receipt of order. All items shall be delivered on pallets or in containers so that off-loading at destination can be accomplished conveniently by forklift truck. Any shipment received in bad order will be refused or cost of unloading such a shipment will be

charged to the vendor. **Each shipment shall include a letter of compliance certifying compliance with the requirement for maximum zinc content of the brass or bronze components.**

E. INSPECTION

1. The District will inspect 100% of the valves purchased under this Agreement at the point of delivery.
2. The District reserves the right to perform inspections and witness tests at the manufacturer's facility. The District may witness the following processes: shell hydrostatic tests, seat leakage tests, surface preparation and coating and lining application, holiday and dry film thickness testing.
3. Rejected valves shall be reworked or replaced as determined by the District's inspector or authorized agent, and replacement or repaired items shall be subject to the original delivery schedule.
4. Authorized agent's expenses will be billed to the Contractor.
5. INSPECTOR NOTIFICATION

Provide the District with advanced written notification of the dates for the fabrication and testing processes described in this Section for each site. Contact the District's Plant Inspection Section at (510) 287-1132.

- a. For sites where the travel is less than 125 miles one way from Oakland provide notification 5 working days prior to required presence of the inspector.
- b. For sites where the travel is between 125 and 200 miles one way from Oakland provide notification a minimum of 10 working days prior to required presence of the Inspector.
- c. For sites within the continental United States where the travel is 200 miles or more one way from Oakland provide notification a minimum of 15 working days prior to required presence of Inspector.
- d. For international locations and site outside the continental United States provide notification a minimum of 30 working days prior to the required presence of the Inspector.

If the required notification is not given, the District will schedule the inspection at its convenience and the activity to be witnessed shall not proceed until the

Inspector arrives or the District notifies the Contractor that it is choosing to waive its witness inspection requirement. In the event that the required notification is not given and the activity has occurred in the absence of the Inspector, the Inspector may reject the processes completed to date and require the activity to be redone.

Delays resulting from waiting on the witness inspection for the reasons given above will be non-excusable. Expenses incurred by delays or repeat of the work process shall be borne by the Contractor.

6. WITNESS TRAVEL EXPENSES

- a. Witness travel expenses for the District Inspector shall be borne by the Contractor.
- b. Travel expenses include hotel lodging at an establishment rated three diamond or better by the California State Automobile Association (AAA), or comparable listing, and \$69 meal allowance per day for the duration of the trip.
- c. Travel expenses shall be provided for witness inspections at a locality exceeding 125 miles from Oakland for the Inspector.
- d. Travel expenses shall include round trip direct route coach airfare from Oakland or San Francisco for inspections at a locality exceeding 200 miles from Oakland for the Inspector. Travel expenses shall also include mid-sized car rental or taxi service, fuel, tolls, ground transportation to and from the airport and airport parking at the departing airport.
- e. For international or travel outside the United States, per diem rates are those established by the U.S. Department of State for the specific location and dates of travel. Travel expenses may include the direct cost of securing passports, visas, language interpreters, document translators, communications and internet access.
- f. Any witness inspection that has to be repeated due to necessary rework shall be paid for at the Contractor's expense.

7. MATERIALS OF CONSTRUCTION

Materials used in the fabrication and construction of the valves shall fully conform to the requirements of the specifications. No substitution of material will be permitted without prior written approval from the District.

8. TIE ROD CONNECTIONS

All push-on gate valves, including flanged-by-push-on shall have lugs integrally cast on the bell end with a slot or hole as shown on Drawing No. 3361-B (included in this proposal). The successful bidder will be required to submit a drawing showing the details of the lug proposed for District approval prior to fabrication.

9. VALVE ENDS FOR USE WITH PVC PIPE

Valves designated on the Bidding Sheets as Push-on are for use with PVC pipe manufactured in accordance with AWWA Standard C-900-16.

10. VALVE TYPE

All valves under this proposal are for buried service (open right).

11. MARKINGS

District code numbers shall be stenciled on the valve body or bonnet in 1" high figures in a color which is readily visible when in place on the cast iron. Codes used shall be as follows:

Schedule I

Item	Code
1.	86105
2.	86107
3.	86109
4.	86312
5.	86314
6.	86316
7.	86318
8.	86507
9.	86509

Schedule II

Item	Code
1.	86144
2.	86151

12. PROTECTIVE COATINGS**Butterfly Valves:**

Coatings on the external and internal surfaces of butterfly valve bodies and discs shall be high build epoxy per EBMUD Specification 15103.5 and 09803.5.

Resilient Seated Gate Valves:

External and internal surfaces of resilient seated gate valves shall be coated with fusion bonded epoxy per EBMUD Specification 15102.5.

F. FAILURE TO MEET SPECIFICATIONS

In the event any shipment or shipments of a Contractor's product do not meet the specification or delivery requirements, the District may reject the shipment or shipments and, at its option, may purchase this material from any supplier on the open market who can meet the District's specification requirements or the District may demand immediate replacement by Contractor of the non-conforming product. Any costs over and above the original contract price will be charged back to the Contractor. In addition, Contractor shall bear the costs of removal and disposition for any delivery which fails to conform to the specifications.

II. CALENDAR OF EVENTS

EVENT	DATE/LOCATION
RFQ Issued	October 18, 2018
Deadline For Submission of Questions	October 26, 2018
Response Due	November 14, 2018 by 1:30 p.m.
Anticipated Contract Start Date	January 1, 2019

Note: All dates are subject to change.

Bidders are responsible for reviewing <https://www.ebmud.com/business-center/materials-and-supplies-bids/current-requests-quotation-rfqs/> for any published addenda. Hard copies of addenda will not be mailed out.

III. DISTRICT PROCEDURES, TERMS, AND CONDITIONS

A. RFQ ACCEPTANCE AND AWARD

1. RFQ responses will be evaluated to determine that they are responsive, responsible, and that they meet the specifications as stated in this RFQ.
2. The District reserves the right to award to a single or to multiple Contractors, dependent upon what provides the lowest overall cost to the District.
3. The District has the right to decline to award this contract or any part of it for any reason.
4. Any specifications, terms or conditions, issued by the District, or those included in the bidder's submission, in relation to this RFQ, may be incorporated into any purchase order or contract that may be awarded as a result of this RFQ.
5. Award of contract. The District reserves the right to reject any or all proposals, to accept one part of a proposal and reject the other, unless the bidder stipulates to the contrary, and to waive minor technical defects and administrative errors, as the interest of the District may require. Award will be made or proposals rejected by the District as soon as possible after bids have been opened.

B. BRAND NAMES, APPROVED EQUIVALENTS, DEVIATIONS, AND EXCEPTIONS

Any references to manufacturers, trade names, brand names, and/or catalog numbers are intended to be descriptive, but not restrictive, unless otherwise stated, and are intended to indicate the quality level desired. Bidders may offer an equivalent product that meets or exceeds the specifications.

The District reserves the right to be the sole judge of what shall be considered equal and/or acceptable, and may require the bidder to provide additional information and/or samples. If the bidder does not specify otherwise, it is understood that the brand and/or product referenced in this RFQ will be supplied.

Taking exception to the RFQ, or failure on the part of the bidder to comply with all requirements and conditions of this RFQ, may subject the RFQ response to rejection. If no deviations are shown, the bidder will be required to furnish the material exactly as specified. The burden of proof of compliance with the specifications will be the responsibility of the bidder.

This RFQ is subject to acceptance only on the terms and conditions stated in this RFQ. Any additional or different terms and conditions proposed by the bidder are hereby

rejected, and shall be of no force or effect unless expressly assented to in writing by the District.

RFQ responses based on equivalent products must use Exhibit A "Exceptions, Clarification and Amendments" to:

- a. Clearly describe the alternate offered and indicate specifically how it differs from the product specified in this RFQ
- b. Include complete descriptive literature and/or specifications as proof that the proposed alternate will be equal to or better than the product named in this RFQ

C. PRICING

1. All prices are to be F.O.B. destination. Any freight/delivery charges are to be included.
2. All prices quoted shall be in United States dollars.
3. Price quotes shall include any and all payment incentives available to the District.
4. Bidders are advised that in the evaluation of cost, if applicable, it will be assumed that the unit price quoted is correct in the case of a discrepancy between the unit price and extended price.

D. PROTESTS

Protests must be in writing and must be received no later than seven (7) business days after the District issues the Notice of Intent to Award, which is sent to all entities who submitted a bid package. The District will reject the protest as untimely if it is received after this specified time frame. Protests will be accepted from bidders or potential bidders only.

If the protest is mailed and not received by the District, the protesting party bears the burden of proof to submit evidence (e.g., certified mail receipt) that the protest was sent in a timely manner so that it would be received by the District within the RFQ protest period.

Bid protests must contain a detailed and complete written statement describing the reason(s) for protest. The protest must include the name and/or number of the bid, the name of the firm protesting, and include a name, telephone number, email address and physical address of the protester. If a firm is representing the protester, they shall include their contact information in addition to that of the protesting firm.

Protests must be mailed or hand delivered to the Manager of Purchasing, East Bay Municipal Utility District, 375 Eleventh Street, Oakland, CA 94607 or P.O. Box 24055, Oakland, California 94623. Facsimile and electronic mail protests must be followed by a mailed or hand delivered identical copy of the protest and must arrive within the seven day time limit. Any bid protest filed with any other District office shall be forwarded immediately to the Manager of Purchasing.

The bid protester can appeal the determination to the requesting organization's Department Director. The appeal must be submitted to the Department Director no later than five working days from the date of receipt of the requesting organization's determination on the protest.

Such an appeal must be made in writing and must include all grounds for the appeal and copies of the original protest and the District's response. The bid protester must also send the Purchasing Division a copy of all materials sent to the Department Director. The Department Director will make a determination of the appeal and respond to the protester by certified mail in a timely manner. If the appeal is denied, the letter will include the date, time, and location of the Board of Directors meeting at which staff will make a recommendation for award and inform the protester it may request to address the Board of Directors at that meeting.

The District may transmit copies of the protest and any attached documentation to all other parties who may be affected by the outcome of the protest. The decision of the District as to the validity of any protest is final. This District's final decision will be transmitted to all affected parties in a timely manner.

E. METHOD OF ORDERING

1. POs and payments for products and/or services will be issued only in the name of Contractor.
2. Any and all change orders shall be in writing and agreed upon, in advance, by Contractor and the District.

F. TERM / TERMINATION / RENEWAL

1. The term of the contract, which may be awarded pursuant to this RFQ, will be two (2) years.
2. At the sole discretion of the District, any contract which may be awarded pursuant to this RFQ, may be extended for three (3) additional one-year terms at agreed prices with all other terms and conditions remaining the same. In the

event that a Contractor does not agree to an extension, the District shall be given a minimum of 90 days notice to locate a suitable replacement contractor.

3. This Agreement may be terminated for convenience by the District provided the Contractor is given written notice of not less than 30 calendar days. Upon such termination, the District shall pay the Contractor the amount owing for the products ordered and satisfactorily received by the District. This shall be the sole and exclusive remedy to which the Contractor is properly entitled in the event of termination by the District.
4. This Agreement may be terminated for cause at any time, provided that the District notifies Contractor of impending action.

G. WARRANTY

1. Bidder expressly warrants that all goods and services to be furnished pursuant to any contract awarded it arising from the Bid will conform to the descriptions and specifications contained herein and in supplier catalogs, product brochures and other representations, depictions or models, and will be free from defects, of merchantable quality, good material, and workmanship. Bidder expressly warrants that all goods and services to be furnished pursuant to such award will be fit and sufficient for the purpose(s) intended. This warranty shall survive any inspections, delivery, acceptance, payment, or contract termination for any reason, by the District.

H. INVOICING

1. Payment will be made within thirty (30) days following receipt of a correct invoice and upon complete satisfactory receipt of product and/or performance of services.
2. The District shall notify Contractor of any invoice adjustments required.
3. Invoices shall contain, at a minimum, District purchase order number, invoice number, remit to address, and itemized products and/or services description.
4. The District will pay Contractor in an amount not to exceed the total amount quoted in the RFQ response.

IV. RFQ RESPONSE SUBMITTAL INSTRUCTIONS AND INFORMATION

A. DISTRICT CONTACTS

All contact during the competitive process is to be through the contact listed on the first page of this RFQ. The following persons are to be contacted only for the purposes specified below.

TECHNICAL SPECIFICATIONS:

Attn: Mark Toyofuku, Assistant Engineer

EBMUD-Engineering

E-Mail: Mark.Toyofuku@ebmud.com

PHONE: (510) 287-0451

CONTRACT EQUITY PROGRAM:

Attn: Contract Equity Office

PHONE: (510) 287-0114

AFTER AWARD:

Attn: Kelley Smith, Purchasing Contract Supervisor

EBMUD-Purchasing

E-Mail: Kelley.Smith@ebmud.com

PHONE: 510-287-0355

B. SUBMITTAL OF RFQ RESPONSE

1. Responses must be submitted in accordance with Exhibit A – RFQ Response Packet, including all additional documentation stated in the “Required Documentation and Submittals” section of Exhibit A.
2. Late and/or unsealed responses will not be accepted.
3. RFQ responses submitted via electronic transmissions will not be accepted. Electronic transmissions include faxed RFQ responses or those sent by electronic mail (“e-mail”).
4. RFQ responses will be received only at the address shown below, must be SEALED, and must be received at the District Purchasing Division by 1:30 p.m. on the due date specified in the Calendar of Events. Any RFQ response received after that time or date, or at a place other than the stated address cannot be considered and will be returned to the bidder unopened.

All RFQ responses must be received and time stamped at the stated address by the time designated. The Purchasing Division's timestamp shall be considered the

official timepiece for the purpose of establishing the actual receipt of RFQ responses.

5. RFQ responses are to be addressed/delivered as follows:

Mailed:

Andrew Akelman, Manager of Purchasing
East Bay Municipal Utility District
Resilient Seated Gate and Butterfly Valves
RFQ No. 1905
EBMUD–Purchasing Division
P.O. Box 24055
Oakland, CA 94623

Hand Delivered or delivered by courier or package delivery service:

Andrew Akelman, Manager of Purchasing
East Bay Municipal Utility District
Resilient Seated Gate and Butterfly Valves
RFQ No. 1905
EBMUD–Purchasing Division
375 Eleventh Street, First Floor
Oakland, CA 94607

Bidder's name, return address, and the RFQ number and title must also appear on the mailing package.

6. All costs required for the preparation and submission of an RFQ response shall be borne by the bidder.
7. California Government Code Section 4552: In submitting an RFQ response to a public purchasing body, the bidder offers and agrees that if the RFQ response is accepted, it will assign to the purchasing body all rights, title, and interest in and to all causes of action it may have under Section 4 of the Clayton Act (15 U.S.C. Sec. 15) or under the Cartwright Act (Chapter 2, commencing with Section 16700, of Part 2 of Division 7 of the Business and Professions Code), arising from purchases of goods, materials, or services by the bidder for sale to the purchasing body pursuant to the RFQ response. Such assignment shall be made and become effective at the time the purchasing body tenders final payment to the bidder.
8. Bidder expressly acknowledges that it is aware that if a false claim is knowingly submitted (as the terms “claim” and “knowingly” are defined in the California False Claims Act, Cal. Gov. Code, §12650 et seq.), the District will be entitled to civil remedies set forth in the California False Claim Act.

9. The RFQ response shall remain open to acceptance and is irrevocable for a period of one hundred eighty (180) days, unless otherwise specified in the RFQ documents.
10. It is understood that the District reserves the right to reject any or all RFQ responses.
11. RFQ responses, in whole or in part, are NOT to be marked confidential or proprietary. The District may refuse to consider any RFQ response or part thereof so marked. RFQ responses submitted in response to this RFQ may be subject to public disclosure. The District shall not be liable in any way for disclosure of any such records.



EXHIBIT A

RFQ RESPONSE PACKET

RFQ No.1905 – Resilient Seated Gate and Butterfly Valves

To: The EAST BAY MUNICIPAL UTILITY District (“District”)

From: _____
(Official Name of Bidder)

RFQ RESPONSE PACKET GUIDELINES

- **BIDDERS ARE TO SUBMIT ONE (1) ORIGINAL HARDCOPY RFQ RESPONSE WITH ORIGINAL INK SIGNATURES, AND ONE COPY CONTAINING THE FOLLOWING, IN THEIR ENTIRETY:**
 - **EXHIBIT A – RFQ RESPONSE PACKET**
 - **INCLUDING ALL REQUIRED DOCUMENTATION AS DESCRIBED IN “EXHIBIT A-REQUIRED DOCUMENTATION AND SUBMITTALS”**
 - **CONTRACT EQUITY PROGRAM APPLICABLE FORMS**
- **ALL PRICES AND NOTATIONS MUST BE PRINTED IN INK OR TYPEWRITTEN; NO ERASURES ARE PERMITTED; ERRORS MAY BE CROSSED OUT AND CORRECTIONS PRINTED IN INK OR TYPEWRITTEN ADJACENT, AND MUST BE INITIALED IN INK BY PERSON SIGNING THE RFQ RESPONSE.**
- **BIDDERS THAT DO NOT COMPLY WITH THE REQUIREMENTS, AND/OR SUBMIT AN INCOMPLETE RFQ RESPONSE MAY BE SUBJECT TO DISQUALIFICATION AND THEIR RFQ RESPONSE REJECTED IN TOTAL.**
- **IF BIDDERS ARE MAKING ANY CLARIFICATIONS AND/OR AMENDMENTS, OR TAKING EXCEPTION TO ANY PART OF THIS RFQ, THESE MUST BE SUBMITTED IN THE EXCEPTIONS, CLARIFICATIONS, AND AMENDMENTS SECTION OF THIS EXHIBIT A – RFQ RESPONSE PACKET. THE DISTRICT, AT ITS SOLE DISCRETION, MAY ACCEPT AMENDMENTS/EXCEPTIONS, OR MAY DEEM THEM TO BE UNACCEPTABLE, THEREBY RENDERING THE RFQ RESPONSE DISQUALIFIED.**
- **BIDDERS SHALL NOT MODIFY DISTRICT LANGUAGE IN ANY PART OF THIS RFQ OR ITS EXHIBITS, NOR SHALL THEY QUALIFY THEIR RFQ RESPONSE.**



BIDDER INFORMATION AND ACCEPTANCE

1. The undersigned declares that all RFQ documents, including, without limitation, the RFQ, Addenda, and Exhibits, have been read and that the terms, conditions, certifications, and requirements are agreed to.
2. The undersigned is authorized to offer, and agrees to furnish, the articles and services specified in accordance with the RFQ documents.
3. The undersigned acknowledges acceptance of all addenda related to this RFQ.
4. The undersigned hereby certifies to the District that all representations, certifications, and statements made by the bidder, as set forth in this RFQ Response Packet and attachments, are true and correct and are made under penalty of perjury pursuant to the laws of California.
5. The undersigned acknowledges that the bidder is, and will be, in good standing in the State of California, with all the necessary licenses, permits, certifications, approvals, and authorizations necessary to perform all obligations in connection with this RFQ and associated RFQ documents.
6. It is the responsibility of each bidder to be familiar with all of the specifications, terms, and conditions and, if applicable, the site condition. By the submission of an RFQ response, the bidder certifies that if awarded a contract it will make no claim against the District based upon ignorance of conditions or misunderstanding of the specifications.
7. Patent indemnity: Contractors who do business with the District shall hold the District, its Directors, officers, agents, and employees, harmless from liability of any nature or kind, including cost and expenses, for infringement or use of any patent, copyright, or other proprietary right, secret process, patented or unpatented invention, article, or appliance furnished or used in connection with the contract or purchase order.
8. Insurance certificates are not required at the time of submission. However, by signing Exhibit A – RFQ Response Packet, the bidder agrees to meet the minimum insurance requirements stated in the RFQ. This documentation must be provided to the District prior to execution of an agreement by the District, and shall include an insurance certificate which meets the minimum insurance requirements, as stated in the RFQ.
9. The undersigned acknowledges that RFQ responses, in whole or in part, are NOT to be marked confidential or proprietary. The District may refuse to consider any RFQ response or part thereof so marked. RFQ responses submitted in response to this RFQ may be subject to public disclosure. The District shall not be liable in any way for disclosure of any such records.
10. The undersigned bidder hereby submits this RFQ response and binds itself on award to the District under this RFQ to execute in accordance with such award a contract and to furnish the bond or bonds

and insurance required by the RFQ. The RFQ, subsequent Addenda, bidder's Response Packet, and any attachments, shall constitute the Contract, and all provisions thereof are hereby accepted.

11. The undersigned acknowledges **ONE** of the following (please check only one box)*:

- ☐ Bidder is not an SBE and is ineligible for any bid preference; **OR**
- ☐ Bidder is an SBE or DVBE as described in the Contract Equity Program (CEP) and Equal Employment Opportunity (EEO) Guidelines, is requesting a 5% bid preference, and has completed the CEP and EEO forms at the hyperlink contained in the CEP and EEO section of this Exhibit A.

*If no box is checked, it will be assumed that the bidder is ineligible for bid preference and none will be given. For additional information on SBE bid preference, please refer to the Contract Equity Program and Equal Employment Opportunity Guidelines at the above referenced hyperlink.

Official Name of Bidder (exactly as it appears on Bidder's corporate seal and invoice): _____

Street Address Line 1: _____

Street Address Line 2: _____

City: _____ State: _____ Zip Code: _____

Webpage: _____

Type of Entity / Organizational Structure (check one):

- | | |
|--|--|
| <input type="checkbox"/> Corporation | <input type="checkbox"/> Joint Venture |
| <input type="checkbox"/> Limited Liability Partnership | <input type="checkbox"/> Partnership |
| <input type="checkbox"/> Limited Liability Corporation | <input type="checkbox"/> Non-Profit / Church |
| <input type="checkbox"/> Other: _____ | |

Jurisdiction of Organization Structure: _____

Date of Organization Structure: _____

Federal Tax Identification Number: _____

Department of Industrial Relations (DIR) Registration Number: _____

Primary Contact Information:

Name / Title: _____

Telephone Number: _____ Fax Number: _____

E-mail Address: _____

Street Address Line 1: _____

City: _____ State: _____ Zip Code: _____

SIGNATURE: _____

Name and Title of Signer (printed): _____

Dated this _____ day of _____ 20_____



BID FORM(S)

Cost shall be submitted on this Bid Form as is. The prices quoted shall not include Sales Tax or Use Tax; said tax, wherever applicable, will be paid by the District to the contractor, if licensed to collect, or otherwise directly to the State.

No alterations or changes of any kind to the Bid Form(s) are permitted. RFQ responses that do not comply may be subject to rejection in total. The cost quoted below shall be the cost the District will pay for the term of any contract that is a result of this RFQ process.

Quantities listed herein are annual estimates based on past usage and are not to be construed as a commitment. No minimum or maximum is guaranteed or implied.

Total of Schedule I \$ _____

Total of Schedule II \$ _____

TOTAL AMOUNT BID \$ _____

Payment Term Discount



SCHEDULE I - RESILIENT-SEATED GATE VALVES

Item	Est. Quantity for Two Years	Description	EBMUD Code	Unit Price (each)	Total
1	20 each	4" dia. gate valve, push-on, resilient-seat, non-rising stem, open right with operator nut	086105	\$_____	\$_____
2	60 each	6" dia. gate valve, push-on, resilient-seat, non-rising stem, open right with operating nut	086107	\$_____	\$_____
3	20 each	8" dia. gate valve, push-on, resilient-seat, non-rising stem, open right with operating nut	086109	\$_____	\$_____
4	40 each	12" dia. Gate valve, flanged, resilient-seat, non-rising stem, open right with operating nut	086312	\$_____	\$_____
5	250 each	4" dia. gate valve, flanged, resilient-seat, non-rising stem, open right with operating nut	086314	\$_____	\$_____
6	600 each.	6" dia. gate valve, flanged, resilient-seat, non-rising stem, open right with operating nut	086316	\$_____	\$_____
7	400 each	8" dia. gate valve, flanged, resilient-seat, non-rising stem, open right with operating nut	086318	\$_____	\$_____
8	60 each	6" dia. gate valve, push-on flanged, resilient-seat, non-rising stem, open right with operating nut	086507	\$_____	\$_____
9	20 each	8" dia. gate valve, push-on flanged, resilient-seat, non-rising stem, open right with operating nut	086509	\$_____	\$_____
TOTAL - SCHEDULE I				\$_____	*

*Enter total shown here on Bidding Summary Sheet



SCHEDULE II - BUTTERFLY VALVES

Item	Est. Quantity for Two Years	Description	EBMUD Code	Unit Price (each)	Total
1	50 each	12" dia. Butterfly valve, flanged, with operating nut open right	086144	\$_____	\$_____
2	20 each	16" dia. Butterfly valve, flanged, with operating nut open right	086151	\$_____	\$_____
<div style="text-align: right;">TOTAL - SCHEDULE II \$_____*</div>					

*Enter total shown here on Bidding Summary Sheet



BID FORM QUESTIONNAIRE

<u>Item</u>	<u>Size</u>	<u>Type</u>	<u>Assembled Weight Per Each -- lbs.</u>
Schedule I Manufacturer of Valves _____ (Identify by item number if more than one manufacturer used.)			
1	4"	Gate, push-on, resilient-seat	_____
2	6"	Gate, push-on, resilient-seat	_____
3	8"	Gate, push-on, resilient-seat	_____
4	12"	Gate, flanged, resilient-seat	_____
5	4"	Gate, flanged, resilient-seat	_____
6	6"	Gate, flanged, resilient-seat	_____
7	8"	Gate, flanged, resilient-seat	_____
8	6"	Gate, flanged, push-on, resilient-seat	_____
9	8"	Gate, flanged, push-on, resilient-seat	_____
Schedule II Manufacturer of Valves _____ (Identify by item number, if more than one manufacturer used.)			
1	12"	Butterfly, flanged	_____
2	16"	Butterfly, flanged	_____



REQUIRED DOCUMENTATION AND SUBMITTALS

All of the specific documentation listed below is required to be submitted with the Exhibit A – RFQ Response Packet. Bidders shall submit all documentation, in the order listed below, and clearly label each section of the RFQ response with the appropriate title (i.e. Table of Contents, Letter of Transmittal, Key Personnel, etc.).

1. **Sustainability Statement:** Contractors shall submit a statement regarding any sustainable or environmental initiatives or practices that they or their suppliers engage in. This information can be in relation to the specific products procured under this RFQ or in relation to the manufacture, delivery, or office practices of your firm.

If applicable, please also provide any information you have available on the below:

- a. Has your firm taken steps to enhance its ability to assess, track and address issues regarding Greenhouse Gas (GHG) Emissions in answer to recent legislations such as the [Buy Clean California Act](#)? If so, please attach any data you can on the embedded greenhouse gas emissions in the production and transport of the products and/or services which will be provided via this RFQ. If this is not available, please describe the approach you plan to take in order to gather and report this information in the future. For further information in this topic, please see: <http://www.ghgprotocol.org/scope-3-technical-calculation-guidance>

2. **Evidence of current NSF 60 and/or 61 certification**

3. **References**

- (a) Bidders must use the templates in the “References” section of this Exhibit A – RFQ Response Packet to provide references.
- (b) References should have similar scope, volume, and requirements to those outlined in these specifications, terms, and conditions.
 - Bidders must verify the contact information for all references provided is current and valid.
 - Bidders are strongly encouraged to notify all references that the District may be contacting them to obtain a reference.
- (c) The District may contact some or all of the references provided in order to determine Bidder’s performance record on work similar to that described in this RFQ. The District reserves the right to contact references other than those provided in the RFQ response.

4. **Exceptions, Clarifications, Amendments:**

- (a) The RFQ response shall include a separate section calling out all clarifications, exceptions, and amendments, if any, to the RFQ and associated RFQ documents, which shall be submitted with Bidder's RFQ response using the template in the "Exceptions, Clarifications, Amendments" section of this Exhibit A – RFQ Response Packet.
- (b) **THE DISTRICT IS UNDER NO OBLIGATION TO ACCEPT ANY EXCEPTIONS, AND SUCH EXCEPTIONS MAY BE A BASIS FOR RFQ RESPONSE DISQUALIFICATION.**

5. **Contract Equity Program:**

- (a) Every bidder must fill out, sign, and submit the appropriate sections of the Contract Equity Program and Equal Employment Opportunity documents located at the hyperlink contained in the last page of this Exhibit A. Special attention should be given to completing Form P-25, "Contractor Employment Data and Certification". Any bidder needing assistance in completing these forms should contact the District's Contract Equity Office at (510) 287-0114 prior to submitting an RFQ response.



REFERENCES

RFQ No. 1905 – Resilient Seated Gate And Butterfly Valves

Bidder Name: _____

Bidder must provide a minimum of five (5) references.

Company Name:	Contact Person:
Address:	Telephone Number:
City, State, Zip:	E-mail Address:
Services Provided / Date(s) of Service:	

Company Name:	Contact Person:
Address:	Telephone Number:
City, State, Zip:	E-mail Address:
Services Provided / Date(s) of Service:	

Company Name:	Contact Person:
Address:	Telephone Number:
City, State, Zip:	E-mail Address:
Services Provided / Date(s) of Service:	

Company Name:	Contact Person:
Address:	Telephone Number:
City, State, Zip:	E-mail Address:
Services Provided / Date(s) of Service:	

Company Name:	Contact Person:
Address:	Telephone Number:
City, State, Zip:	E-mail Address:
Services Provided / Date(s) of Service:	



EXCEPTIONS, CLARIFICATIONS, AMENDMENTS

RFQ No. 1905 – Resilient Seated Gate And Butterfly Valves

Bidder Name: _____

List below requests for clarifications, exceptions, and amendments, if any, to the RFQ and associated RFQ Documents, and submit with bidder's RFQ response. **The District is under no obligation to accept any exceptions and such exceptions may be a basis for RFQ response disqualification.**

Reference to:			Description
Page No.	Section	Item No.	
p. 23	D	1.c.	<i>Bidder takes exception to...</i>

*Print additional pages as necessary



CONTRACT EQUITY PROGRAM & EQUAL EMPLOYMENT OPPORTUNITY

The District's Board of Directors adopted the Contract Equity Program (CEP) to enhance equal opportunities for business owners of all races, ethnicities, and genders who are interested in doing business with the District. The program has contracting objectives, serving as the minimum level of expected contract participation for the three availability groups: white-men owned businesses, white-women owned businesses, and ethnic minority owned businesses. The contracting objectives apply to all contracts that are determined to have subcontracting opportunities, and to all contractors regardless of their race, gender or ethnicity.

All Contractors and their subcontractors performing work for the District must be Equal Employment Opportunity (EEO) employers, and shall be bound by all laws prohibiting discrimination in employment. There shall be no discrimination against any person, or group of persons, on account of race, color, religion, creed, national origin, ancestry, gender including gender identity or expression, age, marital or domestic partnership status, mental disability, physical disability (including HIV and AIDS), medical condition (including genetic characteristics or cancer), genetic information, or sexual orientation.

Contractor and its subcontractors shall abide by the requirements of 41 CFR §§ 60-1.4(a), 60-300.5(a) and 60-741.5(a). These regulations prohibit discrimination against qualified individuals based on their status as protected veterans or individuals with disabilities, and prohibit discrimination against all individuals based on their race, color, religion, sex, sexual orientation, gender identity, or national origin in the performance of this contract. Moreover, these regulations require that covered prime contractors and subcontractors take affirmative action to employ and advance in employment individuals without regard to race, color, religion, sex, national origin, protected veteran status or disability.

All Contractors shall include the nondiscrimination provisions above in all subcontracts.

Please include the required completed forms with your bid.

Non-compliance with the Guidelines may deem a bid non-responsive, and therefore, ineligible for contract award. Your firm is responsible for:

- 1) Reading and understanding the CEP guidelines.
- 2) Filling out and submitting with your bid the appropriate forms.

The CEP guidelines and forms can be found at the following direct link:

[Contract Equity Program Guidelines and Forms](#)

The CEP guidelines and forms can also be downloaded from the District website at the following link:

<http://ebmud.com/business-center/contract-equity-program/>

If you have questions regarding the Contract Equity Program please call (510) 287-0114.



EXHIBIT B

INSURANCE REQUIREMENTS

Insurance certificates are not required at the time of submission; however, by signing Exhibit A – RFQ Response Packet, the bidder agrees to meet the minimum insurance requirements stated in the RFQ. This documentation must be provided to the District, prior to award.

The following are the minimum insurance limits, required by the District, to be held by the Contractor performing on this RFQ:

INDEMNIFICATION AND INSURANCE

A. Indemnification

CONTRACTOR expressly agrees to defend, indemnify, and hold harmless the District and its Directors, officers, agents, and employees from and against any and all loss, liability, expense, claims, suits, and damages, including attorneys' fees, arising out of or resulting from CONTRACTOR's, its associates', employees', subcontractors', or other agents' negligent acts, errors or omissions, or willful misconduct, in the operation and/or performance under this Agreement.

B. Insurance Requirements

CONTRACTOR shall take out and maintain during the life of the Agreement all the insurance required in this section, and if requested shall submit certificates for review and approval by the District. The Notice to Proceed shall not be issued, and CONTRACTOR shall not commence work until such insurance has been approved by the District. The certificates shall be on forms approved by the District. Acceptance of the certificates shall not relieve CONTRACTOR of any of the insurance requirements, nor decrease the liability of CONTRACTOR. The District reserves the right to require CONTRACTOR to provide insurance policies for review by the District.

C. Workers Compensation Insurance

CONTRACTOR shall take out and maintain during the life of the Agreement Workers Compensation Insurance for all of its employees on the project. In lieu of evidence of Workers Compensation Insurance, the District will accept a Self-Insured Certificate from the State of California. CONTRACTOR shall require any subcontractor to provide it with evidence of Workers Compensation Insurance.

D. Commercial General Liability Insurance

CONTRACTOR shall take out and maintain during the life of the Agreement Automobile and General Liability Insurance that provides protection from claims which may arise from

operations or performance under this Agreement. If CONTRACTOR elects to self-insure (self-fund) any liability exposure during the contract period above \$50,000, CONTRACTOR is required to notify the District immediately. Any request to self-insure must first be approved by the District before the changed terms are accepted. CONTRACTOR shall require any subcontractor to provide evidence of liability insurance coverages.

The amounts of insurance shall be not less than the following:

\$2,000,000/Occurrence, Bodily Injury, Property Damage -- Automobile.

\$2,000,000/Occurrence, Bodily Injury, Property Damage -- General Liability.

The following coverages or endorsements must be included in the policy(ies):

1. The District, its Directors, officers, and employees are Additional Insureds in the policy(ies) as to the work being performed under the contract.
2. The coverage is *Primary and non-contributory* to any other applicable insurance carried by the District.
3. The policy(ies) covers *contractual liability*.
4. The policy(ies) is written on an *occurrence* basis.
5. The policy(ies) covers the District's Property in Consultant's care, custody, and control.
6. The policy(ies) covers *personal injury* (libel, slander, and wrongful entry and eviction) liability.
7. The policy(ies) covers *products and completed operations*.
8. The policy(ies) covers the use of *owned, non-owned* and hired automobiles.
9. The policy(ies) will not be canceled nor the above coverages/endorsements reduced without 30 days written notice to East Bay Municipal Utility District at the address above.

GENERAL REQUIREMENTS

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23. NEWS RELEASES
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25. COVENANT AGAINST GRATUITIES
26. RIGHTS AND REMEDIES OF THE DISTRICT
27. WAIVER OF RIGHTS
28. CONFIDENTIALITY

1. DEFINITIONS

The following terms shall be given the meaning shown, unless context requires otherwise or a unique meaning is otherwise specified.

- a. **"Change Order"** A Change Order is a written instrument used for modifying the contract with regards to the scope of Work, contract sum, and/or Contract Time. An approved Change Order is a Change Order signed by the District. An executed Change Order is a Change Order signed by both the District and the Contractor.

- b. **“Contract”** means the agreement between the District and Contractor as memorialized in the Contract Documents.
- c. **“Business Entity”** means any individual, business, partnership, joint venture, corporation, sole proprietorship, or other private legal entity recognized by statute.
- d. **“Buyer”** means the District’s authorized contracting official.
- e. **“Contract Documents”** comprise the entire agreement between the District and the Contractor and can include the District’s contract form if used, any purchase order, RFP, RFQ or Contractor response packet, and any addenda, appendices and District approved changes or amendments. The Contract Documents are intended to be complementary and include all items necessary for the Contractor’s proper execution and completion of the Work. Any part of the Work not shown or mentioned in the Contract Documents that is reasonably implied, or is necessary or usual for proper performance of the Work, shall be provided by the Contractor at its expense.
- f. **“Contractor”** means the Business Entity with whom the District enters into a contractual agreement. Contractor shall be synonymous with “supplier”, “vendor”, “consultant” or other similar term.
- g. **“Day”** unless otherwise specified, days are calendar days, measured from midnight to the next midnight.
- h. **“District”** means the East Bay Municipal Utility District, its employees acting within the scope of their authority, and its authorized representatives.
- i. **“Goods”** means off the shelf software and all types of tangible personal property, including but not limited to materials, supplies, and equipment.
- j. **“Project Manager”** shall be the District designated individual responsible for administering and interpreting the terms and conditions of the Contract Documents, for matters relating to the Contractor’s performance under the Contract with the District, and for liaison and coordination between the District and Contractor.
- k. **“Work”** means all labor, tasks, materials, supplies, and equipment required to properly fulfill the Contractor’s obligations as required in the Contract Documents.
- l. **“Work Day”** Unless otherwise specified, work day includes all days of the year except Saturdays, Sundays and District holidays.

2. BOND

- a. When required in the District’s bid or proposal solicitation documents, the Contractor to whom award is made shall furnish a good and approved faithful performance bond and/or payment bond within ten business days after receiving the forms for execution.
- b. The bonds shall be executed by a sufficient, admitted surety insurer (i.e.: as listed on website [http://interactive.web.insurance.ca.gov/webuser/idb_co_list\\$.startup](http://interactive.web.insurance.ca.gov/webuser/idb_co_list$.startup)) admitted to transact such business in California by the California Department of Insurance. After acceptance of the bond(s) by the District, a copy of the bond(s) will be

returned to the Contractor.

- c. If, during the continuance of the Contract, any of the sureties, in the opinion of the District, are or become irresponsible, the District may require other or additional sureties, which the Contractor shall furnish to the satisfaction of the District within ten days after notice. If the Contractor fails to provide satisfactory sureties within the ten-day period, the Contract may be terminated for cause under Article 18.

3. CONTRACTOR'S FINANCIAL OBLIGATION

The Contractor shall promptly make payments to all persons supplying labor and materials used in the execution of the contract.

4. SAMPLES OR SPECIMENS

The Contractor shall submit samples or prepare test specimens of such materials to be furnished or used in the work as the Project Manager may require.

5. MATERIAL AND WORKMANSHIP

- a. All goods and materials must be new and of the specified quality and equal to approved sample, if samples have been required. In the event any goods or materials furnished or services provided by the Contractor in the performance of the Contract fail to conform to the requirements, or to the sample submitted by the Contractor, the District may reject the same, and it shall become the duty of the Contractor to reclaim and remove the item promptly or to correct the performance of services, without expense to the District, and immediately replace all such rejected items with others conforming to the Contract. All work shall be done and completed in a thorough, workmanlike manner, notwithstanding any omission from these specifications or the drawings, and it shall be the duty of the Contractor to call attention to apparent errors or omissions and request instructions before proceeding with the work. The Project Manager may, by appropriate instructions, correct errors and supply omissions, which instructions shall be binding upon the Contractor as though contained in the original Contract Documents.
- b. All materials furnished and all Work must be satisfactory to the Project Manager. Work, material, or machinery not in accordance with the Contract Documents, in the opinion of the Project Manager, shall be made to conform.

6. DEFECTIVE WORK

The Contractor shall replace at its own expense any part of the work that has been improperly executed, as determined by the Project Manager. If Contractor refuses or neglects to replace such defective work, it may be replaced by the District at the expense of the Contractor, and its sureties shall be liable therefor.

7. WARRANTY OF TITLE

Contractor shall warrant to the District, its successors and assigns, that the title to the materials, supplies or equipment covered by the Contract, when delivered to the District or to its successors or assigns, is free from all liens and encumbrances.

8. WARRANTY OF FITNESS

Contractor hereby warrants that all materials furnished shall meet the requirements and conditions of the Contract Documents; shall be fit for the purposes intended and fulfill its design functions; be free of all patent and latent defects in design, materials and workmanship; and perform satisfactorily. It is understood and agreed that by acceptance of this warranty and the acceptance of the materials or supplies to be manufactured or assembled pursuant to these specifications, the District does not waive any warranty either expressed or implied in Sections 2312 to 2317, inclusive, of the Commercial Code of the State of California or any products liability of the Contractor as determined by any applicable decision of a court of the State of California or of the United States.

9. SAFETY AND ACCIDENT PREVENTION

In performing work under the Contract on District premises, Contractor shall conform to any specific safety requirements contained in the Contract or as required by law or regulation. Contractor shall take any additional precautions as the District may reasonably require for safety and accident prevention purposes. Any violation of such rules and requirements, unless promptly corrected, shall be grounds for termination of this Contract or Contractor's right to precede in accordance with the default provisions of the Contract Documents.

10. CHARACTER OF WORKFORCE

The Contractor shall employ none but skilled competent qualified personnel to perform the Work, and shall maintain discipline and order in the conduct of the Work at all times.

11. PREVAILING WAGES & DIR REGISTRATION

- a. Please see www.dir.ca.gov for further information regarding the below.
- b. All Contractors and Subcontractors of any tier bidding on, or offering to perform work on a public works project shall first be registered with the State Department of Industrial Relations (DIR) pursuant to Section 1725.5 of the Labor Code. No bid will be accepted nor any contract entered into without proof of the Contractor and Subcontractors' current registration with the DIR (LC § 1771.1).
- c. All public works projects awarded after January 1, 2015, are subject to compliance monitoring and enforcement by the DIR (LC § 1771.4) and all Contractors are required to post job site notices, "as prescribed by regulation" (LC § 1771.4).
- d. To the extent applicable, pursuant to Section 1773 of the Labor Code, the District has obtained from the Director of Industrial Relations of the State of California, the general prevailing rates of per diem wages and the general prevailing rates for holiday and overtime work in the locality in which the Work is to be performed, for each craft, classification, or type of worker needed to execute the contract. Pursuant to Section 1773.2 of the Labor Code, a copy of the prevailing wage rates is on file with the District and available for inspection by any interested party at www.dir.ca.gov.
- e. The holidays upon which such rates shall be paid shall be all holidays recognized in the collective bargaining agreement applicable to the particular craft, classification, or type

of worker employed on the Work.

- f. The Contractor shall post a copy of the general prevailing rate of per diem wages at the jobsite pursuant to Section 1773.2 of the Labor Code.
- g. Pursuant to Section 1774 of the Labor Code, the Contractor and any of its Subcontractors shall not pay less than the specified prevailing rate of wages to all workers employed in the execution of the contract.
- h. As set forth with more specificity in Section 1773.1 of the Labor Code, "per diem" wages include employer payments for health and welfare, pension, vacation, travel, subsistence and, in certain instances, apprenticeship or other training programs, and shall be paid at the rate and in the amount spelled out in the pertinent prevailing wage determinations issued by the Director of Industrial Relations.
- i. The Contractor shall, as a penalty to the State or the District, forfeit not more than the maximum set forth in Section 1775 of the Labor Code for each calendar day, or portion thereof, for each worker paid less than the prevailing rates for the work or craft in which the worker is employed under the contract by the Contractor or by any Subcontractor under him. The difference between the prevailing wage rates and the amount paid to each worker for each calendar day or portion thereof for which such worker was paid less than the stipulated prevailing wage rate shall be paid to such worker by the Contractor.
- j. The specified wage rates are minimum rates only and the District will not consider and shall not be liable for any claims for additional compensation made by the Contractor because of its payment of any wage rate in excess of the general prevailing rates. All disputes in regard to the payment of wages in excess of those specified herein shall be adjusted by the Contractor at its own expense.
- k. General prevailing wage determinations have expiration dates with either a single asterisk or a double asterisk. Pursuant to California Code of Regulations, Title 8, Section 16204, the single asterisk means that the general prevailing wage determination shall be in effect for the specified contract duration. The double asterisk means that the predetermined wage modification shall be paid after the expiration date. No adjustment in the Contract Sum will be made for the Contractor's payment of these predetermined wage modifications.

12. PAYROLL RECORDS & ELECTRONIC SUBMISSION

- a. The Contractor and each Subcontractor shall keep an accurate payroll record, showing the name, address, social security number, work classification, straight time and overtime hours worked each day and week, and the actual per diem wages paid to each journeyman, apprentice, worker or other employee employed in connection with the Work. The payroll records shall be certified and shall be available for inspection in accordance with the provisions of Section 1776 of the Labor Code. Certified payroll records shall be on the forms provided by the DIR or contain the same information required on the Department's form.

- b. The Contractor shall submit for each week in which any contract Work is performed a copy of all payroll records to the Project Manager. The Contractor shall be responsible for submission of copies of payroll records of all Subcontractors.
- c. The Contractor or Subcontractor shall certify the payroll records as shown on the DIR form. In addition, the records shall be accompanied by a statement signed by the Contractor or Subcontractor certifying that the classifications truly reflect the Work performed and that the wage rates are not less than those required to be paid.
- d. For public works projects awarded on or after April 1, 2015, or that are still ongoing after April 1, 2016, no matter when awarded, each Contractor and Subcontractor shall furnish the certified payroll related records as more specifically described above and in Labor Code section 1776 directly to the Labor Commissioner (see LC § 1771.4). These records shall be provided to the Labor Commissioner at least monthly or more frequently if required by the terms of the Contract. For exception on projects covered by collective bargaining agreements like a PLA, please see Labor Code section 1771.4.
- e. In the event of noncompliance with the requirements of Section 1776 of the Labor Code, the Contractor shall have 10 days in which to comply subsequent to receipt of written notice specifying in what respects such Contractor must comply with said Section. Should noncompliance still be evident after such 10-day period, the Contractor shall, as a penalty to the State or the District, forfeit the amount set forth in Section 1776 of the Labor Code for each calendar day, or portion thereof, for each worker, until strict compliance is effectuated. Upon the request of the Division of Apprenticeship Standards or the Division of Labor Standards Enforcement, such penalties shall be withheld from progress payments then due.
- f. The Contractor and every Subcontractor shall post at the workplace and comply with all required wage related workplace postings. Copies of the required postings may be downloaded or ordered electronically from the Department of Industrial Relations website at <http://www.dir.ca.gov/wpnodb.html>.

13. HOURS OF LABOR

Pursuant to the provisions of Sections 1810, et seq. of the Labor Code and any amendments thereof:

- a. Eight hours of labor constitutes a legal day's Work under the contract.
- b. The time of service of any worker employed upon the work shall be limited and restricted to eight hours during any one calendar day, and forty hours during any one calendar week except as provided in Article 13.iv below.
- c. The Contractor shall, as a penalty to the State or the District, forfeit the amount set forth in Section 1813 of the Labor Code for each worker employed in the execution of the contract by the Contractor or by any Subcontractor for each calendar day during which such worker is required or permitted to work more than eight hours in any calendar day and forty hours in any one calendar week in violation of this Article and the provisions of Labor Code, Sections 1810, et seq.

- d. Work performed by employees of the Contractor in excess of eight hours per day, and forty hours during any one calendar week, shall be permitted upon compensation for all hours worked in excess of eight hours per day at not less than one and one-half times the basic rate of pay.
- e. The Contractor and every Subcontractor shall keep an accurate record showing the name of and the actual hours worked each calendar day and each calendar week by each worker employed by him in connection with the Work; the record shall be kept open at all reasonable hours to the inspection of the District and to the Division of Labor Standards Enforcement of the State of California.

14. EMPLOYMENT OF APPRENTICES

- a. In the performance of the contract, the Contractor and any Subcontractor shall comply with the provisions concerning the employment of apprentices in Section 1777.5 of the Labor Code and any amendments thereof.
- b. In the event the Contractor or any Subcontractor willfully fails to comply with the aforesaid section, such Contractor or Subcontractor shall be subject to the penalties for noncompliance in Labor Code, Section 1777.7.

15. CHANGES

- a. Changes in the Work can only be made in writing signed by an authorized employee of the District. If the change causes an increase or decrease in the contract sum, or a change in the time for performance under the Contract, an adjustment may be made as determined by the Project Manager.
- b. The District reserves the right to make changes in the design of materials, equipment, or machinery, to make alterations or additions to or deviations or subtractions from the Contract and any specifications and drawings, to increase or decrease the required quantity of any item or portion of the Work or to omit any item or portion of the Work, as may be deemed by the Project Manager to be necessary or advisable and to order such extra work as may be determined by the Project Manager to be required for the proper execution and completion of the whole Work contemplated. Any such changes will be ordered in writing by the Project Manager. The determination of the Project Manager on all questions relating to changes, including extra work, shall be conclusive and binding.
- c. Prior to issuing an amendment or change to the Contract, the Project Manager may request that the Contractor submit a proposal covering the changes. Within 10 business days of receiving the request, the Contractor shall submit its proposal to the Project Manager of all costs associated with the proposed amendment or change and any request for an extension of Contract time. Contractor's proposal shall include detailed estimates with cost breakdowns, including labor, material, equipment, overhead, and profit. Labor shall be broken down into hours and rate per hour. If applicable, the proposal shall include a breakdown for off-site labor (including factory labor, engineering, etc.). The Contractor's proposal shall include an analysis of schedule impact when the Contractor is requesting an adjustment in contract time. The Contractor shall be responsible for any delay associated with its failure to submit its change proposal within the time specified. If the Project Manager decides not to issue an amendment or

change after requesting a proposal from the Contractor, the Contractor will be notified in writing. The Contractor is not entitled to reimbursement for Change Order preparation costs if the Contractor's proposal is not accepted by the Project Manager.

- d. If the Contractor agrees with the terms and conditions of the approved Change Order, the Contractor shall indicate its acceptance by signing the original copy and returning it to the Project Manager within 10 Work Days after receipt or with reasonable promptness and in such sequence as to not delay the Work or activities of the District or of separate contractors, whichever is sooner. If notice of any change is required to be given to a surety by the provisions of any bond, the Contractor shall provide notice and the amount of each applicable bond shall be adjusted separately. Payment in accordance with the terms and conditions set forth in the executed Change Order shall constitute full compensation for all Work included in the Change Order and the District will be released from any and all claims for direct, indirect, and impact expenses and additional time impact resulting from the Work. If the Contractor disagrees with the terms and conditions of the approved Change Order, the Contractor shall indicate specific areas of disagreement and return the approved Change Order to the Project Manager with a detailed written dispute. No payment will be made on the disputed work until the approved Change Order is returned to the Project Manager. However, whether or not the Contractor agrees with the terms and conditions of an approved Change Order, the Contractor shall immediately revise its sequence of operations as required to facilitate timely completion of the changed work and shall proceed with the revised work sequence.
- e. The Project Manager may, after having received a written cost quotation from the Contractor, order the Contractor, in writing, to proceed with the work prior to issuance of an approved Change Order through a change directive. The change directive will authorize the Contractor to proceed with the work subject to the cost quotation submitted by the Contractor. Within five days following receipt of the change directive, the Contractor shall submit a detailed change proposal documenting the amount of compensation. The Project Manager will review the change proposal and, at its option, will either issue an approved Change Order for the work or direct the Contractor to perform the work through Force Account. Until the method of compensation is determined and the approved Change Order is received, the Contractor shall keep full and complete time and material records of the cost of the ordered work and shall permit the Project Manager to have access to such records. An approved Change Order shall supersede any previously issued written change directive covering the same Work.

16. EFFECT OF EXTENSIONS OF TIME

The granting, or acceptance, of extensions of time to complete the Work or furnish the labor, supplies, materials or equipment, or any one of the aforementioned, will not operate as a release of Contractor or the surety on Contractor's faithful performance bond.

17. DELAYS

- a. The Contractor shall take reasonable precautions to foresee and prevent delays to the Work. When the Contractor foresees a delay event, and upon the occurrence of a delay event, the Contractor shall immediately notify the Project Manager of the probability or the actual occurrence of a delay, and its cause. With respect to all delays (compensable, excusable or inexcusable), the Contractor shall reschedule the Work and revise its

operations, to the extent possible, to mitigate the effects of the delay. Within 15 days from the beginning of a delay the Contractor shall provide the Project Manager with a detailed written description of the delay, its cause, its impact and the Contractor's mitigation plans. Failure to provide the notification required above waives the Contractor's right to any additional time or compensation resulting from the delay for whatever cause. The Project Manager will investigate the facts and ascertain the extent of the delay, and the Project Manager's findings thereon shall be final and conclusive, except in the case of gross error. An extension of time must be approved by the Project Manager to be effective, but an extension of time, whether with or without consent of the sureties, shall not release the sureties from their obligations, which shall remain in full force until the discharge of the contract.

- b. For inexcusable delays (delays caused by circumstances within the Contractor's control, the control of its subcontractors or supplies of any tier, or within the scope of the Contractor's contract responsibilities) the Contractor shall not be entitled to an extension of time or additional compensation for any loss, cost, damage, expense or liability resulting directly or indirectly from the inexcusable delay.
- c. For excusable delays (delays to completion of the Work within the time limits set forth in the Contract Documents directly caused by events beyond the control of both the Contractor and the District, which delay is not concurrent with an inexcusable delay and which could not have been avoided by the Contractor through reasonable mitigation measures).
- d. For compensable delays (delays to completion of the Work within the time limits set forth in the Contract Documents that could not be avoided by Contractor mitigation, caused directly and solely by the District or by causes within the exclusive control of the District, and which were not concurrent with any other type of delay) the Project Manager will grant the Contractor an extension of the time to perform under the Contract and compensation in an amount that represents the Contractor's actual direct costs incurred as a direct result of the compensable delay. The Contractor may recover its direct costs only and may not recover (and waives) all other types of indirect, consequential, special and incidental damages.
- e. For concurrent delays (two or more independent causes of delay directly preventing the Contractor from completing the Work within the time limits set forth in the Contract Documents where the delays occur at the same time during all or a portion of the delay period being considered, and where each of the delays would have caused delay to the Contractor even in the absence of any of the other delays, and none of the delays could have been avoided by Contractor mitigations) the following rules apply:
 - i. One or more of the concurrent delays are excusable or compensable, then the period of concurrent delay will be treated as an excusable delay; and
 - ii. All of the concurrent delays are inexcusable, then the period of concurrent delay will be inexcusable.

18. TERMINATION

- a. Termination by the District for Cause:

- i. District may terminate the Contractor's right to proceed under the Contract, in whole or in part, for cause at any time after the occurrence of any of the following events, each of which constitutes a default:
 - 1. The Contractor becomes insolvent or files for relief under the bankruptcy laws of the United States.
 - 2. The Contractor makes a general assignment for the benefit of its creditors or fails to pay its debts as the same become due.
 - 3. A receiver is appointed to take charge of the Contractor's property.
 - 4. The Contractor fails to supply skilled supervisory personnel, an adequate number of properly skilled workers, proper materials, or necessary equipment to prosecute the Work in accordance with the Contract Documents.
 - 5. The Contractor fails to make progress so as to endanger performance of the Work within the contractually required time.
 - 6. The Contractor disregards legal requirements of agencies having jurisdiction over the Work, the Contractor, or the District.
 - 7. The Contractor fails to provide the District with a written plan to cure a District identified default within five business days after the District's request for a plan to cure; the District does not accept the Contractor's plan for curing its default; or the Contractor does not fully carry out an accepted plan to cure.
 - 8. The Contractor abandons the Work. Abandonment is conclusively presumed when the District requests a written plan to cure a default and the Contractor does not submit the plan within five business days of the District's request.
 - 9. The Contractor materially fails to meet its obligations in accordance with the Contract Documents.
 - 10. The Contractor is in default of any other material obligation under the Contract Documents.
- ii. If any of the above events occur, the District may, in its discretion, require that the Contractor submit a written plan to cure its default, which plan must be provided to the District within 5 business days of the request and must include a realistic, executable plan for curing the noted defaults.

- iii. Upon any of the occurrences referred to in Article 18.a.i. above, the District may, at its election and by notice to the Contractor, terminate the Contract in whole or in part; accept the assignment of any or all of the subcontracts; and then complete the Work by any method the District may deem expedient. If requested by the District, the Contractor shall remove any part or all of the Contractor's materials, supplies, equipment, tools, and machinery from the site of the Work within seven days of such request; and, if the Contractor fails to do so, the District may remove or store, and after 90 days sell, any of the same at the Contractor's expense.
- iv. No termination or action taken by the District after termination shall prejudice any other rights or remedies of the District provided by law or by the Contract Documents.
- v. Conversion: If, after termination for other than convenience, it is determined that the Contractor was not in default or material breach, or that the default or material breach was excusable, the rights and obligations of the parties shall be the same as if the termination had been issued for convenience pursuant to Article 18.b. below.

b. Termination by the District for Convenience:

- i. The District may, at its option, and for its convenience, terminate the Contract at any time by giving written notice to the Contractor specifying the effective date of termination. Upon such termination, the Contractor agrees to comply with the notice and further agrees to waive any claims for damages, including loss of anticipated profits, on account of the termination; and, as the sole right and remedy of the Contractor, the District shall pay the Contractor as set forth below.
- ii. Upon receipt of a notice of termination for convenience, the Contractor shall, unless the notice directs otherwise, do the following:
 - 1. Immediately discontinue its performance of the Contract to the extent specified in the notice.
 - 2. Place no further orders or subcontracts for materials, equipment, services, or facilities, except as may be necessary for completion of a portion of the Work that is not discontinued or that is necessary for an orderly cessation of the Work.
 - 3. Promptly cancel, on the most favorable terms reasonably possible, all subcontracts to the extent they relate to the performance of the discontinued portion of the Work.
 - 4. Thereafter, do only such Work as may be necessary to preserve and protect Work already in progress and to protect materials,

plants, and equipment in transit to or on the site of performance.

- iii. Upon such termination for convenience, the District will pay to the Contractor the sum of the following:
 - 1. The amount of the contract sum allocable to the portion of the Work properly performed by the Contractor as of the effective date of termination, less sums previously paid to the Contractor.
 - 2. Previously unpaid costs of any items delivered to the project site that were already fabricated for subsequent incorporation into the Work.
 - 3. Any proven losses with respect to materials and equipment directly resulting from the termination.
 - 4. Reasonable demobilization costs.
- iv. The above reimbursement is the sole and exclusive remedy to which the Contractor is entitled in the event the contract is terminated for convenience; and the Contractor expressly waives any other claims, damages, demands, compensation or recovery related to this contract or project. The Contractor agrees to sign a general release incorporating this waiver.
- c. Effect of Termination: Upon termination, the obligations of the Contract shall continue as to portions of the Work already performed and, subject to the Contractor's obligations under Article 18.b.ii, as to bona fide obligations assumed by the Contractor prior to the date of termination.
- d. Force Majeure: If the contract is suspended or terminated by the District because Contractor's performance is prevented or delayed by an event including an irresistible, superhuman cause, or by the act of public enemies of the State of California or of the United States ("Force Majeure"), the Contractor will be paid for Work performed prior to the Force Majeure event at either (i) the unit prices named in the Contract; or (ii) in the event no unit prices are named, a sum equal to the percentage of the total contract amount that matches the percentage of the total contract Work performed prior to the Force Majeure event.

19. DAMAGES

All losses or damages to material or equipment to be furnished pursuant to the Contract Documents occurring prior to receipt and final acceptance of the Work shall be sustained by the Contractor. The Contractor shall sustain all losses arising from unforeseen obstructions or difficulties, either natural or artificial, encountered in the prosecution of the Work, or from any action of the elements prior to final acceptance of the work, or from an act or omission on the part of the Contractor not authorized by the Contract Documents.

20. ORDER OF PRECEDENCE

- a. In the case of conflicts, errors, or discrepancies in any of the Contract Documents, the order of precedence is as follows. Within the same order of precedence, specific requirements shall take precedence over general requirements.
 - i. Approved Change Orders.
 - ii. Addenda.
 - iii. RFQ or RFP.
 - iv. Referenced Standard Specifications and Drawings.
 - v. Contractor's Response Packet.
- b. With reference to drawings:
 - i. Numerical dimensions govern over scaled dimensions.
 - ii. Detailed drawings govern over general drawings.
 - iii. Addenda/Change Order drawings govern over contract drawings.
 - iv. Contract drawings govern over standard drawings.
 - v. Notes apply only to the drawing where the notes appear, unless classified as "typical" or intended to apply elsewhere in which case they apply to all drawings where the conditions or circumstance noted occurs.
 - vi. Typical details apply to all drawings unless a specific different detail is shown.

21. INDEMNIFICATION/RESPONSIBILITY

- a. Contractor shall indemnify, keep and save harmless the District and each of its directors, officers, agents and employees against any and all suits, claims or actions arising out of any of the following:
 - i. Any injury to persons or property that may occur, or that may be alleged to have occurred, arising from the performance or implementation of this Contract; or
 - ii. Any allegation that materials or services developed, provided or used for this Contract infringe or violate any copyright, trademark, patent, trade secret, or any other intellectual-property or proprietary right of any third party.
- b. Contractor further agrees to defend any and all such actions, suits or claims and pay all charges of attorneys and all other costs and expenses of defenses as they are incurred. If any judgment is rendered, or settlement reached, against the District or any of the other agencies or individuals enumerated above in any such action, Contractor shall, at its expense, satisfy and discharge the same.

c. This indemnification shall survive termination or expiration of the Contract.

22. PROHIBITION OF ASSIGNMENT

The Contractor shall not assign, transfer, or otherwise dispose of any of its rights, duties or obligations under this Contract.

23. NEWS RELEASES

The Contractor, its employees, subcontractors, and agents shall not refer to the District, or use any logos, images, or photographs of the District for any commercial purpose, including, but not limited to, advertising, promotion, or public relations, without the District's prior written consent. Such written consent shall not be required for the inclusion of the District's name on a customer list.

24. SEVERABILITY

Should any part of the Contract be declared by a final decision by a court or tribunal of competent jurisdiction to be unconstitutional, invalid or beyond the authority of either party to enter into or carry out, such decision shall not affect the validity of the remainder of the Contract, which shall continue in full force and effect, provided that the remainder of the Contract can be interpreted to give effect to the intentions of the parties.

25. COVENANT AGAINST GRATUITIES

The Contractor warrants that no gratuities (in the form of entertainment, gifts, or otherwise) were offered or given by the Contractor, or any agent or representative of the Contractor, to any officer or employee of the District with a view toward securing the Contract or securing favorable treatment with respect to any determinations concerning the performance of the Contract. For breach or violation of this warranty, the District shall have the right to terminate the Contract, either in whole or in part, and any loss or damage sustained by the District in procuring on the open market any items which Contractor agreed to supply shall be borne and paid for by the Contractor. The rights and remedies of the District provided in this clause shall not be exclusive and are in addition to any other rights and remedies provided by law or in equity.

26. RIGHTS AND REMEDIES OF THE DISTRICT

The rights and remedies of the District provided herein shall not be exclusive and are in addition to any other rights and remedies provided by law or under the Contract.

27. WAIVER OF RIGHTS

Any action or inaction by the District or the failure of the District on any occasion, to enforce any right or provision of the Contract, shall not be construed to be a waiver by the District of its rights and shall not prevent the District from enforcing such provision or right on any future occasion. Rights and remedies are cumulative and are in addition to any other rights or remedies that the District may have at law or in equity.

28. CONFIDENTIALITY

Contractor agrees to maintain in confidence and not disclose to any person or entity, without the District's prior written consent, any trade secret or confidential information, knowledge or data relating to the products, process, or operation of the District. Contractor further agrees to maintain in confidence and not to disclose to any person or entity, any data, information, technology, or material developed or obtained by Contractor during the term of the Contract. The covenants contained in this paragraph shall survive the termination of this Contract for whatever cause.

EXHIBIT D – SPECIFICATIONS FOR RESILIENT SEATED GATE AND BUTTERFLY VALVES

EBMUD SPECIFICATION 15102.5 MANUFACTURE OF RESILIENT-SEATED GATE VALVES

PART 1 - GENERAL

1.01 DESCRIPTION

- A. This section covers the manufacture of resilient-seated, non-rising stem gate valves, 12-inches nominal size and smaller used for buried potable water service.

PART 2 - PRODUCTS

2.01 GENERAL

- A. **Valves shall comply with AWWA Standard C 509-15 as modified under Article 2.02 of this specification. This includes valve components that are manufactured outside of the United States.**
- B. Valve designations, as stated in STATEMENT OF WORK, Section C, item No. 12 of the Special Requirements and on the Bidding Sheets shall be paint-stenciled on each valve.

2.02 MODIFICATIONS TO AWWA STANDARD C 509-15 – AWWA STANDARD C509-15 APPLIES, EXCEPT AS MODIFIED IN THIS ARTICLE 2.02.

Section 1 General

Section 1.1 - Scope

Revise the first paragraph: This standard covers iron-body, resilient-seated gate valves with non-rising stems (NRS) and epoxy-lined waterways for water service having temperature range of 33° - 125° F.

Add:

1.1.64 Water Chemistry

Valves covered by this Specification will be subjected to water that promotes galvanic corrosion under some conditions. Materials and coatings shall be suitable for soft water (less than 50 ppm total dissolved solids) with pH from 7.0 to 9.5 and maximum l chloramines residual of 3.5 ppm (an ammonia-chlorine mixture). The

presence of chloramines in the water shall not have any effect on the manufacturer's warranty.

Section 4.1 - Data to be supplied by manufacturer.

Delete the title and text and substitute the following:

Section 4.1 - Data to be supplied by the Contractor.

4.1.1 Catalog Data

For each size and design of valve furnished, the Contractor shall supply one set of catalog data, including illustrations and a parts schedule, giving the materials and dimensions of parts in sufficient detail to serve as a guide in the assembly and disassembly of the valve, and in ordering repair parts.

4.1.2 Weight Information

The Contractor shall furnish a statement of the total net assembled weight for each size of valve being supplied.

4.1.3 Assembly Drawings

The Contractor shall submit for approval by the District five sets of manufacturer's assembly drawings, showing the principal dimensions, construction details, and materials used for all parts of the valve. ASTM materials designations shall be included for all parts. All work shall be done, and all valves shall be furnished in accordance with these drawings, after they have been approved by the District.

4.1.4 NSF/ANSI 61 Certification-Materials in Contact with Drinking Water

A letter of certification shall be provided certifying that shall:

1. All materials, equipment, or products that will be in contact with drinking water (potable water) shall be tested and certified as meeting the specifications of NSF/ANSI 61 Standard in accordance with California Code of Regulations, Title 22, Section 64591. Examples include, but are not limited to, valves, pumps, flow meters, protective materials (coatings, linings, liners), joining and sealing materials, pipes, tanks, pipe fittings, filters, cleaning chemicals, and lubricants.
2. All materials, equipment, or products that will be in contact with drinking water (potable water) and may contain lead shall be tested and certified as "lead-free" per California Health and Safety Code Section 116875. Until

January 4, 2014, acceptable certification for “lead-free” is NSF 61 Annex G or NSF 372.

Section 4.2 - Materials

4.2.4.5 Delete the text and substitute the following:

All valve brass and bronze components and accessories that have contact with water shall be made of copper alloys containing no more than 16% zinc. Components made of UNS 87850 (Eco Brass), which contains more than 16% zinc, is an exception and is acceptable. Stainless steel or Monel may be substituted for bronze at the option of the manufacturer.

4.2.4.5 Copper alloys, with exception of UNS 87850 (Eco Brass), which contain more than 16 percent zinc shall not be used.

4.2.4.11 Coatings. Delete text and substitute the following:

Coatings shall be per Section 4.5.2.

4.2.4.12 Elastomers. Add:

7. Elastomers in water contact, including resilient seats, shall be EPDM (ethylene-propylene diene monomer) specifically formulated to resist chloramines or Viton (Fluorocarbon). Other materials with chloramine resistance documentation may be submitted for approval. SBR (Styrene Butadiene) materials will not be permitted.

Section 4.3 - General Design

4.3.1 Structural Design

Add: Unless otherwise specified, valves will be installed vertically.

Section 4.4 - Detailed Design

4.4.1.3 Body seating surfaces: Add: The seating surfaces shall be accurately and smoothly cast or machined.

4.4.1.3.2 Delete and substitute the following: A non-ferrous surface shall have a corrosion resistance equivalent to or better than bronze.

4.4.1.3.3 Delete and substitute the following: A ferrous surface shall be coated with epoxy per 4.5.2.

4.4.1.4.1 Flanged ends. Add:

7. Body and bonnet flange faces shall be machine finished. Flanged valves shall be flat faced – without projection or raised face. Face shall be smooth or may have a serrated finish of approximately 32 serrations per inch, approximately 1/64 inch deep. Serrations may be either spiral or concentric. Flange faces shall be flat or slightly convex, but not exceeding .006" convexity, measured at the sealing surfaces with a feeler gauge and straight edge. Concavity shall not exceed .002" measured in the same manner. The back of the flanges shall be smooth and parallel to the front face. Flange bolt holes shall be spot faced if flange fillets interfere with bolt heads or nuts. Flange face inspection is a receipt inspection and will be performed on as-supplied flange faces. AWWA C509-15 tolerances for the back of flanges are required.

4.4.1.4.2 Mechanical joint ends. Delete.

4.4.1.4.3 Valve Ends for PVC Pipe. Valves when required to be furnished for use with PVC pipe are designated on the bidding sheet as push-on. The dimensions for the ring groove shall be as follows, with tolerance being +/-:

<u>VALVE SIZE</u>	<u>RING GROOVE DIMENSION</u>	<u>TOLERANCE</u>
4"	5.64 in.	".040
6"	7.74 in.	".040
8"	9.98 in.	".050

4.4.1.4.4 Tapping-valve ends. Delete.

Table -6 – Copper alloys for stem, nut, and copper alloy gates.

Delete the following unacceptable cooper alloys: UNS 86200, 86500 and 86700. (These alloys contain greater than 16% zinc.)

4.4.4 Bolting

Delete the text and substitute the following:

4.4.4.1.1 Bolts and nuts. All bolts, studs, and cap screws used on the body and bonnet shall be of stainless steel, **type 304 or 316.**

4.4.5.5 OS&Y Stems. Delete.

4.4.6.2 OS&Y Valves. Delete.

4.4.6.3 Gland bolts and nuts. Delete text and substitute the following: Bolting and rustproofing shall conform to the revised Section 4.4.4 of this Specification.

4.4.7.4 Direction of opening. Delete and substitute the following:

Stem nut shall turn clockwise to open the valve (open right).

Section 4.5 – Fabrication

4.5.2 Coating. Delete text and substitute the following:

See Section 2.03 of this specification for painting and coating.

Section 5 Verification

Add:

5.1.1.1 Hydrostatic Test - Delete and substitute the following:

For each valve, a hydrostatic pressure equal to twice the rated working pressure of the valve shall be applied with both ends bulk headed and the gate open; this test shall show no leakage through the metal or flange joints. Subsequently, a test shall be made at the rated working pressure, applied (through bulkheads) alternately to each side of the closed gate with the opposite side open for inspection; this second test shall show no leakage through the metal or at flange joints, or past the seat.

5.1.2.3 Seat Test - Add the following after the last sentence:

The maximum operating torque required to seat and unseat each valve shall not exceed 150 ft-lbs. when subjected to the rated working pressure of the valve.

Section 6 Delivery

Section 6.2 - Packing and Shipping

6.2.1.2 **Add: All flanged valves shall be shipped with full face, easily removable protectors in place.** The protectors shall prevent the entrance of dust and debris into the valve body during shipping and storage.

- 6.2.1.3 Add: All valves shall be delivered either on pallets or in containers so that offloading at destination can be accomplished conveniently and safely by forklift. Preparation for shipment shall prevent damage to flange faces.

Section 6.3 - Affidavit of Compliance

Add: Affidavit is required.

2.03 PAINTING AND COATING

Delete existing text and substitute the following:

Internal coatings shall contain no lead or coal tar. Coatings applied to surfaces that contact the water MUST BE NSF-61 APPROVED. Coating repairs shall be done using the repair coating recommended by the coating manufacturer for the specific Fusion Bonded Epoxy used to coat the valve. NSF-61 approval is also required.

The internal and external surfaces of the valve body and bonnet shall be coated with a fusion-bonded epoxy (FBE) in accordance with the requirements of AWWA Standard C550-13. The minimum dry thickness of the coating shall be 8 mils (including flange faces).

FBE used on internal surfaces in contact with the water shall be tested and certified as meeting the specifications of NSF/ANSI 61 Standard in accordance with California Code of Regulations, Title 22, Section 64591.

Surface preparation: Prior to coating, surfaces shall receive a surface preparation equivalent to SSPC SP-10 (near-white metal).

Coating tests: The finished internal and external coating will be inspected by the District for holidays and for coating thickness with the exception of sharp corners. Coating thickness shall be at least 8 mils. The internal coating shall be free of holidays.

END OF SECTION

EBMUD SPECIFICATION 15103.5
MANUFACTURE OF BUTTERFLY VALVES - 16" AND SMALLER

PART 1 - GENERAL

1.01 DESCRIPTION

- A. This section covers the manufacture of flanged, cast iron, Ethylene Propylene Diene Terpolymer Rubber (EPDM)-seated butterfly valves, 16 inches nominal diameter and smaller for buried potable water service. EPDM used **MUST BE** of the type specifically formulated to resist chloramines.
- B. Information on quantity required, size of valve, type of body, operator, coatings, etc., is listed in Special Requirements and/or the Bidding Sheets.

1.02 QUALITY ASSURANCE

- A. Required experience:
 - 1. **The bidder shall submit evidence, with his bid, that the valve manufacturer has at least three (3)-years experience preceding the bid opening date in the manufacture of rubber-seated butterfly valves for waterworks service.** (See Bidder's Reference and Statement of Experience.)

PART 2 - PRODUCTS

2.01 GENERAL

- A. **Valves shall comply with AWWA Standard C504-15 as modified in Article 2.03 of this section. This includes valve components that are manufactured outside of the United States.**
- B. All valves shall be Class 150 B, flanged (short body), with open right (clockwise) 2" nut operator, unless otherwise noted.
- C. Valve designations, as stated in STATEMENT OF WORK, Section C, item No. 12 of the Special Requirements and on the Bidding Sheets shall be paint-stenciled on each valve.
- D. Shipping and Storage

Butterfly valves shall be stored and shipped with the disc positioned so that it does not contact the seat and does not protrude out beyond the flanges.

All flanged valves shall be shipped with full face, easily removable protectors in place. The protectors shall prevent the entrance of dust and debris into the valve body during shipping and storage.

2.02 DATA TO BE FURNISHED BY BIDDER

A. Catalog Data

For each size and design of valve furnished, the Contractor shall supply one set of catalog data, including illustrations and a parts schedule, giving the materials and dimensions of parts in sufficient detail to serve as a guide in the assembly and disassembly of the valve, and in ordering repair parts.

B. Weight Information

The Contractor shall furnish a statement of the total net assembled weight for each size of valve being supplied.

C. Assembly Drawings

The Contractor shall submit for approval by the District five sets of certified drawings, showing the principal dimensions (including the dimensions of the clearance required for the valve disc), construction details, and materials used for all parts of the valve. ASTM materials designations shall be included for all parts. All work shall be done, and all valves shall be furnished in accordance with these drawings, after they have been approved by the District.

D. NSF/ANSI 61 Certification

1. All materials, equipment, or products that will be in contact with drinking water (potable water) shall be tested and certified as meeting the specifications of NSF/ANSI 61 Standard in accordance with California Code of Regulations, Title 22, Section 64591. Examples include, but are not limited to, valves, pumps, flow meters, protective materials (coatings, linings, liners), joining and sealing materials, pipes, tanks, pipe fittings, filters, cleaning chemicals, and lubricants.
2. All materials, equipment, or products that will be in contact with drinking water (potable water) and may contain lead shall be tested and certified as "lead-free" per California Health and Safety Code Section 116875. Until January 4, 2014, acceptable certification for "lead-free" is NSF 61 Annex G or NSF 372.

2.03 MODIFICATIONS TO AWWA STANDARD C504-15 – AWWA STANDARD C504-10 APPLIES, EXCEPT AS MODIFIED IN THIS ARTICLE 2.03

SECTION 1 - GENERAL

Sec. 1.1 - Scope

Add the following after the first sentence: Valves shall be suitable for installation in any position and for flow in either direction. When closed, disc shall seal against pressure from either side.

SECTION 4.1 - MATERIALS

Sec. 4.1.2 - Physical and Chemical Properties

Add: Valves covered by this Specification will be subjected to water that promotes galvanic corrosion. Materials and coatings shall be suitable for soft water (less than 50 ppm total dissolved solids) with pH from 7.0 to 9.5 and maximum total chlorine residual of 3.5 ppm (an ammonia-chlorine mixture). The presence of chloramines in the water shall not have any effect on the manufacturer's warranty.

Sec. 4.1.3 - Tests

Add: The manufacturer shall provide a certification of compliance with each shipment that all test requirements and procedures of these specifications have been met.

SECTION 4.2 - GENERAL DESIGN

Sec. 4.2.1 - Valve Bodies

Add: 4.2.1.7 Body Disc Stop

Use of internal body disc stop is prohibited.

Sec. 4.2.2 - End Flanges

Add: 4.2.2.3 Flange Facing

Flanged valves shall be flat faced - without projection or raised face. Face shall be smooth or may have a serrated finish of approximately 32 serrations per inch, approximately 1/64 inch deep. Serrations may be either spiral or concentric.

Flange faces shall be machined flat within .012", as measured with a straight edge and feeler gauge across the flange area between the bolt holes and bore of the valve body.

The back of the flanges shall be smooth and parallel to the front face. Flange bolt holes shall be spot faced if flange fillets interfere with bolt heads or nuts.

Sec. 4.2.3 - Valve Shafts

4.2.3.2 Connections

Add: Valve shafts shall be securely attached to the valve disc by means of keys, dowel pins or taper pins, by set screws locked in place bearing on a flat on the shaft; or by through bolts with locking nuts. Use of fasteners screwed in the disc is not acceptable. Torque connection with a hexagonal shaft driving through a hexagonal hole in the disc is acceptable.

Sec. 4.2.4 - Valve Discs

4.2.4.1 Disc Material

Revise: Fabricated steel discs are not acceptable.

Sec. 4.2.5 - Valve Seats

4.2.5.2.1 Add the following after the first sentence: Rubber seats may be Viton or EPDM. (See Section 4.1.2 of this specification for description of water quality.) SBR (Styrene Butadiene) elastomers are not permitted due to their poor chloramine chemical resistance.

4.2.5.2.2 Add the following after the first sentence:

Use of cartridge-type seats is prohibited.

4.2.5.3 Mating Surfaces

Revise: 4.2.5.3.1 Bronze or alloy cast iron mating seat surfaces are not acceptable.

Sec. 4.2.8 - Valve Actuators

4.2.8.1.1 Torque rating

Revise: The rated torque capability of each actuator shall be sufficient to seat, unseat and rigidly hold, in any intermediate position, the valve disc it controls under a differential pressure of 150 psi and a pipeline velocity of 16 feet per second.

4.2.8.1.4 Stop Limiting Devices

Add: Adjustable mechanical stop-limiting devices shall be accurately set and locked by the valve manufacturer.

Add: 4.2.8.1.14 Position Indicators

Valves shall not have a position indicator.

4.2.8.6 Manual Actuators

4.2.8.3.5 Delete the second sentence and substitute with following: Buried service valves shall open with a clockwise rotation of the stem nut (open right).

SECTION 4.4 - COATINGS

Sec. 4.4.1 Interior and exterior surfaces

Delete the entire text and substitute the following:

All ferrous metal parts of the valve assembly including actuator (except those made of stainless steel), excluding the seating edge of the disc, and finished surfaces, shall be coated in accordance with paragraphs 4.4.2 and 4.4.3 below. Prior to coating, surfaces shall receive a surface preparation equivalent to SSPC SP-10 (near-white metal). Surface profiles prior to coating shall be 1.5-3 mils or in accordance with manufacturer's technical data. The finished internal and external coating will be inspected by the District for holidays and for coating thickness. Coating thickness shall be at least 8 mils. The internal coating shall be free of holidays.

4.4.2 Flange faces shall be coated with a rust inhibitor (LPS Research Laboratories LPS-3 or equal) or other easily removable protective coating after application and curing of all other coatings. Epoxy coatings in accordance with paragraph 4.4.3 (below) are also acceptable on flange faces, provided the minimum thickness is 8 mils.

4.4.3 Internal and external surfaces (excluding flange faces) shall be coated with one of the following:

- High Build Epoxy per EBMUD Section 09803.5;
- 8 mils minimum thickness epoxy coating in accordance with AWWA C550-13.

Coatings shall contain no lead or coal tar. Coatings applied to surfaces that contact the water MUST BE NSF-61 APPROVED.

4.4.4 Repair of Coating Defects

All defects in film thickness or continuity shall be repaired at the expense of the Contractor. The extent of the repair work required to correct defects found upon inspection after delivery will be determined by the Engineer. Application of the repair coating, including surface preparation, shall be the same as that specified for over-coating an old or fully-cured coating. All coating repair shall be in accordance with the manufacturer's specifications for coating repair.

SECTION 6.3 – AFFIDAVIT OF COMPLIANCE

Add: Certification is required.

END OF SECTION

EBMUD SPECIFICATION 09803.5
BUTTERFLY VALVES QUALITY
CONTROL FOR HIGH-BUILD EPOXY COATING

PART 1 - GENERAL

1.01 SUMMARY

- A. Work included: High-build epoxy coatings to protect ferrous metal surfaces from corrosion where specified.

1.02 REFERENCES

- A. SSPC Vol. 1, Steel Structures Painting Manual, Volume 1, Good Painting Practice.
- B. SSPC Vol. 2, Steel Structures Painting Manual, Volume 2, Systems and Specifications.
 - 1. SSPC-SP 10 Near White Blast Cleaning
 - 2. SSPC-PA 1 Shop, Field, & Maintenance Painting

1.03 QUALITY ASSURANCE

- A. Qualifications:
 - 1. Applicator: Regularly engaged in application of similar coatings for at least two years immediately prior to this work.
 - 2. Workers: Experienced and knowledgeable in preparation for and application of high performance industrial coatings.
- B. Workmanship: Conform to standards and recommendations of SSPC Vol 1.
- C. Weather conditions:
 - 1. Do not abrasive blast when ambient temperature is less than 5°F above dew point.
 - 2. Apply coatings only when conditions are within the limits prescribed by the manufacturer but, in any case, do not apply coating when:
 - a. Metal temperature is less than 50°F.
 - b. Ambient temperature is less than 5°F above dew point.

- c. Relative humidity is greater than 85 percent.
- d. Ambient temperature is below 40°F or expected to drop below 40°F within 6 hours.

PART 2 - PRODUCTS

2.01 COATING SYSTEM MATERIALS

- A. **Acceptable products used on interior surfaces must be NSF-61 approved.**
- B. Thinners and solvents as specified by the coating system manufacturer.

PART 3 – EXECUTION

3.01 PREPARATION

- A. Prepare surfaces to be coated in accordance with the manufacturer's instructions but not less than specified herein.
- B. Grind off weld beads, slag, projections, and weld spatter and grind sharp edges of all metal round and smooth, so that it is ready for painting.
- C. Surface preparation shall conform to the following:
 - 1. SSPC-SP 10 for all surfaces, except:
 - a. Pretreat galvanized surfaces in accordance with the manufacturer's recommendations.
 - 2. Anchor profile as recommended by coating system manufacturer. If manufacturer does not recommend, anchor profile shall be 1.5 to 3.0 mils.

3.02 APPLICATION

- A. Mix, thin, and apply all coatings in accordance with the manufacturer's instructions, the applicable requirements of SSPC-PA 1, and as specified herein.
- B. Surface to be painted shall have specified surface preparation at the time of application of coating.
- C. Dry Film Thickness (DFT) of coating system: 8 mils.
- D. Internal coating shall be free of holidays and pinholes.

- E. Apply coatings by air or airless spray except:
 - 1. Stripe all welds and edges by brush prior to applying first full coat.
- F. After each coat and immediately prior to application of a subsequent coat, clean surface as required to remove dirt, dust, overspray, and other contaminants that may affect adhesion of the subsequent coat.
- G. Discard all catalyzed coatings at the end of each working day or at end of manufacturer's recommended pot life, whichever is first.
- H. Final coat shall be well-bonded, uniform in color over the entire surface, and smooth to touch with no sags, runs, overspray, cracks, or other surface defects.
- I. Coating repairs:
 - 1. Touch-up or refinish all chipped, abraded, or otherwise unsatisfactory portions of the work in accordance with the manufacturer's recommendations.
 - 2. Recoat or touch-up all damaged shop coated surfaces after installation.

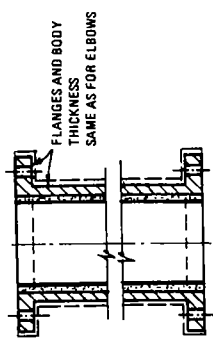
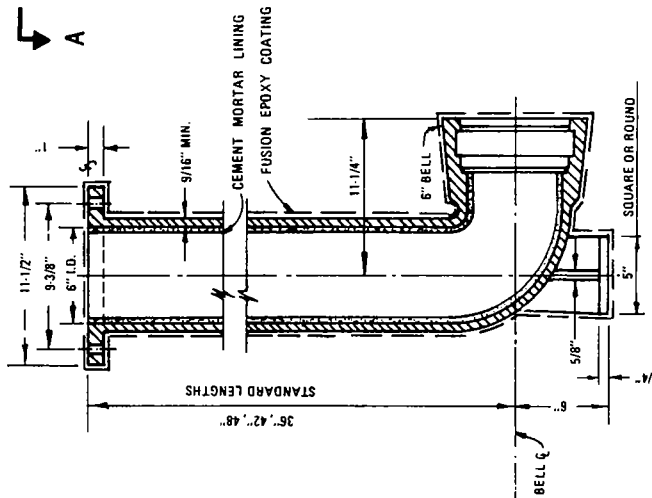
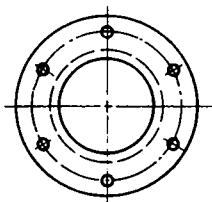
3.03 QUALITY CONTROL

- A. The District may, at its option, inspect the surface preparation and the application of the coating system. Notify the District's Supervising Plant Inspector, Ronald Monteforte, at (510) 287-1132 so that an inspector may be present at the shop. Contractor shall furnish the test equipment and any personnel required for testing. Contractor's tests shall be made in the presence of the District Inspector, who may conduct his own coating tests at the shop and after delivery. Coating thickness shall be measured after each coat using non-destructive magnetic film gauges.
- B. Measure coating thickness after each coat using non-destructive magnetic dry film gauges.
- C. Adhesion:
 - 1. The adhesion of properly applied and cured coating shall be such that it cannot be removed except by sand or grit-blasting or by power brushing.
 - 2. The second coat shall show complete adhesion to the first coat 72 hours after its application.
 - 3. Adhesion will be determined by use of a sharp scraping tool.

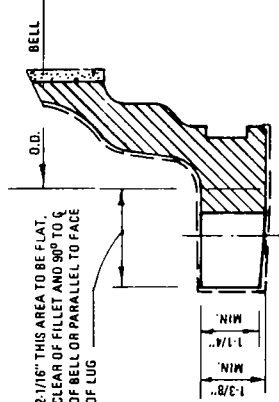
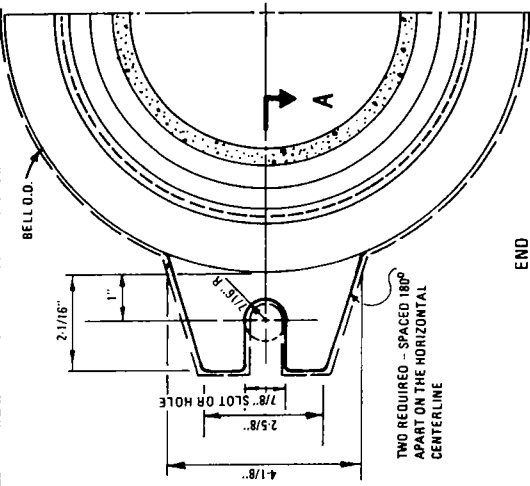
4. Cured coating shall show no peeling of coating from metal or separation between coats.
- D. Contractor shall test the internal coated surfaces for holidays and pinholes after application of the final coat.
1. Perform test after coating has cured as recommended by the manufacturer.
 2. As directed by the Engineer, use either a low voltage wet sponge holiday detector or a high voltage holiday detector.
 - a. Low voltage wet sponge holiday detector shall be equal to K-D Bird Dog or Tinker-Rasor M-1. Add a non-sudsing wetting agent, such as Eastman Kodak Photo-Flo to the water used to saturate the sponge.
 - b. High voltage holiday detector shall be equal to Tinker-Rasor AP-W or D. E. Stearns Model 14/20. Use in accordance with coating manufacturer's recommendations except use voltage of 150 volts per mil of coating.
 3. Retest after coating repairs

END OF SPECIFICATIONS SECTION

NOTE:
FLANGES FACED, HOLES DRILLED
3/4" DIA. FOR 5/8" DIA. BOLTS AS
SHOWN AND SPOT FACED ON BACK
OF FLANGE AS REQUIRED.
Q OF BOLT HOLES SHALL BE ON Q
OF BELL.



HYDRANT EXTENSION
MATERIAL TO BE GRAY CAST IRON OR DUCTILE IRON
STANDARD LENGTHS - 4", 6", 9", 12", 18", 24", 30"



NOTES:

1. USE 2" SQ. x 1/4" STEEL WASHER FOR 5/8" OR 3/4" BOLT.
2. LUGS TO BE CAST INTEGRALLY WITH RUBBER RING BELLS ON HYDRANT ELLS AND 6" FLANGE BY PUSH-ON GATE VALVES.
3. CEMENT MORTAR LINING AND FUSION EPOXY COATING SHALL BE AS SPECIFIED.
4. BELL TO CONFORM TO AWWA SPECIFICATIONS C110 AND C111 WITH RUBBER GASKET PUSH-ON JOINT. TIE BACK LUGS TO BE CAST INTEGRALLY WITH BELL.

SECTION A - A

APPROVED *CTW*
CHIEF ENGINEER
R.P.E. NO. C-8216

REVISED 8 DEC 88 D.A.S. 1/8

DESIGN BY <i>EBMUD</i>		EAST BAY MUNICIPAL UTILITY DISTRICT OAKLAND, CALIFORNIA	
DRAWN BY <i>E. HALL</i>		STANDARD DRAWING	
MECH. <i>EC</i>		HYDRANT ELBOWS AND EXTENSIONS CAST IRON & DUCTILE IRON AND TIE BACK LUGS FOR RUBBER RING BELLS	
PIPELINE		STRUCTURE OR ZONE DESIGNATION	
CORR.		SCALE <i>NONE</i>	
FNUM		DATE <i>4/20/81</i>	
SR. CIVIL ENGR., P.L.E. <i>Chaudhry</i>		RECOMMENDED	
R.P.E. NO. C 18774		MANAGER OF DESIGN	
R.P.E. NO. C 10873		ASST. CH. ENGR., DES. & <i>CTW</i>	
R.P.E. NO. C 26724		R.P.E. NO. C 26724	

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