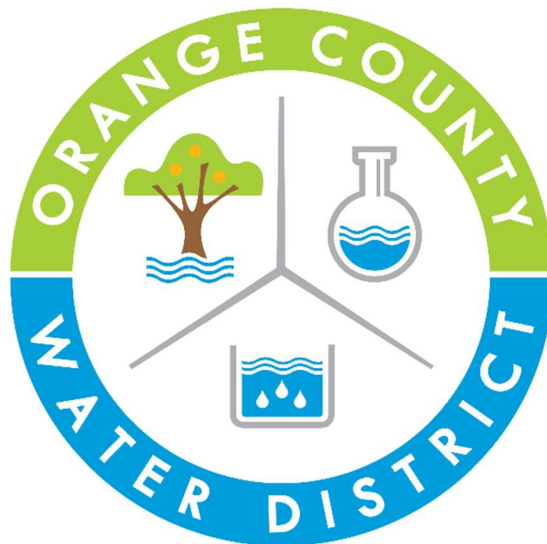


ORANGE COUNTY WATER DISTRICT

**REQUEST FOR PROPOSALS
RFP-24-012**

**FOR
FPWP A01 INSPECTION AND REFURBISHMENT SERVICES**

ISSUED: Monday June 16, 2025



PROPOSALS DUE:

Wednesday, July 16, 2025 at 10:00AM PT

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- Exhibit A: Scope of Services and Instruction Manuals
- Exhibit A-1: Scope of Services
- Exhibit A-2: Flowserve OM Installation Instructions
- Exhibit A-3: Weir Floway Pump Bowls Instruction Manual
- Exhibit B: Evaluation Criteria
- Exhibit C: Services Agreement
- Exhibit D: Contractor Safety
- Exhibit D-1: Contractor Environmental Health & Safety Handbook
- Exhibit D-2: Contractor Safety Program

List of Attachments:

- Attachment No.1: RFP Submittal Checklist



OCWD RFP-24-012 - FPWP A01 INSPECTION AND REFURBISHMENT SERVICES

The Orange County Water District (“OCWD” or District) is seeking proposals from qualified and experienced firms to provide FPWP A01 Inspection and Refurbishment Services. OCWD intends to evaluate the proposals received and enter into a Three-Year General Services Agreement (“Agreement”) with the qualified firm. The work is expected to commence immediately upon Agreement execution. This Agreement will be for a minimum term of one year. The Agreement will be monitored closely for acceptable services rendered throughout the Agreement term. OCWD will have the option to terminate the contract in whole or in part during the Agreement term, for any reason or no reason, without penalty, upon notice. The proposer will not be entitled to lost profits or any other compensation not earned prior to the time of termination.

This Request for Proposal (“RFP”) describes the required scope of services, the information that must be included in the proposal, and the proposal selection process. Proposers are encouraged to carefully review this RFP in its entirety prior to submitting their proposals. Failure to submit information in accordance with these requirements and procedures may be cause for disqualification.

1. INTRODUCTION

The OCWD is an internationally recognized leader in the water industry that was formed in 1933 by the California State Legislature which entrusted OCWD to guard and protect the region’s groundwater basin and limited water supply. OCWD’s mission is to provide a reliable supply of high-quality water that is sourced in an environmentally responsible manner to the more than 2.5 million residents and businesses within the 270 square mile service area of Orange County, California that OCWD serves. OCWD manages three of Southern California’s greatest water supplies, this includes protecting rights to the Santa Ana River, managing and replenishing the Orange County Groundwater Basin, and operating and maintaining the Groundwater Replenishment System (GWRS), the world’s largest advanced water purification system for potable water reuse. More information regarding the OCWD can be found at www.ocwd.com.

2. SOLICITATION SCHEDULE

The solicitation schedule is summarized in the table below. OCWD reserves the right to modify the schedule below at its discretion. Proper notification changes will be made to interested proposers.

RFP Issued	Monday June 16, 2025
Pre-Proposal Meeting (mandatory)	Thursday, June 26, 2025 at 9:00AM PT
Questions Due Date	Wednesday, July 2, 2025 at 10:00AM PT
Proposals Due	Wednesday, July 16, 2025 at 10:00AM PT
Agreement Award Date:	August 2025

2.1. MANDATORY PRE-PROPOSAL MEETING

The mandatory pre-proposal meeting will be held on Thursday, June 26, 2025 at 9:00AM PT. The meeting will begin at the Board Room at the Orange County Water District’s



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Administration Office Building located at 18700 Ward Street, Fountain Valley, CA 92708. Firms interested in submitting proposals are required to attend the pre-proposal meeting. Please notify the security guard at the main entrance gate of the pre-proposal meeting.

Meeting participants will be required to sign in. A copy of the sign-in sheet will be posted on the OCWD website at, <https://www.ocwd.com/working-with-us/rfp-contracts/>, after the pre-proposal meeting. Proposals will not be accepted from firms that do not attend the mandatory pre-proposal meeting.

2.2. QUESTIONS CONCERNING REQUEST FOR PROPOSALS

All questions regarding the RFP must be submitted in writing before the deadline due date of **Wednesday, July 2, 2025 at 10:00AM PT**. All questions must be titled "**Question – RFP-24-012 FPWP A01**". Responses to questions received from prospective proposers will be formally documented in a Question and Answer (Q&A) table that will be posted on the OCWD website: <https://www.ocwd.com/working-with-us/rfp-contracts/>. The Q&A table will be updated regularly as questions are received from prospective proposers. Questions received after the questions due date will not be considered.

Attention: Ashlie Valencia, Contracts Administrator
Email: procurement@ocwd.com

2.3. DEADLINE FOR PROPOSALS

Three (3) hard copies and one (1) electronic flash drive copy of the proposal must be received in a sealed envelope by OCWD no later than **Wednesday, July 16, 2025 at 10:00AM PT** or such later time that OCWD may announce by an addendum at any time prior to the proposal deadline. The envelope shall be plainly marked on the exterior "Proposal for **RFP-24-012 FPWP A01 INSPECTION AND REFURBISHMENT SERVICES**" and with the name, company name, and address of the proposer.

Proposals must be mailed or delivered in person or via courier services at the District office listed below. To deliver submittal packages in person or via courier, please notify the guard at the main gate for proposal drop off. Sealed envelopes will be timestamped upon receipt at the receptionist desk.

Orange County Water District
Administration Office Building
Attention: Ashlie Valencia, Contracts Administrator
Address: 18700 Ward Street
Fountain Valley, CA 92708

It is the Proposer's responsibility to ensure that proposals are received prior to the submittal deadline. Proposal packages should also include all signed Acknowledgment of Addendum forms that may be issued by OCWD as part of this RFP process, as further



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described below. Proposals received after the deadline will not be considered under any circumstances. FAXED OR E-MAILED SUBMISSIONS WILL NOT BE ACCEPTED. The OCWD will not be responsible for the proper identification and handling of any proposals submitted incorrectly. Only responses properly submitted to OCWD will be considered. OCWD reserves the right to reject any and/or all responses received. There will be no formal opening of the proposals.

2.4. PRE-SUBMITTAL ACTIVITIES

The District reserves the right to revise the RFP prior to the date the Proposals are due. Addendums to the RFP shall be posted on the OCWD website: <https://www.ocwd.com/working-with-us/rfp-contracts/> for all interested Proposers. The District reserves the right to extend the date by which the Proposals are due.

3. PROJECT BACKGROUND AND DESCRIPTION

The District owns and operates the GWRS, which has a design capacity of 130 million gallons per day (MGD) and produces a total of 44 billion gallons annually. Approximately 30 MGD of GWRS water is pumped into injection wells to create a seawater intrusion barrier, while another 100 MGD is directed to OCWD's percolation basins in the City of Anaheim where the water naturally filters through sand and gravel to replenish the deep aquifers of the groundwater basin to increase the local drinking water supply. An additional 10 MGD of GWRS water can also be injected into injection wells that are in the City of Santa Ana to further boost the local drinking water supply.

As part of our ongoing asset management and reliability improvement efforts, we are undertaking three individual refurbishment projects for vertical turbine pumps located at separate areas of GWRS. Each project involves the removal, disassembly, cleaning, and detailed inspection of a single vertical turbine pump. Following inspection, all necessary repairs will be completed to return the pumps to proper operational condition, including reinstallation, and ensure compliance with performance specifications.

These refurbishment projects serve a dual purpose: restoring pump performance and establishing a clear baseline for the condition of our vertical turbine pump assets. The findings and outcomes will inform future maintenance strategies and capital planning decisions.

4. SCOPE OF SERVICES

See **Exhibit A**, attached at the end of this RFP, for the scope of services and performance standards for providing FPWP A01 Inspection and Refurbishment Services. It is anticipated that the District will enter into a one-year Agreement with one firm possessing the necessary expertise and experience required to complete the required services.



5. GENERAL INFORMATION

The District expects the selected firm to provide quality service in accordance with industry standards. The firm must demonstrate experience with the type of anticipated work and must have the ability to perform all services in a timely manner upon the request(s) from the District or the District's authorized representative. All work shall comply with the requirements of federal, state, and local laws, and District requirements.

Acceptable performance standards include, but are not limited to, dependability, contractor safety, demonstrated experience with anticipated work with the ability to perform all anticipated services in a timely manner upon receipt of request, expertise on the providing pump inspection and refurbishment services.

5.1. MINIMUM QUALIFICATIONS

The selected firm is required to have at minimum the following qualifications:

- pump inspection and refurbishment services

5.2. CONTRACTOR SAFETY

OCWD is committed to the safety of all its employees, contractors, and visitors. All contractors and subcontractors must adhere to applicable Federal, State, and Regional Environmental, Health and Safety (EHS) requirements, as well as OCWD EHS policies and procedures. As part of OCWD's Contractor Safety Program, the proposer shall review and sign the required documents provided in **Exhibit D**, which describes OCWD's Contractor Safety Program Requirements (**Exhibit D-1**) and Appendix forms (**Exhibit D-2**) that are required to be filled out by the Contractor at time of the proposal deadline and throughout the duration of the Agreement. OCWD's Risk and Safety Department will coordinate with the awarded contractor on safety training regarding OCWD's Contractor Safety Program.

5.3. PREVAILING WAGE

The California Labor Code, including but not limited to Sections 1720 et seq. and 1770 et seq. thereof, and interpreting case law and regulations (the "Prevailing Wage Laws") require the payment of prevailing wages for "public works" projects, including "[w]ork done for irrigation, utility, reclamation, and improvement districts, and other districts of this type" where the total compensation exceeds \$1000. The District has determined that some or all of the scope of work requires the payment of prevailing wages under the Prevailing Wage Laws.

Responding proposers must expressly agree to be responsible for compliance with all Prevailing Wage Laws applicable to the work performed.

The firms to whom an Agreement is awarded hereunder shall comply with all Prevailing Wage Laws, including the payment of prevailing wages to persons performing public works for OCWD. A copy of these prevailing wage rates is on file with the Department of



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Industrial Relations and can be found online with the State of California at <http://www.dir.ca.gov/dlsr/pwd>. A copy of such prevailing wage rates shall be posted on the jobsite by selected firms.

In accordance with Sections 1773 and 1773.2 of the California Labor Code, the District has found and determined the general prevailing rates of wages in the locality in which the public work is to be performed are those determined by the Director of Industrial Relations and available at <https://www.dir.ca.gov/OPRL/DPreWageDetermination.htm>. Copies of the prevailing rates of wages are maintained with the District's principal office and are available to any interested party on request. The selected firm shall post a copy of the prevailing rate of per diem wages at each job site.

The description provided herein only summarizes the Prevailing Wage Laws applicable to the work, and proposers are independently responsible for reviewing and assuring compliance with the same.

5.4. DIR CONTRACTOR REGISTRATION

Firms submitting proposals to this RFP must be registered with the Department of Industrial Relations prior to submitting a proposal pursuant to the requirements of Sections 1725.5 and 1771.1 of the California Labor Code. Contractor registration information can be found at <http://www.dir.ca.gov/Public-Works/PublicWorks.html>. Contracts entered into with any firm in violation of Section 1771.1(a), shall be subject to cancellation by the District at the sole discretion of the District consistent with Section 1771.1(f). Pursuant to California Labor Code Section 1771.4, proposers are alerted that the project is subject to compliance monitoring and enforcement by the Department of Industrial Relations.

6. ELEMENTS OF PROPOSAL

To provide a degree of consistency in the review of the written proposals, firms are required to include the following content in their proposals. The information required below will be used to evaluate each proposal based on the evaluation criteria outlined in this RFP. Proposals may be deemed nonresponsive if they do not respond to all areas specified below.

Proposals shall be prepared simply and economically, providing a straightforward and concise description of how the proposal has satisfied all the requirements of this RFP. Emphasis shall be on completeness and clarity of content with sufficient detail to allow for accurate evaluation and comparative analysis. Excessive or irrelevant materials will not be favorably received.

The following subsections describe the contents required in the proposal. The proposal shall be of such scope and depth to sufficiently describe and demonstrate the proposer's understanding of and approach to the projects.



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Please include the following in your proposal:

6.1 Title Page

The proposer should identify the RFP title, name and title of the firm's contact person, address, telephone number, fax number, email address, and date of proposal submission.

6.2 Cover Letter

A principal of the firm authorized to commit the firm to the requirements of the RFP must sign the cover letter. The letter should identify a contact person (name, e-mail address, and phone number) for future communication during the selection process. And shall also discuss the Proposer's commitment to providing high quality services, describe the firm's understanding and approach to the services, and its ability to perform the requirements of this RFP. Include a brief background of the firm including history, types of services provided, number of employees, number of offices and locations with staff size and disciplines, and any other relevant information that may be useful in determining the firm's qualifications to provide the services described in this RFP.

6.3 Table of Contents

The table of contents should include a clear and complete identification by section and page number of the submitted materials.

6.4 Contractor License and DIR Contractor Registration, Prevailing Wage Laws Compliance

Contractors submitting Proposals on this project must be registered with the Department of Industrial Relations pursuant to the requirements of Sections 1725.5 and 1771.1 of the California Labor Code prior to submitting a proposal. The proposer must provide their DIR reference number and expiration date and a copy of its contractor license issued by the State of California.

Proposers shall include an express statement asserting that the proposal was prepared taking into account all applicable Prevailing Wage Laws and that the proposer agrees to comply with all such laws applicable to the work.

6.5 Project Team and Qualifications

Provide an organizational chart that describes the structure of the project team, including subconsultants. The project team description shall identify the following:

- (i) The Project Manager,
- (ii) The names of readily-available key personnel that will be deployed for each task and their contact information, and the primary office locations of each project team member,



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- (iii) The role each team member will play in providing services under the Agreement, and
- (iv) A written assurance that the key individuals listed and identified will be performing the work and will not be substituted with other personnel or reassigned to another project without the District's prior approval. The proposal shall clearly identify who will lead the execution of assigned tasks and the respective personnel that will be assigned to them.

Provide a description of the experience, qualifications including required licenses and certifications, area of expertise or specialization, and availability (including current workload) of the project team members, including subconsultants/subcontractors, if any. Describe other project commitments by project team members and the anticipated level of involvement of each team member based on the abilities and expertise required for the type of work desired.

Provide the resumes of all members of the project team, including subconsultants/subcontractors, as an appendix. Each resume shall not exceed three (3) pages and shall include name and title, education, years with the company, licenses and certifications (issue and expiration dates), home office location, relevant experience within at least the last five (5) years, and other required qualifications discussed in this RFP.

Subcontractors under direct contract with the Contractor may furnish required tasks that cannot be furnished by the Contractor's in-house personnel. All such subcontractors shall be identified in the proposal, and the utilization of subcontractors is subject to approval by the District. The Contractor shall only assign personnel and subcontractors whose qualifications and experiences commensurate with the expertise required to accomplish the assigned tasks.

The identified Project Manager will be OWCD's main point of contact for all assigned projects for the duration of the Agreement. The proposal shall include the Project Manager's contact information, including phone and e-mail address.

Once an Agreement has been executed, the Contractor must request approval from the District in advance of any new personnel being assigned to the project. The District reserves the right to reject or remove personnel performing services at any time for the duration of the Agreement.

6.6 Project Overview and Approach

Present a narrative overview of the Proposer's understanding of the RFP requirements and the overall approach and plan for accomplishing the work assignments. Also discuss at a minimum the following:

- Ability to successfully complete work assignments within the District's required time frame and, as necessary, on short notice,
- Approach to assignment of work within the firm and how team members will conduct tasks and prepare anticipated deliverables,



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- Describe the Proposer's project management approach and communications protocol,
- Describe the Proposer's approach to quality assurance and control, as well as any performance guarantees,
- Technical approach to assigned tasks, such as deployment strategies (how the project will be implemented from mobilization to demobilization), and
- Identify current and reasonably foreseeable actual and possible constraints, problems, and/or issues that could hinder the execution of services under the contract, and suggest approaches to resolving or managing these constraints, problems, and/or issues. Any deviations from the scope herein shall be clearly designated in the proposal
- Include and describe, if any, all subcontractor services your firm believes is necessary

6.7 Additional Services

Include any comments, suggestions, or additions the Proposer may have regarding the scope of work or any other aspects of the work that the Proposer feels would be helpful to OCWD in selecting a firm for the services described in the RFP. Identify the potential impact(s) or benefit(s) that these recommendations would have if accepted by OCWD. Tasks above the minimum to complete the work described herein shall be clearly identified as "optional" in the proposal.

6.8 Experience and record of past performance.

Provide a minimum of three (3) references from other municipal, city, or county governmental agencies for which the company has recently or is currently providing pump inspection and refurbishment services that is equivalent or greater in scope as being required in this RFP. Indicate the scope of work, date, contract amount, and the name, email address, and telephone number of the client contact. Also provide a complete list of other public agencies in California utilizing your services over the past five (5) years. Ongoing projects currently being performed by the proposer also may be submitted for consideration. The District at its discretion may contact the references for additional information. Failure to provide accurate contact information may be cause for rejection of the proposal as being nonresponsive.

6.9 Price Proposal

It is expected that the indicated rates will remain in effect for the duration of the Agreement term unless otherwise specified and approved by OCWD.



6.9.1 Price Proposal

The price proposal shall be based on services provided with a total not to exceed amount, and shall include a table showing the following information:

- Labor hour breakdowns by the project tasks and subtasks identified in Section 4.0 (including other subtasks as the Proposer sees fit) and associated personnel, including any subconsultants, as well as total hours. Names and titles/categories of individuals proposed to work on the project tasks/subtasks, including names of subconsultants/ subcontractors shall be indicated.
- Fully loaded hourly billing rates – All direct, capital, and reimbursable expenses, including but not limited to travel and transportation costs, meals, lodging, office equipment and supplies, administrative and communications fees, etc., must be built into the hourly rates. Therefore, the District shall not pay Contractor nor its subconsultants/ subcontractors for any direct or reimbursable expenses incurred for implementation of the scope of services described herein.
- The labor hours and fees for proposed optional tasks, if any, shall be presented in a separate table to differentiate from the baseline Scope of Work.

It is expected that the indicated hourly rates will remain in effect for the duration of the Agreement unless otherwise specified and approved by OCWD. The rate sheet shall include any other rates or fees, such as markups for subconsultants/subcontractors not identified as part of the project team, equipment markups, or other direct costs that may be incurred.

The proposal shall also include a description of the anticipated method of billing for services performed, with provisions for monthly billing that will include itemized accounting of hours of personnel, hourly rates, and percent completion for each task identified. A project schedule, with milestones (one pump at a time) and completion deadlines, shall be included with the firm's proposal for tracking project costs on a resource loaded schedule based on the firm's project approach and experience.

6.10 Other Information

The proposal shall also include:

6.10.1 Contractor Safety Program

The proposer is required to review, complete, sign and submit the following documents:

- Contractor Environmental Health and Safety Agreement form, attached at the end of **Exhibit D-1**
- Appendix B: Contractor Required Information Form, attached in **Exhibit D-2**, must be completed in its entirety, and signed and submitted with the proposal.



6.10.2 Safety Manual

Contractor must include in their proposal a copy of its safety manual that meets requirements for their injury and illness prevention program. Must provide lifting plan for crane work and demonstrate competency in rigging.

6.10.3 Quality Control Plan

Contractor must include in its proposal a Quality Control Plan that provides the contractor an effective and efficient means of identifying and correcting problems throughout the entire scope of work. The Quality Control Plan must include technicians qualifications, and state who will be in charge of the job through completion.

6.11 Statement of Insurance Compliance

Proposer shall provide a statement that it will meet the insurance requirements that are listed in the Services Agreement, attached hereto as **Exhibit C**. OCWD will request the insurance forms and associated documentation when OCWD provides notice that the Services Agreement is awarded.

6.12 OCWD Standard Agreement

Proposers shall provide a statement that the Proposer accepts OCWD's form of Services Agreement attached hereto as **Exhibit C**. Proposers responding to this RFP must be prepared to proceed with the Services Agreement in substantially the form provided, with minor non-substantive changes in OCWD's sole discretion. OCWD retains full discretion to rescind the proposed Services Agreement award to a Proposer who fails to comply with this requirement, and to exclude the Proposer from future procurement where applicable. The Services Agreement shall be executed by the Proposer within ten (10) calendar days of receipt of OCWD's Notice of Award to Proposer.

6.13 Billing

Proposers shall provide a statement that it will meet the minimum requirements specified here. At a minimum, the invoice for services shall include the Purchase Order Number, Agreement Number, and the itemized summary of each authorized project task along with the names of persons, their job titles, the hours worked, and hourly billing rates. Attached to each invoice shall also include backup of the prevailing wage rate weekly certified payroll and documentation for any other direct costs in the form of receipts or vendor invoices, with the applicable costs identified for items such as plant purchases and material costs. Essential components of a proper "Weekly Certified Payroll" include all the information that is called for on the standard WH-347 report:

- The Fringe Benefits Statement (signed)
- The Payroll Earnings/Timesheet pages
- The Certification Statement (signed)



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- Non-Performance reports covering periods where no certified payroll was incurred.

OCWD will provide reporting requirements to the selected firm, and the selected firm shall prepare invoices that comply with the requirements. Failure to satisfy the reporting requirements may result in rejection, payment delay, or short pay of the invoices submitted to OCWD for payment.

6.14 Conflict of Interest

Provide a statement that the proposer, individuals employed by the proposer, or firms employed by or associated with the proposer, do not have a conflict of interest with the Project. The proposer shall exercise reasonable efforts to prevent any actions or conditions that could result in a conflict of interest and shall include, but is not limited to, establishing precautions to prevent its employees or agents from making, receiving, providing in, or offering gifts, entertainment, payments, loans, or other considerations which could be deemed to appear to influence individuals to act contrary to the best interest of the District. If a potential conflict of interest is identified in any form, the Proposer shall inform the District immediately. Proposers are subject to disqualification on the basis of a conflict of interest as determined by OCWD. By submitting a proposal you are stating you do not have a conflict of interest with the Project.

6.15 Equal Employment Opportunity And Affirmative Action Requirements

The proposers shall provide a Statement of Equal Employment Opportunity/Affirmative Action. The selected consultant/contractor and each subconsultant/subcontractor shall not discriminate in the employment of persons on the work because of race, religious creed, color, national origin, ancestry, physical handicap, medical condition, marital status, sexual preference or sex of such persons except as permitted by Section 12940 of the California Government Code. The selected contractor is expected to maintain policies similar to those of the District regarding equal employment opportunities and affirmative action as set forth in the District's Administrative Policies.

7. PROPOSAL SUBMISSION REQUIREMENTS

7.1. Proposal Format

The proposal shall be limited to no more than 25 single-pages in 8.5" width x 11" length size recycled or recyclable white bond paper, paginated, and bound. This does not include the title page, table of contents, cover letter, appendices, dividers, or résumés. Any oversized documents, such as charts or tables, must be folded to size and secured in the envelope.

All files shall be bookmarked and in a text searchable PDF format (i.e., not scanned images) compatible with Adobe Acrobat Version 8.0 (at a minimum). The main directory of the flash drive shall contain the entire proposal as two separate PDF files for Part One and Part Two. All sections of the PDF file shall be bookmarked.



7.2. Proposal Preparation Costs

This solicitation does not commit the District to award any work nor to pay any costs incurred from the preparation of proposals. Firms responding to this RFP will be solely responsible for all costs and expenses incurred during the selection process.

8. SELECTION PROCESS

Selection of the Contractor will be based on the proposal contents, prior experience of the firm, performance on similar or related projects, and overall costs that best serve the District. Other factors that may be considered during the evaluations include the firm’s reputation in the industry and any other aspects which could affect the proposer’s performance under the awarded Agreement.

All responsive proposals will be evaluated by a selection committee formed by the District. The proposal shall be of such scope and depth to sufficiently describe and demonstrate the proposer’s understanding, approach, and qualifications to successfully complete the scope of services described herein. Submittal of incomplete or vague responses to any section or subsection of this RFP may result in rejection of the proposal. Proposals will be evaluated, scored, and ranked based on the criteria specified in the table below. The evaluation criteria listed in the OCWD Proposal Evaluation Form (**Exhibit B**) will be used to evaluate each proposer.

Item No.	Criteria for Proposal Evaluations	Maximum Points
1	Project Approach and Schedule	25
2	Experience and Qualification of the Project Manager, Project Team, and Proposing Firm	25
3	Time Commitment of Key Staff and Organization Support Services	10
4	Price Proposal	25
5	Record of Success on Recent Similar Projects	15
TOTAL POINTS:		100

The District reserves the right to award the contract to the firm who presents the proposal, which in the judgment of the District, best accomplishes the desired results based upon this information, OCWD staff will recommend a firm to OCWD’s Board of Directors for award of the contract. The selected firm must be able to begin work immediately upon award of the contract and must be able to maintain the required level of effort to meet the proposed schedule.



9. SPECIAL CONDITIONS

9.1. RESERVATIONS

This RFP does not commit the District to award a contract, to defray any costs incurred in the preparation of a Proposal pursuant to this RFP or to procure or contract for work.

9.2. PUBLIC RECORDS

All Proposals submitted in response to this RFP become the property of the District and are public records and as such may be subject to public review.

9.3. RIGHT TO CANCEL

The District reserves the right to cancel, for any or no reason, in part or in its entirety, this RFP including but not limited to: selection schedule, submittal date, and submittal requirements. If the District cancels or revises the RFP, the District will notify all the proposers in writing via email.

9.4. ADDITIONAL INFORMATION

The District reserves the right to request additional information and/or clarifications from any or all Proposers.

9.5. PUBLIC INFORMATION

Release of Public Information selection announcements, contract awards, and all data provided by the District shall be protected from public disclosure. Proposers desiring to release information to the public must receive prior written approval from the District.



EXHIBITS



EXHIBIT A

SCOPE OF SERVICES



EXHIBIT A-1

SCOPE OF SERVICES

Exhibit A-1
Scope of Services
RFP-24-012
FPWP A01 Inspection and Refurbishment Services

1. Removal of Pump:

- Detailed procedures for the safe and efficient removal of the RO pump.
- Transportation and handling measures to ensure the pump's integrity during removal and transport to repair facility.

2. Examination of Soleplate:

- Examination of the soleplate.
- Ensure the level is within 0.002 in./ft.
- Provide corrective measures if the level is beyond the specified tolerance.

3. Inspection on Male Registers on Bowl:

- Thorough examination of male registers on the pump bowl.
- Adherence to specified maximum allowable clearances as specified in attached IOM.
- Documentation of any damage, wear, or misalignment identified during inspection.

4. Inspection of Discharge Head:

- Detailed assessment of the discharge head for any signs of wear, corrosion, or structural issues.
- Adherence to specified maximum allowable clearances as specified in attached IOM.
- Recommendations for necessary repairs based on the inspection findings.

5. Inspection of Series Bowls Registers and Bearing:

- Comprehensive inspection of series bowl registers and bearings.
- Adherence to specified maximum allowable clearances as specified in attached IOM.

6. Stuffing Box Inspection and Replacement of Stuffing Box Bearing:

- Thorough inspection of the stuffing box and associated components.

- Adherence to specified maximum allowable clearances as specified in attached IOM.

7. Inspection of Impeller and Wear Ring:

- Detailed examination of the impeller and wear ring.
- Adherence to specified maximum clearances as specified in attached IOM.
- Recommendations for corrective action if clearances are beyond acceptable limits.

8. Inspection of Shaft and Bearing Journals:

- Comprehensive inspection of the RO pump shaft and bearing journals.
- Adherence to specified maximum allowable Total Indicator Runout (T.I.R) for the shaft.
- Documentation of any issues, wear, or damage observed during the inspection.

9. Reinstalling the Pump with Rebuilt or New Flowserve Mechanical Seals:

- OCWD will provide specifications for the new Flowserve mechanical seals, including type and material.
- Include the cost of the new mechanical seals and any additional materials required for the reinstallation in the proposal.

Submission Guidelines:

- Cost of Removal (including Crane), Disassembly, Cleaning, Inspection Report, and Installation
- When finished pump should be in as new condition.
- Detailed breakdown of costs for each repair item.
- Proposed timeline for completing the repairs.
- Relevant experience in similar pump repair projects
- Job will be awarded based on bid, any pump parameters found outside of specifications during the inspection will be corrected and cost adjusted.



EXHIBIT A-2

FLOWSERVE OM INSTALLATION INSTRUCTIONS

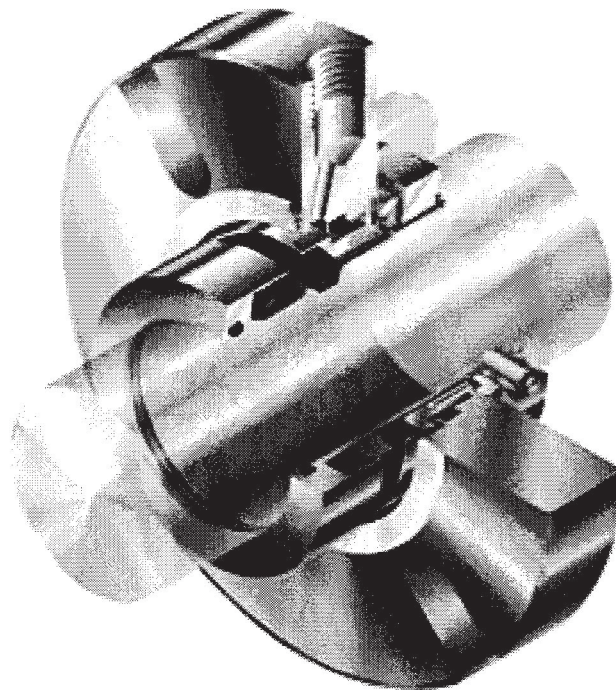


Installation Instructions

80 Series

Single, cartridge mounted, flexible stator pusher seal designed for general service applications

84 and 85



Experience In Motion

Congratulations

You have just purchased a reliable, long-life product made by the leading manufacturer of sealing systems in the world. With proper installation and operation, the 84/85 seals can be valuable contributors to your operation by significantly reducing the mean time between planned maintenance (MTBPM) of your rotary equipment.

Description

The 84/85 seals are cartridge mounted mechanical seals, designed for ease of installation and reliable operation. **No seal setting dimensions are required.** Rotatable setting devices provide proper alignment. The flexible stationary face design compensates for inadvertent misalignment of the seal chamber face. Multiple springs provide uniform face loading and are external of the pumpage, resisting clogging or hang-up. Installation according to the following steps will assure long trouble free life of the 84/85 seals.

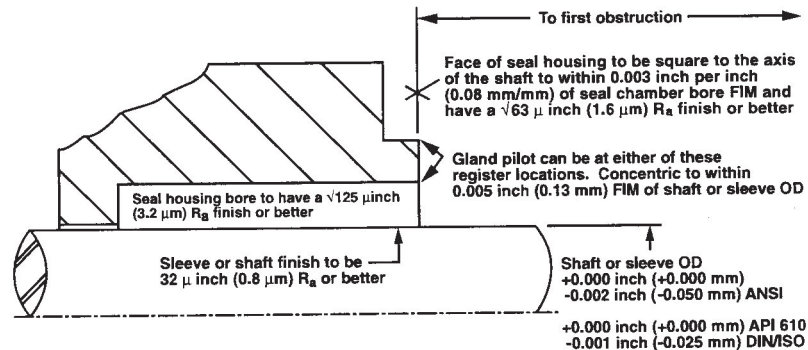
1 Equipment Check

- 1.1 **Follow plant safety regulations** prior to equipment disassembly:
 - lock out motor and valves.
 - wear designated personal safety equipment.
 - relieve any pressure in the system.
 - consult plant MSDS files for hazardous material regulations.
- 1.2 **Disassemble equipment** in accordance with equipment manufacturer's instructions to allow access to seal installation area.
- 1.3 **Remove existing mechanical seal and gland** or compression packing and packing gland.
- 1.4 Make sure the shaft or sleeve and the **seal housing face are clean** and free of burrs, cuts, dents, or corrosion that might cause leakage past the sleeve gasket O-ring or gland gasket. See Figures 1 & 2. Replace worn shaft or sleeve if it is worn in the sleeve gasket area. **Remove sharp edges** from keyways and threads.
- 1.5 **Check equipment dimensions** to ensure that they are within the dimensions shown in **Figures 1 and 2**. Critical dimensions include shaft or sleeve OD (**A**), a chamber depth of at least dimension (**G**),

minimum and maximum seal housing bore (C), and the minimum distance to the first obstruction (K). See Figure 2.

Seal Chamber Requirements

Figure 1



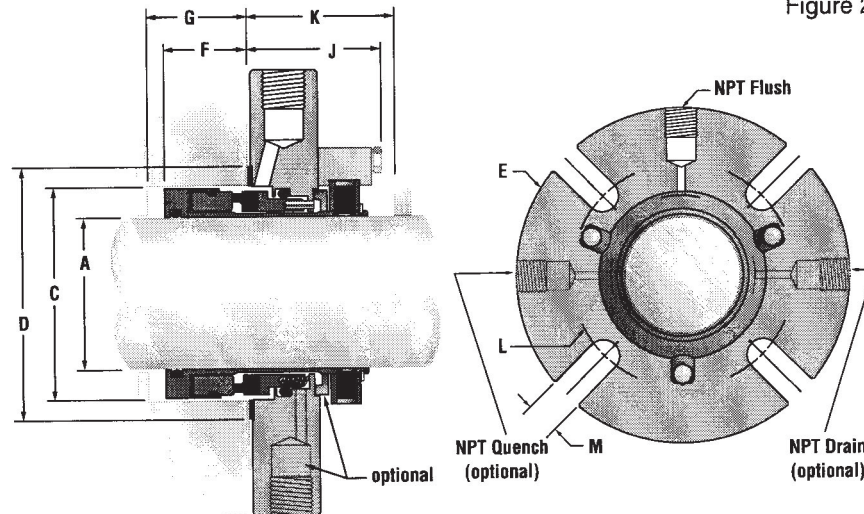
- Bearings must be in good condition.
- Maximum lateral or axial movement of shaft (end play) = 0.010 inch (0.25 mm) FIM
- Maximum shaft runout at face of seal housing = 0.002 inch (0.05 mm) FIM
- Maximum dynamic shaft deflection at seal housing = 0.002 inch (0.05 mm) FIM

1.6 **Check gland bolting** to ensure that bolt diameter (M) and bolt circle diameter (L) conform to the dimensions shown in Figure 2.

1.7 **Handle the 84/85 with care**, it is manufactured to precise tolerances. The stationary and rotating sealing faces are of special importance. They are lapped flat to within three light bands (34.8 millionths of an inch). Keep the seal faces perfectly clean at all times.

84/85 Dimensional Data (inches) for standard bore seal chambers

Figure 2



84/85 Dimensional Data (inches) for standard bore seal chambers *continued*

Figure 2

A	C		D	E	F	G		J	K	L	M
Shaft & Seal Size	Box Bore (Min) (Max)		Gasket OD	Gland OD		Box Depth (Min)			Dist to Obst (Min)	Slot Bolt Circle	Bolt Slot Dia.
1.000	1.750	2.010	2.250	4.000	1.025	1.087	1.663	1.725	2.743	0.438	
1.125	1.750	2.135	2.375	4.000	1.025	1.087	1.663	1.725	2.868	0.438	
1.250	2.000	2.260	2.500	4.000	1.025	1.087	1.663	1.725	3.087	0.531	
1.375	2.000	2.385	2.625	4.000	1.025	1.087	1.663	1.725	3.212	0.531	
1.500	2.250	2.510	2.750	4.500	1.025	1.087	1.663	1.725	3.337	0.531	
1.625	2.375	2.635	2.875	5.000	1.025	1.087	1.663	1.725	3.462	0.531	
1.750	2.500	2.760	3.000	5.500	1.025	1.087	1.663	1.725	3.587	0.531	
1.875	2.625	2.885	3.125	5.500	1.025	1.087	1.663	1.725	3.712	0.531	
2.000	2.750	3.010	3.250	5.400	1.025	1.087	1.663	1.725	3.837	0.531	
2.125	2.875	3.135	3.375	6.000	1.025	1.087	1.663	1.725	4.118	0.688	
2.250	3.250	3.760	4.000	6.000	1.025	1.087	1.663	1.725	4.739	0.688	
2.375	3.375	3.885	4.125	6.000	1.025	1.087	1.663	1.725	4.864	0.688	
2.500	3.250	3.760	4.000	6.000	1.025	1.087	1.663	1.725	4.989	0.688	
2.625	3.625	4.135	4.375	6.000	1.025	1.087	1.663	1.725	5.114	0.688	
2.750	3.750	4.260	4.500	7.000	0.860	0.922	1.828	1.890	5.239	0.688	
2.875	3.875	4.385	4.625	7.000	0.860	0.922	1.828	1.890	5.364	0.688	
3.000	4.000	4.510	4.750	8.000	0.860	0.922	1.828	1.890	5.489	0.688	
3.125	4.125	4.635	4.875	8.000	0.860	0.922	1.828	1.890	5.614	0.688	
3.250	4.375	5.135	5.375	8.000	1.548	1.610	2.298	2.360	6.345	0.813	
3.375	4.500	5.260	5.500	8.000	1.548	1.610	2.298	2.360	6.470	0.813	
3.500	4.625	5.385	5.625	8.500	1.548	1.610	2.298	2.360	6.595	0.813	
3.625	4.750	5.510	5.750	8.500	1.548	1.610	2.298	2.360	6.720	0.813	
3.750	4.750	5.510	5.750	8.750	0.893	0.955	1.828	1.890	6.708	0.813	
4.000	5.250	6.010	6.250	9.000	1.420	1.482	2.553	2.615	7.220	0.813	
4.250	5.500	6.260	6.500	9.500	1.420	1.482	2.553	2.615	7.470	0.813	
4.375	5.625	6.385	6.625	9.500	1.420	1.482	2.553	2.615	7.595	0.813	
4.500	5.750	6.510	6.750	10.000	1.420	1.482	2.553	2.615	7.720	0.813	
4.625	5.875	6.635	6.875	10.500	1.420	1.482	2.553	2.615	8.032	1.000	
4.750	5.750	6.573	6.813	9.500	1.298	1.360	2.298	2.360	7.719	0.813	
4.875	6.125	6.885	7.125	11.000	1.420	1.482	2.553	2.615	8.282	1.000	
5.000	6.500	7.510	7.750	11.000	1.709	1.771	2.673	2.735	8.907	1.000	
5.125	6.625	7.635	7.875	11.500	1.709	1.771	2.673	2.735	9.032	1.000	
5.250	6.750	7.760	8.000	11.500	1.709	1.771	2.673	2.735	9.157	1.000	
5.375	6.875	7.885	8.125	11.500	1.709	1.771	2.673	2.735	9.282	1.000	
5.500	7.000	8.010	8.250	11.500	1.709	1.771	2.673	2.735	9.407	1.000	
5.625	7.125	8.135	8.375	11.500	1.709	1.771	2.673	2.735	9.532	1.000	
5.750	7.250	8.260	8.500	12.000	1.709	1.771	2.673	2.735	9.657	1.000	
5.875	7.375	8.385	8.625	12.000	1.709	1.771	2.673	2.735	9.782	1.000	
6.000	8.000	9.010	9.250	12.000	1.987	2.049	2.923	2.985	10.407	1.000	
6.500	8.500	9.510	9.750	12.000	1.987	2.049	2.923	2.985	10.907	1.000	
7.000	9.000	10.010	10.250	14.000	1.987	2.049	2.923	2.985	11.407	1.000	

2 84/85 Installation

Note: No seal setting measurements are needed to install the 84/85 seals. Instructions are for vertically split case end-suction ANSI pumps. Modification of the procedure may be required for other style pumps. Consult Flowserve.

2.1 Tools needed for installation:

- An open end wrench for the gland bolt nuts
- 1/8" and 3/16" hex wrench (provided)
- 5/16" and 3/8" open end wrench (provided)
- Silicone Lubricant

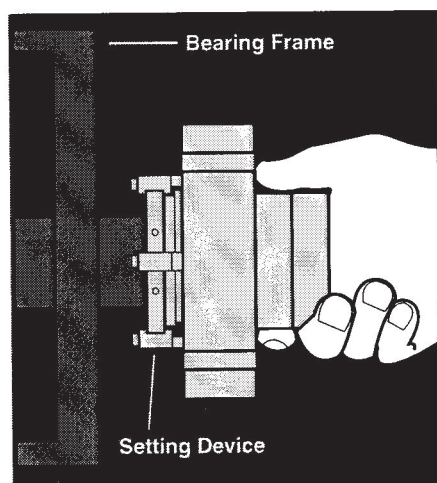


Figure 3

2.2 **Lubricate the shaft** or sleeve lightly with silicone lubricant.

2.3 **Install the complete 84/85** cartridge assembly onto the shaft or sleeve with the setting devices near the bearing housing. See Figure 3.

2.4 **Install the pump back plate** (seal chamber) and bolt it in place on the bearing frame. See Figure 4.

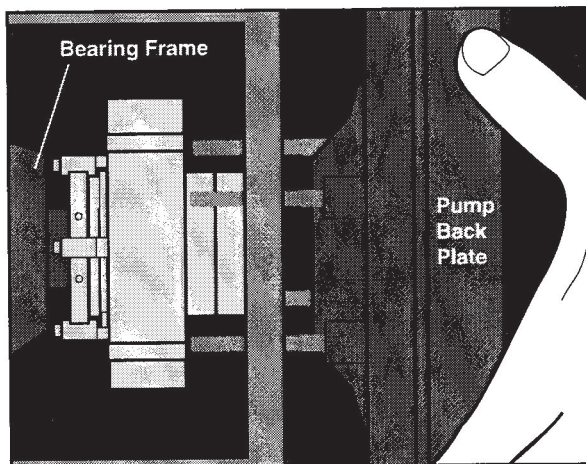


Figure 4

2.5 **Position the 84/85** with the gland tight against the seal chamber face. Turn the gland so that the flush tap is as close to the 12:00 o'clock position as possible and so that the flush piping will clear the bearing frame. **Tighten the gland nuts** evenly in a diagonal sequence. Do not overtighten the gland nuts, as this can warp seal parts and cause leakage.

2.6 **Assemble the pump.** Avoid pipe strain. Align coupling properly.

2.7 With the impeller, shaft, coupling, and bearings in their final operating positions, **tighten the 84/85 set screws.** See Figure 5.

2.8 **Rotate the setting devices** 180° from the drive collar and retighten. See Figure 6. Loosen the hex head bolts in the bronze centering tabs, rotate 180° to clear the drive collar. Retighten the hex head bolts to store the setting device on the gland.

2.9 **Turn the shaft** by hand to ensure unobstructed operation.

2.10 See **Operational Recommendations** before start-up.

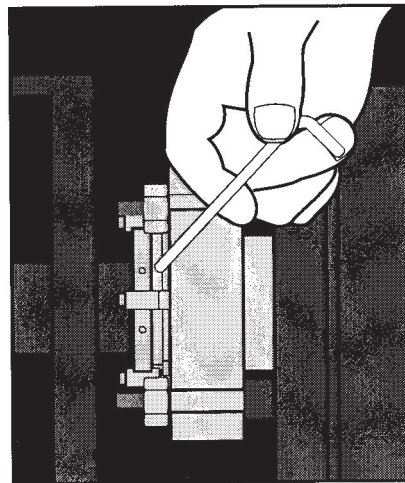


Figure 5

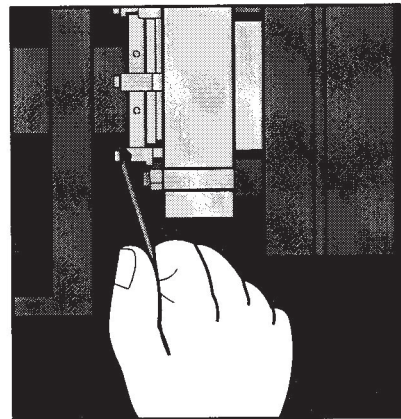


Figure 6

3 Operational Recommendations

- 3.1 Install an **adequate seal flush** system. The 84/85 requires a clean cool environment for maximum seal life. With a clean cool product, use a bypass flush from the pump discharge (API plan 11) or a bypass flush to the pump suction (API plan 13). With clean hot product, use a bypass flush through a cooler (API plan 21). With abrasive products or products that are incompatible with the seal, use a flush from a clean external source (API plan 32).

Note: All piping plan designations used in these instructions are from API 682. For the corresponding ASME B73 piping plan designation, please add a 73 in front of the referenced piping plan.

- 3.2 **Remove lock outs** on pump and valves.
- 3.3 **Do not start up the equipment dry** to check motor rotation, etc. Open valves to flood pump with product fluid. Ensure that the seal flush system is operating. Vent air from the casing of the pump and the seal chamber before start-up.
- 3.4 **Observe the start-up.** If the seal runs hot or squeals, check the seal flush system. Do not allow the equipment to run for any extended time if the seal gets hot or squeals.

4 Operational Recommendations

- 4.1 **Do not exceed corrosion limits.** The 84/85 seal is designed to resist corrosion by most chemicals. However, do not expose the 84/85 materials of construction to products outside of their corrosion limits.
- 4.2 **Do not exceed the Pressure limits** of the 84/85 seal, contact your nearest Flowserve Sales and Service Representative or Authorized Distributor.
- 4.3 **Do not exceed the temperature limits** of the 84/85 seal. The materials of construction are listed on the box label. Turn on cooling water to the supply tank before start up if the tank has coils.

For special problems encountered during installation, contact your nearest Flowserve Sales and Service Representative or Authorized Distributor.



TO REORDER REFER TO

B/M # _____

F.O. _____

5 Repair

This product is a precision sealing device. The design and dimension tolerances are critical to seal performance. Only parts supplied by Flowserve should be used to repair a seal. These are available from numerous Flowserve stocking locations. To order replacement parts, refer to the part code number and B/M number. A spare backup seal should be stocked to reduce repair time.

When repairs are not conducted at the customer's location, **decontaminate the seal assembly** and return it to Flowserve, with an order marked "**Repair or Replace**". A **signed certificate of decontamination** must be attached. A **Material Safety Data Sheet (MSDS) must be enclosed** for any product that came in contact with the seal. The seal assembly will be inspected and, if repairable, it will be rebuilt, tested, and returned in its original condition.

FIS151eng REV 01-06 Printed in USA

**To find your local Flowserve representative
and find out more about Flowserve Corporation,
visit www.flowserve.com**

Flowserve Corporation has established industry leadership in the design and manufacture of its products. When properly selected, this Flowserve product is designed to perform its intended function safely during its useful life. However, the purchaser or user of Flowserve products should be aware that Flowserve products might be used in numerous applications under a wide variety of industrial service conditions. Although Flowserve can provide general guidelines, it cannot provide specific data and warnings for all possible applications. The purchaser/user must therefore assume the ultimate responsibility for the proper sizing and selection, installation, operation, and maintenance of Flowserve products. The purchaser/user should read and understand the installation instructions included with the product, and train its employees and contractors in the safe use of Flowserve products in connection with the specific application.

While the information and specifications contained in this literature are believed to be accurate, they are supplied for informative purposes only and should not be considered certified or as a guarantee of satisfactory results by reliance thereon. Nothing contained herein is to be construed as a warranty or guarantee, express or implied, regarding any matter with respect to this product. Because Flowserve is continually improving and upgrading its product design, the specifications, dimensions and information contained herein are subject to change without notice. Should any question arise concerning these provisions, the purchaser/user should contact Flowserve Corporation at any one of its worldwide operations or offices.

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EXHIBIT A-3

WEIR FLOWAY PUMP BOWLS INSTRUCTION MANUAL

Weir Floway, Inc.

Pump Bowls

IM-109-01 34"- 42" - Open Line Shaft

Excellent
Engineering
Solutions



**INSTRUCTION MANUAL FOR
INSTALLATION, OPERATION AND MAINTENANCE
AND
LIST OF PARTS**

**PRODUCT WATER PUMPS
A01, 2, 3 - PMP - 3400
PUMP SERIAL NO.: 55353-1-1 TO 3**

"There's a Difference..."

WARRANTY: Each product manufactured by Weir Floway is warranted to be free of defects in material and workmanship for a period of one (1) year after the product is first put into operation or eighteen (18) months after date of shipment, whichever is less, when the product is in the hands of the original user and the product has been used properly for the purpose for which sold; and provided that Seller shall be notified within thirty (30) days from the earliest date on which an alleged defect could have been discovered, and further that the defective good(s) or part(s) shall be returned to the Seller, freight prepaid by such user, at Seller's request. No material will be accepted at Seller's plant without a Return Material Authorization (RMA) number first obtained from Seller. All material returned must be clearly marked with such RMA number. Unless expressly stated otherwise, warranties in the nature of performance specifications furnished in addition to the foregoing on a product manufactured by Weir Floway, if any, are based on laboratory tests corrected for field performance. Due to inaccuracies of field testing, if any conflict arises between the results of field testing conducted by or for the user, and laboratory tests corrected for field performance, the latter shall control. No equipment shall be furnished on the basis of acceptance by results of field testing, unless such tests are made in accordance with the engineering practices outlined in Section 6.1-6.1.2 (or successor provisions) of the American National Standards Institute Bulletin E101, latest edition. Such performance warranties are void if impellers are trimmed by anyone other than factory personnel or those authorized by Seller. Further, they are only for the design point specified and relate only to performance at the time of installation. All purchased items (accessories and other equipment not manufactured by Weir Floway) are warranted only for the period and to the extent of the original manufacturer's warranty and should be subject to all of the terms and conditions of such warranty. ***There are no express or implied warranties, including any warranty of merchant ability or fitness for a particular purpose, which extend beyond those described or referred to above.***

The sole and exclusive remedy for breach of any and all warranties with respect to any product shall be replacement or repair at Seller's option, f.o.b. factory, of such goods and/or parts as prove defective. There shall be no further liability, whether based on warranty, negligence or otherwise; no claims for labor or consequential damages shall be payable.

Weir Floway, Inc. shall be responsible for those products and components supplied by Weir Floway, Inc. and only to the extent of the terms, conditions, and warranties of the accessory equipment manufacturer.

Unless Purchaser clearly shows that none of the following were a cause of an alleged defect, all warranties are void if:

1. Pump is handling liquids other than clear, fresh non aerated water at a temperature not exceeding 85 degrees F. or such other liquids and/or temperatures contrary to those specified by the shipping order;
2. If pump has been handling abrasive material;
3. If pump speed is low, due to low voltage or other reason beyond control of Seller;
4. If pump is installed in a sump or well which is not sufficiently straight and plumb and of sufficient diameter to allow the pump to hang free and plumb;
5. If pump is damaged from electrolysis, graphitization, corrosion, or erosion;
6. If air or vapor is allowed to enter the pump section;
7. Parts not furnished by Seller are used in head, bowl, or column assembly; or
8. If a foot valve is used without consent of Seller on any unit.

None of the provisions hereof may be altered or modified unless in a separate writing signed by Seller.

CANCELLATION AND/OR CHANGES: Orders shall not be subject to cancellation by Purchaser unless agreed to in writing by Seller. No cancellation will be accepted by Seller except upon payment to Seller of a reasonable charge, as determined by Seller, to cover out-of-pocket costs and all other damages incurred by Seller. Modifications or changes to existing orders must be agreed to in writing by Seller and will be subject to an established minimum charge in effect at the time of purchase, plus the net addition or deduction of material and labor.

PENALTY CLAUSE: No penalty clause of any description is acceptable unless approved in writing over the signature of an officer of Weir Floway, Inc.

ASSIGNMENT: None of the Purchaser's rights under any order or agreement shall be assigned by the Purchaser to any other person, whether by operation of law or otherwise, without the Seller's prior written approval.

GENERAL: Should any of the terms and provisions of Purchaser's order be in any way inconsistent with the terms and conditions herein, the same shall not be binding on Seller and shall not be considered applicable to the sale. No waiver, alteration, or modification of any of the provisions herein shall be binding unless in writing and signed by an executive officer of Seller at its Home Office in Fresno, California. The failure of Seller to enforce any right Seller may have under the terms and conditions hereof or otherwise shall not constitute a waiver of such right with respect to future occasions for enforcement thereof, nor shall any failure or failures establish any custom or usage. It shall be the obligation of every distributor, dealer, reseller or other person between Seller and the end user to whom such person resells Seller's products to make known to such end user all warranty provisions hereof. **Weir Floway liability under this purchase order shall not include liability for special, incidental, or consequential damages and shall not exceed the purchase order value.**

RETURN OF EQUIPMENT: No equipment shall be returned to Seller without a Return Material Authorization (RMA) and shipping instructions first having been obtained from the Seller.

In the event such authorization is granted by the Seller, the Purchaser must pay the charges in full for transportation to the Seller from the Purchaser and return and clearly mark each item with the appropriate RMA number.

Credit allowed for new, undamaged equipment of current standard design, will be ninety percent of the current invoiced price, or current billing price, whichever is the lesser, less outgoing freight and adjustments. Equipment which, in the Seller's opinion, shows tool marks or effects of use, however slight, will not be accepted for credit. Authorization will not be given for return of material which would in the opinion of the Seller result in an excess in the amount of stock normally carried by Seller. For equipment not manufactured by the Seller, the only credit allowed will be such credit as may be allowed by the manufacturer of such equipment, minus all freight and other expenses incurred by the Seller in handling such equipment. Equipment must be returned within ninety days of delivery to the Purchaser for partial credit to apply. Material must be returned within thirty days of the issuance of an RMA. The foregoing serves only to establish procedure in the event the Seller agrees to accept return of material. It shall in no way act to obligate the Seller to accept the return of material for any reason. If material is returned because of Seller error, full credit and transportation will be allowed the Purchaser.

LABOR: In the event the Purchaser requires and the Seller agrees to furnish the services of a factory technician, a charge shall be made at a rate established by Seller, plus all transportation and living costs and expenses, for all time elapsed at the site of installation and in traveling to and from said site.

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IMPORTANT NOTE

FAILURE TO FOLLOW THESE INSTRUCTIONS MAY CAUSE SERIOUS PERSONAL INJURY OR PROPERTY DAMAGE. STUDY THIS INSTRUCTION MANUAL.

The descriptions and instructions included in this manual cover the standard design of the equipment and any common deviations when possible. This book does not cover all design details and variations nor does it provide for every possible contingency which may be encountered. When information cannot be found in this book, contact the nearest representative.

Do not operate this equipment other than in accordance with the instructions contained in this manual. This equipment (or a prototype) has been shop tested and found satisfactory for the conditions for which it was sold.

The following instructions should be read completely before starting to install the pump. This equipment is capable of extended trouble-free operation when properly applied, installed and maintained. These instructions present the basic information and methods required for proper installation and maintenance of turbine pumps of the size and type indicated on the front cover.

Floway Pumps's standard practice is to ship close coupled pumps assembled. Where long pump lengths, shipping limitations, handling limitations and headroom limitations prevent complete assembly, we will ship the pump sub-assembled. It is the responsibility of the installer to ask for assistance should it be required to properly assemble and install the pump.

CAUTION: The equipment supplied can cause serious personal injury or death if mishandled and extreme care is not exercised in the operation of the equipment. NO ONE SHOULD EVER BE ALLOWED NEAR THE SUCTION OR OPEN DISCHARGE OF THE PUMP DURING OPERATION. A double custody lock should be installed on circuit breaker before anyone should be allowed to do any checking, maintenance or other work on the equipment. If the unit is supplied from the factory with OSHA approved coupling guards they must be kept installed at all times during operation to prevent injury to personnel.

SECTION I

GENERAL INFORMATION AND DESCRIPTION

I-1. GENERAL INFORMATION

There are two basic methods of lubricating the lineshaft of turbine pumps which alters the bowl assembly arrangement accordingly. This pump is:

1. Open lineshaft construction uses the pumped fluid for lubrication. The lineshaft and bearings are "open" to the pumped fluid and depend on this fluid for bearing lubrication. This construction is often referred to as "water lubricated" since water is the most common lubricant. THIS MANUAL IS WRITTEN TO COVER THIS TYPE CONSTRUCTION.

Fig. I-1. BOWL ASSEMBLY GENERAL CONSTRUCTION OPEN LINESHAFT TYPE

I-2. GENERAL DESCRIPTION

The bowl assembly consists of the following basic components:

1. SUCTION BELL - is the inlet of the pump.

The suction bell has a flared entrance and is preferred for sump applications; clip-on type strainers are available for attaching to the bell. The bell has a grease packed bearing with a sand collar over the top of the bearing to keep out abrasives.

2. BOWLS - Two types of bowl are used in bowl assemblies - intermediate and top. A single stage bowl assembly will utilize a top bowl only, this bowl directs the fluid from the impeller into the discharge case. A multiple stage assembly will contain one or more intermediate bowls and one top bowl at the top of the "stack". All bowls contain an impeller mounted on the shaft and a bearing lubricated by the fluid being pumped.

BOWL ASSEMBLY --
OPEN LINESHAFT

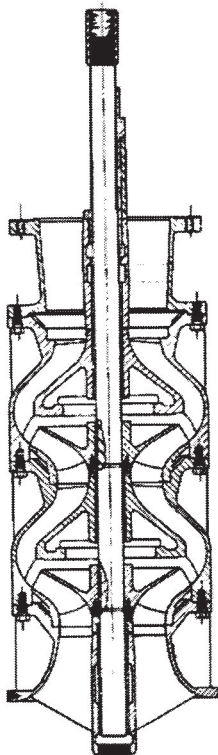
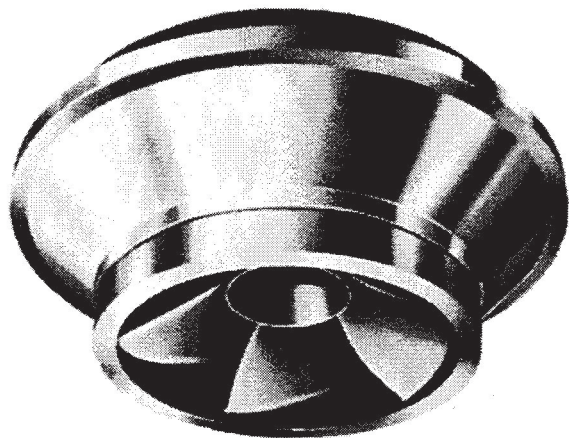


Fig. I-1a

3. IMPELLERS - The impeller type is "enclosed" as shown in Fig I-3.



ENCLOSED TYPE IMPELLER

Fig. I-3. TYPES OF IMPELLERS

I-3. CAUSES FOR REDUCED PERFORMANCE

Before pulling the pump bowl from the well the Installation and Operation Manual should be reviewed for causes of reduced performance not related to the condition of the bowl assembly. Some of the possible causes of reduced performance could be:

1. Incorrect lateral adjustment. (This is especially critical with units utilizing semi-open impellers.)
2. Well conditions such as gas or air in the water.
3. Change in operating conditions such as increased pumping water level or increased discharge head requirements.
4. Slow motor speed due to overload, low voltage or low frequency.
5. Incorrect direction of rotation.
6. Strainer clogged or suction "sanded in".
7. Inadequate submergence of pump suction.

After the pump bowls have been pulled but before sending to the shop for repairs, check the bottom impeller for foreign material such as rocks or wood chips. Also check the strainer for obstructions.

5. BOWL SHAFT - is a one piece shaft extending from the suction bell (or case) thru the intermediate and top bowls where it is connected by a threaded coupling to the lineshaft and hence to the surface mounted driver. The impellers are mechanically connected to the pumpshaft by means keys and bolted split thrust rings. The pumpshaft is supported above and below each impeller by bearings - extra long bearings being employed at top and bottom.

SECTION II DISASSEMBLY

II-1. GENERAL

Floway bowl assemblies are designed for minimum maintenance; frequency of required maintenance will depend on severity of service, accumulate operating hours, and care given to the unit during operation. Periodic performance checks are the best method of determining when repairs should be made. A significant change in the sound of the running pump or an increase in vibration may indicate the need for repairs.

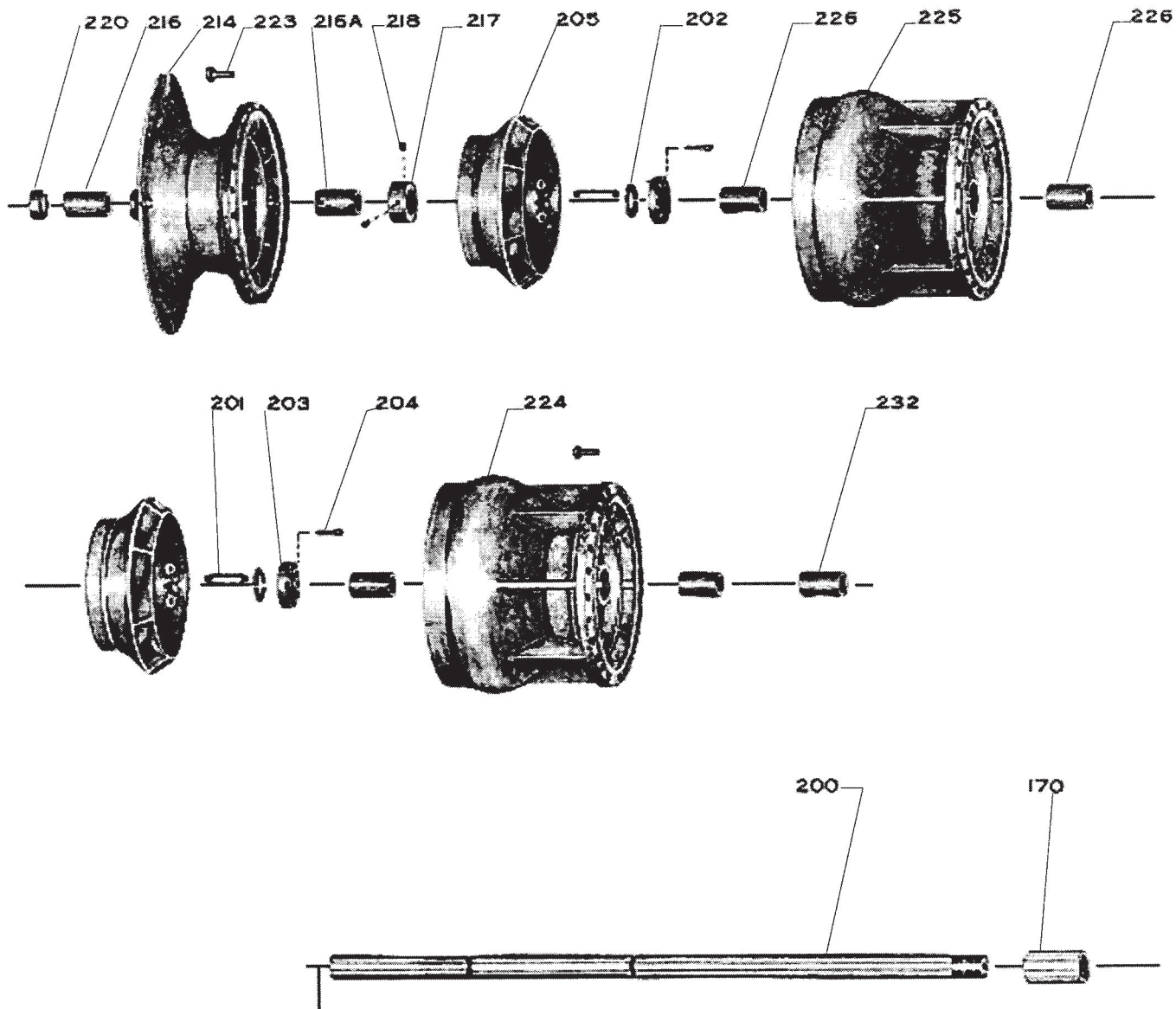
II-2. SHOP REQUIREMENTS

Shop area should be sufficient to lay the parts out in order of disassembly. Parallel steel or wooden rails are recommended for cradling the bowl assembly although repairs can be effected on a flat bench or floor area of sufficient length to support the complete bowl assembly. The area should be kept clean throughout the repairs - remember this is a close toleranced, high speed machine and should be handled as such.

II-3. TOOLS

A good mechanics tool box will supply most of the tools required. The following should be available:

Hammers (both hard and soft), screwdriver, allen wrenches, open or box wrenches, fine flat file, fine triangular file, emery cloth, and wire brush.



SEE CROSS SECTION DRAWING 5535301XS FOR MORE DETAILS.

Fig. II-1. 28FK & 34DK Bowl Assemblies, Exploded View

II-5. DISASSEMBLY - BOWLS

PUMP

Figure II-2 illustrates the parts of the bowl assembly numbered in order of disassembly. The parts reference numbers are in parenthesis as they appear in the text.

In dismantling a bowl assembly for repair, it is advisable to mark the parts so they may be reassembled in the same sequence.

1. Disassemble complete unit in a vertical position supported at the bottom of the suction bell lip to prevent undue strain on the shaft during disassembly.
2. Remove pump shaft coupling (170)

5. Remove cap screws disconnecting top bowl from intermediate bowl (225) and lift bowl off shaft.

NOTE: Use 1" diameter lifting eyes for lifting.

6. Top impeller (206) is now exposed allowing its removal. Remove the eight retainer screws (204) which hold the thrust ring retainer (203), then remove thrust ring retainer from the shaft. The split thrust ring halves (202) are now exposed and can be removed by wedging them apart with a screwdriver. Lift impeller off shaft and remove impeller key (201). Use three-C clamps equally spaced to aid in lifting impeller.
7. Repeat steps (5 & 6) until all intermediate bowls, impellers have been removed.
8. Lift and remove bowlshaft (200) with sand collar (217) from suction bell (214), use shaft coupling to aid in lifting.
9. Loosen two sand collar set screws (218) located 90° apart and slide sand collar off shaft.

II-6. REMOVING BEARINGS

All intermediate bowl bearings (226) (2 piece

are pressed into their respective bores and can be either pressed out or machined on the inside diameter until the wall is thin enough to collapse.

The suction bearing (216) must be pressed out from the bottom or machined on the inside diameter until the wall is thin enough to collapse. See Figure II-3.

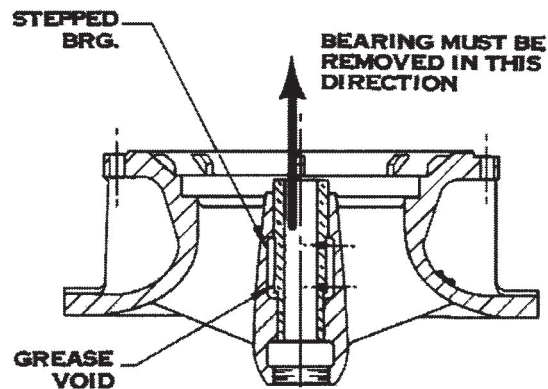


Fig. II-3. Removing

Suction Bearing

SECTION III INSPECTION AND REPAIR

III-1. INSPECTION AND CLEANING

After disassembly, all components of the bowl assembly should be thoroughly cleaned and examined for physical defects. The following components should be inspected for wear, corrosion and damage:

1. **Impellers** - check fluid passageways for signs of damage from abrasion or corrosion, check impeller skirts against original dimension shown in Figure III-1.
2. **Shaft** - check shaft for pitting and wear, "as new" dimensions are shown in Figure III-1. Check for straightness - shaft must be straight within .005 total indicator reading.
3. **Bowls** - check water passageways for signs of damage from abrasion or corrosion, check impeller seat against original dimension shown in Figure III-1.
4. **Bearings** - check all bearings for total clearance over the shaft diameter. It is recommended that all bearings indicating wear be replaced. The following indicates suggested maximum diametrical clearance over existing shaft diameter:

2-7/16" through 1-11/16" shaft - .020" clearance
3-7/16" and larger shafts - .025" clearance

PUMP SIZE	SHAFT DIA.	NOMINAL DIAMETRICAL CLEARANCE - SHAFT O.D. TO BEARING I.D.*	NOMINAL DIAMETRICAL CLEARANCE - IMPELLER SKIRT O.D. TO BOWL SEAL I.D.	NOMINAL DIAMETRICAL CLEARANCE - IMPELLER SKIRT O.D. TO WEAR RING I.D.	NOMINAL DIAMETRICAL CLEARANCE - IMPELLER WEAR RING O.D. TO BOWL WEAR RING I.D.	AXIAL CLEARANCE END PLAY
26-42 KH	2 11/16	.009	.020	.019	.025	5/8
34-42 KH	3 7/16	.012	.028	--	.029	5/8
TOLERANCES: SHAFT DIAMETER = +.000 - .002 BEARING CLEARANCE = ± .002 IMPELLER SKIRT TO BOWL (WITH WEAR RINGS) = ± .004 *BEARING PRESSED INTO HOUSING						
NOTE: DIMENSIONS SHOWN ARE FOR STANDARD CONSTRUCTION - SPECIAL MATERIALS OR CONSTRUCTION MAY CAUSE THESE TO CHANGE.						

Fig. III-1. BOWL ASSEMBLY DIMENSIONS AND TOLERANCES

III-2. TROUBLE SHOOTING

TROUBLE SOURCES	PROBABLE CAUSE	REMEDY
Hooked shaft.	Bent in installation.	Replace shaft. Check bushings.
Misalignment of tubing bearings and adaptors.	Improperly assembled.	Reassemble and check. If still out of alignment, replace the bearing.
Wear on shaft at seals.	Natural wear - Corrosive or abrasive action.	Replace shaft and seals.
Uneven wear on bearings.	Misalignment of shafts. Crooked Shaft.	Replace bearings and straighten or replace shaft.
Wear on bearings.	Abrasive action.	Replace bearings.
Wear on bowl seal and impeller skirt.	Abrasive action.	Apply wear rings (Figure II-3) if damage to bowl and impeller not too great.
Wear on bowl vanes and outside wall.	Abrasive action.	Replace bowls if wear is excessive.
Wear on impeller vanes and shroud.	Abrasive action.	Replace impellers if wear is excessive.

Fig. III-2. TROUBLE SHOOTING CHART

III-3. REPAIRS

Parts showing signs of damage, cracks or excessive wear should be replaced. Use only genuine Floway parts for replacements. Order replacement parts as indicated in Section V.

CAUTION: When repairing a bowl assembly that has been in service for several years, the physical condition or strength of all parts such as cap screws, bowls and bowl threads must be carefully checked.

CAUTION: When attempting to re-work any part extreme care must be taken to maintain alignment of mating parts and original tolerances.

A. REPLACING BEARINGS

Replacement bearings are furnished "to size" for press fitting into their respective bores with a .002" to .004" interference fit, if the bearing bore is heavily scarred or corroded the part should be replaced or reworked to provide a true bore for the bearing.

B. REPLACING SHAFT

Shaft damage is usually best corrected by replacing the shaft. If an attempt is made to rebuild the shaft, the O.D. must be held within the tolerance shown in Figure III-1 and straight within .005" total indicator reading. Due to the possibility of interim damage, replacement shafts should always be checked for straightness before installing.

C. REPAIRING ENCLOSED IMPELLER AND BOWL SEAL SURFACES

Enclosed impeller skirt and bowl seal surface wear can be corrected by installing wear rings if the damage is not excessive. This is usually accomplished by turning the impeller skirt to obtain a smooth surface and then boring the bowl and installing wear rings on either, or both, surfaces. If the original unit was furnished with either bowl or impeller (or both) wear rings, these should be removed completely and replaced.

When wear rings are installed on the impeller it is recommended that a shrink fit be utilized - the interference should be .008 to .013 to prevent slippage. Sufficient heat is then applied to the wear ring to expand it and allow the wear ring to drop over the impeller.

When wear rings are installed in the bowl a .002" to .006" press fit should be used. The wear ring can be installed by carefully tapping or pressing into place. A wooden block should be used to protect the wear ring.

III-4. LUBRICATION

Repack suction bearing with insoluble grease such as Marfax #2. Lubricate all bearings and impeller skirts with clean grease or oil. Thoroughly clean all bolts, nuts, threaded connections, and flanges and paint with light oil, or grease.

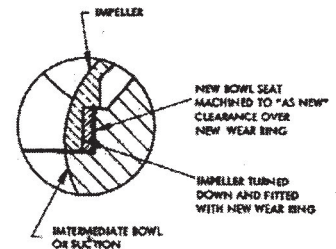
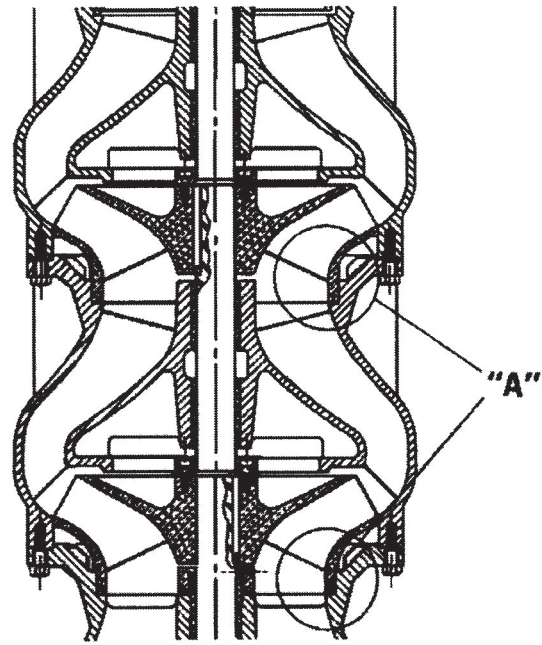


Fig. III-3. Repairing Enclosed Impeller and Bowl Seal Surfaces

SECTION IV ASSEMBLY

Assembly of the unit is basically the reverse of disassembly. Before proceeding with assembly, clean thoroughly and check all threads, registers and mating faces for burrs. Clean up with file where required. Lubricate as outlined in paragraph III-4.

CAUTION: Cleanliness and proper lubrication are very important since one small chip, burr or one dry bearing can be cause for redoing the whole job.

Assembly procedure is as follows:

The parts reference numbers refer to Figure II-2 (Page 4 and 5).

1. Check shaft closely for nicks or burrs - smooth with emery cloth as required.
2. Check shaft for straightness - shaft must be straight within .005" total indicator reading. Figure IV-1 indicates a recommended method for checking shaft straightness. If the shaft is not straight it must be straightened or replaced. If the deflection is gradual over a considerable length the shaft can usually be straightened by supporting on two blocks straddling the crooked section and applying pressure to the high side to deflect the shaft in the opposite direction. If the shaft has a sharp crook (dog-leg) it is recommended that the shaft be replaced since the shaft will not always remain straight even if satisfactorily straightened.

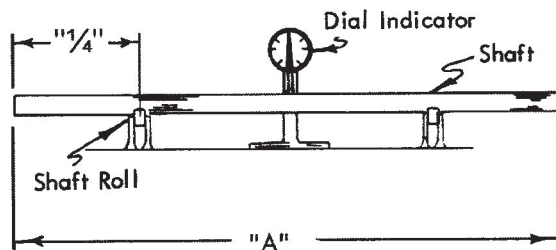


Fig. IV-1. CHECKING SHAFT FOR STRAIGHTNESS

3. Assemble complete unit in a horizontal position, support unit to prevent undue strain on shaft during assembly.

4. Beginning at the discharge end, slide top bowl (224) onto bowlshaft (200).

5. Insert impeller key (201) into bowlshaft keyway. Slide impeller (205) onto bowlshaft align and slip over impeller key. Insert split thrust ring halves (202) into bowlshaft. Slide thrust ring retainer (203) onto bowlshaft and over split thrust ring. Slide impeller so that it rests against the split thrust ring retainer and secure thrust ring retainer to impeller with four retainer screws (204). Torque retainer screws as required per Figure IV-2.

FASTNER SIZE	1/2	5/8	3/4	1
TORQUE (FT.-LB.)	40	84	135	245
Torque values shown are for standard fasteners lubricated with a high stress lubricant (graphite and oil, moly-disulphite, etc.).				

Fig. IV-2. TORQUE VALUES FOR STANDARD FASTENERS

6. Slide intermediate bowl (225) onto bowlshaft and seat against impeller. Rotate bowls to align ribs and fasten with capscrews, torque as required.
7. Repeat steps 5 and 6 until all bowls and impellers have been assembled.
8. Slide sand collar (217) onto bowlshaft. Do not secure sand collar until step 10.
9. Slide suction bell (214) onto bowlshaft and fasten with cap screws, torque as required.
10. Slide sand collar down until it rests against the bearing housing of the suction bell, with the shaft pushed to the extreme downward position (impellers must be seated) tighten sand collar set screws (218) located 900 apart.
13. Rotate shaft by hand to check for binding, also check end play by puffing all the way up and measuring distance traveled. Check this against end play shown in Figure III-1.

14. If the suction bearing cavity was not packed with grease previously this should be done now. After greasing work shaft up and down several times to remove excess grease.

NOTE: Remove enough grease so that plug will not force shaft up when installed.

15. Install suction bell plug (220) and tighten.

16. Check bolts and nuts for proper torque.

17. Apply thread lubricant to shaft coupling (170) and screw into bowlshaft, threads are left hand.

SECTION V PARTS

V-1. ORDERING PARTS

When ordering spare or replacement parts **the pump serial number** and size and type of pump must be given. This can be found on the nameplate furnished with the unit. Give the complete name and reference number of each part as indicated on the applicable sectional drawing (Fig. V-1, V-2, or V-3) and the quantity required.

V-2. STOCKING SPARE PARTS

Spare parts to be kept in inventory will vary according to service, field maintenance anticipated, allowable down time and number of units. A minimum inventory of one complete set of bearings, gaskets, "O" rings, and packing (or Mechanical seal) and one spare of each moving part is suggested.

V-3. RETURNING PARTS

All materials returned to the factory must be accompanied by a Returned Material Authorization (RMA) number. An RMA number can be obtained directly from the factory or through your local Dealer or local District Manager. The RMA Form must be filled in completely and forwarded as directed thereon. Parts being returned under warranty claim must have a complete written report submitted with the RMA Form.

CAUTION: Returned material must be carefully packaged to prevent transit damage - factory cannot assume any responsibility for parts damaged in transit.

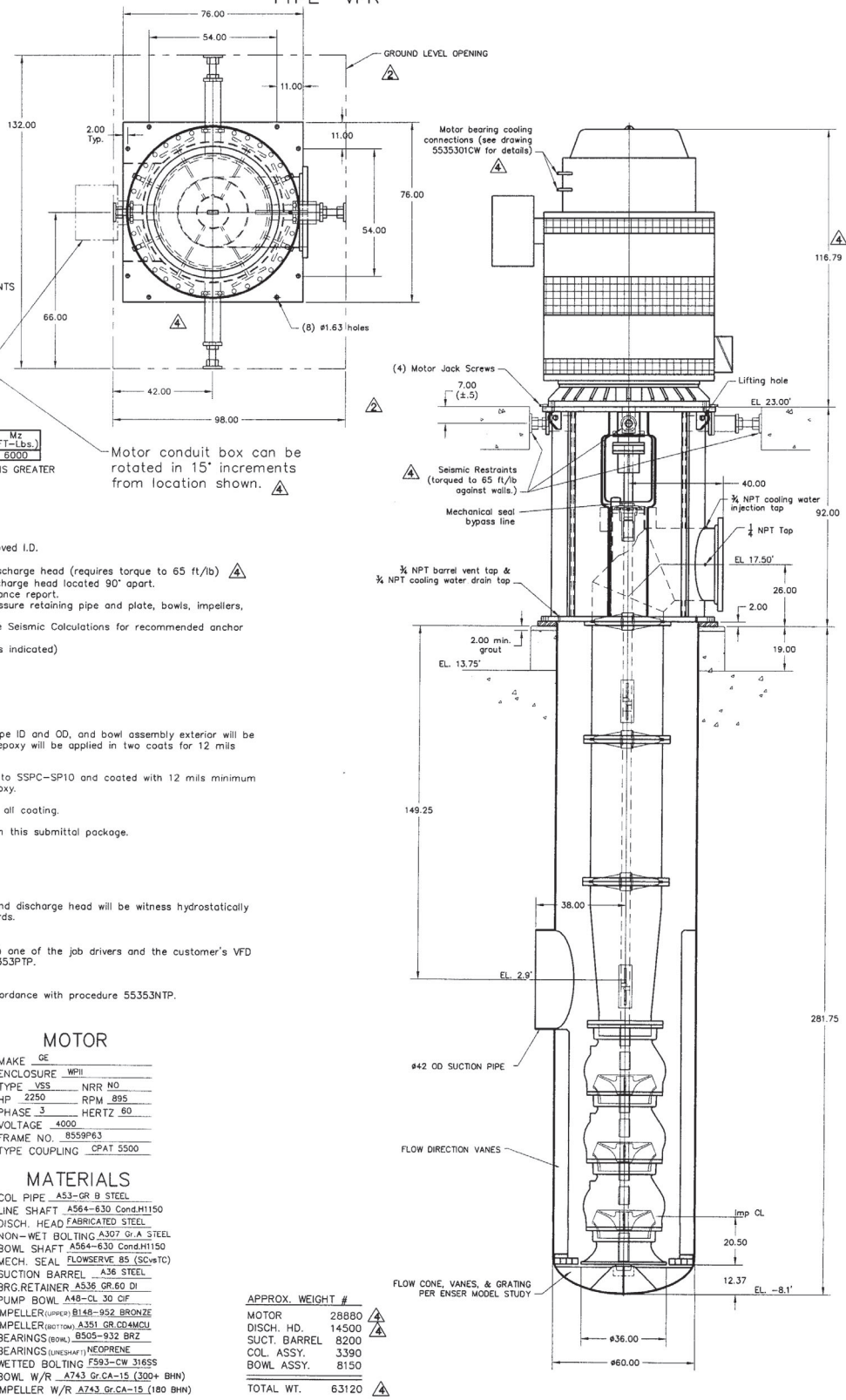
Who to contact for spare parts

1. Contact local authorized Floway Dealer or Representative.
2. If unable to locate an authorized Representative, call Floway's Factory Parts Department for the name of the nearest local contact:
Fresno, CA (209) 442-4000
Houston, TX (713) 458-9240

VERTICAL TURBINE PUMP TYPE "VFR"

THIS DRAWING IS
CERTIFIED
 FOR APPROVAL
NO PRODUCTION WILL START
UNTIL APPROVED IN WRITING
 FOR CONSTRUCTION
PRODUCTION HAS STARTED.
ANY CHANGES MAY AFFECT
PRICE AND DELIVERY.

OUR ORDER No.: 55353-1
CUST. ORDER No.: 501034
BY: TL DATE: 12/20/05



MAXIMUM ALLOWABLE FLANGE FORCES AND MOMENTS FOR VERTICAL TURBINE PUMPS

FLANGE SIZE	Fx & Fy (Lbs.)	Fz (lb)	Mx & My (FT-Lbs.)	Mz (FT-Lbs.)
30	1200	2400	3000	6000

REFER TO FACTORY WHEN FLANGE REQUIREMENT IS GREATER

SPECIAL FEATURES:

- All bearings supplied with spiral grooved I.D.
- Keyed lineshaft couplings
- Motor jacking screws supplied on discharge head (requires torque to 65 ft/lb)
- Seismic restraints (4) bolted to discharge head located 90° apart.
- Dynamic balanced impellers with balance report.
- Material certificates supplied for pressure retaining pipe and plate, bowls, impellers, shafting, & wear rings.
- Anchor bolts supplied by others. See Seismic Calculations for recommended anchor bolt detail.
- Spare Parts (one set per unit unless indicated)
 - All pump bearings
 - One set wear rings
 - One mechanical seal

COATING:

The discharge head ID and OD, column pipe ID and OD, and bowl assembly exterior will be cleaned per SSPC-SP-10. Carboline 891 epoxy will be applied in two coats for 12 mils minimum total DFT.

The barrel ID and OD will be sandblasted to SSPC-SP10 and coated with 12 mils minimum DFT of Scotchkote 134 Fusion Bonded Epoxy.

Holiday and thickness tests performed on all coating.

Please refer to the coating data sheets in this submittal package.

TESTING:

Hydrostatic testing:
The bowls, column pipes, suction barrel, and discharge head will be witness hydrostatically tested in accordance with API 610 standards.

Performance testing:
Pumps will be witness tested as units with one of the job drivers and the customer's VFD in accordance with the test procedure 55353PTP.

NPSH testing:
Pumps will be witness NPSH tested in accordance with procedure 55353NTP.

DISCH. FLANGE	MOTOR
30 150# -R.F. ANSI. FLG. (28) #1.30 DIA. HOLES * 38.00 DIA. BOLT CIRCLE 38.75 DIA. FLANGE * BOLT HOLES STRADDLE VERTICAL	MAKE GE ENCLOSURE WPH TYPE VSS NRR NO HP 2250 RPM 895 PHASE 3 HERTZ 60 VOLTAGE 4000 FRAME NO. 8559P63 TYPE COUPLING CPAT 5500

PUMPAGE	MATERIALS
FLUID SECONDARY EFFLUENT SPEC. GRAVITY 1.0 VISCOSITY 1.0 cSt TEMPERATURE 89° - 75° F. PH 6.5-7.5	COL PIPE A53-GR B STEEL LINE SHAFT A564-630 Cond.H1150 DISCH. HEAD FABRICATED STEEL NON-WET BOLTING A307 Gr.A STEEL BOWL SHAFT A564-630 Cond.H1150 MECH. SEAL FLOWSERVE 85 (SC-w/TC) SUCTION BARREL A36 STEEL BROG. RETAINER A36 GR 60 DI PUMP BOWL A48-CL 30 CIF IMPELLER (UPPER) B148-952 BRONZE IMPELLER (BOTTOM) A351 GR CD4MCL BEARINGS (BOWL) B505-932 BRZ BEARINGS (LINESHAFT) NEOPRENE WETTED BOLTING F593-CW 316SS BOWL W/R A743 Gr.CA-15 (300+ BHN) IMPELLER W/R A743 Gr.CA-15 (180 BHN)

APPROX. WEIGHT #

MOTOR	28880
DISCH. HD	14500
SUCT. BARREL	8200
COL ASSY.	3390
BOWL ASSY.	8150
TOTAL WT.	63120

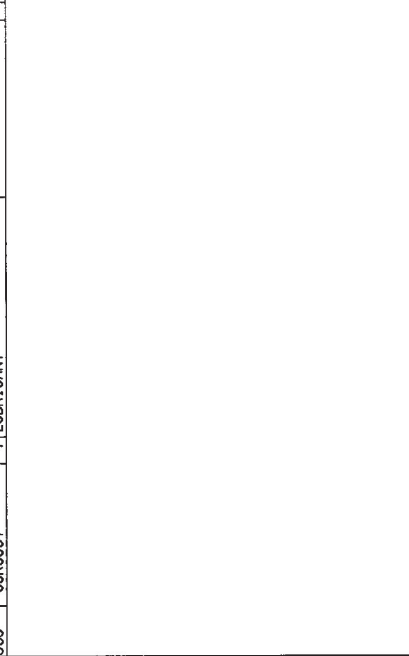
<p>LOCATION: ORANGE COUNTY WATER DISTRICT PRODUCT WATER PUMP STATION</p> <p>CUSTOMER: J.F. SHEA CONSTRUCTION, INC. 667 BREA CANYON ROAD, SUITE 30 WALNUT, CA 91788-0489</p> <p>FLOWAY CO: 55353-1 PUMP SERIAL #: 55353-1-1/2/3 TAG NUMBER: PRODUCT WATER PUMPS A01.2.3-PMP-3400</p>	<p>NOTES:</p> <ol style="list-style-type: none"> ALL DIMENSIONS IN INCHES DRAWING SCALE = 1:46 DO NOT SCALE UNKNOWN DIMENSIONS NOT TO BE USED FOR CONSTRUCTION UNLESS CERTIFIED <table border="1"> <thead> <tr> <th>REV</th> <th>BY</th> <th>DATE</th> <th>DESCRIPTION</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>TL</td> <td>4/18/05</td> <td>Updated seismic restraint, Certified for Construction.</td> </tr> <tr> <td>2</td> <td>TL</td> <td>6/30/05</td> <td>Updated per returned submittal comments.</td> </tr> <tr> <td>3</td> <td>TL</td> <td>10/27/05</td> <td>Updated motor height and weight.</td> </tr> <tr> <td>4</td> <td>TL</td> <td>12/20/05</td> <td>Updated motor height, head construction, & weights.</td> </tr> </tbody> </table>	REV	BY	DATE	DESCRIPTION	1	TL	4/18/05	Updated seismic restraint, Certified for Construction.	2	TL	6/30/05	Updated per returned submittal comments.	3	TL	10/27/05	Updated motor height and weight.	4	TL	12/20/05	Updated motor height, head construction, & weights.	<p>OUTLINE DRAWING</p> <p>DRAWN BY: TL DATE: 11/11/04 DRAWING NUMBER 5535301C0D</p>
REV	BY	DATE	DESCRIPTION																			
1	TL	4/18/05	Updated seismic restraint, Certified for Construction.																			
2	TL	6/30/05	Updated per returned submittal comments.																			
3	TL	10/27/05	Updated motor height and weight.																			
4	TL	12/20/05	Updated motor height, head construction, & weights.																			

NO: 05LPX759015 REV: A

BILL OF MATERIAL NO: 85-30SVX

1 SUGGESTED SPARE PARTS
2 CODE/REV./QTY/GR./STD/ID

NO	PARTCODE	QTY	DESCRIPTION	MATERIAL
1	1SLS430X	1	SLEEVE	316
11	0EB40378030X	1	GLAND	316
13	568244GU	1	SEAT GASKET	FLUOROELASTOMER
14	4SIT630XN6	1	STATIONARY FACE	TUNGSTEN CARBIDE
15	4RTSC30X	1	ROTATING FACE	SILICON CARBIDE
16	55GH001	21	COIL SPRING	ALLOY C-276
18	3666030X	1	GLAND GASKET	NYLON (FDA GRADE)
19	568240GU	1	SLEEVE GASKET	FLUOROELASTOMER
57	4R0428DY	6	SSCP 1/4-20X3/8	ALLOY 20
58	1CRS430X	1	DRIVE COLLAR	316
59	5CB5411	3	BOLT	18-8
76	568156GU	1	ROT. FACE GASKET	FLUOROELASTOMER
100	1SIS430X	1	STATIONARY FACE SUPPORT	316
5	WKA8840254	3	PIN	ALLOY 20
103	5CLBA01	3	SETTING DEVICE	BRONZE
111	US381CK	1	SNAP RING	18-8
167	5P6SM02	1	PIPE PLUG	316
183	3GRN030X	1	VIBRATION DAMPER	DMC 340
341	AWP8401	1	INSTALLATION KIT	
25	MNA21617201	1	KEY 0.125	CARBON STEEL
413	6CWSA01	1	HEX WRENCH	CARBON STEEL
353	6GR0001	1	LUBRICANT	



API PLAN 13
REGISTRATION FROM SEAL CHAMBER THROUGH FLOW CONTROL ORIFICE AND BACK TO PUMP SUCTION
MAINTAIN SEAL CHAMBER PRESSURE 85 PSI (1.9LPM) OR MAKE ABOVE PRODUCT VAPOR PRESSURE AT PUMP OPERATING CONDITIONS TO PREVENT FLASHING AT SEAL FACES.

FLUSH (INJECTION) RATE: .5 GPM (1.9 LPM)
PIPING REQUIREMENTS
CUSTOMER: FLOWAY PUMPS
ADDRESS: FRESNO, CA
ULTIMATE USER: ORANGE COUNTY WATER DISTRICT
ADDRESS: ORANGE COUNTY, CA

SEAL TYPE: 85
SEAL CONFIG: SINGLE INSIDE-CARTRIDGE
MATERIAL CODE: 85 - 30 S V X
EQUIP MFR: FLOWAY PUMPS
EQUIP MODEL:
EQUIP DWG:

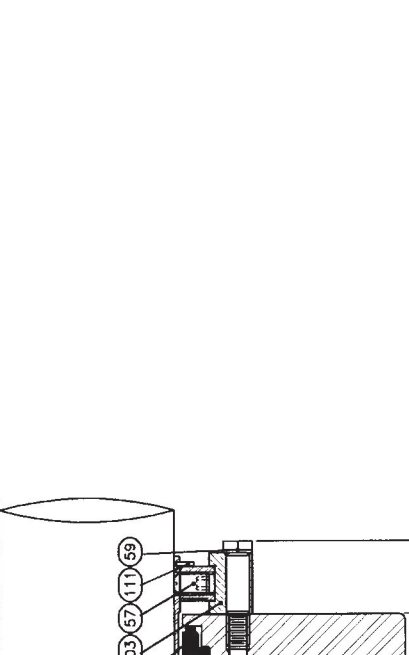
CUSTOMER P.O.: 186458
EQUIP SERIAL NO.: 55353-1-1/2/3
EQUIP ITEM NO.: A01,2,3-PMP-3400
API PLAN: 13

SCALE: TO SCALE
DRAWN: MRUSTHOVEN
DATE: 26-JUL-2006
CHKD: MRUSTHOVEN
APPVD:
F.O. NO: 05LPX759015

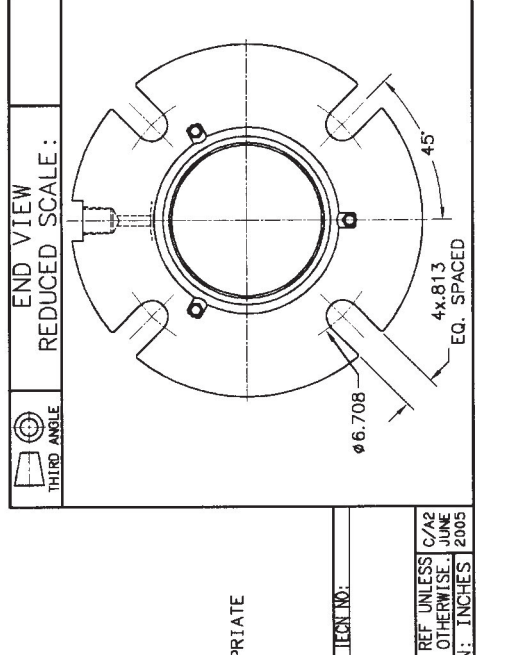
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SIZE CODE:
DESIGN:
INSTR:

OPTIONS:
REF DWG:
FORM DWG:
ASSY/ORDER NO.:
SHEET: 1 OF 1
REV: A

05LPX759015
Flow Solutions Division
F.O. NO: 05LPX759015



[F] FLUSH 3/8" NPT (PLUGGED)
THIRD ANGLE
END VIEW
REDUCED SCALE:



1. FOR INSTALLATION AND OPERATING INSTRUCTIONS SEE APPROPRIATE FLOWSERVE INSTALLATION SHEET (FIS).

2. DISENGAGE SETTING DEVICE (103) BEFORE START-UP.

REVISION: A DATE: 26-JUL-2006 BY: MRUSTHOVEN
TECH NO:
REVISION NOTE: RELEASE TO MANUFACTURING

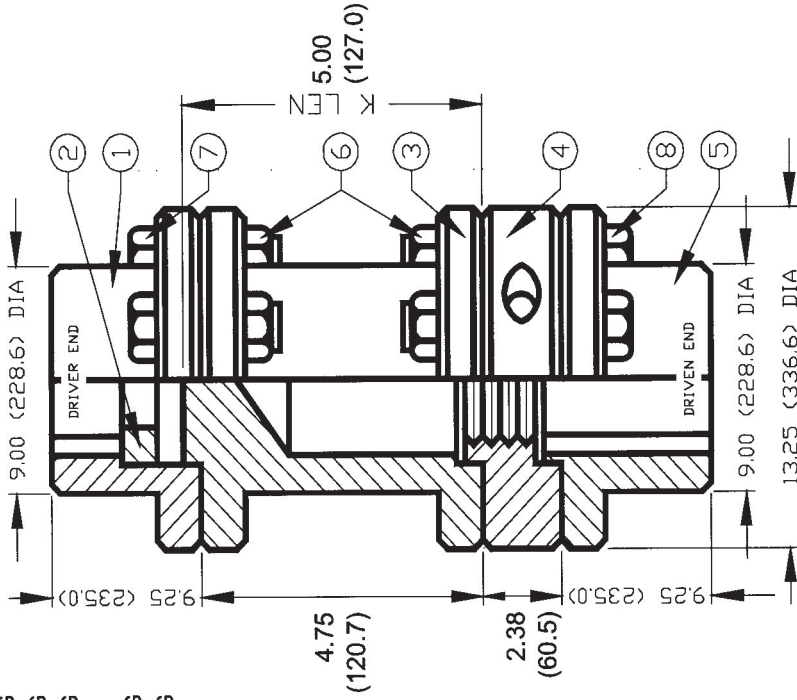
THIS DRAWING AND ANY DESIGN, DEVELOPMENT, INVENTION OR COPYRIGHT WHICH IT MAY EMBODY OR REPRESENT ARE THE PROPERTY OF FLOWSERVE CORPORATION. THIS DRAWING MAY NOT BE REPRODUCED, NOR ANY SUBJECT MATTER SHOWN HEREIN MAY BE MANUFACTURED, WITHOUT WRITTEN PERMISSION FROM AN AUTHORIZED AGENT OF FLOWSERVE CORPORATION.

DIM'S ARE REF UNLESS C/A2 SPECIFIED OTHERWISE.
DIM'S IN: INCHES 2005

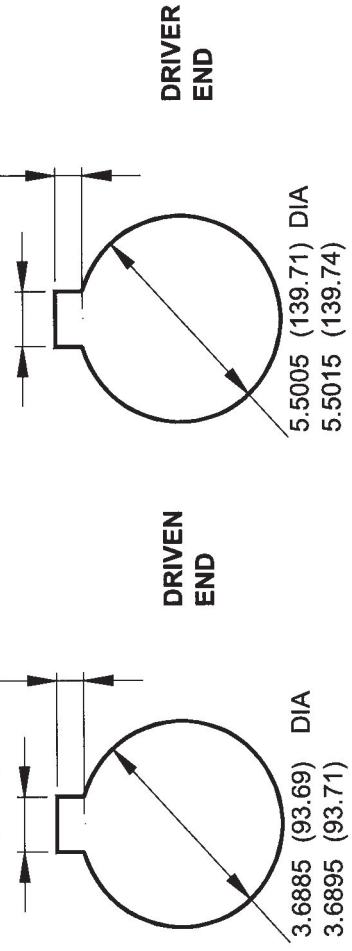
A HCA4460-638114-1

G = GLOBAL
 REF 7 & 8 TO BE TIGHTEND TO 835 (1132)
 Lbs ft N/m

REF	PART NAME	PART NUMBER	MATERIAL	QTY
1	MOTOR HUB	HCP5370-0285	AISI-1040	1
2	SPLIT RING	HC8016-0904-0402	AISI-1018	1
3	SPACER	HC8017-6001-1270-0402	AISI-1018	1
4	ADJUSTING NUT	HC8018-6000-0402	AISI-1018	1
5	PUMP HUB	HC8019-6000-0285	AISI-1018	1
6	LOCK NUT	HC916-0009-1130	ISO Gr.10/Nylon/Zinc plate	20
7	SHORT BOLT	HC918-0014-0423	SAE grade 8	10
8	LONG BOLT	HC918-0021-0423	SAE grade 8	10



0.8750 (22.23)	0.4375 (11.11)	1.2500 (31.75)	0.6250 (15.88)
0.8780 (22.30)	0.4531 (11.51)	1.2535 (31.84)	0.6406 (16.27)



- STRAIGHT
- PULLER HOLES 0.625-11 UNC-2B
- MARK: **X159**
- ADJUSTING NUT THREAD 4.7500 (120.65)
- 3.688-8NS-2B RH 0.7500 (19.05)
- MARK: **Z131**

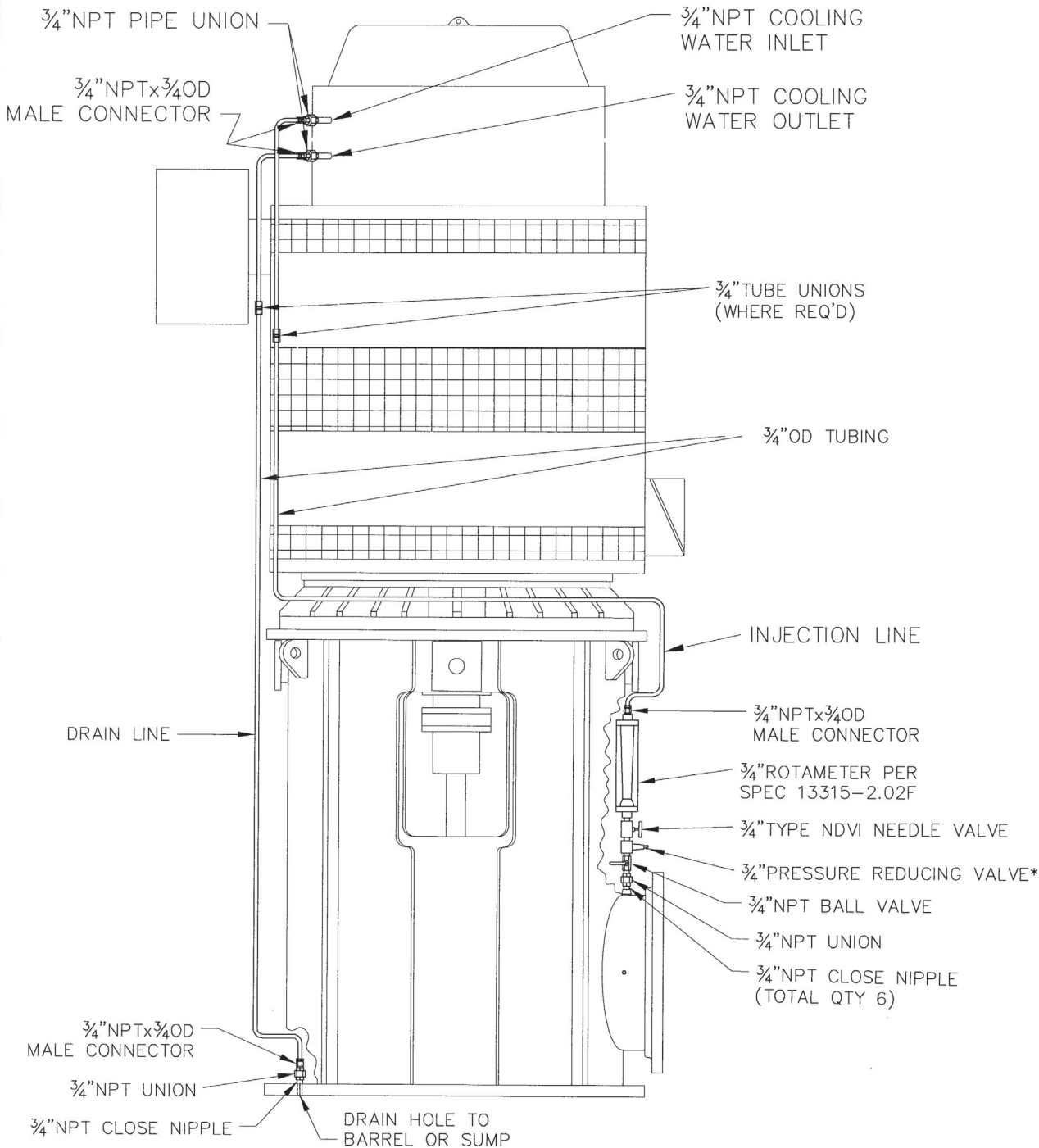
- STRAIGHT
- PULLER HOLES 0.625-11 UNC-2B
- MARK: **638114-1-M**
- SPLIT RING BORE = 4.7500 (120.65)
- SPLIT RING WIDTH = 0.7500 (19.05)

ALL DIMENSIONS INCHES (MM)

CUSTOMER:	FLOWAY PUMPS INC.		
CUSTOMER P.O.:	186456		
CUSTOMER REF.:	JOB # 113221-7-10-1		
DRIVER:	MOTOR	DRIVEN:	PUMP
SPEED [RPM]:	895	POWER [HP (KW)]:	2250 (1680)
WORK ORDER NO.:	S638114-1	QTY.:	3
DESIGNATION:	CPAW-6000-0049-H127		
	JOHN CRANE FLEXIBOX		
	2407 ALBRIGHT HOUSTON TEXAS 77017 TEL: 713-944-6690		
	METASTREAM COUPLINGS	A	HCA4460-638114-1

REV	BY	APP	DATE	ER
-	-	-	-	-
A	SJM	BD	04-27-05	-

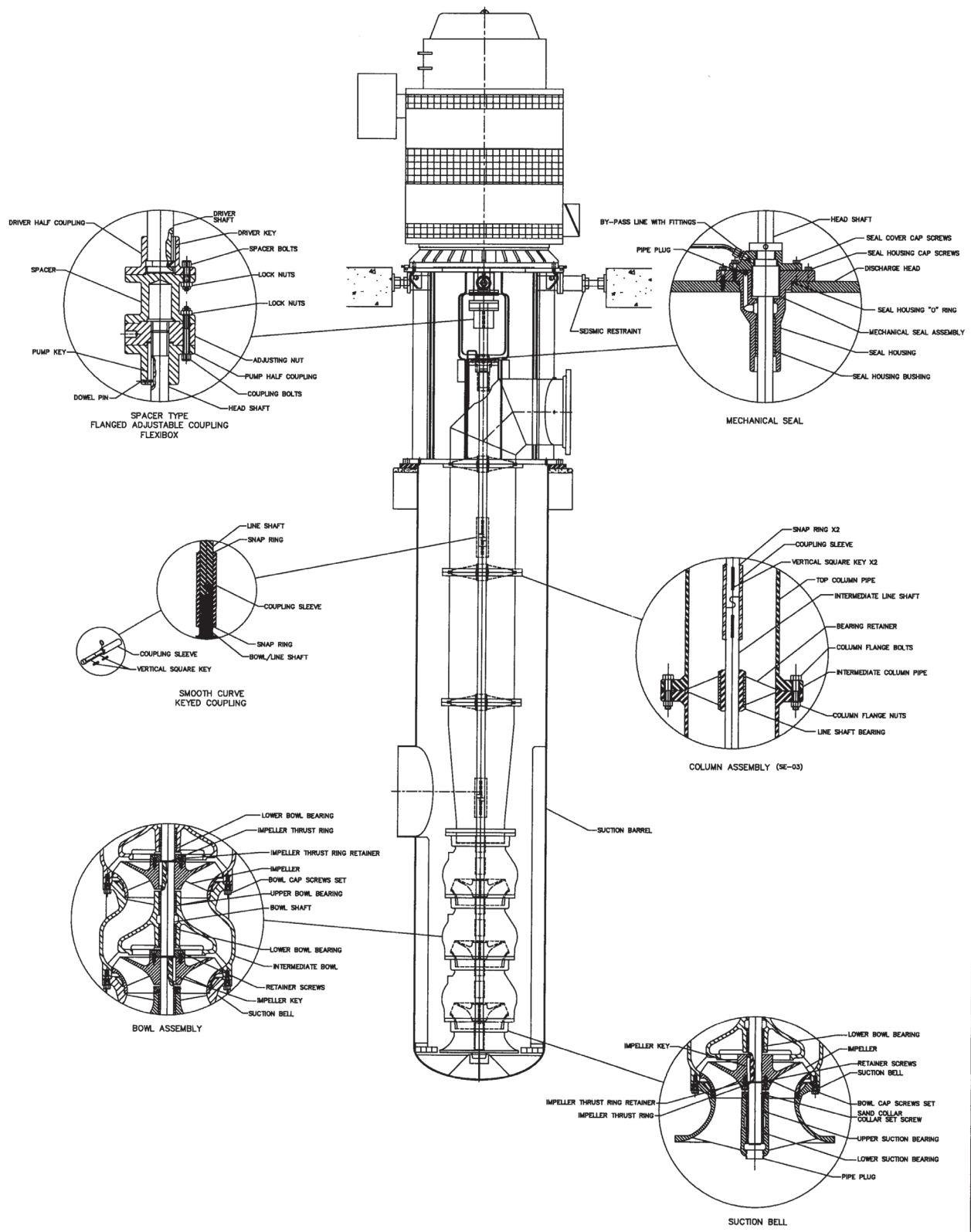
MOTOR THRUST BEARING WATER COOLING



-ALL VALVES, FITTINGS, & TUBING 316SS.

*PRESSURE REDUCING VALVE:
CASH VALVE MODEL B-95 #19614-VMS

<p>LOCATION: ORANGE COUNTY WATER DISTRICT RO TRANSFER PUMP STATION</p> <p>CUSTOMER: J.F. SHEA CONSTRUCTION, INC. 667 BREYA CANYON ROAD, SUITE 30 WALNUT, CA 91788-0489</p> <p>FLOWAY CO: 55353-1 PUMP SERIAL #: 55353-1-1/2/3</p> <p>TAG NUMBER: PRODUCT WATER PUMPS A01,2,3-PMP-3400</p>	<p>NOTES: 1. ALL DIMENSIONS IN INCHES 2. DRAWING SCALE - - - - 3. DO NOT SCALE UNKNOWN DIMENSIONS 4. NOT TO BE USED FOR CONSTRUCTION UNLESS CERTIFIED</p> <table border="1"> <thead> <tr> <th>REV</th> <th>BY</th> <th>DATE</th> <th>DESCRIPTION</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>	REV	BY	DATE	DESCRIPTION													<p>MOTOR BEARING WATER COOLING DETAILS</p> <p>DRAWN BY: TL</p> <p>DATE: 10/14/05</p> <p>DRAWING NUMBER 5535301CW</p>
REV	BY	DATE	DESCRIPTION															



REV	DESCRIPTION	DATE	BY

END USER:	ORANGE COUNTY WATER DISTRICT	IMP. MODEL:	34-42KH	P.E.:	DATE:
SUPPLIER:	----	No. OF STAGE(S):	3		
TAG NUMBER:	A01,2,3-PMP-3400	No. UNIT(S):	3		
SERIAL #:	55353-1-1,2,3				



CROSS SECTIONAL
DWG No.: 5535301XS



EXHIBIT B

EVALUATION CRITERIA

ORANGE COUNTY WATER DISTRICT PROPOSAL EVALUATION

FORM Project: FPWP A01 Pump Inspection and Refurbishment (RFP-24-012)

Proposing Firm: _____

Reviewer: _____

Criteria	Weighting (%)	Score (1-5)	Weighted Score	Comments
1 Project Approach and Schedule	25		0.00	
2 Experience and Qualification of the Project Manager, Project Team, and Proposing Firm	25		0.00	
3 Time Commitment of Key Staff and Organization Support Services	10		0.00	
4 Price Proposal	25		0.00	
5 Record of Success on Recent Similar Projects	15		0.00	
Total	100		0.00	

Scoring:

- 5 = Excellent
- 4 = Above Average
- 3 = Average
- 2 = Below Average
- 1 = Poor



OCWD RFP-24-012 - FPWP A01 INSPECTION AND REFURBISHMENT SERVICES

EXHIBIT C

SERVICES AGREEMENT

AGREEMENT NO. ***

with

for

This Agreement (the "Agreement") is made and entered into as of ***, by and between the ORANGE COUNTY WATER DISTRICT, a special governmental district organized and operating under the laws of the State of California (hereinafter "OCWD") and *** ("Contractor"). (The term Contractor includes professionals performing in a consulting capacity.)

PART I
FUNDAMENTAL TERMS

- A. Location of Project: ***.
- B. Description of Services/Goods to be Provided: *** in accordance with PART IV, Scope of Services, included herein.
- C. Term: Unless terminated earlier as set forth in this Agreement, the services shall commence on *** ("Commencement Date") and the term of this Agreement shall continue through its expiration on ***.
- D. Party Representatives:
- D.1. OCWD designates the following person/officer to act on OCWD's behalf: ***
- D.2. Contractor designates the following person to act on Contractor's behalf: ***
- E. Notices: All notices and other writings required to be delivered under this Agreement to the parties shall be delivered at the addresses set forth in Part II ("General Provisions").
- F. Attachments: This Agreement incorporates by reference the following Attachments to this Agreement:
- | | | |
|------|-----------|--------------------|
| F.1. | Part I: | Fundamental Terms |
| F.2. | Part II: | General Provisions |
| F.3. | Part III: | Special Provisions |
| F.4. | Part IV: | Scope of Services |
| F.5. | Part V: | Budget |

G. Integration: This Agreement represents the entire understanding of OCWD and Contractor as to those matters contained herein. No prior oral or written understanding shall be of any force or effect with regard to those matters covered by this Agreement. This Agreement supersedes and cancels any and all previous negotiations, arrangements, agreements or understandings, if any, between the parties, and none shall be used to interpret this Agreement.

IN WITNESS WHEREOF, the parties have executed and entered into this Agreement as of the date first set forth above.

ORANGE COUNTY WATER DISTRICT

By: _____
John C. Kennedy, General Manager

By: _____

Title: _____

By: _____
Denis Bilodeau, Board President

By: _____

Title: _____

Dated: _____

APPROVED AS TO FORM:

Contractor Information:

RUTAN & TUCKER, LLP

Address for Notices and Payments:

By: _____
Jeremy N. Jungreis, General Counsel

Attention: ***

Telephone: ***

Facsimile No.: ***

PART II
GENERAL PROVISIONS

SECTION ONE: SERVICES OF CONTRACTOR

1.1 Scope of Services. In compliance with all terms and conditions of this Agreement, Contractor shall provide the goods and/or services shown on Part IV hereto ("Scope of Services"), which may be referred to herein as the "services" or the "work." If this Agreement is for the provision of goods, supplies, equipment or personal property, the terms "services" and "work" shall include the provision (and, if designated in the Scope of Services, the installation) of such goods, supplies, equipment or personal property.

1.2 Changes and Additions to Scope of Services. OCWD shall have the right at any time during the performance of the services, without invalidating this Agreement, to order extra work beyond that specified in the Scope of Services or make changes by altering, adding to, or deducting from said work. No such work shall be undertaken unless a written order is first given by OCWD to Contractor, incorporating therein any adjustment in (i) the Budget, and/or (ii) the time to perform this Agreement, which adjustments are subject to the written approval of the Contractor. It is expressly understood by Contractor that the provisions of this Section 1.2 shall not apply to services specifically set forth in the Scope of Services or reasonably contemplated therein. Contractor hereby acknowledges that it accepts the risk that the services to be provided pursuant to the Scope of Services may be more costly or time consuming than Contractor anticipates and that Contractor shall not be entitled to additional compensation therefor.

1.3 Standard of Performance. Contractor agrees that all services shall be performed in a competent, professional, and satisfactory manner in accordance with the standards prevalent in the industry, and that all goods, materials, equipment or personal property included within the services herein shall be of good quality, fit for the purpose intended.

1.4 Performance to Satisfaction of OCWD. Contractor agrees to perform all work to the satisfaction of OCWD within the time specified. If OCWD reasonably determines that the work is not satisfactory, OCWD shall have the right to take appropriate action, including but not limited to: (i) meeting with Contractor to review the quality of the work and resolve matters of concern; (ii) requiring Contractor to repeat unsatisfactory work at no additional charge until it is satisfactory; (iii) suspending the delivery of work to Contractor for an indefinite time; (iv) withholding payment; and (v) terminating this Agreement as hereinafter set forth.

1.5 Instructions from OCWD. In the performance of this Agreement, Contractor shall report to and receive instructions from OCWD's representative identified in Part I, or his or her designee. Tasks or services other than those specifically described in the Scope of Services shall not be performed without the prior written approval of the OCWD.

1.6 Familiarity with Work. By executing this Agreement, Contractor warrants that Contractor (i) has thoroughly investigated and considered the scope of services to be performed, (ii) has carefully considered how the services should be performed, and

(iii) fully understands the facilities, difficulties, and restrictions attending performance of the services under the Agreement. If the services involve work upon any site, Contractor warrants that Contractor has or will investigate the site and is or will be fully acquainted with the conditions there existing, prior to commencement of services hereunder. Should the Contractor discover any conditions, including any latent or unknown conditions, which will materially affect the performance of the services hereunder, Contractor shall immediately inform the OCWD of such fact and shall not proceed except at Contractor's risk until written instructions are received from the OCWD's Representative.

1.7 Prohibition Against Subcontracting or Assignment. Contractor shall not contract with any other entity to perform in whole or in part the services required hereunder without the express written approval of OCWD. In addition, neither the Agreement nor any interest herein may be transferred, assigned, conveyed, hypothecated, or encumbered voluntarily or by operation of law, whether for the benefit of creditors or otherwise, without the prior express written approval of OCWD. In the event of any unapproved transfer, including any bankruptcy proceeding, OCWD may, in its sole and absolute discretion, void the Agreement. No approved transfer shall release any surety of Contractor of any liability hereunder without the express consent of OCWD.

1.8 Compensation. Contractor shall be compensated in accordance with the terms of Part V hereto ("Budget"). Included in the Budget are all ordinary and overhead expenses incurred by Contractor and its agents and employees, including meetings with OCWD representatives, and incidental costs incurred in performing under this Agreement. Contractor shall be compensated for actual costs incurred by subcontractors or other services, and no mark-up will be paid to contractor by OCWD. Unless otherwise specified in Part V, OCWD shall compensate Contractor on a time-and-materials basis at the rates listed in Part V. Contractor shall submit an invoice referencing this Agreement, the Work Order number, date and description of services performed, and the amount. OCWD shall pay the Contractor within 30 days of receipt of the invoice.

SECTION TWO: INSURANCE AND INDEMNIFICATION

2.0 Insurance – See attached Exhibit A to this Agreement.

2.1 Indemnification.

The parties mutually acknowledge that OCWD has retained Contractor to perform the services set forth in this Agreement based upon the special skills, expertise and experience of Contractor. Accordingly, in performing the services under this Agreement, Contractor shall use the skill and care that a highly specialized professional, with expertise in the field, would use under similar circumstances. Further, the parties mutually agree that, to the extent that Contractor retains subcontractors or subcontractors to perform any portion of any of the tasks or services under this Agreement, Contractor has a duty to OCWD to ensure that the tasks and services performed by such subcontractors or subcontractors meet the same professional level, skill and expertise expected of Contractor.

2.2.1 Except as set forth in subdivision 2.2.2 or 2.2.3, Contractor shall indemnify, defend (with legal counsel acceptable to OCWD) and hold harmless OCWD and the OCWD Personnel from and against any and all actions, suits, claims, demands, judgments, attorneys fees, costs, damages to persons or property, losses, penalties, obligations, expenses or liabilities (“Claims”) that may be asserted or claimed by any person or entity arising out of Contractor’s performance of any tasks or services for or on behalf of OCWD, whether or not there is concurrent negligence on the part of OCWD and/or any OCWD Personnel, but excluding any Claims arising from the active negligence or willful misconduct of OCWD or any OCWD Personnel where the active negligence or willful misconduct is determined to be the actual and proximate cause of the alleged injury.

2.2.2 The provisions of this subdivision 2.2.2 apply only in the event that Contractor is a “design professional” within the meaning of California Civil Code section 2782.8(c). If Contractor is a “design professional” within the meaning of Section 2782.8(c), then, notwithstanding subdivision 2.2.1 above, to the fullest extent permitted by law (including, without limitation, Civil Code sections 2782 and 2782.6), Contractor shall defend (with legal counsel reasonably acceptable to OCWD), indemnify and hold harmless OCWD and OCWD Personnel from and against any Claim that arises out of, pertains to, or relates to, directly or indirectly, in whole or in part, the negligence, recklessness, or willful misconduct of Contractor, any subcontractor, subcontractor or any other person directly or indirectly employed by them, or any person that any of them control, arising out of Contractor’s performance of any task or service for or on behalf of OCWD under this Agreement. Such obligations to defend, hold harmless and indemnify OCWD or any OCWD Personnel shall not apply to the extent that such Claims are caused in part by the sole active negligence or willful misconduct of OCWD or such OCWD Personnel. To the extent Contractor has a duty to indemnify OCWD or any OCWD Personnel under this subdivision 2.2.2, Contractor shall be responsible for all incidental and consequential damages resulting directly or indirectly, in whole or in part, from Contractor’s negligence, recklessness or willful misconduct.

2.2.3 The provisions of this subdivision 2.2.3 apply only in the event that this Agreement is a “construction contract” within the meaning of Civil Code Section 2782(b) and 2783. If this Agreement is a “construction contract” within the meaning of those statutes, then notwithstanding subdivision 2.2.1 above, to the fullest extent permitted by law, Contractor shall indemnify, defend (with legal counsel acceptable to OCWD) and hold harmless OCWD and the OCWD Personnel from and against any and all Claims that may be asserted or claimed by any person or entity arising out of Contractor’s performance of any tasks or services for or on behalf of OCWD, whether or not there is concurrent passive negligence on the part of OCWD and/or any OCWD Personnel, but excluding any Claims arising from the active negligence or willful misconduct of OCWD or any OCWD Personnel.

SECTION THREE: LEGAL RELATIONS AND RESPONSIBILITIES

3.1 Compliance with Laws. Contractor shall keep itself fully informed of all existing and future state and federal laws and all county, municipal and OCWD ordinances and regulations which in any manner affect those employed by it or in any

way affect the performance of services pursuant to this Agreement. Contractor shall at all times observe and comply with all such laws, ordinances, and regulations and shall be responsible for the compliance of all work and services performed by or on behalf of Contractor. When applicable, Contractor shall not pay less than the prevailing wage, which rate is determined by the Director of Industrial Relations of the State of California.

3.2 Licenses, Permits, Fees and Assessments. Contractor shall obtain at its sole cost and expense all licenses, permits, and approvals that may be required by law for the performance of the services required by this Agreement. Contractor shall have the sole obligation to pay any fees, assessments, and taxes, plus applicable penalties and interest, which may be imposed by law and arise from or are necessary for Contractor's performance of the services required by this Agreement, and shall indemnify, defend, and hold harmless OCWD against any such fees, assessments, taxes, penalties, or interest levied, assessed, or imposed against OCWD thereunder.

3.3 Covenant Against Discrimination. Contractor covenants for itself, its heirs, executors, assigns, and all persons claiming under or through it, that there shall be no discrimination against any person on account of race, color, creed, religion, sex, marital status, national origin, or ancestry, in the performance of this Agreement. Contractor further covenants and agrees to comply with the terms of the Americans with Disabilities Act of 1990 (42 U.S.C. §12101 et seq.) as the same may be amended from time to time.

3.4 Independent Contractor. Contractor shall perform all services required herein as an independent Contractor of OCWD and shall remain at all times as to OCWD a wholly independent Contractor. OCWD shall not in any way or for any purpose become or be deemed to be a partner of Contractor in its business or otherwise, or a joint venturer, or a member of any joint enterprise with Contractor. Contractor shall not at any time or in any manner represent that it or any of its agents or employees are agents or employees of OCWD. Neither Contractor nor any of Contractor's employees shall, at any time, or in any way, be entitled to any sick leave, vacation, retirement, or other fringe benefits from the OCWD; and neither Contractor nor any of its employees shall be paid by OCWD time and one-half for working in excess of forty (40) hours in any one week. OCWD is under no obligation to withhold State and Federal tax deductions from Contractor's compensation. Neither Contractor nor any of Contractor's employees shall be included in the competitive service, have any property right to any position, or any of the rights an employee may have in the event of termination of this Agreement.

3.5 Use of Patented Materials. Contractor shall assume all costs arising from the use of patented or copyrighted materials, including but not limited to equipment, devices, processes, and software programs, used or incorporated in the services or work performed by Contractor under this Agreement. Contractor shall indemnify, defend, and save the OCWD harmless from any and all suits, actions or proceedings of every nature for or on account of the use of any patented or copyrighted materials.

3.6 Proprietary Information. All proprietary information developed specifically for OCWD by Contractor in connection with, or resulting from, this Agreement, including but not limited to inventions, discoveries, improvements, copyrights, patents, maps,

reports, textual material, or software programs, but not including Contractor's underlying materials, software, or know-how, shall be the sole and exclusive property of OCWD, and are confidential and shall not be made available to any person or entity without the prior written approval of OCWD. Contractor agrees that the compensation to be paid pursuant to this Agreement includes adequate and sufficient compensation for any proprietary information developed in connection with or resulting from the performance of Contractor's services under this Agreement. Contractor further understands and agrees that full disclosure of all proprietary information developed in connection with, or resulting from, the performance of services by Contractor under this Agreement shall be made to OCWD, and that Contractor shall do all things necessary and proper to perfect and maintain ownership of such proprietary information by OCWD.

3.7 Ownership of Data, Reports and Documents. The Contractor shall deliver to OCWD's representative identified in Part I, at the end of the project, notes and surveys made, all reports of tests made, studies, reports, plans, a copy of electronic and digital files, and other materials and documents which shall be the property of OCWD. The Contractor is not responsible to third parties of OCWD's use of data, reports and documents on other projects. OCWD may use or reuse the materials prepared by Contractor in any manner desired without additional compensation to Contractor. Any work performed by Contractor under this Agreement shall be the property of OCWD.

3.8 Retention of Funds. Contractor hereby authorizes OCWD to deduct from any amount payable to Contractor (whether arising out of this Agreement or otherwise) any amounts the payment of which may be in dispute hereunder or which are necessary to compensate OCWD for any losses, costs, liabilities, or damages suffered by OCWD, and all amounts for which OCWD may be liable to third parties, by reason of Contractor's negligent acts, errors, or omissions, or willful misconduct, in performing or failing to perform Contractor's obligations under this Agreement. OCWD in its sole and absolute discretion, may withhold from any payment due Contractor, without liability for interest, an amount sufficient to cover such claim or any resulting lien. The failure of OCWD to exercise such right to deduct or withhold shall not act as a waiver of Contractor's obligation to pay OCWD any sums Contractor owes OCWD.

3.9 Termination By OCWD. OCWD reserves the right to terminate this Agreement at any time, with or without cause, upon fourteen (14) days prior written notice to Contractor. Upon receipt of any notice of termination from OCWD, Contractor shall immediately cease all services hereunder except such as may be specifically approved in writing by OCWD. Contractor shall be entitled to compensation for all services rendered prior to receipt of OCWD's notice of termination and for any services authorized in writing by OCWD thereafter. If termination is due to the failure of Contractor to fulfill its obligations under this Agreement, OCWD may take over the work and prosecute the same to completion by contract or otherwise, and Contractor shall be liable for the costs OCWD incurs in completion of the services required hereunder, including, but not limited to, costs incurred by OCWD in retaining a replacement Contractor, and similar expenses and costs, and including increased staff time costs incurred by OCWD.

3.10 Right to Stop Work; Termination By Contractor. Contractor shall have the right to stop work only if OCWD fails to timely make a payment required under the terms of the Budget. Contractor may terminate this Agreement only for cause, upon thirty (30) days' prior written notice to OCWD. Contractor shall immediately cease all services hereunder as of the date Contractor's notice of termination is sent to OCWD, except such services as may be specifically approved in writing by OCWD. Contractor shall be entitled to compensation for all services rendered prior to the date notice of termination is sent to OCWD and for any services authorized in writing by OCWD thereafter. If Contractor terminates this Agreement because of an error, omission, or a fault of Contractor, or Contractor's willful misconduct, the terms of Section 3.9 relating to OCWD's right to take over and finish the work and Contractor's liability therefor shall apply.

3.11 Waiver. No delay or omission in the exercise of any right or remedy by a nondefaulting party on any default shall impair such right or remedy or be construed as a waiver. A party's consent to or approval of any act by the other party requiring the party's consent or approval shall not be deemed to waive or render unnecessary the other party's consent to or approval of any subsequent act. Any waiver by either party of any default must be in writing.

3.12 Legal Actions. Legal actions concerning any dispute, claim, or matter arising out of or in relation to this Agreement shall be instituted and maintained in the Superior Courts of the State of California in the County of Orange, or in any other appropriate court with jurisdiction in such County, and Contractor agrees to submit to the personal jurisdiction of such court.

3.13 Rights and Remedies are Cumulative. The rights and remedies of the parties are cumulative and the exercise by either party of one or more of such rights or remedies shall not preclude the exercise by it, at the same or different times, of any other rights or remedies for the same default or any other default by the other party.

3.14 Attorneys' Fees. In any action between the parties hereto seeking enforcement of any of the terms or provisions of this Agreement or in connection with the performance of the work hereunder, the party prevailing in the final judgment in such action or proceeding, in addition to any other relief which may be granted, shall be entitled to have and recover from the other party its reasonable costs and expenses, including but not limited to reasonable attorney's fees, expert witness fees and courts costs. If either party to this Agreement is required to initiate or defend litigation with a third party because of the violation of any term or provision of this Agreement by the other party, then the party so litigating shall be entitled to its reasonable attorney's fees and costs from the other party to this Agreement.

3.15 Force Majeure. The time period specified in this Agreement for performance of services shall be extended because of any delays due to unforeseeable causes beyond the control and without the fault or negligence of OCWD or Contractor, including but not restricted to acts of God or of the public enemy, unusually severe weather, fires, earthquakes, floods, epidemics, quarantine restrictions, riots, strikes, freight embargoes, wars, litigation and/or acts of any governmental agency, including

OCWD, if the delaying party shall within ten (10) days of the commencement of such delay notify the other party in writing of the causes of the delay. If Contractor is the delaying party, OCWD shall ascertain the facts and the extent of delay, and extend the time for performing the services for the period of the enforced delay when and if in the judgment of OCWD such delay is justified. OCWD's determination shall be final and conclusive upon the parties to this Agreement. In no event shall Contractor be entitled to recover damages against OCWD for any delay in the performance of this Agreement, however caused. Contractor's sole remedy shall be extension of this Agreement pursuant to this Section 3.15.

3.16 Non-liability of OCWD Officers and Employees. No officer, official, employee, agent, representative or volunteer of OCWD shall be personally liable to Contractor, or any successor in interest, in the event of any default or breach by OCWD, or for any amount which may become due to Contractor or its successor, or for breach of any obligation of the terms of this Agreement.

3.17 Conflict of Interest. No officer, official, employee, agent, representative or volunteer of OCWD shall have any financial interest, direct or indirect, in this Agreement, or participate in any decision relating to this Agreement which affects his or her financial interest or the financial interest of any corporation, partnership, or association in which he or she is interested, in violation of any Federal, State, or OCWD statute, ordinance, or regulation. The Contractor shall not employ any such person while this Agreement is in effect.

3.18 Compliance with California Unemployment Insurance Code Section 1088.8. If Contractor is a sole proprietor, then prior to signing the Agreement, Contractor shall provide to the OCWD a completed and signed Form W-9, Request for Taxpayer Identification Number and Certification. Contractor understands that pursuant to California Unemployment Insurance Code Section 1088.8, the OCWD will report the information from Form W-9 to the State of California Unemployment Development Department, and that the information may be used for the purposes of establishing, modifying, or enforcing child support obligations, including collections, or reported to the Franchise Tax Board for tax enforcement purposes.

SECTION FOUR: MISCELLANEOUS PROVISIONS

4.1 Records and Reports. Upon request by OCWD, Contractor shall prepare and submit to OCWD any reports concerning Contractor's performance of the services rendered under this Agreement. OCWD shall have access, upon reasonable notice, to the books and records of Contractor related to Contractor's performance of this Agreement. All drawings, documents, and other materials prepared by Contractor in the performance of this Agreement (i) shall be the property of OCWD and shall be delivered at no cost to OCWD upon request of OCWD or upon the termination of this Agreement, and (ii) are confidential and shall not be made available to any individual or entity without prior written approval of OCWD. Contractor shall keep and maintain all records and reports related to this Agreement for a period of three (3) years following termination of this Agreement, and OCWD shall have access to such records upon 48 hours notice.

4.2 Notices. Unless otherwise provided herein, all notices required to be delivered under this Agreement or under applicable law shall be personally delivered, or delivered by United States mail, prepaid, certified, return receipt requested, or by reputable document delivery service that provides a receipt showing date and time of delivery. Notices personally delivered or delivered by a document delivery service shall be effective upon receipt. Notices delivered by mail shall be effective at 5:00 p.m. on the second calendar day following dispatch. Notices to the OCWD shall be delivered to the following address, to the attention of the OCWD Representative set forth in Paragraph D.1 of the Fundamental Terms of this Agreement:

To OCWD Orange County Water District
Representative: P. O. Box 8300
 Fountain Valley, CA 92728-8300

Invoices only shall be properly identified with the corresponding Agreement No. and sent to one of the following:

apinvoices@ocwd.com

OR to the address shown below:

Orange County Water District
Attention: Accounts Payable
P. O. Box 20845
Fountain Valley, CA 92728-0845

Notices to Contractor shall be delivered to the address set forth below Contractor's signature on Part I of this Agreement to the attention of Contractor's Representative set forth in Paragraph D.2 of the Fundamental Terms of this Agreement. Changes in the address to be used for receipt of notices shall be effected in accordance with this Section 4.2.

4.3 Construction and Amendment. The terms of this Agreement shall be construed in accordance with the meaning of the language used and shall not be construed for or against either party by reason of the authorship of this Agreement or any other rule of construction which might otherwise apply. The headings of sections and paragraphs of this Agreement are for convenience or reference only and shall not be construed to limit or extend the meaning of the terms, covenants and conditions of this Agreement. This Agreement may only be amended by the mutual consent of the parties by an instrument in writing.

4.4 Severability. Each provision of this Agreement shall be severable from the whole. If any provision of this Agreement shall be found contrary to law, the remainder of this Agreement shall continue in full force.

4.5 Authority. The person(s) executing this Agreement on behalf of the parties hereto warrant that (i) such party is duly organized and existing, (ii) they are duly authorized to execute and deliver this Agreement on behalf of said party, (iii) by so

executing this Agreement, such party is formally bound to the provisions of this Agreement, and (iv) the entering into this Agreement does not violate any provision of any other Agreement to which said party is bound.

4.6 Special Provisions. Any additional or supplementary provisions or modifications or alterations of these General Provisions shall be set forth in Part III of this Agreement (“Special Provisions”).

4.7 Precedence. In the event of any discrepancy between Part I (“Fundamental Terms”), Part II (“General Provisions”), Part III (“Special Provisions”), Part IV (“Scope of Services”), and/or Part V (“Budget”), Part III shall take precedence and prevail over Parts I, II, IV and V; Part II shall take precedence and prevail over Parts I, IV and V; Part IV shall take precedence and prevail over Parts I and V; and Part V shall take precedence over Part I.

4.8 OCWD Contract Management Authority. The OCWD General Manager (or his or her duly authorized representative) shall have the authority to make approvals, issue interpretations, execute documents to implement or clarify this Agreement, waive provisions, and/or enter into certain amendments of this Agreement on behalf of OCWD so long as such actions do not result in any of the following: (a) an increase in the Budget set forth in Part V hereto, (b) a decrease in the scope of services without a corresponding reduction in the Budget, or (c) an increase in the risk of liability to OCWD. Such approvals, interpretations, waivers and/or amendments may include extensions of time to perform.

PART III
SPECIAL PROVISIONS

- A. The Contractor shall comply with the Insurance Requirements of Exhibit A, added in its entirety.

DRAFT

PART IV
SCOPE OF SERVICES

A. Services shall be performed in accordance with Exhibit B, *** dated *** and .

DRAFT

PART V
BUDGET

A. OCWD shall compensate Contractor in accordance with Exhibit C, *** dated *** for a not-to-exceed fee of \$***.00.

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EXHIBIT A

DRAFT

INSURANCE REQUIREMENTS

FOR

The Contractor shall not commence work under this Contract until it has obtained the insurance required hereunder in a company or companies having an A.M. Best rating of A:VII and acceptable to the OCWD nor shall the Contractor allow any subcontractor to commence work on its subcontract until all insurance required herein of the Contractor has been obtained by such subcontractor.

The Contractor shall at the time of the execution of the Agreement present certificate(s) of insurance evidencing the coverage required by this agreement. Such evidence shall include a separate additional insured endorsement and other provisions required herein. At least thirty (30) calendar days prior to the expiration of any such policy, a signed complete certificate of insurance, with all endorsements required herein, showing that such insurance coverage has been renewed or extended will be filed with the OCWD.

At the time of contract document preparation, efforts were made to include all known insurance requirements which would take place during the contract. It is possible additional insurance requirements may be made by another agency or government entity to provide additional insurance not included here. At the direction of the agency/entity, the Contractor shall comply and satisfy the additional insurance requirements.

The Contractor shall procure and maintain for the duration of the contract, and for five (5) years thereafter, insurance against claims for injuries or death to persons or damages to property which may arise from or in connection with the performance of the work hereunder by the Contractor, his agents, representatives, employees, or subcontractors. Coverage shall be at least as broad as the following:

1. General Liability – Commercial General Liability (CGL) – Insurance Services Office (ISO) Commercial General Liability Coverage (Occurrence Form CG 00 01) including products and completed operations, property damage, bodily injury, personal and advertising injury with limit of at least two million dollars (\$2,000,000) per occurrence or the full per occurrence limits of the policies available, whichever is greater. If a general aggregate limit applies, either the general aggregate limit shall apply separately to this project/location (coverage as broad as the ISO CG 25 03, or ISO CG 25 04 endorsement provided to the OCWD or the general aggregate limit shall be twice the required occurrence limit.
2. Automobile Liability – Insurance Services Office (ISO) Business Auto Coverage (Form CA 00 01) covering Symbol 1 (Any Auto) with limit of one million dollars (\$1,000,000) for bodily injury and property damage each accident.
3. Workers' Compensation Insurance – The Contractor shall provide Workers' Compensation coverage as required by the State of California, with Statutory Limits, and Employer's Liability Insurance with limit of no less than \$1,000,000 per accident for bodily injury or disease.
Waiver of Subrogation (also known as Transfer of Rights of Recovery Against

Others to Us) – The Contractor hereby agrees to waive rights of subrogation to obtain endorsement necessary to affect this Waiver of Subrogation in favor of the OCWD, its directors, officers, employees, and authorized volunteers, for losses paid under the terms of this coverage which arise from work performed by the Named Insured for the OCWD; this provision applies regardless of whether or not the OCWD has received a Waiver of Subrogation from the insurer.

4. Builder's Risk is not required.
5. Contractor's Pollution Liability is not required.
6. Professional Liability Insurance appropriate to the Consultant profession, with limits no less than \$1,000,000 per occurrence or claim, and \$2,000,000 policy aggregate.

Other Required Provisions – The Commercial General Liability policy and Contractor's Pollution (if necessary) are to contain, or be endorsed to contain, the following provisions:

1. Additional Insured Status – The OCWD, its directors, officers, employees, and authorized volunteers are to be given insured status (at least as broad as ISO Form CG 20 10 11 85 or if not available, through the addition of **both** CG 20 10 10 01 and CG 20 37 10 01) with respect to liability arising out of work or operations performed by or on behalf of the Contractor including materials, parts, or equipment furnished in connection with such work or operations. General Liability coverage can be provided in the form of an endorsement to the Contractor's insurance.
2. Primary Coverage – For any claims related to this project, the Contractor's insurance coverage shall be primary at least as broad as ISO CG 20 01 04 13 as respects to the OCWD, its directors, officers, employees, and authorized volunteers. Any insurance or self-insurance maintained by the OCWD, its directors, officers, employees, and authorized volunteers shall be excess of the Contractor's insurance and shall not contribute with it.

Notice of Cancellation – Each insurance policy required above shall provide that coverage shall not be canceled, except with notice to the OCWD.

Acceptability of Insurers - The Contractor agrees that it will comply with such provisions before commencing work. All of the insurance shall be provided on policy forms and through companies satisfactory to the OCWD. The OCWD reserves the right to obtain complete, certified copies of all required insurance policies, including the policy declarations page with endorsement number. Failure to continually satisfy the insurance requirements is a material breach of contract.

Deductibles and Self-Insured Retentions – Insurance deductibles or self-insured retentions must be declared by the Contractor and approved by the OCWD. At the election of the OCWD, the Contractor shall either cause the insurer to reduce or eliminate such self-insured retentions as respects the OCWD, its directors, officers, employees, and authorized volunteers or the Contractor shall provide a financial guarantee

satisfactory to the OCWD guaranteeing payment of losses and related investigations, claim administration, and defense expenses. The policy language shall provide, or be endorsed to provide, that the self-insured retention may be satisfied by either the named insured or the OCWD.

Verification of Coverage – Evidence of Insurance – The Contractor shall furnish the OCWD with copies of certificates and amendatory endorsements effecting coverage required by this Contract. All certificates and endorsements are to be received and approved by the OCWD before work commences. However, failure to obtain the required documents prior to the working beginning shall not waive the Contractor's obligation to provide them. The OCWD reserves the right to require complete, certified copies of all required insurance policies, including policy Declaration pages and Endorsement pages, required by these specifications, at any time. Failure to continually satisfy the insurance requirements is a material breach of contract.

Continuation of Coverage – The Contractor shall, upon demand of the OCWD deliver evidence of coverage showing continuation of coverage for at least five years after completion of the project. Contractor further waives all rights of subrogation under this agreement. When any of the required coverages expire during the term of this agreement, the Contractor shall deliver the renewal certificate(s) including the General Liability Additional Insured endorsement and evidence of Waiver of Rights of Subrogation against the OCWD (if Builder's Risk Insurance is applicable) to OCWD at least ten days prior to the expiration date.

Subcontractors – In the event that the Contractor employs other contractors (subcontractors) as part of the work covered by this agreement, it shall be the Contractor's responsibility to require and confirm that each subcontractor meets the minimum insurance requirements specified above (via as broad as ISO CG 20 38 04 13). The Contractor shall, upon demand of the District, deliver to the OCWD copies of such policy or policies of insurance and the receipts for payment of premiums thereon.

Note 1: Any combination of a minimum \$1,000,000 per occurrence General Liability and Excess Liability to meet the \$2,000,000 total may be accepted

Note 2: The General Liability and/or Automobile Liability coverage shall include mobile equipment.

Note 3: All insurance terms provided by the Contractor for this contract are subject to approval and acceptance by the OCWD.

Note 4: The OCWD, its directors, officers, employees, authorized volunteers, shall be named, by separate endorsement, as additional insured on the policy.

Note 5: Contract Name and/or Contract Number shall be indicated on insurance certificate.



EXHIBIT D

CONTRACTOR SAFETY



OCWD RFP-24-012 - FPWP A01 INSPECTION AND REFURBISHMENT SERVICES

EXHIBIT D-1

CONTRACTOR ENVIRONMENTAL HEALTH & SAFETY HANDBOOK



SINCE 1933



Contractor Environmental Health & Safety (EHS) Handbook

Orange County Water District
18700 Ward Street
Fountain Valley, CA 92708

ATTENTION: Orange County Water District (OCWD) Contractors

This handbook is designed to help you understand and comply with OCWD's Contractor Safety requirements.

This handbook is not intended to replace Federal, State or Local regulations regarding Contractor performance. Contractor shall keep itself fully informed of all existing and future state and federal laws and all county and city ordinances and regulations which in any manner affect the activities of Contractor and of all such orders and decrees of bodies or tribunals having any jurisdiction or authority over the same. Contractor shall at all times observe and comply with all such existing laws, ordinances, regulations, orders and decrees, and shall protect and indemnify OCWD, its officers, directors, employees and agents against any claim or liability arising from or based on the violation of any such law, ordinance, regulation, order or decree.

Your full support and cooperation are required to comply with all the regulations including those contained in this handbook. References to **“contractor”** shall also include subcontractors, vendors, consultants and the like. OCWD reserves the right to change or waive the policies and provisions herein contained, at any time at its discretion.

Questions regarding OCWD Contractor Safety Program should be directed to your project manager.

Thank You For Your Cooperation.

OCWD Management

This handbook is not intended to replace Federal, State or Local regulations regarding Contractor performance

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I. CONTRACTOR SAFETY REVIEW

Prior to initiating any contract work at any OCWD facility, contractors must:

- Agree to follow the requirements set forth herein and all additional applicable Federal, State and local safety and environmental rules, regulations, ordinances and the like.
- Complete a Safety Review Process (to include pre-work orientation). OCWD Project Manager and Risk & Safety will evaluate the information and forms for approval to perform work at OCWD.

II. SECURITY

Trespassing: Contractors, sub-contractors and their employees must confine themselves to the immediate site of their work, except when traveling between site and entrance or other places where they may have proper business.

Parking / Motor Vehicles / Deliveries: Contractor employees are permitted to park only in designated areas. The on-site speed limit is 15 miles per hour. All traffic signs must be obeyed. Pedestrians have the right-of-way. Contractors must arrange with the OCWD representative for the on-site delivery of materials, equipment and tools required for work performance. Contractors must obtain permission from the OCWD representative prior to using loading docks and platforms.

Alcoholic Beverages / Illegal Drugs: Alcoholic beverages and illegal or controlled drug substances are strictly prohibited on all OCWD premises.

Firearms / Explosives: Firearms and ammunition are not permitted on OCWD property. Explosive power tools are permitted with prior written approval from OCWD Project Manager. Only employees who have been trained in the operation of the particular tool in use shall be allowed to operate a powder-actuated tool.

Emergency Alarms and Evacuation Routes: Contractors need to review the site evacuation map with the project manager and communicate the information to their staff.

Contractors Equipment: Contractors will supply all equipment, which will be maintained in good operating condition, for work required by the project. A contractor is not permitted to use forklift equipment, ladders, tools, etc. owned by OCWD.

III. EMERGENCY PROCEDURE



Emergencies that require a 911 call must be followed by a call to our internal emergency line for notification and building/area access for emergency personnel. **OCWD's internal emergency line is extension 3300 from an OCWD internal phone or 714-378-3300 from a cell phone.**

When the fire alarm sounds leave the building by the nearest safe exit and go to the designated assembly area to report your presence so you can be accounted for. Do not re-enter the building until the “All Clear” has been given by emergency personnel.

IV. GENERAL DRESS AND CONDUCT

Contractor personnel will wear suitable clothing consistent with facility requirements. Shorts, tank tops, sandals and open toed shoes are not permitted.

Contractor personnel will behave in a mature and professional manner. Horseplay, foul language, fighting, or harassment of any kind will not be tolerated.

V. FOOD, BEVERAGES AND DRINKING WATER

Not all water systems at OCWD facilities are potable or suitable for drinking. Contractor personnel shall not drink from any non-potable sources. Water obtained from drinking fountains, bottled water sources and fresh water dispensing units are acceptable.

Contractor shall provide its own water to employees as required by the Heat Illness Prevention Program.

Eating is permitted in vending areas, lunchrooms and designated areas. Food and drinks are not allowed in laboratory areas at any time.

VI. SMOKING



Smoking (including cigarettes, pipes, cigars, electronic cigarettes, vaporizers, and vape pens) is not permitted in any buildings, facilities, vehicles, or any other indoor work area, under any circumstances. Smoking shall also be prohibited within 20 feet of entryways and windows of buildings and facilities leased or owned by the District as well as within 50 feet of all confined spaces (i.e. sewers, manholes, sewer lift stations, vaults, reservoirs, etc.) *Cal/OSHA, §5148. Prohibition of Smoking in the Workplace.*

VII. HOUSEKEEPING

Contract personnel must maintain proper housekeeping practices while onsite. At the end of each day, contractors must remove all rubbish, equipment, tools and machinery and leave the area clean. OCWD will provide a designated location to set up trailers, craft equipment and materials. These areas must be kept clean and orderly. All materials and equipment, including tools and tool boxes, are to be stored within the areas designated by OCWD representatives.

Refuse burning, and/or open fires are prohibited.

Do not mix contractor generated waste with OCWD facility waste.

Contractors are required to cover and/or use plastic barriers, e.g., Visqueen, as appropriate, to protect sensitive computer, laboratory, and other equipment, furniture, flooring, and office areas where dust, dirt, debris, etc. can be generated from work activities involving ceiling tiles, drywall, flooring, saw cutting, jack-hammering and the like.

When generating dust indoors, (e.g. jackhammering, abrasive blasting, etc.) contractors must provide air filtration system or similar ventilation system to pull dust away from workers and occupied areas (similar to asbestos negative pressure ventilation).



VIII. UTILITIES AND SERVICES

Contractors must never dispose of paints, acids, caustics, cleaning agents, grease, or any other hazardous material down sinks, floor drains or storm drains.

All spills must be reported to the Risk & Safety Department immediately.

Contractors are not permitted to make connections to site electric, water, wastewater, steam, compressed air or other plant utilities without approval from the OCWD Project Manager.

No water may be used from any fire hydrants, fire standpipes or risers, or hose stations for any purpose other than to fight a fire.

New or modified electrical / plumbing and utility circuits must be identified and tagged. Prints are to be updated as any changes occur.

Electrical power, steam, water (hot, cold, chilled, etc.), natural gas, vacuum, etc. shall not be shut off to any equipment, machinery or other services without approval from the Project Manager.

IX. RISK & SAFETY INSTRUCTIONS

OCWD has developed safety procedures to protect our employees, visitors, contractors, community, facilities and the environment. Upon request, Contractors can be provided with in-house safety procedures applicable to their work. For further clarification on any of these rules or if requirements are not fully understood, contractors must contact the OCWD Project Manager or Risk & Safety Department.

OCWD site will be considered multi-employer site per Cal OSHA §336.10 and all contractors and subcontractors will be held accountable for safety of their own employees as well as OCWD employees. No shortcuts will be tolerated and we expect full cooperation from our contractors when it comes to safety compliance.

Safety policies and procedures must be followed at all times without exception. Safety concerns shall be reported directly to the OCWD Project Manager who must consult the Risk & Safety Department to resolve potential hazards or outstanding safety concerns and issues.

All work related injuries, illnesses, accidents and/or incidents must be reported to the OCWD Project Manager and to the Risk & Safety Department immediately.

X. SAFETY EQUIPMENT

Contractor's employees should use eyewash and safety showers in applicable emergency situations.

Obey all OCWD safety signs and hazard warnings including the use of safety

glasses/goggles in designated areas. Signs are posted for everyone's safety.

The use of appropriate signs (i.e., danger, wet floor, etc.) is mandatory where hazards exist to communicate and prevent accidents & injuries.

All overhead work must be roped off. Planking and scaffolds must be secured safely.

All open ditches, trenches, excavations, potholes and the like must be marked by barriers and signs.

Contractors must not remove any safety equipment (fire exit signs, fire extinguishers, safety mirrors, railings, chains, etc.) without prior approval from the Risk & Safety Department.

All ladders must meet the applicable regulatory requirements. Metal ladders are not to be use for electrical work or stored near electrical panels. It is prohibited for anyone to stand on the top two steps of any ladder.

XI. CUTTING, WELDING AND HOT WORK



A hot work permit must be obtained and signed daily from the Maintenance Department (or Control Room supervisor for after-hour/weekend work) for burning, welding, cutting, brazing, soldering and other work involving open flame or an electric arc per OCWD Fire Prevention Plan.

The permitted Hot Work area must be prepared and checked by the contractor prior to any welding and/or burning being performed. Inspection of the area should at a minimum include removing all combustible material from the area.

Proper safety equipment must be worn in the Hot Work process.

Fire watch must be performed by the contractor after the Hot Work and inspected by OCWD Maintenance Department or OCWD Inspector. Hot Work Permits must be returned to the Maintenance Department for fire watch signoff.

Hot Work Permits must be returned to the Maintenance Manager or designee for fire watch signoff and final checkup.

A Class ABC fire extinguisher MUST be nearby when there is Hot Work being performed.

Cal/OSHA, § 4848. Fire Prevention in Welding and Cutting

Cal/OSHA § 6777. Hot Work Permits

Cal/OSHA §1537. Welding, Cutting, and Heating of Coated Metals

Cal/OSHA § 1536. Ventilation Requirements for Welding, Brazing, and Cutting

XII. CONFINED SPACES



Contractor personnel are not permitted to enter any confined space at OCWD until approved by the OCWD Project Manager. Contractors are required to provide a copy of the following prior to entering Confined Spaces:

- Training documentation for those entering confined spaces
- Copy of completed entry permit

The OCWD Project Manager or designee will inform the contractor about known hazards of the confined space.

Contractor is required to inform the OCWD Project Manager of any hazards confronted or created in the confined space.

Confined Space Entry PERMIT and MONITORING must be completed prior to entry.

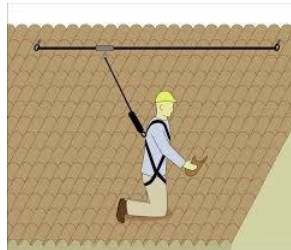
Permit-Required Confined Spaces means a confined space that has one or more of the following characteristics:

- Contains or has a potential to contain a hazardous atmosphere;
- Contains a material that has the potential for engulfing an entrant;
- Has an internal configuration such that an entrant could be trapped or asphyxiated by inwardly converging walls or by a floor which slopes downward and tapers to a smaller cross-section; or contains any other recognized serious safety or health hazard.

Examples of permit required confined space include but not limited to: tanks, manholes, vaults, pipes, and secondary containment pits.

Cal/OSHA §5157. Permit-Required Confined Space.

XIII. ROOF AND ELEVATED SURFACE WORK



No access to the roof is allowed without the OCWD Project Manager or the Maintenance Manager notice. No smoking is allowed on the roof. Communication such as a two way radio or cell phone is required. Contract employees are not allowed to work near unguarded skylights without fall prevention equipment.

- *Article 16. Standard Railings (Cal/OSHA Construction Safety Orders 1620 - 1621)*
- *Article 19. Floor, Roof and Wall Openings (Cal/OSHA Construction Safety Orders 1632 - 1633)*
- *Article 21. Scaffolds - General Requirements (Cal/OSHA Construction Safety Orders 1635.1 1637)*
- *Article 22. Scaffolds - Various Types (Cal/OSHA Construction Safety Orders 1640 - 1655)*
- *Article 24. Fall Protection (Cal/OSHA Construction Safety Orders 1669 - 1672)*
- *Article 2. Standard Specifications (Cal/OSHA General Industry Safety Orders, 3209 – 3239).*

XIV. LOCKOUT / TAGOUT



Contractor personnel must comply with all requirements of the OCWD Lockout / Tagout procedure when working on any system with potential energy from any source (electric, mechanical, hydraulic, steam, etc.).

OCWD designated Operations personnel, will place their lock first and will be the last person to remove their lock during a lockout process involving contractors. All contractors and personnel working on a locked out system must have their own locks. All locks must be applied for all workers and the system not restarted until the last lock is removed. It is forbidden for anyone to remove another person's lock.

CAL/OSHA §3314. The Control of Hazardous Energy for the Cleaning, Repairing, Servicing, Setting-Up, and Adjusting Operations of Prime Movers, Machinery and Equipment, Including Lockout/Tagout.

XV. COMPRESSED GASES



Contractor personnel must comply with all requirements for identifying, storing and safely using cylinders of compressed gases (air, oxygen, helium, acetylene, argon, hydrogen, nitrogen, liquid nitrogen, etc.). Free standing gas cylinders (unsecured) are not allowed on site. All gas cylinders must be used, stored and secured properly (i.e. chained, strapped)

Cal/OSHA §4650. Storage, Handling, and Use of Cylinders and Compressed Gases.

XVI. ASBESTOS



Contractors are prohibited from using any materials, supplies, or other objects that contain or may potentially contain asbestos or asbestos fibers.

Contractors who identify materials that are suspected of containing asbestos must immediately stop work and notify the OCWD Project Manager.

CAL/OSHA §1529. Asbestos.

XVII. FIRE PROTECTION



Self-closing safety cans with flame arrestors must be used with all flammable liquid of 5 gallons or more.

Fire protection and emergency equipment (fire extinguishers, pull alarms, exits, hydrants, etc.), must not be blocked with materials and equipment.

The use of portable gasoline-powered equipment within OCWD buildings and on the roofs of OCWD buildings is prohibited.

Approval from the OCWD Risk & Safety Department is required before temporarily obstructing roadways that could block the movement of emergency equipment, plant vehicles or agency (fire trucks, ambulances, police cars, etc.)

CAL/OSHA §3221. Fire Prevention Plan

XVIII. HAZARD COMMUNICATION



Contractors must provide Safety Data Sheets (SDS) of all chemicals that will be brought onsite to the Risk & Safety Department. Contractors must inform the OCWD Project Manager of any hazardous conditions which might arise in the performance of their job.

Safe chemical handling procedures must be used by contractor personnel to ensure exposure levels remain safe for all OCWD employees.

Personal Protective Equipment (PPE) specified and recommended in the SDS should be worn properly at all times the chemical(s) is in use.

CAL/OSHA §5194. Hazard Communication

XIX. PROTECTIVE CLOTHING AND PERSONAL PROTECTIVE EQUIPMENT (PPE)



Contractor personnel will use PPE required for the job (e.g. eye protection with side shields, goggles, welding helmet, hearing protection, hard hats, and safety shoes, etc.). PPE will be worn in all posted areas or whenever hazards associated with the task being performed warrant further protection. Eye protection must always be worn when using hand or power tools and when working with chemicals.

Contractors are responsible for supplying their workers with the required PPE while performing work at OCWD.

CAL/OSHA §3380. Personal Protective Devices

BASIC SAFETY INSPECTION	Y	N/A
Eye protection worn when working with power tools and when possible contact with flying particles, hazardous substances, projections or injurious light rays and in designated areas (i.e. lab).		
Hard Hats worn in construction areas and where there is a potential for falling objects.		
Proper Attire worn (e.g. long pants and sturdy shoes or safety shoes) in required areas/construction sites.		
Hearing Protection worn in required areas or when noise is at or above 85 dB.		
Emergency Equipment & Exits are not blocked and easily accessible in case of an emergency.		
Aisles and Floors are kept free of obstruction that can cause slip, trip, & falls (e.g. cords, tools, equipment).		
Tools are put away and stored properly after usage.		
Safety Data Sheets provided for hazardous chemicals brought onsite.		
Hazardous Materials are clearly labeled in compliance with Hazard Communications & GHS requirements.		
Safety Signs and Barriers used as required.		
Protection of OCWD Property & Equipment during work (e.g. computers covered properly).		
Proper housekeeping maintained; area cleaned up at end of shift.		
Required Permits available (i.e. Hot Works, Confined Space).		
No live Electrical Work without I&E Manager approval.		
Lockout/Tagout specific procedure available and followed.		
Confined space permit and monitoring completed prior to entry into confined space.		
Asbestos containing materials are not brought onsite.		
Contractor employees are informed on OCWD emergency process & notification. Workers calling 911 must also call OCWD's emergency number: (714) 378-3300 to notify.		
Evacuation is required when the fire alarm is activated. Roll call will be conducted at the assembly area.		
Immediate Notification to OCWD project manager if FM-200 alarm is activated.		
Use of Portable Gasoline-Powered Equipment within and on the roofs of OCWD buildings is strictly Prohibited.		
Gas cylinders used, transported & stored properly (on carts & properly strapped to prevent tipping).		
Self-Closing Safety Cans with flame arrestors used for 5 gallons or more of Flammable liquids.		
Working at Heights (unprotected/unguarded above 48 inches) appropriate fall protection/guarding to protect against falls.		
Ladders inspected & used properly. NO Standing or working on the top cap or the step below the top cap of a stepladder.		
Excavation/Trenching permit for excavation 5 feet or deeper.		
Powered Industrial Vehicle operator's pre-use inspection completed and available upon request.		
Crane operators trained/certified as required.		
Traffic Control work comply with Cal/OSHA and Cal Trans requirements. This includes proper work zone set up and high visibility safety apparel for workers.		
Other:		

NOTE: *These are NOT intended to replace Federal, State, Local laws or Ordinances and Regulations regarding Contractor Environmental Health & Safety (EHS) performance. All work in areas where there is imminent danger to employees will cease until the dangerous condition is removed.*

CONTRACTOR'S ENVIRONMENTAL HEALTH & SAFETY AGREEMENT

I have read the information stated in the OCWD's Contractor Environmental Health & Safety Handbook. I understand that the information provided covers brief highlights of the OCWD's safety programs. It is my responsibility to review the updated programs and communicate the safety information & requirements to my employees.

I understand that the Contractor's Environmental Health & Safety Handbook is not intended to replace Federal, State or Local regulations regarding Contractor performance. Contractor shall keep itself fully informed of all existing and future state and federal laws and all county and city ordinances and regulations which in any manner affect the activities of Contractor and of all such orders and decrees of bodies or tribunals having any jurisdiction or authority over the same. Contractor (including contractor employees and subcontractors) shall at all times observe and comply with all such existing and future laws, ordinances, regulations, orders and decrees, and shall protect and indemnify OCWD, its officers, directors, employees and agents against any claim or liability arising from or based on the violation of any such law, ordinance, regulation, order or decree.

Contractor Company _____

Contractor Name & Title
(Please Print): _____

Contractor Signature: _____

Date: _____

FORWARD A SIGNED COPY OF THE CONTRACTOR'S AGREEMENT PAGE TO RISK & SAFETY DEPARTMENT



OCWD RFP-24-012 - FWP A01 INSPECTION AND REFURBISHMENT SERVICES

EXHIBIT D-2

CONTRACTOR SAFETY PROGRAM

APPENDIX B

INSTRUCTIONS FOR CONTRACTORS

All licensed contractors interested in performing work for Orange County Water District (OCWD) must complete and provide the information requested in the “Contractor Required Information packet;” meet the criteria listed below and participate in a pre-project safety orientation meeting:

The Criteria below is required in order to comply with OCWD’s Contractor Safety Program and Cal/OSHA’s Multi-Employer Worksite Standard*

**California Labor Code Sections 6400, 6401, 6401.7, 6402 through 6404 and Title 8, California Code of Regulations, Sections 336.10 and 336.11*

CONTRACTOR CRITERIA REQUIREMENTS:

- EMR greater than 1.25 for any year in the last three years.
- Received a Cal/OSHA regulatory citation and penalties assessed against your firm for any “serious,” “willful” or “repeat” violation as defined by Cal/OSHA, Title 8, sections §330 and §334, in the past three years?
Yes No

If “yes,” attach a separate signed page describing the citations, including information about the dates of the citations, the nature of the violation, the project on which the citation(s) was or were issued, the amount of penalty paid, if any. If the citation was appealed and a decision has been issued, state the case number and the date of the decision.

NOTE: If you have filed an appeal of a citation, and the Appeals Board has not yet ruled on your appeal, you need not include information about it.

- Failure to provide all requested information.

NOTE: if the contractor is disqualified based on the information above, the awarding body will analyze the issues using the following two factors for potential consideration of the award:

1. Whether the incident was a good faith mistake and, if so, the error was promptly and voluntarily corrected when brought to the attention of the Contractor or Subcontractor, AND
2. Whether the Contractor or Subcontractor has a prior history of good performance, and the incident was openly reported, and the triggering event is not related to a major scope of work, caused by negligence, or resulted in regulatory violations or civil liability against awarding bodies.

Any policy year above 1.25 submit additional documentation to show incidents that resulted in increased EMR subject to review by the awarding party.

APPENDIX B: CONTRACTOR REQUIRED INFORMATION

Part 1: CONTRACTOR INFORMATION SECTION - To Be Completed By Contractor

- Contractor's Name: _____
- Contractor's License (copy of license if applicable): _____
- California Registration Number (if applicable): _____
- Experience Modification Rate (EMR) for each of the past three premium years:
 Current year: _____ Previous year: _____ Year prior to previous year: _____
- Copy of 3 Years of OSHA 300A Annual Summary (If greater than 10 employees)
- How many serious injuries or fatalities has your company experienced in the past three years? _____
- How many Regulatory Violations has your company had in the last 3 years? _____

Part 2: SAFETY PROGRAM SECTION - To Be Completed By Contractor

All Written Safety Programs & Training Documentation must be available to OCWD upon request	YES	NO
Does your company maintain a written Injury Illness Prevention Program (IIPP) in accordance with GISO, Title 8, Section §3203 and §1509 and Labor Code (LC §6401.7)?	<input type="checkbox"/>	<input type="checkbox"/>
Does your company provide toolbox training and maintain documentation for IIPP employee training [§3203 and §1509(b)]?	<input type="checkbox"/>	<input type="checkbox"/>
Does your company maintain and post "Code of Safe Practices" documentation [Title 8, §1509(b)] ?	<input type="checkbox"/>	<input type="checkbox"/>
Does your company maintain disciplinary documentation for unsafe behavior of employees or subcontractors (if applicable) [Title 8, §3203 and §1509] ?	<input type="checkbox"/>	<input type="checkbox"/>
Does your company maintain inspection records and written evidence that safety and health concerns have been reviewed and corrective actions taken [§3203, LC§6401.7(b) and (D)]?	<input type="checkbox"/>	<input type="checkbox"/>
Does your company maintain a documented Hazard Communication Program that complies with GHS Labeling and Safety Data Sheets (SDS) [8 CCR §5194]?	<input type="checkbox"/>	<input type="checkbox"/>
Are procedures in place for communicating critical high-risk job activities, including a written safety plan or Job Safety Analysis (JSA), to ensure they are reviewed with all employees and subcontractors [LC 6401.7(a)(5)]?	<input type="checkbox"/>	<input type="checkbox"/>
Does your company have a written accident investigation program that ensures all accidents and incidents, including those involving subcontractors, are thoroughly investigated and corrective actions are implemented [§3203(a)(5) and (b) and §1509]?	<input type="checkbox"/>	<input type="checkbox"/>
Does your company have a written Emergency Action Plan that is effectively communicated to employees and subcontractors, covering emergencies such as medical incidents, fires, and chemical spills [8 CCR §3220]?	<input type="checkbox"/>	<input type="checkbox"/>
Are the aforementioned written programs, including training documentation and records of safety meetings, properly maintained on file and available upon request [LC §6401.7, §336.10, and 8CCR §1509(e)]?	<input type="checkbox"/>	<input type="checkbox"/>
If yes, where are the documentations maintained? _____		

APPENDIX B: CONTINUED

<p>Part 2 – PROJECT SPECIFIC SAFETY PROGRAM SECTION - To Be Completed By Contractor (Please review each section below, check all that apply to the project, and provide the corresponding documentation details.)</p>
<p><input type="checkbox"/> Our company has a written Confined Space Program that includes pre-entry monitoring, pre-entry permit, and employee training [T8 CCR §5157] Where is the documentation maintained? _____</p>
<p><input type="checkbox"/> Our company has a written Electrical Safety Program that complies with the required regulations that includes employee training [T8 CCR §2700 - §2989 and T8 CCR §2299 - §2599 and NFPA 70E] Where is the documentation maintained? _____</p>
<p><input type="checkbox"/> Our company has a written Fall Prevention Program that includes Personal Fall Arrest Systems, Personal Fall Restraint Systems, Positioning Devices and employee training [T8 CCR §1670] Where is the documentation maintained? _____</p>
<p><input type="checkbox"/> Our company has a written Trenching & Excavation Program that includes employee training [T8 CCR §1541.1] Where is the documentation maintained? _____</p>
<p><input type="checkbox"/> Our company has a written Lockout/Tagout Program that includes employee training [T8 CCR §3314(j)] Where is the documentation maintained? _____</p>
<p><input type="checkbox"/> Our company has a Hot Work Program that includes employee training [T8 CCR §4848] Where is the documentation maintained? _____</p>
<p><input type="checkbox"/> Our company has a Traffic Control Program that includes employee training [T8 CCR, Construction Safety Orders, Article 11, 1597 - 1599] Where is the documentation maintained? _____</p>
<p><input type="checkbox"/> Our company has a documented Heat Illness Prevention Program for Outdoor Worksites, which includes comprehensive employee training. All contractors are expected to protect the workers by implanting measures to prevent heat illness AND to adjust their work practices to mitigate fire risks. During a “Red Flag Warning,” extra precautions must be taken to prevent potential fire hazards [T8 CCR §3395] Where is the documentation maintained? _____</p>
<p>Other applicable programs (please list): _____</p>

Contractors shall ensure that all employees under their supervision, including subcontractors, receive comprehensive training in the safe work practices required to perform their jobs safely. Additionally, contractors are responsible for effectively communicating the Job Safety Plan to all employees and subcontractors, ensuring full understanding and compliance with safety protocols.

COMMENTS: _____

Name of Contractor Representative (please print)

Contractor Representative’s Signature

Date Signed:

A bidder’s failure to respond affirmatively to the questions listed in the “Part 2 - Safety Program Section” of Appendix B including the sections applicable to the work shall be grounds for the District to reject the bid as non-responsive.

APPENDIX B: CONTINUED

CONTRACTOR’S ENVIRONMENTAL HEALTH & SAFETY (EHS) AGREEMENT

I have read the information stated in the OCWD’s *Contractor Environmental Health & Safety (EHS) Handbook*. I understand that the information provided covers brief highlights of the OCWD’s safety programs. It is my responsibility to review the updated programs and communicate the safety information & requirements to my employees.

I understand that the Contractor’s Environmental Health & Safety Handbook is not intended to replace Federal, State or Local regulations regarding Contractor performance. Contractor shall keep itself fully informed of all existing and future state and federal laws and all county and city ordinances and regulations which in any manner affect the activities of Contractor and of all such orders and decrees of bodies or tribunals having any jurisdiction or authority over the same. Contractor (including contractor employees and subcontractors) shall at all times observe and comply with all such existing and future laws, ordinances, regulations, orders, and decrees, and shall protect and indemnify OCWD, its officers, directors, employees and agents against any claim or liability arising from or based on the violation of any such law, ordinance, regulation, order or decree.

Contractor Company _____

Contractor Name & Title
(Please Print): _____

Contractor Signature: _____

Date: _____



OCWD RFP-24-012 - FPWP A01 INSPECTION AND REFURBISHMENT SERVICES

ATTACHMENT NO.1

RFP SUBMITTAL CHECKLIST

ATTACHMENT NO.1

Request for Proposals (RFP) Submittal Checklist

The following submittals shall be completed and submitted with each Proposal package (see table below for the “Required Submittal Checklist.”). This table has been provided as a convenience for proposers to use as a reference only. Ultimately, it is the Proposer’s sole responsibility to ensure that their proposal complies with all requirements of the RFP and all the required submittals are included in the Proposal package before it is formally submitted to OCWD. Proposals may be deemed nonresponsive if they do not respond to all areas specified in the RFP.

Item No.	Required Submittal Checklist	Check (✓)
1	One signed (1) Proposal package including:	
2	Title Page	
3	Cover Letter	
4	Table of Contents	
5	Company Background	
6	Contractor License, DIR Contractor Registration, Prevailing Wage	
7	Project Team and Qualifications	
8	Project Overview and Approach	
9	Additional Services	
10	Experience and Record of Past Performance	
11	Price Proposal	
	Other Information: <ul style="list-style-type: none"> • Contractor Environmental Health and Safety Agreement form, attached at the end of Exhibit D-1 • Contractor Required Information Form, attached in Exhibit D-2 • Safety Manual • Quality Control Plan 	
12	OCWD Standard Insurance Compliance: <ul style="list-style-type: none"> • A statement that the Proposer will meet the Insurance Requirements in Section 6.11 of the RFP. 	
13	OCWD Standard Contract: <ul style="list-style-type: none"> • A statement accepting the requirements stated in Section 6.12 of the RFP. 	
14	Billing <ul style="list-style-type: none"> • A statement accepting the requirements stated in Section 6.13 of the RFP. 	
14	Conflict of Interest	
15	Equal Employment Opportunity	
16	Addenda Acknowledgement Forms (if applicable)	