



Project Proposal P093021JK_x0

Yolo County Sheriff's Office
Monroe Detention Center



Sewage Grinder Installation Project



MISCOwater
California Contractor
License No. 794005

Prepared by:
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1. MISCOwater Collaborative Delivery Solutions



Furnish & Installation

Delivering working, integrated systems utilizing technologies that provide effective water treatment solutions

MISCOwater - is focused on applying the best water and wastewater treatment solutions to our industry's greatest water treatment challenges in partnership with you.

Provide municipalities a cost effective way to implement small to medium sized projects involving installation of new equipment or replacement/rehabilitation of existing equipment.

Complete projects faster than most project procurement mechanisms.

Provide owners with a Project Manager that is a single point-of-contact for successful project implementation.

Contract with manufacturers that use common design and engineering tools to minimize project costs.

Encourage owner participation in the selection of the installer/contractor to foster collaboration and partnership.

Include options for financing, system maintenance, and long-term support.

2. Project Summary

Yolo County Sheriff's Office has been using JWC Environmental equipment to protect their sewer collections and headworks equipment at the Monroe Detention Facility since the the facility was first built. The intent of this project is to further protect and prevent a single point of failure in the sewage collections system upstream of the pump well. The principle reason for this need is an increased ability and tendency of inmates to flush larger debris down toilets which has presented an increasing overflow condition. This limited the current sewage grinders capabilities. This project will add an M3 - MUFFIN MONSTER MANHOLE Model 40002-0018-DI Macho Monster grinder suitable for up to 915gpm and specifically designed for correctional applications. The core of the scope of supply will include a sewage grinder with 18" cutter stack using 7-tooth cam cutters in hardened alloy steel upstream from current sewer wet well. This will precondition the larger material and is designed to overflow around the sides if there is a failure or a blockage and the downstream grinder will provide backup particle reduction to handle the flow.

To limit the sewer bypass time the buried pipeline can be accessed by digging working area up prior to pigging the line. The headworks equipment and sewer building operations will stay operational during the entirety of project. Once flow is diverted around working space the contractor will install a custom-designed, prefabrication, and factory assembled FRP manhole where the grinder will reside, intercepting the main pipeline. The addition of this speciality grinder will continue to provide Yolo County's Monroe Detention Center with years of dependable service.

3. Scope of Work

Project Construction Overview: Furnish and Install Muffin Monster Manhole sewage grinder complete with FRP manhole and 40k series Macho Monster grinder specialized for correctional applications.

Scope of Work

1. Mobilize
2. Verify all equipment onsite matches BOM and wasn't damaged in shipping.
3. Excavate to sewage line - approximately 15' underground.
4. Setup bypass system - within 100' of manhole location.
5. Cut into sewage line and pig lines.
6. Form and pour mounting pad.
7. Install FRP manhole, tie into existing pipeline.
8. Backfill with pea gravel.
9. Install 40k Macho Monster onto guide rails and lower into manhole channel.
10. The JWCE provided panel will be mounted on the north side of the sewer building closest to the new manhole location. This will require stainless steel anchors -up to 8-3/8-inch X 4 with min 3-inch depth to mount the stainless steel Unistrut (1 5/8" depth).
11. Stainless steel Conduit 3/4 inch diameter min up to 1 inch for load side conductors-SO cable from JWCE will be min 30 meters long and contain 6 conductors including ground. (80 feet) up to 2 sweeps, 8 couplers, 1 hub, 1 XP fill and or pull box will be used for load side.
12. Line side conductors are 3 + Ground 10-12 AWG less than 50 feet. 1/2 inch conduit, 2 sweeps, 2 hubs, 1 pull and or fill box.
13. Cut concrete driveway will need to be cut by contractor and removed as well as a small trench dug from north wall to new manhole to accomplish the load side install.
14. After successful load side continuity test replace driveway concrete and backfill electrical trench.

This scope of work excludes the following items:

- Permits, fees, and/or stamped engineering documents.
- Overtime premiums or weekend work.
- No allowances have been included for snow removal and winter work.
- Offloading and/or storage of replacement parts if delivered when crew is not onsite.
- Assumes adequate lay down and access to work site.
- Installation of (non identified) piping, equipment supports and/or electrical.
- Dewatering of any kind.
- Yolo County to make all reasonable precautions to make safe work space.
- Disposal of any mechanical equipment.
- Hazardous material handling or disposal.
- No allowances have been made for Project Labor Agreements (PLA's) or similar requirements.
- Any work not specifically included.

4. Scope of Supply



JWC Muffin Monster Manhole

Lid-type Muffin Monster Manhole Structure

- 4' diameter x 8' deep FRP wetwell, with a fiberglass ladder & hinged lid.
- Formed-in channel 21" wide and 30" deep
- 12" diameter influent and effluent pipe stubs with neoprene boots and stainless steel bands
- 2" fiberglass threaded conduit tap
- 1/2" expanded polystyrene bead board for installation
- Stainless steel cable hook and haul-out chain hook
- Hinged, lockable fiberglass lid able to support up to 1000 pounds.

Grinder

Installed Model 40002-0018 Macho Monster grinder suitable for up to 450 gpm in a preformed channel 21" wide x 30" deep with 4" recess at grinder (refer to JWC Environmental flow curves for additional performance data). Scope of supply to include:

- Grinder with 18" cutter stack using 7-tooth cam cutters with spacers in alloy steel, severe duty seals with VITON elastomers rated for 150 psi, green epoxy-coated ductile iron end housings and high-flow siderails, 29:1 speed reducer and 10 hp XPNV, immersible 208-230/460v/3ph/60Hz electric motor with 40' cable
- Channel-mounted ultraframe assembly fabricated in 304 stainless steel
- Guide rail assembly fabricated in 304 stainless steel, approximately 7 ft.
- Haul out chain assembly fabricated in 316 stainless steel, approximately 14 ft. long.



4. Scope of Supply



JWC Muffin Monster Manhole

Control Panel

- PC2200 motor controller in a NEMA 4X FRP enclosure accepting 230v/3ph/60Hz or 460v/3ph/60Hz input power, includes IEC starter with over-current protection, jam-sensing current transformer and micro-PLC
- 24 VDC power supply
- One set of spare fuses
- NEMA 4X 304 stainless steel enclosure
- Controller SN: TBD

Clarifications to the MISCOwater Scope of Supply

1. Terms and Conditions per MISCOwater contract with owner.
2. Standard one year warranty is included.
3. Shipping and handling included.
4. One (1) day of start up supervision by a factory-authorized representative is included



5. Project Schedule

Purchase order received and accepted:	Timeline begins
Submittals Complete:	Week 8
Fabrication of JWC Muffin Monster Manhole Complete:	Week 14
Installation of equipment complete: <ul style="list-style-type: none">• Mobilization of installation crew• Excavation and installation of manhole• Commissioning of system	Week 17
Start-up and training (1 day, 1 trip):	Week 18
Close Project:	Week 19



Project Reference List Wastewater Solutions

FCI - Herlong Headworks Rehabilitation Project

Owner:	Federal Correctional Institution - Herlong Powerhouse FCI Herlong, CA 96113 Phone: (530) 827-8000 ext. 4766 Contact: Matt O'suna
Construction Partner:	MISCOwater - Self-performed 5976 W. Las Positas Blvd. Suite 226 Pleasanton, CA 94588 Phone: (925) 225-1900 Contact: Jason Kanawyer
Project Amount:	\$178,500
Project Duration:	1 month
Project Team:	Jason Kanawyer Richard Gndt
Summary:	Rehabilitation of prison headworks system including sewage grinder replacement and headworks screen rebuild.



Project Reference List Wastewater Solutions

FCI - Mendota Headworks Rehabilitation Project

Owner:	Federal Correctional Institution Mendota 33500 W. California Ave. Mendota, CA 93640 Phone: (559) 274-4247 Contact: Jason Andrews
Construction Partner:	MISCOwater - Self-performed 5976 W. Las Positas Blvd Suite 226 Pleasanton, CA 94588 Phone: (925) 225-1900 Contact: Jason Kanawyer
Project Amount:	\$182,285
Project Duration:	2 weeks
Project Team:	Jason Kanawyer Richard Gnant
Summary:	Rehabilitation of prison headworks system including sewage grinder replacement and headworks screen rebuild.



Collaborative Delivery Solutions

Project Reference List Wastewater Solutions

Woodland Water Pollution Control Facility Band Screen Installation

Owner:	Woodland WPCF 42929 County Road 24 Woodland, CA 95776 Phone: (530) 661-20690 Contact: Chris Fong
Construction Partner:	GSE Construction Company 6950 Preston Ave Livermore, CA 94551 Phone: (925) 447-0292 Contact: Dennis Gutierrez
Project Amount:	\$704,000
Project Duration:	6 months
Project Team:	Mark Humberstone Richard Gmandt Mike Tooley
Summary:	<ul style="list-style-type: none">• Installation of (2) band screens and (4) FRP headworks gates• Removal of old equipment.• Testing, commissioning, start up and training.



Collaborative Delivery Solutions

Project Reference List Wastewater Solutions

City of Milpitas Channel Grinder Replacement

Owner: City of Milpitas
1265 N. Milpitas Blvd.
Milpitas, CA 95035
Phone: (408) 690-6258
Contact: Derek Bryan
Email: dbryan@ci.milpitas.ca.gov

Construction Partner: Overaa Construction
200 Parr Blvd.
Richmond, CA 94801
Phone: (510) 234-0926
Contact: Nick Kebbas
Email: nickk@overaa.com

Project Amount: \$225,600

Project Duration 3 months

MISCO Team Mark Humberstone
Matt Tooley

Summary

- Installation of (2) new Channel Monster sewage grinders to replace worn grinders.
- Removal of existing grinders
- Testing, commissioning, start up and training

7. Firm Project Pricing

Firm Project Cost	Complete furnish and installation of a JWC Muffin Monster Manhole sewage grinder system	\$280,500

*freight included; no tax included

Terms and Conditions: As defined by MISCOwater standard Terms and Conditions.

8. Terms and Conditions

MISCOWATER – TW ASSOCIATES TERMS & CONDITIONS OF SALE

1. ACCEPTANCE

When the Buyer signifies acceptance of this quotation by submission of a Purchase Order or signed MISCOWATER Quotation, it shall become a binding contract when accepted and signed by an authorized signer of the Seller (MISCOWATER). Any changes or amendments to this proposal made by the Buyer must have MISCOWATER's approval in writing to become a part of this contract.

2. DELIVERY

Any shipment or delivery date recited represents our best estimate, but no liability, direct or indirect, is assumed by MISCOWATER for failure to ship or deliver on such dates. Unless otherwise directed, MISCOWATER shall have the right to make early or partial shipments and invoices covering the same to Buyer shall be due and payable in accordance with payment terms hereof. FOB shall be origin.

3. APPROVAL DRAWINGS

Any preliminary drawings or literature attached to our quotation are for illustration purposes only to show approximate arrangements. Specific drawings and submittal data will be furnished for approval as required after receipt and acceptance of the Buyer's order. Fabrication of products or equipment ordered will not begin until approval and direction to proceed is received in writing.

4. PAYMENT

Payment terms, upon credit approval, are Net 30 Days from the date of each invoice issued for each partial or final shipment. Flowdown provisions are not accepted. Retention is not allowed. In the event any payment becomes past due, a charge of 1.5% will be assessed monthly.

5. TAXES AND BONDS

Taxes and bonds are NOT included in our pricing. Any applicable taxes or bonds will be added to the price and shown separately on each invoice.

6. CLAIMS AND BACKCHARGES

Buyer agrees to examine all materials immediately upon delivery and report to Seller (MISCOWATER) in writing any defects or shortages noted no later than 10 days following the date of receipt. The parties agree that if no such claim is made within said time, it shall be considered acceptable and in good order with respect to any defect or shortage which would have been revealed by such an inspection. In no event will MISCOWATER be responsible for any charge for modification, servicing, adjustment or for any other expense without written authorization from MISCOWATER prior to the performance of any such work.

7. SECURITY INTEREST & TITLE

Until all amounts due MISCOWATER have been paid in full, Seller shall retain a security interest in the product and have all rights of a secured party under the California Uniform Commercial Code, including the right to repossess the product or equipment without legal process.

8. WARRANTY

MISCOWATER warrants that the product furnished will be free from defects in material and workmanship when installed, operated and maintained under design conditions and in accordance with the manufacturer's written instructions. Warranties will expire (18) months after shipment or twelve (12) months after start-up, whichever occurs first. Expandable items such as filter or scrubber media are excluded from this warranty.

THIS WARRANTY, INCLUDING THE STATED REMEDIES, IS EXPRESSLY MADE BY SELLER AND ACCEPTED BY PURCHASER IN LIEU OF ALL OTHER WARRANTIES. SELLER MAKES NO WARRANTIES, EXPRESSED OR IMPLIED, OF MERCHANTABILITY, FITNESS OR OTHERWISE, WHICH EXTEND BEYOND THE DESCRIPTION OF THE PRODUCT HEREIN. SELLER WILL NOT BE LIABLE FOR ANY CONSEQUENTIAL, INCIDENTAL OR LIQUIDATED DAMAGES, AND IN NO EVENT SHALL BE LIABLE FOR ANY AMOUNT IN EXCESS OF THE PURCHASE PRICE OF THE PRODUCT PURCHASED ON THIS ORDER.

The foregoing is Seller's only obligation and Buyer's exclusive remedy for breach of warranty, and, except for gross negligence and willful misconduct, the foregoing is Buyer's exclusive remedy against Seller for all claims arising hereunder or relating hereto. Buyer's failure to submit a timely claim as provided shall specifically waive all claims for damages or other relief.

9. CANCELLATION

Should this order be cancelled, Buyer shall be obligated to pay for the level of work performed and products shipped. Work performed includes any engineering, calculations, preparation of submittals, drawings, and/or travel to job site in relation to this order.

10. FIELD WORK

Unless specifically stated on our quotation, installation, start-up service, supervision, operation and training are not included in our pricing of product.

11. COMPLETE AGREEMENT

These terms are intended by the parties as a final expression of their agreement and are intended also as a complete and exclusive statement of the terms of their agreement. No course or prior dealings between the parties and no usages of the trade shall be relevant to supplement or explain any term used in this agreement. This agreement supersedes all prior representations and agreements with respect to the matters set forth herein and may be modified only by a written agreement to and signed by each of the parties.

MISCOWATER: _____
 Title: _____
 Date: _____

By: _____
 Title: _____
 Date: _____

APPENDIX A - Letter of Sole Source Justification

September 30th, 2021

Mr. Jason Andrew
FCI Mendota
FCI Mendota-559-274-4247
33500 W. California Ave.
Mendota, CA

Re: Procurement of MISCOwater Proposal P093021JK_x0

Dear Jason,

Thank you for your consideration of MISCOwater Proposal P093021JK_x0 for the Yolo County Sheriff's Dept Sewage Grinder Installation Project. MISCOwater is proposing to furnish and install genuine equipment necessary to locate a Muffin Monster Manhole in the Monroe Detention Center's main sewage line. The addition of this system will provide the correctional center with increased utility reliability and will alleviate issues around the sewer system.

The Muffin Monster Manhole System is comprised of a muffin monster grinder and a speciality FRP manhole screen which are an integrated system comprised of the following components exclusive to JWC Environmental:

- JWC Environmental 40002-0018 Macho Monster channel grinder - there is no other engineered grinder available on the market in this size range capable of processing the high flows in a correctional setting.
- Engineered FRP manhole with custom guide rails and pre-formed channel to accept grinder.
- Controller Model PC2220 is exclusive to the Muffin Monster Manhole System.

MISCOwater is the exclusive representative of JWC Environmental in the states of California, Nevada, Arizona, Colorado and New Mexico. Furthermore, our business model provides cities and municipalities with an integrated JWC solution on an installed basis. This assures a single source of responsibility for the quality of the installation, performance, and long-term service from the most qualified vendor.

Longtime customers in Northern California frequently partner with MISCOwater to procure JWC Environmental equipment on an installed basis and justify that procurement methodology by matching existing equipment to maintain commonality and minimizing parts cost by utilizing existing inventory. Local examples where MISCOwater has successfully furnished and installed JWC Environmental equipment include the City of Milpitas, the City of Scotts Valley, and the City of Mountain View on a sole-source basis.

The Federal Bureau of Prisons and myriad county jails have utilized JWC equipment country-wide for decades to protect their sewage and collections systems. MISCOwater has been proudly partnered with JWC Environmental for over 40 years providing solutions to utilities throughout the Western United States, and we look forward to working together to successfully provide Yolo County with a system to provide the Facility and its personnel with years of additional trusted service.

Sincerely,



Jason Kanawyer
Account Specialist, MISCOwater