

CITY OF GRANTS PASS
PUBLIC WORKS DEPARTMENT

REQUEST FOR PROPOSALS



PUMP AND MOTOR REBUILD FOR
WATER RESTORATION PLANT

January 2021

**REQUEST FOR PROPOSAL
CITY OF GRANTS PASS WATER RESTORATION PLANT
PUMP AND MOTOR REBUILD PROJECT**

The City of Grants Pass, Oregon, is requesting **quotes** to rebuild two immersible sewage pumps and motors to remanufactured condition.

Pump One, a 16 X 16 model I16K-MD-IEUC6, Wemco Hidrostal screw centrifugal pump.

Material: cast iron with high chrome iron liner and stainless-steel impeller.

Conditions: 11100/10700/12000/2000 GPM.

Against: 38'/41'/30'/30' TDH.

At: 1140/1140/1140/660 RPM.

CW rotation viewed from the top of the motor. Vertical dry-pit pump support base sole plate and 20" X 16" suction box with clean out.

Pump One is located at the City's Water Restoration Plant, 1200 SW Greenwood Ave, Grants Pass, OR 97526.

Motor One, an immersible motor, 150 HP, 1186 RPM, IEUC6 frame, explosion proof enclosure, internal moisture probe, oil bath tandem mechanical seals, 3 phase, 60 HZ, 460V, motor service factor 1.10 with 32' of power and control leads, bearing temperature sensor and float switch, 120V moisture detector relay.

Pump Two, a 10 X 5, model H5K-MH-HEUC4, Wemco Hidrostal screw centrifugal pump.

Material: cast iron with high chrome iron liner and stainless-steel impeller.

Conditions: 1460/2400/1050/400 GPM.

Against: 185'/115'/325'/70' TDH.

At: 1750/1750/1750/900 RPM.

CW rotation viewed from the top of the motor. Vertical dry-pit pump support base sole plate and 10" suction elbow with clean out.

Pump Two is located at the City's Darneille Pump Station, 3100 South River Rd, Grants Pass, OR 97527.

Motor Two, an immersible motor, 110 HP, 1780 RPM, HEUC4 frame, explosion proof enclosure, internal moisture probe, oil bath tandem mechanical seals, 3 phase, 60 HZ, 460V, motor service factor 1.10 with 40' of power and control leads, bearing temperature sensor and float switch, 120V moisture detector relay.

Copies of the Scope of Work, Exhibit A, and City of Grants Pass Professional Services Agreement, Exhibit C, may be obtained on the City of Grants Pass website under 'Request for Proposals', www.grantspassoregon.gov or by calling Dianne Phelan at (541) 450-6110.

Quotes are to be submitted on the Cost Proposal form, Exhibit B, included within the Scope of Work in an envelope.

Proposer is to include with quote a list of Wemco Hidrostal screw centrifugal pumps rebuilt within the last 5 years. The list is to include size of pump, pump application and pump owner reference contact information. The length of list is to be sufficient to demonstrate rebuild expertise.

The deadline for submission of the proposal in response to this RFP is February 16, 2021 before **4:00 pm** local time. The proposal submittals should be labeled and directed to:

City of Grants Pass WRP Pump and Motor Rebuild Project
Attn: Karen Frerk, City Recorder
101 NW A Street
Grants Pass, Oregon 97526

Evaluation Criteria

Proposals shall be reviewed and evaluated based upon cost, experience, and references.

Estimated Time Frame

January 29, 2021	Release date of RFP.
February 5, 2021	Questions for RFP due to City of Grants Pass by 4:00 PM.
February 10, 2021	Responses to questions posted at https://www.grantspassoregon.gov/
February 16, 2021	RFP responses due no later than 4 PM.
February 18, 2021	RFP responses distributed to review committee.
February 22, 2021	Interviews if needed.
February 26, 2021	Letters to firm selected and to firms not selected are faxed and mailed.
March 2021	Item goes before Grants Pass City Council requesting approval of the RFP proposer selected.
March 2021	Proposer begins service.

For additional information please contact Gary Breliniski, Water Restoration Plant Superintendent, at 541-450-6122, gbrelinski@grantspassoregon.gov or Kevin Smith, Water Restoration Plant Maintenance Lead, at 541-450-6124, ksmith@grantspassoregon.gov .

EXHIBIT A

SCOPE OF WORK

Water Restoration Plant Pump and Motor Rebuild Project

Rebuild vertical immersible pump(s) and motor(s). Provide start-up assistance, vibration, frequency, and performance testing, proper impeller to volute clearance, and ensure the units are working correctly. Warranty the pumps for a period of 1 year from date of start-up.

City of Grants Pass staff will remove the units and ship them to the contractor's facility at the City's cost. Contractor will ship completed units to the WRP at the contractor's cost. WRP staff will unload them from the contractor's truck and reinstall them prior to start-up.

Contractor will be responsible for rebuilding pump(s)/motor(s) to "remanufactured"^a condition. The work will include, but is not limited to replacing O-rings, bearings, both mechanical seals, testing of the conductivity probe, motor float switch, and thrust bearing temperature switch, dip, and bake motor, rewind if needed and re-balance rotor. Additional work that may be required may include replacing impeller, replacing impeller liner, pump shafts and other parts. Any additional work or parts will be confirmed with WRP staff before ordering or installation. Additional parts pricing shall be listed on the attached Cost Proposal Form, Exhibit B. All components that are to be reused shall be free of any residual contamination. Additionally, contractor will properly prepare the unit(s) and apply a protective matched coating of paint so that the unit will look new. All replaced parts must be returned to the City for disposal.

The pumps will be available to the Contractor for inspection and/or testing prior to being removed for the rebuilding process. This will be at the WRP staff's convenience and the Contractors expense.

After rebuilding the pump(s) and motor(s), Contractor is responsible for shipping back to the treatment plant (WRP). The contractor will be responsible for being present during startup, performing vibration and frequency testing/balancing to ensure the pump operates at ≤ 2 mils (for motor/pump 1) ≤ 1 mils (for motor/pump 2) peak-to-peak displacement as measured at the top of the motor and ensuring that the pump and motor perform within their rated parameters. Some pumps have a frequency resonance range and this vibration standard shall not apply in those zones.

Units shall be painted completely with a quality, industrial enamel paint. Color should match the existing color. Motor bearing oil will be Shell Pella A, Gulf Mineral Seal Oil 896, or Mobil Velocite #6.

Contractor shall warranty the pump and motor in writing for a period of not less than one year from date of start-up.

^a The unit is completely disassembled. All components are cleaned and inspected. Bearing locations are checked to specification. Electrical testing shall include but not be limited to: hipot (megger) and surge comparison test. Parts that are not within manufacturer's specifications and cannot be repaired are replaced with new. Parts that can be used again are to be refurbished to meet manufacturer's specifications. All "wear" components (bearings, seals, and O-rings) are replaced with new. Unit should function as well or very close to new.

Work shall be completed within **sixty** calendar days after Notice to Proceed, subject to parts availability.

Pump/Motor #1 will be available for the rebuild process when the WRP superintendent is comfortable that the wet season is done. This is normally in late March to early April.

Pump/Motor #2 will be available for rebuild as soon as the contract is signed.

Quotes are to be submitted on the attached Cost Proposal Form, Exhibit B, as stated on page 2. No faxed proposals will be accepted

A sample Professional Services Agreement is attached in Exhibit C for reference.

DETAILED PUMP INFORMATION PUMP/MOTOR #1

WEMCO-HIDRSOSTAL MOTOR DATA SHEET

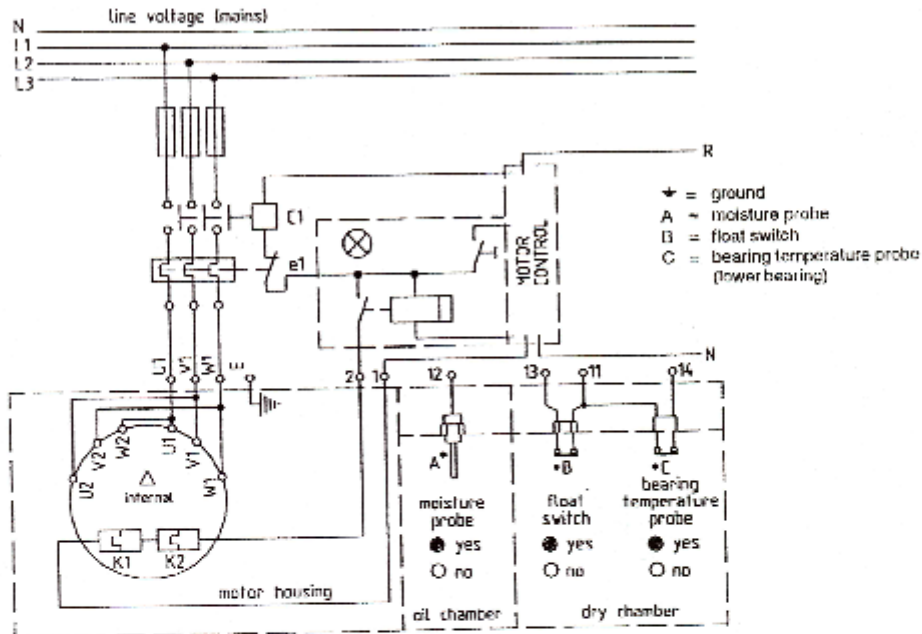
Synchronous Speed	1200	IEUC8
Volts	460	
	HP	150.0
FULL LOAD	RPM	1185
	Efficiency	91.5
PERF	Power Factor	0.80
DATA	Input KW	122.3
	Amps (460V)	190.0
	HP	112.5
75% LOAD	RPM	1189
	Efficiency	91.0
PERF	Power Factor	0.73
DATA	Input KW	92.2
	Amps (460V)	157.0
	HP	75.0
50% LOAD	RPM	1193
	Efficiency	89.0
PERF	Power Factor	0.60
DATA	Input KW	62.9
(Estimated)	Amps (460V)	132.0
Starting Current (est)		1491 amps
Locked rotor current		
Locked rotor torque (est)		750 ft-lbs
Moment of Inertia		
	1.4 kg-m2	
	33.2 lb-ft2	



WIRING DIAGRAM
DIR - START

Δ - Winding (1 power cable)

HIDROSTAT MOTOR 1-SPEED
STANDARD + EEx - PH00F
60 cycles > 30 kW



Operate pump with contactor equipped with thermal protector. The protectors must trip within 6 seconds on locked rotor condition.

Do not start until the temperature limit sensors (terminals 1+2) have been connected. When one limit sensor opens, the power supply to the motor must cut out. The circuit has to be laid out in such a way, that the motor cannot automatically come on again, even after temperature limit sensors have cooled and re-closed the circuit (1+2). The cause of overheating must be determined and corrected before the motor is put back manually into service. After a loss of tension an automatic restart must be possible by return of tension.

- C1 - contactor
- e1 - thermal protector
- K1, K2 - temperature limit sensor

Klaxon type 250 V, 2,5 A
 thermistor

- U1 } motor cable
- V1 }
- W1 }
- E }

1+2 - control cable for temperature limit sensor

- 11+14 - bearing temperature probe
- 11+13 - float switch
- 12+E - control cable for moisture probe

For Ex-proof execution
"intrinsically safe circuit"

ADDITIONAL PROTECTION ELEMENTS
Above indicated elements are installed as an option. For proper connection inside the control panel see sheet 94-TU 5495E.

Client:

Pump type:

Order No.

Motor:

N =

kW

U =

Volts

Cycles

f =

cos φ =

Amp.

DETAILED PUMP INFORMATION PUMP/MOTOR #2

WEMCO-HIDROSTAL MOTOR DATA SHEET

Synchronous Speed		1800
Motor Model 460 V		HEUC4
FULL LOAD PERF DATA	HP	110.0
	RPM	1790
	Efficiency	91
	Power Factor	86
	Input KW	91
Amps (460V)		140
75% LOAD PERF DATA	HP	82.5
	RPM	1791
	Efficiency	89
	Power Factor	79
	Input KW	69
Amps (460V)		118
50% LOAD PERF DATA	HP	55.0
	RPM	1793
	Efficiency	84
	Power Factor	73
	Input KW	49
Amps (460V)		93
Start Amps (460 V)		840
NEMA/NEC Code Lett		G
Cable Type (460 V)		XE1A91
Cable OD		2"
Cable Leads (# X mm)		4 X 50
Locked rotor/run torqu		2.5
Wiring Diagram		98-EL 5808E

Customer: Redwood SSD
WEMCO S.O.: DW02650
Customer P.O.:

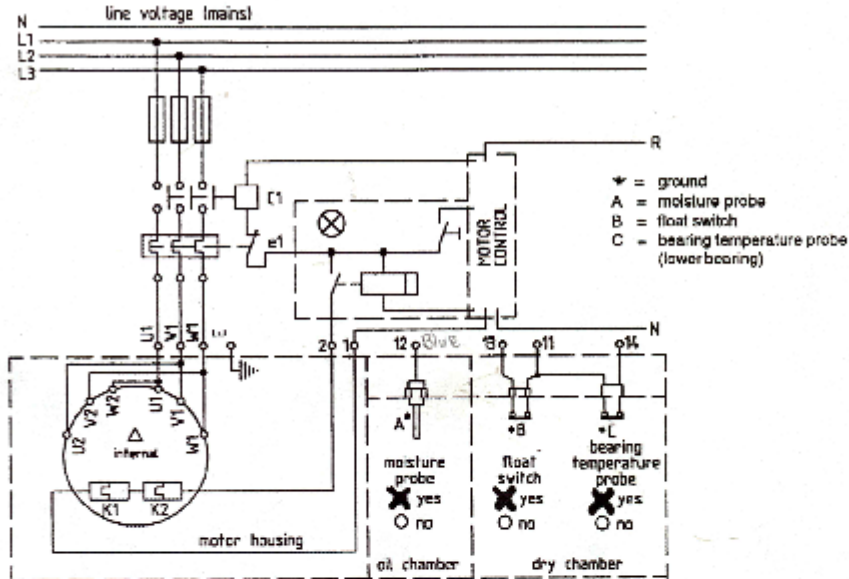
Note: This motor data has been calculated from preliminary tests. Updated data sheet will be released when testing is complete.

These motors have a thermal control cable with 2 leads of 1.5 mm (5/8" OD) and a bearing temperature, float switch and moisture probe control cable with 4 leads of 1.5 mm (5/8" OD).

BRD 3-22-00



WIRING DIAGRAM **HIDROSTAT MOTOR** **1-SPEED**
DIR - START **STANDARD + EEX - PROOF**
 Δ - Winding (1 power cable) **60 cycles > 30 kW**



*K1, K2
Brown
Blue
Yellow/Green
Black*

Operate pump with contactor equipped with thermal protector. The protectors must trip within 6 seconds on locked rotor condition.

Do not start until the temperature limit sensors (terminals 1+2) have been connected. When one limit sensor opens, the power supply to the motor must cut out. The circuit has to be laid out in such a way, that the motor cannot automatically come on again, even after temperature limit sensors have cooled and re-closed the circuit (1+2). The cause of overheating must be determined and corrected before the motor is put back manually into service. After a loss of tension an automatic restart must be possible by return of tension.

- C1 = contactor
- e1 = thermal protector
- K1, K2 = temperature limit sensor Klaxon type 250 V, 2,5 A thermistor
- U1 } motor cable
- V1 }
- W1 }
- E }
- 1+2 = control cable for temperature limit sensor

- 11+14 = bearing temperature probe
 - 11+13 = float switch
 - 12+E = control cable for moisture probe
- For Ex-proof execution "intrinsically safe circuit"

*** ADDITIONAL PROTECTION ELEMENTS**
 Above indicated elements are installed as an option. For proper connection inside the control panel see sheet 94-TU 5465E.

Client:	
Pump type:	Order No.
Motor:	
N = kW U = Volts I = Amp.	
n = rpm f = Cycles cos φ =	
Cable:	mm ² L = m
File: SCHEMA_E	No.: 98-EL 5808E/a
Drawn by / Beaub. Dat. Vis.: 24.03.98 F/W/ml Approved by / Gepr. Dat. Vis.: 24.03.98 F/W	

**Exhibit B
COST PROPOSAL FORM**

WRP PUMP AND MOTOR REBUILDS

Description	\$ Cost
Rebuild pump and motor #1 to remanufactured condition	
Rebuild pump and motor #2 to remanufactured condition	

TOTAL PRICE TO REBUILD PUMPS AND MOTORS \$ _____

Optional Work Description	\$ Cost
Rewind motor #1	
Impeller replacement for pump #1	
Liner replacement for pump #1	
Other:	
Rewind motor #2	
Impeller replacement for pump #2	
Liner replacement for pump #2	
Other:	

Contractor name and contact information

Signature

Printed Name

Estimated completion time after Notice to Proceed _____

EXHIBIT C

PROFESSIONAL SERVICES AGREEMENT



PARTIES: The CITY OF GRANTS PASS, hereinafter referred to as City, and XXXXXXXX, hereinafter referred to as Contractor.

RE: WRP Pump & Motor Rebuild 2021

Based on the terms and conditions contained herein, the Parties agree as follows:

- LABOR AND MATERIALS:** Contractor shall provide all labor, materials of whatever kind and character for completion of the Project. Because this is a professional services contract, City is relying on the expertise and reputation of the Contractor. Therefore, no part of this Project may be contracted out to other persons or firms without the express written consent of the City, except as previously stated in the Contractors proposal.
- SCOPE OF WORK:** Rebuild two immersible sewage pumps and motors to remanufactured condition as described in Exhibit A.
- PROJECT COST:** The City shall pay Contractor an amount not to exceed **\$XX,XXX** for services listed in Section 2 above.
- ADDITIONAL WORK:** All additional (or optional) work shall be approved by the City of Grants Pass prior to commencement of said work.
- ORAL MODIFICATIONS AND WAIVERS:** The City's rights and benefits under this Agreement and any parts thereof may not be orally modified or waived.
- WRITTEN MODIFICATIONS AND WAIVERS:** The rights and benefits of the City, under this Agreement, may be modified or waived so long as said modification or waiver is in writing and signed by the City Manager or the Public Works Department Director.
- PAYMENTS:** Contractor may submit progress billings once every 30 days. Upon satisfactory completion of services listed in Section 2 above, the Contractor shall make a written request for final payment. The City shall make final payment to the Contractor within 30 days of written acceptance by the City.
- WORKMANSHIP:** Contractor's performance under this Agreement shall be done in a professional manner that meets or exceeds industry and professional standards of performance.

9. **WORKERS COMPENSATION COVERAGE:** Contractor and all employers working under this Agreement are subject employers under the Oregon Worker's Compensation Law and shall comply with ORS 656.017, which requires them to provide workers' compensation coverage for all their subject workers. Contractor shall provide proof of coverage at the time of the execution of this agreement and continuing proof of coverage during the period of this Agreement.
10. **LIABILITY INSURANCE:** Contractor shall maintain a policy of liability insurance in the form, and from an insurance company, approved by the City, which company is admitted or otherwise licensed to do business in the State of Oregon. Said insurance shall insure Contractor for the benefit of the City of Grants Pass in not less than the amount of \$1,000,000 single limit liability for each occurrence, and aggregate coverage of not less than \$2,000,000. The insurance shall cover any occurrences, resulting from any conduct, act, or failure to act, by Contractor, or by an employee, representative, or agent of Contractor, and which occurrence or occurrences result in damages of any kind, including, but not limited to, personal injury or death to any person or persons, damage to any property (personal or real), or damage to any contractual or other commercial right or interest. Contractor shall require its insurance carrier to provide to the City a certificate of insurance evidencing said coverage. Said policy shall provide that such coverage cannot be modified, terminated, or canceled by the carrier without 30 days written notice sent by certified mail by the insurance carrier to the City. It is agreed that no person shall perform any acts on behalf of Contractor without having said insurance in full force and effect.
11. **COMPLIANCE WITH ALL LAWS:** Contractor shall:
- A. Make payment promptly, as due, to all persons supplying to such Contractor labor or material for the prosecution of the work provided for in this contract.
 - B. Pay all contributions or amounts due the Industrial Accident Fund from Contractor or a subcontractor incurred in the performance of the contract.
 - C. Not permit any lien or claim to be filed or prosecuted against the state, county, school district, municipality, municipal corporation, or subdivision thereof, on account of any labor or material.
 - D. Pay to the Department of Revenue all sums withheld from employees pursuant to ORS 316.167.
 - E. Promptly, as due, make payment to any person, copartnership, association or corporation, furnishing medical, surgical and hospital care or other needed care and attention, incident to sickness or injury, to the employees of Contractor, of all sums which Contractor agrees to pay for such services and all moneys and sums which Contractor collected or deducted from the

wages of employees pursuant to any law, contract or agreement for the purpose of providing or paying for such service.

- F. Comply with all laws and administrative rules of the United States, the State of Oregon (including specifically ORS Chapter 279C), and the City.
 - G. Not fail, neglect, or refuse to make prompt payment of any claim for labor or services furnished to Contractor or a subcontractor by any person in connection with this contract as such claim becomes due. If failure, neglect, or refusal occur, the proper officer or officers representing the City may pay such claim to the person furnishing the labor or services and charge the amount of the payment against funds due or to become due Contractor by reason of this agreement. The payment of a claim in the manner authorized in this section shall not relieve the Contractor or Contractor's surety from obligation with respect to any unpaid claims.
 - H. Not employ any person for more than eight hours in any one day, or 40 hours in any one week, except in case of necessity, emergency, or where the public policy absolutely requires it, and in such cases the laborer shall be paid at least time and a half pay for all overtime in excess of eight hours a day and for work performed on Saturday and on any legal holiday specified in ORS 279C.540.
12. **ATTORNEY FEES:** If suit or action is brought by either Party to enforce any right created by this Agreement, the prevailing Party shall be entitled to recover in any trial court, and appellate courts, reasonable attorney fees, including costs and disbursements therein.
13. **SEVERABILITY:** In the event any court of competent jurisdiction shall hold any provision of this Agreement invalid or unenforceable, such holding shall not invalidate or render unenforceable any other provision hereof.
14. **NO REMEDY EXCLUSIVE:** The remedies specified in this Agreement are cumulative to one another and to other remedies in law and equity, and no remedy is exclusive. No delay or omission to exercise any right or power accruing upon any default shall impair any such right or power or shall be construed to be a waiver thereof, but any such right or power may be exercised from time to time and as often as may be deemed expedient. To exercise any remedy specified in this agreement it shall not be necessary to give any notice, other than such notice as set forth herein.
15. **HOLD HARMLESS:** Contractor shall indemnify, defend, and hold harmless the City, its officers, agents, and employees, from and against all claims, losses, damages, and liabilities that may arise from the performance or the failure to perform services under this agreement.

16. **ENTIRE AGREEMENT:** This document represents the entire agreement between the Parties. Prior conversations or writings between the Parties which are not specifically incorporated by reference into this Agreement may not be used by the Parties or by a Court of law to interpret the terms and conditions stated herein. Except as specifically set forth herein, prior courses of dealing and performance between the Parties, and trade usage and practices which may or may not be acceptable in the industry, also may not be used by the Parties or by a Court of law to interpret the terms and conditions stated herein. (Madison Indus. Inc. v. Eastman Kodak Co., 243 N.J. Super. 578,581 A.2nd 85 (1990).
17. **TERMINATION:** City may terminate this Agreement at any time for its convenience, so long as it provides Contractor with written notice of termination no less than 15 days prior to the termination date.

IN WITNESS WHEREOF, the Parties have hereto, on the dates indicated, set their hands by and through their duly authorized agents.

CONTRACTOR:

By: _____

Signature

Date

CITY OF GRANTS PASS:

By: _____
Jason Canady, Public Works Director

Date

Aaron K. Cubic, City Manager

Date

Karen Frerk, City Recorder

Date

Approved
As to Form: _____
Mark Bartholomew, City Attorney

Date