



## Recommendation for Water & Wastewater Commission

<b>Commission Meeting Date:</b>	January 13, 2016
<b>Council Meeting Date:</b>	January 28, 2016
<b>Department:</b>	Public Works
<b>SUBJECT</b>	
Authorize execution of a construction contract with <b>MATOUS CONSTRUCTION, LTD.</b> , for the South Austin Regional Wastewater Treatment Plant Tertiary Filter Improvements project, in the amount of \$24,718,610 (base bid + alternates) plus a \$1,235,930 contingency, for a total contract amount not to exceed \$25,954,540. (District 2)	
<b>AMOUNT AND SOURCE OF FUNDING</b>	
Funding is available in the Fiscal Year 2015-2016 Capital Budget of Austin Water.	
<b>Purchasing Language:</b>	Lowest bid of three bids received.
<b>Prior Council Action:</b>	N/A
<b>For More Information:</b>	Steve Parks, 512-974-3576; Brent Bassett, 512-972-0653; Denise Avery, 512-972-0104; Lucy Bonee, 512-974-7967; Sarah Torchin, 512-974-7141
<b>Boards and Commission Action:</b>	January 13, 2016- To be reviewed by the Water and Wastewater Commission.
<b>MBE/WBE:</b>	This contract will be awarded in compliance with City Code Chapter 2-9A Minority Owned and Women Owned Business Enterprise Procurement Program through the achievements of good faith efforts with 15.47% MBE and 0.17% WBE subcontractor participation.

The effluent filters at the South Austin Regional Wastewater Treatment Plant (SAR) serve as the final step in the wastewater treatment process before the effluent is discharged to the Colorado River or reused through the City's water reuse initiative. This final filtration stage, or tertiary filtration, is required in order to comply with Texas Commission on Environmental Quality wastewater discharge and water reuse requirements. The Filter Building and 12 granular media gravity filters were constructed in 1988 with expansion of Treatment Train B and have an average day capacity of 40 million gallons per day (MGD). Many of the filter components and ancillary equipment are in need of replacement due to age and deterioration.

The purpose of this contract is to make improvements to the filter system to provide reliable treatment and performance for an estimated 25-year planning horizon. The work included in the base bid consists of converting four of the existing 12 filter bays from granular media filters to cloth media disk filters. The existing gravity filters will be removed and four 3 MGD disk filter units will be placed in each of the four filter basins. These sixteen disk filter units will provide sufficient capacity to replace the existing filtration system at SAR.

The construction project will consist of complex activities requiring multiple shutdowns of the filter system and the three treatment trains at SAR while existing piping and equipment is removed and replaced with larger equipment, piping and disk filter components. Demolition of existing equipment will be completed to ensure that the new filter system will be functional and conducive to maintenance. Extensive planning and changes to the operation of the plant will be required to mitigate risks of treatment process upsets due to the construction related activities. Additionally, temporary filtration will be provided during the construction process to ensure commitments under the Water Reuse Initiative are met at all times.

The bid documents include seven alternate bid items to allow for completion of various work packages. Alternative 1 includes the addition of eight more disk filter units to increase the total filtration capacity from 48 to 72 MGD, closely matching the 75 MGD average day capacity of the SAR treatment plant. It also includes modifications to the clearwell to increase the flow capabilities during excess flow conditions such as heavy rain events. Alternatives 2 through 6 include removal of mechanical systems associated with the gravity filtration that are no longer required, and includes cleaning debris from the clearwell and mudwell that will be accessible during the construction process. Finally, Alternative 7 provides filtration capacity during construction for the entire plant capacity.

The recommendation for award of this contract includes acceptance of the base bid, plus Alternatives 1 through 6. Alternative 7 is not being accepted due to budgetary considerations.

There has been no public involvement in this project as all work is planned to be completed on the SAR treatment plant site which is a considerable distance from surrounding neighborhoods. No public impact is anticipated.

It is important that major components of this work be conducted outside of the winter months when required plant shut downs of certain parts of the treatment process can be accommodated. Timely approval of this work will provide optimum flexibility for scheduling planned shut downs. Additionally, as this project is the first of several major projects proposed for SAR, prompt approval is requested so that the project can be

initiated and executed in a manner that will not impact forthcoming construction projects.

Due to the potential for unknown conditions at the site, a 5% contingency in funding has been included to allow for the expeditious processing of any change orders. A contingency is an additional amount of money added to the construction budget to cover any unforeseen construction costs associated with the project.

The contract allows 850 working days for completion of this project. This project is located within zip code 78617 (District 2) and is managed by the Public Works Department.

Matous Construction, Ltd. is located in Belton, Texas.

### **M/WBE Summary- Construction Contract w/Alt and Contingency**

Bid documents were distributed to seven general contractors. Bids were opened on October 22, 2015. Six alternate bid items will be included in the contract. Matous Construction, Ltd. submitted the lowest of three bids received:

	<u>Base Bid</u>	<u>Base Bid + Alternates</u>
Matous Construction, Ltd., Belton, TX	\$20,258,610	\$24,718,610
Prota Nogama, JV, Austin, TX	\$25,982,000	\$31,506,000
Pepper-Lawson Waterworks, LLC, Katy, TX	Non-responsive	

The contractor's choice of work methodology provides for 23 areas of subcontracting opportunities which are listed below. Project specific subgoals stated in the solicitation were 2.97% African American; 1.18% Hispanic; 3.23% Native/Asian, and 1.17% WBE. Total participation estimated on base bid amount of \$20,258,610:

<b><u>NON M/WBE TOTAL – PRIME</u></b>	<b><u>\$5,413,716</u></b>	<b><u>26.73%</u></b>
Matous Construction, Ltd., Belton, TX	\$5,413,716	26.73%
<b><u>MBE TOTAL – SUBCONTRACTORS</u></b>	<b><u>\$3,134,006.97</u></b>	<b><u>15.47%</u></b>
<b><u>African American Subtotal</u></b>	<b><u>\$139,784.41</u></b>	<b><u>0.69%</u></b>
Austex Tree Service, Inc., Round Rock, TX (Erosion Controls)	\$20,258.61	0.10%
Lewis Clark Trucking, Pflugerville, TX (Hauling, Trucking)	\$119,525.80	0.59%
<b><u>Hispanic Subtotal</u></b>	<b><u>\$2,864,567.45</u></b>	<b><u>14.14%</u></b>
T. Morales Company Electric & Controls, Ltd., Florence, TX (Construction and Upgrades WWTP)	\$2,862,541.59	14.13%
Easy Drive Stake, Inc., Cedar Park, TX	\$2,025.86	0.01%
<b><u>Native/Asian Subtotal</u></b>	<b><u>\$129,655.10</u></b>	<b><u>0.64%</u></b>
Benquest, LLC, Austin, TX (Diesel Fuel)	\$129,655.10	0.64%
<b><u>WBE TOTAL – SUBCONTRACTORS</u></b>	<b><u>\$34,439.64</u></b>	<b><u>0.17%</u></b>

Stephanie Braun Clayton Photography, Austin, TX (Construction Photography)	\$12,155.17	0.06%
Liquid Waste Solutions, Buda, TX	\$16,206.89	0.08%
Walker Texas Surveys, Inc., Cedar Park, TX (Survey)	\$6,077.58	0.03%
<b>NON M/WBE TOTAL – SUBCONTRACTORS</b>	<b>\$11,675,036.94</b>	<b>57.63%</b>
T. Morales Company Electric & Controls, Ltd., Florence, TX (Electrical)	\$2,264,912.60	11.18%
Ferguson Enterprises, Inc., San Antonio, TX (Piping)	\$1,750,343.90	8.64%
Texas Concrete Materials, Round Rock, TX (Ready Mix Concrete)	\$74,956.86	0.37%
Hartwell Environmental, Austin, TX (WWTP Equipment)	\$133,706.83	0.66%
Seguin Fabricators, Ltd., Seguin, TX (Miscellaneous Steel)	\$350,473.95	1.73%
Odessa Pumps, Boerne, TX (Pumps)	\$119,525.80	0.59%
CMC Steel Fabricators, Round Rock, TX (Reinforcing Steel)	\$62,801.69	0.31%
Proserv Anchor Crane, Irving, TX (Hoists)	\$48,620.66	0.24%
Town Lake Flooring, Austin, TX (Flooring)	\$16,206.89	0.08%
Everett's Acoustics, LLC, Salado, TX (Ceiling Tiles)	\$16,206.89	0.08%
Pump Solutions, Inc., Hutto, TX (Pumps)	\$45,568.94	0.22%
Penhall Company, Austin, TX (Boring, Drilling)	\$350,473.95	1.73%
A & Y Painting, Temple, TX (Painting)	\$301,853.29	1.49%
Aqua-Aerobics Systems, Inc., Loves Park, IL	\$5,279,393.77	26.06%
Prime Controls, Lewisville, TX (Controlling, Indicating and Recording Instruments)	\$860,990.93	4.25%
The Contractor submitted an MBE/WBE Compliance Plan that demonstrated a good faith effort and was approved by the Small & Minority Business Resources Department. Second and third low bidder information is provided.		
SECOND BIDDER - Prota Nogama, JV, Austin, TX \$25,982,000 (base bid) 35.80% NON M/WBE prime participation; 0.14% African American; 11.93% Hispanic; 0.10% Native/Asian; 12.87% WBE; 39.16% Non M/WBE subcontractor participation.		
THIRD BIDDER - Pepper-Lawson Waterworks, LLC, Katy, TX Non-Responsive		

# CERTIFIED BID TAB

<b>CITY OF AUSTIN</b>	PROJECT SPONSOR: AWU	BID OPENING DATE: 10/22/2015
	BID CERTIFICATION: MARYLOU OCHOA	TIME: 1:30 PM
<b>BID TABULATION</b>	AUTHORIZED CONTACT REP: MARYLOU OCHOA	LOCATION: 105 W. Riverside Drive
	PROJECT MANAGER: STEVE PARKS	PRICE EXPIRATION: 90 CAL. DAYS
	PROJECT CONSULTANTS: AECOM TECHNICAL SERVICE, INC.	LIQUIDATED DAMAGES: \$1,210/CAL. DAY

PROJECT: SAR TERTIARY FILTER IMPROVEMENTS	CIP ID NO.: 3333.015	DURATION: 730 CAL. DAYS
BID INVITATION NO: CLMC562	ESTIMATED AMOUNT: \$24,500,000.00	
FDU NUMBER(S): 4480 2307 8236	RESPONSES: 3	

BIDDER(S):	MATOUS CONSTRUCTION, LTD	PROTA NOGAMA, JV	PEPPER-LAWSON WATERWORKS, LLC
LOCATION:	BELTON, TX	AUSTIN, TX	NON-RESPONSIVE
GUARANTEE: BB-Bid Bond CC-Cashiers Check CTC-Cert. Chk.	BB	BB	
ADDENDA ACKNOWLEDGED	2	2	

QUANTITY	UNIT	ITEM DESCRIPTION	UNIT PRICE	AMOUNT	UNIT PRICE	AMOUNT	UNIT PRICE	AMOUNT
1,761	IN. FT.	TRENCH SAFETY SYSTEMS	\$10.00	\$17,610.00	\$1.00	\$1,761.00		
<b>ALLOWANCES</b>								
<b>ALLOWANCES #1</b>		ALLOWANCE FOR PERMITS AND FEES PAID BY CONTRACTOR, AS EVIDENCED BY PAID RECEIPTS, AND REQUIRED FOR COMPLETAION OF THE PROJECT, COMPLETE IN PLACE, FOR		\$5,000.00		\$5,000.00		
<b>ALLOWANCES #2</b>		ALLOWANCE FOR PROCUREMENT OF THE PERMANENT BADGE DECALS OR ID BADGE BLANKS, PER SECTION 00819, FOR		\$1,000.00		\$1,000.00		
<b>SUBTOTAL ALLOWANCES</b>				<b>\$6,000.00</b>		<b>\$6,000.00</b>		

# CERTIFIED BID TAB

BIDDER(S):				MATOUS CONSTRUCTION, LTD		PROTA NOGAMA, JV		PEPPER-LAWSON WATERWORKS, LLC	
BID ITEM	QTY	UNIT	ITEM DESCRIPTION		AMOUNT		AMOUNT		
1	1	LS	REHABILITATION OF THE SOUTH AUSTIN REGIONAL WASTEWATER TREATMENT PLANT FILTERS EXCLUDING WORK ASSOCIATED WITH SPECIAL SPECIFICATION 11399, COMPLETE IN PLACE, FOR		\$ 14,035,000.00		\$ 16,934,239.00		
2	1	LS	DISK FILTER SYSTEM IN ACCORDANCE WITH CONTRACT SPECIFICATION 11399, COMPLETE IN PLACE, FOR		\$ 6,200,000.00		\$ 9,040,000.00		
CALCULATION ERROR FIND AND CORRECTED, ALLOWANCES AND EXCAVATION SAFETY SYSTEMS WERE NOT INCLUDED IN BASE BID.									
BASE BID: (INCLUDES ALLOWANCES AND EXCAVATION SAFETY SYSTEMS UNIT PRICES, IF APPLICABLE.)					\$20,258,610.00		\$25,982,000.00		
ALTERNATE NO. 1	CONVERSION OF EXISTING FILTER BASINS 1 AND 2 TO CLOTH MEDIA FILTERS AND DEMOLITION OF EXISTING BACKWASH PUMP ROOM FLOOR, AND ALL ASSOCIATED STRUCTURAL, MECHANICAL, AND ELECTRICAL AND INSTRUMENTION COMPLETE IN PLACE FOR,				\$ 3,950,000.00		\$ 4,581,000.00		
ALTERNATE NO. 2	CLEANING OF ENTIRE VOLUME OF MUDWELL, COMPLETE IN PLACE FOR,				\$ 100,000.00		\$ 419,000.00		
ALTERNATE NO. 3	REMOVAL OF ALL ABANDONED PIPING IN THE FILTER BUILDING UPPER PIPE GALLERY LEVEL, COMPLETE IN PLACE FOR,				\$ 150,000.00		\$ 290,000.00		
ALTERNATE NO. 4	REMOVAL OF ALL EXISTING AND ABANDONED PIPING AT THE FILTER BUILDING LOWER PIPE GALLERY LEVEL, COMPLETE IN PLACE FOR,				\$ 110,000.00		\$ 149,000.00		
ALTERNATE NO. 5	DEMOLITION AND REMOVAL OF EXISTING AIR SCOUR BLOWERS NOS. 1 AND 2, HIGH PRESSURE AIR COMPRESSOR AND RECIVER, ALL ASSOCIATED VALVES, PIPING, AND INSTRUMENTS, COMPLETE IN PLACE FOR,				\$ 65,000.00		\$ 32,000.00		
ALTERNATE NO. 6	CLEANING OF ENTIRE VOLUME OF CLEARWELLS, COMPLETE IN PLACE FOR,				\$ 85,000.00		\$ 53,000.00		

# CERTIFIED BID TAB

BIDDER(S):		MATOUS CONSTRUCTION, LTD		PROTA NOGAMA, JV		PEPPER-LAWSON WATERWORKS, LLC	
ALTERNATE NO. 7	PROVIDING A TEMPORARY FILTERATION AND BYPASS PUMPING SYSTEM FOR THE DURATION OF CONSTRUCTION, COMPLETE IN PLACE, FOR		\$ 1,375,000.00		\$ 3,910,000.00		
TOTAL BID (BASE BID PLUS ALTERNATE 1)			\$ 24,208,610.00		\$ 30,563,000.00		
TOTAL BID (BASE BID PLUS ALTERNATE 1 & 2)			\$ 24,308,610.00		\$ 30,982,000.00		
TOTAL BID (BASE BID PLUS ALTERNATE 1, 2 & 3)			\$ 24,458,610.00		\$ 31,272,000.00		
TOTAL BID (BASE BID PLUS ALTERNATE 1, 2, 3 & 4)			\$ 24,568,610.00		\$ 31,421,000.00		
TOTAL BID (BASE BID PLUS ALTERNATE 1, 2, 3, 4 & 5)			\$ 24,633,610.00		\$ 31,453,000.00		
TOTAL BID (BASE BID PLUS ALTERNATE 1, 2, 3, 4, 5 & 6)			\$ 24,718,610.00		\$ 31,506,000.00		
TOTAL BID (BASE BID PLUS ALTERNATE 1, 2, 3, 4, 5, 6 & 7)			\$ 26,093,610.00		\$ 35,416,000.00		

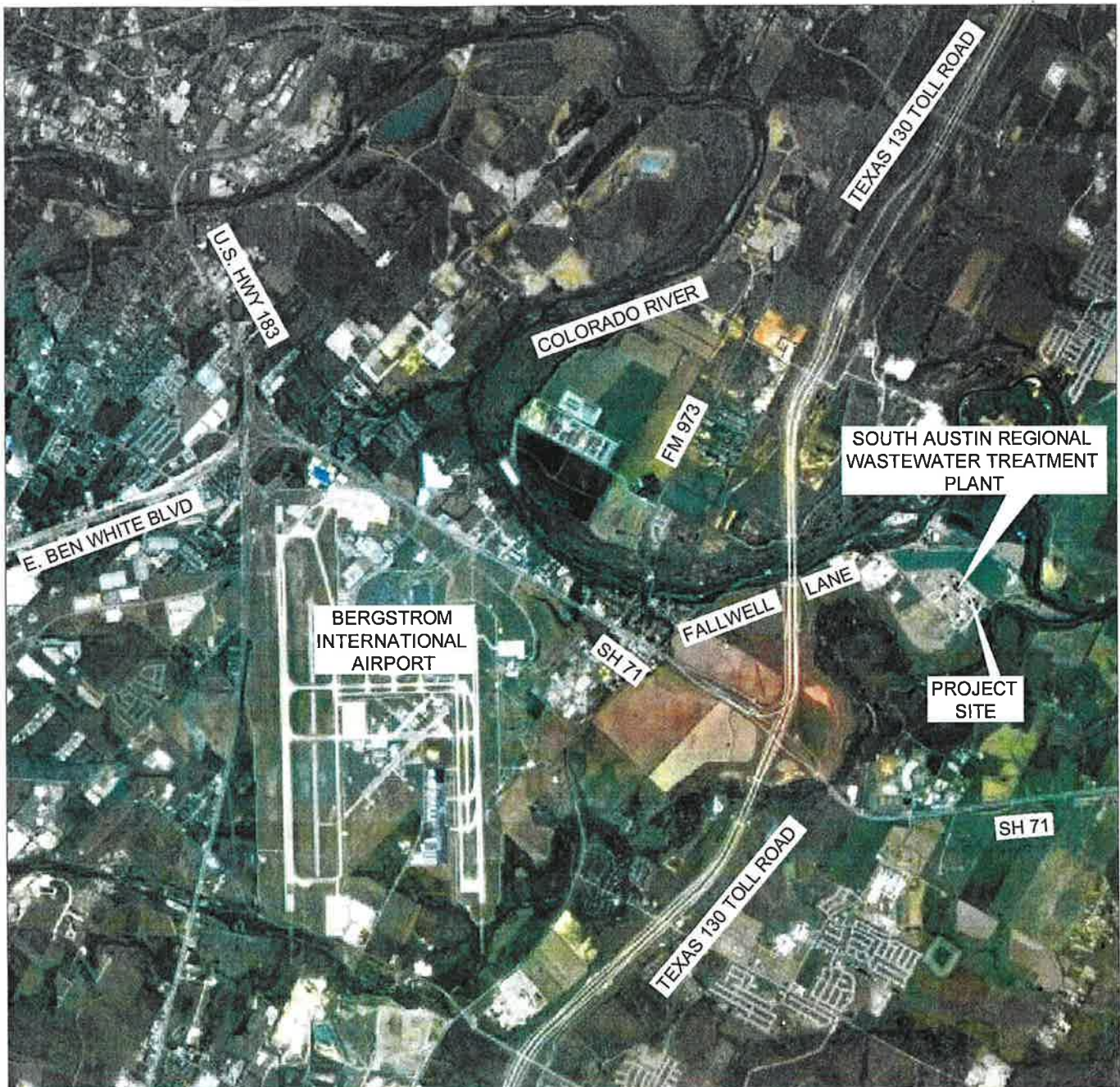
TRUE COPY OF BID TABULATION AS RECEIVED OR  
CORRECTED IN ACCORDANCE WITH CONDITIONS  
GOVERNING PROPOSALS.

*m-o*  
CAPITAL CONTRACTING OFFICE  
CONTRACT PROCUREMENT DIVISION  
CITY OF AUSTIN, TX

12/18/15  
DATE



## SOUTH AUSTIN REGIONAL WASTEWATER TREATMENT PLANT



PROJECT ADDRESS: 1017 FALLWELL LANE, DEL VALLE, TEXAS 78617