

TO: James L. App, City Manager
FROM: Doug Monn, Public Works Director
SUBJECT: Replace Mechanical Bar Screens at the Wastewater Treatment Plant
DATE: April 6, 2010

NEEDS: For City Council to consider awarding a contract to replace the in-channel mechanical bar screens at the Wastewater Treatment Plant (WWTP).

FACTS:

1. The mechanical bar screens at the WWTP separate trash and grit from incoming raw wastewater flow at the headworks.
2. The need to repair the mechanical bar screens was identified by the Wastewater Treatment Plant operators in 2006. The current bar screens were installed in the early 1950s and have outlived their useful life.
3. The plant operators have experienced on-going problems with them, namely:
 - a) the metal sleeve for the main drive pin has worn out and there is no more metal left to hold the pin in place,
 - b) the electrical controls have deteriorated beyond repair,
 - c) the control box wires have a short in the system which results in electrical outages every other month,
 - d) the track for the bar screens is worn out and sticks and causing flow to back-up,
 - e) staff has to manually rake off the residue from the bar screens,
 - f) staff has to manually dump the solids from the wheelbarrows, which results in overtime work on weekends,

Attached is a photo of the existing system.

4. Construction documents were put out for bid, and at the bid opening on March 25, 2010 eight bids were received as follows:

Spiess Construction	\$ 202,338
Specialty Construction.....	203,633
R. Baker Corporation	206,673
American, Inc.	207,700
Cushman Contracting.....	217,988
Wellsona Iron & Engineering.....	218,000
HPS Mechanical	237,966
Ahrens Corporation	256,600

ANALYSIS &

CONCLUSION: Staff reviewed the low bid submitted by Spiess Construction in the amount of \$202,338 and found it to be a responsible and responsive bid.

POLICY

REFERENCE: Sewer Operations Manual

FISCAL

IMPACT: The Wastewater Treatment Division's Maintenance and Operations budget has a current balance of \$743,000. With 75% of the year already elapsed, it is projected there will be a remaining \$350,000 in the budget that can be used for the cost to replace the aging mechanical bar screens.

- OPTIONS:**
- a. Adopt Resolution No. 10-xx awarding the contract to replace the in-channel mechanical bar screens at the Wastewater Treatment Plant to Spiess Construction in the amount of \$202,338.
 - b. Amend, modify, or reject the above option.

Prepared by: Ditas Esperanza, P.E., Capital Projects Engineer

Attachments: Resolution
Photo of existing system
Exhibit of proposed system

RESOLUTION NO. 10-xx

A RESOLUTION OF THE CITY COUNCIL OF THE CITY OF PASO ROBLES
AWARDING A CONTRACT TO REPLACE THE MECHANICAL BAR SCREENS
AT THE WASTEWATER TREATMENT PLANT

WHEREAS, the in-channel mechanical bar screens at the Wastewater Treatment Plant (WWTP) separate trash and grit from incoming raw wastewater flow at the headworks; and

WHEREAS, the current bar screens were installed in the early 1950s and plant operators have experienced on-going problems with them, resulting in outages for repair and maintenance; and

WHEREAS, the condition of the bar screens is such that they will need repair prior to a future plant expansion; and

WHEREAS, bid plans and specifications were prepared and put out for bid, and at the bid opening on March 25, 2010, eight bids were received ranging from \$202,338 to \$256,600; and

WHEREAS, staff reviewed the low bid submitted by Spiess Construction and found it to be a responsive and responsible bid; and

WHEREAS, the Wastewater Treatment Division's Maintenance and Operations budget has a current balance of \$743,000, with a projected remaining balance of \$350,000 by the end of the fiscal year; and

WHEREAS, the Wastewater Treatment Maintenance and Operations budget can be used to cover the costs to replace the mechanical bar screens.

NOW, THEREFORE, BE IT RESOLVED AS FOLLOWS:

SECTION 1. The City Council of the City of Paso Robles does hereby award a contract to Spiess Construction in the amount of \$202,338 to replace the in-channel bar screens at the Wastewater Treatment Plant, and does hereby authorize the City Manager to sign the contract on behalf of the City.

PASSED AND ADOPTED by the City Council of the City of Paso Robles this 6th day of April 2010 by the following vote:

AYES:

NOES:

ABSTAIN:

ABSENT:

Duane Picanco, Mayor

ATTEST:

Lonnie Dolan, Deputy City Clerk

PROJECT #6
REPLACE EXISTING BAR SCREEN EQUIPMENT



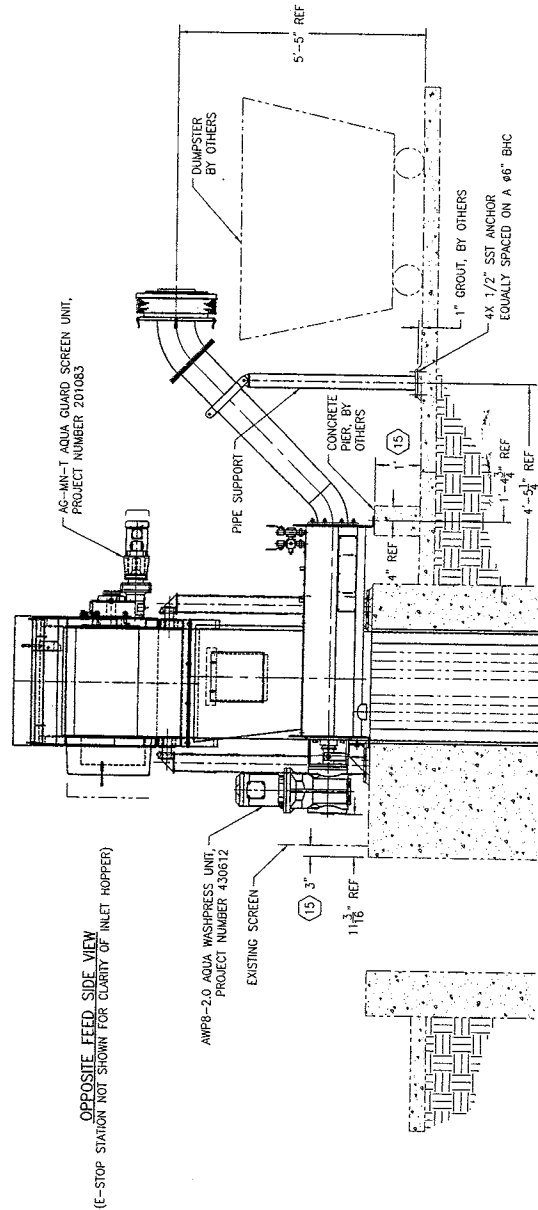
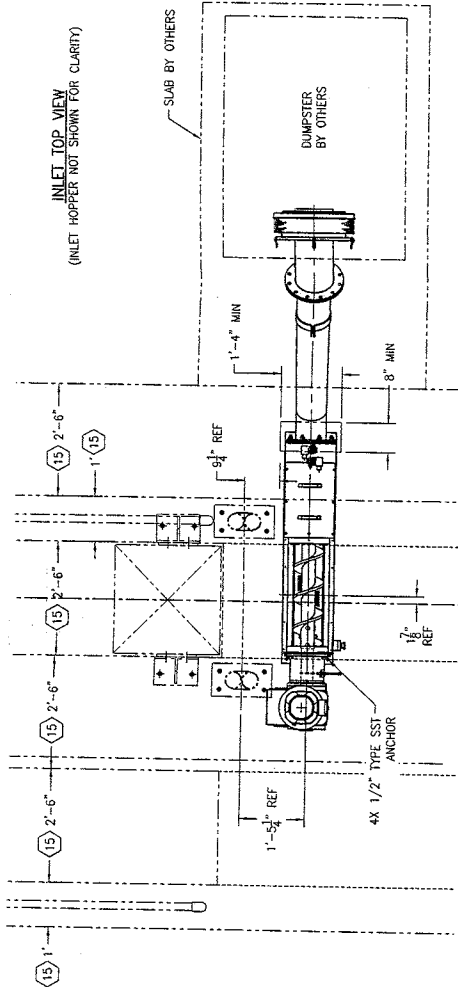
Existing Screening Equipment

**Note: Currently solids
are hauled manually via
wheelbarrows.**

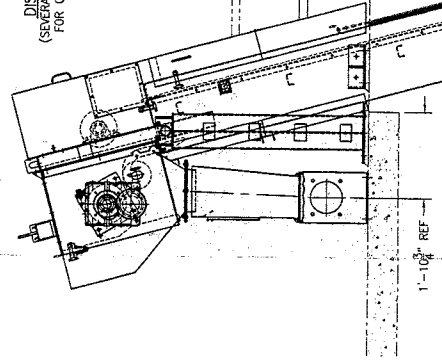


Holding Bin for solids

NOTE: REFER TO SHEET 1 OF 3 FOR AWPB-2.0 AQUA WASHPRESS UNIT DETAILS AND NOTES AND TO SHEET 2 OF 3 FOR INLET HOPPER CHUTE GUARD AND DISCHARGE CHUTE DETAILS



DISCHARGE END VIEW
(SEVERAL COMPONENTS NOT SHOWN
FOR CLARITY OF INLET HOPPER)



PROJECT NAME PROJECT NUMBER 430612 PASO ROBLES WASTEWATER TREATMENT PLANT PASO ROBLES, CALIFORNIA		TITLE MODEL NUMBER AWPB-2.0 AQUA WASHPRESS UNIT SCREENINGS WASHER/COMPACTOR UNIT		REV 43061201 SHEET 3 OF 3	
PRELIMINARY <input checked="" type="checkbox"/> APPROVAL INFORMATION <input type="checkbox"/> CERTIFIED	DRAWN BY DATE 3/18/10	CHECKED BY KSH DATE 3/22/10	SCALE 3/8" = 1'-0"	DESCRIPTION DATE BY	REV
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PROPOSED SYSTEM