

CONSTRUCTION PHASE ENGINEERING**Lift Station Reconstruction and System Improvements
Phase IV - Bid No. 50-00
Pecos, Mimosa and Thomas Manor No. 1 Lift Stations****BY: ENGINEERING ASSOCIATES INC.****MONTHLY PROGRESS REPORT NO. 4****FOR PERIOD OF MARCH 1, 2001 THROUGH MARCH 31, 2001****1) ACTIVITIES REPORT****a. Construction**

The following is a chronological summary of construction activities during March, 2001:

On March 1, 2001 the Contractor was notified that El Paso Electric Company had completed the extension of electrical power to the Pecos Lift Station and that the Contractor's electrical work could begin.

On March 1, 2001 ductile iron pipe was delivered to the three lift stations.

From March 1, 2001 through March 8, 2001 ductile iron piping was installed at the three lift stations.

From March 8 to March 13, 2001 rainwater was removed from the Mimosa Lift Station valve vault. The electrical subcontractor installed new service poles at the Pecos Lift Station.

On March 14, 2001 concrete was chipped from the walls of the wetwell and valve vault at the Mimosa Lift Station to install piping.

On March 15, 2001 chipping out concrete at the Mimosa Lift Station was finished and installation of ductile iron piping was resumed at the Thomas Manor No. 1 Lift Station.

From March 16, 2001 through March 20, 2001 installation of ductile iron piping continued at the Thomas Manor No. 1 Lift Station.

On March 21, 2001 installation of ductile iron piping was completed at the Mimosa and Thomas Manor No. 1 Lift Station wetwells and valve vaults. Backfilling began around those wetwells and valve vaults. Ductile iron piping was almost complete at the Pecos Lift Station wetwell and valve vault. The Contractor prepared to pour the concrete tops of wetwells and valve vaults at Mimosa and Thomas Manor No. 1 Lift Stations. The electric meter was installed at the Pecos Lift Station and inspected by El Paso Electric Company.

On March 22, 2001 the Contractor was notified that the 6" check valves installed in the discharge piping of the three lift stations are not as specified.

On March 23, 2001 the Contractor was advised at the Pecos Lift Station site that the check valves that had already been installed must be replaced with the specified check valves. The Contractor removed the trench shield from The Pecos Lift Station site

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On March 26, 2001

On March 31, 2001 approximately 59% of contract time had been expended, and 30 % of the work (by cost) had been completed

b Engineering

The following is a chronological summary of construction phase engineering activities during March, 2001:

On March 1, 2001 the Engineer notified the Contractor in writing that El Paso Electric Company completed the extension of electrical power to the Pecos Lift Station site on February 27, 2001 and that the electrical work included in this project could begin.

On March 1, 2001 air conditioner submittals were received and transmitted to the Electrical and Mechanical Engineers for review.

On March 1, 2001 Pay Request No. 3 was signed by the Engineer and transmitted to El Paso Water.

On March 2, 2001 a construction meeting was held. The Contractor was notified that his work was behind schedule; that 45 % of the contract time had been expended; and that only 24 % of the contract work (by cost) had been completed. The Contractor was reminded that prices for Work Directives No. 3 and No. 4 must still be negotiated and that payment of those prices can only be made by means of approved change orders.

On March 13, 2001 the Electrical and Mechanical Engineers were reminded that electrical and air conditioner submittals had not yet been reviewed and that they were urgently needed. El Paso Water was advised that construction on this project was falling behind schedule.

On March 19, 2001 the Electrical and Mechanical Engineers were told again that the electrical and air conditioner submittals were urgently needed.

On March 21, 2001 the Electrical and Mechanical Engineers were asked by letter when they would complete their review of electrical and air conditioner submittals. The Contractor was reminded that he was behind schedule and asked to provide an updated construction schedule.

On March 22, 2001 the Contractor was told that the 6" check valves already installed in the lift stations must be replaced with the specified check valves with levers and weights. EPWater was advised of the check valve problem. The Contractor was reminded that an existing electrical drop pole near the existing lift station must be removed before performing Work Directive No. 3.

On March 23, 2001 the Contractor was told at the job site that the wrong check valves had been installed in the lift stations and that they must be replaced with the specified check valves.

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2) **CONSTRUCTION WORK COMPLETED**

a. **Thomas Manor No. 1 Lift Station**

The new wetwell and valve vault have been constructed; the influent line has been installed from the street right of way to the wetwell and the trench has been backfilled; the ductile iron pipe has been delivered and installed in the wetwell and valve vault; and a temporary fence has been installed around the site. Approximately % (by cost) of the Thomas Manor No. 1 Lift Station has been completed.

b. **Mimosa Lift Station**

The new manholes and influent lines to divert sewage flow to the new station have been installed; the new wetwell and valve vault have been constructed; the ductile iron pipe has been delivered and installed in the wetwell and valve vault; and rainwater has been removed from the valve vault. Approximately % (by cost) of the Mimosa Lift Station has been completed.

c. **Pecos Lift Station**

The new wetwell and valve vault has been constructed; site grading is almost complete, electrical power has been extended to the site; new electrical service poles have been installed; the ductile iron pipe has been delivered and installed in the wetwell and valve vault. The electrical service pole and meter has been inspected and approved by El Paso Electric Company. Approximately % (by cost) of the Pecos Lift Station has been completed.

3) **KEY ISSUES**

a. **Work Directive No. 3**

This work directive changes the location of the Pecos Lift Station influent line. It will increase project cost an estimated \$ 4, 010.00. It has been accepted by El Paso Water and issued to the Contractor, but the work has not yet begun. A price for performing the work has not yet been negotiated

b. **Work Directive No. 4**

This work directive changes the location of the Thomas Manor No. 1 Lift Station influent line. It will increase project cost an estimated \$ 1,300.00. It has been accepted by El Paso Water, issued to the Contractor, and it has been completed except for connecting the new influent line to the existing sewer. A price for performing the work has not yet been negotiated.

Construction Delays

The Contractor was notified on March 7, 2001 and on March 20, 2001 that construction was behind schedule, and he was directed to submit an updated schedule adjusted to indicate that the project can be Substantially Complete by July 8, 2001, as required by the contract.

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d. Check Valves

The Contractor was notified that the wrong check valves were installed in the lift station discharge piping and that they must be replaced with check valves with lever and weight as specified.

e. Payment for Laboratory Testing

The Contractor requested information from the Engineer concerning payment for laboratory testing services. The Engineer referred him to the Contract Documents, Page 01000-1 of SECTION 01000 GENERAL

4) PROJECT SCHEDULE

a. Engineering Work

Engineering work is proceeding on schedule, except for the review and return of electrical and air conditioner submittals that were returned to the Contractor 32 and 23 days respectively after their submission. All other submittals and all requests for information have been handled promptly. All construction has been inspected on a daily basis. The Construction Phase engineering work is about 50 % complete.

b. General Contractor

The work of the General Contractor is behind schedule. On March 31, 2001 about 59 % of the contract time had been expended, and only 30 % of the work (by cost) had been completed. An updated construction schedule indicating that the project can be completed on time has been requested. Construction delays and the possible assessment of liquidated damages will be discussed at the next construction meeting on April 6, 2001.

TOTAL PROJECT COMPLETION TO DATE 30.0 %

END OF REPORT