

## **STRUCTURE 332B**

This structure is a five-unit plant located south of Pump Station 331, along the L-31N canal. Construction of S-332B began on January 29, 2000 and was completed on April 12, 2000. This is a temporary pump station authorized by the United States Army Corps of Engineers. It is able to pump water from the L-31N canal and discharge through 5 to 60 diameters. Half-mile long pipes cross-adjacent farmland into a 2700-foot square detention area at the Parks boundary, from which it would seep into the park. The detention area and adenize pump station pad will remain an as permanent feature for the C-111 project. The discharge pipe system will be temporary feature that will be removed on completion of the permanent S-332B pump station in the future.

### **PURPOSE**

The structure is part of the Interim Operating Plan (IOP).

### **OPERATION**

The structure is operated as directed by the U.S. Army Corps of Engineers (COE). The pump can be operated remotely from the S-331 pumping station. The minimum pumping stage is 3.0 feet.

### **DESIGN DISCHARGE CHARACTERISTICS**

Discharge rate: 575 CFS  
Headwater stage: per Corps of Engineers criteria  
Tailwater stage:

### **DESCRIPTION OF STRUCTURE**

Type: 5 pumping units sitting on top of steel grated platform  
Type of pumps: Vertical axial flow  
Control: Manually or auto telemetry remote pump control

### **NUMBER AND SIZE OF PUMPS**

Number of pumps: 4

Size & type of pumps: Vertical propeller axial flow 48in  
 Diameter of propeller: 42 in  
 Impeller speed: 443 RPM  
 Design rating: 125 CFS / 56104 GPM  
 Pump manufacturer: MWI Couch Pump Company  
 Engine Horsepower: 425  
 Engine Speed: 1800 RPM  
 Contract costs: \$9,706,000

### **US MOTOR**

Number of pumps: 1 US motor  
 Size & type of pumps: Vertical propeller axial flow 48in  
 Diameter of propeller: 30 in  
 Impeller speed: 600 RPM  
 Design rating: 75 CS / 33,662 GPM  
 Pump manufacturer: MWI Couch Pump Company  
 Engine Horsepower: 250  
 Engine Speed: 1785 RPM  
 Contract costs:

### **GATES**

Type and location: Flap gates on down steam end of discharge pipe. Located 1/2 mile west of station.

### **POWER SOURCE**

Normal: Commercial electricity  
 Emergency: Generator

**ACCESS:** The structure is reached from Krome Ave (SR27) by traveling 2 miles west on Richmond Drive. SW 168 Street, then follow L-31N on west side 5 1/2 mile south to station

**HYDRAULIC AND HYDROLOGIC MEASUREMENTS:**

Water Level: Remote digital headwater and tailwater recorder.

Pump Status: Remote digital recorder