

## STRUCTURE G-208

This structure is a one-unit pumping station. It is located on Canal C-40 about 2 miles upstream of Lake Okeechobee near Structure S-72. Contract number is C90-1005. Drawing number is C-40-10. The project was completed in June 1991.

### PURPOSE

This structure is used to supply water from Lake Okeechobee to maintain the optimum level in Canal C-40 between S-75 and S-72 when Lake Istokpoga is below its regulatory schedule. The purposes are to decrease the demand for water from Lake Istokpoga and to provide an alternative source of water for Brighton Seminole Indian Reservation.

### OPERATION

The pump will be used when Lake Istokpoga is below its regulatory schedule. The pump is turned on and off by the manual on/off switch on the motor controller. The pumps can also be operated remotely through the telemetry system. The pump control panel will prevent the pump from running when any of the following conditions occur:

1. The gates at S-72 are open.
2. There is no water to pump due to blockage of the intake, intake water level is below 10.0 feet.
3. Excessive motor vibration.

When Structure S-72 is on automatic, the pump should be turned off before the water level reaches the gate open level.

### DESIGN DISCHARGE CHARACTERISTIC

Discharge Rate                    135 cfs (60,000 gpm)

Headwater Stage                    10 feet

Tailwater Stage                    20.2 feet

Gate

Type:     48 inches flag gate at downstream end of discharge pipe

Power:

Normal      commercial electricity

Emergency   None

Pump Speed: Remote tachometer

**ACCESS:** Structure can be accessed through State Road 78 via access road on west levee of C-40.

**HYDRAULIC AND HYDROLOGIC MEASUREMENT**

Water Level                      Telemetry upstream and downstream levels

Recorder

Pump Status                      Telemetry recorder