CULVERT 4A

This structure is a double barreled corrugated culvert located between S-2 and S-3, through LD-2 Levee. Control is effected by flap gate located on the Lake Okeechobee side of the structure.

PURPOSE

This structure provides flood control and irrigation water for the South Shore Drainage District.

OPERATION

The Structure is operated by the Corps of Engineers' Clewiston office. South Shore Drainage District has a two unit pumping station connecting to this structure through a short canal. For drainage, water is pumped into Lake Okeechobee through the canal and this structure. The flap gates prevent water from the Lake backing into the canal. For irrigation releases from Lake Okeechobee, the flap gate can be lifted manually to supply water to the pumping station. Water can be discharged through the pumping station by two 6 foot weirs or the pump. Each weir is 6 feet wide and its crest is determined by the number of flash boards in place. The measuring point for the boards is at elevation 20.08 feet above mean sea level. The pumping capacity of each pump is 8.3 acre-feet per hour as measured on December 13, l989.

DESCRIPTION OF STRUCTURE

Type: Corrugated metal culvert with lake side control

Number of Barrels: 2

Size of Barrels: 10 feet diameter

Net Length: 170 feet

Flowline Elevation: 5.5 feet

Service Bridge Elevation:

Water level which will by-pass structure: 34 feet

Gates

Number: 2

Type: flap gate

Size: 120 inches diameter

Control: Manually lifted by crane when head different is less than 1 foot.

ACCESS: Structure is located on Levee LD-2 between S-2 and S-3

HYDRAULIC AND HYDROLOGIC MEASUREMENTS

Water Level: Upstream and downstream staff gauge.

Rain Gauge: None