

G-151

This structure is a double concrete box culvert, located beneath County Road 835 in the L-2 West canal. Control is effected by flashboards located on the west side of the structure.

PURPOSE

This structure provides flood control for L-2 West basin and conveys allowable release from Montura Reservoir. It maintains the optimum upstream water stage for irrigation and environmental purposes.

OPERATION

The upstream stage is maintained at 18.5 during the dry season and 16.00 during the wet season insofar as possible. It also needs to maintain a 15 feet wide littoral shelf along the north bank of the L-2W. The littoral shelf ranges in elevation from 14 to 15 feet. The operations of this structure will coordinate with the release from the Montura Reservoir to convey the reservoir release through this structure safely. The structure will be operated ~~by Devil's Garden Water Control District according to Contract No. 89-0100~~ South Florida Water Management District. In May 1991, the headwall of this structure was washed out. The District rebuilt this structure. According to design engineer, do not let headwater rise above 20.0' to prevent future problem.

FLOOD DISCHARGE CHARACTERISTICS

| | Design |
|---------------------|------------|
| Discharge Rate | 700 cfs |
| Headwater Elevation | 20.78 feet |
| Tailwater Elevation | 20.21 feet |

DESCRIPTION OF STRUCTURE

| | |
|---------------------------|--|
| Type: | <u>Reinforced concrete box culvert with upstream control</u> |
| Number of Barrels: | <u>2</u> |
| Size of Barrels: | <u>10 feet wide by 8 feet high</u> |
| Net Length | <u>60 feet</u> |
| Flow Line Elevation: | <u>9.0 feet</u> |
| Service Bridge Elevation: | <u>19.53 feet</u> |

Water Level which will by-pass structure 21 feet

Stop logs:

Number of bays: 4

Size: 3" X 7.5" X 71.5"

Reference point: Top of grating elevation 19.53 feet

ACCESS: Structure is located at intersection of L-2W and County Road 835.

HYDROLOGIC AND HYDRAULIC MEASUREMENTS

Water Level: Upstream and downstream staff gauges.

Rain Gauge: None