

STRUCTURE 151

This structure is a six-barreled corrugated metal pipe culvert, located at the point where L-67A crosses the Miami Canal, about 20 miles west of Miami. Control is effected by six manually operated sluice gates mounted on a steel frame erected on the upstream of the structure.

PURPOSE

This structure permits release of water from Conservation Area 3A to supply water needs to South Dade County and along the Miami Canal (C-6), C-7 and C-8 during the dry season. It also can be used to discharge excess water from Conservation Area 3A into 3B, when capacity is available in the Miami Canal, to seaboard.

OPERATION

This structure is manually operated under either flood or normal conditions.

Flood Conditions

The gates of this structure are opened whenever:

1. Excess storage is present in the Conservation Area 3A prior to hurricane season, that is, when the stage in Conservation Area 3A is above the Regulation Schedule, measured as the average of the three gauges 63, 64 and 65.
2. The tailwater elevation will not exceed 10.0 feet.

Normal Conditions

When operations are not required under Flood Conditions, releases shall be made, as necessary, to downstream water requirements so as to maintain the optimum downstream stages throughout Dade County.

FLOOD DISCHARGE CHARACTERISTICS

	Design
Discharge Rate	<u>1105</u> cfs
	* <u> </u> % of SPF
Headwater Elevation	<u>7.5</u> feet
Tailwater Elevation	<u>6.4</u> feet

Type Discharge controlled submerged
*Designed for Normal Conditions. Discharge of Conservation Area 3
for Standard Project Flood designed to be passed through S-12 alone.

DESCRIPTION OF STRUCTURE

Type Corrugated metal pipe culverts with upstream control

Number of barrels 6

Size of barrels 84 inches

Length of barrels 98 " feet each

Flow line elevation -1.5 feet

Service bridge elevation 17.0 feet

Gates

Number 6

Type Hardisty Model 30-05C

Size 84 inch diameter

Control Manual

Lifting Mechanism -

Type Hoist Pedestal mounted, type U, manually operated

Date of Transfer: July 27, 1962

ACCESS: from U.S. Highway 27 to S-9 and from there via access road on top of L-67A

HYDRAULIC AND HYDROLOGIC MEASUREMENT

Water Level Staff gauge at headwater & tailwater

Gate Position Recorder None

Rain Gauge None

DEWATERING FACILITIES (per gate) None