

STRUCTURE 124

This structure is a five-barreled, corrugated metal pipe culvert, located in the borrow pit of L-35A just north of the junction of the borrow pit and the North New River Canal, about 13 miles west of Fort Lauderdale. It is a divide structure between the C-13 and North New River Basins. Control is effected by manually operated sluice gates mounted on structural steel frames erected on the upstream end of the culverts.

PURPOSE

This structure functions together with S-125, S-38C and S-36 to maintain an optimum water surface elevation in the C-13 Basin, east of Conservation Area No. 2 and to maintain a stage in L-35A borrow to limit seepage through L-35A from Conservation Area 2B. It also is used to discharge excess water from the C-13 Basin for pumping to Conservation Area 3 or for discharge to tidewater when capacity is available in the North New River Canal.

OPERATION

This structure is manually operated in accordance with levels within the C-13 Basin and with levels and pumping operations in the North New River as shown on the accompanying chart.

FLOOD DISCHARGE CHARACTERISTICS

	Design
Discharge Rate	<u>350</u> cfs
	* <u> </u> % of SPF
Headwater Elevation	<u>6.9</u> feet
Tailwater Elevation	<u>6.0</u> feet
Type Discharge	uncontrolled <u>submerged</u>

*Design not related to Standard Project Flood.

DESCRIPTION OF STRUCTURE

Type corrugated metal pipe culverts with upstream control
Number of barrels 5
Size of barrels 72 inches
Length of barrels 48" feet each

Flow line elevation -1.0 feet

Service bridge elevation 10.5 feet

Water Level which will by-pass structure 7.5 feet

Gates

Number 5

Type Armco Model 35-05C, spigot back

Size 72 inch square

Control Manual

Lifting Mechanism

Type hoist bench type, manually operated

Date of Transfer: June 21, 1966

ACCESS: SR84 through Markham Park to Service Road

HYDRAULIC AND HYDROLOGIC MEASUREMENTS

Water Level: Remote, digital upstream & downstream

Gate Position Recorder: None

DEWATERING FACILITIES (per gate) None