

## TRAIL GLADES CULVERT G-119

This structure is a double-barreled, corrugated metal pipe culvert located on the Tamiami Canal about 1/4 mile east of the Krome Avenue crossing of the Tamiami Canal 19 miles west of Miami. Control is effected by manually operated sluice gates mounted on a frame erected on the upstream or west end of the structure.

### **PURPOSE**

This structure permits supplemental deliveries from Conservation Area 3 to supply water needs in eastern Dade County via the L-30 or L-29 canals. It also can be used to discharge limited quantities of excess water from Conservation Area 3A or from the L-31N, L-29 and L-30 drainage basins east and south of Conservation Area 3B when capacity is available in the Tamiami Canal.

### **OPERATION**

This structure is operated to make supplemental deliveries to East Dade County. Such releases are initiated when the headwater stage at either S-25B or S-22 falls below the optimum stage of 2.0 during dry periods.

The structure may also be used to make flood releases when downstream conditions will not be aggravated (when the stage at T-5 the junction of C-4 and C-2 is less than 3.0).

### **FLOOD DISCHARGE CHARACTERISTICS**

|                     |                                |
|---------------------|--------------------------------|
|                     | Design                         |
| Discharge           | <u>200</u> cfs                 |
|                     | * % SPF                        |
| Headwater Elevation | <u>4.2</u> feet                |
| Tailwater Elevation | <u>3.7</u> feet                |
| Type Discharge      | Controlled<br><u>Submerged</u> |

\*Design not related to Standard Project Flood

**DESCRIPTION**

Type Corrugated metal pipe culverts with upstream control

Number of barrels 2

Size of barrels 72 inches

Length of barrels 64 feet

Flow line elevation -3.5 feet

Road crossing elevation 10.0 feet?

Gates

Number 2

Type Slide gates

Size 72 inch diameter

Control Manual

Lifting Mechanism -

Type Hoist Pedestal mounted, Type U, manually operated

**ACCESS:** Structure located adjacent to U.S. Highway 41 (Tamiami Trail)

**HYDRAULIC AND HYDROLOGIC MEASUREMENTS**

Water Level Upstream and downstream staff gauges only

Gate Position Recorder None