

**L-1 Control Culvert
G-136**

This structure is a three-barreled corrugated metal pipe culvert, located at the bend in L-1 about 3 miles north of SR 832. Control is affected by stop logs in risers in each culvert.

PURPOSE

This structure permits discharge from the west through L-1 East into the Miami Canal during periods of excessively high stages.

OPERATION

The log crest is set at 13.0 in the wet season and at 14.0 in the dry season. Log crest will be raised to 14 when the tailwater stage exceeds 15.5.

FLOOD DISCHARGE CHARACTERISTICS

	Design
Discharge Rate	<u>850 cfs</u>
Headwater Elevation	<u>18.70 feet</u>
Tailwater Elevation	<u>15.68</u>

DESCRIPTION OF STRUCTURE

Type:	<u>Corrugated metal pipe culvert with upstream control</u>
Number of Barrels:	<u>3</u>
Size of Barrels:	<u>84 inches</u>
Length of Barrel:	<u>80 feet</u>
Flow Line Elevation:	<u>8.0 feet</u>
Crest Elevation:	<u>27.5 feet</u>
Riser Pipes:	
Diameter of Riser:	<u>112 inches</u>
Top of Riser Elevation:	<u>23.0 feet</u>
Water Level which will by-pass structure	<u>27.5 feet.</u>
Stop Logs:	
Size:	<u>7½" X 2½" X 56"</u>

The elevation of the top of the stop logs is determined by measurement down from a reference point on the top of the header, which is at elevation 23.0. The bottom 8 logs in each bay below an elevation of about 13.0, are fixed in the structure and are normally not removable.

ACCESS: The structure is reached via about 3 miles of dirt road atop L-1 from SR 832.

HYDROLOGIC AND HYDRAULIC MEASUREMENTS

Water Level: Upstream and downstream staff gauges and remote digital recorders.