

STRUCTURE 9XN

This structure is a double-barreled, corrugated metal pipe culvert, located in the borrow pit of L-37 just north of Canal 11 (the South New River Canal) about 20 miles west of Fort Lauderdale. Control is effected by stop logs placed in a metal frame on the upstream end of the structure. The structure was rebuilt in January 2002 by the U.S. Army Corps of Engineers and the IT Corporation.

PURPOSE

This structure functions together with G-86N to control water stages between L-37 and U.S. Highway #27. Such stage control in turn reduces the seepage under Levee 37 from Conservation Area #3B.

OPERATION

Normally, the stop logs shall be set to a crest elevation of 8.0 feet. When flood conditions in the C-11 basin are not present, the stop logs may be removed when the headwater of 9.0 is exceeded at S-9XN.

FLOOD DISCHARGE CHARACTERISTICS

There is no design discharge for this structure.

DESCRIPTION OF STRUCTURE

Type:	<u>corrugated metal pipe culvert with upstream control</u>
Number of barrels:	<u>2</u>
Size of barrels:	<u>72 inch</u>
Length of barrels:	<u>84 ft.</u>
Flow line elevation:	<u>-4.8 feet</u>
Service bridge elevation:	<u>10.9 feet</u>
Water Level which will by-pass structure:	<u>10.0 feet</u>
Control:	<u>Discharge is controlled by stop logs placed in CMP riser pipes on the north end of the structure.</u>
Riser Pipes: Diameter of Pipes	<u>78"</u>
Top of Riser Elevation	<u>10.32</u>

Stop Logs: Number per culvert: 7

Size: 74½"x2½"x7½"

Reference Elevation: 10.32 feet

Approximate Crest Elevation:

Number of Boards In	Number of Boards Out	Crest Elevation (feet)	Measurements to Boards (feet)
7	0	8.1	2.3
6	1	7.4	2.9
5	2	6.8	3.5
4	3	6.2	4.1
3	4	5.6	4.8
2	5	4.9	5.4
1	6	4.3	6.0
0	7	3.7	6.6

HYDRAULIC AND HYDROLOGIC MEASUREMENTS

Water Level: Upstream and Downstream staff gauges