

CULVERT 5

This structure is a three barreled corrugated metal pipe culvert located at the mouth of Nicodemus Slough, through the LD-3 Levee.

Contract No. 88-148-0722

Drawing No. 56-028

PURPOSE

The purpose of this structure is to provide releases from Lake Okeechobee to the lower reaches of Nicodemus Slough and to afford gravity drainage of that slough into Lake Okeechobee during flood periods when the Lake is lower than the slough.

OPERATION

The structure will be operated by the District. The normal operation is a function of the level of Lake Okeechobee and the Nicodemus Slough Schedule as depicted on the accompanying charts.

If the water level on the land side of Culvert 5 is greater than the Nicodemus Slough Schedule and greater than the level on the lake side, one or more gates will be opened to lower the level of the Nicodemus Slough Schedule. If the land side level is below the schedule and below the lake side level, one gate will be opened to try to bring the level in the slough up to its schedule.

DRAINAGE AREA FLOOD DISCHARGE CHARACTERISTICS

Design Inflow Rate	<u>1621 cfs</u>
Design Storm Recurrence Interval	<u>10 years</u>

DESCRIPTION OF STRUCTURE

Type:	<u>Corrugated metal pipe culverts with Lakeside Control</u>
Number of Barrels:	<u>3</u>
Size of Barrels:	<u>120 inches</u>
Length of Barrels:	<u>160 feet</u>
Flow line elevation:	<u>5.5 feet</u>
Operating deck elevation:	<u>25.6 feet</u>
Water level which will by-pass structure:	<u>34 feet</u>

GATES

	<u>Land Side</u>	<u>Lake Side</u>
Culvert #1	None	Slide Gate with Manual Control
Culvert #2	None	Slide Gate with Manual Control
Culvert #3	None	Slide Gate with Manual Control

ACCESS: Structure is located at LD-3 crossing of SR #78.

HYDRAULIC AND HYDROLOGIC MEASUREMENTS

Water Level Recorder: Upstream and Downstream Staff Gauges and remote digital recorders

Gate Position Recorder: None

DEWATERING FACILITIES: None

Normal Power Sources: On-site Generator