

STRUCTURE S-196

This structure is a single-barreled, reinforced concrete pipe culvert, located on Canal 103 about 350 feet upstream from Richards Road. Control is effected by a manually operated sluice gate mounted on a reinforced concrete head structure.

PURPOSE

This structure is installed as a drainage divide structure and as a control for stages to the west. It is sized to permit limited runoff to the east when capacity is available. It also provides water supply when needed and available.

OPERATING CRITERIA

Based on IOP, the structure is operated according to its headwater stage:

No WCA-3A Regulatory Releases to SDCS or Shark Slough	WCA-3A Regulatory Releases to SDCS
Open 5.5	Open 4.9
Close 4.8	Close 4.5

FLOOD DISCHARGE CHARACTERISTICS

	Design
Discharge Rate	<u>200</u> cfs
	<u>40</u> % SPF
Headwater Elevation	<u>6.5</u> feet
Tailwater Elevation	<u>5.5</u> feet
Type Discharge	uncontrolled <u>submerged</u>

DESCRIPTION OF STRUCTURE

Type	<u>Reinforced concrete pipe culvert with upstream control structure</u>
Number of barrels	<u>1</u>
Size of barrel	<u>84 inches</u>
Length of barrel	<u>58 feet</u>
Flow line elevation	<u>-2.5 feet to -3.5 feet</u>
Service bridge elevation	<u>15.5 feet</u>

Water level which will by-pass structure 8.0" feet

Gates

Number 1

Type sluice gate

Size 84" X 84"

Control manual

Lifting Mechanism

Type pedestal mounted, hand wheel and screw stem lift

Date of Transfer: August 25, 1967

ACCESS: from Richards Road via access road on south side of C-103

HYDRAULIC AND HYDROLOGIC MEASUREMENTS

Water Level staff gauges only

Gate Position Recorder None

DEWATERING FACILITIES (per barrel) None