

C-23 PLUG STRUCTURE

G-78

This structure is a single-barreled, corrugated metal pipe culvert located at C-23, about 15 miles southwest of Fort Pierce. Control is effected by flashboards mounted on a riser pipe at the south end of the culvert.

PURPOSE

This structure acts as a drainage divide structure of C-23 between the north and south sides of the structure.

OPERATION

This structure is normally closed, but it adds flexibility to the system by allowing transfer of water from C-23 to C-24 when the western portion of the C-23 basin is well in excess of optimum and the C-24 basin has capacity to spare. It is also used during dry periods when the C-23 basin has ample water and the C-24 and/or C-25 basins are deficient.

FLOOD DISCHARGE CHARACTERISTICS

This structure is designed to pass flood flows only if canal capacity is available.

DESCRIPTION OF STRUCTURE

Type: Corrugated metal pipe with gate control at south end

Number of Barrels: 1

Size of Barrel: 72 inches

Length of Barrel: 50 feet

Flow Line of Elevation: 17.0 feet

Service Bridge Elevation: 34.5 feet

Riser Width: 8 feet

Gates:

Number: Two Upper gates and two lower gates

Size: Upper gate 5 feet (H) x 4 feet (W)
Lower gate 5 feet (H) x 4 feet (W)

Reference Elevation: 34.5 feet

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ACCESS: From a point on S.R. 70 about 12 miles west of Fort Pierce, turn south at Carlton Road and then turn west at Germany Canal Road to C-23 Canal.

HYDROLOGIC AND HYDRAULIC MEASUREMENTS

Water Level: Staff gauge at north end

Gate Position Recorder: None

DEWATERING FACILITIES: None