

**POWERLINE ROAD CROSSING
OLD POMPANO CANAL**

G-65

This structure is a single-barreled reinforced concrete pipe culvert in the Old Pompano Canal crossing of Powerline Road in the City of Pompano Beach. Control is effected by a slide gate on the upstream (west) end of the culvert.

PURPOSE

This structure serves to divert the flow from the new C-14 alignment into the Old Pompano Canal. At the same time, it permits releases to be made during the dry season into the old channel to recharge the Pompano City wellfield.

OPERATION

This structure is opened only to maintain one optimum 4.5 foot headwater stage at the Pompano City locks (G-57).

FLOOD DISCHARGE CHARACTERISTICS

This structure is not designed for flood discharge. Flood flows are diverted through C-14 and S-37B and S-37A to tidewater.

DESCRIPTION OF STRUCTURE

Type: reinforced concrete pipe culvert with upstream control

Number of Barrels: 1

Size of Barrel: 54 inch

Length of Barrel: 1500 feet

Flow Line Elevation: 0.0 feet

Operating Deck Elevation: 8 feet

Water level which will by-pass structure: 14.6 feet

Control Structure: Discharge is controlled by a gate mounted on a reinforced concrete headwall.

Gate:

Number: 1

Size: 60 inch square

Control: Manual

Lifting Mechanism: Manual with hand built gear actuator

Type: Armco model 05-00

ACCESS: Structure located at Atlantic Boulevard and 27th Avenue, south of Powerline Road

HYDRAULIC AND HYDROLOGIC MEASUREMENTS: None

DEWATERING FACILITIES None