

STRUCTURE G-333 (A-E)

Structures G-333 A-E are a series of five gated culverts that serve as the inflow control structures for Treatment Cell 3 of STA-2. Culverts G-333 A-E each consist of a 66- inch (66") diameter corrugated metal pipe with a 11-foot x 11-foot headwall fitted with a 66" x 66" slide gate and service platform on its upstream end, and a flared end section on its downstream end.

These structures are located in Palm Beach County and situated generally on and surrounding the former Brown's Farm Wildlife Management Area and is positioned immediately west of Water Conservation Area 2A.

PURPOSE

G-333 A-E provide inflow to Cell 3 from the Inflow Canal of STA-2. Flows will travel in a southward direction through the Treatment Cell and eventually discharge to the Discharge Canal of the Treatment Cell.

OPERATION

G-333 A-E can be operated manually or remotely via telemetry from the District's Operations Control Center in West Palm Beach.

FLOOD DISCHARGE CHARACTERISTICS

	Design
Discharge Rate:	220 cfs per structure (1099 cfs total)
Headwater Elevation:	15.89 ft. NGVD
Tailwater Elevation:	13.60 ft. NGVD
Type Discharge:	controlled submerged

* Design not related to Standard Project Flood

DESCRIPTION OF STRUCTURE

Type: Reinforced concrete box culverts with upstream control

Number of barrels: 1

Size of barrels: 66" X 66"

Length of barrels: 75" feet each

Invert elevation (flow line): 6.0 ft. NGVD

Service bridge elevation: 19.0 ft. NGVD

Water level which will by-pass structure: 15 ft. NGVD

Gates:

Number: 1

Type: Hydraflow Model 14-12

Size: 6.75' X 6.75'

Control: Manual

Lifting Mechanism: - Type hoist, pedestal mounted, screw type, hand wheel operated or telemetry

Date Acceptance into Service: June, 1999

ACCESS: Access to G-333 A-E is from S-6 along the East levee of the Supply Canal. The structures are located between S-6 and S-7.

HYDRAULIC AND HYDROLOGIC MEASUREMENTS

Water Level: Remote digital upstream and downstream recorder at G-333C

Gate Position Recorder: Remote digital recorders at G-333 (A through E).

DEWATERING FACILITIES (per gate): None