G-89 CULVERT
(L-3/L-28)

This structure is a three-barreled, corrugated metal pipe culvert, located at the northwest corner of Conservation Area 3A. Control is effected by stop logs in a CMP riser pipe. Contract Number C89-0144. Drawing Number S-5A-6

PURPOSE

The L-1/L-2/L-3 borrow canal terminates at this structure which, with G-88 and G-155, determines how flows in that borrow canal will be discharged.

OPERATION

This structure is normally closed with stop log crest at 16.0. It may be opened, however, at that time when irrigation requirements need to be met west of Conservation Area 3A. The structure is designed to resist buoyance with headwater at elevation 15.0 and tailwater at elevation 9.0.

FLOOD DISCHARGE CHARACTERISTICS

There is no design discharge for this structure.

DESCRIPTION OF STRUCTURE

Type: Corrugated metal pipe culverts with upstream (north) control.

Number of barrels: 3

Size of Barrels (#1 barrel is on the north end of the structure):

72 inch

Length of barrels: 60 feet

Flow line elevation: 8.03 feet (as built drawing)

7.85 feet (new datum 7/92)

Diameter of Riser: 96 inches

Top of Riser (Reference Point) 18.30 feet (as built drawing)

17.85 feet (new datum 7/92)

Water level which will by-pass structure 19.0 feet.

Control: Discharge is controlled by stop logs placed in a CMP riser pipe on the east end of the structure.

Stop Logs:

Size: 7½" X 2½" X 48"

ACCESS: From S-8 via dirt road on top of L-4.

HYDRAULIC AND HYDROLOGY MEASUREMENTS:

Water Level Remote digital headwater and tailwater recorder