

DRAFT

**S-528B
Gated Round Culverts**

Revision 5 January 2001 - Original Submission

XY Coord 896080 733200

Location On internal levee between H1 and H2. South of S-528A.

Purpose Equalizes water surface elevation for H1 and H2 impoundments.

Notes 1. Riprap requirements have not been verified with Geotech.

Design Conditions

Discharge (CFS)	300 cfs
Headwater Elevation	14.45 ft,NGVD
Tailwater Elevation	13.50 ft,NGVD

Maximum Expected Stages

Headwater Elevation	19.00 ft,NGVD
Tailwater Elevation	19.00 ft,NGVD

Maximum Head Difference

Maximum Headwater Elevation	16.00 ft,NGVD
Minimum Tailwater Elevation	10.00 ft,NGVD

Culvert Data

Number of Barrels	2
Barrel Type	Concrete
Barrel Diameter	6.0 feet
Barrel Length	85.0 feet
Barrel Invert Elevation	7.00 ft, NGVD
Type of Control	Slide Gate

Canal Data

Side Slopes Cotangent	3
Upstream Bottom Width	Pool feet
Upstream Bottom Elevation	5.00 ft,NGVD
Downstream Bottom Width	Pool feet
Downstream Bottom Elevation	5.00 ft,NGVD

Riprap Requirements

Design Barrel Velocity	5.31 fps
Design Riprap Velocity	8.00 fps
Riprap Protected Area	1,600 sq-ft
Riprap Thickness	2.00 feet
Riprap Bedding Thickness	1.00 feet

Control Protection Elevation 20.00 ft,NGVD