

DRAFT

S-504A
Ungated Conspan Culverts

Revision 30 September 2000 - Original Submission

XY Coord 842005 630025

Location Southwest corner of C-11 impoundment, north of Truck Stop.

Purpose Convey deliveries to C-9 Impoundment and NLBSA from C-11 Impoundment.

Notes 1. Requires tunneling under US-27, 4-lane divided highway.
2. Riprap requirements have not been verified with Geotech.

Design Conditions

Discharge (CFS)	2,500 cfs
Headwater Elevation	7.63 ft,NGVD
Tailwater Elevation	7.00 ft,NGVD

Maximum Expected Stages

Headwater Elevation	9.00 ft,NGVD
Tailwater Elevation	9.00 ft,NGVD

Maximum Head Difference

Maximum Headwater Elevation	7.10 ft,NGVD
Minimum Tailwater Elevation	6.10 ft,NGVD

Culvert Data

Number of Barrels	4
Barrel Type	Conspan
Single Conspan Culvert Width	16.0 ft
Single Conspan Culvert Height	10.0 ft
Conspan Length	465.0 ft
Conspan Invert Elevation	-6.50 ft, NGVD
Type of Control	None

Canal Section

Side Slopes Cotangent	1
Upstream Bottom Width	Pool feet
Upstream Bottom Elevation	-8.00 ft,NGVD
Downstream Bottom Width	120.00 feet
Downstream Bottom Elevation	-9.00 ft,NGVD

Riprap Requirements

Design Barrel Velocity	3.91 fps
Design Riprap Velocity	6.00 fps
Riprap Protected Area	2,000 sq-ft
Riprap Thickness	1.5 feet
Riprap Bedding Thickness	1.0 ft,NGVD

Control Protection Elevation 10.00 ft,NGVD