CULVERT ANALYSIS

PID : 110922 **Date :** 10/14/2021 **Project :** DEL-605-0.31 **Location :** SR 605 at Fancher Rd

Description : 18" TYPE B (D4) ANALYSIS **Designer :** FTA

HEADWATER CONTROL CODES:

INLET - Inlet Control.
OUTLET - Outlet Control.
OUTLET* - Outlet Control with backwater curve used to compute headwater. See Figure III - 7E in HDS 5 for type flow.
OUTLET** - Outlet Control - See Figure III - 7D in HDS 5 for type flow.
N/A - Flow is supercritical with low headwater and low tailwater. Control Section is at the inlet.

Pipe Number : 1 **Use HW :** 1 **Inlet Invert Elevation (ft.) :** 1036.02 **Outlet Invert Elevation (ft.) :** 1035.29

Pipe Quantity : 1

Culvert Type : Circular Smooth **Pipe Length (ft.) :** 72.00 **Culvert Slope (ft./ft.) :** 0.0101

Corrugation Type :

Pipe Size : 18 in.

Design Manning 'n' : 0.0150

Entrance Type : Half Headwall **Loss Coef. Ke :** 0.2000

FLOW (cfs.)	HEAD LOSS (ft.)	HWI (ft.)	HWO (ft.)	FLOW TYPE	VELOCITY (fps.)	DN (ft.)	DC (ft.)	MANNING N	HEADWATER CONTROL	BURIED DEPTH (ft.)	TAILWATER ELEVATION (ft.)
3.94	0.69	1037.11	N/A	1 - C	4.99	0.69	0.76	0.0150	INLET	0.00	1035.58