



# CULVERT ANALYSIS

**PID :** 116570      **Date :** 10/13/2025      **Project :** ERI-6

**Location :** Perkins RAB

**Description :** HW612-HW613 STA. 686+77

**Designer :** BLC

**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 :** 610

**Use HW :** 0

**Inlet Invert Elevation (ft.) :** 579.48

**Outlet Invert Elevation (ft.) :** 578.81

**Pipe Quantity :** 1

**Culvert Type :** Circular Smooth

**Pipe Length (ft.) :** 45.00

**Culvert Slope (ft./ft.) :** 0.0149

**Corrugation Type :**

**Pipe Size :** 12 in.

**Design Manning 'n' :** (default)

**Entrance Type :** Half Headwall

**Loss Coef. Ke :** 0.2000

| FLOW<br>(cfs.) | HEAD<br>LOSS<br>(ft.) | HWI<br>(ft.) | HWO<br>(ft.) | FLOW<br>TYPE | VELOCITY<br>(fps.) | DN<br>(ft.) | DC<br>(ft.) | MANNING<br>N | HEADWATER<br>CONTROL | BURIED<br>DEPTH<br>(ft.) | TAILWATER<br>ELEVATION<br>(ft.) |
|----------------|-----------------------|--------------|--------------|--------------|--------------------|-------------|-------------|--------------|----------------------|--------------------------|---------------------------------|
| 0.89           | 0.53                  | 580.03       | N/A          | 1 - C        | 4.62               | 0.29        | 0.40        | 0.0120       | INLET                | 0.00                     | 578.81                          |
| 1.07           | 0.57                  | 580.10       | N/A          | 1 - C        | 4.87               | 0.32        | 0.43        | 0.0120       | INLET                | 0.00                     | 578.81                          |