



# CULVERT ANALYSIS

**PID :** 122339      **Date :** 12/19/2024      **Project :** ATB/TRU-CULVERTS-FY26      **Location :** TRU-193-23.897

**Description :** Proposed Culvert Design - Arch

**Designer :** MEP

**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.

<b>Pipe Number :</b> 1	<b>Use HW :</b> 0	<b>Inlet Invert Elevation (ft.) :</b> 1063.80	<b>Outlet Invert Elevation (ft.) :</b> 1062.70
<b>Pipe Quantity :</b> 1			
<b>Culvert Type :</b> Pipe Arch		<b>Pipe Length (ft.) :</b> 40.00	<b>Culvert Slope (ft./ft.) :</b> 0.0275
<b>Corrugation Type :</b> Corrugated Metal Arch Pipe (2 2/3 x 1/2 in. corrugations)			
<b>Pipe Size :</b> 77 x 52 in.			
<b>Design Manning 'n' :</b> (default)			
<b>Entrance Type :</b> Full Headwall		<b>Loss Coef. Ke :</b> 0.2500	

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.)
110.00	1.53	1067.53	N/A	1 - C	11.05	1.70	2.28	0.0231	INLET	0.00	1062.70
136.50	1.99	1068.15	N/A	1 - C	11.83	1.96	2.59	0.0231	INLET	0.00	1062.70
163.00	2.51	1068.82	N/A	1 - C	12.46	2.22	2.87	0.0231	INLET	0.00	1062.70
189.50	3.14	1069.57	1068.42	2 - E	12.99	2.48	3.13	0.0231	INLET	0.00	1062.70
216.00	3.89	1070.43	1069.13	2 - E	13.42	2.75	3.35	0.0231	INLET	0.00	1062.70