



CULVERT ANALYSIS

PID : 122339 **Date :** 12/13/2024 **Project :** ATB/TRU-CULVERTS-FY26 **Location :** ATB-193-11.140

Description : Proposed Culvert Design - Elliptical

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.

Pipe Number : 1 **Use HW :** 0 **Inlet Invert Elevation (ft.) :** 966.30 **Outlet Invert Elevation (ft.) :** 966.00
Pipe Quantity : 1
Culvert Type : Elliptical **Pipe Length (ft.) :** 40.00 **Culvert Slope (ft./ft.) :** 0.0075
Corrugation Type :
Pipe Size : 48 x 76 in.
Design Manning 'n' : (default)
Entrance Type : Full 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.)
101.00	0.51	969.70	N/A	1 - C	11.51	1.76	2.36	0.0120	INLET	0.00	966.50
111.00	0.67	969.91	N/A	1 - C	11.85	1.86	2.49	0.0120	INLET	0.00	966.50
121.00	0.82	970.12	N/A	1 - C	12.15	1.95	2.61	0.0120	INLET	0.00	966.50
131.00	0.98	970.34	N/A	1 - C	12.43	2.04	2.72	0.0120	INLET	0.00	966.50
141.00	1.14	970.56	N/A	1 - C	12.69	2.13	2.83	0.0120	INLET	0.00	966.50
151.00	1.32	970.78	N/A	1 - C	12.94	2.22	2.93	0.0120	INLET	0.00	966.50
161.00	1.50	971.01	N/A	1 - C	13.16	2.31	3.03	0.0120	INLET	0.00	966.50
171.00	1.69	971.25	971.00	2 - E	13.38	2.40	3.12	0.0120	INLET	0.00	966.50



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181.00	1.89	971.50	971.21	2 - E	13.58	2.49	3.21	0.0120	INLET	0.00	966.50
191.00	2.11	971.75	971.44	2 - E	13.77	2.58	3.30	0.0120	INLET	0.00	966.50