



CULVERT ANALYSIS

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

Description : Proposed Culvert Design - Box

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 : Box		Pipe Length (ft.) : 40.00	Culvert Slope (ft./ft.) : 0.0075
Corrugation Type :			
Pipe Size : 6.0 x 4.0 ft.			
Design Manning 'n' : (default)			
Entrance Type : 90 and 15 degrees Wingwalls		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	0.76	969.79	N/A	1 - C	10.88	1.55	2.07	0.0120	INLET	0.00	966.50
111.00	0.91	970.01	N/A	1 - C	11.19	1.65	2.20	0.0120	INLET	0.00	966.50
121.00	1.06	970.23	N/A	1 - C	11.48	1.76	2.33	0.0120	INLET	0.00	966.50
131.00	1.23	970.46	N/A	1 - C	11.75	1.86	2.46	0.0120	INLET	0.00	966.50
141.00	1.43	970.72	N/A	1 - C	12.00	1.96	2.58	0.0120	INLET	0.00	966.50
151.00	1.64	970.99	N/A	1 - C	12.24	2.06	2.70	0.0120	INLET	0.00	966.50
161.00	1.84	971.25	970.34	2 - E	12.46	2.15	2.82	0.0120	INLET	0.00	966.50
171.00	2.05	971.51	970.52	2 - E	12.67	2.25	2.93	0.0120	INLET	0.00	966.50



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181.00	2.26	971.78	970.70	2 - E	12.88	2.34	3.05	0.0120	INLET	0.00	966.50
191.00	2.46	972.04	970.89	2 - E	13.07	2.44	3.16	0.0120	INLET	0.00	966.50