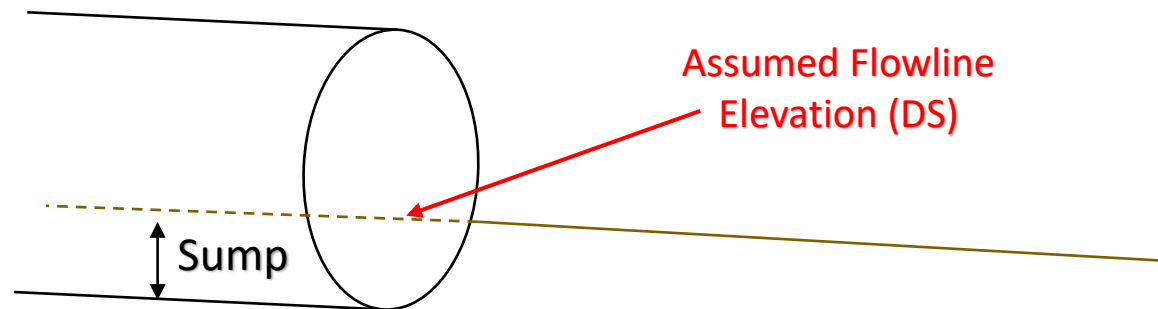
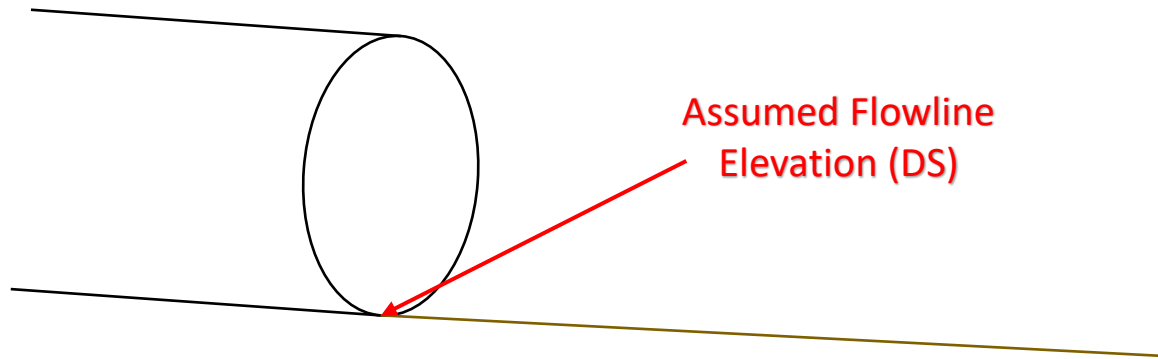


Round Pipe with Typical DS Flowline



Assumed flowline is the elevation of the flowline above the outlet invert.

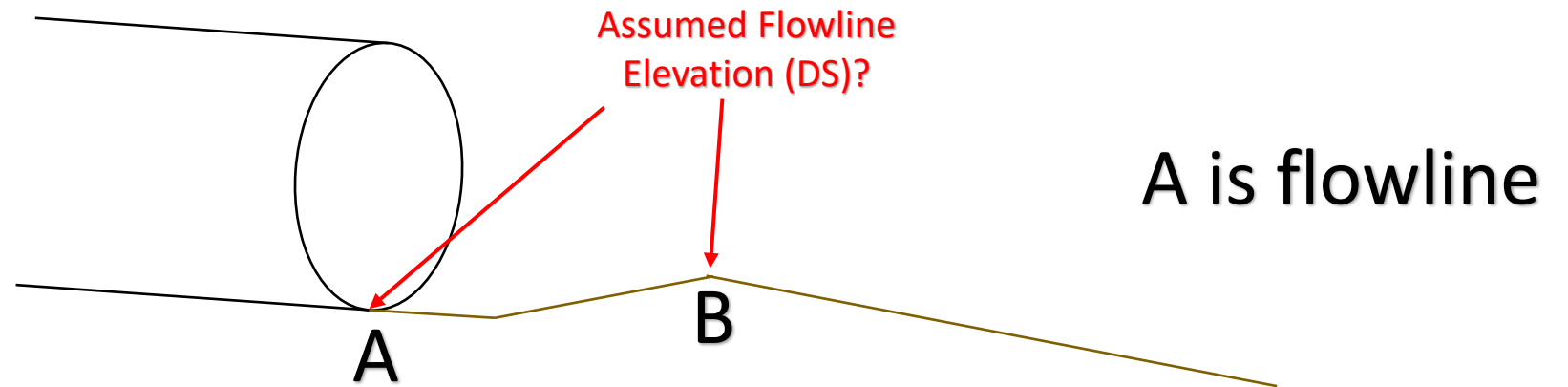
Culvert Properties			
Parameter	Existing		Proposal 1
Structure Size & Type			
Q ₁₀₀ (1% AEP) Headwater Elevation		ft.	ft.
QChoose an item. (Choose an item.) Headwater Elevation		ft.	ft.
Meets Roadway Serviceability @ QChoose an item. (Choose an item.)	Choose an item.		Choose an item.
Backwater		ft.	ft.
Minimal Low Structure Elevation (DS)		ft.	ft.
Assumed Flowline Elevation (DS)		ft.	ft.
Sump Depth		in.	in.

Round Pipe w/ Higher DS channel

*not due to a scour hole

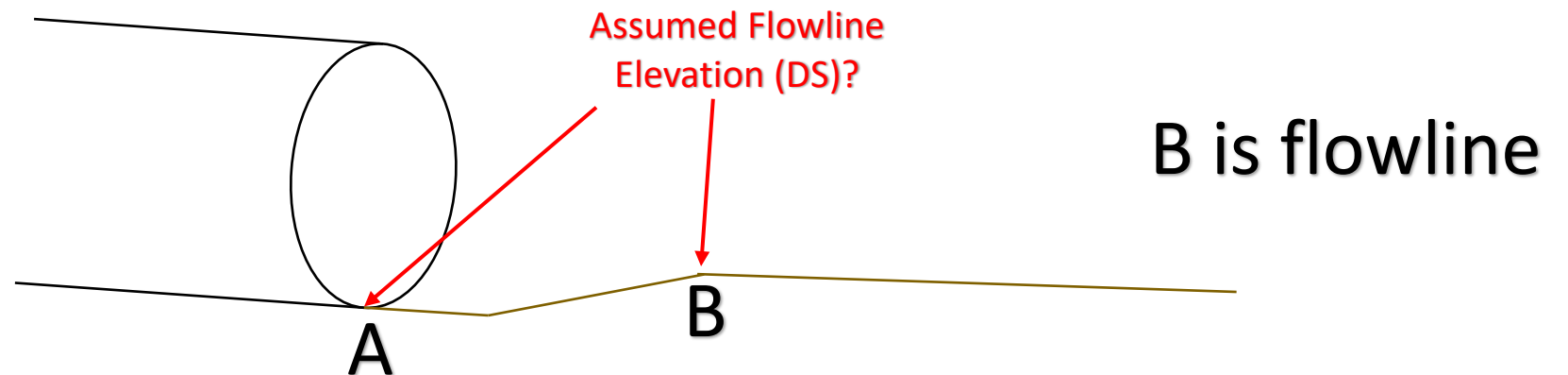
More common scenario.

B is sediment buildup and not representative of the natural channel.

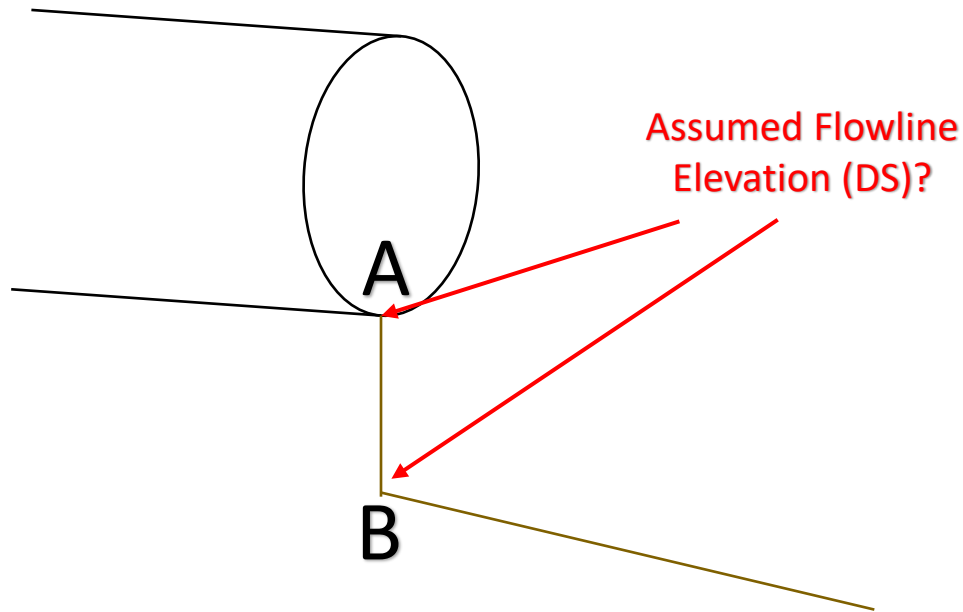


This is an uncommon scenario.

Could be seen around farm fields that are higher than the outlet of the structure.

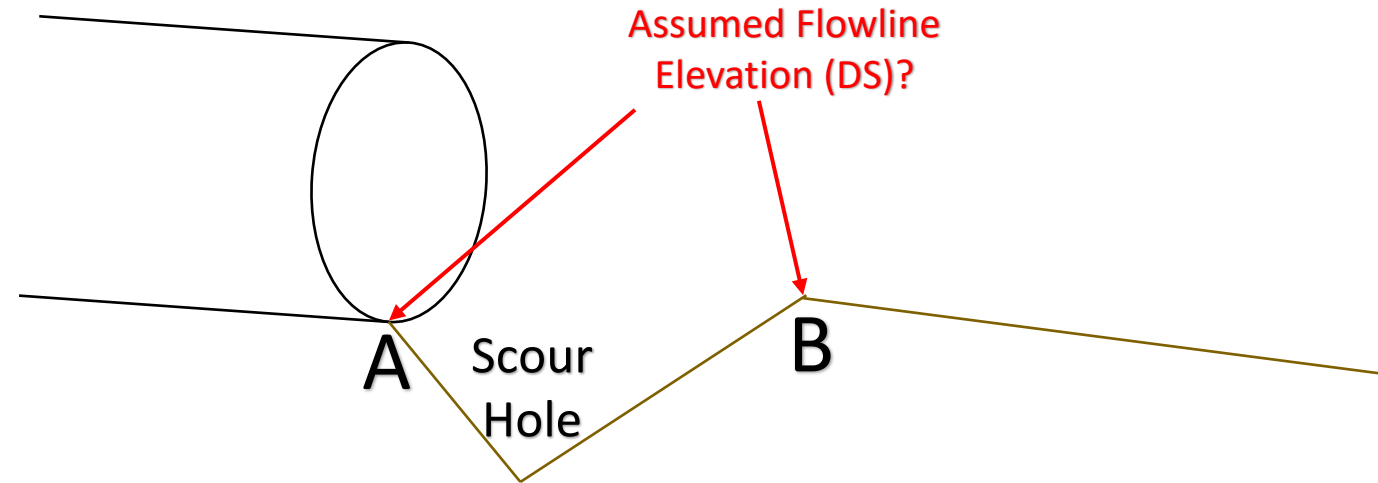


Round Pipe w/ Lower DS channel



B is the flowline

The narrative of the memo should note the drop between the invert of the pipe and the flowline.



A is the flowline

Scour hole and sedimentation (point B) are not representative of natural channel.