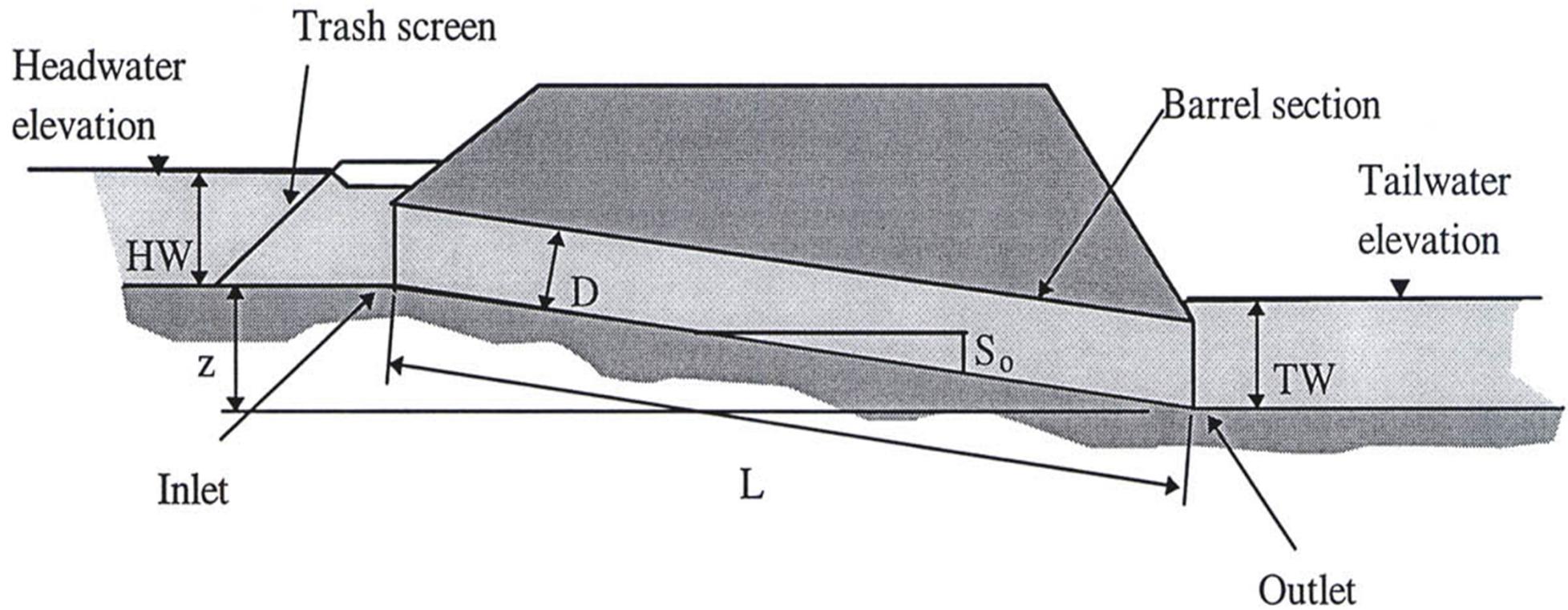




Introduction to culverts

Steven Wade, HR Wallingford

Main features of a culvert



Step 0:

Don't use a culvert!

Would you culvert this stream?



Or this one?



Step 1:

Make it big enough!

$Q + 20\%$?

Six steps to good culvert design



Step 2:

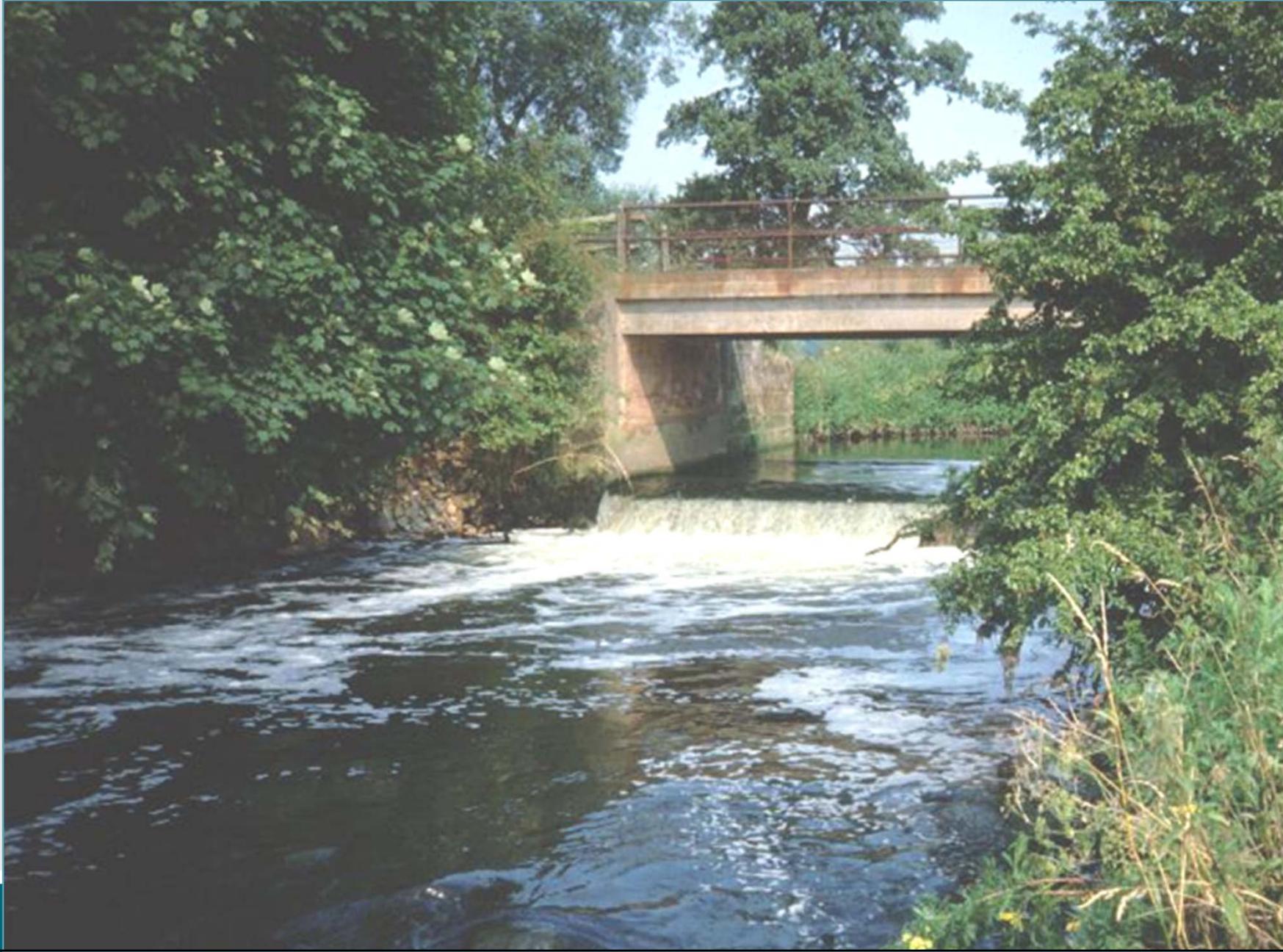
No trash screen, unless essential



Step 3:

Set invert low,
but not too low

Six steps to good culvert design



Step 4:

No bends, steps,
or changes of
cross section

Step 5:

Design for low flows, as
well as high flows

Step 6: Consider:

- > Materials
- > Construction method
- > Operation
- > Maintenance
- > Environment
- > Wildlife
- > Safety
- > Cost



Any questions?

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