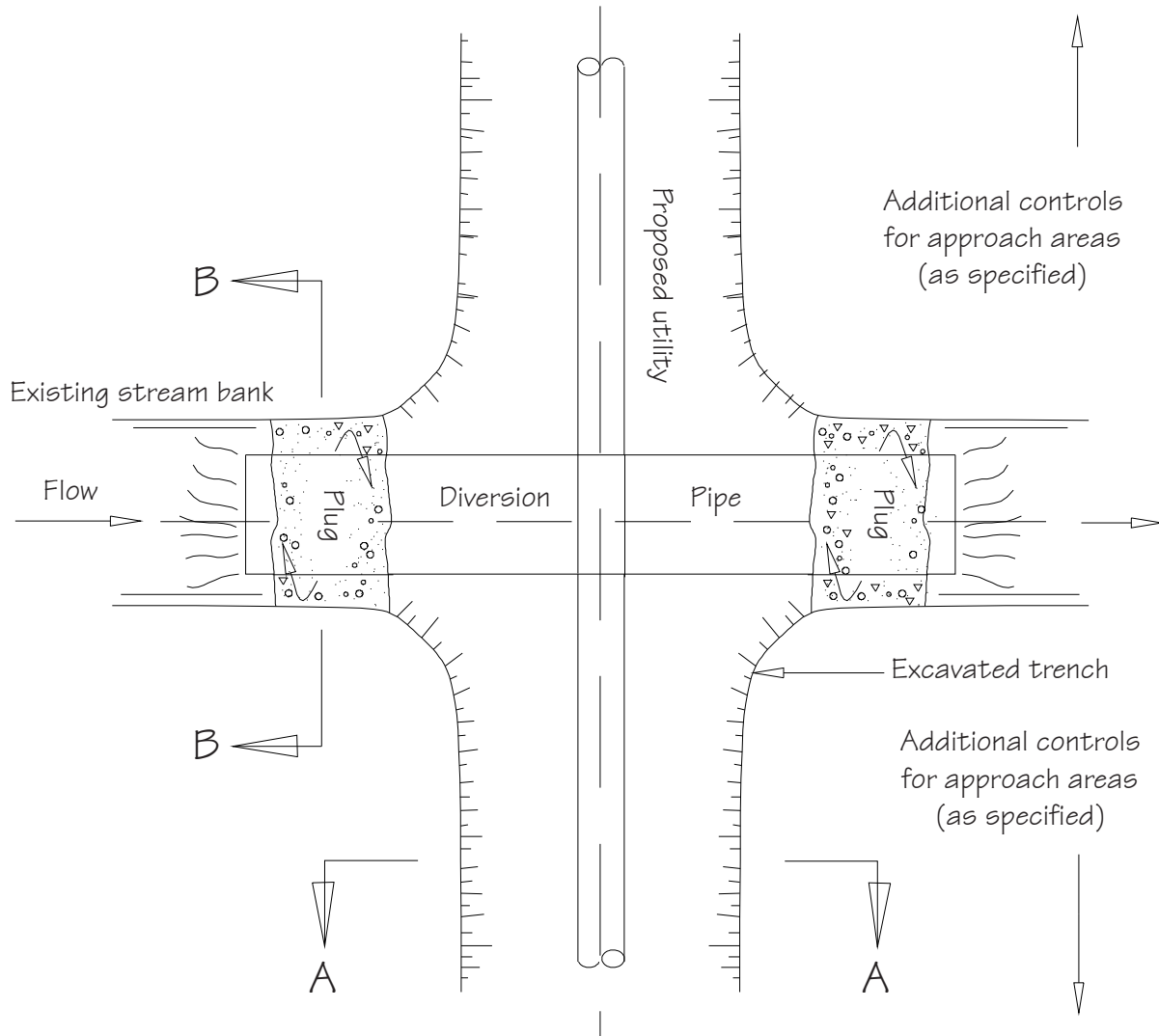


Standard Detail & Specifications

Utility Crossing Diversion Pipe



DATA

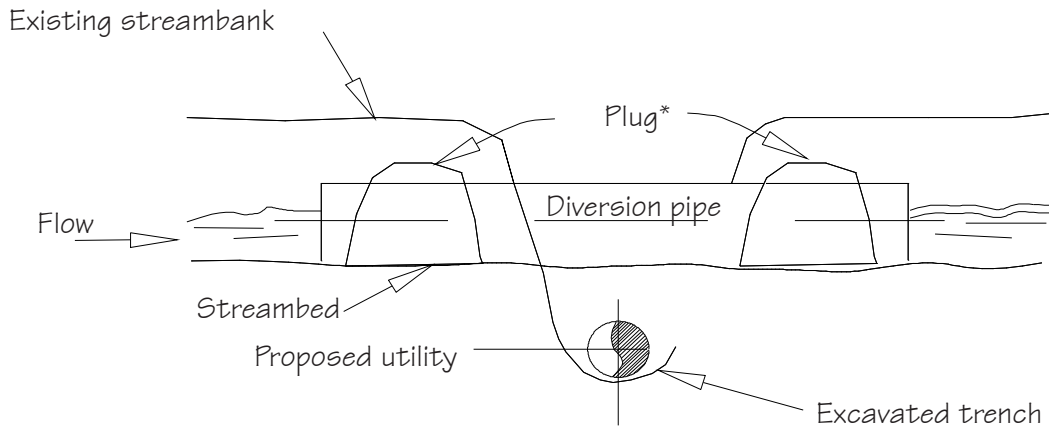
- Diversion pipe diameter (D)
- Plug material
- Impermeable material
- Dewatering practice

Plan

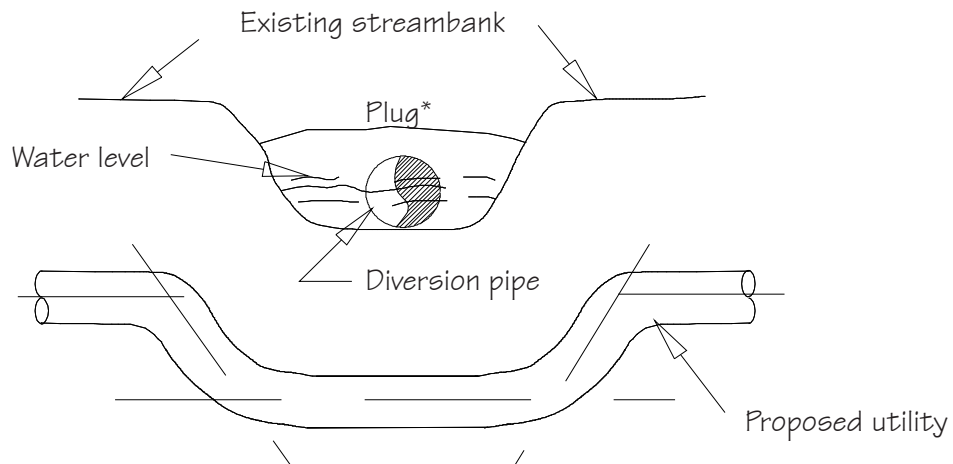
<p>Source:</p> <p>Adapted from VA ESC Handbook</p>	<p>Symbol:</p> <div style="border: 2px solid black; padding: 5px; display: inline-block; margin: 10px;"> <p>DP</p> </div>	<p>Detail No.</p> <p>DE-ESC-3.5.2.1 Sheet 1 of 3 Effective July 2023</p>
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Standard Detail & Specifications

Utility Crossing Diversion Pipe



Section A-A



Section B-B

*NOTE: Plug shall consist of coarse aggregate, riprap, sandbags or other material capable of resisting expected flows. Upstream plug shall be made waterproof using Type GS-1 geotextile or other means, as specified.

Source:

Adapted from
VA ESC Handbook

Symbol:



Detail No.

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Standard Detail & Specifications

Utility Crossing Diversion Pipe

Construction Notes:

1. Pipe diversion shall be operational prior to start of in-stream construction.
2. Controls for approach areas shall be provided in accordance with the approved plan.
3. All materials used must be adequate to withstand expected hydraulic and equipment loads.
4. Pipe shall be of adequate size to convey the normal water channel flow and shall be installed in the stream bed across the proposed utility trench centerline.
5. Impervious plug shall be placed near each end of pipe so as to dam off the channel flow and force it into the diversion pipe.
6. Water trapped between the plugs shall be pumped to an approved dewatering practice prior to excavation of the utility trench.
7. Once the diversion pipe has been made operational and checked for water tightness, excavation of the utility trench may begin. Installation of the utility shall proceed in a timely manner so as to minimize in-stream construction.
8. Once the utility has been installed, trench shall be backfilled and stabilized in accordance with the approved plan.
9. Diversion pipe shall remain in-place until stream bed and banks have been stabilized.

This practice limited to streams less than 10' wide; in-stream construction periods shall be less than 72 hours.

Source:

Adapted from
VA ESC Handbook

Symbol:



Detail No.

DE-ESC-3.5.2.1
Sheet 3 of 3

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