

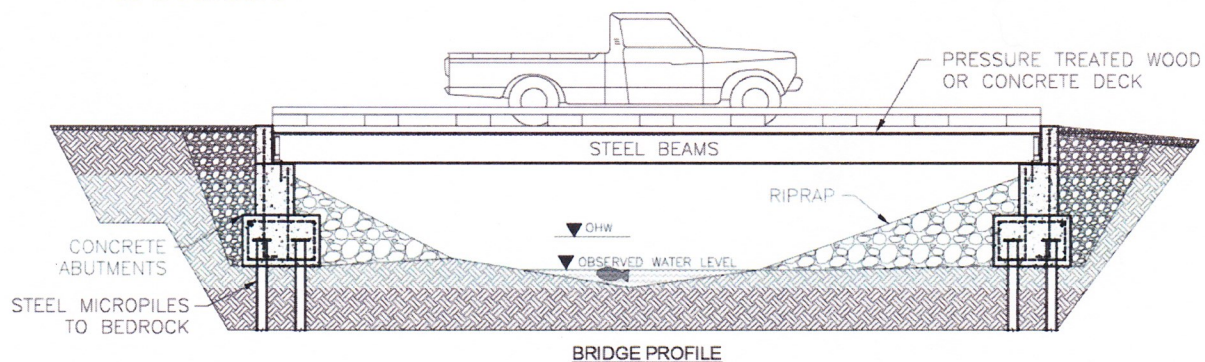
RESILIENT BRIDGE DESIGN

RESILIENT DESIGN PRINCIPLES FOR THE REBUILDING OF PRIVATE WATER CROSSINGS DESTROYED BY FLOODS

(Over 140 built in WV, VA, KY, & NC flood response by MDS volunteers and WVVOAD)



1. Bridge structure spanning from bank to bank.
2. Locate abutments outside stream channel to avoid impeding the natural flow of the water and to minimize the likelihood of abutments being damaged by erosion and scour.
3. Locate bridge structure entirely outside of and above the Ordinary High Water (OHW) level and provide superior stream hydraulics to the previously existing structure.
4. Support abutment foundations directly on bedrock or on micropiles driven to bedrock.



For more information contact either:

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