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2.3 Basic Hydraulic Requirements The hydraulic features of a bridge water crossing should satisfy the following general requirements: ? suitable location and alignment from the perspectives of river characteristics, traffic and the environment; ? capability to pass the design discharge, and to withstand correspondingly severe ice or debris conditions and inflows if applicable, without compromising the serviceability and structural integrity of the bridge or adversely affecting the environment.

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In the case of a bridge spanning the entire natural waterway, the main hydraulic considerations are scour, ice action, and wave action. Where the bed of the inlet is erodible, soundings should be made under various tidal and wave conditions to ensure that the foundations are designed to suit the worst natural scour levels.

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