Effects of seasonal freezing on bridge column-foundation-soil interaction and their implications

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Effect of environmental conditions on selection of foundation types for bridges over water such as ship collision, floating ice, earthquakes are discussed. Environmental factors that affect the selection of over water foundation types and their construction methods are discussed below: Exposure conditions and water depths. Sea or river current. It is recommended to use circular column because seismic forces do not have particular direction and it can be in any direction. Another problem is the liquefaction of loose to medium dense soil due to ground shaking. Read More: How to Protect Foundation Structures from Soils and Groundwater Attacks? Planning for Bridge Construction including Sequence and Steps of Planning.