

# Methods for blocking bridges and building tunnels

The results show that during the construction process of the double-line tunnel, the tunnel constructed first has a "blocking effect" on the tunnel constructed later, which affects the ...

The present invention relates to a tunnel entry blocking system and method, and more particularly, to a tunnel entry blocking system and method configured to prepare for a fire in a...

In many cases the use of pipe jacking techniques instead of open trenching will contribute positively towards workplace safety, the interface with the general public, and the local and wider environment.

**SUMMARY** Obstacles other than minefields span the spectrum from a simple log hurdle to a very complicated and precise bridge demolition. Methods, materials, and equipment span the same ...

To use the cut-and-cover method, dig out a trench where you'd like your tunnel to be. Make your tunnel walls, lay them down, and cover the area back up again. Dredge an underwater ...

Creating a physically impermeable cut-off wall or barrier around the perimeter of the excavation to keep groundwater out is one of the most widely used exclusion methods. The cut-off ...

Modern methods typically alternate between Tunnel Boring Machines (TBM) and conventional excavation, each selected according to geology, project scale, and operational constraints.

Both the "tributary area method" and the "hinge method" as outlined in LRFD-BDS Article C11.9.5.1 are considered acceptable design procedures to determine the horizontal anchor design force.

To use the cut-and-cover method, dig out a trench where you'd like your tunnel to be. Make your tunnel walls, lay them down, and cover the area back up again. Dredge an underwater trench for submerged tunnels. Lay down tubes with walls thick enough to handle the water's pressure.

Let's dive into a range of tunneling construction methods and innovative products that are essential for the successful completion of these types of underground projects.

The recommendations presented in this report include recommendations on actions that can be taken either by bridge and tunnel owners and operators or by FHWA and other state and federal agencies ...



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