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Bracing for Earth Retention Systems | Print |

Shoring is normally braced using tiebacks, rakers or struts. These supports can be preloaded to minimize potential movements of the shoring system. A bracing system of rakers or struts restricts access and presents difficulties to the excavation, lagging and concrete phases of a project.

Tiebacks are installed by **Crown Drilling**, a member of **The Anchor Group**. We have designed and built customized drilling equipment to allow tiebacks to be installed in very difficult soil conditions without loss of ground. This quality control is extremely important as tiebacks are often drilled beneath existing buildings, utilities and streets.




A shoring system braced exclusively with struts

Tiebacks result in minimal interference to other phases of the construction however; permission to encroach on adjacent properties is required for work beyond the site property lines. It is also necessary to ensure that there are no existing utilities or structures present which may interfere with installation of the proposed tiebacks.

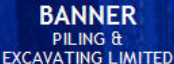
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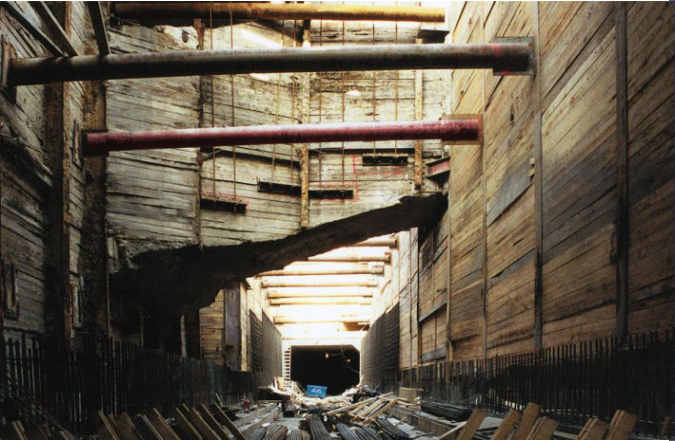
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An aerial view of a soldier pile and lagging shoring system. The left wall is braced by two rows of pipe rakers with walers. The right wall is braced by two rows of tiebacks.



A soldier pile and lagging shoring system braced by two rows of rakers.



A soldier pile and lagging shoring system braced by struts.

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