

What is the architectural design process for underground stations?

The architectural design process for underground stations is predominantly driven by technical concerns, where every aspect of design is meticulously guided by established standards and principles. A thorough examination of subway station design principles reveals a myriad of guidelines established by different countries and organizations.

How are underground stations constructed?

Underground stations will be constructed using either the "top-down" or "bottom-up" method depending on the location of the station. The top-down method sees the top slab first being constructed after which the permanent structure is constructed as the excavation progresses downwards to the base slab.

How many subway stations are underground?

Out of the system's 472 stations, 283 are underground, 149 are elevated, 20 are in open cuts, 7 are at-grade, and 13 are on embankments. A typical subway station has waiting platforms ranging from 480 to 600 feet (150 to 180 m) long.

How do designers organize underground spaces?

In addition, designers also establish a comprehensive framework for organizing underground spaces, which consist of three distinct types of spaces: passenger spaces, technical spaces, and supplementary spaces. By using this approach, it is possible to structure a predetermined subterranean area easily (Fig. 1).

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The top-down method is mainly used for the two types of urban structures; tall buildings with deep basements or underground structures for example car parks, underpasses and underground ...

This chapter is an overview of the state of the art and advanced principles in the field of ventilation and air conditioning (AC) in tunnels and underground stations.

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This work expands the conventional understanding of subway stations by introducing innovative design strategies that prioritize spatial organization, crowd management, urban context ...

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