

[Document Name] Abstract

[Abstract]

CONSTRUCTION METHOD OF UNDERGROUND STRUCTURE

[Object]

To provide a construction method of an underground structure which can handle water-retaining ground by improving the construction method of an underground structure (SFT construction method) which pushes out earth and sand of a working face portion together with a box-shaped roof at the same time as propulsion of a box body when the concrete box body is propelled after the box-shaped roof is pressed in.

[Solution]

In a construction method of an underground structure in which friction cut plates are overlapped on outer side surfaces and box-shaped roofs are assembled and disposed into a rectangular array of a lower stage, a side part, and an upper stage so as to correspond to an outer shape of a concrete box body to be propelled by being pressed into the ground together with the friction cut plates, and after the box-shaped roof is pressed into the ground, the box body is disposed by matching a distal end portion of the box body with an end portion of the box-shaped roof, and earth and sand inside the rectangular array of the box-shaped roofs are pushed out with propulsion or towing of the box body together with the rectangular array of the box-shaped roofs while leaving the friction cut plate, a water stop structure is formed by overlapping side ends of the friction cut plates.

[Selected Drawing] Fig. 1