CONSTRUCTION METHOD OF UNDERGROUND STRUCTURE

ABSTRACT

The present invention provides a construction method capable of constructing a structure in a ground by towing the structure made of a full-size precast concrete, such as in case of excavatingly advancing to construct an underground structure having a greater width in a ground under a railroad, road, or the like in a direction traversing it, which construction method is extremely high in safety, which construction method never requires large-scale facilities unlike a shield tunneling method, and which construction method never leaves a traversing site in an unstable state over a long period of time unlike an open cut method configured to form a large ditch in a ground while conducting an earth retainment in a manner to form a concrete structure by a mold in the ditch, and unlike a cast-in-place concrete method based on a temporary support by a false-work, configured to construct the false-work and excavate a ground therein to thereby form a concrete structure.

The construction method of the present invention is configured to install, into the ground, a precast concrete box having a cutting edge based on a steel-made hood attached to a front end of the concrete box, by repeating such excavation and towing that the ground at the cutting edge is excavated and the precast concrete box is towed by a PC wire which couples a towing jack to a fixing member.

Fig. 1