10. Development of the Super Mini Curve Method -Slurry Shield Micro Curve Tunneling System-

Takashi Misawa, Eiichi Hatayama, Toshiyuki Ishii, Hiroshi Wada, Osamu Tsusaka, Yoshiki Morita

Recently, the request of the curve construction increases in the small-diameter pipe jacking-method, because it is becoming increasingly difficult to acquire the place in which builds the vertical shaft. Under such conditions, Super Mini Curve was developed as the method, which added the curve construction ability to Super Mini.

The position and attitude of shield machine are measured in the combination of compact fiber optic gyroscope and the locating device utilized line of magnetic force.

At the junction of the temporary pipe, it is a method for dealing with the curve construction using flexible joint. In this paper, the outline of Super Mini Curve and the result of the real scale test are reported.

Key words: jacking method, curve, micro tunnel, Super Mini method