

GROUND IMPROVEMENT METHOD, AND SYSTEM FOR MANAGING CONSTRUCTION IN GROUND IMPROVEMENT METHOD

Abstract

A ground improvement method in which a screw rod (3) provided with a stirring blade (2) is inserted into the ground to a predetermined depth while rotating without a ground improvement material being injected, and the screw rod is extracted while the ground is stirred and mixed using the stirring blade while the screw rod is rotated and the ground improvement material is injected therefrom. The number of rotations of the stirring blade when the screw rod is inserted and the ground improvement material is not injected is included in the number of rotations of the stirring blade when the screw rod is removed and the ground improvement material is injected, and taken to be an adjusted number of blade rotations. The adjusted blade rotation number is set on the basis of the target ground improvement body strength variation coefficient, from a predefined relationship between the ground improvement body strength variation coefficient and the adjusted number of blade rotations. Ground improvement is performed using the set adjustment number of blade rotation as a construction management category. It is thereby possible to improve construction efficiency while ensuring adequate construction quality.

FIG. 10A