plurality of short cylindrical columns formed from the first level to the second level by means of a column construction machine that rotates on a horizontal plane; and a slab that is supported by the plurality of short cylindrical columns, wherein: the slab includes: a slab body formed from the third level to the fourth level by means of a vertical slab construction machine that rotates in a vertical direction; and a beam directly under the slab body, the beam being formed from the second level to the third level by means of the vertical slab construction machine, the beam being provided between a top of the plurality of short cylindrical columns and a bottom of the slab body; and the slab has a T-shape in a perpendicular cross-sectional view.

[0012a] A second aspect in accordance with the present invention provides method for constructing a ground improvement body, comprising: setting a first level, a second level, a third level, and a fourth level in order from the deepest to the shallowest within soft ground; forming a plurality of short cylindrical columns from the first level to the second level by means of a column construction machine that rotates on a horizontal plane; and forming a slab that is supported by the plurality of short cylindrical columns by means of a vertical slab construction machine that rotates in a vertical direction, wherein: the slab includes: a slab body formed from the third level to the fourth level; and a beam directly under the slab body, the beam being formed from the second level to the third level and being provided between a top of the plurality of short cylindrical columns and a bottom of the slab body; and the slab has a T-shape in a perpendicular cross-sectional view.

[0013]

Herein, the plurality of short cylindrical columns may be arranged in a lattice shape or in a zigzag in a plan view.

[0014]

Normally, banking (pavement may be included thereon.) will be laid on an upper part of the slab.

[0015]

It is preferable that a plurality of normal columns formed from the first level to the third level, tops of the plurality of normal columns supporting the slab body, are further comprised.

[0016]

Herein, the slab includes the beam being provided between the top of the plurality of short cylindrical columns; and the slab has the T-shape in the perpendicular cross-sectional view. Accordingly, when a load caused by a running vehicle or the like acts on the ground improvement body, the load is distributed to reduce applied stress to