

STORM WATER DISPERSING SYSTEM HAVING MULTIPLE ARCHES

ABSTRACT

In a system for dispersing stormwaters beneath the earth surface, a pair of arch shaped molded plastic chambers (20) lie parallel each to the other upon a bed of gravel and are covered with soil. A bridge cover (50) spans the space (36) between the sidewalls (28) of the adjacent chambers, to keep the soil above from entering. Preferably, abutting base flanges (30) establish the chamber spacing which fits the bridge cover and also protect gravel at the bottom of the space from erosion. Stormwater is preferably delivered to the space (36), to then flow through sidewall perforations (29) into the chambers' interiors where it is stored and gradually dispersed into the earth. Debris settles in the pocket (31) at the bottom of the space (36) and is removed by a perforated pipe (90) lying in the space. Chambers have high aspect ratios, of 0.8 to 1 or more, and steep sidewall angles, of less than 15 degrees.

FIG. 1