

CASE STUDY

ADS Pipe Drains, Cools & Warms Atlanta Braves' Stadium Turf

Atlanta, GA

OWNER

Atlanta Braves, Atlanta, GA

ENGINEER

The Motz Group, Cincinnati, OH

CONTRACTOR

The Motz Group, Cincinnati, OH

INSTALLATION DATE

2015

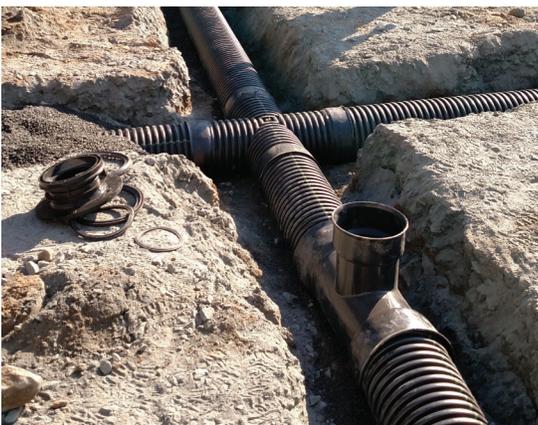
PRODUCTS

1,100' (771 m) of 10" (250 mm) Singlewall pipe
AdvanEdge® panel pipe
N-12® Dual Wall pipe

DESCRIPTION

As the Atlanta Braves were preparing to build a new stadium, the ball club turned to The Motz Group to construct the field drainage system as Motz had done at the Braves' former stadium. The requirements for the new ball park would be to remove rainfall at a high rate, reuse stormwater and distribute air to provide moderate cooling or warming to the root zone to protect the turf.

Motz did testing for pipe spacing, pipe perforation patterns, percentage of openings in the pipe and how to move the hot and cool air through the system. After all the testing was analyzed Motz came up with the AirPAT root zone management system. AirPAT captures water with gravity or a vacuum chamber to accelerate drainage and move air into the turf's root zone. At the Braves' stadium the system taps into the earth to provide the correct temperature for the turf's root system, which needed to stay above 39° F (3.8 celsius).



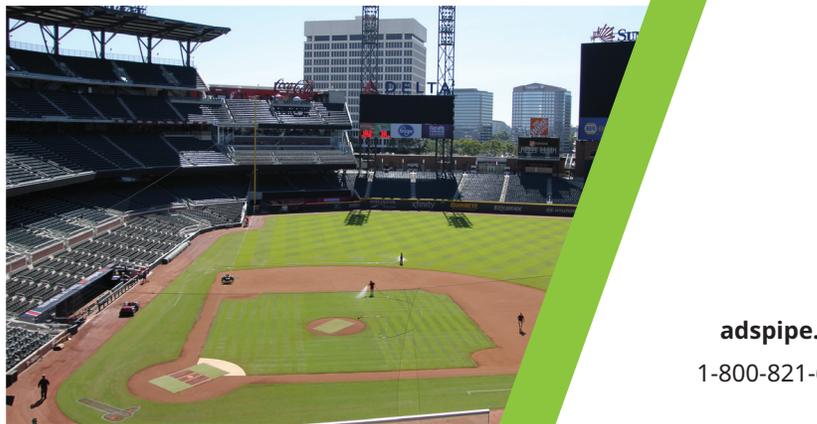
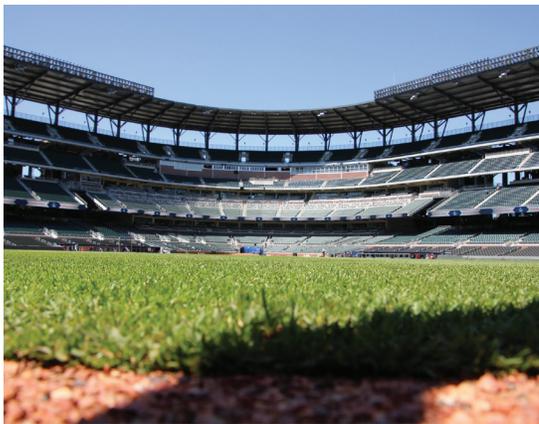
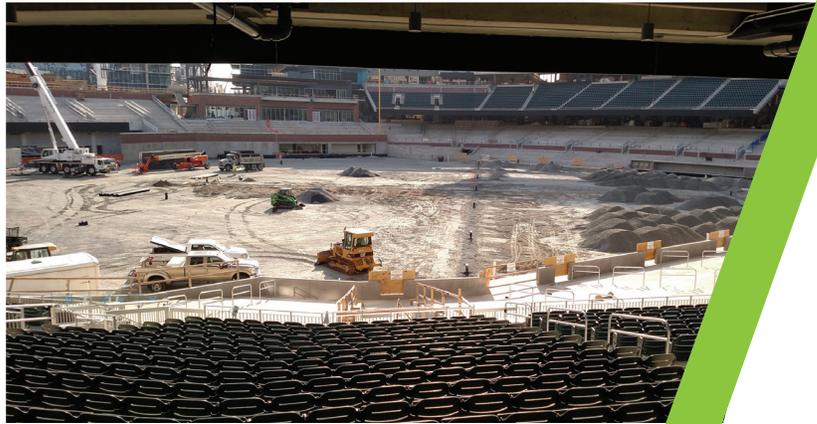
Networks of high-density polyethylene pipe would be needed. Rainwater would go into a pipe that also provides a way for the temperature controlled air to heat or cool the root zone. Another pipe would collect rainwater for field irrigation and another pipe system would be buried deeper to gather air for the geothermal system.

The geothermal systems is made up of 1,100' (335 m) of 10" (250 mm) single wall pipe in coils of 300' (91 m) to limit the number of joints. The pipe was buried from 9'-10' (2.7-3.0 m) deep on a slope so the condensation will drain. The air is then blown through AdvanEdge flat, perforated pipes into the root zone.

AdvanEdge was also used to gather rain water from the turf's surface. AdvanEdge was laid flat in order to drain water near the turf's roots. Motz tested for the best perforation pattern and hole size to be used on the AdvanEdge pipe and it is now a custom perforation that ADS does for the AirPAT system.

The stormwater drainage is 2.7"-3.5" (69-89 mm) per hour. The water percolates through the ground into the AdvanEdge and goes into a 30,000 gallon (113,562 liters) underground detention unit for reuse. An impervious liner was used at the bottom of the detention unit so all the water on the field is captured.

The stored water is filtered and can be used for field irrigation, landscape irrigation, wetting down the infield or warning track and washing equipment. The water management system is extremely sustainable, which serves the Braves well as Atlanta has a history of severe droughts.



adspipe.com

1-800-821-6710

