

# Public Works Complex Parking Expansion

## PERVIOUS PAVERS

### Project Overview

The City of Anderson Stormwater Department recently designed and installed a pervious parking lot expansion to the Public Works Complex. The pervious parking allows rainfall to flow through the pavers into the ground which helps decrease stormwater runoff.

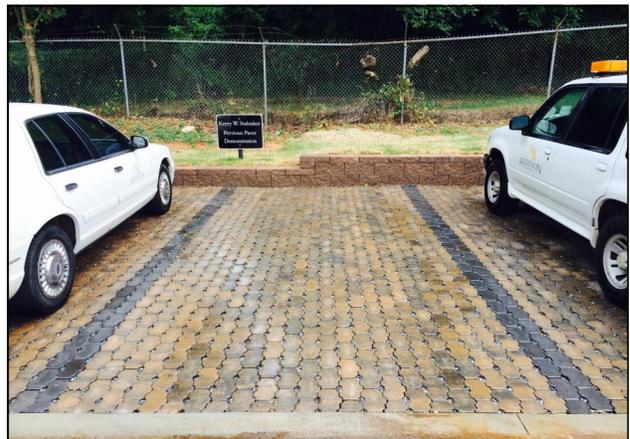
The first step towards installing this parking lot was to clean the necessary area and excavate approximately 12 inches into the ground. Filter fabric was placed along the bottom of the area to aid in infiltration. Then, a perforated pipe was installed to assist in the drainage of excess stormwater. A layer of #57 stone was laid on top of the fabric and the pipe. Next, a second layer of #89 stone was laid on top of the #57 stone. The final step in this project was laying down the concrete pavers and filling the small voids with #89 stone to create a smooth permeable surface.



*City employees installing pipe and stone*

### Benefits

The pervious paver system is commonly known as a self draining system. Drains and storm sewer systems tend to get overwhelmed when there are heavy amounts of rainfall. As opposed to asphalt paving that ponds water and drains slowly, the pervious parking lot is a more productive approach. The voids in the concrete pavers create space for stormwater to seep into the ground and eventually release into the nearest waterway. The water infiltrates into the ground soils which recharges local groundwater. This pervious process filters out many pollutants which offers improved water quality.



*Completed pervious paver parking lot*

### Cost

City staff conducted extensive research on the pervious pavers design, installation, estimated cost of materials, and maintenance requirements before starting construction. The total project cost was approximately \$5,000.

### Maintenance

Maintenance by city staff will be conducted regularly to keep unwanted sediments away from the parking lot to reduce clogging. If the pavers become clogged, necessary action will be taken to vacuum out debris.

