



## PERMEABLE PAVERS BMW OF DALLAS - DALLAS, TX

Belgard® Hardscapes Provides 70,000 Square Feet of Permeable Paving Stones for Additional Parking

### PROJECT:

BMW of Dallas Parking Lot

### LOCATION:

Dallas, Texas

### PRODUCTS:

AquaRoc™ Permeable Pavers

### MANUFACTURED BY:

Jewell, an Oldcastle® APG Company  
Waco, Texas

### INSTALLED BY:

Concrete Paver Systems,  
Duncanville, Texas

### INSTALLATION APPLICATION:

70,000 Sq. Ft. Parking Lot



When AutoNation purchased an existing dealership at 6200 Lemmon Ave. in Dallas, Texas, they knew they would need to create additional parking to accommodate the influx of customers and inventory expected.

However, the property that would come to be BMW of Dallas only had one area available for the extra parking: a grassy lot. Developing additional impervious cover to this area would have created more storm water runoff than government restrictions allowed. Belgard experts worked with BMW of Dallas to create a site solution including permeable pavers.

**Belgard was a great choice for this project not only because the permeable pavers were an attractive solution to the need for additional parking, but we were also able to work with BMW of Dallas as an experienced commercial site solutions provider for their storm water runoff issues.**

*Micah North  
Sales Representative, Belgard*

Across the country, urban sprawl and the proliferation of impervious

surfaces over the land plus the transportation of rain water via urban infrastructure have had grave consequences to the natural hydrological cycle.

This rising impermeability of surfaces has limited the recharging of soil water reserves, thus drying out the soils from which plant roots draw their nutrients. Dry soils also become more prone to erosion. Unable to leech down through the surface, rain water gathers sediments and ground pollutants as they dramatically increase surface runoffs through urban infrastructure, flowing down to receiving waters.

**BELGARD® HARDSCAPES PROVIDES 70,000 SQUARE FEET OF PERMEABLE PAVING STONES FOR ADDITIONAL PARKING**

This has affected the population at the expense of the environment, as well as economically, raising costs of development and maintenance of infrastructures. Landscape architects and contractors are becoming more aware of their environmental footprint and seeking out solutions that not only comply with government restrictions but also decrease their negative impact. Careful storm water planning helps to account for Mother Nature's needs while still developing land for our use.

A Belgard Hardscapes Permeable Interlocking Concrete Pavement (PICP) system manufactured by Jewell, an Oldcastle Company in Waco, Texas was chosen by installer Concrete Paver Systems to address this rising land development issue and stay within the existing footprint of the BMW of Dallas site.

Permeable pavements answer both qualitative and quantitative needs for storm water management. As water rains on the pavement, it seeps through to the ground,

reducing surface flows, often even eliminating the need for sewers and manholes.

The 70,000 sq. ft. PICP system installed at BMW of Dallas allowed for storm water to be captured, detained and discharged in a controlled manner.

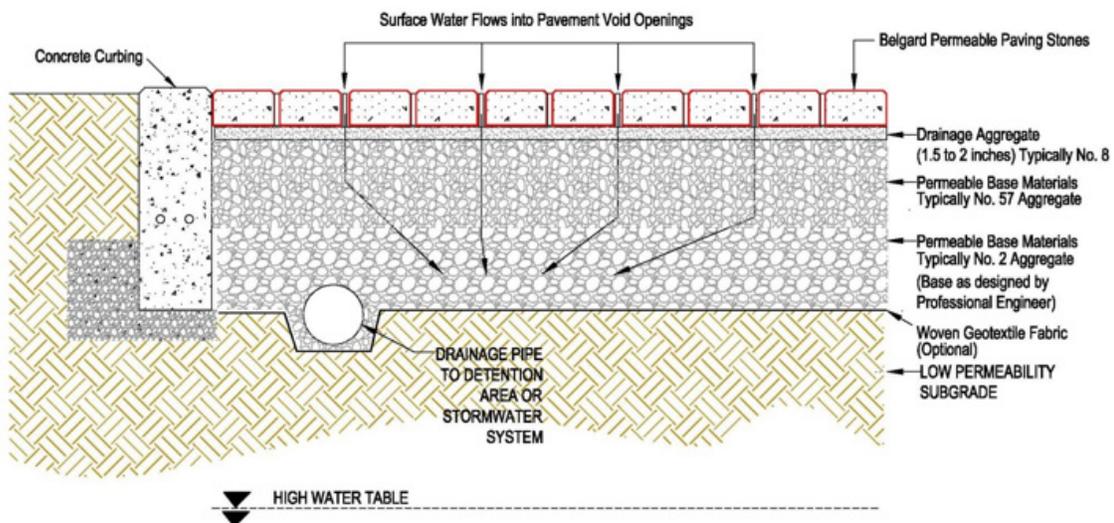
"As water rains down on the pavement, it begins its journey by seeping through the specially-filled joints in the pavers, and then through the base aggregates, which naturally filter the pollutants," said Chuck Taylor, commercial hardscapes expert for Belgard Hardscapes. "As it travels down, the water is stored in the base, until it reaches the natural underlying soils and recharges the ground aquifers that filter the water while allowing pedestrian and vehicular traffic on the surface."

The BMW of Dallas parking lot is both environmentally friendly and visually appealing. Belgard ADA compliant Aqua-Roc™ pavers were chosen for a smooth, linear

look that stands up to even the heaviest vehicular traffic. Aqua-Roc was chosen in Pewter with Charcoal accent pavers utilized to permanently mark parking stripes.

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The project, which was completed in July 2010, has stood the test of time in being a viable solution to an ever-growing environmental problem. In May 2012, BMW of Dallas hosted a PICP demonstration for designers and city officials spraying over 500 gallons of water per minute on the permeable surface without any puddling or runoff.



**About Belgard®**

Belgard, part of Oldcastle APG, offers a complete collection of paver and wall products for outdoor living spaces, walkways, driveways, parking areas and retaining walls. Available in a range of styles, premium Belgard products have been found in America's finest homes and award-winning commercial and retail properties since 1995. For more information, visit Belgard.com or call 1-877-Belgard (235-4273). Oldcastle APG is part of CRH's Building Products division. CRH is a leading global diversified building materials group, employing c.85,000 people at c.3,600 operating locations in 32 countries worldwide. CRH is the largest building materials company in North America and the second largest worldwide.