

CASE STUDY

Client: Private Residence
 Location: Lockport, IL
 Product(s): BODPAVE®85 porous pavers (Green)
 Application: Multifunctional Residential Driveway (3,000 SF)



ISSUE

The client's main goal was to protect an existing oak tree that predated the 19th century home by mitigating compaction of tree roots and to solve on-site drainage issues by increasing water infiltration for plant availability. In addition, the growing family needed to increase the amount of usable lawn space while still providing enough parking for their personal and company vehicles.

SOLUTION



TYPAR BODPAVE®85 porous pavers were selected and installed using both grass and gravel surface applications throughout the driveway. Percolation was tested on the existing compacted soil and found inadequate

for desired infiltration rates, so it was removed and replaced with 4" of free draining sub-base. BODPAVE®85 pavers filled with decorative gravel were installed under awnings, highly trafficked sections and areas where vehicles would sit for extended periods of time to provide a clean aesthetic appearance. BODPAVE®85 pavers filled with grass were installed in the remaining space to double the size of functional lawn in the back yard.

BENEFITS

BODPAVE®85 pavers provided the ideal sustainable solution for the family's needs. The new driveway is designed to protect the existing oak tree roots from continuous traffic and soil compaction and allow water to infiltrate into the soil profile. In addition, the usable lawn space in the back yard has doubled providing the necessary space for family activities in an urban location. BODPAVE®85's unique design has turned their driveway into a multifunctional green space that eliminates the effects of a typical paved surface (compaction, water run-off, heat absorption, maintenance, etc.), creating an amenity in a previously problematic area.



(1) Existing Conditions
 (2) Installation
 (3) Parking Stall

