



## Case Study

**application** | Base Course Reinforcement  
**location** | Worcester State College, MA  
**product** | Mirafi® BXG11 & BXG12 & Mirafi® HP370

**job owner** | Worcester State College  
**engineer** | Haley & Aldrich, Inc.  
**contractor** | Suffolk Construction Co.

TenCate™ develops and produces materials that function to increase performance, reduce costs and deliver measurable results by working with our customers to provide advanced solutions.

### THE CHALLENGE

Worcester State College was in need of a new residence hall, which involved constructing an enlarged roadway and parking area over a previously filled area of silty sand and glacial till. Also, a slope at one end of the parking lot would need to be reinforced.

### THE DESIGN

Haley and Aldrich, Inc. designed the parking area, roadway and slope using Mirafi® BXG12 for the roadway, Mirafi® BXG11 for the parking area and Mirafi® HP370 to reinforce the top perimeter of the slope.

### THE CONSTRUCTION

Construction and expansion of the roadway and parking area began in August of 2003.

The first phase of construction was to remove approximately two feet of the filled area below the bottom of the base layer and compact the subgrade. The Mirafi® HP370 and the Mirafi® BXG11 and Mirafi® BXG12 were installed per the engineer's design.



Mirafi® BXG11 was installed for the parking area and Mirafi® HP370 was used to reinforce the top perimeter of the slope.

**THE PERFORMANCE**

The parking area, roadway and slope have been in use for almost two years and are performing as designed and expected.



Mirafi® BXG biaxial geogrids are installed for base reinforcement.

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