

# GEOBLOCK® & GEOWEB®

POROUS PAVEMENT SOLUTIONS AT SOKA UNIVERSITY

Aliso Viejo, CA



## ENVIRONMENTAL DESIGN VISION

The **East Bay Municipal Utilities District (EBMUD)** is located in Aliso Viejo, California, just inland from the City of Laguna Beach. The SOKA University campus is designed as a Mediterranean hilltop village, reminiscent of Tuscany, Italy, with buildings stepping down a sloped hillside.

With 80% of the campus perimeter adjacent to a wilderness park, designers focused on limiting the visual impact of the facility and incorporating as many natural elements into the perimeter landscape as possible. Storm water infiltration and runoff reduction was also a critical design criteria at this site.



## PROJECT TEAM

CLIENT: SOKA University of America  
DESIGN ARCHITECTS: Summit Architects Inc.  
LANDSCAPE ARCHITECTS: SWA Group  
CIVIL ENGINEER: RBF Consulting

## LOW IMPACT POROUS PAVEMENT SOLUTIONS

State-of-the-art porous pavements were used extensively within the campus to maximize the area of permeable lawn surfaces for on-site storm water retention. Grassed emergency access lanes were reinforced by Presto's **GEOBLOCK** System, and at other locations where heavy duty traffic was planned (such as the campus "Quad" area) were reinforced with Presto's **GEOWEB** System.



**GEOBLOCK®** Porous Pavement

The **GEOBLOCK** porous pavement system protects turf under loading. With proper engineered base (4-6 inches typical), the system supports emergency vehicle loading.



Before Lawn Seeding: **GEOBLOCK** paving units were installed on both sides of the paved drive for emergency access.



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## GEOWEB® Porous Pavement Solution

The campus central quad and other areas around the university were reinforced with Presto's GEOWEB confinement system. The GEOWEB system is an economical solution for grass porous pavements in areas requiring emergency vehicle access and occasional vehicle traffic.



GEOWEB® Porous Pavement

The GEOWEB 3D Confinement system with engineered infill (topsoil/aggregate mix) creates a structurally stable, load-supporting grass roadway for unpaved and grassed surfaces.



The GEOWEB cellular confinement system with engineered infill was installed in the central quad and in locations around the campus for pedestrian green walkways and emergency vehicle support.

Completed grass access way ready for traffic.



Once vegetation is established, the GEOWEB system is not visible, blending naturally with the surrounding environment



## THE RESULTS

"The final result across the campus are natural grass 'pavements' that met the design vision for limiting visibility, allowing water infiltration and providing structural support for campus and emergency vehicles."

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