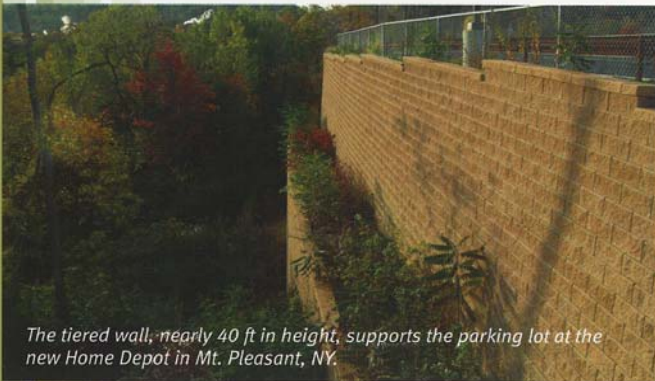




THE HOME DEPOT MOUNT PLEASANT, NEW YORK

Application: The installation of a single-wall and two-tiered wall system was needed to support the outer road and parking lots at a new, 113,000 sq ft Home Depot retail center. A drainage culvert was installed within the reinforced slopes to direct runoff to an overflow pond behind the site.

The Challenge: The contractors faced a number of challenges, including a steep downward grade from front to rear, an aggressive construction timetable, site work scheduled during the winter months and the need to alternate work among walls during complex site development tasks, including a drainage system installation.



The tiered wall, nearly 40 ft in height, supports the parking lot at the new Home Depot in Mt. Pleasant, NY.

Site Conditions: This property featured three unique grade challenges that needed to be addressed prior to construction. First, there was a very steep grade and the need for adequate drainage. Secondly, the site featured a large rock outcropping that required partial removal to accommodate wall placement. Finally, installation also required the protection of adjacent wetlands and associated wetland buffers from encroachment.

Alternative Solutions: Three competing segmental retaining wall systems (SRWs) were considered. The Mesa® Retaining Wall Systems were selected due to the ease of installation and low competitive cost that the contractor, Northeast Mesa, had experienced successfully with the system previously.

The Solution: A two-tiered wall plus two single walls were installed over a three-month period early in 2006. A portion of the rock outcropping was blasted, crushed and used as backfill behind the walls. Wall construction was alternately phased between rock blasting and the installation of the drainage system. A concrete head wall was designed to release runoff to a local watershed. Ornamental trees and shrubs were planted at the tiered walls' landing and at the top of the walls in compliance with a directive from the town's

PROJECT HIGHLIGHTS

Project:

The Home Depot

Location:

Mount Pleasant, New York

Installation:

January – April 2006,
(Additional wall installed Fall 2006)

Product/System:

Mesa® Retaining Wall Systems

Quantity:

44,416 sq ft total wall face area

Owner/Developer:

The Home Depot, Inc.

Engineers:

John Meyer Consulting, PC
CMX (formerly Schoor DePalma Inc.)

Block Manufacturer & Installation Contractor:

Northeast Mesa

CASE STUDY



COMMERCIAL APPLICATION

CASESTUDY

Planning Board. Guide rails and fencing were also installed at the top of the walls. Upon completion, the perimeter of the site was elevated approximately 30 ft. The tiered walls approached 40 ft in height, while the single walls approached 27 ft. A fifth wall, featuring a truncated design and integrated into the rock outcropping, was subsequently installed in the fall of 2006.



Tensar® Geogrids are used to reinforce the Mesa® Retaining Wall Systems.

The Mesa Advantage: Mesa Retaining Wall Systems provide superior, attractive and cost-effective solutions for your retaining wall needs. They combine the economy and versatility of segmental concrete units with geogrid technology to create a mechanically stabilized, structural

wall system. As a single-source, fully integrated segmental retaining wall system, the Mesa Systems are designed and detailed to provide optimum efficiency and long-term performance; with their positive, mechanical connection, full load transfer is assured from wall face to reinforcement for unsurpassed structural reliability. Easy to handle and install, they are low maintenance as well. Mesa Systems are available locally in a wide variety of styles, colors and textures.

Additional Information and Services:

Tensar International Corporation, the leader in geosynthetic soil reinforcement, offers a number of integrated retaining wall and reinforced slope systems. Our products and technologies, backed by the most thorough quality assurance practices, are at the forefront of the industry. Highly adaptable, cost-effective and installation-friendly, they provide exceptional, long-term performance under the most demanding conditions. Our support services include site evaluation, design consulting and site construction assistance.

For innovative solutions to your engineering challenges, rely on the experience, resources and expertise that have set the industry standard for more than two decades.

For more information on the Mesa Retaining Wall Systems or other Tensar Systems, call 800-TENSAR-1, e-mail info@tensarcorp.com or visit www.tensar-international.com.

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