

EAST LAKE SAMMAMISH TRAIL, WASHINGTON

Overcoming soft soil challenges with MIRAFL



Industry: Site development
Sub-industry: Sports and athletics
Location: Washington
Product: MIRAFL® RS580i

The Issaquah segment, in particular, was costly, totaling \$2.74 million. This expense was primarily due to the trail's narrow layout, which necessitated a full closure for the transportation of construction materials.

During construction, a stable working platform was essential. To overcome the challenge of soft soils, the construction team used **MIRAFL RS580i**, a high-strength geosynthetic

Overview

The East Lake Sammamish Trail (ELST) is a scenic, 11 mi (17.7 km) long recreational trail located along the eastern shore of Lake Sammamish. Originally following a historic railroad route, this paved path is designated for non-motorized travel. It connects various neighborhoods, retail centers, parks, and transit options, enhancing local connectivity.

Challenge

The development of ELST involved phased construction, with each section presenting unique challenges.

To overcome the challenge of soft soils, the construction team used MIRAFL RS580i, a high strength geosynthetic material, coupled with 12–18 inches (30–46 cm) of crushed rock.

CASE STUDY

Roadway reconstruction on STH-106 with **MIRAFI**

material, coupled with 12–18 in (30–46 cm) of crushed rock. Solmax provided 15 ft (4.6 m) and 17 ft (5.2 m) wide rolls of **MIRAFI RS580i**, reducing material overlap and waste, thereby minimizing costs.

Solution

The choice of **MIRAFI RS580i** proved advantageous due to its ease of use and ability to remain stable during construction. Its exceptional damage resistance offered superior durability compared to other geosynthetic products. The wider rolls of **MIRAFI RS580i** also contributed to reduced material waste and less overlap. Its high modulus, friction, and permittivity enabled the stabilization of saturated subgrades using thinner aggregate layers than traditional methods. This approach led to significant cost and time savings for the project. Additionally, **MIRAFI RS580i** serves as a lasting separator between the fine-grained, saturated soils and the clean aggregate layer above, ensuring long-term stability.



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