

SHAWNESSE BLVD

Calgary, Alberta



TYPE OF PROJECT

Mass Gravity Retaining Walls

YEAR OF CONSTRUCTION

2025

CLIENT

ALPHA BUILT

CONTRACTOR

RIVER CITY GRADING

DESIGNER

ENGLOBE

PROD. RELATED

Gabions (200), MonoAxial GeoGrids ()

Challenge

The multifamily development at 55 Shawnee Blvd SW required a solution for a **north-facing slope with a 2H:1V gradient and maximum height of 7.0 m** along the south property line. Without intervention, the slope

posed risks of **global instability, sliding, and overturning**, especially under seismic loading and seasonal moisture changes.



Solution

To address the stability risks posed by the steep 7 m slope, Englobe—the project's geotechnical engineer—implemented a three-tier gabion retaining wall system reinforced with Maccaferri's high-performance MacGrid

WG geogrid. This solution provided superior structural integrity, optimized reinforcement, and long-term durability under challenging soil and groundwater conditions.



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