



Project Title: Sierrascape Retaining Wall Mapleton Fashion Centre

Client: Arrow Construction Products/Ashford Developments

Project Description:

GEMTEC was retained by Arrow Construction Products Limited to design and provide on-site testing for a reinforced earth retaining wall for the new Mapleton Fashion Centre in Moncton, New Brunswick.

The reinforced earth retaining wall is a Sierrascape system. The wall was designed by GEMTEC Limited and materials were supplied by ARROW Construction Products Limited. The wall is about 126 metres long and varies in height from about 2.0 to 10.5 metres. The Sierrascape system includes a galvanized welded wire mesh basket fascia (Sierrascape Facing Unit) filled with 50 to 100 mm facing stone. The fascia is mechanically connected to a Tensar uniaxial geogrid, which is spaced at every 0.46 metres apart, the height of one welded wire mesh basket. The geogrid extends behind the face a length equal to about the height of the retaining wall and is backfilled with NBDot 75 mm subbase crushed rock.

The retaining wall was constructed between November 5 and December 7, 2007.

