Storm drain system succeeds for mega-mall project in salt marsh

**Problem:**

A new 182-acre mega-mall in British Columbia required a large stormwater management system that could provide corrosion resistance to the salt marsh on which is being built, and structural strength because of the poor deltaic soil conditions in this seismically active region of Canada. Portions of the system would be installed under public roads. The two projects on the peninsula jutting into Boundary Bay are Tsawwassen Mills, an enclosed shopping mall with approximately 1.2 million square feet of retail space, and Tsawwassen Commons, a retail outlet with 555,000 square feet of outdoor retail space. The project is expected to be completed in summer 2016 and will include 6,000 parking spaces.

**Solution:**

For the stormwater drainage system, more than 4,920 feet of SaniTite HP from Advanced Drainage Systems was used in diameters from 12 to 60 inches. In addition, 12 risers were fabricated using the pipe, each with an access ladder. Cover over the pipe ranged from 18 inches to 7 1/2 feet, and the backfill used was Class 1 crushed 3/4-inch angular stone.

**RESULT:**

The pipe provided a quick, contractor-friendly installation. The high beam strength, in addition to the pipe's light weight and simple bell-and-spigot joints, allowed the crew to install more than 197 feet per day. Installed on a 0 percent grade, the pipeline acts as a holding tank as well as a conveyance system, allowing water to enter nearby ditches and be used by local farmers for irrigation. 800/821-6710; www.ads-pipe.com.

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