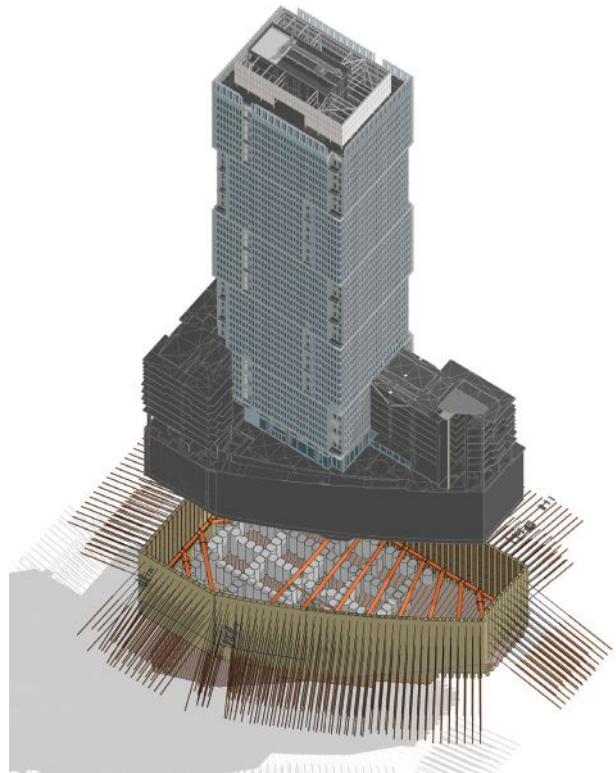


Digging Deep

Malcolm is under contract to provide temporary support of excavation for 500 Folsom in San Francisco, a proposed 570-unit apartment building located within the Transbay Development Area south of the Financial District in downtown San Francisco. With a building height of 440 ft, the project requires eight floors of below-grade parking developed

With a building height of 440 ft, the project requires eight floors of below-grade parking developed within a 72-ft-deep excavation.

within a 72-ft-deep excavation. Due to the steep sloping bedrock, a combination of secant piles and cutter soil mixing (CSM) panels will be installed for the temporary shoring walls. Bracing for the excavation will be a combination of internal struts and tiebacks. The project is underway with demolition of the existing structure, which will be followed immediately by the foundation work. ■



Brierley Associates performed BIM modeling for the 500 Folsom apartment building in San Francisco.

IMAGE: BRIERLEY ASSOCIATES

Waterproofing on a Hillside

The new Neelu Bachra Centre at 500 West Broadway in Vancouver, British Columbia, Canada, is a LEED Silver certified building that includes six stories of retail and office

space and four levels of underground parking.

To waterproof and protect the foundation, Xypex Admix C-500 was added to the concrete walls and slab on

grade. The walls were shotcrete placed and had a drainage board matting behind them to act as a drainage layer. They were placed in 8-ft lifts against the shotcrete soil-nailed excavation stabilization layer or against a single-sided plywood backing form. The shotcrete nozzelman commented that the Xypex mix had no set delay or other discernible differences in its “shootability” compared with standard shotcrete mixes.

Built into a hillside, the new structure had significant water flow into the excavated hole from the surrounding soils. Leaking cracks in the exterior foundation walls self-healed; minor repairs were required only in the elevator shaft. This deep foundation building, set into a hillside with a known high water flow, was completely and permanently waterproofed using Xypex C-Series Admixture. ■



Xypex was used to waterproof the foundation of Vancouver’s new Neelu Bachra Centre.

PHOTO: COURTESY OF XYPEX