

# BERMINGHAM

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# PROJECT REPORT

## Eight Story Parking Garage Excavation

Toronto, Ontario

### AGGRESSIVE SCHEDULE MET FOR SHORING PROJECT

Birmingham crews are conscientious about meeting aggressive timelines and the Burano Condominiums shoring project for H&R Developments/Land Terra was no exception. The shoring project involved a continuous caisson wall to permit the excavation of a 8 level subterranean parking garage for the construction of the high-rise condo located at Bay and College Streets in downtown Toronto.



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At depths up to 65 feet below grade, this is one of the deepest excavations to be completed in Metro Toronto. It involved the use of two Birmingham Drill Rigs drilling to depths of 85 feet. The retention system consisted of 240 tiebacks and 12 sets of corner braces and the majority of the tieback work was self-performed by Birmingham

crews. "We prefer to keep quality and scheduling control within our realm," emphasizes Todd Barlow, Project Manager, mentioning that at peak there were fifteen Birmingham people on site.

The project started in December 2008 and was completed in the beginning of August 2009. "For a job that size, the schedule was pretty aggressive," says Todd pointing out that there was the added challenge of accommodating an adjacent neighbour in midstream of the project. "The owner had to make design changes for an additional method of doing the retention, involving an extra 100 tie rods, to benefit the neighbour tying into the shoring in the future. We worked with the owner and the designer to come up with a system that could be readily installed and incorporated into the construction process while still meeting the targeted end date."



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