Discovery at Concord Park Place, Toronto, Canada

Wind Engineering Study

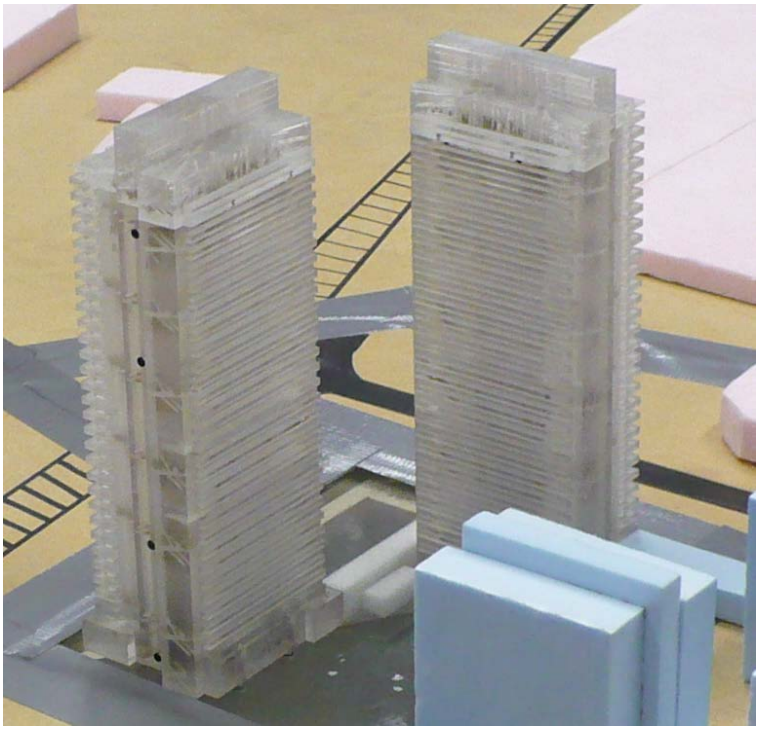

Image Credit: Concord Adex

Client	*Structural Engineer*	*Architect*
Concord Adex	Halcrow Yolles	Quadrangle Architects Ltd.
Height	*Year Tested*	*Model Scale*
Tower A - 90m Tower B - 90m	2007	1:400

The Project

The Concord Park Place development in Toronto, Canada consists of Towers A and B, as well as many additional mid-rise and low-rise buildings. Both towers are 28-storeys and rise to a height of approximately 90m. The site is bounded by Leslie Street and Provost Drive to the east and west, respectively, and by Sheppard Avenue East and Highway 401 to the north and south, respectively.

Towers A and B are part of a 45-acre planned neighbourhood, and will accommodate approximately 280 units apiece. As well, a three level parking complex will be constructed below grade.

The Wind Tunnel Studies

The wind engineering studies for Discovery at Concord Park Place Towers A and B included a study of the wind-induced structural loads and responses and local cladding pressure loads.

The study of overall structural loads and responses was determined for both towers using the force balance technique.

A study of wind-induced cladding pressures was carried out for 627 measurement locations distributed over the two towers.

The Boundary Layer Wind Tunnel Laboratory

Western

The Boundary Layer Wind Tunnel Laboratory
The University of Western Ontario
Faculty of Engineering, London, Ontario
Canada, N6A 5B9 Tel: (519) 661-3338 Fax: (519) 661-3339
Internet: www.blwtl.uwo.ca E-mail: info@blwtl.uwo.ca

FSTB/ 296 /March 2008 / TGM
Last Printed: April 9, 2009