

Project of the Year

NEW INSTALLATION — HONORABLE MENTIONS

Twinning of Etobicoke Creek Trunk Sanitary Sewer

The contractor, Dibco-CRS (a joint venture consisting of CRS Tunnelling and Dibco Underground), completed a critical infrastructure requirement from the Region of Peel to allow redundancy in the main trunk sewers. The project involved construction of 576 m of 1,800-mm ID sewer 10 m below the Active Runway 23 and Taxiways J and H at Pearson International Airport. This project also required construction of four new maintenance holes and modifications to two existing maintenance holes, including all associate appurtenances, fittings and temporary bypass pumping as necessary to complete the works.

This new sewer enables the Region of Peel to use either or both of the twinned sewers at any time, which allows flow to be diverted into one sewer and allow inspection or reha-



bilitation of the other sewer in case of emergencies and to provide additional capacity for new growth within the Region.

The launch shaft for the MTBM was built using a secant pile shaft, while the exit

PROJECT OWNER: Region of Peel

ENGINEER: Hatch Mott MacDonald (now Hatch)

SUBCONTRACTORS: Deep Foundations Canada, Inc.

EQUIPMENT/PRODUCT

SUPPLIERS: Akkerman, Decast Ltd., ASI Group

CONTRACTOR: Dibco-CRS, A Joint Venture Inc.

shaft utilized a rib and board type shaft. Tunneling commenced Oct. 27, 2015, utilizing a new Akkerman SL86P MTBM. The microtunnel drive was completed Dec. 3, 2015, and substantial completion was June 20, 2016. The hyperbaric chamber was designed to the tunnel face pressure. With pressure equalized, the MTBM face could be safely accessed by skilled divers. As the tunnel alignment ran beneath the two taxiways, a high-speed taxiway exit and an air-side service road, extreme care and monitoring were required to ensure no impact to the operating surfaces resulting from the tunneling operations.

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