



SUBSURFACE UTILITY ENGINEERING SERVICES

BMO FIELD, TORONTO

Client:

ICON Venue Group

Project Fee:

\$ 14K

Project Team:

John Scaife, Project Manager

Eric Timoshenko, Quality Manager

Greg Goulet, Field Manager

Urban X was retained by Maple Leaf Sports and Entertainment to provide Subsurface Utility Engineering (SUE) services and design considerations for expansion and alterations to the BMO Field, home stadium of the successful Toronto FC franchise of the North American Soccer League.

The extensive SUE Quality Level B utility mapping study was completed over the entirety of the exterior stadium grounds and within the critical interior areas of the building where new columns and other structural improvements were required to support facility expansion. Urban X completed all utility design and data on schedule, and delivered the findings plotted to ACSE 38-02 guidelines, which permitted the international team of engineers and architects to minimize their design impacts on existing underground utility systems at the BMO Field complex.



Subsurface Utility Engineering
Services to Assist with Design
Considerations for Expansion and
Alterations



Image Credit

DETAILED SUBSURFACE UTILITY ENGINEERING STUDY

VAUGHAN, ONTARIO

Client:
RioCan Management Inc.

Project Scale:
\$9,600

Completion:
2013

Project Team:
John Scaife, Project Manager
Eric Timoshenko, Quality Manager
Greg Goulet, Field Manager

Colossus Centre Mall is a diverse and unique shopping complex that sprawls over 16 acres of land near the Hwy 407 and Hwy 400 interchange. It features a clearly defined hierarchy of internal streets servicing over 60 famous brand name retail outlets.

In 2013, Urban X was retained by RioCan Management Inc. to complete a detailed Subsurface Utility Engineering (SUE) study, and to assist with design considerations for alterations and additions to the mall. Urban X designated all underground facilities, including utility structure inspections, over much of the existing south end of the facility and captured all data with differential GPS measurements. These findings were plotted to ASCE 30-02 guidelines. The timely delivery of these data provided the owners, architects and design engineers with an accurate understanding of the existing underground utility network, and to permit go-forward consideration of design impact to existing underground facilities.



The SUE study provides accurate underground utility network info impacting design considerations for alterations and additions of a shopping facility.

This project was developed and completed by Cole Engineering Ltd. In April 2017, Urban X acquired the projects, history and resources of COLE's Infrastructure Intelligence & Environmental Exploration business



Image Credit

MAPPING OF UNDERGROUND UTILITIES

MASSEY HALL, TORONTO

Client:

KPMB Architects

Completion:

2013

Project Team:

John Scaife, Project Manager
Eric Timoshenko, Quality Manager
Sebastian Aristizabal, Surveyor

This subsurface utility engineering (SUE) project included mapping all underground utilities to assist the architects with renovation design considerations. The site is to be re-developed to a multi-use facility and yet maintain the heritage and soul of Massey Hall – a preeminent sound stage experience. This work was completed early in 2013, which included mapping all building services and their connections to the surrounding City of Toronto infrastructure to ensure capacity and continuity of service during the renovation. This work was completed using a variety of utility location technologies following ASCE 38-02 and the findings were delivered on the client's AutoCAD base plan.



All building services and their connections were mapped to the surrounding City of Toronto infrastructure.