

project brief

TYPE OF FACILITY:
Communication Tower



CN Tower

■ Toronto, Ontario, Canada

Defining the Toronto skyline, the CN Tower is Canada's most recognizable and celebrated icon. At a height of 1815 feet (553 m), it is an important telecommunications hub, and the center of tourism in Toronto.

Piping designers and installers required an innovative piping solution to compensate for the 4-1/2 foot (1.37 m) sway movement of the nearly 100 sections of pipe in the tower in any direction.

The Victaulic flexible grooved system was utilized on the domestic water lines due to its ability to accommodate expansion and contraction caused by ambient temperature changes in an unheated and non-air conditioned central shaft.

The designers considered the Victaulic grooved piping method the most versatile and reliable method for creating the pipe deflection capabilities needed to accommodate the sway of the tower.

SPECIFICATIONS:

SERVICES:

Potable Water

PIPE MATERIALS:

Carbon Steel

PIPE SIZE RANGE:

4"/114.3 mm



MARKET:
HVAC

VICTAULIC SOLUTIONS:
Accommodate pipe movement, expansion and contraction, installed cost savings

OWNER:
City of Toronto

CONTRACTORS:
Ellard-Wilson and Associates

ENGINEER/CONSULTANT:
The Mitchell Partnership

COMPLETED DATE:
1976



WCAS-6NHGXD

