

EPCOR's Cloverbar T-Line

Edmonton, Alberta, Canada

Keller installed drilled shafts, providing a foundation solution for transmission monopoles and overcoming complex utility constraints, challenging site access, and winter conditions.



The project

Keller delivered foundation solutions for EPCOR's Cloverbar transmission line installing 26 large-diameter drilled shafts to support monopole structures for new power infrastructure serving a nearby hydrogen facility.

Shaft installation was executed along a corridor near live power lines, high-traffic roadways, bridges, and numerous underground utilities. Working within these limitations required careful coordination, including daylighting and securing existing services before drilling.

Subsurface conditions consisting of clay and clay till overlying clay shale. Keller installed shafts to depths of 26 ft to 49 ft (8 m to 15 m). Temporary casing was used to control groundwater and prevent sloughing soils, while permanent casing was installed where utilities encroached on pile locations.

Given the winter construction schedule and mass concrete requirements, the team implemented heating and hoarding measures, along with temperature monitoring to track in situ concrete performance.

Despite complex site constraints and winter conditions, Keller delivered a safe, efficient foundation solution to support critical energy infrastructure.

Project facts

Owner(s)

EPCOR

Keller business unit(s)

Keller

Main contractor(s)

Construction Ltd.

Engineer(s)

Thurber Engineering

Solutions

Deep foundations

Markets

Power

Techniques

Drilled shafts

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