

YUKON ENGINEERING EXCELLENCE AWARD

City of Whitehorse Ogilvie Street West Reconstruction

Submitted by: Associated Engineering
Client: City of Whitehorse

Project Bio

The City of Whitehorse, Yukon has experienced steady growth over the past decade and currently has a population of nearly 28,000 residents. The City accounts for the vast majority of the Yukon's population and growth is expected to continue.

With aging and deteriorating infrastructure assets the City has analyzed and catalogued the condition of its existing infrastructure and developed a replacement schedule to ensure efficient operation, minimum service outage and to accommodate future growth. During their assessment, the City identified Ogilvie Street as an area of concern as both the underground and surface infrastructure were aging and require upgrades.

This historic section of Whitehorse contains some of city's oldest infrastructure. The City of Whitehorse engaged Associated Engineering to develop a design replacing the underground utilities and surface works. The project team looked at current water demands, sewer production volumes as well as future growth options in the area to produce the deep utility design. Project Manager, Steven Bartsch, says, "The road structure was replaced with a non-frost susceptible material and the new road surface will incorporate organized parking stalls, as well as curbs and sidewalks. The resulting landscape design will bring a modern look to Ogilvie Street."

With the input of property owners along with the City of Whitehorse the project team overcame several challenges during the design phase of the project. Designing a new underground infrastructure system that could be constructed to tie into the existing system with minimal disruption to current residents was the most important issue. Critical information on the existing infrastructure was known, however, some details, such as the depths of the existing systems, would have to be determined in the field. Solutions for the installation of the new utilities would then be made on-site. Dealing with connection of water and sewer services to individual buildings was

challenging and required good liaison with those living along or operating businesses on the street.

Underground and surface infrastructure upgrades modernized Whitehorse's historic Ogilvie Street. The project went to public tender in early-2014 and was awarded to an established Yukon contractor. Construction started in late-May 2014. Associated Engineering conducted full-time field inspection and administration of the project on behalf of the City.

The project costs were in the region of \$3.8 million and is was completed in 2015.

Our key personnel on this project include:

- Steven Bartsch, PEng,
- Gwenda Sulem, EIT,
- James Stobbs, AScT,
- Lee Poettcker, and
- Don Daigneault.

Contractor – P.S. Sidhu Trucking Ltd.