Optimization of Ground Heat Exchanger
Thermal and Hydraulic Design

Project Number 22-05

PROJECT TEAM:
Students: Timothy West, Jeffrey D. Spitler

Goal
Project aims to develop automated methods for hydraulic design of ground heat exchangers (GHE), complementing recently developed automated thermal design methods

Outcomes/Deliverables
This project will deliver: a comprehensive GHE cost function, a hydraulic-circuiting algorithm based on graph theory, a pipe sizing interfaces, and simple user interface