

### **Mandatory Professional Involvement Additional Information**

Cost and schedule implications vary depending on how mandatory professional involvement is mandated. A basic scope of work reviewing that shoring is installed per design intent has a lower cost and schedule impact compared to the more extensive requirements the City of Ottawa has for excavations and shoring.

The 2023 Consulting Engineers of Alberta Rate Guide suggests rates of \$170-\$250 per hour based on the level of responsibility of the engineer. Design costs would add thousands based on the required scope of work.

Registered professional of record means a registered engineering professional retained to be responsible for the integrity and completeness of the design and field reviews of one or more of the architectural, structural, mechanical, electrical and geotechnical elements of a project.

Registered professionals are required to complete field reviews at appropriate points during the construction phase to have confidence that the actual construction generally conforms with the design.

Each field review would cost several hundred dollars accounting for travel time to site, on-site field review and discussions, a field review report and any work for corrective actions noted on site.

While cast in place concrete foundations can be poured in the winter, the constructor must take additional precautions to ensure a successful installation. These precautions, such as temporary heat and insulated formwork, are not required in warmer months. Builders may prefer to construct in the warmer months to avoid the cost and timeline impacts of completing this work in the winter. Additional industry capacity may be required to meet demand if this is implemented.