The following information is required to be provided in the Geotechnical Engineering Report and Recommendations:

- Retaining wall earth pressure coefficients for the following conditions:
  - Active
  - At-rest
  - Passive
- If vibro-compaction/replacement is recommended:
  - Required minimum relative density.
  - Required average cone penetration test value.
- If deep foundations are recommended:
  - L-Pile output (or equivalent software) with fixed head condition bending moments and shears for each recommended pile size.
  - Vertical spring constant for each recommended pile size.
- Friction coefficient specific to soil on site.
- Soil subgrade modulus for slabs-on-grade.
- Recommendations for foundation type(s) included the expected bearing stratum and allowable design values for bearing and skin friction, if applicable. Include uplift resistance values.
- Requirements for corrosion protection for underground structures. Indicate if sulfate-resistant cement will be required for below-grade concrete work.
- If any geologic hazards are found, provide recommendations for ground modification or foundation type medication for the building foundations and floor slabs.
- Discussion of conditions that will be encountered during foundation excavations and building pad preparation, such as ability to excavate with conventional equipment, dewatering, allowable embankment slopes, temporary bracing requirements, etc.
- Information regarding ground water conditions.
- Estimate of seasonal high ground water conditions.
- Provide estimated total and differential settlement of all components of the site designed in accordance with the recommendations.
- Geotechnical engineering services shall also assume/include a review of the construction documents (plans and specifications) when completed, to confirm that the recommendations contained in the geotechnical engineering report have been properly interpreted and incorporated into the project design.
- The Owner and A/E team will review the completed Geotechnical report and may offer questions and/or request clarification at various times during the project development, which will require the Geotechnical Engineer’s timely input/response.
- Proposal shall include a separate line-item for Construction Phase Services.