

Marsha:

The following is the scope of services we outlined in our proposal to Linda:

The intent of this study will be to develop conceptual foundation schemes for various structural loading(s). In general, we have assumed that the structures proposed will be less than 40 feet in height. The types of construction that will be considered are:

Wood or Steel-framed Residential Housing
Steel-framed, Office/Commercial (including a potential Hotel)
Masonry Parking Garage

We will evaluate the subsurface data to develop foundation systems that we believe are viable for these types of construction. In addition to the typical evaluation required of the in-place fills and/or organic soils, the Building Code requires seismic design for the structures. The most critical part of the seismic evaluation will be to assess the liquefaction potential for the soil, the sensitivity of the in-place clayey soil, and eliminate the potential for a Seismic Site Classification of F. Restricting the building heights to under 40 feet could aid in achieving this goal.

We propose to review the existing data in light of these concerns. If additional exploration and/or testing is deemed necessary after reviewing the existing information, we will submit a requested exploration and testing program to you for your Term Contractors to execute. We will also submit a quote for our time/involvement during the requested exploration.

Specifically, we propose the following scope of services:

1. Meet with you to discuss the project and collect the available subsurface data.
2. Evaluate the existing information. Assess the potential for liquefaction of the loose deposit during a seismic event. Assess the sensitivity of the clay based on the test results provided. Assess the need and provide recommendations for additional exploration/testing.
3. Evaluate the in-place fill conditions. Assess the suitability of the fill to support the floors and/or foundations.
4. Perform settlement estimates and bearing capacity calculations for the various structural loading(s) and foundation options under consideration. Develop potential foundation approaches for different portion of the site.
5. Consult with Jensen Engineering, P.C. on the foundation options under consideration. Jensen Engineering, P.C. will assess the interaction of the concrete and steel proposed for the foundation system with the in-place blast furnace waste. They will provide recommendations for protecting the new foundation system proposed and provide cost comparisons between the proposed system and a standard spread footing system.
6. Consult with LaBella Associates, P.C. on the environmental conditions expected on the site and measures that may be require in handling materials. We will ask that they provide drafting support in developing the site mapping showing areas where we believe the various foundation systems may be required to support each type of construction.
7. Submit a report outlining our conclusions.

Let me know if you require anything else.

Jeffrey D Netzband, P.E.
Foundation Design, P.C.
335 Colfax Street
Rochester, NY 14606
Phone (585) 458-0824
FAX (585) 458-3323