



Memorandum

Date: October 1, 2019

Recipient: Finegold Alexander Architects
Regan Shields Ives and Christopher Lane

Sender: Jonathan W. Patch, P.E.

Project: Leicester Middle School

Project No: 6743.2.00

Subject: Preliminary Geotechnical Review of Proposed Building Location

The purpose of this letter is to confirm that the preliminary foundation design recommendations contained in our Preliminary Foundation Engineering Report (PFER) dated April 1, 2019 are still applicable to the proposed construction now that the location of the proposed building on site has been determined.

The location of the proposed building on the site had not been determined at the time the subsurface exploration program was completed as part of our preliminary geotechnical study. As such, eight (8) borings were performed across the entire site for the purpose of obtaining subsurface information in order to provide preliminary foundation design recommendations not knowing where on site the building would be located. The borings indicated that the ground surface is underlain by a thin, surficial layer of topsoil. Below the topsoil, the borings encountered about 2 to 7 feet of uncontrolled fill which was underlain by a dense natural glacial till deposit. Groundwater was observed within five (5) borings upon completion of drilling at depths ranging between 6 and 8 feet below the existing ground surface.

Recently, the proposed building location was determined and is in close proximity to borings MA-2, MA-3, MA-5 and MA-6 which encountered the dense natural glacial till deposit at depths of 4 to 5 feet. Based on this preliminary boring information, it is recommended that foundation support for the proposed building be provided by conventional footing foundations in conjunction with slab-on-grade construction as outlined in the above-referenced PFER. Please reference the aforementioned PFER for additional recommendations regarding foundation design and building pad preparation.

Additional subsurface explorations (borings and/or test pits) will need to be performed to further delineate the depth to the natural glacial till deposit across the proposed building footprint. The information obtained from these explorations will be utilized to prepare a Final Foundation Engineering Report, however, at this time, it is not anticipated that the conditions observed within these explorations will result in an alteration of McPhail's foundation design recommendations as presented in the PFER. Lastly, it is not anticipated



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at the current time that a ground improvement technique such as Aggregate Piers (APs), as mentioned on Page 7 of the PFER, would be required for foundation support.

Should you have any questions or require anything else, please contact us.

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