



## Memorandum

Date: 8 February 2019

To: Dominic Gagnon – Colliers International

From: John H. Thomsen – Simpson Gumpertz & Heger

Project: 150093 – Maine Medical Center

Subject: Maine Medical Center – Post-Tensioned Tiebacks in Existing Employee Garage

As requested, I am writing this memo to describe the purpose of installing post-tensioned tiebacks in the existing employee garage at Maine Medical Center.

The existing employee garage (also known as the Gilman Garage), located on the corner of Congress Street and Gilman Street is scheduled to be decommissioned and removed at the end of 2019. The existing garage acts as a retaining wall that retains the soil and utilities that are located between the existing garage and the LL Bean Building located across Crescent street (also known as the access road). The uphill structures, soil, and buried utilities must remain intact during and after the garage removal.

The existing garage foundation wall (on the south side of the garage) must remain in place to preserve the uphill conditions of the site. The existing garage foundation wall alone is not capable of resisting the earth pressures once the garage is removed. To supplement the capacity of this wall to resist the lateral earth pressure, the design team proposes to install post-tensioned tiebacks to anchor the wall to resist these lateral earth pressures. Most of the tiebacks can and will be installed prior to demolishing the garage to ensure stability of the site during garage removal.

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