

**National Park Service [NPS] is hosting a webinar
Tuesday, October 8, 2024 at 11:00 am CST
Adjacent Construction Activity in Urban Areas:
Understanding and Managing the Risks
(Free to CLGs!)**

To the members of the BHPC, Staff, Building Owners at the Sq., and the HPO [myself] you are encouraged to attend this webinar, from your home-office.

Granted Blanco is a small town. At the Square we do have "Zero-Lot Line Properties" and a roll of building backed up to the Pecan Bottom Creek and a historic rock wall. Demolition, excavation, vibrations underpinning, and dewatering activities can cause damage to nearby buildings and infrastructure. Plus, some of the local buildings are monolithic.

Vibrations: Pile driving, and soil compaction can cause vibrations that can damage adjacent property or discomfort building occupants. Vibrations can also cause soils to liquefy or densify, which can damage fragile or archaic structures.

Dewatering: It lowers the water table, which can distort or damage soil foundations that support existing structures.

Excavation: It can cause horizontal or vertical movement of existing foundations, which can lead to a range of problems for adjacent properties.

Earth movement: Demolition, excavation, and dewatering can cause earth movement and structural damage.

Noise and dust: Noise and dust can cause nuisance concerns.

These risks can be reduced by effective planning and communication. Many jurisdictions have regulations that dictate the roles, responsibilities, and requirements for different parties during construction.

Adjacent Construction Activity in Urban Areas: Understanding and Managing the Risks.
Presented by Scott J. DiFiore, P.E.

Heavy civil construction in dense urban environments directly affects neighbors and existing adjacent structures. Demolition, excavation, and dewatering can cause damage to nearby buildings and infrastructure. Project teams that overlook impacts to neighboring structures during the design phase often see these issues come to light during construction, which may manifest in repairs or delays. In this webinar, we will discuss the risks inherent for various types of adjacent construction activities and explore ways to evaluate and manage these risks.

After attending this seminar, participants will be able to:

- Identify adjacent construction threats that can jeopardize a project.
- Understand rules of thumb that quantify level of risk.
- Recognize statutes and codes related to adjacent construction.
- Learn approaches and methods used to mitigate risk at the project level.

SPEAKER Scott J. DiFiore, P.E. | Principal

Scott has advanced degrees in both structural and geotechnical engineering and leverages his experience to solve complex problems related to below-grade construction and soil-structure interaction. Scott has extensive in design, investigation, and rehabilitation of various structural systems, including underpinning systems, excavation-support systems, deep and shallow foundations, retaining walls, slabs, slopes, dams, tunnels, buried utilities, and other underground structures. His broad experience has also involved evaluation of risks to existing structures due to adjacent construction activity, assessment and repair of deteriorated concrete, evaluation and retrofit of elevated slabs and roof decks for new equipment or load conditions, condition assessments, and design of temporary works. As part of Scott's work, he uses the in-house laboratory to assess conditions of materials including concrete, wood, steel, coatings, and other materials. Scott has taught classes in Applied Mechanics at Tufts University and serves on the Geotechnical Advisory Committee that supports the Massachusetts State Building Code. Scott is head of the Heavy Civil Division at SGH, which includes structural, civil, and geotechnical engineers.

The webinar is scheduled for Tuesday, October 8, 2024 at 11:00 am CST. You can register for the webinar here:

https://sgh.zoom.us/webinar/register/WN_a4wu4r88RlqGfceK0q9AjA#/registration

In service,

Grace Robbins

State, Tribal, Local, Plans & Grants Division

National Park Service

1849 C Street, NW Mail Stop 7360 (mail sent USPS will be irradiated)

Washington, DC 20240

202-354-2020

<https://www.nps.gov/subjects/clg/index.htm>

www.nps.gov/stlpg