Bruce Podwal Seminar Series

The City College of New York

Pile Design Through a Case Study in Surf Avenue Brooklyn

Miguel G. Matos
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12:30 – 1:30 pm, Tuesday, Sept. 13, 2022
Civil Engineering Department, Room 105, Steinman Hall
(Light lunch will be served)

Abstract: This presentation uses a case study in Coney Island [the about 70-000-square-foot 3514 Surf Avenue development] to present foundation design concepts relevant for NYC development. The development consists of two 22-story towers, a three- to five-story podium that occupies an entire Brooklyn block. This presentation describes numerous challenges that arose during design and explains key geotechnical engineering concepts along the way; presentation includes complex soil conditions, strict settlement tolerances, and flood considerations for post-Hurricane Sandy Coney Island.

Biography: Miguel G. Matos received his undergraduate degree from our very own City College of New York (2008), and received his masters in engineering from NYU (2012). Mr. Matos has spent the past 15+ years serving as a geotechnical engineer in the NYC area for a variety of sectors, including: large public infrastructure projects, private high-rise towers, and affordable housing developments. Mr. Matos began his career as a geotechnical engineer predominately in the public infrastructure sector during his 8+ years at Hardesty & Hanover, LLC. He spent the next 6+ years at Langandesigning and managing geotechnical and multidisciplinary projects in the private and public sector. He currently works as a lead Geotechnical Engineer at Structural Engineering Technologies, where he is shaping and growing an emerging geotechnical group.

Mr. Matos is a published author and has provided numerous presentations at various conferences/events including DFI, ASCE, SEAoNY. He has also been very active in the community serving as an active member of Engineers Without Borders – CCNY Student Chapter and NYC Professional Chapter for about a decade.