



WILLIAM P. SHAFFER, E.I.
Staff Engineer



Professional Experience

Joined DBA 2019

Total years of experience: 1

Graduate Research Assistant, Department of Civil Engineering, Virginia Tech (2017-2018)

Research/Teaching Assistant, Department of Engineering, Marshall University (2016-2017)

Geotechnics/Hydraulics Engineering Intern, Graz University of Technology, Austria (2016)

Highway Engineering Intern Co-Op, West Virginia Department of Highways, Bridge Department (2015)

Education

M.S., Civil Engineering, Virginia Tech, 2018

B.S., Engineering (Civil Emphasis), Marshall University, 2017

Professional Licensure and Certifications

Engineering Intern in West Virginia

Fields of Expertise

Design, construction, and load testing of deep foundations

Field observation, documentation, and inspection of geotechnical construction

Use of deep foundation analysis programs: LPile, GROUP, spColumn, Settle3

Use of the slope stability analysis program SLIDE

Use of CPT analysis programs: CPeT-IT and CLiQ

Major Projects

Nashville International Airport (BNA) International Arrivals Facility (IAF) – Nashville, TN (2019-present) – Peer reviewed the design and construction process of approximately \$4 million of 5.5” to 12.75” diameter micropile foundations, micropile soldier pile retaining walls, and micropile load testing. In the field for peer review of the construction process for most of the project.

Consolidated Interim Nuclear Waste Storage Facility – Andrews, TX – (2020) – Performed numerical analysis of settlement behavior of footings using the program Settle3 by Rocscience and verified the numerical analysis with MathCAD calculations.

Topanga Center Expansion – Los Angeles, CA (2020) – Performed geotechnical and geostructural design calculations for 18 inch diameter continuous flight auger (CFA) piles for a multi-story shopping center expansion including pile group analysis in the computer program GROUP.

Google Caribbean Business Campuses – Sunnyvale, CA (2019-2020) – Performed geotechnical and geostructural design calculations for 16 inch diameter continuous flight auger (CFA) piles and prepared plans for construction in AutoCAD.

Crenshaw Pump Station, Palos Verdes Peninsula Water Reliability Project – Rancho Palos Verdes, CA (2019) – Performed field observations, provided documentation, and provided recommendations for the construction of soldier pile retaining wall and fill placement/compaction in which Dan Brown and Associates was the geotechnical engineer of record.

Los Angeles International Airport (LAX) Automated People Mover Project Load Testing – Los Angeles, CA (2019) – Performed field observations, provided documentation, and provided recommendations for the construction of 5, 7.2 ft diameter, 60-110 ft long, test drilled shafts installed using 3 different construction methods – rotary drilling under polymer drilling fluid, oscillator casing and grab hammer excavation without drilling fluid, oscillator casing and grab hammer excavation with drilling fluid.

City of Logan Wastewater Treatment Plant Expansion – Logan, UT (2019) – Performed the load testing and load test data reduction of an 18 inch diameter continuous flight auger (CFA) pile.

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Columbus Crew Stadium Secant Pile Wall – Columbus, OH – (2019) – Performed exploratory soil borings and specified soil testing

Nvidia Campus – Santa Clara, CA (2019) – Performed the compression and tension load testing and load test data reduction of 2, 24 inch diameter continuous flight auger (CFA) piles.

Manhattan Village Shopping Center Expansion – Manhattan Beach, CA (2019) – Performed geotechnical and geostructural design calculations for 16 inch diameter auger cast piles for the expansion of a shopping center and parking structure.

Professional Memberships

American Society of Civil Engineers (ASCE) and Geo-Institute (GI) of the ASCE

Geo-Institute Deep Foundations Committee

Deep Foundations Institute (DFI)