

Wagman Heavy Civil installs micropiles on the Route 7 design-build project for VDOT at Tysons, Va. Micropiles provide numerous benefits beyond conventional driven pile and/or drilled shafts, as they can be installed in difficult environments where there is varying geology or limited overhead or horizontal clearance.

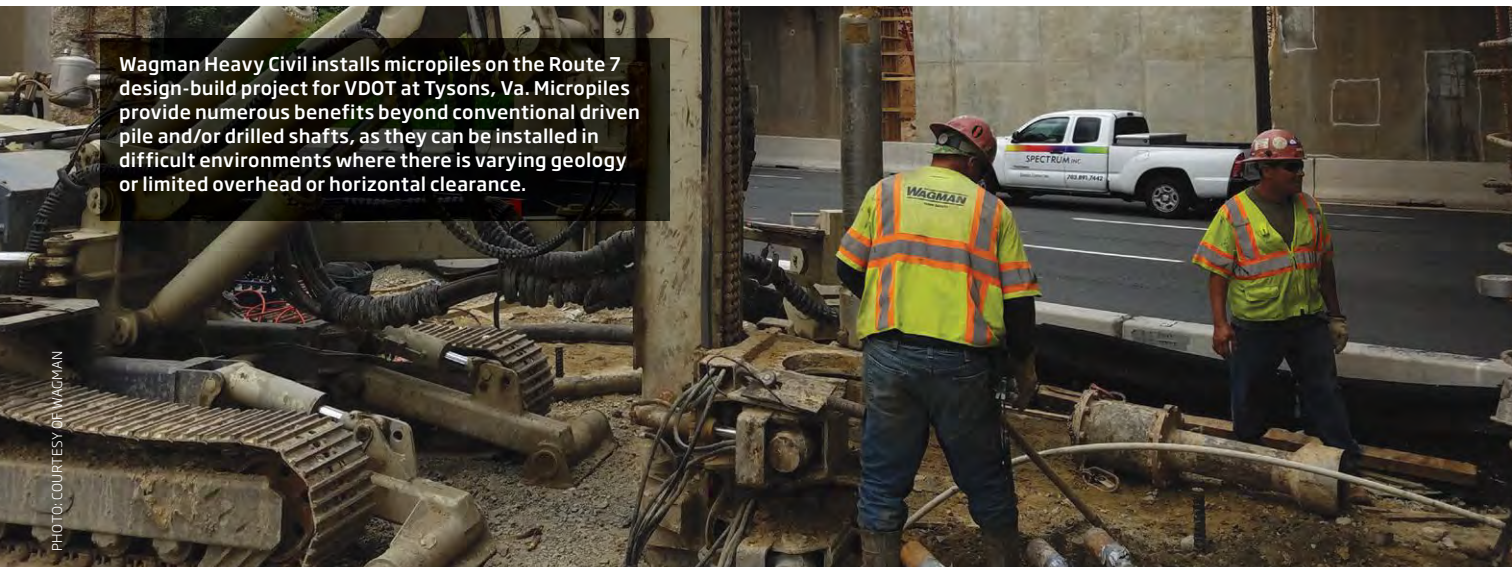


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Spotlight on Virginia Projects

Innovation Abounds in Virginia's Growing Construction Market

Construction volume is not the only thing on the rise in Virginia; both public and private projects are also being planned, designed, procured and constructed using innovative methods. Mega projects are either already underway or about to begin across the state in numerous markets, including energy, health care, government services, highways, transit and other multi-modal transportation networks, says Greg Andricos, president and COO, Wagman Heavy Civil.

“Historically, the Commonwealth of Virginia has been a somewhat steady, cyclical market without severe dips or surges, which has allowed for a more comfortable climb as the economy comes back from the Recession,” adds Greg Peele, EVP/general manager of Skanska USA Building’s Virginia and North Carolina operations. “We saw a slight slowdown that has already grown in 2016, and we see a surge coming in 2017.”

Most notably, the state budget is bringing higher education projects throughout the Commonwealth, along with a tremendous increase in

health care. “The Recession caused these markets to dip, but now with improving economic conditions and a rise in population throughout the Commonwealth, these health-care institutions have chosen to expand their campuses,” Peele says.

Skanska is providing construction management at risk services for the demolition of an existing 162,000-sq-ft, six-story masonry building and the construction of a new six-story, 150,000-sq-ft academic building for behavioral and health sciences at James Madison University in Harrisonburg, Va. Scheduled to open this fall, the new facility will host nursing, communication sciences and disorders, social work, health sciences and creative services departments. Skanska recently completed the \$143-million Children’s Pavilion on the campus of Virginia Commonwealth University in Richmond.

Meanwhile, multibillion-dollar infrastructure improvements will continue in both the Hampton Roads and Northern Virginia Metropolitan Regions. While the Virginia Dept. of

Transportation (VDOT) will continue to procure selective projects under the Public Private Transportation Act (PPTA), such as the \$2.1-billion I-66 Express Tolls Lanes Project, it expects to increase the volume of projects procured via design-build. “VDOT already uses several different methods for design-build, and future procurement innovations may include progressive design-build and design-build with alternate technical concepts,” says David W. Lyle, vice president, design-build/major pursuits, Wagman’s Virginia operations.

VDOT is joining other DOTs in the Mid-Atlantic, including PennDOT and Maryland DOT, in the use of micropiles as bridge foundations on conventional design-bid-build projects. Micropiles have long been used in the private market for residential, educational and medical facilities inclusive of hospitals across the Mid-Atlantic. VDOT previously developed specifications for the design, installation and testing of micropiles for use on design-build and PPTA projects only. ■

Chesterfield Power Station's Haul Road and Bridge Opens To Traffic

The Chesterfield Power Station is Dominion Virginia Power's largest coal-fired generating plant. Located in Chester, Va., the Integrated Ash Project involves the closing of the current two-pond wet ash system and conversion of the dry ash system by constructing a new coal ash landfill. The first phase of

the project, completed on July 15, 2016, features a 1.36-mile access road and a 1,389-ft.-long bridge, the critical link to cross over the wetlands and Proctor's Creek to connect the future new coal ash landfill to the power station.

The new 11-span bridge allows Dominion access to construct the

new coal ash landfill, access to safely transport fill material to cap and close the two ponds, and future ability (once the dry ash system is complete) to transport coal ash from the power station to the new coal ash landfill for a permanent solution. The conversion is a significant environmental improvement and will eliminate the mixing of water to transport coal ash to ponds for a much cleaner system. The completion of the fast-paced bridge and haul road project allows Dominion to complete the goal of closing the existing ponds for EPA compliance.

David Lyle, vice president, design-build/major pursuits for Wagman Heavy Civil, the project's general contractor, says the team focused on safety, implementation of environmental best practices and schedule, while working closely with Dominion to complete the project. ■



A new 11-span bridge provides a critical link to the Chesterfield Power Station.

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Increased Regional Demand for Geotechnical Construction Services Drives Expansion

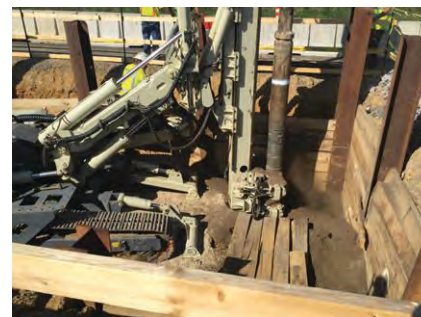
Wagman Heavy Civil continues to grow in Virginia to support the burgeoning demands of the civil, commercial and power markets. Headquartered in York, Pa., Wagman acquired an office in Berryville, Va., in 2012, and in 2015 developed a portion of its 24-acre campus near Petersburg, Va., to include a new 11,200-sq-ft office and equipment service center.

While well-known as a general contractor and design-build firm, Wagman continues to provide specialty services that include grooving and grinding, bonded concrete overlays and geotechnical construction services, such as permanent foundations and temporary and permanent earth retention systems. Most recently, Wagman Heavy Civil increased its geotechnical construction services by adding the necessary resources to self-

perform auger cast/continuous flight auger piles. Auger cast piles provide numerous benefits to conventional deep foundations, including reductions to cost, installation time, vibration and noise.

Wagman's experience delivering award-winning projects earned the firm the contract to perform the critical foundations and structures work for VDOT's high-profile \$52-million Southgate Drive/Route 460 interchange in Blacksburg, Va.

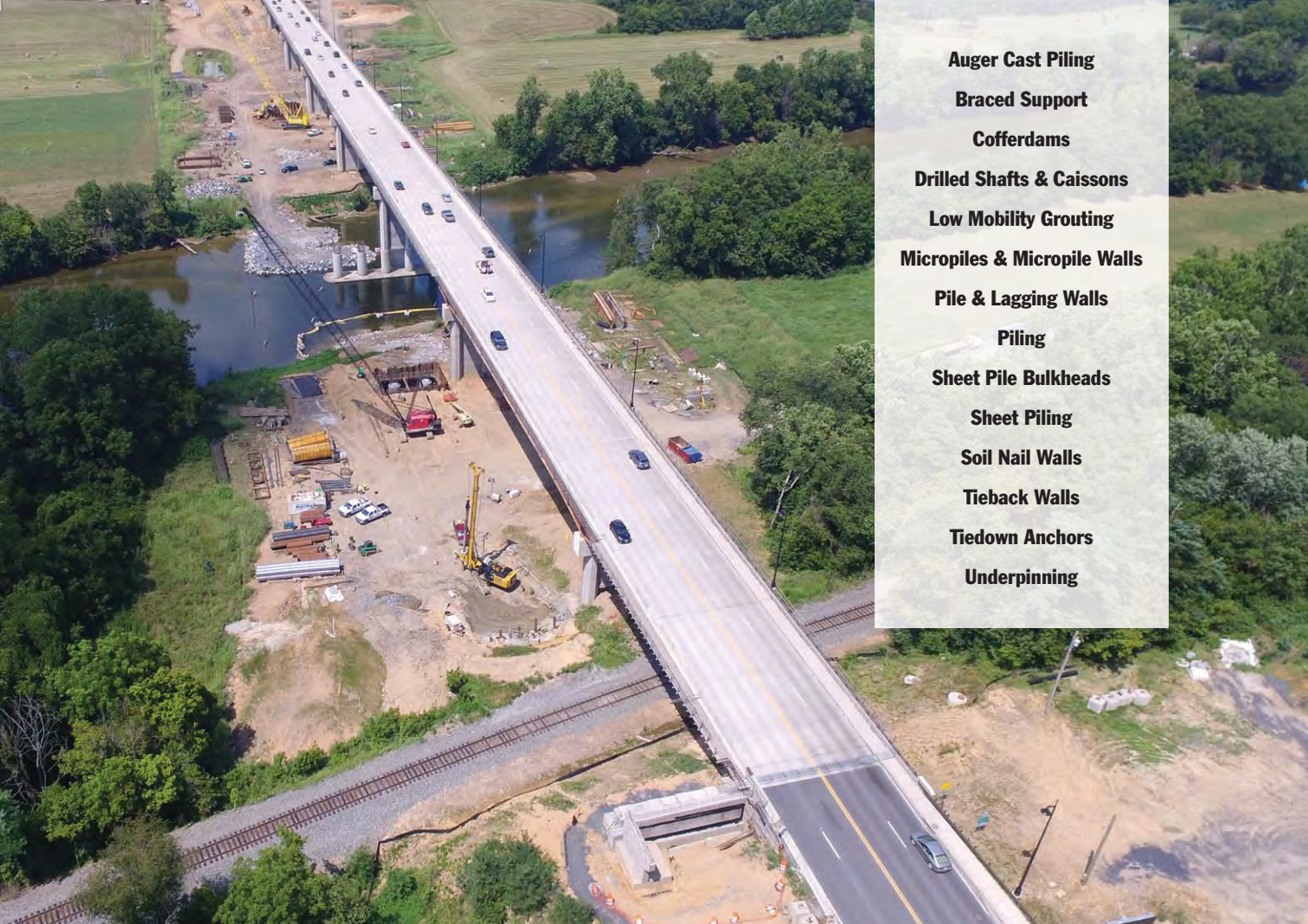
Wagman's ability to provide innovative geotechnical solutions has also been the driving force behind the successful execution of the \$41.5-million fast-track design-build contract with VDOT to reconstruct the Route 7/ Dulles Toll Road Interchange in Tysons, Va. Numerous physical constraints on this project include the installation



Wagman installs permanent pier foundations for the new Southgate Drive Bridge over Route 460 near Blacksburg, Va.

of three different types of permanent foundations (micro piles, driven H-pile and drilled shafts), as well as the design and installation of both temporary cantilevered and permanent support of excavation using grouted tiebacks as required to support the construction of four new bridges. ■

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- Auger Cast Piling
- Braced Support
- Cofferdams
- Drilled Shafts & Caissons
- Low Mobility Grouting
- Micropiles & Micropile Walls
- Pile & Lagging Walls
- Piling
- Sheet Pile Bulkheads
- Sheet Piling
- Soil Nail Walls
- Tieback Walls
- Tiedown Anchors
- Underpinning



Building Solid Foundations in Geotechnical Construction

Wagman's Geotechnical Construction group offers a broad range of geotechnical solutions to support public and private sector projects. Operating in the Mid-Atlantic region, Wagman provides comprehensive geotechnical services for projects requiring foundations and earth retention systems. Wagman's geotechnical design and construction team can provide cost savings and accelerated project delivery.

Visit www.wagman.com to learn more.

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