



**Submittal #017:**

**PennDOT restores I-95 Overpass Collapse in 12-days with the help of  
Ultra-Lightweight Foamed Glass Aggregate**

**Abstract:**

On the morning of June 11<sup>th</sup>, 2023, a tanker truck carrying approximately 8,500 gallons of gasoline crashed and caught fire on the Cottman Avenue exit ramp under Interstate 95 in northeast Philadelphia. The fire collapsed the bridge carrying the northbound lanes of the interstate and severely damaged the southbound bridge. As I-95 through Philadelphia is one of the most highly trafficked travel corridors in Pennsylvania, PennDOT was greatly concerned with the speed of reconstruction. Ultra-lightweight Foamed Glass Aggregate (UL-FGA) is a lightweight fill alternative that was a critical component of the I-95 rebuild and supported the accelerated schedule. This presentation will review the path to reopening the interstate only 12 days post-collapse.

**References:**

<https://www.equipmentworld.com/roadbuilding/article/15540679/recycled-glass-to-help-i95-repair-in-philadelphia>

<https://apnews.com/article/i95-interstate-collapse-philadelphia-buttigieg-269d1c784e2c8e3cdb60b141a549f21c>

<https://www.prnewswire.com/news-releases/foamed-glass-aggregates-supplier-aero-aggregates-celebrates-reopening-of-i-95-corridor-301861229.html>

**Speaker:**

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**Bio:**

Archie is the founder of Aero Aggregates and manages the daily operations for the company. He has over 25 years of international experience in the geotechnical market, encompassing a vast range of experience in executive management, engineering, project management, construction, and manufacturing. He started his career as a regional manager for an environmental products company and went on to become Managing Director of European operations for a global manufacturing company. After returning to the states, he started an international contracting company focused on solid waste and industrial landfills, soft soil stabilization, coal ash, shale gas development, sediment remediation, reinforced earth structures and lightweight fill. This experience guided him to establish AeroAggregates. He is an adjunct professor at Temple University in the Graduate Engineering School and past Chair of the Delaware Valley Geo-Institute. Archie earned a Bachelor of Science degree from Temple University and a Master of Science and Ph.D. from Drexel University in Philadelphia.