



**SOUTHEAST CEMENT
PROMOTION ASSOCIATION**



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Peachtree City, Georgia Depends on FDR as Best Solution for its Aging Roadway System



1 Roadway before FDR



2 FDR process underway



3 Open to local traffic during construction



4 Roadway after FDR

Founded in 1959, Peachtree City is an award-winning master planned community located just south of Atlanta, Georgia in Fayette County. The community has over 35,000 residents with golf courses, golf cart paths, housing and a mix of businesses. Even the Target has golf cart parking spaces in its parking lot! In some areas of the community, the infrastructure has been in place since the 1960s.

As these roads have aged, it became apparent repairs were needed. To be proactive, Peachtree City contacted an engineering firm to evaluate, rate, and rank all of the repairs needed on its road system. From this network assessment, Peachtree City started using Full-Depth Reclamation with Cement (FDR) in 2015 as a way to quickly and completely rehabilitate its failed pavements. "We have found that when a roadway has more than 15-20% of base failure, FDR is actually the most cost-effective solution over the traditional methods of repair," said Peachtree City's Civil Engineer Jonathan Miller.

For each of the past three years, Peachtree City has let a large project with multiple roads to be reclaimed each year. The project let in 2018 includes 32 roads with 132,000 square yards of reclamation mixed 10 inches deep. They will use approximately 3,300 tons of cement for this work. The existing pavement is being milled two inches; so, once the reclamation is completed and a two inch asphalt wearing course is placed, the gutter depth will be maintained.

Since many neighborhoods in Peachtree City have a single entrance, FDR allows accessibility to be maintained on one lane while the other lane is being rehabilitated with FDR. The speed of construction is also a huge benefit. Project FDR contractor Mandy Neese with Atlanta Paving & Concrete Construction, said "A resident can leave for work in the morning and come home to a rebuilt road that same evening." Miller echoed that sentiment saying "The FDR process has proven to be the most-cost effective solution for expediting the reconstruction of the roadways with base failure, while allowing one lane to be open for accessibility."

Peachtree City has recognized FDR as the best solution for its aging roadway system. Miller also said "The other benefits of the FDR process include: the entire base is rebuilt, the cement provides a semi-impermeable layer to protect from water, and it allows you to address potential drainage issues by manipulating the slopes in areas that may be holding water."

FDR with Cement provides Peachtree City with long lasting roads, smooth roadways for its citizens' activities, and assurance to the entire community that they will not be disturbed by constant construction on their roadway system for many years.

Whether you are building a new pavement or dealing with a failing existing pavement, please contact the Southeast Cement Promotion Association so our team may help you find an economical, durable, and sustainable solution that is right for your project. (www.secement.org)

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