



Capstone Design Project Abstract

Project Title: Battle Row Restriping and Traffic Controls and Telfair Street Improvements

Sponsor: Turn Back the Block LLC, UGA Archway

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Faculty Mentor: Mentor: Stephan Durham, Ph.D., P.E.

Battle Row and Telfair Street are two roads located in the historic Augusta neighborhood of Harrisburg. Safety concerns for these streets exist due to inconsistent ADA accessibility, poor roadway geometry, and excessive speeds by motorists. The neighborhood's proximity to a local elementary school means the area has a significant number of lone child pedestrians, who are especially vulnerable to potential traffic accidents while walking to and from school. Despite the need for improvements, Augusta's limited infrastructure budget and the neighborhood's low priority on citywide projects has made significant roadway improvements challenging. UGA Archway is partnering with Turn Back the Block, a nonprofit whose mission is to revitalize the Harrisburg community. Both parties are seeking a plan to improve Battle Row and Telfair Street by implementing traffic calming, accessibility, and overall infrastructural quality.

The Battle Row Restriping and Traffic Controls and Telfair Street Improvements plan involves a mill and overlay of both roads to restore pavement quality. Battle Row will experience the most substantial geometry changes in order to reduce traffic speed and increase pedestrian safety. The travel lanes will be reduced to ten and a half feet, and a delineated parking lane will be added in the eastbound direction. Intersections will have bump-outs to improve visibility at crosswalks as well as provide green space and shade trees along the corridor. The design also includes widened sidewalks, curb ramps, and striped crosswalks meeting ADA specifications. Additionally, the sidewalk on Battle Row will be extended to enhance neighborhood connectivity and provide additional green space within the corridor. These improvements are designed to support Turn Back the Block's mission by increasing driver and pedestrian safety, transportation equity, greenspace, and accessibility in Harrisburg.

