



CASE STUDY: MIAMI STREETScape REVITALIZATION



FDOT Project T6338 - West Flagler Street

Project Location: Miami, Florida

Application: Tree Soil Cells

Installation Date: Winter 2016, Revisited Winter 2024

In August 2016, the Florida Department of Transportation (FDOT) and Miami-Dade County began an urban revitalization project for a section of West Flagler Street located half a mile west of downtown Miami. The project included a new bicycle lane, sidewalks and pedestrian ramps, street reconstruction, and 281 existing street trees that needed to be protected in place, relocated, or replaced.

More than 60 of the replacement trees were installed in modular tree cells, which provide a lightly compacted soil envelope for healthy tree root growth and a structural support system for the sidewalk and surrounding streetscape.



The modular tree cell product that was originally specified for this project was a competitor's system, but the cost savings associated with the alternate StormTank Urban Root System (URS) was substantial - approximately 40% lower material cost compared to specified system. The awarded contractor submitted the StormTank URS to FDOT as an equivalent technology. FDOT reviewed and approved the URS for use on the project.

The StormTank URS was installed in the Winter of 2016 by the awarded contractor, Russell Engineering.



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More than eight years later, the 60+ trees planted in these StormTank systems provide shade to the streetscape along West Flagler Street.

The trees are healthy and growing quickly despite the challenging urban environment.



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