Project Profile: SHAFT CONSTRUCTION

BRADSHAW CONSTRUCTION CORPORATION
TUNNELING SPECIALISTS

CIAC Water Project Segment 2, Phase 1: Rivercrossing
Tampa, FL



PROJECT OVERVIEW AND CHALLENGES

This microtunnel project was part of the Design/Build Capital Improvements Program for the City of Tampa. For future city growth, Bradshaw microtunneled a 60" x 482' steel casing under the Hillsborough River for a new 36" DIP water main. Two shafts were constructed: a 23' ID x 45' deep launch shaft at Julian B. Lane River Park and a 10' OD x 40' deep drilled receiving shaft at the Straz Performing Arts Center. The water main was installed in the casing and shafts, tested, disinfected and grouted in place. The project challenges included a compressed construction schedule, shafts in close proximity to the river, less than 2 diameters of cover over the tunnel under the river bottom, wet soil mixing (WSM) for the launch shaft, numerous unknown existing utilities, and severe restrictions on disturbing the public. The project was completed expeditiously without any accidents or safety violations earning CH2M-Hill's Excellence in Safety (ESP) Award.





PROJECT INFORMATION - 544

OWNER:
City of Tampa
PJ Calloway
813-635-3400
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ENGINEER:
Greeley & Hansen
Tom Wilson
813-873-3666
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CONTRACTOR:
CH2M Hill

COMPLETION DATE:
12/19/2014

GEOLOGY:
Limestone, Clay, Sand, Chert

EXCAVATION METHOD:
Wet Soil Milxed (WSM) Shaft
Drilled Shaft

MINING DIMENSIONS:
WSM 23' ID x 45' VF & Drilled 10' OD x 40' VF

FINAL LINING:
Wet Soil Mix
Steel

FOR MORE INFORMATION:
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Refer to Project 544