



Hillsborough County South Central Intertie - Contract 2 Riverview, FL

The new 84 inch water pipeline project included a tunnel section under the Alafia River. Access shafts were required on each side of the river for the tunnel boring machine. Since the 70 ft. deep access shafts extended roughly 25 ft. into the confined Floridan Aquifer (Tampa Limestone) under an artesian head, control of groundwater flows was a serious concern. Schnabel Foundation Company designed and built 40 ft. and 24 ft. ID circular cofferdams for these access shafts, utilizing overlapping 'soft' and 'hard' secant piles (36" diameter by 80 ft. deep) to act as a cutoff wall. Shotcreted, circular concrete ring walers supported the secant shafts at five (5) levels. Pressure relief wells were installed outside and inside each cofferdam to maintain bottom stability and to control bottom inflows.

Owner: Tampa Bay Water
 General Contractor: Kenko, Inc.
 Program Manager: Hill/MK JV
 Design Consultant: CDM
 Geotechnical Consultant: Driggers Engineering Service Inc.
 Secant Shafts: Coastal Caisson Corp.
 Pressure Relief Wells: Moretrench Amerian Corp. Smith Associates

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