U.S. Route 29 Water Transmission Main
Columbia, MD

PROJECT OVERVIEW AND CHALLENGES

Bradshaw recently completed the installation of 470 linear feet of 60 inch steel casing under U.S. Route 29 for a 36 inch water transmission main. Tunnel depths ranged from 6 to 30 feet below the surface, with the alignment passing beneath the water table through dense silty sands and partially weathered rock. Bradshaw constructed a 32 foot diameter, 27 foot deep steel rib-and-liner plate launch shaft to facilitate tunneling activities, and the MTBM was recovered out of a trench box on the far side of the highway. The access shaft was constructed in a potential flood zone within 10 ft of active sanitary sewer and water lines, and within 50 feet of the Little Patuxent River.