

# LOUDOUN COUNTY PARKWAY

LOUDOUN COUNTY, VIRGINIA



**CLIENT:**

Virginia Department of  
Transportation (VDOT)

**CONTRACT AMOUNT:**

\$10 million

**DELIVERY METHOD:**

Design-Build

**CONTRACTOR:**

Shirley Contracting Company

**DESIGNER:**

Dewberry Consultants LLC

**COMPLETION DATE:**

June 2006

As part of the Route 28 Corridor Improvements Project, Shirley Contracting Company, LLC was awarded a \$10 million fixed price change order to design and construct the extension of Loudoun County Parkway (Route 607) from its intersection with Smith Switch Road to 0.5 miles south of Route 7 in Loudoun County, Virginia. The PPTA design-build project included design, permitting, utility relocations, right-of-way acquisition, quality assurance/quality control services, and construction of 1.2 miles of four lane roadway including crossings of Beaverdam Run and Russell Branch.

The project included extensive utility relocations consisting of over 6,000 linear feet of overhead utilities including Dominion Power and Verizon ; 6,000 linear feet of communications duct banks for Looking Glass, MCI, Level 3, and Abovenet, and 4,000 linear feet of 24" water main for Loudoun County Sanitation Authority (LCSA).

The design team completed hydraulic and hydrologic analysis, floodplain studies, and a Letter of Map Revision (LOMR) to revise the 100-year floodplain along portions of Beaverdam Run and Russell Branch. The Russell Branch crossing was completed as a 140' wide 42'x16' BEBO Concrete Arch culvert. The Beaverdam Run crossing was designed and constructed as dual 36' wide by 89' long single span bulb-T bridges on MSE abutments. At both locations the roadway profile was adjusted to meet VDOT Hydraulic and Hydrologic standards.

Using a fast paced and integrated design-build format the project was completed in June 2006, achieving final completion 11 months ahead of schedule.