



### Carl D. Silver Parkway

ATCS performed all roadway design and civil engineering services from the initial alignment studies through the submission of construction documents for the Carl D. Silver Parkway in the City of Fredericksburg. This roadway consisted of two phases with the following elements:

- 6000-l.f. of four (4) lane closed section roadway with a varying width MS-2 raised grass median
- 2900-l.f. of six (6) lane closed section roadway also with a MS-2 raised grass median
- 1,110-feet of two (2) lane closed section roadway
- Approximately 16,000-feet of waterlines
- Approximately 4,400-feet of sanitary sewer
- Approximately 10,400-l.f. of storm sewer
- 9-way utility duct bank
- Six (6) stormwater management basins
- Four (4) bioretention filters design for low impact development
- 211-l.f. of 16-foot-wide by 5-foot high Con-Span for a significant water crossing

The roadway was designed to VDOT standards and was accepted into the VDOT state system of highways. Profiles included sight distance investigations to ensure that proper standards and clearances were met. Superelevation was designed in accordance with the latest VDOT TC-5 standards. The project also featured VDOT approved pavement structures and signing and marking plans in accordance with VDOT standards.

The preparation of the construction plans followed the policies included in the VDOT Road Design Manual, Instruction and Informational Memorandums, VDOT Road and Bridge Standards, and VDOT construction specifications. The project also featured multiphase erosion and sediment control plans meeting DCR requirements with specifically designed sediment basins and other E&S control measures. Maintenance of traffic concerns were minor since this was a new road.