Conduct an evaluation on the existing Airport Sewer Collector for options to increase the capacity (highlighted in magenta).

Approximate Length: 7,740 LF
Replace existing water pumps to meet future potable water demand and improve water age and fire flow availability. Add standby generators to each station.

Ashcroft Pump Station 2 & 3
Pump Replacement
Capital Improvement Project
Replace existing cast iron water mains (highlighted in magenta) with 8-inch diameter D.I.P. water mains.

Approximate length: 3,075 ft.
Replace existing 6" cast iron water mains with 8" D.I.P. water mains and create additional connections to Four Seasons and Berkmar Crossing (highlighted in magenta)
Approximate length: 11,640 LF.
Camelot SSES Rehabilitation will include manhole rehabilitation, pipe re-lining and point repairs.
Replace existing PVC and asbestos cement water mains (highlighted in magenta) with D.I.P. water mains ranging in size from 4" to 8".

Approximate length: 7,620 ft.
Replace existing asbestos cement water mains with 8" D.I.P. water main (highlighted in magenta). Approximate length: 4,350 ft.

Crozet Phase 3 Water Main Replacement
Capital Improvement Project
Ednam Pump Station Upgrades
Capital Improvement Project

Replace existing pumps, piping and control panels to increase pumping capacity and improve fire flows. Control panels will be SCADA ready.

Recommendation from the West Leigh Redundancy Evaluation
Extend a water main along Olympia Drive (highlighted in magenta) with 8-inch D.I.P. to provide redundancy.
Approximate length: 630 ft.

Extend a water main along Verona Drive (highlighted in magenta) with 8-inch D.I.P. to provide redundancy.
Approximate length: 210 ft.
Construct Glenmore Water Tank, Pump Station and 16-inch diameter water main. Approximate length = 2,250 ft.

Proposed 600,000 gal. Water Tank and Pump Station
Upgrade existing sewer main from 8" dia. to 10" dia. (highlighted in magenta)
Approximate length: 800 ft
Install 12" and 8" D.I.P. water main connection (highlighted in magenta) between Ivy Road and the Flordon Subdivision. Approximate Length = 3,100 ft.

Recommendation from the West Leigh Redundancy Evaluation
Construct 12" D.I.P. water main connection between Key West and Dunlora (highlighted in magenta), Approximate length: 4,056 LF.
Replace undersized galvanized, PVC, cast iron and transite water mains (highlighted in magenta) with D.I.P. water mains ranging in size from 4" to 12". Approximate Length = 22,800 ft.
Upgrade existing sanitary sewer pump station. May require new pump station or expansion of existing pump station.
Replace existing Cast Iron Water Main
New Alignment Approximate length: 3,100 ft.
Approximate length of main to be abandoned: 1,500 ft.

Existing Water Main To Be Abandoned

New Water Main Alignment From PVCC Through UVA Foundation Property
(Shown in magenta)
Install 8" PVC and DIP sewer line (highlighted in magenta). Approximate length: 975 ft
Install 8 sewer manholes (highlighted in magenta).

Abandon the Oak Forest Pump Station and force main.

Connection to Stonefield Sanitary Sewer
Approx. Length = 2,325 ft.
Replace existing cast iron water mains (highlighted in magenta) with 8" D.I.P.
Approximate length: 7,420 ft
Replace cross street transite water mains (highlighted in yellow) with 4" D.I.P.
Approximate length: 1,450 ft

Additional hydrants and valves will be installed.
Conduct Sewer System Evaluation Survey (SSES) of the Pantops Drainage Basin. Evaluate 82,720 linear feet of sanitary sewer mains and 512 manholes.

Pantops Drainage Basin SSES
Capital Improvement Project
Extend a water main along Parkview Drive (highlighted in magenta) with 8-inch diameter D.I.P. from Emerson Commons to Thurston Drive.

Approximate length: 3,400 ft.
Complete the design and installation of the identified pump improvements.
Replace undersized cast iron and asbestos cement water mains (highlighted in magenta) with new 8-inch 6-inch and 4-inch D.I.P. and fire hydrants.

Approximate length: 2,325'
Replace existing asbestos cement water mains (highlighted in magenta) with 8-inch diameter D.I.P. water mains.

Approximate length: 1,600 ft.
Replace asbestos cement water mains (highlighted in magenta) with D.I.P. water mains ranging in size from 4" to 8".

Approximate Length = 7,950 ft.