



ultraMontgomery

(P341700)

Category	General Government	Date Last Modified	03/11/21
SubCategory	Technology Services	Administering Agency	Technology Services
Planning Area	Countywide	Status	Preliminary Design Stage

EXPENDITURE SCHEDULE (\$000s)

Cost Elements	Total	Thru FY20	Rem FY20	Total 6 Years	FY 21	FY 22	FY 23	FY 24	FY 25	FY 26	Beyond 6 Years
Planning, Design and Supervision	856	343	-	513	159	134	70	50	50	50	-
Construction	6,388	222	-	6,166	2,569	1,097	610	630	630	630	-
TOTAL EXPENDITURES	7,244	565	-	6,679	2,728	1,231	680	680	680	680	-

FUNDING SCHEDULE (\$000s)

Funding Source	Total	Thru FY20	Rem FY20	Total 6 Years	FY 21	FY 22	FY 23	FY 24	FY 25	FY 26	Beyond 6 Years
Current Revenue: Cable TV	7,244	565	-	6,679	2,728	1,231	680	680	680	680	-
TOTAL FUNDING SOURCES	7,244	565	-	6,679	2,728	1,231	680	680	680	680	-

APPROPRIATION AND EXPENDITURE DATA (\$000s)

Appropriation FY 22 Approp. Request	680	Year First Appropriation	FY16
Cumulative Appropriation	3,844	Last FY's Cost Estimate	7,244
Expenditure / Encumbrances	889		
Unencumbered Balance	2,955		

PROJECT DESCRIPTION

The ultraMontgomery CIP provides for capital funding to support Montgomery County's economic development program and digital equity initiatives. Like economic development, internet service accessibility and affordability are critical factors in addressing equity disparities. The Department of Technology Services (DTS) Office of Broadband Programs has re-directed the strategic goals of ultraMontgomery to better address equity-based initiatives in underserved neighborhoods and areas where service does not exist or residents are unable to afford service. Funding will support planning, design, and construction of: (1) completion of the Great Seneca Fiber Hwy to provide shortest distance, low latency connection between Great Seneca and Ashburn, Virginia data centers; (2) completion of phase 2 of the East County Fiber Hwy to provide regional interconnections north-south between White Oak and Howard County and east-west between Burtonsville and WSSC in Laurel; (3) MoCoNet Digital Equity in Affordable Housing projects to expand use of County broadband infrastructure to close the digital equity gap through the provision of free or low cost, reliable and robust residential Internet services and devices at affordable housing and rural properties throughout the County; (4) expanding rural broadband grant opportunities and exploring a pilot project with Starlink SpaceX satellite internet solutions to make robust broadband available (100 Mbps + download speeds) to unserved properties in the Agricultural Reserve who are interested in participating; (5) Public WiFi and Advanced Wireless Conduit Networks to provide conduit and fiber to support public WiFi and

wireline and wireless broadband networks in commercial and community gathering areas of Montgomery County; (6) Innovation Testbeds to spur development and expansion of traffic, transit, and pedestrian sensors, Internet of Things (IoT), advanced robotic, and cybersecurity IoT applications and innovation in Montgomery County; (7) Purple Line Fiber to connect Montgomery County research and higher education facilities to MAX and Internet2 at the University of Maryland, College Park; and (8) White Oak Science Gateway Conduit Network to provide broadband conduit infrastructure in Viva White Oak and other White Oak commercial development projects.

ESTIMATED SCHEDULE

(1) Primary construction of the Great Seneca Fiber Hwy will be completed in FY21, with fiber ring to alternate data centers completed in FY21-22, and additional extensions within Great Seneca completed in FY22-FY26. (2) East County Fiber Hwy Phase 1 (to Burtonsville) was completed in FY18; Phase 2 to Howard County and Prince George's County will be completed in Summer 2021. (3) Digital equity installations began in FY21 and will continue through FY23. (4) Providing robust broadband to the Agricultural Reserve began in FY21 and will continue through FY23. Starlink internet solutions started development in FY21. (5) Design for public WiFi, advanced wireless, and conduit in commercial and community gathering areas is underway and outreach to potential private partners is in development. (6) Testbeds are in development. (7) Purple Line is dependent on the Purple Line and third-party construction schedules, and agreement from MDOT and Purple Line concessionaire to use fiber. (8) White Science Gateway conduit construction will be performed concurrently with Viva White construction and is expected to begin in FY23-24.

PROJECT JUSTIFICATION

ultraMontgomery is a broadband economic development and digital equity program, designed to ensure that businesses and underserved residents of affordable housing units in Montgomery County have as much reliable, secure, and robust broadband service as they need to live, work, learn and keep our economy moving at the speed of our ideas. As part of the recovery efforts, OBP made internet access available at affordable housing and rural locations. For several years DTS has been working on expanding internet availability in the Agricultural Reserve through partnerships with the incumbent providers and applying for state and federal broadband grant opportunities. Additionally, efforts are focused on working with affordable housing partners to determine the level of interest and potential affordable housing developments that can be served.

ultraMontgomery supports economic and racial diversity, equity, and inclusion goals by working to close our community's digital divide through: access to competitive broadband services in commercial buildings through infrastructure development, public private partnerships, strategic conduit network deployment, and leasing of spare County fiber and conduit; access to the digital economy for underserved communities through deployment of devices and residential broadband in affordable housing developments and expansion of Public WiFi; business growth and innovation in biotech/biohealth, cybersecurity, IT services, financial services, media and similar high-bandwidth-consuming sectors and federal, state, research and higher education institutions.

COORDINATION

FiberNet (P509651); Purple Line Department of Transportation; Maryland-National Capital Park and Planning Commission; Montgomery College; WSSC; Information Technology Policy Coordination Committee; and Montgomery County Economic Development Corporation.