



Photo Credit: Montgomery County
Department of Transportation

CORRIDOR FORWARD

The I-270 Transit Plan

Approved & Adopted
SPRING 2022

ABSTRACT

Corridor Forward: The I-270 Transit Plan contains an examination of and recommendations for a transit network along the I-270 corridor, including both a near-term network of dedicated bus lanes and a long-term vision of an extension of Metrorail's Red Line and enhanced MARC service along the Brunswick Line. The near-term network of dedicated bus lanes builds on existing master planned projects, including the MD 355 and Veirs Mill Road Bus Rapid Transit (BRT) projects to create a transit network that serves communities and employment centers along the I-270 corridor. Corridor Forward reenvision the master planned Corridor Cities Transitway as a network of dedicated bus lanes, which connect the I-270 corridor communities to the county's existing and planned rapid transit network.

Corridor Forward is a functional master plan that looks ahead 25 years from the date of adoption. This Plan recommends the MD 355 BRT and Veirs Mill Road BRT projects as the most crucial first steps in improving transit accessibility along the I-270 corridor. Incremental implementation of the Corridor Connectors and pursuit of actions to advance the Red Line extension and MARC commuter rail enhancements are envisioned over the Plan's horizon.

This Functional Master Plan is an amendment to the 2013 *Countywide Transit Corridors Functional Master Plan* and the 2018 *Master Plan of Highways and Transitways*. It also amends *The General Plan (On Wedges and Corridors) for the Physical Development of the Maryland-Washington Regional District in Montgomery and Prince George's Counties*, as amended; the 1989 *Germantown Master Plan*; 1994 *Clarksburg Master Plan and Hyattstown Special Study Area*, as amended; 2009 *Germantown Employment Area Sector Plan*; 2010 *Great Seneca Science Corridor Master Plan*, as amended; 2014 *10 Mile Creek Area Limited Amendment Clarksburg Master Plan and Hyattstown Special Study Area*; 2016 *Montgomery Village Master Plan*; 2019 *MARC Rail Communities Sector Plan*; and 2021 *Shady Grove Sector Plan Minor Master Plan Amendment*.



The Maryland-National Capital Park and Planning Commission

The Maryland-National Capital Park and Planning Commission (M-NCPPC) is a bi-county agency created by the General Assembly of Maryland in 1927. The Commission's geographic authority extends to the great majority of Montgomery and Prince George's Counties; the Maryland-Washington Regional District (M-NCPPC planning jurisdiction) comprises 1,001 square miles, while the Metropolitan District (parks) comprises 919 square miles, in the two counties.

The Commission is charged with preparing, adopting, and amending or extending *The General Plan (On Wedges and Corridors) for the Physical Development of the Maryland-Washington Regional District in Montgomery and Prince George's Counties*. The Commission operates in each county through Planning Boards appointed by those county governments. The Planning Boards are responsible for implementation of local plans, zoning amendments, subdivision regulations, and the administration of the bi-county park system.

The M-NCPPC encourages the involvement and participation of individuals with disabilities and its facilities are accessible. For assistance with special needs (e.g., large print materials, listening devices, sign language interpretation, etc.), please contact the M-NCPPC Montgomery County Commissioners Office by telephone 301-495-4605 or by email at mcpchair@mncppc-mc.org. Maryland residents can also use the free Maryland Relay Service for assistance with calls to or from hearing or speech impaired persons; for information, go to www.mdrelay.org or call 866-269-9006.



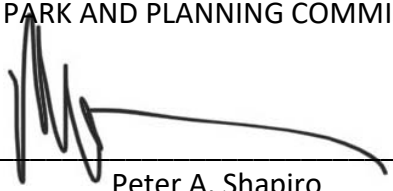
CERTIFICATION OF APPROVAL AND ADOPTION

CORRIDOR FORWARD: THE I-270 TRANSIT PLAN

This Comprehensive Amendment to portions of the 2013 *Countywide Transit Corridors Functional Master Plan*; 2018 *Master Plan of Highways and Transitways*; being also an amendment to the *General Plan (On Wedges and Corridors) for the Physical Development of the Maryland-Washington Regional District in Montgomery and Prince George's Counties*, as amended; the 1989 *Germantown Master Plan*; 1994 *Clarksburg Master Plan and Hyattstown Special Study Area*, as amended; 2009 *Germantown Employment Area Sector Plan*; 2010 *Great Seneca Science Corridor Master Plan*, as amended; 2014 *10 Mile Creek Area Limited Amendment Clarksburg Master Plan and Hyattstown Special Study Area*; 2016 *Montgomery Village Master Plan*; 2019 *MARC Rail Communities Sector Plan*; and 2021 *Shady Grove Sector Plan Minor Master Plan Amendment* has been approved by the Montgomery County Council, sitting as the District Council, by Resolution Number 19-1207 on April 5, 2022, and has been adopted by The Maryland-National Capital Park and Planning Commission by Resolution Number 22-08 on May 18, 2022, after duly advertised public hearings pursuant to the Land Use Article – Division II, of the Annotated Code of Maryland.

THE MARYLAND-NATIONAL CAPITAL PARK AND PLANNING COMMISSION



Casey Anderson
Chair

Peter A. Shapiro
Vice-Chair

Gavin Cohen
Secretary-Treasurer



THE MARYLAND-NATIONAL CAPITAL PARK AND PLANNING COMMISSION

6611 Kenilworth Avenue • Riverdale, Maryland 20737

MCPB NO. 22-043

M-NCPPC NO. 22-08

RESOLUTION

WHEREAS, The Maryland-National Capital Park and Planning Commission, by virtue of the Land Use Article of the Annotated Code of Maryland, is authorized and empowered, from time to time, to make and adopt, amend, extend and add to *The General Plan (On Wedges and Corridors) for the Physical Development of the Maryland-Washington Regional District Within Montgomery and Prince George's Counties*; and

WHEREAS, the Montgomery County Planning Board of The Maryland-National Capital Park and Planning Commission, pursuant to procedures set forth in the Montgomery County Code, Chapter 33A, held a duly advertised public hearing on December 9, 2021 on the Public Hearing Draft of *Corridor Forward, The I-270 Transit Plan*, being also an amendment to portions of the 2013 *Countywide Transit Corridors Functional Master Plan*, the 2018 *Master Plan of Highways and Transitways*, the *General Plan (On Wedges and Corridors) for the Physical Development of the Maryland-Washington Regional District in Montgomery and Prince George's Counties*, as amended; the 1989 *Germantown Master Plan*; 1994 *Clarksburg Master Plan and Hyattstown Special Study Area*, as amended; 2009 *Germantown Employment Area Sector Plan*; 2010 *Great Seneca Science Corridor Master Plan*, as amended; 2014 *10 Mile Creek Area Limited Amendment Clarksburg Master Plan and Hyattstown Special Study Area*; 2016 *Montgomery Village Master Plan*; 2019 *MARC Rail Communities Sector Plan*; and 2021 *Shady Grove Sector Plan Minor Master Plan Amendment*.

WHEREAS, the Montgomery County Planning Board, after said public hearing and due deliberation and consideration, on December 23, 2021, approved the Planning Board Draft of *Corridor Forward: The I-270 Transit Plan*, recommended that it be approved by the Montgomery County Council sitting as the District Council for the portion of the Maryland-Washington Regional District lying within Montgomery County (the "Montgomery County District Council"), and forwarded it to the Montgomery County Executive for recommendations and analysis; and

Approved as to

Legal Sufficiency: /s/ Emily Vaias

M-NCPPC Legal Department

MCPB NO. 22-043
M-NCPPC NO. 22-08

WHEREAS, the Montgomery County Executive reviewed and made recommendations on Planning Board Draft of *Corridor Forward: The I-270 Transit Plan* and forwarded those recommendations and analysis to the Montgomery County District Council on March 24, 2022; and

WHEREAS, the Montgomery County District Council held a public hearing on February 15, 2022, wherein testimony was received concerning the Planning Board Draft of *Corridor Forward: The I-270 Transit Plan*; and

WHEREAS, the District Council, on April 5, 2022 approved the Planning Board Draft of *Corridor Forward: The I-270 Transit Plan* subject to the modifications and revisions set forth in District Council Resolution No. 19-1207.

NOW, THEREFORE BE IT RESOLVED, that the Montgomery County Planning Board and The Maryland-National Capital Park and Planning Commission do hereby adopt the said *Corridor Forward: The I-270 Transit Plan*, together with the *General Plan for the Physical Development of the Maryland-Washington Regional District within Montgomery and Prince George's Counties*, as amended, the 2013 *Countywide Transit Corridors Functional Master Plan*, as amended; the 2018 *Master Plan of Highways and Transitways*, as amended; the 1989 *Germantown Master Plan*; 1994 *Clarksburg Master Plan and Hyattstown Special Study Area*, as amended; 2009 *Germantown Employment Area Sector Plan*; 2010 *Great Seneca Science Corridor Master Plan*, as amended; 2014 *10 Mile Creek Area Limited Amendment Clarksburg Master Plan and Hyattstown Special Study Area*; 2016 *Montgomery Village Master Plan*; 2019 *MARC Rail Communities Sector Plan*; and 2021 *Shady Grove Sector Plan Minor Master Plan Amendment* and as approved by the District Council in the attached Resolution No.19-1207; and

BE IT FURTHER RESOLVED, that copies of said *Corridor Forward: The I-270 Transit Plan* must be certified by The Maryland-National Capital Park and Planning Commission and filed with the Clerk of the Circuit Court for both Montgomery and Prince George's Counties, as required by law.

This is to certify that the foregoing is a true and correct copy of Resolution No. 22-043 adopted by the Montgomery County Planning Board of The Maryland-National Capital Park and Planning Commission at its regular meeting held on Thursday, April 28, 2022 in Wheaton, Maryland on motion of Commissioner Rubin, seconded by Vice Chair Verma with a vote of 4-0, Chair Anderson, Vice Chair Verma, Commissioners Cichy, and Rubin, voting in favor of the motion, with Commissioner Patterson being absent.



Casey Anderson, Chair

Montgomery County Planning Board

CERTIFICATION

This is to certify that the foregoing is a true and correct copy of Resolution No. 22-08 adopted by the Maryland-National Capital Park and Planning Commission on motion of Commissioner Geraldo, seconded by Commissioner Rubin, with Chair Anderson, Vice Chair Shapiro, Commissioners Bailey, Cichy, Doerner, Geraldo, Patterson, Rubin, Verma and Washington voting in favor of the motion at its regular meeting held on Wednesday, May 18, 2022 via video-conference, and broadcast by the Montgomery Planning Department.


Asuntha Chiang-Smith Executive Director





CONTENTS

Front Matter

About the Plan	1
Corridor Forward in Context	2
How to Read this Text	2

Chapter 1 – Executive Summary

Plan Recommendations	4
Recommendations Summary	7

Chapter 2 – Premise

Yesterday's Transit Vision Stuck in Today's Gridlock	11
The Purpose and Process of Corridor Forward	12
All Aboard...But To and From Where?	12
Transit Values and Metrics	13

Chapter 3 – Options Inventory

When Everything is a Priority...	15
Initial Menu – Transit Options Inventory	18
Other Modes	19
Curated Menu of Transit Options for Study	19

Chapter 4 – Options Evaluation

The Approach	21
Purple Line Extension	23
Enhanced MARC Rail	23
Frederick Rail Connection	24
Corridor Cities Transitway (CCT)	26
Managed Lanes Enhanced Commuter Bus	27
Red Line Extension	28

Chapter 5 – Plan Recommendations

Near-Term Transit Network	31
Long-Term Transit Vision	43
Supporting Recommendations	48
Regional Opportunities	51

Chapter 6 – Conclusion

Acknowledgments

88

LIST OF TABLES

Table 1	Recommendation Structure	7
Table 2	Summary of Recommendations	8
Table 3	Corridor Forward Goal and Values	14
Table 4	Initial Menu of Transit Options	18
Table 5	Options Evaluation (2045)	22
Table 6	Master Planned CCT Purposes and Barriers	26
Table 7	Near-Term Transit Network Recommendations	32
Table 8	Roadway and Transitway Recommendations	40
Table 9	Advisory Only - Roadway and Transitway Recommendations within Municipal Bounds	42
Table 10	Long-Term Transit Vision Recommendations	44
Table 11	Supporting Recommendations	49
Table 12	Regional Opportunities Recommendations	51

LIST OF FIGURES

Figure 1	Corridor Forward Transit Network	5
Figure 2	Dedicated Bus Lanes Network, including Corridor Connectors	34
Figure 3	Life Sciences Center and Montgomery Village Dedicated Bus Lanes, including Corridor Connectors	35
Figure 4	Germantown and Clarksburg Dedicated Bus Lanes, Including Corridor Connectors	38
Figure 5	Long-Term Vision	47



CENTER

RideOn
extRa

montgomerycountymd.gov/rideon

085726

59 MONTGOMERY
VILLAGE





Photo Credit: Montgomery County
Department of Transportation

FRONT MATTER

ABOUT THE PLAN

Corridor Forward: The I-270 Transit Plan was added to Montgomery Planning's work program at the request of the County Council in spring 2019. The purpose of the Plan is to understand which of the numerous corridor-serving transit options in the public sphere—including those that are master planned, studied by others, or frequently requested—warrant pursuit when funding opportunities become available. Which corridor-serving transit options support equitable access and sustainable growth as well as further the county's economic competitiveness? And which complement each other, creating an efficient, achievable, and appropriately scaled transit network? Some options offer complementary benefits, while others offer redundancy. Some options require significant up-front costs in return for significant benefits, while others offer both modest gains and modest costs. Which should move forward?

Today, the large list of corridor-serving transit options continues to grow, creating a challenge for implementation. The county has master plans that recommend beneficial projects, all of which are in various stages of study or design. As the public waits for these projects to advance, advocates have requested, suggested, and innovated new potential transit options to fill existing gaps. While these new options add to the rich dialogue about what the I-270 corridor's transit-oriented future could be, they also make it more challenging to understand where focus and resources should be directed. Corridor Forward aims to advance transit beyond talk and into action by developing a lasting, achievable transit vision for the I-270 corridor. The Plan employs a **scenario-planning** approach to help decisionmakers understand the different purposes, benefits, constraints, and costs of various transit options; how components of different options can fit together to create a complementary transit network, and the potential order of implementation for the recommended network.

CORRIDOR FORWARD IN CONTEXT

Corridor Forward was added to Montgomery Planning's work program against the backdrop of the State of Maryland's managed lanes highway expansion efforts and increasing development demand for **life sciences** uses in the county's midcounty region. In spring 2019, the Maryland Department of Transportation's State Highway Administration (MDOT SHA) had yet to release its **Draft Environmental Impact Statement (DEIS)** for its I-270 and I-495 Managed Lanes **National Environmental Policy Act (NEPA)** Study, which evaluated the potential to add additional high-occupancy toll lanes on portions of I-495 and I-270 through a **public-private partnership (P3)**. At the time, regional stakeholders wondered if and how transit could be supported by the proposed P3 given that the state had already eliminated various transit options, including heavy rail, light rail, bus rapid transit (BRT), and bus-only managed lanes, from its **Alternatives Analysis (AA)**.

Separately, the **staging provisions** in the 2010 *Great Seneca Science Corridor Master Plan (GSSC Master Plan)* were restricting property owners interested in constructing life sciences uses from moving projects forward. The largest staging hurdle in the 2010 GSSC Master Plan—construction funding for phase one of the **Corridor Cities Transitway (CCT)**—had no funding in the state's FY 2020 **Consolidated Transportation Program (CTP)**, suggesting the state would provide no further financial support for the transit project. The Montgomery County Council reacted by requesting an amendment to the Plan's staging provisions, which resulted in the 2021 *Great Seneca Science Corridor Minor Master Plan Amendment*. Decisions about the CCT, however, were to be informed by Council's review of Corridor Forward, necessitating a comprehensive plan amendment of the GSSC area after Corridor Forward's approval and adoption.

Montgomery Planning initiated Corridor Forward in spring 2020, just as the COVID-19 pandemic emerged. The pandemic, paired with increased financial support for the bio-technology industry, stimulated already strong interest in life sciences development.

Development pressure for life sciences uses increased as bio-technology operations large and small worked to advance pandemic-related ventures. Transit use in the pandemic, however, declined. Many transit-riding employees were either required to or chose to work from home, resulting in reduced ridership and, in turn, service cuts. Reports about individuals impacted by transit service cuts permeated local and national media streams, increasing the public's awareness of just how many individuals—including essential workers—depend on transit.

At the time of this writing, transit operators have begun restoring service, riders are returning, and the state has indicated that the managed lanes project will provide financial support for transit. While reestablishing normalcy may take time, many acknowledge that a return to **business as usual** may not be sufficient for the county based on its goals for economic health, community equity, and environmental resilience. Providing high-quality transit along the I-270 corridor—if paired with the appropriate policies—will better position the I-270 corridor and the county to achieve the county's established policy goals.

The development of Corridor Forward also coincided with an update to the county's general plan, **Thrive Montgomery 2050**, which provides broad policy guidance and a framework for decisions about land use, transportation, and related issues under local government influence. The policies and practices in the Planning Board Draft of Thrive Montgomery 2050 seek to achieve three overarching objectives: economic competitiveness, racial and social equity, and environmental resilience. The policy guidance and overarching objectives of the Planning Board Draft of Thrive Montgomery 2050 informed the development of Corridor Forward.

HOW TO READ THIS TEXT

Items defined in the glossary located within the Plan's appendices are shown in **bold blue typeface** when first mentioned in the Plan.



ONE EXECUTIVE SUMMARY

In 1961, the Washington National Pike, now known as Interstate 270 (I-270), was envisioned as a transit corridor – a vision further embraced by Montgomery County’s 1964 General Plan and reaffirmed through decades of master plans. While many corridor residents and employees use and enjoy existing transit services along the corridor today, a vision to serve the I-270 corridor with transit requires recommitment. Key midcounty and upcounty transit connections need to be established to link the corridor cities of Rockville, Gaithersburg, Germantown, and Clarksburg to the county’s high-quality transit network. Transit access to neighboring Frederick and Fairfax counties could also be improved to be more frequent, direct, and competitive.

Policymakers and the public have offered numerous transit options that could satisfy these needs, but with so many options to consider, there is no shared

perspective about which potential transit projects have the most merit and where to focus resources. Planned concepts, like the Corridor Cities Transitway (CCT), have partially advanced without full investment by stakeholders and funding partners, inviting the opportunity for numerous adjustments, revisions, and delays. Additionally, the county’s historical growth policies, which prioritized automobile travel, have ensured convenience for drivers, but have overshadowed the implementation of high-quality transit. While most stakeholders agree that serving the I-270 corridor with transit is a priority, it is unclear what this means or how it will be achieved.

In response, *Corridor Forward: The I-270 Transit Plan* offers a refocused vision for the corridor. It proposes a transit network, which includes near-term recommendations for **dedicated bus lanes** and long-term recommendations

for an extension of Metrorail's Red Line and enhancements to MARC commuter rail along the Brunswick Line. The near-term network of dedicated bus lanes, referred to as the Corridor Connectors, builds on existing master-planned projects, including the MD 355 and Veirs Mill Road Bus Rapid Transit (BRT) projects, to create a transit network that serves communities and employment centers along the I-270 corridor.

The transit network was determined through an iterative planning process, which began with the identification of general stakeholder values and priorities pertaining to transit, as well as an inventory and initial evaluation of potential transit options. Next, metrics were developed to consider the cumulative benefits, costs, and risks of six compelling transit options retained for detailed analysis. Based on performance, implementation, and policy considerations, components of the six transit options were combined and subsequently evaluated to develop the transit network.

PLAN RECOMMENDATIONS

The Plan recommendations are organized into four groups: Near-Term Transit Network, Long-Term Transit Vision, Supporting Recommendations, and Regional Opportunities.

Near-Term Transit Network

This Plan recommends the MD 355 BRT and Veirs Mill Road BRT projects as the most crucial first steps in improving transit accessibility along the I-270 corridor. Following implementation of these services, the Plan recommends new dedicated bus lanes, referred to as the Corridor Connectors, to connect key activity and employment centers to the county's primary north-south rapid transit lines, as well as Metrorail and the MARC Rail Brunswick Line.

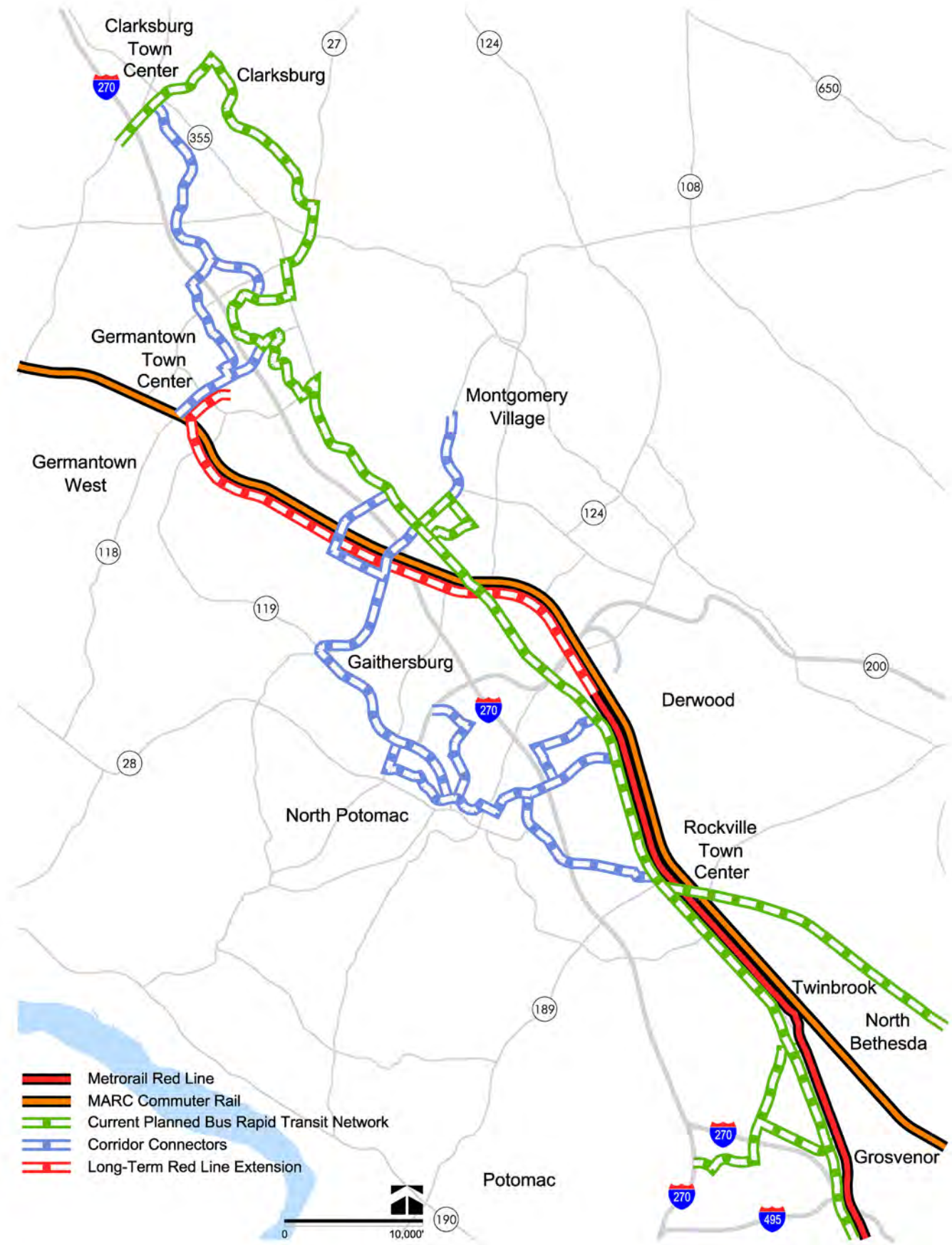
The transit network, with additional dedicated bus lanes beyond the MD 355 and Veirs Mill Road BRT services, is shown in Figure 1. This network augments the planned BRT routes in midcounty and upcounty to maximize connectivity, reduce implementation obstacles, and unlock multiple community-serving **service patterns**. The transit network's dedicated bus

lanes can serve as individual dedicated bus lanes (if implemented in a piecemeal fashion following the MD 355 and Veirs Mill Road BRT projects) and as a network, providing significantly improved transit connectivity for communities in the midcounty and upcounty once they are fully constructed. Corridor Forward shifts the focus from single branded services, like the CCT, to a flexible network of Corridor Connectors—dedicated bus lanes that can support multiple routing patterns. Dedicated bus lanes do not need to be restricted to a single purpose or route, and the county does not need to wait to fund the full system to advance components of the Corridor Connectors. The Corridor Connectors are listed below:

- The Rockville Connector
- The Life Sciences Connector
- The Crown Connector
- The Great Seneca Connector
- The Lakeforest/Montgomery Village Connector
- The Germantown Connector
- The Manekin West Connector
- The Milestone/COMSAT East Clarksburg Connector

The Plan supports the implementation of the Great Seneca Transit Network, prioritizing investments that increase frequencies and provide meaningful travel time benefits for transit users. This network, proposed by the Montgomery County Department of Transportation (MCDOT), envisions a series of new local bus routes serving the Great Seneca vicinity. These routes are enhanced with operational improvements such as transit signal priority, queue jumps, and express bus lanes. In addition, the Corridor Connectors can be used by commuter bus services to support off-highway diversions to key points of demand. In this regard, the infrastructure becomes multifunctional. Also, while not studied extensively in this Plan, the recommendations include continued support for the North Bethesda Transitway.

Figure 1 – Corridor Forward Transit Network



Long-Term Transit Vision

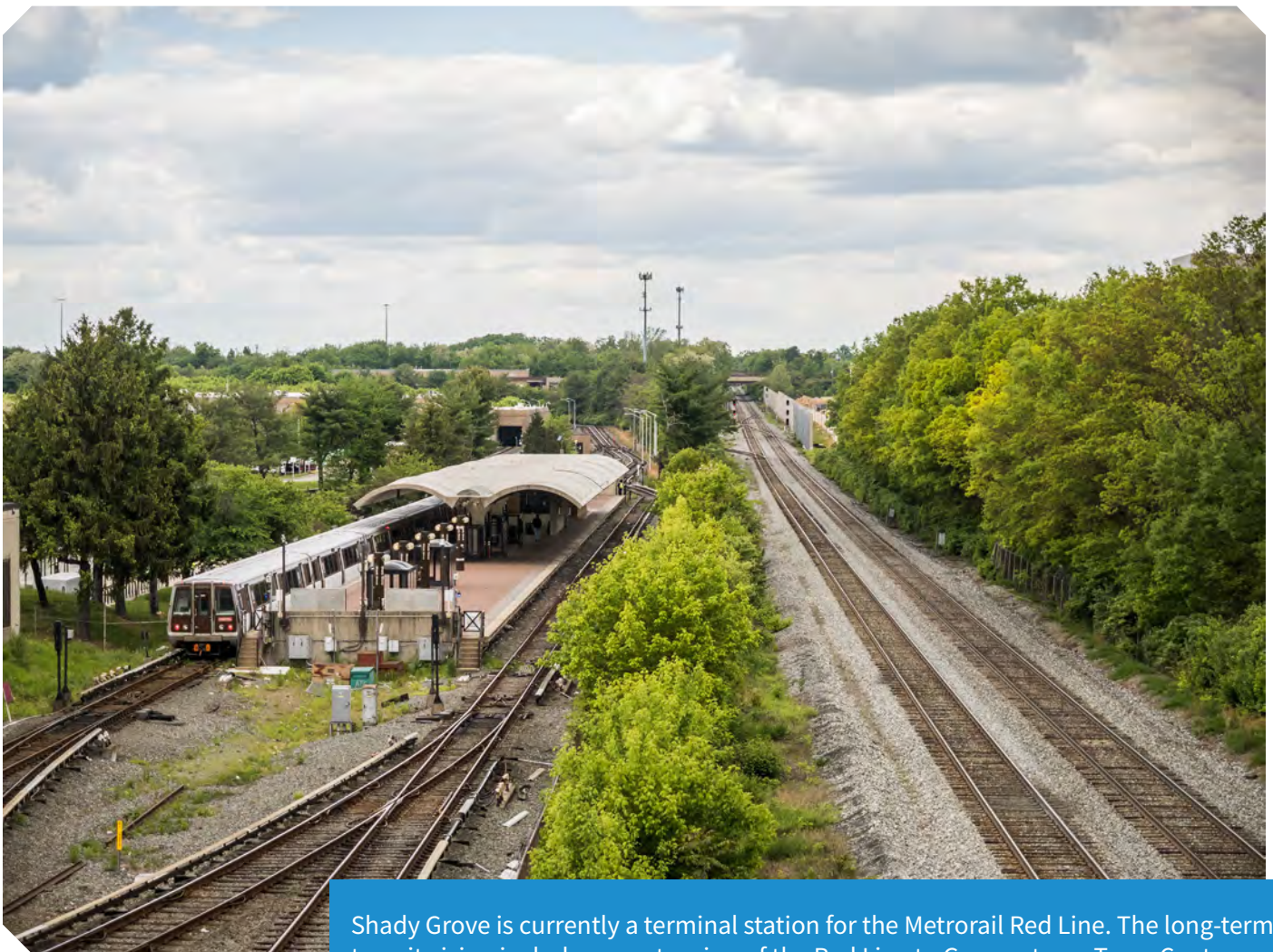
In addition to the Near-Term Transit Network, the Plan also includes recommendations for a long-term extension of the Washington Metropolitan Area Transit Authority's (WMATA) Metrorail Red Line to Germantown Town Center and enhancements to the Maryland Area Regional Commuter (MARC) Brunswick Line. These long-term transit investments are ambitious due to the additional detailed analyses required, the magnitude of coordination, and existing WMATA and MARC priority projects. For example, the work that must be done within the core of the existing Metrorail system must be addressed prior to advancing an extension of the Red Line.

Supporting Recommendations

Beyond the transit network itself, Corridor Forward offers additional recommendations that support the transit network and strengthen local and regional transit connectivity.

Regional Opportunities

The Plan includes recommendations that focus on connections to adjacent jurisdictions, such as Frederick County and Fairfax County, Virginia. Recommendations include studying an extension of the Purple Line west of Bethesda, designing the American Legion Bridge to support rail transit, and exploring a direct transitway connection to Frederick City.



Shady Grove is currently a terminal station for the Metrorail Red Line. The long-term transit vision includes an extension of the Red Line to Germantown Town Center.



RECOMMENDATIONS SUMMARY

County actions, included in Chapter 5, accompany each of these recommendations, which are organized by category and champion—meaning which jurisdiction(s) would likely take the lead on advancing a recommendation given the anticipated benefits. As shown in Table 1, champions to advance recommendations include both Montgomery County as well as multiple stakeholders within the region. Table 2 provides the complete set of recommendations

that strengthen the network and support regional connectivity.

Advancing the I-270 corridor’s transit future is possible. Renewing the county’s commitment to transit will require embracing policy trade-offs that ensure our transit investments result in efficient and competitive service. If the county intends to achieve its economic, equity, and climate goals, priorities must be clear and intentional.

Table 1 – Recommendation Structure




Champion	
Montgomery County	Shared by County and Others
	
Montgomery County government is the lead agency responsible for advancing a recommendation, and the county’s constituents stand the most to gain from a recommendation’s advancement.	Multiple parties within the region, including Montgomery County government, are necessary to advance a recommendation. Benefits are relatively distributed across various regional stakeholders.



Constructing the MD 355 BRT is a top priority for Montgomery County.

Table 2 – Summary of Recommendations ^{1,2}

Near-Term Transit Network	Champion
A. Implement the MD 355 BRT and Veirs Mill Road BRT projects.	
B. Implement the Corridor Connectors, a network of dedicated bus lanes in the midcounty and upcounty, which include refinements to the Corridor Cities Transitway.	
C. Support the Great Seneca Transit Network.	
D. Support the North Bethesda Transitway alignment as master-planned.	
E. Continue state-provided commuter bus service on I-270, making use of the Corridor Connectors when diverting to bus stations in Montgomery County's population and employment centers via the Corridor Connectors.	
Long-Term Transit Vision	Champion
F. Work with local, state, and regional partners to advance the recommendation for a Red Line Extension to Germantown Town Center.	
G. Support the long-term potential of the Maryland Transit Administration MARC Rail Brunswick Line.	
H. Promote strategic and equitable MARC Rail access by supporting new stations.	
Supporting Recommendations	Champion
I. Convert existing general-purpose travel lanes to dedicated transit lanes on targeted streets to maximize person throughput and improve the relative travel time competitiveness and convenience of transit, including—but not limited to—the streets detailed in the right-of-way table.	
J. Prioritize the provision of dedicated transit lanes and spaces for walking, bicycling and other micromobility modes over auto capacity to maximize person throughput and improve the relative travel time competitiveness and convenience of transit.	

Supporting Recommendations	Champion
K. Develop a multimodal transit hub within the vicinity of Metropolitan Grove as part of implementation of the Red Line Extension to serve local bus, BRT, Metrorail, and MARC services.	
L. Ensure safe and efficient access to planned transit stops for pedestrians, bicyclists, and other micromobility modes.	
M. Update relevant land use plans and guidelines to support master-planned transit facilities.	
N. Where beneficial and/or necessary, support the incremental implementation of dedicated bus lanes.	
O. Maximize the travel potential of dedicated bus lanes.	
Regional Opportunities	Champion
P. Study extensions of the Purple Line to understand if and where extension(s) of the county's light rail service may be warranted.	
Q. Design and construct the American Legion Bridge to support rail transit.	
R. Explore a direct transitway connection between the recommended WMATA Metrorail Red Line terminus and Frederick City.	

¹The order of the recommendations presented in the table is not intended to suggest a rank of importance.

²Some recommendations contained in this Plan could require inter-jurisdictional cooperation, as the boundaries of that portion of the Regional District within Montgomery County are prescribed in the Land Use Article of the Annotated Code of Maryland.



Photo Credit: Montgomery County
Department of Transportation



TWO PREMISE

YESTERDAY'S TRANSIT VISION STUCK IN TODAY'S GRIDLOCK

In 1961, the National Capital Planning Commission and the National Capital Regional Planning Commission jointly released *A Policies Plan for the Year 2000*. To avoid urban sprawl, the document proposed a “concert of policies” for the capital region that focused growth along radial corridors extending from Washington, DC. In support of this vision, the document offered two specific transportation policies:

- Limit expansions of the freeway system beyond what was planned; and
- Promote greater reliance on transit.

Montgomery County embraced the vision of the 1961 *A Policies Plan for the Year 2000* and adopted the 1964 Wedges and Corridors Plan, to establish development

policies that aligned with the regional planning framework, specifically focusing growth within new corridor cities supported by rapid transit. The vision for corridor-focused, transit-oriented development has endured in subsequently adopted master plans, sector plans, and functional plans, and was reaffirmed in the Planning Board Draft of Thrive Montgomery 2050. These plans were successful in directing growth and development to the corridor cities, including Rockville, Gaithersburg, Germantown, and Clarksburg, but the transit vision of these plans has yet not been fully achieved.

Today, corridor residents and employees traveling between various points of demand in Montgomery County, Frederick County, Northern Virginia, and Washington, DC, enjoy access to the WMATA Metrorail system, which is one of the nation’s premier

urban transportation systems, as well as the MARC Commuter Rail Brunswick Line, which leverages private infrastructure to improve public accessibility for the region primarily during the rush hour. Residents and employees also enjoy access to established regional and local bus services provided by WMATA, the Maryland Transit Administration (MTA), and Montgomery County's Ride On.

While constructing and operating these services is no small feat, the Wedges and Corridors Plan recommended connecting its planned corridor cities by a large high-frequency rapid transit network separated from traffic. But today, the MARC Brunswick Line mainly provides rush hour service to Gaithersburg and Germantown, and high-frequency, premium transit service provided by WMATA's Metrorail terminates midcounty at Shady Grove. While rapid transit connections to Clarksburg are planned, they are not yet implemented. Transit connectivity among the corridor cities and neighboring jurisdictions is limited and inefficient.

The long-planned transit vision for the I-270 corridor remains relevant, but it is stuck in gridlock. The I-270 corridor experiences more than twice as many automobile commuters every morning compared to transit riders, and traffic congestion on our roadway network has—and continues to—intensify. Jobs located within the I-270 corridor's **activity centers** are, on average, 80 percent more accessible by car than by transit, assuming a 45-minute commute.

There is no single reason that the county's transit infrastructure did not keep pace with its physical growth, but stakeholder and public coordination during the development of Corridor Forward illuminated two key themes, addressed in various chapters and recommendations of the Plan:

- There are many corridor-serving transit options in the public sphere, but to date, there is no consensus about which combination of options has the greatest merit, making it challenging to effectively focus resources and planning. This topic is addressed in Chapters 3 and 4.

- The corridor is in need of a clear strategic vision. In addition, planned concepts are often advanced without strategic or flexible implementation strategies, inviting opportunities for perpetual tweaks and reenvisioning. This topic is addressed in Chapter 5.

THE PURPOSE AND PROCESS OF CORRIDOR FORWARD

Corridor Forward addresses these themes by:

- Inventorying various corridor-serving transit options circulating in the public sphere;
- Narrowing the larger menu of options to six transit options retained for detailed analysis;
- Comparing the combined benefits, challenges, and risks of the retained transit options;
- Recommending a transit infrastructure network based on strategic, financial, economic, and implementation performance as well as policy considerations;
- Supporting a recommendation for a new long-term transit option with significant merit; and
- Developing strategies for implementation.

Corridor Forward also offers recommendations that support the transit network and strengthen the potential for future cooperation with neighboring jurisdictions.

ALL ABOARD... BUT TO AND FROM WHERE?

Spanning from Frederick County to Fairfax County, the I-270 corridor serves a range of trips. While approximately 61 percent of Montgomery County residents work within Montgomery County itself, many Montgomery County residents travel to Washington, DC, and other locations across the region, such as Prince George's County, Fairfax County and Arlington County.

People traveling along the corridor typically do not travel directly from end to end. In fact, only four percent of commuters from Frederick County commute to Fairfax County, and less than one percent of commuters from Fairfax County commute to Frederick County.

Simply put, there is not significant **travel demand** for trips between the perceived “ends” of the corridor. Most travelers are moving to and from corridor communities and employment centers that are less distant. For example, a greater number of afternoon **peak hour trips** are made between Frederick County and Germantown (approximately 4,000) than Frederick County and Bethesda/Chevy Chase (approximately 1,000). For this reason, the Plan identifies key potential service areas where corridor communities could be better integrated into and supported by the county’s planned and existing high-quality transit network:

1. Upcounty and points north, including Germantown, Clarksburg, and Frederick County
2. The heart of midcounty, including Montgomery Village, Great Seneca, and Gaithersburg
3. Northern Virginia, including Tysons

This chapter inventories local and regionally-oriented transit options that serve these three areas—which have different geographic spans, characteristics, and needs.

In addition, this chapter justifies why a comparative analysis is appropriate despite these areas’ differing characteristics and needs.

TRANSIT VALUES AND METRICS

The Corridor Forward planning process included the identification of stakeholders’ values and priorities pertaining to transit, which were used to develop metrics that highlight the benefits and drawbacks associated with different transit options. Corridor Forward solicited feedback on values and priorities from various agencies, jurisdictions, stakeholders, and the community through meetings and a Transit Values Questionnaire, which was widely advertised and promoted (more information is provided in the Plan’s Community Outreach Appendix). This feedback, paired with values identified through the outreach and engagement process for Thrive Montgomery 2050, resulted in a single Plan goal that reaffirms the values of the county’s general plan update effort, shown in Table 3.



Table 3 – Corridor Forward Goal and Values

CORRIDOR FORWARD GOAL	Advance a transit network that:
Strategic Connections	Serves high-demand origin and destination pairs, balancing the costs of implementation with projected benefits. Transit should serve existing and future mobility needs, providing a safe, comfortable, and convenient transportation option for people traveling to work or school, running errands, or making other types of trips. While many transit options may be attractive, one must consider what may be feasible given financial, political, and geographic constraints.
Economic Health	Enables existing development and master-planned communities to realize their potential as livable and economically vibrant places. To stay economically competitive in the region, Montgomery County needs to ensure it provides accessible, high-quality transit to all residents and to people commuting within and to Montgomery County.
Community Equity	Aligns with the county’s social equity goals and principles. Transit provides mobility options for those who may not be able to afford a personal vehicle, ride-hailing services, or anticipated autonomous subscription-based mobility services. Transit can and should serve all populations—not just the privileged.
Environmental Resilience	Operates sustainably and reduces negative environmental impacts. Montgomery County aims to reduce greenhouse gas emissions 80 percent by 2027 and 100 percent by 2035. Transportation plays a critical role in achieving this environmental goal with transportation-related emissions currently accounting for over 40 percent of the greenhouse gas emissions in Montgomery County. All things being equal (i.e., assuming energy is generated by the same source and transit and personal vehicles are serving the same number of passengers), transit is a more sustainable, less energy-intensive transportation mode that can help the county meet its environmental goals.

Beyond the values encompassed by the Plan’s broad goal, implementation and practical costs were reoccurring themes among stakeholders and the public. With consultant support, Montgomery Planning developed a series of metrics to capture both strategic values-based benefits and practical considerations. The complete list of comparative metrics depicts a holistic picture of planning-level costs, benefits, and risks across four dimensions:

- **Strategic Dimension:** How does an option or network scenario broadly support county and regional policies and goals, including the values addressed in Corridor Forward’s goal? *Example metrics: increase in job access for **Equity Focus Area** communities; reduction in greenhouse gas emissions; new systemwide transit trips.*
- **Financial Dimension:** What are the financial impacts of each corridor option and network scenario? *Example metrics: capital and operating costs based on national benchmarks; planning-level land acquisition costs.*
- **Economic Dimension:** What is the societal value of each option and network scenario? *Example metrics: monetized value of reduced collisions and improved health.*
- **Implementation Dimension:** What risks are associated with the delivery and operations of each option and network scenario? *Example metrics: operating model risks and potential historic and environmental impact risks.*



THREE OPTIONS INVENTORY

WHEN EVERYTHING IS A PRIORITY...

Several corridor-serving transit options have emerged over the years, each with its own merit, spanning various geographic extents and fulfilling different needs. For example, enhanced MARC Brunswick Line service supports several communities between Frederick and Washington, DC, while the Corridor Cities Transitway (CCT) serves more targeted midcounty and upcounty geographies. Because there is no single planned service that can meet all existing and future needs, it is important to consider the benefits, costs, and risks of each option to inform county priorities.

Some may suggest that evaluating transit options serving different markets is an exercise with little value, as doing so does not yield a direct comparison: “It is simply comparing apples and oranges.” But there are occasions when one peers into the fruit basket only to be greeted by apples and oranges, each vying for attention, and a choice needs to be made about where to take the first bite.

Also, if each transit option can significantly improve corridor access and livability, why not simply recommend them all? This approach is not advisable for several reasons. First, it is not financially realistic to expect that the public sector can construct and operate every option inventoried. Recommendations in county functional plans also have the weight of policy intent. Recommending transit options that would garner minimal implementation interest following Plan approval could degrade public faith in long-range planning. Next, some options include overlapping service areas. While some redundancy can be beneficial for reliability purposes, too much redundancy is an inefficient use of limited resources. Finally—and perhaps most importantly—the overall benefits of some options may exceed others. Prioritizing and recommending the best options helps focus limited time, energy, and resources.

Montgomery Planning developed an initial menu of transit options in the public sphere and performed a preliminary **off-model** assessment of these options to identify candidates that warranted more detailed analyses. A description of that assessment can be found under the *Curated Menu of Transit Options for Study* section. The Plan's initial menu of transit options is

summarized in Table 4 and described in greater detail in the Plan's Appendix. The Plan's Appendix (Appendix 2 – Options & Pre-Screening Analysis) also contains supplementary information about the characteristics of associated transit **modes**, which are briefly defined below.

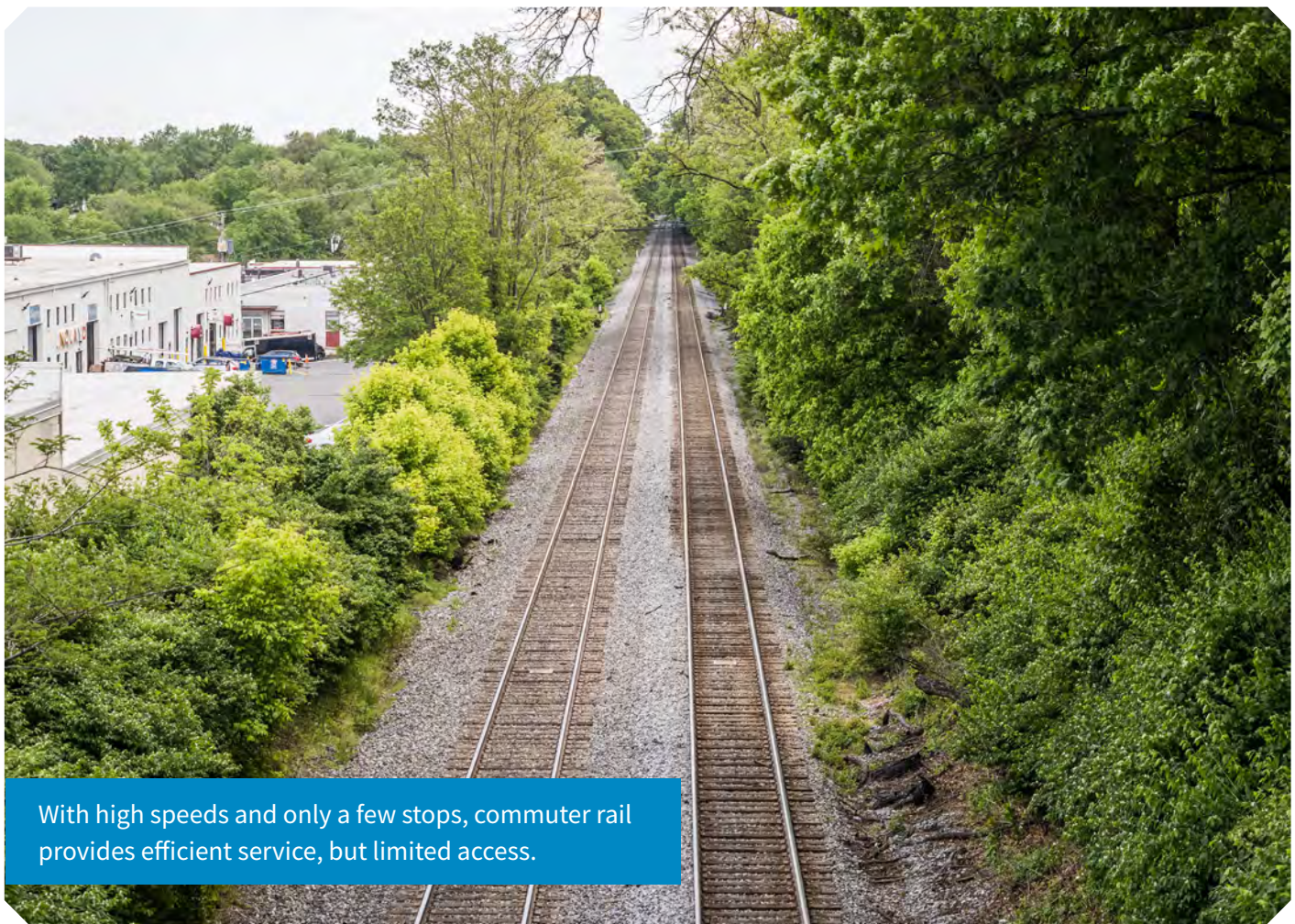
TRANSIT MODES SUMMARY

- **Bus Rapid Transit:** a bus that primarily travels in dedicated lanes or guideways, which allow the bus to run uninhibited by traffic; additional amenities can include at-grade boarding, off-board fare collection, and distinct high-quality infrastructure and branding.
- **Commuter Rail:** a passenger train service that connects centralized points of demand with outlying areas; other typical characteristics include station-to-station based fares, greater distances between stops, and the potential to purchase multiple trips as a package.
- **Metrorail:** an electric rail passenger service typically used to support high volumes in urban areas; other typical characteristics include high-platform loading, high frequencies of service, and higher acceleration speeds compared to other modes.
- **Light Rail Transit:** an electric passenger train service used to support greater separation between stops than Metrorail but closer separation than commuter rail; other characteristics include the ability operate at grade on-street or off-street (although service is segregated from other traffic).
- **Monorail:** an electric vehicle passenger service running on a single beam or guideway that is typically elevated on columns; other typical characteristics include high frequencies, and in the U.S., shorter spans of operation.
- **Commuter Bus:** a regional bus service that primarily supports connections between outlying areas and centralized points of demand; other typical characteristics include limited stops, significant distances between stops, and the ability to purchase multiple trips as a package.
- **Local Bus:** a bus service operating on fixed routes and schedules. There are many stops to serve local residents, and the buses follow circuitous routes between rail stations to serve as many neighborhoods and employment centers as possible.

Each of the modes listed on the previous page, has a role to play in serving a hierarchy of mobility needs. This hierarchy is defined by two concepts:

- **Access-efficiency:** Some modes typically provide frequent and closely spaced stops, while others offer more limited stop opportunities. Modes that typically provide a significant number of stops offer greater accessibility to riders by providing more opportunities for convenient boardings and alightings at points of demand. Modes that limit stops to only the most significant points of demand provide greater efficiency to riders by reducing travel times.
- **Geographic coverage:** Some modes typically provide longer distance services, traversing regions rather than localities. Other modes provide more locally-focused service.

At one extreme, modes like commuter rail tend to span greater distances, have fewer stops, and can sometimes depend on first- and last-mile supplementary services like local bus transit or park and ride. Modes like commuter bus are similar but offer the flexibility to accommodate better access (i.e., a greater number of stops), typically near initial or terminal points of demand; however, these buses typically do not have the advantage of running in dedicated service and are thus less efficient. On the other extreme, local buses typically provide a greater number of stops (i.e., more access) but are less efficient. This mode typically follows shorter routing patterns. Metrorail and BRT modes fall in the middle of the access-efficiency and geographic coverage spectrums. In the United States, monorail and light rail systems tend to balance access and efficiency and provide more urban-oriented service; however, beyond the United States these modes have been employed in regional contexts as well.



With high speeds and only a few stops, commuter rail provides efficient service, but limited access.

INITIAL MENU – TRANSIT OPTIONS INVENTORY

Table 4 summarizes the options inventoried by Corridor Forward. For additional context on these options, please refer to the Plan's Appendix.

Table 4 – Initial Menu of Transit Options

Option Name	Mode	Primary/General Corridor Alignment	Service Type	From (North)	To (South)	Notes
MD 355 BRT	Bus Rapid Transit	MD 355, with Snowden Farm alignment north of Germantown	Local	Clarksburg	Bethesda	Assumed as constructed in all Plan technical work
Veirs Mill Road BRT	Bus Rapid Transit	Veirs Mill Road	Local	Rockville Town Center	Wheaton	Assumed as constructed in all Plan technical work
North Bethesda Transitway	Bus Rapid Transit	MD 187 or Tuckerman Lane/Rock Spring Drive	Local	White Flint or Grosvenor	Rock Spring	Master-planned, but not assumed as constructed in any Plan technical work ¹
Tysons-Rock Spring North Bethesda Transitway Extension	Bus Rapid Transit	Old Georgetown Road & I-495 /American Legion Bridge	Local-Regional Hybrid	Rock Spring	Tysons	Could potentially operate as a service leg of the North Bethesda Transitway
Corridor Cities Transitway Phase 1 & 2	Bus Rapid Transit	Great Seneca/ Germantown/ Clarksburg Roadways	Local	Clarksburg	Shady Grove	Included as designed in the MTA 2017 Environmental Assessment (EA)
Enhanced MARC Rail	Commuter Rail	CSX Rail Corridor	Regional	Frederick/ Martinsburg	Union Station	15-minute headways during rush hour and additional stop locations at White Flint and Shady Grove
Red Line Extension	Metrorail	CSX Rail Corridor	Limited Stop Local Service	Germantown Town Center	Shady Grove	Service frequencies assumed to match existing levels
Purple Line Extension	Light Rail Transit	Capital Crescent Trail/River Road/I-495/ American Legion Bridge	Regional	Bethesda Station	Tysons	Service frequencies assumed to match planned levels
I-270 Light Rail	Light Rail Transit	I-270	Regional	Gaithersburg	Bethesda	Could potentially connect to Purple Line infrastructure
Frederick Rail Connection	Monorail/ Light Rail	I-270	Regional	Downtown Frederick Vicinity	Shady Grove	Assumes MDOT Monorail Feasibility Study alignment
Managed Lanes Enhanced Commuter Bus	Enhanced Commuter Bus	I-270 & I-495	Regional	Downtown Frederick Vicinity	Silver Spring; Downtown Bethesda; or Tysons	Includes three variants with different southern termini

¹ Similar to the Corridor Cities Transitway, the North Bethesda Transitway is in the National Capital Region Transportation Planning Board's (TPB) Constrained Long-Range Plan, but it was not included as background in any Plan technical work because an associated extension was under consideration for isolated detailed analysis. Ultimately, the extension option was not retained for detailed analysis and the North Bethesda Transitway was not included in the Plan's technical work.

OTHER MODES

During the Plan’s development, stakeholders requested an examination of maglev and Personal Rapid Transit (PRT) technologies. Maglev trains—or magnetic levitation trains—use magnetic force for propulsion. These trains can run as monorails or can run on two rails. Currently, the top speed of an operating maglev train is approximately 270 miles per hour. The high speeds and costs associated with maglev suggest it is most appropriate for limited-stop service between locations with significant housing and employment density. As of this writing, there are no maglev trains operating in the United States and the Federal Railroad Administration (FRA) has paused its review of a proposal to connect Washington, DC and Baltimore by maglev with one intermediary stop at Baltimore-Washington International Airport.

PRT cars, sometimes referred to as pods, are driverless vehicles that run on a series of dedicated guideways—either rail beams, rail tracks, or separated roadways. Existing systems typically seat between three and six passengers per vehicle, although the oldest—and only—PRT system in the United States located in Morgantown, WV can seat up to 20 passengers per car. While PRT systems feature defined stations like other forms of transit, they generally offer point-to-point services without intermediary stops.

Should these two modes be of interest to future Planning Boards and Councils, specialized expertise will be needed to assess the viability of these systems, their benefits, their costs, and their typical applications. As stated, the premise of Corridor Forward is to inventory and prioritize *existing* options in the public sphere, including modes that exist in county-approved plans, modes considered in ongoing work by Montgomery County and the State of Maryland, and modes that have been widely and successfully implemented in transit systems across the nation.

CURATED MENU OF TRANSIT OPTIONS FOR STUDY

Corridor Forward employed a **pre-screening** analysis to identify and advance six options from the initial menu for more detailed analysis. The pre-screening method posed five questions that could be answered with off-model tools and data to assess each option’s potential at a preliminary level:

- Are travel times between key destinations served by the option competitive with driving and other transit modes?
- How many people will have walking, transit, or driving access to the option’s conceptual station locations?
- How many jobs are located within walking distance or transfer transit trip from the option’s preliminary stations?
- Does the option serve planned growth?
- Are the option’s proposed stations accessible by walking, transit, or driving access to county communities that have recognized equity needs?

Generally, the rail options performed better in the pre-screening analysis at providing competitive travel times and the two “Bethesda to Tysons” options (Purple Line Extension and Managed Lanes Commuter Bus) performed poorly regarding serving communities with a greater need for equitable access to transit and jobs. To account for differences in geographic span, the pre-screening analysis identified top performing options across varying degrees of quality and geographic coverage to provide a refined menu. The top performing options advanced for further analysis were:

- Enhanced MARC Rail Service
- Red Line Extension
- Corridor Cities Transitway
- Purple Line Extension
- Frederick Rail Connection
- Managed Lanes Enhanced Commuter Bus (Tysons Terminus)

Corridor Forward recognizes that the MD 355 BRT and Veirs Mill Road BRT projects are high priority projects and recommends these projects be implemented as soon as possible. For this reason, Corridor Forward assumes both projects are constructed and existing in the Plan's detailed analysis.

Two services to Tysons were eliminated from the initial menu: North Bethesda Transitway Extension and I-270 Light Rail. The latter option included segments that overlap both existing WMATA Metrorail Red Line and MARC Rail service and performed poorly in

pre-screening due to these redundancies. The Tysons-Rock Spring North Bethesda Transitway Extension option was outperformed slightly by the Purple Line Extension and significantly by the highway-running Managed Lanes Enhanced Commuter Bus option, which serves more communities. As such, it did not advance. The North Bethesda Transitway did not advance as Montgomery Planning did not envision changes to the service. While it was not included as background in the Plan's technical work, the Plan supports the North Bethesda Transitway as master-planned (discussed further in Chapter 5).





FOUR OPTIONS EVALUATION

This chapter provides information and insight regarding the performance of the six options that advanced for further technical analysis.

THE APPROACH

Montgomery Planning evaluated the six retained transit options—which in some cases serve differing extents and travel markets—using a series of strategic, financial, economic, and implementation performance metrics to help stakeholders understand each option’s potential. Modeling tools tested the options’ performance in both 2015 and 2045 and tested how the options may or

may not impact planned population and employment growth. Several strategic dimension performance metrics—transit trips, vehicle miles traveled (VMT), employment access, and population access—feed the calculations of other metrics, including emissions.

Table 5 compares each option’s performance relative to other studied options. The remainder of the chapter discusses these options and their performance in greater detail. Raw data values, supplemental metrics, and the methodological approaches used to obtain values can be found in the Plan’s appendices.

Table 5 – Options Evaluation (2045)

2024 Forecast Year Key Metrics	Purple Line Extension	Enhanced MARC Rail	Frederick Rail Connection	Corridor Cities Transitway (CCT)	Managed Lanes Enhanced Commuter Bus	Red Line Extension
Increase in Regional Transit Trips						
Increase in Montgomery County Transit Trips						
Increase in Regional Transit Mode Share						
Increase in County Transit Mode Share						
Decrease in Daily Regional Vehicle Miles Traveled						
Total Jobs Accessible within 45 Minutes by Transit						
Total Jobs Accessible within 45 Minutes by Transit from Equity Focus Areas						
Change in Jobs Filled Adjacent to the Evaluated Transit Service						
Change in Population Adjacent to the Evaluated Transit Service						

Very Poor Relative Performance	Poor Relative Performance	Neutral Relative Performance	Strong Relative Performance	Very Strong Relative Performance

PURPLE LINE EXTENSION

The Plan's studied Purple Line Extension alignment connects Bethesda and Tysons, VA, with intermediary stops at Westbard, River Road and MD 188 (Wilson Lane), and the McLean Metrorail Station. The alignment offers a 22-minute ride between Bethesda and the proposed Tysons terminus yielding a more competitive ride than WMATA's Metrorail system, which offers connectivity via Washington, DC, at the cost of a 70-minute ride. While the option is forecast to add approximately 5,500 new daily regional transit trips, just under 28 percent of this forecasted ridership growth is allocated to Montgomery County.

The evaluated extension's alignment reduces anticipated 2045 VMT by approximately 31,000 daily vehicle miles (.02 percent of regional travel) and neither traverses nor serves any of the county's Equity Focus Areas, rendering its overall benefits—as defined by the Plan's values—less attractive. Access between Tysons and Prince George's County is provided, in some cases more directly, by WMATA's Metrorail system.

Other alignments for a Purple Line extension—for example, one that travels along Old Georgetown Road to Rock Spring via the National Institutes of Health, Suburban Hospital, and Montgomery Mall—might yield greater benefits.



The American Legion Bridge connects Montgomery County to northern Virginia.

ENHANCED MARC RAIL

Today, the MARC Rail Brunswick Line functions as an important commuter rail transit service extending through the corridor to its Washington, DC, terminus at Union Station. The service provides 21-minute **peak hour headways** on average, but only provides rush-hour service during most of the week and only in the peak direction of commuting (towards Washington, DC, in the morning, and away from Washington, DC, in the afternoon). In other words, passengers cannot take the train in a northbound direction during mornings, and they cannot take the train in a southbound direction during the evening. MARC provides limited midday

service in the northbound direction on Fridays, but otherwise, there are no trains that run beyond typical commute hours.

The Enhanced MARC Rail Service option studied through Corridor Forward illustrates the increased potential of the line; reducing headways to 15 minutes, implementing reverse commute service, and adding midday service. The option is forecast to increase the number of regional transit trips by approximately 3,100 daily trips in 2045. About 52 percent of these new transit trips occur within Montgomery County.

The studied enhancements attract riders in Frederick County primarily near Point of Rocks and Brunswick,

but the service is less successful at attracting riders in the City of Frederick, likely due to the line's indirect alignment. Travelers from the City of Frederick must travel west to Point of Rocks, only to travel east again to reach southern points in the corridor, including Germantown, Gaithersburg, Rockville, and Washington, DC.

Corridor Forward studied a scenario that implements master planned MARC Rail stations at Shady Grove and White Flint. Assuming these stations provide service for local and express MARC Rail service patterns, they are anticipated to significantly outperform nearby stations in areas that will remain lower in density. Additionally, county land use plans call for densification around these stations. To the north, stations in the county's Agricultural Reserve are anticipated to have only modest ridership growth. The lower comparative ridership performance of northern stations within the county's Agricultural Reserve points to a policy trade-off between the county's intent to maintain modest densities in rural areas near existing rail infrastructure and maximizing the potential of an existing service. Locations with other forms of transit service—Shady Grove, Rockville, Silver Spring, and Union Station—yield the largest projected increase in daily boardings, while modest increases are forecast for Germantown, Metropolitan Grove, and Gaithersburg.

FREDERICK RAIL CONNECTION

As discussed above, the MARC Rail Brunswick Line offers Frederick County and the City of Frederick connections to Montgomery County; Washington, DC; and WMATA's Metrorail Red Line. However, its alignment is inefficient. Corridor Forward explored a more direct rail connection—either monorail or light rail—between Shady Grove and the City of Frederick via Urbana, Clarksburg, Germantown, and Metropolitan Grove. The Plan integrated the Maryland Department of Transportation's **Monorail Feasibility Study** alignment and modeling assumptions into its technical work.

In 2045, about 56 percent of new transit trips generated by the option are estimated to originate

in Frederick. From a pure ridership perspective, the higher performance of Montgomery County's stations is attributable to the combination of trips that originate in Frederick and travel to Montgomery with trips made solely within Montgomery County. The studied Germantown station is forecast to provide service to 3,500 daily riders, suggesting Germantown represents both where people live and work.

A new rail connection to Frederick shifts riders from other transit services. In 2045, modeling results suggest that 9,600 forecast transit trips that would have otherwise used the MARC Rail Brunswick Line, a bus service, or a combination of Metrorail and a bus service, will instead use the new rail connection. The option generates 8,300 new Metrorail trips—and only about 3,600 of these trips have initial origins in the county, meaning the option enjoys success if its primary purpose involves improving network connectivity for communities north of Montgomery County.

Both the new Frederick Rail Connection and an extension of the Red Line (discussed below) reduce 2045 vehicle miles traveled (VMT) by approximately 160,000 miles, positioning these two services as the best candidates to reduce roadway travel; however, while over 80 percent of the Red Line's VMT reduction would occur in Montgomery County, the Frederick Rail Connection would have about half of its VMT reduction outside the county, primarily in Frederick County. When modeled using today's development and roadway network under present day conditions, the Red Line Extension does a better job of reducing vehicle miles traveled than the Frederick Rail Connection.

The Plan's technical analysis suggests that a more direct connection between Montgomery and Frederick counties has the potential for minor reallocation of population from Montgomery to Frederick and some jobs from Frederick to Montgomery. In other words, an enhanced rail connection potentially could progress the suburbanization and growth of Frederick—particularly Frederick City—as a bedroom community to Montgomery County.

Anticipated capital costs for either a monorail or light rail connection were higher than the other evaluated transit options. The option is the most expensive project for engineering and construction. Operational costs over a 60-year timeframe for either monorail or light rail make the option the second most expensive option to operate. When costs are normalized based on net new systemwide transit riders, the option is the least attractive of the six studied options.

In sum, a Frederick Rail Connection successfully reduces vehicle miles traveled, but it is very expensive with the highest capital cost per new rider. While a monorail

option may be easier to implement from a right-of-way acquisition perspective, advancing the option would still require substantial financial support, perhaps as a public-private partnership, which would render implementation more complex. Potential minor job reallocation to upcounty does not justify significant financial support from the county given that the option provides greater mobility benefits to commuters originating in Frederick; however, if others champion advancing this option, this Plan recommends county cooperation and support for their efforts.



The Frederick Rail Connection would provide a more direct transit option for travelers between Montgomery and Frederick Counties.

CORRIDOR CITIES TRANSITWAY (CCT)

The previously master-planned CCT connects the communities of Clarksburg, Germantown, and Gaithersburg to the WMATA Metrorail system at Shady Grove via the Life Sciences Center. Over the years, the route has been adjusted to service and support growth

in the Life Sciences Center; however, implementation has failed to advance beyond conceptual engineering of the southern portion of the service between Metropolitan Grove and the Shady Grove Metrorail Station. The original intent of the CCT and its implementation barriers are detailed in Table 6.

Table 6 – Master Planned CCT Purposes and Barriers

Corridor Cities Transitway Purposes	Implementation Barriers
<ul style="list-style-type: none"> • Connect Clarksburg and Germantown to the Life Sciences Center • Connect Clarksburg and Germantown to the WMATA Metrorail System • Connect the Life Sciences Center to the WMATA Metrorail System • Attract growth in the Life Sciences Center 	<ul style="list-style-type: none"> • Perception by potential funding partners that the current planned route is inefficient to provide Clarksburg and Germantown access to Metrorail. • Perception by potential funding partners that the current planned route serves primarily local needs and offers limited regional benefits. • Two costly grade-separated features (an interchange and an overpass). • Costly segments of unbuilt dedicated bus lane roadways paralleling I-270 with no stops due to surrounding environmental assets. • Perceived stakeholder concern regarding the service's alignment. • Perceived stakeholder skepticism of the service's ability to stimulate economic development.

Corridor Forward modeled transit options in both the forecasted growth year of 2045 and on today's transportation network with existing land-use conditions. There is a significant divergence in how the provision of the CCT impacts network-wide transit trip production. When modeled on today's existing transportation network with current development levels, the CCT is forecasted to result in 3,900 additional new transit trips. When modeled on the 2045 network, the CCT is forecast to result in 7,400 new transit trips. The increase stems from forecasted land use growth, which the Plan's land-use analysis deems generally reasonable.

More than any other option, the region's transit-trip gains are mainly located within the county, with Montgomery County accounting for 96 percent of the new transit trips generated in 2045. Because the CCT trips are shorter and more localized when compared to other studied options, the reduction in VMT in 2045 is less significant for this option.

The CCT is less expensive than other studied options and offers the second-best capital and renewal costs per new 2045 net new systemwide transit rider. In terms of operating expenses, the CCT is the third best project per new 2045 systemwide transit rider. While some right-of-way has been provided to support the CCT, some land

acquisition costs remain. The original CCT includes two expensive grade-separated features (an interchange and an overpass), which would require additional detailed design work.

Refinements to the CCT are warranted. The service has been planned for decades and is highly anticipated by CCT-served communities who are quick to point out that a portion of the service's preliminary design work is complete, and some of the service's right-of-way has been provided or accounted for through easement or reservation of space. Performance of the CCT, as suggested by the technical analysis, rests upon the county achieving its land use vision in communities served by the transitway, suggesting that the demand for transit service and mode shift may not be achieved if growth is less than anticipated. The Plan retains the intent to serve the CCT communities, but further explores how capital costs can be better scaled through a series of targeted revisions of the master-planned service.

MANAGED LANES ENHANCED COMMUTER BUS

The Managed Lanes Enhanced Commuter Bus option represents an attempt to serve CCT communities differently, integrating these communities with the larger regional corridor. This option travels along the interstate, serving 19 different county stops, four Frederick stops, and three stops in Tysons across four different service patterns. Rather than position stops along the interstate, the bus diverts in select locations to serve communities. Dedicated bus lanes support quick reliable access to points of demand in Germantown, Montgomery Village, and the Life Sciences Center. Separate from the commuter bus service, the option also contemplates service extensions of the Veirs Mill Road BRT into the Life Sciences Center and an additional terminal service leg of the MD 355 BRT on Observation Drive to support the development of communities initially planned for CCT service.

Throughout the years, studies and NEPA work for the I-270 corridor have considered the potential for dedicated bus service on the interstate. While Corridor

Forward assumes that a corridor-running commuter bus service will use managed lanes if implemented, results demonstrate the potential of service in dedicated lanes more generally. The Managed Lanes Enhanced Commuter Bus option is forecasted to generate 9,300 new systemwide transit trips in 2045, and over 63 percent of these trips are forecasted to occur within Montgomery County.

The option's additional service extension of the Veirs Mill Road BRT into the Life Sciences Center increases the line's riders by 5,300; however, the additional service leg of the MD 355 BRT on Observation Drive is not forecasted to add a significant number of riders to the BRT system.

Similar to the Frederick Rail Connection option, the Plan's land use model suggests that the option may spur more housing development in Frederick and may make employment development in the midcounty and upcounty region more attractive, although reallocations of growth were minor for this—and all—options. The projected population increases in Frederick are partially attributable to travel time benefits.

The option has lower capital costs, assuming the costs of dedicated bus lanes are born by others (via construction of the I-270 managed lanes). On the other hand, the option's operational costs far exceed that of other options and represent the second-highest anticipated cost per new transit rider. Because the service is regional, it is unclear who would bear the option's operating costs. Additionally, the interjurisdictional nature of the project introduces some complexity into planning and implementation.

Performance of the option suggests that enhanced commuter service may play a key role in supporting regional mobility; however, the county plays a very limited role in service planning for regional commuter bus. Montgomery Planning's role in transportation planning focuses on ensuring infrastructure needs are supported, and that conversely, infrastructure supports and drives land use development. While results suggest an enhanced commuter bus option has merit, the option is unlikely to support the compact, transit-

oriented development recommended in the county's plans and policies.

While the Managed Lanes Enhanced Commuter Bus option is not included in Corridor Forward's transit network, this Plan supports the State's continuance of commuter service and recommends this service use Corridor Connectors to reach Montgomery County's population and employment centers, as well as any future managed lanes on I-270. Corridor Forward also supports enhanced commuter bus service by maximizing the potential of local off-highway dedicated bus lanes, as discussed in Chapter 5, to support both local and regional corridor accessibility. This Plan further recommends supporting infrastructure for commuter bus service that maximizes person throughput and public benefit.

RED LINE EXTENSION

The Plan's Red Line Extension option contemplates additional WMATA Metrorail service along the CSX corridor to Germantown Road, and then along

Germantown Road to Germantown Town Center, and studied stops at Old Town Gaithersburg, MD 124/Fairgrounds, and Germantown Town Center. Corridor Forward's technical analysis suggests that this connection reduces daily vehicle miles traveled by 160,000 miles. In the technical analysis, this 160,000 daily mile reduction was the greatest among the six transit options retained for detailed analysis, and it includes drivers accessing the new stations from points in Frederick County, suggesting that the option has regional benefits. The Red Line Extension would increase systemwide transit use by 8,000 daily trips and would provide a more efficient transit trip for 9,100 current transit users.

Compared to other studied options, the Red Line Extension's one-seat ride to Washington, DC, offers the greatest potential to increase job accessibility, both generally and for communities residing in Equity Focus Areas. The extension reduces transit travel times between key county destinations; specifically, trips from Germantown and Gaithersburg to Bethesda would be reduced by 13 and 9 minutes, respectively.



The Red Line extension has the greatest environmental benefits of the options studied.

The Red Line Extension option is not without its challenges, and the benefits of this recommendation can only be realized through intentional, long-term planning, as well as significant interagency and inter-jurisdictional coordination across various levels of government. Support would also be necessary from private stakeholder CSX, which runs trains adjacent to the proposed extension. The project's up-front capital costs are significant, and there are numerous engineering, operational, and political challenges that would need to be addressed for the recommendation to advance. Today, WMATA is focused on bringing the system's core into a state of good repair and is reluctant to consider extensions without a clear understanding of financial implications and downstream passenger capacity. While the equity case and growth justification may be clear from the county's perspective, the county will need to compile resources, land, and partners over time to realize this recommendation. Additionally, other Metrorail safety and capacity needs would likely need to be addressed before the recommendation could advance.

Regarding right-of-way, Corridor Forward assumes that the Red Line Extension option would require approximately 62 feet of additional space measured from the outermost southbound track per the WMATA specifications for Metro adjacent to rail corridors. While this figure is more conservative than the tight spacing where WMATA and CSX operate adjacent to one another in Silver Spring and Washington, DC, new safety regulations necessitate the additional space. In total, Corridor Forward estimates that the Red Line Extension would require approximately 20 acres of additional right-of-way, and approximately 42 structures would be impacted.

In addition, the Plan estimates that approximately 70 acres of land would be required to support the extension with an operations and maintenance facility, and there are only a few properties in Germantown with that amount of space. The existing federally-owned Department of Energy site may be the most realistic candidate for the location of an operations and maintenance facility. As a project of this magnitude

would require federal funding, reconstruction of the facility could be considered to create a new transit-oriented General Services Administration-owned site; however, long-term collaboration with the federal government would be required. Beyond costs studied in this effort, the alignment would have to account for traversing at least 16 different features that would require grade separation.

While capital and land acquisition costs associated with the Red Line Extension are resource-intensive, operating costs are anticipated to be less than other options explored. Consideration of how the state's operating transit resources are allocated may be warranted as increasing support for WMATA may be more financially prudent and beneficial than supporting operations for a Maryland-only bus line.

Despite challenges, the overall performance of the Red Line Extension demonstrates that this option merits further exploration to further the county's equity goals and to serve existing corridor communities with the highest-quality transit. As discussed in greater detail in Chapter 5, this Plan's transit network includes a vision for a long-term extension of the Red Line to Germantown Town Center and acknowledges that significant coordination with communities along the proposed extension is essential to minimize impacts in future planning and design.

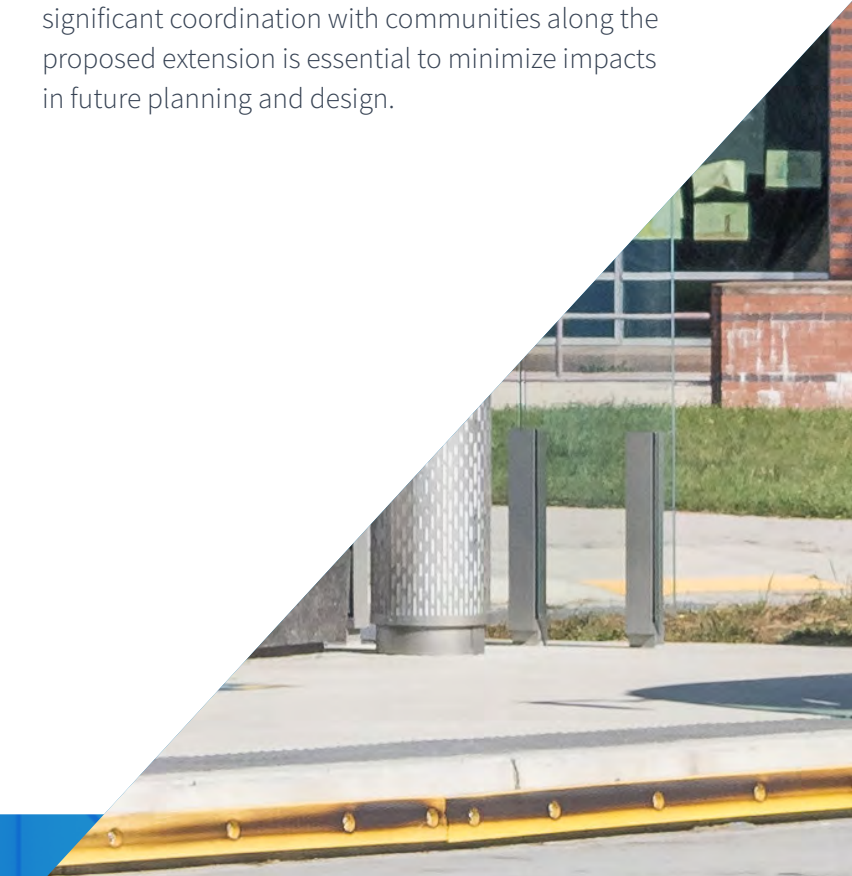






Photo Credit: Montgomery County
Department of Transportation

FIVE PLAN RECOMMENDATIONS

Corridor Forward establishes a near-term transit network for the I-270 corridor, complemented by a long-term transit vision. The near-term and long-term networks are supplemented by additional recommendations focused on supporting and enhancing the transit network and strengthening connections to adjacent jurisdictions. The Corridor Connectors, in combination with local and commuter bus, bus rapid transit, and rail create a complete transit network for the midcounty and upcounty that serves existing and planned land use as well as provides a viable alternative to travel by car for trips among neighborhoods, centers of activity, and destinations within the region.

Table 7 and Tables 10 to 12 outline the Plan's recommendations. The Plan's ultimate success is demonstrated through implementation of its recommendations. As a result, each recommendation includes action steps toward advancing implementation.

NEAR-TERM TRANSIT NETWORK

The near-term network builds on existing master-planned projects, such as the MD 355 and Veirs Mill Road BRT projects, through new dedicated bus lanes—referred to as the Corridor Connectors. The Corridor Connectors envision the previously master-planned CCT as a network of more buildable dedicated bus lanes, which connect I-270 corridor communities to the county's existing and planned rapid transit network.

Master-Planned BRT Services

This Plan recommends the MD 355 and Veirs Mill Road BRT services as the most crucial first step in improving corridor accessibility. MD 355 functions as the county's primary north-south rapid transit corridor, and Veirs Mill Road provides a crucial link between Wheaton and Rockville. These routes offer connections to high-quality services like Metrorail and the MARC Rail Brunswick Line, as well as other planned BRT services. The dedicated bus lanes included in the Corridor

Connectors connect to these services, creating a network with numerous service pattern opportunities. While current planning and design work for these two services does not envision bidirectional dedicated bus lanes on all planned segments, this Plan supports the implementation of interim conditions (peak hour dedicated bus lanes, queue jumps, some mixed-traffic segments, etc.) where necessary, but maintains and

recommends bidirectional dedicated bus lanes for these services as the ultimate vision.

In addition to the MD 355 and Veirs Mill Road BRT projects, the Plan recommends implementation of the North Bethesda Transitway, specifically maintaining the recommendation from the *2013 Countywide Transit Corridors Functional Master Plan*, prioritizing service to White Flint based on the county's land-use goals.

Table 7 – Near-Term Transit Network Recommendations

NEAR-TERM TRANSIT NETWORK	COUNTY ACTIONS
Implement the MD 355 BRT and Veirs Mill Road BRT projects.	<ul style="list-style-type: none"> Secure financial support for the MD 355 BRT and Veirs Mill Road BRT projects; advance and construct these two key services.
Implement the Corridor Connectors, a network of dedicated bus lanes in the midcounty and upcounty, which include refinements to the Corridor Cities Transitway.	<ul style="list-style-type: none"> Create a new Montgomery County capital project for the Corridor Connectors so individual Corridor Connectors may be prioritized, and funds may be allocated. Work with MDOT MTA to shift funding commitments in the Consolidated Transportation Program from the CCT to the Corridor Connectors, specifically the Corridor Connectors that most align with the original CCT alignment: the Life Sciences Connector, the Great Seneca Connector, and the Milestone/COMSAT East Clarksburg Connector. Study and demonstrate the local and regional value of the remaining Corridor Connectors: the Rockville Connector, the Crown Connector, the Lakeforest/Montgomery Village Connector, the Germantown Connector, and the Manekin West Connector. If and when the state advances the Managed Lanes project north of I-370, advocate for access points that support connections to the Life Sciences Center, Montgomery Village/Lakeforest, and Germantown Town Center via the proposed Corridor Connectors.
Support the Great Seneca Transit Network.	<ul style="list-style-type: none"> Support infrastructure improvements associated with the Great Seneca Transit Network (Pink, Cobalt, Lime, and Gray Lines), prioritizing routes that either make use of or complement the Corridor Connectors. Align the “extended network” to make use of the Corridor Connectors.
Support the North Bethesda Transitway alignment as master-planned.	<ul style="list-style-type: none"> Maintain the recommendation from the 2013 <i>Countywide Transit Corridors Functional Master Plan</i> for the North Bethesda Transitway, prioritizing service to White Flint based on the county's land use goals.
Continue state-provided commuter bus service on I-270, making use of the Corridor Connectors when diverting to bus stations in Montgomery County's population and employment centers via the Corridor Connectors.	<ul style="list-style-type: none"> Recommend the state explore opportunities to fund the Corridor Connectors as a mechanism to enhance commuter bus service.

Corridor Connectors

The Corridor Connectors build upon the work of previous plans and studies associated with the county's planned BRT network and envision a system of dedicated bus lanes that, once implemented in full, can support a series of different service patterns, to be determined by operating partners at county, state, or other inter-jurisdictional levels. The transit network maximizes the potential of the MD 355 BRT and Veirs Mill Road BRT projects by providing branches of additional dedicated bus lanes that feed into the two services.

This Plan reenvision the previously master-planned CCT as a network of dedicated bus lanes, which connect I-270 corridor communities to the county's existing and planned rapid transit network. The proposed Corridor Connectors provide dedicated bus lanes within and among the Corridor Cities of Rockville, Gaithersburg, Germantown, and Clarksburg, and provide the opportunity for transit that is accessible, convenient, and efficient among these centers of activity. The proposed Corridor Connectors introduce an additional transit choice and a viable alternative to driving for trips within the midcounty and upcounty—fulfilling the missing link in the hierarchy of mobility needs discussed in Chapter 3.

The Corridor Connectors address both the purposes and barriers of the master planned CCT by integrating communities previously planned for service into the currently planned MD 355 and Veirs Mill Road BRT network. In addition, these dedicated bus lanes may be used to support BRT and commuter bus service. With dedicated lanes available and proximate to the highway, commuter buses can divert into these dedicated bus lanes to access communities and activity centers more quickly and efficiently.

The Corridor Connectors represent the network of dedicated bus lanes in Great Seneca, Lakeforest, Montgomery Village, Germantown, and Clarksburg, and they include the following components:

- The Rockville Connector
- The Life Sciences Connector
- The Crown Connector
- The Great Seneca Connector
- The Lakeforest/Montgomery Village Connector
- The Germantown Connector
- The Manekin West Connector
- The Milestone/COMSAT East Clarksburg Connector

Rockville Connector

The Rockville Connector links Rockville with the Life Sciences Center, and it can be considered an extension of the dedicated bus lanes associated with the Veirs Mill Road BRT. This Plan anticipates that links between the Life Sciences Center, the county seat in Rockville, and the significant labor pools residing in the Twinbrook and Wheaton areas may support access to and growth of the Life Sciences Center. In addition, this connector creates the opportunity for a one-seat ride to the Life Sciences Center from points southeast like Rockville Town Center, Twinbrook, and Wheaton. Analysis demonstrates that a connection to the Life Sciences Center could add as many as 5,300 new daily riders to the Veirs Mill Road BRT, many of whom reside in Equity Focus Areas along Veirs Mill Road.

The Rockville Connector includes two alternative alignments between MD 355 and the Life Sciences Connector. The first alignment runs along Gude Drive between MD 355 and Piccard Drive, while the second alignment travels along MD 28 from MD 355 to Gude Drive. The constructed alignment will be determined during the facility planning process.

Figure 2 – Dedicated Bus Lanes Network, including Corridor Connectors

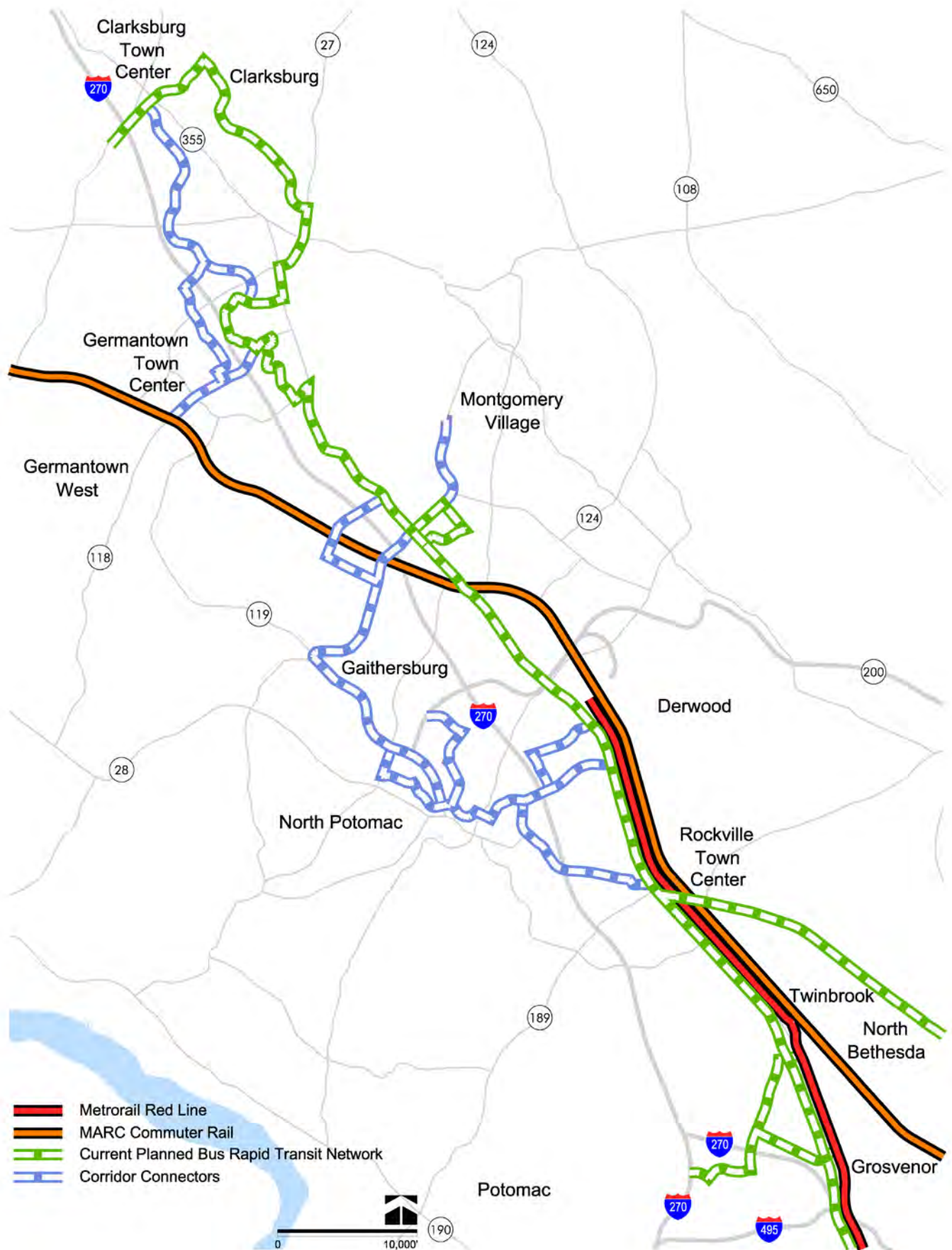
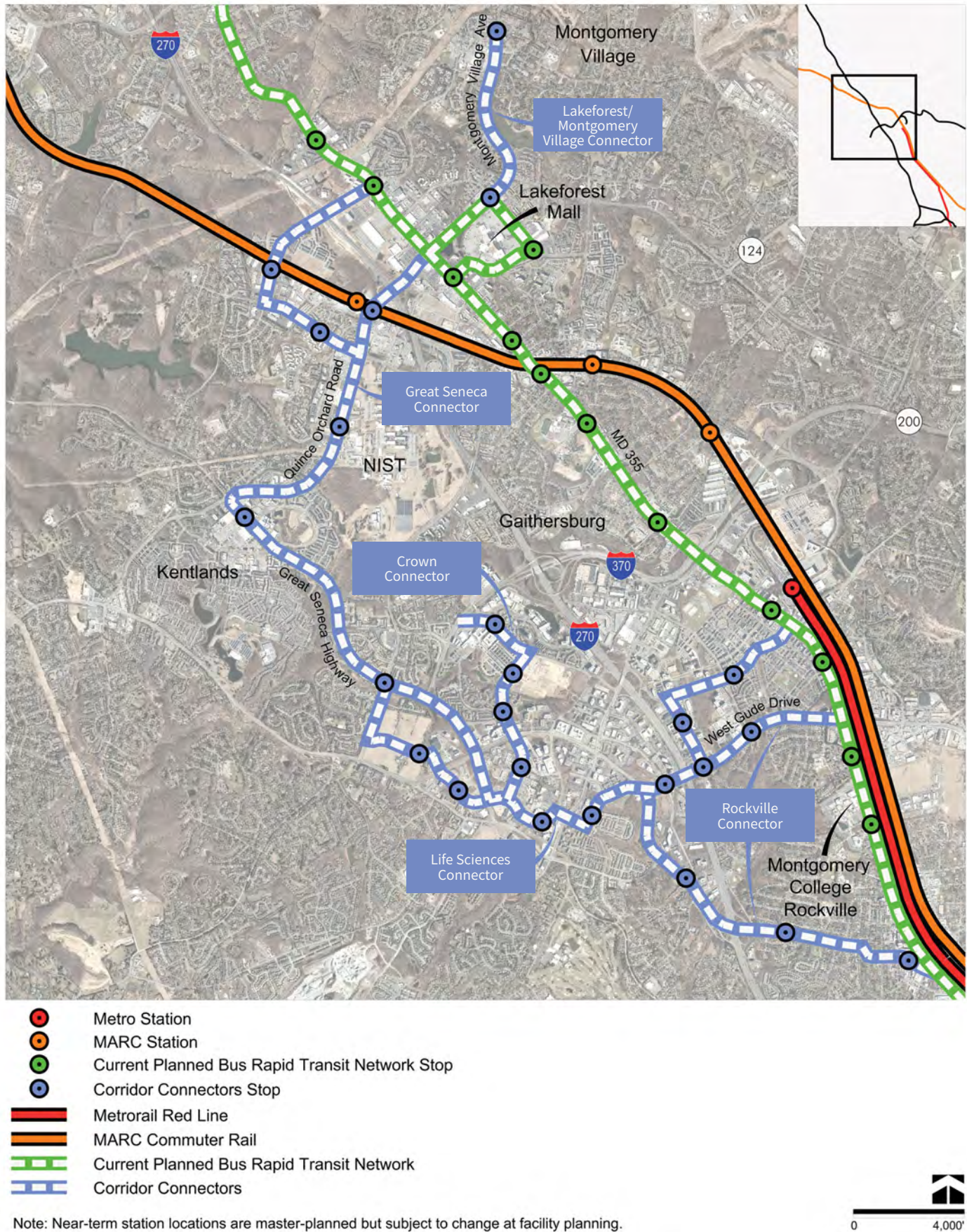


Figure 3. Life Sciences Center and Montgomery Village Dedicated Bus Lanes, including Corridor Connectors



Life Sciences Connector

The Life Sciences Connector links the Shady Grove Metro station with the Life Sciences Center, and it connects to the MD 355 BRT as well as the Great Seneca and Crown Connectors. If the state advances an interchange at Gude Drive as a component of the Managed Lanes project (or some other future interstate project), commuter buses running on I-270 will be able to quickly and efficiently divert from the interstate to access the Life Sciences Center via the dedicated bus lanes.

Crown Connector

The Crown Connector provides dedicated bus lanes between I-370 and the Life Sciences Connector. The dedicated bus lanes largely align with the previously master-planned CCT alignment along Decoverly Drive, Diamondback Drive, and Broschart Road. This connector provides premium transit infrastructure to Crown Farm, as well as efficient access to the Universities at Shady Grove and Adventist Health Care Shady Grove Medical Center.

Great Seneca Connector

The Great Seneca Connector extends between the terminus of the Life Sciences Connector and MD 355 at Watkins Mill Road, largely following the path of the previously master-planned CCT with slight deviations. This alignment of dedicated bus lanes connects communities and employment centers such as the National Institute of Standards and Technology (NIST) and the Kentlands into the county's larger BRT network. When joined with the Life Sciences Connector, these communities receive direct access to the Life Sciences Center employment hub, as well as the Metrorail Red Line in Rockville. Depending on the ultimate service patterns programmed by operational partners, completing the link offers the potential to provide one-seat rides between Wheaton and NIST or Montgomery Village and the Life Sciences Center.

Two alternative alignments are provided: one alternative includes dedicated bus lanes through the Public Safety Training Academy (PSTA) and Belward Farm properties and then along Muddy Branch Road, while another option includes dedicated bus lanes along Great Seneca

Highway. The alignment for the Great Seneca Connector in this location should be determined through subsequent planning processes.

Lakeforest/Montgomery Village Connector

The Lakeforest/Montgomery Village Connector runs along MD 124 from the Great Seneca Connector (which diverts from MD 124 at Clopper Road) past Lakeforest Mall to Montgomery Village. Gaithersburg's Lakeforest Mall is planned for redevelopment and the municipality has recently completed its Lakeforest Mall Master Plan. The site is currently planned to be served by the MD 355 BRT but could be further enhanced with an east-west link that connects to points of demand along MD 124. Further northeast, Montgomery Village, a relatively dense, established community, and a designated Equity Focus Area, is not well connected to premium transit. Providing service along MD 124 to integrate Montgomery Village in a direct and efficient manner to the MD 355 BRT, as well as points west and south, such as the National Institute of Standards and Technology, Kentlands, and the Life Sciences Center, will generally improve access for this underserved community.

The alignment proposes two stops: Montgomery Village Center and Lakeforest Mall. However, additional stops could be explored during the facility planning process as numerous dense subdivisions have access adjacent to Montgomery Village Avenue/MD 124. The Lakeforest Mall Master Plan discusses potentially relocating



The Lakeforest Transit Center serves several bus routes and is a major transit connection between upcounty and downcounty.

the site's transit center closer to MD 355. Corridor Forward reiterates this suggestion. As I-270 highway access is provided at Montgomery Village Avenue/MD 124, commuter bus service operated by others could potentially use the recommended dedicated bus lanes to improve regional access for Lakeforest and Montgomery Village.

Germantown Connector

The Germantown Connector links points of demand along MD 118, including Montgomery College (Germantown), Germantown Town Center, and the Germantown MARC Station. The dedicated bus lanes on MD 118 allow the MD 355 BRT service to travel to and from Germantown Town Center in dedicated lanes. The Germantown Connector supports local connectivity for rapid and local service alike; Ride On buses 61, 75, and 83 all use segments of MD 118 and could be supported by the dedicated lanes. In addition, the Germantown Connector can serve potential commuter bus diversions from the interstate to points of demand in Germantown.

Manekin West Connector

The Manekin West Connector connects the Germantown Connector and Milestone/COMSAT East Clarksburg Connector. Dedicated bus lanes on Aircraft Drive, Century Boulevard, and Dorsey Mill Road comprise the Manekin West Connector, which unlocks the potential to route some MD 355 BRT buses to communities originally envisioned for CCT service. In other words, following a diversion to Germantown Town Center, some MD 355 BRT buses could run and terminate at Manekin or continue to Clarksburg via the Milestone/COMSAT East Clarksburg Connector east of I-270. While the Corridor

Connector extends over the planned Dorsey Mill Bridge, the bridge itself is not considered part of the transit project. This Corridor Connector serves the developing Black Hill communities, as well as apartment complexes and office parks in the Cloverleaf vicinity.

Milestone/COMSAT East Clarksburg Connector

A third branch of dedicated bus lanes between Germantown and Clarksburg—the Milestone/COMSAT East Clarksburg Connector—will allow the MD 355 BRT to connect to other CCT communities and employment centers, including stops at Dorsey Mill, COMSAT, and Gateway Center via Observation Drive—or alternatively, Gateway Center Drive—before traveling to the Clarksburg Outlet terminus.

Today, an extension of Observation Drive (or alternatively Gateway Center Drive) remains to be constructed between its existing termini. Montgomery Planning anticipates initiating master planning work for the existing unoccupied COMSAT site, where a roadway connection is planned.

The dedicated bus lanes in Germantown and Clarksburg integrate six previously master-planned northern CCT stops into the MD 355 BRTs network. Because MD 355 provides connectivity to both the Shady Grove and Rockville Metrorail stations (as well as other points on the Red Line), one of the original intents of the CCT—connecting Germantown and Clarksburg to the WMATA Metrorail System—is satisfied in a more efficient and less costly manner.



The Germantown Connector would run past the Germantown Transit Center, which is a hub of several bus routes

Figure 4 – Germantown and Clarksburg Dedicated Bus Lanes, Including Corridor Connectors



Note: Near-term station locations are master-planned but subject to change at facility planning.

Relationship to the CCT

This Plan reenvisioned the master planned CCT as a network of dedicated bus lanes that connect I-270 corridor communities to the county's existing and planned rapid transit network and support MCDOT's Great Seneca Transit Network. The Corridor Connectors provide a more implementable alternative to the CCT, consistent with the position of MDOT SHA that supports options that reduce and/or eliminate the need for additional infrastructure. Three cost-saving elements of the Corridor Connectors include:

- The planned CCT overpass connecting King Farm Boulevard and Fields Road is no longer necessary, reducing implementation costs.
- By connecting to the MD 355 BRT, the Corridor Connectors eliminate the need for the dedicated bus lanes paralleling the western side of I-270 that do not serve any planned communities. Removing three miles of new right-of-way reduces the project's costs.
- While the Corridor Connectors maintain the crossing of the Dorsey Mill Bridge, bridge design and construction is not considered part of the Corridor Connector project. There is merit to the Manekin West Connector and Milestone/COMSAT East Clarksburg Connector even if the two are not linked across I-270. Exclusion of the bridge from the transit project further reduces the Corridor Connectors' implementation cost.

Corridor Forward recommends the Maryland Department of Transportation shift funding commitments in the Consolidated Transportation Program from the Corridor Cities Transitway to the Corridor Connectors, specifically the Corridor Connectors that most align with the original CCT alignment: the Life Sciences Connector, the Great Seneca Connector, and the Milestone/COMSAT East Clarksburg Connector.

While Corridor Forward proposes a reenvisioning of the CCT with Corridor Connectors, this Plan does not recommend vacating existing transit easements or previous dedications as these may still be beneficial in the long-term for various purposes, including but

not limited to, transit, pedestrian, bicycle, and other micromobility improvements

Roadway and Transitway Recommendations

Table 8 details the right-of-way needs for the Corridor Connectors. The minimum right-of-way widths provided in the table reference the county's Complete Streets Design Guide to determine spacing needs. These guidelines inform ultimate design with the aim of creating safe, sustainable, and dynamic street environments. In most cases, roadways are not expanded beyond current master-planned widths. Where ranges are presented, the lower end of the range is highly preferable to support sound urban design and the development of pedestrian-friendly environments. Research suggests that pedestrians tend to prefer environments that create a sense of enclosure, which is easier to accomplish in tighter street environments. In some cases, the higher end of a range may be necessary, particularly if repurposing automobile capacity is not possible.

Beyond Table 8, this Plan removes the "T" (transit) designation from all CCT roadways not explicitly included in Table 8. Subsequent county master plans will address the right-of-way widths for roadways previously master planned for CCT service. In locations where roadways planned for CCT service fall within municipalities, Gaithersburg and Rockville, as relevant, maintain the authority to consider and address transit and right-of-way widths at their discretion. These communities will be served by the Corridor Connectors as well as the Great Seneca Transit Network—a series of enhanced, locally serving bus routes. As some of the transit network falls within municipalities, this Plan recommends municipal consideration of the right-of-way needs, as shown in Table 9.

While median-running transit offers the best opportunity to operate a bus without impact from traffic, in some locations curb-running transit may be preferable. Section needs vary significantly based on context, as utilities, mature trees, and adjacent connecting **active zone** facilities can impact the most desirable and/or practical design. Engineered sections will be designed

during the facility-planning process or determined through the development review process for new development adjacent to the relevant roadway(s).

While Complete Streets Design Guide street classifications have not yet been officially applied to all county roadways by an amendment to the 2018 *Master Plan of Highways and Transitways*, illustrative sections are included in the Plan's Appendix that are consistent with the county's Complete Streets Design Guide. Dedicated bus lanes are assumed to be 13 feet or 12 feet in constrained sections. Dedicated bus lane buffer widths may vary. Along wider roadways, buffers with six-foot wide medians are preferred to provide pedestrians ADA-compliant crossing refuges; however, in locations

where it is preferable to maintain a tight cross-section to reduce crossing distances, two-foot-wide buffers may be appropriate. In locations where left-turn lanes are necessary, 16-to-18-foot-wide center medians have the potential to support turning needs and pedestrian refuges, while smaller 12-foot-wide medians do not support pedestrian safety. Consistent with the county's Vision Zero policy and the intent of the Complete Streets Design Guide, prioritizing safety for a roadway's most vulnerable users is paramount. For this reason, ultimate section designs should account for adequate pedestrian refuges across wider roadway sections, as well as appropriate buffers from traffic that protect non-motorists, many of whom are walking, biking, or rolling to transit.

Table 8 – Roadway and Transitway Recommendations

Connector	Roadway	To	From	Designation	Minimum ROW ¹	Preferred Number of Dedicated Bus Lanes
Life Sciences Connector	Medical Center Drive	Fallsgrove Boulevard	Broschart Road	Arterial, A-261d	100'-150'	2
	Medical Center Drive	Broschart Road	Great Seneca Highway	Arterial, A-261d	100'-150'	2
	Medical Center Drive	Great Seneca Highway	Key West Avenue	Arterial, A-261d	100'-150'	2
Crown Connector	Decoverly Drive	Gaithersburg City Limit	Diamondback Drive	Arterial, A-284	100'-150'	2
	Diamondback Drive	Decoverly Drive	Key West Avenue	Arterial, A-261b	100'-150'	2
	Broschart Road	Key West Avenue (MD 28)	Medical Center Drive	Arterial, A-261b	100'-150'	2
Great Seneca Connector	Great Seneca Highway (MD 119)	Medical Center Drive	Key West Avenue (MD 28)	Controlled Major Highway, CM-90	150'	2
	Great Seneca Highway (MD 119)	Key West Avenue (MD 28)	Sam Eig Highway	Controlled Major Highway, CM-90	150'-200'	2
	Johns Hopkins Drive ²	Key West Avenue (MD 28)	Belward Campus Drive	Arterial, A-261d	100'-150'	2
	Decoverly Drive ²	Muddy Branch Road	Johns Hopkins Drive	Arterial, A-284	100'-150'	2
	Muddy Branch Road ²	Decoverly Drive	Great Seneca Highway	Major Highway, M-15	170'	2

Connector	Roadway	To	From	Designation	Minimum ROW ¹	Preferred Number of Dedicated Bus Lanes
Lakeforest/ Montgomery Village Connector	Montgomery Village Avenue (MD 124)	Gaithersburg City Limits	Mid-County Highway	Major Highway, M-24	120'-140'	2
	Montgomery Village Avenue (MD 124)	Mid-County Highway	Club House Road	Arterial, A-295	120' ³	2
Germantown Connector	Germantown Road (MD 118)	Bowman Mill Drive (MARC access)	Frederick Road (MD 355)	Major Highway, M-61	150'	2
Manekin West Connector	Aircraft Drive	Germantown Road (MD 118)	Century Boulevard	Business District Street, B-7	100'	2
	Crystal Rock Drive	Century Boulevard	Germantown Road (MD 118)	Business District Street, B-24	120'	2
	Century Boulevard	Crystal Rock Drive	Aircraft Drive	Business District Street, B-10	136'	2
	Century Boulevard	Aircraft Drive	Crystal Rock Drive Northern Circle	Business District Street, B-10	136'	2
	Dorsey Mill Road	Century Boulevard	Observation Drive	Business District Street, B-14	150'	2
Milestone/ COMSAT East Clarksburg Connector	Observation Drive	Germantown Road	Stringtown Road	Arterial, A-19	150'	2
	Gateway Center Drive Extended ²	Current Observation Drive Terminus	West Baltimore Road	Arterial, A-300	125'	2
	Gateway Center Drive Extended ²	West Baltimore Road	Shawnee Lane	Arterial, A-300	125'	2
	Gateway Center Drive ²	Shawnee Lane	Proposed Clarksburg Bypass	Arterial, A-300	125'	2
	Gateway Center Drive ²	Proposed Clarksburg Bypass	Stringtown Road	Arterial, A-300	125'	2
MD 355 BRT – Ultimate Segment 7 Alignment	Ridge Road	Brink Road	MD 355	Major Highway, M-27	150'	2
	Ridge Road	Snowden Farm Parkway	Brink Road	Major Highway, M-27	150'	2
	Snowden Farm Parkway	Stringtown Road	Ridge Road	Arterial, A-305	120'-140'	2
	Stringtown Road	I-270	Snowden Farm Parkway	Arterial, A-260	120'-140'	2
	Clarksburg Road	Clarksburg Premium Outlets Entry	I-270	Arterial, A-27	150'	2

¹ Prioritize lower number of automobile lanes to allow transit, pedestrian, and bicycle capacity.² Represents an alternate alignment option to be considered during facility planning.³ Montgomery Village Avenue minimum right-of-way is master-planned to be 120 feet, unless a portion of the right-of-way can be repurposed.

Table 9 – Advisory Only - Roadway and Transitway Recommendations within Municipal Bounds

Connector	Roadway	From	To	Jurisdiction	Preferred Number of Dedicated Bus Lanes ¹
Rockville Connector	West Montgomery Avenue (MD 28)	Shady Grove Road	Gude Drive/Fallsgrove Drive	City of Rockville	2
	Gude Drive ²	Frederick Road (MD 355)	Piccard Drive	City of Rockville	2
Life Sciences Connector	Redland Boulevard	Piccard Drive	MD 355	City of Rockville	2
	Piccard Drive	Redland Boulevard	Gude Drive	City of Rockville	2
	Gude Drive	Piccard Drive	Fallsgrove Drive	City of Rockville	2
	Fallsgrove Drive ³	Gude Drive	Fallsgrove Boulevard	City of Rockville	2
	Fallsgrove Boulevard	Fallsgrove Drive	Shady Grove Road	City of Rockville	2
Crown Connector	Fields Road	I-370	Decoverly Drive	City of Gaithersburg	2
	Decoverly Drive	Fields Road	Gaithersburg City Limit	City of Gaithersburg	2
Great Seneca Connector	Great Seneca Highway (MD 119)	Sam Eig Highway	Quince Orchard Road	City of Gaithersburg	2
	Quince Orchard Road (MD 124)	Great Seneca Highway (MD 119)	Twin Lakes Drive	City of Gaithersburg	2
	Quince Orchard Road (MD 124)	Twin Lakes Drive	Clopper Road (MD 117)	City of Gaithersburg	2
	Clopper Road (MD 117)	Quince Orchard Road	Watkins Mill Road	City of Gaithersburg	2
	Watkins Mill Road	Clopper Road (MD 117)	Frederick Road (MD 355)	City of Gaithersburg	2
Lakeforest/ Montgomery Village Connector	Montgomery Village Avenue/Quince Orchard Road (MD 124)	Clopper Road (MD 117)	Frederick Road (MD 355)	City of Gaithersburg	2
	Montgomery Village Avenue (MD 124)	Frederick Road (MD 355)	Gaithersburg City Limits (Lakeforest Entrance)	City of Gaithersburg	2

¹ Provision of transit lanes is strongly suggested for municipal consideration, which has planning authority independent of the county.

Prioritization of dedicated bus lanes over automobile travel lanes is strongly recommended.

² Represents an alternate alignment option to be considered during facility planning.

³ While express or dedicated bus lanes are strongly preferred, section could allow off-peak parking or mixed-traffic transit operations, dependent on further facility planning studies.



The Great Seneca Transit Network

MCDOT has a network of targeted bus infrastructure within the vicinity of the Life Sciences Center, including newly constructed dedicated lanes, painted express bus-only lanes, queue jumps, and transit signal priority. The network includes five lines connecting various points of demand in the Great Seneca and Gaithersburg vicinities with the Universities at Shady Grove. While Montgomery Planning does not master-plan operational improvements and was not involved in the network's analysis, this Plan supports the implementation of the network, including repurposing travel lanes, as consistent with this Plan's recommendations.

This Plan proposes a near-term network that, when complemented by MCDOT's Great Seneca Transit Network, serves most of the communities originally envisioned for CCT service, as well as additional communities. By itself, the Great Seneca Transit Network does not serve the entire geographic span of the CCT; however, the near-term Corridor Connectors and the Great Seneca Transit Network together support the original vision of the CCT.

Commuter Bus Service on I-270

The Plan recommends continued state-provided commuter bus service on I-270, making use of the Corridor Connectors when diverting to bus stations in Montgomery County's population and employment centers via the Corridor Connectors. The Plan's analysis suggests that there is demand between Frederick and the Life Sciences Center and points spanning between Montgomery Village and Tysons.

The joint MTA and Virginia Department of Rail and Public Transportation's 2021 *American Legion Bridge – Transit/TDM Study* illustrates various investment packages including commuter bus service. The report assumes highway access is available at Gude Drive, implying that the Life Sciences Connector would have a regional benefit. Additionally, the report shows access to Germantown Town Center via a portion of the Germantown Connector. Finally, the report shows a terminal alignment at the Lakeforest Mall, with an alignment that could be slightly reenvisioned to connect these communities with highway infrastructure via MD 124 rather than MD 355. Locations included for service in Gaithersburg could be served by the MTA and Virginia Department of Rail & Public Transit study's MD 355-Gude Drive service pattern. Regardless, the three connectors and their connecting service legs have regional value and may be stronger candidates for funding support as compared to the original CCT.

LONG-TERM TRANSIT VISION

The long-term transit vision complements the near-term transit network, identifying large-scale transit investments likely to be implemented beyond the plan's horizon. The recommendations included in the long-term transit vision focus on improvements to existing transit services: an extension of Metrorail's Red Line to Germantown and enhanced services and new stations for the MARC Brunswick Line.

Table 10 – Long-Term Transit Vision Recommendations

LONG-TERM TRANSIT**COUNTY ACTIONS**

Work with local, state, and regional partners to advance the recommendation for a Red Line Extension to Germantown Town Center.

- » Reserve and/or acquire through dedication 62 feet of space as measured from the outer southbound track of the existing CSX Brunswick Line along the Metropolitan Branch Subdivision.
- In consultation with agency partners, evaluate the steps necessary to address:
 - state of good repair and existing capacity issues within the Metrorail system's core;
 - potential upstream and downstream capacity impacts resulting from an extension along the line;
 - regional resource commitments to advance the recommendation, particularly relating to operations based on WMATA's three percent cap on annual operating subsidy increases from jurisdictions.
- » Determine what land use density and ridership targets would need to be met for WMATA to consider heavy rail service extensions to Germantown, factoring in regional draw for locations beyond the immediate vicinity of the station, including points in other jurisdictions. Update county master plans as warranted to support these targets.
- » Coordinate with CSX to confirm right-of-way needs, understand the magnitude of costs for anticipated rail operation and property impacts, and determine any operational agreements that would need to be made or adjusted to support the parallel-running service.
- » Conduct a detailed analysis of operational and maintenance facility needs and potential facility locations, to include parking needs as warranted, accounting for contextual challenges associated with what would likely be a locally unwanted land use. Coordinate with the Federal Government regarding the future of the Department of Energy site, which may be a viable location for combined government offices and operation and maintenance facilities.
- » Determine a refined estimate of total project costs, operating expenses, and projected benefits.

Support the long-term potential of the Maryland Transit Administration MARC Rail Brunswick Line.

- » Obtain 25-foot-wide land dedications adjacent to the northbound tracks of the Brunswick Line right-of-way along the segments identified in the 2018 *MARC Cornerstone Plan*.
- » Support the state's Brunswick Line Master Plan, which will identify short-term, mid-term, and long-term service enhancements and the infrastructure improvements required to achieve them. Ensure M-NCPPC participation in development of the plan.

Promote strategic and equitable MARC Rail access by supporting new stations.

- » Support the 2010 *White Flint Sector Plan* recommendation to construct an additional MARC station within the vicinity of White Flint and the 2021 *Shady Grove Sector Plan* recommendation for an additional MARC station at Shady Grove. Prioritize the White Flint station.
- » If CSX maintains its current policy that no new station can be added without the removal of an existing station or provision of additional main line track, develop a plan or strategy to support the elimination of service at underutilized stations in order to advance new stations projected to have greater network value.

Red Line Extension

The long-term transit vision includes an extension of WMATA's Metrorail Red Line to Germantown Town Center, potentially including stops at Olde Towne Gaithersburg, MD 124/Fairgrounds, and Germantown Town Center (Figure 5).¹ An extension of the Red Line to Germantown Town Center provides an opportunity to deliver the region's highest-quality transit service to areas of the county with significant, and growing, population densities. According to *Montgomery County Trends: A Look at People, Housing, and Jobs Since 1990*, the largest increases in population and population density over the last three decades have occurred in communities along the I-270 corridor, including the vicinities of Gaithersburg, Germantown and Clarksburg, consistent with the 1964 General Plan's vision for focused growth within corridor cities along I-270. In addition to serving the existing and growing population, an extension of the Red Line also performed the best among the studied options at increasing regional transit trips, decreasing vehicle miles traveled, connecting all populations, including residents of Equity Focus Areas, to jobs, and potentially influencing growth patterns.

As discussed in Chapter 4, extending the Red Line is not an immediately realistic proposition for numerous reasons. WMATA has indicated that it will not support extensions until the safety and state-of-good-repair needs of the Metrorail core are addressed. WMATA also has planning-level criteria that assess the viability of Metrorail extensions and today the extension does not satisfy these criteria.²

In addition, as the Red Line Extension advances through subsequent environmental reviews, alternative alignments and stop locations may be studied, but service to Germantown Town Center should remain a priority.

An extension of the Red Line has been studied, generally in a cursory fashion, in various planning and NEPA efforts dating back to the 1970s. The rationale for not pursuing the option has varied across stakeholder groups and periods of study. Today, skeptics point to the magnitude of upfront capital costs, coordination with CSX, right-of-way impacts, and the core service

resource hurdles that WMATA must address as significant constraints. This Plan agrees that these are real constraints. It acknowledges that the county should not turn a blind eye to costs, but it should also not turn a blind eye to opportunity costs. The Plan's evaluation demonstrates the equity benefits, job access benefits, and climate benefits associated with an extension justify more serious consideration. Furthermore, the historical performance of land around WMATA's heavy rail stations suggests that rail offers a highly reliable means of stimulating compact mixed-use growth.

The county has successfully worked with regional stakeholders to advance important transit facilities, like the existing Red Line and advancing Purple Line. While realizing these facilities was no simple task and took decades, the county is more livable today because of the work of previous regional transit champions. This Plan lays the groundwork for new champions to emerge.

Enhanced MARC Rail

The long-term transit vision includes improvements to MARC Rail along the Brunswick Line, including reducing headways to 15 minutes, implementing reverse commute service, adding midday service, and constructing new stations. Improving MARC service is expected to require an additional mainline track for 45 miles of the rail corridor.

To advance service improvements, the Plan recommends obtaining 25-foot-wide land dedications adjacent to the northbound tracks of the Brunswick Line right-of-way along the segments identified in the 2018 *MARC Cornerstone Plan* and supporting the state's *Brunswick Line Master Plan*, which will identify short-term, mid-term, and long-term service enhancements and the infrastructure improvements required to achieve them.

¹ Stops listed were studied in the Plan's technical analyses. Stop locations will be determined through future analyses and would require municipal support and coordination.

² In 2015 WMATA developed low, medium, and high threshold targets for various services. For suburban Metrorail expansions, these include:

- Households per Acre: Low <12; Medium 12-18; High >18
- Employment per Acre: Low <19; Medium 19-26; High >26
- Ridership per Mile: Low <3,500; Medium 3,500-7,000; High >7,000
- WMATA Built Environment Walkshed Rating (similar to the Montgomery Planning's Pedestrian Level of Comfort Analysis): Low; 50% connected; Medium 50%-65% connected; High >65% connected

The Plan recommends new MARC stations in Shady Grove and White Flint, consistent with the existing recommendations in the 2021 *Shady Grove Sector Plan* and 2010 *White Flint Sector Plan*. Of these two stations, a new MARC station at White Flint should be prioritized. If CSX maintains its current policy that no new station can be added without the removal of an existing station or provision of additional main line track, it will be necessary to develop a plan or strategy to support the elimination of service at underutilized stations in order to advance new stations projected to have greater network value.

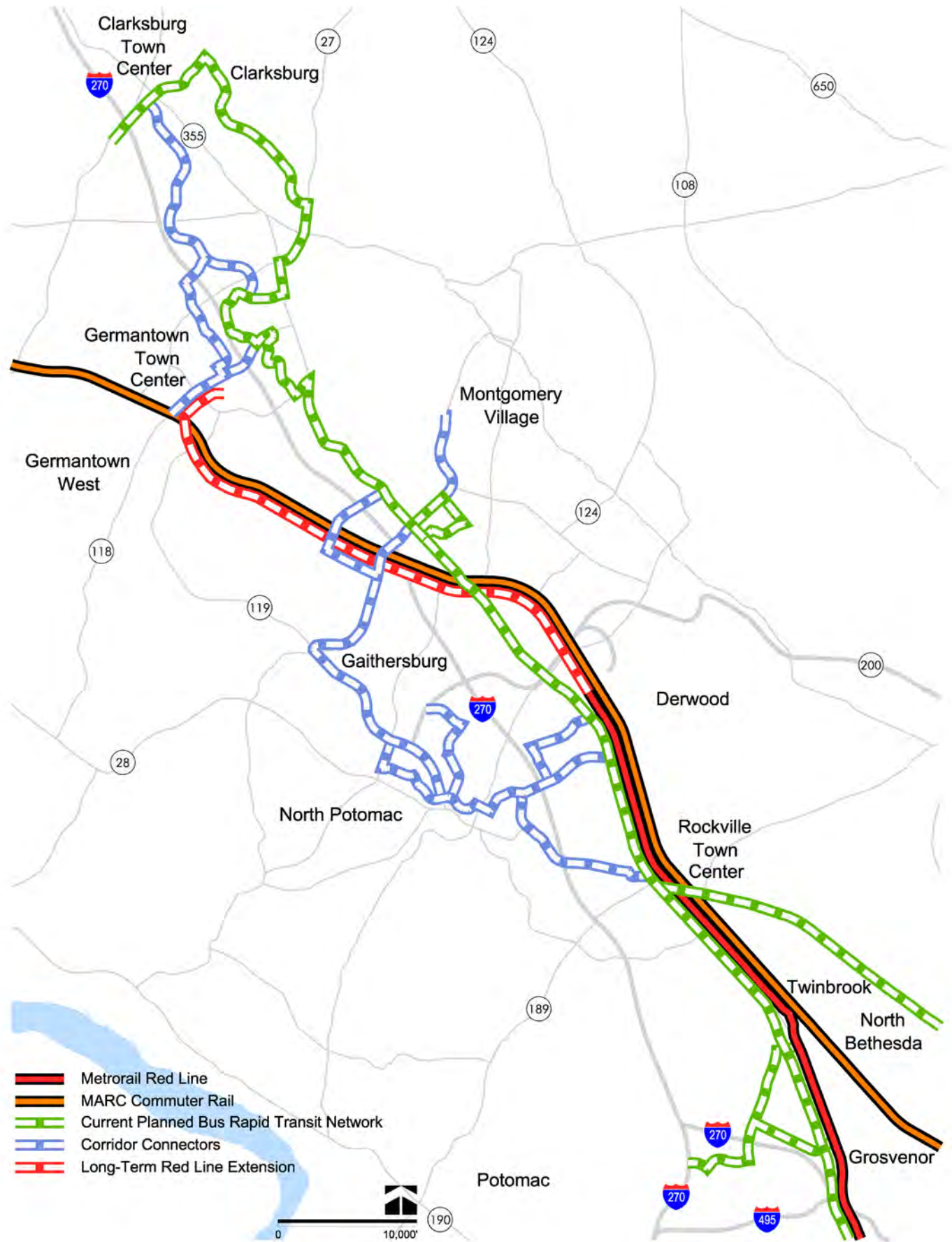
Necessary infrastructure improvements to enhance MARC Rail are expected to be both costly and challenging. Even before accounting for the line's anticipated 78 grade crossings (which include overpasses, underpasses, and pedestrian facilities),

the Plan estimates substantial capital and renewal costs for the option. Given that the railroad has been operational for over a century, several sites and districts along the corridor have been designated as historic, and the additional main line track could potentially impact over 40 locations with some form of existing or planned historic designation.

Most importantly, CSX Transportation owns the majority of the rail tracks used by the MARC Rail Brunswick Line (including the Old Main Line Subdivision between Point of Rocks and Frederick Junction, excluding the Frederick Branch between Frederick Junction and downtown Frederick) adding complexity into the implementation outlook for proposed enhancements. Infrastructure improvements would require discussions and negotiations with CSX, which would certainly require limitations to—and mitigations for—any freight service disruption.



Figure 5 – Long-Term Vision



SUPPORTING RECOMMENDATIONS

Supporting recommendations enhance the benefits of the near-term transit network and long-term transit vision. These recommendations focus on prioritizing investments in transit over those that increase auto capacity, safe and convenient access to transit, land use that supports premium transit, and strategies to expedite implementation and maximize the utility of the planned dedicated bus lanes.

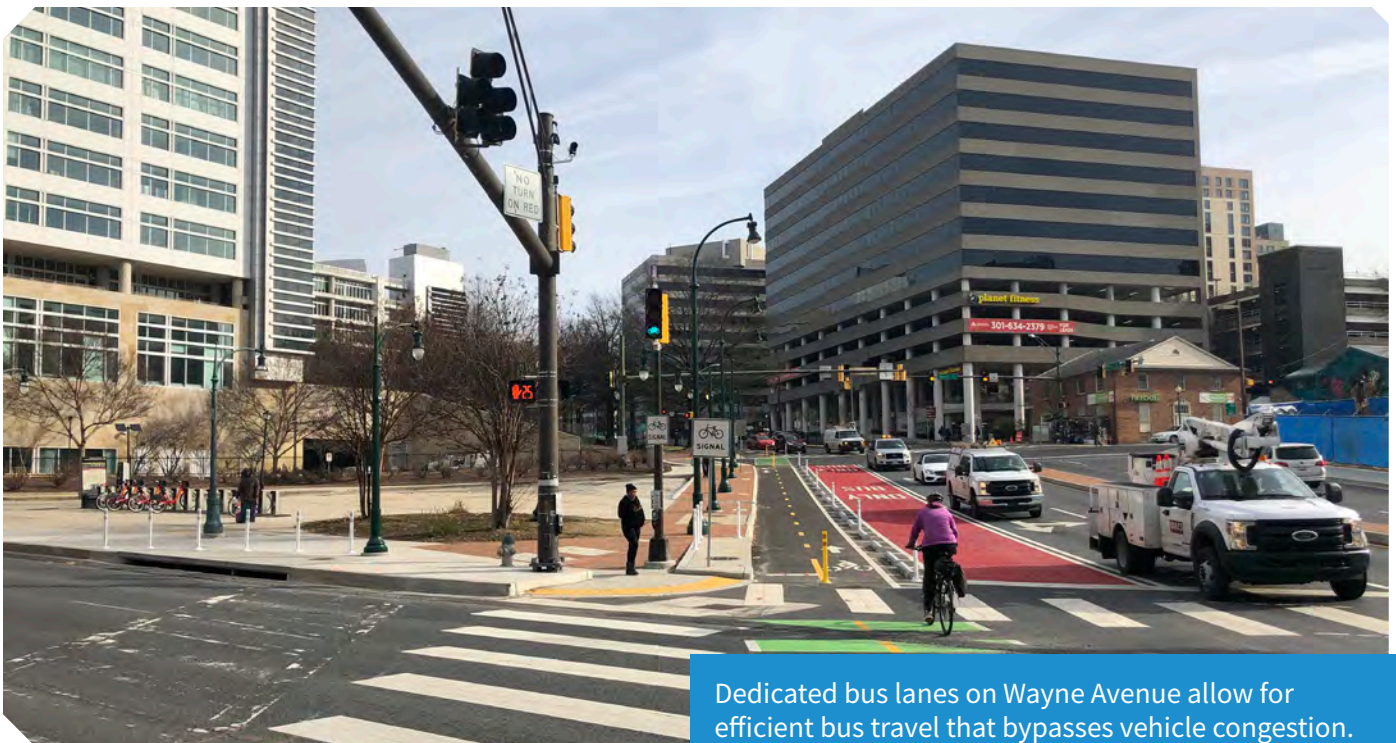
It may be challenging in some locations to acquire right-of-way for the county's master-planned dedicated bus lanes network due to the development potential of proximate land use. For example, it can be challenging to acquire new right-of-way in locations where existing townhouse communities or single-family homes are located. In some cases, it may be more feasible and cost-effective to reallocate right-of-way capacity to support the implementation of transit. Reallocating right-of-way often improves the competitiveness of transit, which can travel more rapidly and reliably when provided with its own infrastructure.

The Plan recommends that safe and comfortable bicycle and pedestrian access to transit facilities be

implemented concurrent with the transit facilities themselves. In addition, Corridor Forward supports intermodal connectivity. During the subsequent planning for the Red Line's extension, this Plan recommends the development of a multimodal station that integrates MARC Rail, Metrorail, and bus modes.

From a land-use perspective, the Plan recommends updating relevant plans and guidelines to support compact, transit-oriented development patterns within the station areas. Acknowledging that transportation investments can be associated with rising rents, the Plan recommends creating affordable housing and preserving small businesses along the corridor.

To support implementation of the transit network, the Plan recommends a key shift in the approach to moving projects forward. Segments of the transit network have independent utility and can support various service patterns and targeted local bus services. Rather than waiting to compete for large funding opportunities when they become available, segments of the ultimate network can and should be implemented incrementally as funds allow.



Dedicated bus lanes on Wayne Avenue allow for efficient bus travel that bypasses vehicle congestion.

Table 11 – Supporting Recommendations

RECOMMENDATIONS	COUNTY ACTIONS
<p>Convert existing general-purpose travel lanes to dedicated transit lanes on targeted streets to maximize person throughput and improve the relative travel time competitiveness and convenience of transit, including—but not limited to—the streets detailed in the right-of-way table.</p>	<ul style="list-style-type: none"> » Convert existing auto travel lanes to dedicated transit lanes to advance the transit network. » Modify congestion standards to include a BRT station designation between that of Metrorail station areas (120 seconds) and local bus (80 seconds). » Continue to explore and prioritize other locations in the corridor where local bus service can be enhanced through the provision of express bus lanes, queue-jumps, and other facilities.
<p>Prioritize the provision of dedicated transit lanes and spaces for walking, bicycling and other micromobility modes over auto capacity to maximize person throughput and improve the relative travel time competitiveness and convenience of transit.</p>	<ul style="list-style-type: none"> » Limit the addition of non-transit travel lanes in areas defined by the Complete Streets Design Guide as Downtowns and Town Centers, to be confirmed through future master plans. » Address fee-in-lieu and alternate development mitigation when projects demonstrate impacts to the convenience of automobile travel in an update to the Growth and Infrastructure Policy or Local Area Transportation Review.
<p>Develop a multimodal transit hub within the vicinity of Metropolitan Grove as part of implementation of the Red Line Extension to serve local bus, BRT, Metrorail, and MARC services.</p>	<ul style="list-style-type: none"> » If the Red Line Extension advances into construction, coordinate with MCDOT, MARC Rail, and WMATA, to ensure convenient transfers between the different transit services at the station.
<p>Ensure safe and efficient access to planned transit stops for pedestrians, bicyclists, and other micromobility modes.</p>	<ul style="list-style-type: none"> » As long-range planning and implementation planning (NEPA and facility planning) progress, explore opportunities to create new Bicycle and Pedestrian Priority Areas (BiPPAs) and red Metro Station Policy Areas (MSPAs) to support new premium services. » Provide buffered sidewalks, protected crossings, bicycle facilities, and lighting to serve new master-planned facilities' stops and stations. » Include bicycle and scooter parking facilities in the ultimate design of all new master-planned stops and stations at the rate and size specified in the <i>Bicycle Master Plan</i> (Appendix G). » Ensure access to all master planned transit stops is ADA accessible within a half-mile. » Develop countywide pedestrian and bicycle delay standards to limit crossing delay for pedestrians, bicycles, and other micromobility users, to be applied within a half-mile of a master-planned facility's transit stop or station. » During station design, consider how to safely provide and accommodate transfers from on-demand services like ridesharing to transit stations and stops, as appropriate based on context.

Update relevant land use plans and guidelines to support master-planned transit facilities.

- » Update master plans and sector plans, including, but not limited to, the *Great Seneca Science Corridor Master Plan*, the *Germantown Sector Plan*, and the *MARC Rail Communities Sector Plan*, in support of incentivizing compact, transit-oriented development patterns.
- » Identify and zone the locations of transit operations and maintenance facilities for the recommended transit network and integrate recommended locations for these needs into applicable plan's land-use vision.
- » Prioritize use of land at existing and master planned stations for transit-oriented development, minimizing space dedicated to bus storage and layover.
- » Create affordable housing and preserve small businesses in areas where new transit may increase rents. Increase affordable and diversity of housing types in areas already served by transit along the corridor.
- » Update the Complete Streets Design Guide, adding a “transit” overlay or “transit street” typology addressing transit-specific design elements.

Where beneficial and/or necessary, support the incremental implementation of dedicated bus lanes.

- » When and where necessary, break larger transit projects into more easily implemented components—when such components offer independent utility—to support the ultimate build-out of the network.
- » Facilitate all funding and implementation opportunities—large and small—that support the ultimate build-out of the infrastructure network.

Maximize the travel potential of dedicated bus lanes.

- » Develop policy guidelines on the use of dedicated bus lanes to allow local bus, shuttles, etc. in appropriate contexts and manners that do not degrade rapid services.



Safe and comfortable pedestrian and bicycle access is crucial to a successful transit system.

REGIONAL OPPORTUNITIES

While many trips within Montgomery County both start and end in the county, many residents and employees commute across county lines, to or from the District of Columbia, Prince George's County, and other regional jurisdictions. The recommendations in this section strengthen connections to neighboring jurisdictions where premium transit is not currently provided, specifically Fairfax County, VA, and Frederick County, MD.

First, the Plan recommends that the county consider and evaluate options for a future Purple Line extension west of Bethesda, including alignments that extend into Northern Virginia. Metrorail travel times between Bethesda and Tysons are 70 minutes with the current network, but a Purple Line extension could reduce this connection to a 22-minute ride during the peak period.

Second, redesign and replacement of the American Legion Bridge across the Potomac River is planned as part of the managed lanes highway expansion project. The existing bridge, which carries I-495 traffic, does not currently provide rail transit. The Plan recommends that the redesigned bridge accommodate rail transit, in order to provide flexibility for future transit investments. While this Plan does not explicitly recommend a rail transit service over the American Legion Bridge, the lifespan of a bridge far exceeds the lifetime of this Plan.

Lastly, a portion of Montgomery County employees commute from Frederick County. The Plan recommends supporting efforts led by Frederick County to provide a transitway between the two counties.

Table 12 – Regional Opportunities Recommendations

REGIONAL OPPORTUNITIES	COUNTY ACTIONS
Study extensions of the Purple Line to understand if and where extension(s) of the county's light rail service may be warranted.	<ul style="list-style-type: none"> >> Add an initial study to Montgomery Planning's work program to assess travel demand between locations along the under-construction Purple Line and potential points of demand, including, but not limited to, the National Institutes of Health, Rock Spring, Tysons, Georgetown/Rosslyn, and Arlington. >> Coordinate with jurisdictions, as relevant and if warranted following the initial study, to scope further technical feasibility analyses that explore potential extension alignments, their costs, and their benefits.
Design and construct the American Legion Bridge to support rail transit.	<ul style="list-style-type: none"> >> Advocate for an American Legion Bridge design that can structurally accommodate the rail transit needs of the future.
Explore a direct transitway connection between the recommended WMATA Metrorail Red Line terminus and Frederick City.	<ul style="list-style-type: none"> >> If Frederick County includes this new, direct transit connection in an update to their Transit Development Plan, support others' efforts by recommending alignments and stations for any portion of a direct service that falls within Montgomery County. >> Participate as a cooperative stakeholder in others' study and design efforts.

Line Station

Purple Line

CONNECT TO
EDUCATION

CONNECT TO
HEALTH & FITNESS

CONNECT TO
TRANSIT LINKS

CONNECT TO
RECREATION

CONNECT TO
HOMES



Direct, Reliable Transit
New Carriage
with connections
& Orange Line
Amtrak tracks

Future Silver Spring
Library Station





SIX CONCLUSION

Corridor Forward offers answers to three questions:

1. From the perspective of the county, which transit options in the public sphere offer the greatest benefits and should be prioritized?
2. Which transit options complement each other, supporting both local and regional transit access?
3. What elements are needed for a transit-oriented vision to advance?

This Plan maintains and recommits to a vision for rapid transit in midcounty and upcounty. The Plan supports regional connectivity—particularly by demonstrating the regional benefits of a Red Line Extension and enhancements to MARC Rail—but also acknowledges the importance of a near-term locally oriented network of dedicated bus lanes. Once implemented, the transit network will serve existing corridor communities and connect them with areas planned for compact growth and further the county’s equity, environment, and economic goals.

Corridor Forward updates the corridor’s near-term transit vision by shifting the focus from single branded services, like the CCT, to a flexible network of dedicated bus lanes that can support multiple routing patterns. Dedicated bus lanes do not need to be restricted to a single purpose, and the county can incrementally advance components of the transit network. After the completion of the MD 355 and Veirs Mill Road BRT systems, the county can and should advance a few dedicated bus lane segments at a time in order to achieve the Plan’s vision.

An extension of WMATA’s Metrorail Red Line to Germantown Town Center and improvements to MARC Rail service may take time to be realized, as the county will need to lift its vision over several hurdles, but the ultimate benefits should encourage the county to face these challenges and further advance its transit commitment. Both near and long-term elements of Corridor Forward can be achieved with support, advocacy, commitment, and focus.



Resolution No.: 19-1207
Introduced: April 5, 2022
Adopted: April 5, 2022

**COUNTY COUNCIL FOR MONTGOMERY COUNTY, MARYLAND
SITTING AS THE DISTRICT COUNCIL FOR THAT PORTION
OF THE MARYLAND-WASHINGTON REGIONAL DISTRICT
WITHIN MONTGOMERY COUNTY, MARYLAND**

Lead Sponsor: County Council

SUBJECT: Approval of Corridor Forward: The I-270 Transit Plan

1. On January 7, 2022, the Montgomery County Planning Board transmitted to the County Executive and the County Council the Planning Board Draft of Corridor Forward: The I-270 Transit Plan.
2. The Planning Board Draft of Corridor Forward: The I-270 Transit Plan contains the text and supporting maps for an amendment to the 2013 Countywide Transit Corridors Functional Master Plan and the 2018 Master Plan of Highways and Transitways. It also amends The General Plan (On Wedges and Corridors) for the Physical Development of the Maryland-Washington Regional District in Montgomery and Prince George's Counties, as amended; the 1989 Germantown Master Plan; 1994 Clarksburg Master Plan and Hyattstown Special Study Area, as amended; 2009 Germantown Employment Area Sector Plan; 2010 Great Seneca Science Corridor Master Plan, as amended; 2014 10 Mile Creek Area Limited Amendment Clarksburg Master Plan and Hyattstown Special Study Area; 2016 Montgomery Village Master Plan; 2019 MARC Rail Communities Sector Plan; and 2021 Shady Grove Sector Plan Minor Master Plan Amendment.
3. On February 15, 2022, the County Council held a virtual public hearing on the Planning Board Draft of Corridor Forward: The I-270 Transit Plan. The Functional Master Plan was referred to the Council's Transportation and Environment Committee for review and recommendations.
4. On February 28 and March 9, 2022, the Transportation and Environment Committee held worksessions to review the issues raised in connection with the Planning Board Draft of Corridor Forward: The I-270 Transit Plan.
5. On March 22, 2022, the County Council reviewed the Planning Board Draft of Corridor Forward: The I-270 Transit Plan and the recommendations of the Transportation and Environment Committee.

6. On March 24, 2022, the Office of Management and Budget transmitted to the County Council the Executive's Fiscal Impact Statement for the Planning Board Draft of Corridor Forward: The I-270 Transit Plan.

Action

The County Council for Montgomery County, Maryland, sitting as the District Council for that portion of the Maryland-Washington Regional District in Montgomery County, Maryland, approves the following resolution:

The Planning Board Draft of Corridor Forward: The I-270 Transit Plan, dated January 2022, is approved with revisions. County Council revisions to the Planning Board Draft of Corridor Forward: The I-270 Transit Plan are identified below. Deletions to the text of the Plan are indicated by [brackets], additions by underscoring. All page references are to the January 2022 Planning Board Draft of Corridor Forward: The I-270 Transit Plan.

Page 5 Revise the Abstract as follows:

Corridor Forward: The I-270 Transit Plan contains an examination of and recommendations for a transit network, which includes both a near-term network of dedicated bus lanes and a long-term [recommendation for] vision of an extension of Metrorail's Red Line and enhanced MARC service along the Brunswick Line. The near-term network of dedicated bus lanes builds on existing master planned projects, including the MD 355 and Veirs Mill Road Bus Rapid Transit (BRT) projects to create a transit network that serves communities and employment centers along the I-270 corridor. Corridor Forward re-envision the master planned Corridor Cities Transitway as a network of dedicated bus lanes, which connect the I-270 corridor communities to the county's existing and planned rapid transit network.

Corridor Forward is a functional master plan that looks ahead 25 years from the date of adoption. [The Plan's first priority is the immediate implementation of the MD 355 BRT and Veirs Mill Road BRT. The Plan's second priority is the Corridor Connectors, and the third priority is the Red Line Extension.] This Plan recommends the MD 355 BRT and Veirs Mill Road BRT as the most crucial first steps in improving transit accessibility along the I-270 corridor. Incremental implementation of the Corridor Connectors and pursuit of actions to advance the Red Line [E]extension and MARC commuter rail enhancements are envisioned over the Plan's horizon.

Page 7 Revise the first sentence of the third paragraph in Chapter 1 – Executive Summary as follows:

In response, Corridor Forward: The I-270 Transit Plan offers a refocused vision for the corridor. It proposes a transit network, which includes [a] near-term recommendations for dedicated bus lanes and [a] long-term recommendations for an extension of Metrorail's Red Line and enhancements to MARC commuter rail along the Brunswick Line.

Page 7 Revise the fourth paragraph in Chapter 1 – Executive Summary as follows:

The [proposed] transit network was determined through an iterative planning process, which began with the identification of general stakeholder values and priorities pertaining to transit, as well as an inventory and initial evaluation of potential transit options. Next, metrics were developed to consider the cumulative benefits, costs, and risks of six compelling transit options retained for detailed analysis. Based on performance, implementation, and policy considerations, components of three of the six transit options were combined and subsequently evaluated to develop the [proposed] transit network.

Page 7 Revise the subsection of The Proposed Network as follows:

[THE PROPOSED NETWORK] PLAN RECOMMENDATIONS

The Plan recommendations are organized into four groups: Near-Term Transit Network, Long-Term Transit Vision, Supporting Recommendations, and Regional Opportunities.

Page 7 Revise the subsection title for Near-Term Dedicated Bus Lanes:

Near-Term [Dedicated Bus Lanes] Transit Network

Page 8 Revise the second paragraph the subsection Near-Term Dedicated Bus Lanes as follows:

The [complete proposed] transit network, with additional dedicated bus lanes beyond the MD 355 and Veirs Mill Road BRT services, is shown in Figure 1. This network augments the planned BRT routes in midcounty and upcounty to maximize connectivity, reduce implementation obstacles, and unlock multiple community-serving service patterns. The [proposed] transit network's dedicated bus lanes can serve as individual dedicated bus lanes (if implemented in a piecemeal fashion following the MD 355 and Veirs Mill Road BRTs) and as a network, providing significantly improved transit connectivity for communities in the midcounty and upcounty once they are fully constructed. Corridor Forward shifts the focus from single branded services, like the CCT, to a flexible network of Corridor Connectors - dedicated bus lanes that can support multiple routing patterns. Dedicated bus lanes do not need to be restricted to a single purpose or route, and the county does not need to wait to fund the full system to advance components of the [proposed] Corridor Connectors. The recommended Corridor Connectors are listed below:

Page 8
follows:

Replace the remainder of the subsection Near-Term Dedicated Bus Lanes as

[The Plan's ultimate success is demonstrated through implementation of the proposed transit network. As the network may be implemented incrementally, Corridor Forward suggests priorities for the order of implementation, as well as strategies to advance implementation. The Plan's highest priorities for implementation are the MD 355 and Veirs Mill Road BRT services, followed by the Corridor Connectors in the following order:

- The Germantown and Life Sciences Connectors
- The Lakeforest/Montgomery Village Connector
- The Great Seneca Connector
- The Manekin West Connector
- The Milestone/COMSAT East Clarksburg Connector]

- The Rockville Connector
- The Life Sciences Connector
- The Crown Connector
- The Great Seneca Connector
- The Lakeforest/Montgomery Village Connector
- The Germantown Connector
- The Manekin West Connector
- The Milestone/COMSAT East Clarksburg Connector

The Plan supports the implementation of the Great Seneca Transit Network, prioritizing investments that increase frequencies and provide meaningful travel time benefits for transit users. This network, proposed by the Montgomery County Department of Transportation (MCDOT), envisions a series of new local bus routes serving the Great Seneca vicinity. These routes are enhanced with operational improvements such as transit signal priority, queue jumps, and express bus lanes. In addition, the Corridor Connectors can be used by commuter bus services to support off-highway diversions to key points of demand. In this regard, the infrastructure becomes multifunctional. Also, while not studied extensively in this Plan, the recommendations include continued support for the North Bethesda Transitway.

Page 8

Revise the subsection Long-Term Extension of the Red Line as follows

Long-Term [Extension of the Red Line] Transit Vision

In addition to the [Corridor Connectors] Near-Term Transit Network, the [proposed] Plan [transit network] also includes [a] recommendations for a long-term extension of the Washington Metropolitan Area Transit Authority's (WMATA) Metrorail Red Line to Germantown Town Center and enhancements to the Maryland Area Regional Commuter (MARC) Brunswick Line. [This long-term

extension is] These long-term transit investments are ambitious due to the additional detailed [analysis] analyses required, the magnitude of coordination, and existing WMATA and MARC priority projects. For example, the work that must be done within the core of the existing Metrorail system, [all of which] must be addressed prior to advancing [the recommendation] an extension of the Red Line. [This Plan identifies several specific factors that require coordination for the long-term extension to advance.]

Page 8

Add two new subsections under The Proposed Network as follows:

Supporting Recommendations

Beyond the proposed transit network itself, Corridor Forward offers additional recommendations that support the proposed transit network and strengthen the potential to advance local and regional transit connectivity.

Regional Opportunities

The Plan includes recommendations that focus on connections to adjacent jurisdictions, such as Frederick County and Fairfax County, Virginia. Recommendations include studying an extension of the Purple Line west of Bethesda, designing the American Legion Bridge to support rail transit, and exploring a direct transitway connection to Frederick City.



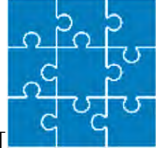



Page 10

Revise the section Additional Recommendations as follows:








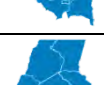





[ADDITIONAL RECOMMENDATIONS] RECOMMENDATIONS SUMMARY






[Beyond the proposed network, Corridor Forward offers additional recommendations that support the proposed transit network and strengthen the potential to advance local and regional transit connectivity.] County actions accompany each of these recommendations, which are organized by [priority] category and champion—meaning which jurisdiction(s) would likely take the lead on advancing a recommendation given the anticipated benefits. As shown in Table 1, champions to advance recommendations include both Montgomery County as well as multiple stakeholders within the region. [explains how recommendations are organized.] Table 2 provides the complete set of recommendations that strengthen the proposed network and support regional connectivity.

Revise Table 1 as follows:

[Priority]		
[Primary Recommendation]	[Supporting Recommendation]	[Future Need or Consideration]
		
[Primary recommendations are the Plan's foundational recommendations. These recommendations represent the Plan's ultimate vision for Corridor accessibility.]	[Supporting recommendations strengthen the advancement and quality of the Plan's primary recommendations.]	[Future needs or considerations are recommendations that, while lower in priority, support long-term regional connectivity.]
Champion		
Montgomery County	Shared by County and Others	[Primarily Others]
		
Montgomery County government is the lead agency responsible for advancing a recommendation, and the county's constituents stand the most to gain from a recommendation's advancement.	Multiple parties within the region, including Montgomery County government, are necessary to advance a recommendation. Benefits are relatively distributed across various regional stakeholders.	[Montgomery County government can cooperate and support the advancement of a recommendation, but the lead stakeholder is not Montgomery County government. Montgomery County's constituents stand to gain from the recommendation, but benefits may be greater for other parties.]

Remove Table 2 – Summary of Recommendations and replace with the following table:

Recommended Near-Term Transit Network	Champion
A. Implement the MD 355 BRT and Veirs Mill Road BRT.	
B. Implement the Corridor Connectors, a network of dedicated bus lanes in the midcounty and upcounty, which include refinements to the Corridor Cities Transitway.	
C. Support the Great Seneca Transit Network.	
D. Support the North Bethesda Transitway alignment as master-planned.	
E. Continue state-provided commuter bus service on I-270, making use of the Corridor Connectors when diverting to bus stations in Montgomery County's population and employment centers via the Corridor Connectors.	
Recommended Long-Term Transit Vision	Champion
F. Work with local, state, and regional partners to advance the recommendation for a Red Line Extension to Germantown Town Center.	
G. Support the long-term potential of the Maryland Transit Administration MARC Rail Brunswick Line.	
H. Promote strategic and equitable MARC Rail access by supporting new stations.	
Supporting Recommendations	Champion
I. Convert existing general-purpose travel lanes to dedicated transit lanes on targeted streets to maximize person throughput and improve the relative travel time competitiveness and convenience of transit, including—but not limited to—the streets detailed in the right-of-way table.	
J. Prioritize the provision of dedicated transit lanes and spaces for walking, bicycling and other micromobility modes over auto capacity to maximize person throughput and improve the relative travel time competitiveness and convenience of transit.	
K. Develop a multimodal transit hub within the vicinity of Metropolitan Grove as part of implementation of the Red Line Extension to serve local bus, BRT, Metrorail and MARC services.	
L. Ensure safe and efficient access to planned transit stops for pedestrians, bicyclists, and other micromobility modes.	
M. Update relevant land use plans and guidelines to support master-planned transit facilities.	

N. Where beneficial and/or necessary, support the incremental implementation of dedicated bus lanes.	
O. Maximize the travel potential of dedicated bus lanes.	
Regional Opportunities	Champion
P. Study extensions of the Purple Line to understand if and where extension(s) of the county's light rail service may be warranted.	
Q. Design and construct the American Legion Bridge to support rail transit.	
R. Explore a direct transitway connection between the recommended WMATA Metrorail Red Line terminus and Frederick City.	

Page 13

Remove the two paragraphs on page 13:

[While this Plan focuses on infrastructure and not operational improvements, it also supports two additional key services as noted in recommendations G and H. First, the Plan supports the implementation of the Great Seneca Transit Network, prioritizing investments that increase frequencies and provide meaningful travel time benefits for transit users. This network, proposed by the Montgomery County Department of Transportation (MCDOT), envisions a series of new local bus routes serving the Great Seneca vicinity. These routes are enhanced with operational improvements such as transit signal priority, queue jumps, and express bus lanes. Second, the Corridor Connectors can be used by commuter bus services to support off-highway diversions to key points of demand. In this regard, the proposed infrastructure becomes multifunctional. Also, while not studied extensively in this Plan, recommendation K discusses continued support for the North Bethesda Transitway.

Corridor Forward extensively studied MARC Rail Enhancements as contemplated in the Maryland Transit Administration's (MTA) MARC Cornerstone Plan (2018). Recommendations M and N call for continued support of the long-term potential of MARC Rail. This plan maintains the recommendation to obtain right-of-way for additional mainline track during the development process and advocates for already master-planned stations at Shady Grove and White Flint.]

Page 15

Revise the second bullet:

- Planned concepts are often advanced without strategic or flexible implementation strategies, inviting opportunities for perpetual tweaks and reenvisioning. This topic is addressed in the narrative of Chapter 5 [and recommendations of Chapter 6].

Page 15 Remove the third bullet:

- [Historically, the county's policies supported convenient automobile travel without a comparable emphasis on implementing high-quality transit. Commitment is required to not only implement transit but ensure that it is successful and competitive with driving. This topic is addressed throughout the Plan's recommendations, but significant focus is provided on this issue in the recommendations in Chapter 6.]

Page 19 Revise the sixth bullet:

- [Span of service spectrum] Geographic Coverage: Some modes typically provide [greater spans of service] longer distance services, traversing regions rather than localities. Other modes provide more locally-focused service.

Page 19 Revise the fourth sentence in the last paragraph of the subsection When Everything is a Priority...:

Metrorail and BRT modes fall somewhere in the middle of the access-efficiency and [span of service] geographic coverage spectrums.

Page 22 Revise the first sentence of the page as follows:

[Per Planning Board direction, t]The top performing options advanced for further analysis were:

Page 23 Retitle Chapter 4 - Initial Evaluation:

[INITIAL] OPTIONS EVALUATION

Page 23 Revise the first paragraph of Chapter 4 – Initial Evaluation:

This chapter provides information and insight regarding the performance of the six options that advanced for further technical analysis. [Three of the six options—the Corridor Cities Transitway, the Managed Lanes Enhanced Commuter Bus, and the Red Line Extension—demonstrated merit, warranting inclusion in further Plan analyses. Montgomery Planning further examined components of these three options as larger networks. This chapter includes recommendations related to the three services that were not included in the Plan's network studies, which include Enhanced MARC Rail, a New Frederick Rail Connection, and the Purple Line Extension. Each of these options offers long-term benefits and may warrant implementation following the build-out of the prioritized network.]

Page 23 Remove the third paragraph in the subsection The Approach:

[The initial evaluation of the retained options suggests that the Purple Line Extension, Enhanced MARC Rail, and Frederick Rail Connection options have merit, but offer benefits that are comparably less attractive when viewed through the lens of this Plan's goal. The descriptive summaries that follow offer recommendations intended to strengthen regional connectivity that are relevant to the long-term merits of these options. The relative performance of the CCT, Managed Lanes Enhanced Commuter Bus, and Red Line Extension options resulted in the inclusion of components of these options within the Plan's proposed transit network, discussed in Chapter 5.]

Page 24 Revise the title of Table 5 – Initial Evaluation (2045):

Table 5 – [Initial] Options Evaluation (2045)

Page 24 Revise the last paragraph in the subsection Purple Line Extension as follows:

Other alignments—for example, one that travels along Old Georgetown Road to Rock Spring via the National Institutes of Health, Suburban Hospital, and Montgomery Mall—might yield greater benefits. [While this Plan does not prioritize the studied alignment, it recommends that the county consider and maintain options for a future Purple Line Extension, including potential alignments that extend into Northern Virginia. The Plan makes the following recommendations to support this consideration:]

Page 25 Remove Table 6 – Purple Line Extension Recommendations.

Page 26 Remove the last four paragraphs in the subsection Enhanced MARC Rail as follows:

[Compared with other options, Enhanced MARC Rail increases access to the smallest number of corridor jobs, both generally and for Equity Focus Area communities and is less successful than the direct Frederick Rail Connection option at reducing VMT and carbon emissions.

Necessary infrastructure improvements to enhance MARC Rail are both costly and challenging. Even before accounting for the line's anticipated 78 grade crossings (which includes overpasses, underpasses, and pedestrian facilities), the Plan estimates substantial capital and renewal costs for the option. Given that the railroad has been operational for over a century, several sites and districts along the corridor have been designated as historic, and the additional main line track could potentially impact over 40 locations with some form of existing or planned historic designation.

Most importantly, CSX Transportation owns the majority of the rail tracks used by the MARC Rail Brunswick Line (including the Old Main Line Subdivision between Point of Rocks and Frederick Junction; excluding the Frederick Branch between Frederick Junction and downtown Frederick) adding complexity into the implementation outlook for proposed enhancements. Infrastructure improvements would require discussions and negotiations with CSX, which would certainly require limitations to—and mitigations for—any freight service disruption.

At the time of this writing, the potential of the state’s commuter rail services has been a topic of significant state and local policymaking interest. Within the county, forecasted gains are modest for communities that are not well-connected to the county’s high-quality transit network. While enhancements to the MARC Rail Brunswick Line are not a priority within the Plan’s recommended transit network, Corridor Forward recommends maintaining the existing service and supports the long-term potential of the MARC Rail Brunswick Line. The Plan cautions the need to maintain realistic expectations for future enhancements based on constraints.]

Page 27 Remove Table 7 – Enhanced MARC Rail Recommendations.

Page 28 Remove Table 8 – Frederick Rail Connection Recommendation.

Page 31 Remove Table 10 – Managed Lanes Enhanced Commuter Bus Recommendation.

Page 32 Remove the subsection Performance Outcomes

[PERFORMANCE OUTCOMES

The Plan’s transit options evaluation demonstrates the comparative benefits and costs of studied options. The Managed Lanes Enhanced Commuter Bus and Red Line Extension options offer benefits to both the county and region, while the CCT improves local access. Based on benefits derived for the county, the Plan retained these options for further evaluation, which informed the development of the proposed transit network.]

Page 33 Replace Chapter 5 – Proposed Transit Network and Chapter 6 – Implementation Strategies as follows:

Corridor Forward establishes a near-term transit network for the I-270 corridor, complemented by a long-term transit vision. The near-term and long-term networks are supplemented by additional recommendations focused on supporting and enhancing the transit network and strengthening connections to adjacent jurisdictions. The Corridor Connectors, in combination with local and commuter bus, bus rapid transit, and rail create a complete transit network for the midcounty and upcounty that serves existing and planned land use as well as provides a viable alternative to travel by car for trips among neighborhoods, centers of activity, and destinations within the region.

Table 7 and Tables 10 to 12 outline the Plan’s recommendations. The Plan’s ultimate success is demonstrated through implementation of its recommendations. As a result, each recommendation includes action steps towards advancing implementation.

NEAR-TERM TRANSIT NETWORK


The near-term network builds on existing master-planned projects, such as the MD 355 and Veirs Mill Road BRT projects, through new dedicated bus lanes—referred to as the Corridor Connectors. The Corridor Connectors re-envision the previously master-planned CCT as a network of more buildable dedicated bus lanes, which connect I-270 corridor communities to the county’s existing and planned rapid transit network.





Master-Planned BRT Services

This Plan recommends the MD 355 and Veirs Mill Road BRT services as the most crucial first step in improving corridor accessibility. MD 355 functions as the county’s primary north-south rapid transit corridor, and Viers Mill Road provides a crucial link between Wheaton and Rockville. These routes offer connections to high-quality services like Metrorail and the MARC Rail Brunswick Line, as well as other planned BRT services. The dedicated bus lanes included in the Corridor Connectors connect to these services, creating a network with numerous service pattern opportunities. While current planning and design work for these two services does not envision bidirectional dedicated bus lanes on all planned segments, this Plan supports the implementation of interim conditions (peak hour dedicated bus lanes, queue jumps, some mixed-traffic segments, etc.) where necessary, but maintains and recommends bidirectional dedicated bus lanes for these services as the ultimate vision.

In addition to the MD 355 and Veirs Mill Road BRTs, the Plan recommends implementation of the North Bethesda Transitway, specifically maintaining the recommendation from the *2013 Countywide Transit Corridors Functional Master Plan*, prioritizing service to White Flint based on the county’s land use goals.

Table 7 – Near-Term Transit Network Recommendations

<u>Near-Term Transit Network</u>	<u>County Actions</u>	<u>Champion</u>
<u>Implement the MD 355 BRT and Veirs Mill Road BRT.</u>	A. <u>Secure financial support for the MD 355 BRT and Veirs Mill Road BRT; advance and construct these two key services.</u>	

<u>Near-Term Transit Network</u>	<u>County Actions</u>	<u>Champion</u>
<p><u>Implement the Corridor Connectors, a network of dedicated bus lanes in the midcounty and upcounty, which include refinements to the Corridor Cities Transitway.</u></p>	<p>A. <u>Create a new capital project for the Corridor Connectors so individual Corridor Connectors may be prioritized, and funds may be allocated.</u></p> <p>B. <u>Work with MDOT to shift funding commitments in the Consolidated Transportation Program from the CCT to the Corridor Connectors, specifically the Corridor Connectors that most align with the original CCT alignment: the Life Sciences Connector, the Great Seneca Connector, and the Milestone/COMSAT East Clarksburg Connector.</u></p> <p>C. <u>Study and demonstrate the local and regional value of the remaining Corridor Connectors: the Rockville Connector, the Crown Connector, the Lakeforest/Montgomery Village Connector, the Germantown Connector, and the Manekin West Connector.</u></p> <p>D. <u>If and when the state advances the Managed Lanes project north of I-370, advocate for access points that support connections to the Life Sciences Center, Montgomery Village/Lakeforest, and Germantown Town Center via the proposed Corridor Connectors.</u></p>	
<p><u>Support the Great Seneca Transit Network.</u></p>	<p>A. <u>Support infrastructure improvements associated with the Great Seneca Transit Network (Pink, Cobalt, Lime, and Gray Lines), prioritizing routes that either make use of or complement the Corridor Connectors.</u></p> <p>B. <u>Align the “extended network” to make use of the Corridor Connectors, including the Germantown Connector, the Montgomery Village Connector, and the Life Sciences Connector.</u></p> <p>C.</p>	
<p><u>Support the North Bethesda Transitway alignment as master-planned.</u></p>	<p>A. <u>Maintain the recommendation from the 2013 <i>Countywide Transit Corridors Functional Master Plan</i> for the North Bethesda Transitway, prioritizing service to White Flint based on the county’s land use goals.</u></p>	
<p><u>Continue state-provided commuter bus service on I-270, making use of the Corridor Connectors when diverting to bus stations in Montgomery County’s population and employment centers via the Corridor Connectors.</u></p>	<p>A. <u>Recommend the state explore opportunities to fund the Corridor Connectors as a mechanism to enhance commuter bus service, prioritizing the Germantown and Life Sciences connectors.</u></p>	

Corridor Connectors

The Corridor Connectors build upon the work of previous plans and studies associated with the county's planned BRT network and envision a system of dedicated bus lanes that, once implemented in full, can support a series of different service patterns, to be determined by operating partners at county, state, or other inter-jurisdictional levels. The transit network maximizes the potential of the MD 355 BRT and Veirs Mill Road BRT by providing branches of additional dedicated bus lanes that feed into the two services.

This Plan re-envision the previously master-planned CCT as a network of dedicated bus lanes, which connect I-270 corridor communities to the county's existing and planned rapid transit network. The proposed Corridor Connectors provide dedicated bus lanes within and among the Corridor Cities of Rockville, Gaithersburg, Germantown, and Clarksburg, and provide the opportunity for transit that is accessible, convenient, and efficient among these centers of activity. The proposed Corridor Connectors introduce an additional transit choice and a viable alternative to driving for trips within the midcounty and upcounty – fulfilling the missing link in the hierarchy of mobility needs discussed in Chapter 3.

The Corridor Connectors address both the purposes and barriers of the master planned CCT by integrating communities previously planned for service into the currently planned MD 355 and Veirs Mill Road BRT network.

In addition, these dedicated bus lanes may be used to support BRT and commuter bus service. With dedicated lanes available and proximate to the highway, commuter buses can divert into these dedicated bus lanes to access communities and activity centers more quickly and efficiently.

The Corridor Connectors represent the network of dedicated bus lanes in Great Seneca, Lakeforest, Montgomery Village, Germantown, and Clarksburg, and they include the following components:

- The Rockville Connector
- The Life Sciences Connector
- The Crown Connector
- The Great Seneca Connector
- The Lakeforest/Montgomery Village Connector
- The Germantown Connector
- The Manekin West Connector
- The Milestone/COMSAT East Clarksburg Connector

Rockville Connector

The Rockville Connector links Rockville with the Life Sciences Center, and it can be considered an extension of the dedicated bus lanes associated with the Veirs Mill Road BRT. This Plan anticipates that links between the Life Sciences Center,

the county seat in Rockville, and the significant labor pools residing in the Twinbrook and Wheaton areas may support access to and growth of the Life Sciences Center. In addition, this connector creates the opportunity for a one-seat ride to the Life Sciences Center from points southeast like Rockville Town Center, Twinbrook, and Wheaton. Analysis demonstrates that a connection to the Life Sciences Center could add as many as 5,300 new daily riders to the Veirs Mill Road BRT, many of whom reside in Equity Focus Areas along Veirs Mill Road.

The Rockville Connector includes two alternative alignments between MD 355 and the Life Sciences Connector. The first alignment runs along Gude Drive between MD 355 and Piccard Drive, while the second alignment travels along MD 28 from MD 355 to Gude Drive. The constructed alignment will be determined during the facility planning process.

Life Sciences Connector

The Life Sciences Connector links the Shady Grove Metro station with the Life Sciences Center, and it connects to the MD 355 BRT as well as the Great Seneca and Crown Connectors. If the state advances an interchange at Gude Drive as a component of the Managed Lanes project (or some other future interstate project), commuter buses running on I-270 will be able to quickly and efficiently divert from the interstate to access the Life Sciences Center via the dedicated bus lanes.

Crown Connector

The Crown Connector provides dedicated bus lanes between I-370 and the Life Sciences Connector. The dedicated bus lanes largely align with the previously master-planned CCT alignment along Decoverly Drive, Diamondback Drive, and Broschart Road. This connector provides premium transit infrastructure to Crown Farm, as well as efficient access to the Universities at Shady Grove and Adventist Health Care Shady Grove Medical Center.

Great Seneca Connector

The Great Seneca Connector extends between the terminus of the Life Sciences Connector and MD 355 at Watkins Mill Road, largely following the path of the previously master-planned CCT with slight deviations. This alignment of dedicated bus lanes connects communities and employment centers such as the National Institute of Standards and Technology (NIST) and the Kentlands into the county's larger BRT network. When joined with the Life Sciences Connector, these communities receive direct access to the Life Sciences Center employment hub, as well as the Metrorail Red Line in Rockville. Depending on the ultimate service patterns programmed by operational partners, completing the Link offers the potential to provide one-seat rides between Wheaton and NIST or Montgomery Village and the Life Sciences Center.

Two alternative alignments are provided: one alternative includes dedicated bus lanes through the Public Safety Training Academy (PSTA) and Belward Farm properties and then along Muddy Branch Road, while another option includes dedicated bus lanes along Great Seneca Highway. The alignment for the Great Seneca Connector in this location should be determined through subsequent planning processes.

Lakeforest/Montgomery Village Connector

The Lakeforest/Montgomery Village Connector runs along MD 124 from the Great Seneca Connector (which diverts from MD 124 at Clopper Road) past Lakeforest Mall to Montgomery Village. Gaithersburg's Lakeforest Mall is planned for redevelopment and the municipality has recently completed its Lakeforest Mall Master Plan. The site is currently planned to be served by the MD 355 BRT but could be further enhanced with an east-west link that connects to points of demand along MD 124. Further northeast, Montgomery Village, a relatively dense, established community, and a designated Equity Focus Area, is not well connected to premium transit. Providing service along MD 124 to integrate Montgomery Village in a direct and efficient manner to the MD 355 BRT, as well as points west and south, such as the National Institute of Standards and Technology, Kentlands, and the Life Sciences Center, will generally improve access for this underserved community.

The alignment proposes two stops: Montgomery Village Center and Lakeforest Mall. However, additional stops could be explored during the facility planning process as numerous dense subdivisions have access adjacent to Montgomery Village Avenue/MD 124. The Lakeforest Mall Master Plan discusses potentially relocating the site's transit center closer to MD 355. Corridor Forward reiterates this suggestion. As I-270 highway access is provided at Montgomery Village Avenue/MD 124, commuter bus service operated by others could potentially use the recommended dedicated bus lanes to improve regional access for Lakeforest and Montgomery Village.

Germantown Connector

The Germantown Connector links points of demand along MD 118, including Montgomery College (Germantown), Germantown Town Center, and the Germantown MARC Station. The dedicated bus lanes on MD 118 allow the MD 355 BRT service to travel to and from Germantown Town Center in dedicated lanes. The Germantown Connector supports local connectivity for rapid and local service alike; Ride On buses 61, 75, and 83 all use segments of MD 118 and could be supported by the dedicated lanes. In addition, the Germantown Connector can serve potential commuter bus diversions from the interstate to points of demand in Germantown.

Manekin West Connector

The Manekin West Connector connects the Germantown Connector and Milestone/COMSAT East Clarksburg Connector. Dedicated bus lanes on Aircraft Drive, Century Boulevard, and Dorsey Mill Road comprise the Manekin West Connector, which unlocks the potential to route some MD 355 BRT buses to communities originally envisioned for CCT service. In other words, following a diversion to Germantown Town Center, some MD 355 BRT buses could run and terminate at Manekin or continue to Clarksburg via the Milestone/COMSAT East Clarksburg Connector east of I-270. While the Corridor Connector extends over the planned Dorsey Mill Bridge, the bridge itself is not considered part of the transit project. This Corridor Connector serves the developing Black Hill communities, as well as apartment complexes and office parks in the Cloverleaf vicinity.

Milestone/COMSAT East Clarksburg Connector

A third branch of dedicated bus lanes between Germantown and Clarksburg—the Milestone/COMSAT East Clarksburg Connector—will allow the MD 355 BRT to connect to other CCT communities and employment centers, including stops at Dorsey Mill, COMSAT, and Gateway Center via Observation Drive—or alternatively, Gateway Center Drive—before traveling to the Clarksburg Outlet terminus.

Today, an extension of Observation Drive (or alternatively Gateway Center Drive) remains yet to be constructed between its existing termini. Montgomery Planning anticipates initiating master planning work for the existing unoccupied COMSAT site, where a roadway connection is planned.

The dedicated bus lanes in Germantown and Clarksburg integrate six previously master-planned northern CCT stops into the MD 355 BRTs network. Because MD 355 provides connectivity to both the Shady Grove and Rockville Metrorail stations (as well as other points on the Red Line), one of the original intents of the CCT—connecting Germantown and Clarksburg to the WMATA Metrorail System—is satisfied in a more efficient and less costly manner.

Relationship to the CCT

This Plan re-envision the master planned CCT as a network of dedicated bus lanes that connect I-270 corridor communities to the county's existing and planned rapid transit network and support MCDOT's Great Seneca Transit Network. The Corridor Connectors provide a more implementable alternative to the CCT, consistent with the position of MDOT SHA that supports options that reduce and/ or eliminate the need for additional infrastructure. Three cost-saving elements of the Corridor Connectors include:

- The planned CCT overpass connecting King Farm Boulevard and Fields Road is no longer necessary, reducing implementation costs.

- By connecting to the MD 355 BRT, the Corridor Connectors eliminate the need for the dedicated bus lanes paralleling the western side of I-270 that do not serve any planned communities. Removing three miles of new right-of-way reduces the project's costs.
- While the Corridor Connectors maintain the crossing of the Dorsey Mill Bridge, bridge design and construction is not considered part of the Corridor Connector project. There is merit to the Manekin West Connector and Milestone/COMSAT East Clarksburg Branch even if the two are not linked across I-270. Exclusion of the bridge from the transit project further reduces the Corridor Connectors' implementation cost.

Corridor Forward recommends the Maryland Department of Transportation shift funding commitments in the Consolidated Transportation Program from the Corridor Cities Transitway to the Corridor Connectors, specifically the Corridor Connectors that most align with the original CCT alignment: the Life Sciences Connector, the Great Seneca Connector, and the Milestone/COMSAT East Clarksburg Connector.

While Corridor Forward proposes a reenvisioning of the CCT with Corridor Connectors, this Plan does not recommend vacating existing transit easements or previous dedications as these may still be beneficial in the long-term for various purposes, including but not limited to, transit, pedestrian, bicycle, and other micromobility improvements.

Roadway and Transitway Recommendations

Table 8 details the right-of-way needs for the Corridor Connectors. The minimum right of way widths provided in the table reference the county's Complete Streets Design Guide to determine spacing needs. These guidelines inform ultimate design with the aim of creating safe, sustainable, and dynamic street environments. In most cases, roadways are not expanded beyond current master planned widths. Where ranges are presented, the lower end of the range is highly preferable to support sound urban design and the development of pedestrian-friendly environments. Research suggests that pedestrians tend to prefer environments that create a sense of enclosure, which is easier to accomplish in tighter street environments. In some cases, the higher end of a range may be necessary, particularly if repurposing automobile capacity is not possible.

Beyond the table, this Plan removes the "T" (transit) designation from all CCT roadways not explicitly included in Table 14. Subsequent county master plans will address the right-of-way widths for roadways previously master planned for CCT service. In locations where roadways planned for CCT service fall within municipalities, Gaithersburg and Rockville, as relevant, maintain the authority to consider and address transit and right-of-way widths at their discretion. These communities will be served by the Corridor Connectors, as well as the Great Seneca Transit Network—a series of enhanced, locally serving bus routes. As

some of the transit network falls within municipalities, this Plan recommends municipal consideration of the right-of-way needs, as shown in Table 9.

Table 8 – Roadway and Transitway Recommendations

<u>Connector</u>	<u>Roadway</u>	<u>To</u>	<u>From</u>	<u>Designation</u>	<u>Minimum ROW¹</u>	<u>Preferred Number of Dedicated Bus Lanes</u>
<u>Life Sciences Connector</u>	<u>Medical Center Drive</u>	<u>Fallsgrove Boulevard</u>	<u>Broschart Road</u>	<u>Arterial, A-261d</u>	<u>100-150</u>	<u>2</u>
	<u>Medical Center Drive</u>	<u>Broschart Road</u>	<u>Great Seneca Highway</u>	<u>Arterial, A-261d</u>	<u>100-150</u>	<u>2</u>
	<u>Medical Center Drive</u>	<u>Great Seneca Highway</u>	<u>Key West Avenue</u>	<u>Arterial, A-261d</u>	<u>100-150</u>	<u>2</u>
<u>Crown Connector</u>	<u>Decoverly Drive</u>	<u>Gaithersburg City Limit</u>	<u>Diamondback Drive</u>	<u>Arterial, A-284</u>	<u>100-150</u>	<u>2</u>
	<u>Diamondback Drive</u>	<u>Decoverly Drive</u>	<u>Key West Avenue</u>	<u>Arterial, A-261b</u>	<u>100-150</u>	<u>2</u>
	<u>Broschart Road</u>	<u>Key West Avenue (MD 28)</u>	<u>Medical Center Drive</u>	<u>Arterial, A-261b</u>	<u>100-150</u>	<u>2</u>
<u>Great Seneca Connector</u>	<u>Great Seneca Highway (MD 119)</u>	<u>Medical Center Drive</u>	<u>Key West Avenue (MD 28)</u>	<u>Controlled Major Highway, CM-90</u>	<u>150'</u>	<u>2</u>
	<u>Great Seneca Highway (MD 119)</u>	<u>Key West Avenue (MD 28)</u>	<u>Sam Eig Highway</u>	<u>Controlled Major Highway, CM-90</u>	<u>150'-200'</u>	<u>2</u>
	<u>Johns Hopkins Drive²</u>	<u>Key West Avenue (MD 28)</u>	<u>Belward Campus Drive</u>	<u>Arterial, A-261d</u>	<u>100-150</u>	<u>2</u>
	<u>Decoverly Drive²</u>	<u>Muddy Branch Road</u>	<u>Johns Hopkins Drive</u>	<u>Arterial, A-284</u>	<u>100-150</u>	<u>2</u>
	<u>Muddy Branch Road²</u>	<u>Decoverly Drive</u>	<u>Great Seneca Highway</u>	<u>Major Highway, M-15</u>	<u>170</u>	<u>2</u>
<u>Lakeforest/ Montgomery Village Connector</u>	<u>Montgomery Village Avenue (MD 124)</u>	<u>Gaithersburg City Limits</u>	<u>Mid-County Highway</u>	<u>Major Highway, M-24</u>	<u>120'-140'</u>	<u>2</u>
	<u>Montgomery Village Avenue (MD 124)</u>	<u>Mid-County Highway</u>	<u>Club House Road</u>	<u>Arterial, A-295</u>	<u>120'³</u>	<u>2</u>
<u>Germantown Connector</u>	<u>Germantown Road (MD 118)</u>	<u>Bowman Mill Drive (MARC access)</u>	<u>Frederick Road (MD 355)</u>	<u>Major Highway, M-61</u>	<u>150'</u>	<u>2</u>
<u>Manekin West Connector</u>	<u>Aircraft Drive</u>	<u>Germantown Road (MD 118)</u>	<u>Century Boulevard</u>	<u>Business District Street, B-7</u>	<u>100'</u>	<u>2</u>
	<u>Crystal Rock Drive</u>	<u>Century Boulevard</u>	<u>Germantown Road (MD 118)</u>	<u>Business District Street, B-24</u>	<u>120'</u>	<u>2</u>
	<u>Century Boulevard</u>	<u>Crystal Rock Drive</u>	<u>Aircraft Drive</u>	<u>Business District Street, B-10</u>	<u>136'</u>	<u>2</u>
	<u>Century Boulevard</u>	<u>Aircraft Drive</u>	<u>Crystal Rock Drive Northern Circle</u>	<u>Business District Street, B-10</u>	<u>136'</u>	<u>2</u>
	<u>Dorsey Mill Road</u>	<u>Century Boulevard</u>	<u>Observation Drive</u>	<u>Business Street, B-14</u>	<u>150</u>	<u>2</u>

<u>Milestone/COMSAT East Clarksburg Connector</u>	<u>Observation Drive</u>	<u>Germantown Road</u>	<u>Stringtown Road</u>	<u>Arterial, A-19</u>	<u>150'</u>	<u>2</u>
	<u>Gateway Center Drive Extended²</u>	<u>Current Observation Drive Terminus</u>	<u>West Baltimore Road</u>	<u>Arterial, A-300</u>	<u>125'</u>	<u>2</u>
	<u>Gateway Center Drive Extended²</u>	<u>West Baltimore Road</u>	<u>Shawnee Lane</u>	<u>Arterial, A-300</u>	<u>125'</u>	<u>2</u>
	<u>Gateway Center Drive²</u>	<u>Shawnee Lane</u>	<u>Proposed Clarksburg Bypass</u>	<u>Arterial, A-300</u>	<u>125'</u>	<u>2</u>
	<u>Gateway Center Drive²</u>	<u>Proposed Clarksburg Bypass</u>	<u>Stringtown Road</u>	<u>Arterial, A-300</u>	<u>125'</u>	<u>2</u>
<u>MD 355 BRT – Ultimate Segment 7 Alignment</u>	<u>Ridge Road</u>	<u>Brink Road</u>	<u>MD 355</u>	<u>Major Highway, M-27</u>	<u>150'</u>	<u>2</u>
	<u>Ridge Road</u>	<u>Snowden Farm Parkway</u>	<u>Brink Road</u>	<u>Major Highway, M-27</u>	<u>150'</u>	<u>2</u>
	<u>Snowden Farm Parkway</u>	<u>Stringtown Road</u>	<u>Ridge Road</u>	<u>Arterial, A-305</u>	<u>120'-140'</u>	<u>2</u>
	<u>Stringtown Road</u>	<u>I-270</u>	<u>Snowden Farm Parkway</u>	<u>Arterial, A-260</u>	<u>120'-140'</u>	<u>2</u>
	<u>Clarksburg Road</u>	<u>Clarksburg Premium Outlets Entry</u>	<u>I-270</u>	<u>Arterial, A-27</u>	<u>150'</u>	<u>2</u>

¹ Prioritize lower number of automobile lanes to allow transit, pedestrian, and bicycle capacity.

² Represents an alternate alignment option to be considered during facility planning.

³Montgomery Village Avenue minimum right-of-way is master-planned to be 120 feet, unless a portion of the right-of-way can be repurposed.

Table 9 – Advisory Only - Roadway and Transitway Recommendations within Municipal Bounds

<u>Connector</u>	<u>Roadway</u>	<u>From</u>	<u>To</u>	<u>Jurisdiction</u>	<u>Preferred Number of Dedicated Bus Lanes¹</u>
<u>Rockville Connector</u>	<u>West Montgomery Avenue(MD 28)</u>	<u>Shady Grove Road</u>	<u>Gude Drive / Falls Grove Drive</u>	<u>City of Rockville</u>	<u>2</u>
	<u>Gude Drive²</u>	<u>Frederick Road (MD 355)</u>	<u>Piccard Drive</u>	<u>City of Rockville</u>	<u>2</u>
<u>Life Science Connector</u>	<u>Redland Boulevard</u>	<u>Piccard Drive</u>	<u>MD 355</u>	<u>City of Rockville</u>	<u>2</u>
	<u>Piccard Drive</u>	<u>Redland Boulevard</u>	<u>Gude Drive</u>	<u>City of Rockville</u>	<u>2</u>
	<u>Gude Drive</u>	<u>Piccard Drive</u>	<u>Falls Grove Drive</u>	<u>City of Rockville</u>	<u>2</u>
	<u>Falls Grove Drive³</u>	<u>Gude Drive</u>	<u>Falls Grove Boulevard</u>	<u>City of Rockville</u>	<u>2</u>
	<u>Falls Grove Boulevard</u>	<u>Falls Grove Drive</u>	<u>Shady Grove Road</u>	<u>City of Rockville</u>	<u>2</u>
<u>Crown Connector</u>	<u>Fields Road</u>	<u>I-370</u>	<u>Decoverly Drive</u>	<u>City of Gaithersburg</u>	<u>2</u>
	<u>Decoverly Drive</u>	<u>Fields Road</u>	<u>Gaithersburg City Limit</u>	<u>City of Gaithersburg</u>	<u>2</u>
<u>Great Seneca Connector</u>	<u>Great Seneca Highway (MD 119)</u>	<u>Sam Eig Highway</u>	<u>Quince Orchard Road</u>	<u>City of Gaithersburg</u>	<u>2</u>
	<u>Quince Orchard Road (MD 124)</u>	<u>Great Seneca Highway (MD 119)</u>	<u>Twin Lakes Drive</u>	<u>City of Gaithersburg</u>	<u>2</u>

	<u>Quince Orchard Road (MD 124)</u>	<u>Twin Lakes Drive</u>	<u>Clopper Road (MD 117)</u>	<u>City of Gaithersburg</u>	<u>2</u>
	<u>Clopper Road (MD 117)</u>	<u>Quince Orchard Road</u>	<u>Watkins Mill Road</u>	<u>City of Gaithersburg</u>	<u>2</u>
	<u>Watkins Mill Road</u>	<u>Clopper Road (MD 117)</u>	<u>Frederick Road (MD 355)</u>	<u>City of Gaithersburg</u>	<u>2</u>
<u>Lakeforest/Montgomery Village Connector</u>	<u>Montgomery Village Avenue/Quince Orchard Road (MD 124)</u>	<u>Clopper Road (MD 117)</u>	<u>Frederick Road (MD 355)</u>	<u>City of Gaithersburg</u>	<u>2</u>
	<u>Montgomery Village Avenue (MD 124)</u>	<u>Frederick Road (MD 355)</u>	<u>Gaithersburg City Limits (Lakeforest Entrance)</u>	<u>City of Gaithersburg</u>	<u>2</u>

¹ Provision of transit lanes is strongly suggested for municipal consideration, which has planning authority independent of the county. Prioritization of dedicated bus lanes over automobile travel lanes is strongly recommended.

² Represents an alternate alignment option to be considered during facility planning.

³ While express or dedicated bus lanes are strongly preferred, section could allow off-peak parking or mixed-traffic transit operations, dependent on further facility planning studies.

While median-running transit offers the best opportunity to operate a bus without impact from traffic, in some locations curb-running transit may be preferable. Section needs vary significantly based on context, as utilities, mature trees, and adjacent connecting active zone facilities can impact the most desirable and/or practical design. Engineered sections will be designed during the facility-planning process or determined through the development review process for new development adjacent to the relevant roadway(s).

While Complete Streets classifications have not yet been officially applied to all county roadways by an amendment to the 2018 *Master Plan of Highways and Transitways*, illustrative sections are included in the Plan's Appendix that reference the county's Complete Streets Design Guide to inform development. Dedicated bus lanes are assumed to be 13 feet or 12 feet in constrained sections. Dedicated bus lane buffer widths may vary. Along wider roadways, buffers with six-foot wide medians are preferred to provide pedestrians ADA-compliant crossing refuges; however, in locations where it is preferable to maintain a tight cross-section to reduce crossing distances, two-foot-wide buffers may be appropriate. In locations where left turn lanes are necessary, 16-to-18-foot-wide center medians have the potential to support turning needs and pedestrian refuges, while smaller 12-foot-wide medians do not support pedestrian safety. Consistent with the county's Vision Zero policy and the intent of the Complete Streets Design Guide, prioritizing safety for a roadway's most vulnerable users is paramount. For this reason, ultimate section designs should account for adequate pedestrian refuges across wider roadway sections, as well as appropriate buffers from traffic that protect non-motorists, many of whom are walking, biking, or rolling to transit.

The Great Seneca Transit Network

MCDOT has a network of targeted bus infrastructure within the vicinity of the Life Sciences Center, including newly constructed dedicated lanes, painted express bus-only lanes, queue jumps, and transit signal priority. The network includes five lines connecting various points of demand in the Great Seneca and Gaithersburg vicinities with the Universities at Shady Grove. While Montgomery Planning does not master-plan operational improvements and was not involved in the network's analysis, this Plan supports the implementation of the network, including repurposing travel lanes, as consistent with this Plan's recommendations.

This Plan proposes a near-term network that, when complemented by MCDOT's Great Seneca Transit Network, serves most of the communities originally envisioned for CCT service, as well as additional communities. By itself, the Great Seneca Transit Network does not serve the entire geographic span of the CCT; however, the near-term Corridor Connectors and the Great Seneca Transit Network together support the original vision of the CCT.

Commuter Bus Service on I-270


The Plan recommends continued state-provided commuter bus service on I-270, making use of the Corridor Connectors when diverting to bus stations in Montgomery County's population and employment centers via the Corridor Connectors. The Plan's analysis suggests that there is demand between Frederick and the Life Sciences Center and points spanning between Montgomery Village and Tysons.



The joint MTA and Virginia Department of Rail and Public Transportation's 2021 *American Legion Bridge – Transit/TDM Study* illustrates various investment packages including commuter bus service. The report assumes highway access is available at Gude Drive, implying that the Life Sciences Connector would have a regional benefit. Additionally, the report shows access to Germantown Town Center via a portion of the Germantown Connector. Finally, the report shows a terminal alignment at the Lakeforest Mall, with an alignment that could be slightly re-envisioned to connect these communities with highway infrastructure via MD 124 rather than MD 355. Locations included for service in Gaithersburg could be served by the MTA/DRPT study's MD 355-Gude Drive service pattern. Regardless, the three connectors and their connecting service legs have regional value and may be stronger candidates for funding support as compared to the original CCT.

LONG-TERM TRANSIT VISION

The long-term transit vision complements the near-term transit network, identifying large-scale transit investments likely to be implemented beyond the plan's horizon. The recommendations included in the long-term transit vision focus on improvements to existing transit services: an extension of Metrorail's Red Line to Germantown and enhanced services and new stations for the MARC Brunswick Line.

Table 10 – Long-Term Transit Vision Recommendations

<u>Long-Term Transit Vision</u>	<u>County Actions</u>	<u>Champion</u>
<p><u>Work with local, state, and regional partners to advance the recommendation for a Red Line Extension to Germantown Town Center.</u></p>	<p>A. <u>Reserve and/or acquire through dedication 62 feet of space as measured from the outer southbound track of the existing CSX Brunswick Line along the Metropolitan Branch Subdivision.</u></p> <p>B. <u>In consultation with agency partners, evaluate the steps necessary to address:</u></p> <ul style="list-style-type: none"> • <u>state of good repair and existing capacity issues within the Metrorail system's core;</u> • <u>potential upstream and downstream capacity impacts resulting from an extension along the line;</u> • <u>regional resource commitments to advance the recommendation, particularly relating to operations based on WMATA's three percent cap on annual operating subsidy increases from jurisdictions.</u> <p>C. <u>Determine what land use density and ridership targets would need to be met for WMATA to consider heavy rail service extensions to Germantown, factoring in regional draw for locations beyond the immediate vicinity of the station, including points in other jurisdictions. Update county master plans as warranted to support these targets.</u></p> <p>D. <u>Coordinate with CSX to confirm right-of-way needs, understand the magnitude of costs for anticipated rail operation and property impacts, and determine any operational agreements that would need to be made or adjusted to support the parallel-running service.</u></p> <p>E. <u>Conduct a detailed analysis of operational and maintenance facility needs and potential facility locations, to include parking needs as warranted, accounting for contextual challenges associated with what would likely be a locally unwanted land use. Coordinate with the Federal Government regarding the future of the Department of Energy site, which may be a viable location for combined government offices and operation and maintenance facilities.</u></p> <p>F. <u>Determine a refined estimate of total project costs, operating expenses, and projected benefits.</u></p>	

<u>Long-Term Transit Vision</u>	<u>County Actions</u>	<u>Champion</u>
<u>Support the long-term potential of the Maryland Transit Administration MARC Rail Brunswick Line.</u>	<p>A. <u>Obtain 25-foot-wide land dedications adjacent to the northbound tracks of the Brunswick Line right-of-way along the segments identified in the 2018 MARC Cornerstone Plan.</u></p> <p>B. <u>Support the state’s Brunswick Line Master Plan, which will identify short-term, mid-term, and long-term service enhancements and the infrastructure improvements required to achieve them. Ensure M-NCPPC participation in development of the plan.</u></p>	
<u>Promote strategic and equitable MARC Rail access by supporting new stations.</u>	<p>A. <u>Support the 2010 White Flint Sector Plan recommendation to construct an additional MARC station within the vicinity of White Flint and the 2021 Shady Grove Sector Plan recommendation for an additional MARC station at Shady Grove. Prioritize the White Flint station.</u></p> <p>B. <u>If CSX maintains its current policy that no new station can be added without the removal of an existing station or provision of additional main line track, develop a plan or strategy to support the elimination of service at underutilized stations in order to advance new stations projected to have greater network value.</u></p>	

Red Line Extension

The long-term transit vision includes an extension of WMATA’s Metrorail Red Line to Germantown Town Center, potentially including stops at Olde Towne Gaithersburg, MD 124/Fairgrounds, and Germantown Town Center¹. An extension of the Red Line to Germantown Town Center provides an opportunity to deliver the region’s highest-quality transit service to areas of the county with significant, and growing, population densities. According to *Montgomery County Trends: A Look at People, Housing, and Jobs Since 1990*, the largest increases in population and population density over the last three decades have occurred in communities along the I-270 corridor, including the vicinities of Gaithersburg, Germantown and Clarksburg, consistent with the 1964 General Plan’s vision for focused growth within corridor cities along I-270. In addition to serving existing and growing population, an extension of the Red Line also performed the best among the studied options at increasing regional transit trips, decreasing vehicle miles traveled, connecting all populations, including Equity Focus Areas, to jobs, and potentially influencing growth patterns.

As discussed in Chapter 4, extending the Red Line is not an immediately realistic proposition for numerous reasons. WMATA has indicated that it will not support extensions until the safety and state-of-good-repair needs of the Metrorail core are addressed. WMATA also has planning-level criteria that assess the viability of Metrorail extensions and today the extension does not satisfy these criteria.² In

¹ Stops listed were studied in the Plan’s technical analyses. Stop locations will be determined through future analyses and would require municipal support and coordination.

² In 2015 WMATA developed low, medium, and high threshold targets for various services. For suburban Metrorail expansions, these include:

addition, as the Red Line Extension advances through subsequent environmental reviews, alternative alignments and stop locations may be studied, but service to Germantown Town Center should remain a priority.

An extension of the Red Line has been studied, generally in a cursory fashion, in various planning and NEPA efforts dating back to the 1970s. The rationale for not pursuing the option has varied across stakeholder groups and periods of study. Today, skeptics point to the magnitude of upfront capital costs, coordination with CSX, right-of-way impacts, and the core service resource hurdles that WMATA must address as significant constraints. This Plan agrees that these are real constraints. It acknowledges that the county should not turn a blind eye to costs, but it should also not turn a blind eye to opportunity costs. The Plan's evaluation demonstrates the equity benefits, job access benefits, and climate benefits associated with an extension justify more serious consideration. Furthermore, the historical performance of land around WMATA's heavy rail stations suggests that rail offers a highly reliable means of stimulating compact mixed-use growth.

The county has successfully worked with regional stakeholders to advance important transit facilities, like the existing Red Line and advancing Purple Line. While realizing these facilities was no simple task and took decades, the county is more livable today because of the work of previous regional transit champions. This Plan lays the groundwork for new champions to emerge.

Enhanced MARC Rail

The long-term transit vision includes improvements to MARC Rail along the Brunswick Line, including reducing headways to 15 minutes, implementing reverse commute service, adding midday service, and constructing new stations. Improving MARC service is expected to require an additional mainline track for 45 miles of the rail corridor.

To advance service improvements, the Plan recommends obtaining 25-foot-wide land dedications adjacent to the northbound tracks of the Brunswick Line right-of-way along the segments identified in the 2018 MARC Cornerstone Plan and supporting the state's Brunswick Line Master Plan, which will identify short-term, mid-term, and long-term service enhancements and the infrastructure improvements required to achieve them.

The Plan recommends new MARC stations in Shady Grove and White Flint, consistent with the existing recommendations in the 2021 *Shady Grove Sector Plan* and 2010 *White Flint Sector Plan*. Of these two stations, a new MARC station at White Flint should be prioritized. If CSX maintains its current policy

-
- Households per Acre: Low <12; Medium 12-18; High >18
 - Employment per Acre: Low <19; Medium 19-26; High >26
 - Ridership per Mile: Low <3,500; Medium 3,500-7,000; High >7,000
 - WMATA Built Environment Walkshed Rating (similar to the Montgomery Planning's Pedestrian Level of Comfort Analysis): Low; 50% connected; Medium 50%-65% connected; High >65% connected

that no new station can be added without the removal of an existing station or provision of additional main line track, it will be necessary to develop a plan or strategy to support the elimination of service at underutilized stations in order to advance new stations projected to have greater network value.

Necessary infrastructure improvements to enhance MARC Rail are both costly and challenging. Even before accounting for the line's anticipated 78 grade crossings (which includes overpasses, underpasses, and pedestrian facilities), the Plan estimates substantial capital and renewal costs for the option. Given that the railroad has been operational for over a century, several sites and districts along the corridor have been designated as historic, and the additional main line track could potentially impact over 40 locations with some form of existing or planned historic designation.

Most importantly, CSX Transportation owns the majority of the rail tracks used by the MARC Rail Brunswick Line (including the Old Main Line Subdivision between Point of Rocks and Frederick Junction; excluding the Frederick Branch between Frederick Junction and downtown Frederick) adding complexity into the implementation outlook for proposed enhancements. Infrastructure improvements would require discussions and negotiations with CSX, which would certainly require limitations to—and mitigations for—any freight service disruption.

SUPPORTING RECOMMENDATIONS

Supporting recommendations enhance the benefits of the near-term transit network and long-term transit vision. These recommendations focus on prioritizing investments in transit over those that increase auto capacity, safe and convenient access to transit, land use that supports premium transit, and strategies to expedite implementation and maximize the utility of the planned dedicated bus lanes.




It may be challenging in some locations to acquire right-of-way for the county's master-planned dedicated bus lanes network due to the development potential of proximate land use. For example, it can be challenging to acquire new right-of-way in locations where existing townhouse communities or single-family homes are located. In some cases, it may be more feasible and cost-effective to reallocate right-of-way capacity to support the implementation of transit. Reallocating right-of-way often improves the competitiveness of transit, which can travel more rapidly and reliably when provided with its own infrastructure.




The Plan recommends that safe and comfortable bicycle and pedestrian access to transit facilities be implemented concurrent with the transit facilities themselves. In addition, Corridor Forward supports intermodal connectivity. During the subsequent planning for the Red Line's extension, this Plan recommends the development of a multimodal station that integrates MARC Rail, Metrorail, and bus modes. From a land use perspective, the Plan recommends updating relevant plans and guidelines to support compact, transit-oriented development patterns


within the station areas. Acknowledging that transportation investments can be associated with rising rents, the Plan recommends creating affordable housing and preserving small businesses along the corridor.




To support implementation of the transit network, the Plan recommends a key shift in the approach to move projects forward. Segments of the transit network have independent utility and can support various service patterns and targeted local bus services. Rather than waiting to compete for large funding opportunities when they become available, segments of the ultimate network can and should be implemented incrementally as funds allow.

Table 11 – Supporting Recommendations

<u>Supporting Recommendations</u>	<u>County Actions</u>	<u>Champion</u>
<u>Convert existing general-purpose travel lanes to dedicated transit lanes on targeted streets to maximize person throughput and improve the relative travel time competitiveness and convenience of transit, including—but not limited to—the streets detailed in the right-of-way table.</u>	<p>A. <u>Convert existing auto travel lanes to dedicated transit lanes to advance the transit network.</u></p> <p>B. <u>Modify congestion standards to include a BRT station designation between that of Metrorail station areas (120 seconds) and local bus (80 seconds).</u></p> <p>C. <u>Continue to explore and prioritize other locations in the corridor where local bus service can be enhanced through the provision of express bus lanes, queue-jumps, and other facilities.</u></p>	
<u>Prioritize the provision of dedicated transit lanes and spaces for walking, bicycling and other micromobility modes over auto capacity to maximize person throughput and improve the relative travel time competitiveness and convenience of transit.</u>	A. <u>Limit the addition of non-transit travel lanes in areas defined by the Complete Streets Design Guide as Downtowns and Town Centers, to be confirmed through future master plans. Address fee-in-lieu and alternate development mitigation when projects demonstrate impacts to the convenience of automobile travel in an update to the Growth and Infrastructure Policy or Local Area Transportation Review.</u>	
<u>Develop a multimodal transit hub within the vicinity of Metropolitan Grove as part of implementation of the Red Line Extension to serve local bus, BRT, Metrorail and MARC services.</u>	A. <u>If the Red Line Extension advances into construction, coordinate with MCDOT, MARC Rail, and WMATA, to ensure convenient transfers between the different transit services at the station.</u>	

<u>Supporting Recommendations</u>	<u>County Actions</u>	<u>Champion</u>
<u>Convert existing general-purpose travel lanes to dedicated transit lanes on targeted streets to maximize person throughput and improve the relative travel time competitiveness and convenience of transit, including—but not limited to—the streets detailed in the right-of-way table.</u>	<p>D. <u>Convert existing auto travel lanes to dedicated transit lanes to advance the transit network.</u></p> <p>E. <u>Modify congestion standards to include a BRT station designation between that of Metrorail station areas (120 seconds) and local bus (80 seconds).</u></p> <p>F. <u>Continue to explore and prioritize other locations in the corridor where local bus service can be enhanced through the provision of express bus lanes, queue-jumps, and other facilities.</u></p>	
<u>Prioritize the provision of dedicated transit lanes and spaces for walking, bicycling and other micromobility modes over auto capacity to maximize person throughput and improve the relative travel time competitiveness and convenience of transit.</u>	B. <u>Limit the addition of non-transit travel lanes in areas defined by the Complete Streets Design Guide as Downtowns and Town Centers, to be confirmed through future master plans. Address fee-in-lieu and alternate development mitigation when projects demonstrate impacts to the convenience of automobile travel in an update to the Growth and Infrastructure Policy or Local Area Transportation Review.</u>	
<u>Develop a multimodal transit hub within the vicinity of Metropolitan Grove as part of implementation of the Red Line Extension to serve local bus, BRT, Metrorail and MARC services.</u>	B. <u>If the Red Line Extension advances into construction, coordinate with MCDOT, MARC Rail, and WMATA, to ensure convenient transfers between the different transit services at the station.</u>	

<u>Supporting Recommendations</u>	<u>County Actions</u>	<u>Champion</u>
<p><u>Ensure safe and efficient access to planned transit stops for pedestrians, bicyclists, and other micromobility modes.</u></p>	<p>A. <u>As long-range planning and implementation planning (NEPA and facility planning) progress, explore opportunities to create new Bicycle and Pedestrian Priority Areas (BiPPAs) and red Metro Station Policy Areas (MSPAs) to support new premium services.</u></p> <p>B. <u>Provide buffered sidewalks, protected crossings, bicycle facilities, and lighting to serve new master-planned facilities' stops and stations.</u></p> <p>C. <u>Include bicycle and scooter parking facilities in the ultimate design of all new master-planned stops and stations at the rate and size specified in the <i>Bicycle Master Plan</i> (Appendix G).</u></p> <p>D. <u>Ensure access to all master planned transit stops is ADA accessible within a half-mile.</u></p> <p>E. <u>Develop countywide pedestrian and bicycle delay standards to limit crossing delay for pedestrians, bicycles, and other micromobility users, to be applied within a half-mile of a master-planned facility's transit stop or station.</u></p> <p>F. <u>During station design, consider how to safely provide and accommodate transfers from on-demand services like ridesharing to transit stations and stops, as appropriate based on context.</u></p>	

<u>Supporting Recommendations</u>	<u>County Actions</u>	<u>Champion</u>
<u>Update relevant land use plans and guidelines to support master-planned transit facilities.</u>	<p>A. <u>Update master plans and sector plans, including, but not limited to, the Great Seneca Science Corridor Master Plan, the Germantown Sector Plan, and the MARC Rail Communities Sector Plan, in support of incentivizing compact, transit-oriented development patterns.</u></p> <p>B. <u>Identify and zone the locations of transit operations and maintenance facilities for the recommended transit network and integrate recommended locations for these needs into applicable plan's land use vision.</u></p> <p>C. <u>Prioritize use of land at existing and master planned stations for transit-oriented development, minimizing space dedicated to bus storage and layover.</u></p> <p>D. <u>Create affordable housing and preserve small businesses in areas where new transit may increase rents. Increase affordable and diversity of housing types in areas already served by transit along the corridor.</u></p> <p>E. <u>Update the Complete Streets Design Guide, adding a "transit" overlay or "transit street" typology addressing transit-specific design elements.</u></p>	
<u>Where beneficial and/or necessary, support the incremental implementation of dedicated bus lanes.</u>	<p>A. <u>When and where necessary, break larger transit projects into more easily implemented components—when such components offer independent utility—to support the ultimate build-out of the network.</u></p> <p>B. <u>Facilitate all funding and implementation opportunities—large and small—that support the ultimate build-out of the infrastructure network.</u></p>	
<u>Maximize the travel potential of dedicated bus lanes.</u>	<p>A. <u>Develop policy guidelines on the use of dedicated bus lanes to allow local bus, shuttles, etc. in appropriate contexts and manners that do not degrade rapid services.</u></p>	

REGIONAL OPPORTUNITIES




While many trips within Montgomery County both start and end with the county, many residents and employees commute across county lines, to the District of Columbia, Prince George's County, and other regional jurisdictions. The recommendations in this section strengthen connections to neighboring jurisdictions where premium transit is not currently provided, specifically Fairfax County, VA, and Frederick County, MD.

First, the Plan recommends that the county consider and evaluate options for a future Purple Line extension west of Bethesda, including potential alignments that extend into Northern Virginia. Metrorail travel times between Bethesda and Tysons are 70-minutes with the current network, but a Purple Line extension could reduce this connection to a 22-minute ride.

Second, redesign and replacement of the American Legion Bridge across the Potomac River is planned as part of Managed Lanes highway expansion project. The existing bridge, which carries I-495 traffic, does not currently provide rail transit. The Plan recommends that the redesigned bridge accommodate rail transit, in order to provide flexibility for future transit investments. While this Plan does not explicitly recommend a rail transit service over the American Legion Bridge, the lifespan of a bridge far exceeds the lifetime of this Plan.

Lastly, a portion of Montgomery County employees commute from Frederick County. The Plan recommends supporting efforts led by Frederick County to provide a transitway between the two counties.

Table 12 – Regional Opportunities Recommendations

<u>Regional Opportunities</u>	<u>County Actions</u>	<u>Champion</u>
<u>Study extensions of the Purple Line to understand if and where extension(s) of the county's light rail service may be warranted.</u>	<p>A. <u>Add an initial study to Montgomery Planning's work program to assess travel demand between locations along the under-construction Purple Line and potential points of demand, including, but not limited to, the National Institutes of Health, Rock Spring, Tysons, Georgetown/Rosslyn, and Arlington.</u></p> <p>B. <u>Coordinate with jurisdictions, as relevant and if warranted following the initial study, to scope further technical feasibility analyses that explore potential extension alignments, their costs, and their benefits.</u></p>	
<u>Design and construct the American Legion Bridge to support rail transit.</u>	A. <u>Advocate for an American Legion Bridge design that can structurally accommodate the rail transit needs of the future.</u>	
<u>Explore a direct transitway connection between the recommended WMATA Metrorail Red Line terminus and Frederick City.</u>	<p>A. <u>If Frederick County includes this new, direct transit connection in an update to their Transit Development Plan, support others' efforts by recommending alignments and stations for any portion of a direct service that falls within Montgomery County.</u></p> <p>B. <u>Participate as a cooperative stakeholder in others' study and design efforts.</u></p>	

Page 59 Revise the title of Chapter 7 – Conclusion as follows:

CHAPTER [7] 6 - CONCLUSION

Page 59 Revise the second paragraph in Chapter 7 – Conclusion as follows:

This Plan maintains and recommits to a vision for rapid transit in midcounty and upcounty. The Plan supports regional connectivity—particularly by demonstrating the regional benefits of a Red Line Extension and enhancements to MARC Rail—but also acknowledges the importance of a near-term locally-oriented network of dedicated bus lanes. Once implemented, the [recommended] transit network will serve existing corridor communities and connect them with areas planned for compact growth and further the county's equity, environment, and economic goals [set by Thrive Montgomery 2050].

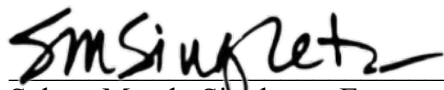
Page 59 Revise the last paragraph in Chapter 7 – Conclusion as follows:

An extension of WMATA's Metrorail Red Line to Germantown Town Center and improvements to MARC Rail service may take time to be realized, as the county will need to lift its vision over several hurdles [(as detailed in Chapter 6)], but the ultimate benefits should encourage the county to face these challenges and further advance its transit commitment. Both near and long-term elements of Corridor Forward can be achieved with support, advocacy, commitment, and focus.

General

All illustrations and tables included in the Plan will be revised to reflect the District Council changes to the Planning Board Draft of Corridor Forward: The I-270 Transit Plan (January 2022). The text and graphics will be revised as necessary to achieve and improve clarity and consistency, to update factual information, and to convey the actions of the District Council. Graphics and tables will be revised and re-numbered, where necessary, to be consistent with the text and titles.

This is a correct copy of Council action.



Selena Mendy Singleton, Esq.
Clerk of the Council

ELECTED AND APPOINTED OFFICIALS

County Council

Gabe Albornoz, President
Evan Glass, Vice President
Andrew Friedson
Tom Hucker
Will Jawando

Sidney Katz
Nancy Navarro
Craig Rice
Hans Riemer

County Executive

Marc Elrich

The Maryland-National Capital Park and Planning Commission

Casey Anderson, Chair
Peter A. Shapiro, Vice Chair

Montgomery County Planning Board

Casey Anderson, Chair
Partap Verma, Vice Chair
Gerald R. Cichy

Tina Patterson
Carol Rubin

Prince George's County Planning Board

Peter A. Shapiro, Chair
Dorothy F. Bailey, Vice Chair
William M. Doerner

Manuel R. Geraldo
A. Shuanise Washington

ACKNOWLEDGMENTS

Office of the Planning Director

Gwen Wright, Director

Robert Kronenberg, Deputy Director

Tanya Stern, Deputy Director

Midcounty Planning

Carrie Sanders, Chief

Jessica McVary, Master Planner/Supervisor

Patrick Reed, Project Manager*

Steve Findley

Luis Estrada Cepero

Maren Hill

Walker Freer*

Countywide Planning and Policy

Jason Sartori, Chief

David Anspacher, Transportation Supervisor

Jesse Cohn McGowan, Project Manager

Yuanjun Li

Jaesup Lee

Stephen Aldrich

Rebecca Ballo

Brian Crane

Upcounty Planning

Chris Van Alstyne

Montgomery Parks

Chuck Kines

Research and Strategic Projects

Todd Fawley-King*

Benjamin Kraft

Corinne Blackford*

Pamela Zorich*

Information Technology and Innovation

Chris McGovern

Rachel Husted

Melissa Noakes

Communications

Bridget Broullire, Chief

Chris Peifer

Brian Kent

Christine Ruffo

Meghan Irving

Legal

Matthew Mills

*Former Staff

Special thanks to the jurisdictions, agencies, and organizations who provided guidance, support, and/or input on the scope and process of the Plan, including:

- Fairfax County
- Frederick County
- City of Frederick
- City of Gaithersburg
- Greater Washington Partnership
- Maryland Department of Transportation
- Maryland Department of Planning
- Metropolitan Washington Council of Governments
- Montgomery County Department of Transportation
- Montgomery County Transportation Management Districts
- City of Rockville
- Washington Metropolitan Area Transit Authority
- Maryland Transit Administration

Photo Credit: Montgomery County
Department of Transportation



CORRIDOR FORWARD

The I-270 Transit Plan



2425 Reedy Drive, 14th Floor
Wheaton, MD 20902



301-495-4610 montgomeryplanning.org



 **Montgomery Planning**