

REVIEW OF COUNTY EXECUTIVE'S RECOMMENDED FY25 CAPITAL BUDGET AND FY25-30 CAPITAL IMPROVEMENTS PROGRAM – TRANSPORTATION ELEMENTS



Planning staff annually reviews the County Executive's Recommended transportation Capital Budget and transportation Capital Improvements Program and prepares recommendations for Planning Board consideration. Approved Planning Board comments are then transmitted to the County Council.



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Prepared February 4, 2024

MCPB Item No 7
February 15, 2024

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Floor 13
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SUMMARY

- Transportation funding in the County Executive’s Recommended FY25 Capital Budget and six-year CIP will be reduced by four % compared to the Approved FY23-28 Capital Improvement Program (CIP).
- The advancement of two major Bus Rapid Transit projects for MD 355 Central and Veirs Mill Road continue to be major project priorities in this Recommended Capital Budget for transportation.
- Increased funding and schedule acceleration is recommended for the US 29 Pedestrian and Bicycle Improvement Project.

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RECOMMENDATIONS SUMMARY

- **US 29 Pedestrian and Bicycle Improvements (P502304):** Increased project funding and an accelerated project schedule should be considered for this project. The current scope of proposed improvements is insufficient to adequately address pedestrian and bicycle needs along the US 29 corridor. As identified in the Bicycle Master Plan Biennial Monitoring Report, potential bikeway connections to the US 29 corridor could be enhanced with the addition of two projects:
 - **Castle Boulevard** – connecting to existing bikeways on Briggs Chaney Road and to the US 29 FLASH station, and
 - **Tech Road/Broadbirch Drive** – providing connections to the US 29 FLASH station, Adventist Hospital and the future Viva White Oak development.
- **Montgomery Village Avenue Bikeway:** Design and construct the master-planned bikeway on Montgomery Village Avenue north of the Gaithersburg City line to provide synergies with the coming redevelopment of Lakeforest Mall.
- **Bicycle Parking at Public Schools:** Over the next two years, prioritize funding to upgrade bicycle parking at the following schools: Dr. Ronald A. McNair ES, Glenallen ES, Bells Mills ES, Poolesville ES, Sligo Creek ES, Olney ES, Thomas W. Pyle MS, Silver Spring International MS, North Bethesda MS, Rosa M. Parks MS, Westland MS, Bethesda-Chevy Chase HS, Quince Orchard HS, Walt Whitman HS, and Walter Johnson HS.
- **Systemic Safety Countermeasure Program:** Initiate a funding program focused on systemic improvements that address crash risks identified in the Predictive Safety Analysis.
- **Bicycle Parking Stations:** Fund a bicycle parking station at the Glenmont Metrorail station.
- **Aspen Hill Bicycle-Pedestrian Priority Area project:** Fund a new project to implement the safety recommendations in the Aspen Hill Vision Zero Study.
- **Protected Crossing Spacing:** Continued or increased funding support for the Traffic Signals project (CIP Project No P507154) is needed for the design and construction of more protected crossings to fill in the gaps in the protected crossing network, including those identified in Table 7 of the 2023 Travel Monitoring Report.
- **Grid of Streets:** Continued support is needed to advance projects in the capital budget to build out the street grid, including:
 - North High Street Extended (CIP Project No. P502310) in Olney
 - Summit Avenue Extension (CIP Project No. P502311) in Kensington

INTRODUCTION

The County Executive published his Recommended FY25 Capital Budget and the FY25-30 Capital Improvements Program (CIP) on January 16, 2024. The memo from the County Executive detailing the recommended budget changes is located at:

<https://www.montgomerycountymd.gov/OMB/Resources/Files/omb/pdfs/fy25/ciprec/CEMemo.pdf>.

The recommended budget may be found at:

https://www.montgomerycountymd.gov/OMB/Resources/Files/omb/pdfs/fy25/ciprec/FY25_Recommended_Capital_Budget.pdf.

This staff report analyzes the recommended budget for transportation projects. It notes projects that have significant changes in budget or in schedule, including projects that are important to the fulfillment of adopted master plans and projects that are identified as part of the biennial Travel Monitoring Report.

The Planning Board is asked to review staff comments on the capital budget and CIP and transmit them to the County Council. Staff recommendations are provided in detail on page 13.

SUMMARY OF THE COUNTY EXECUTIVE’S RECOMMENDED CIP

In the spring of even-numbered calendar years, the County Council adopts a Six-year Capital Improvements Program (CIP). In the spring of odd-numbered years, the Council considers amendments to the adopted CIP. The current CIP runs from FY25 through FY30.

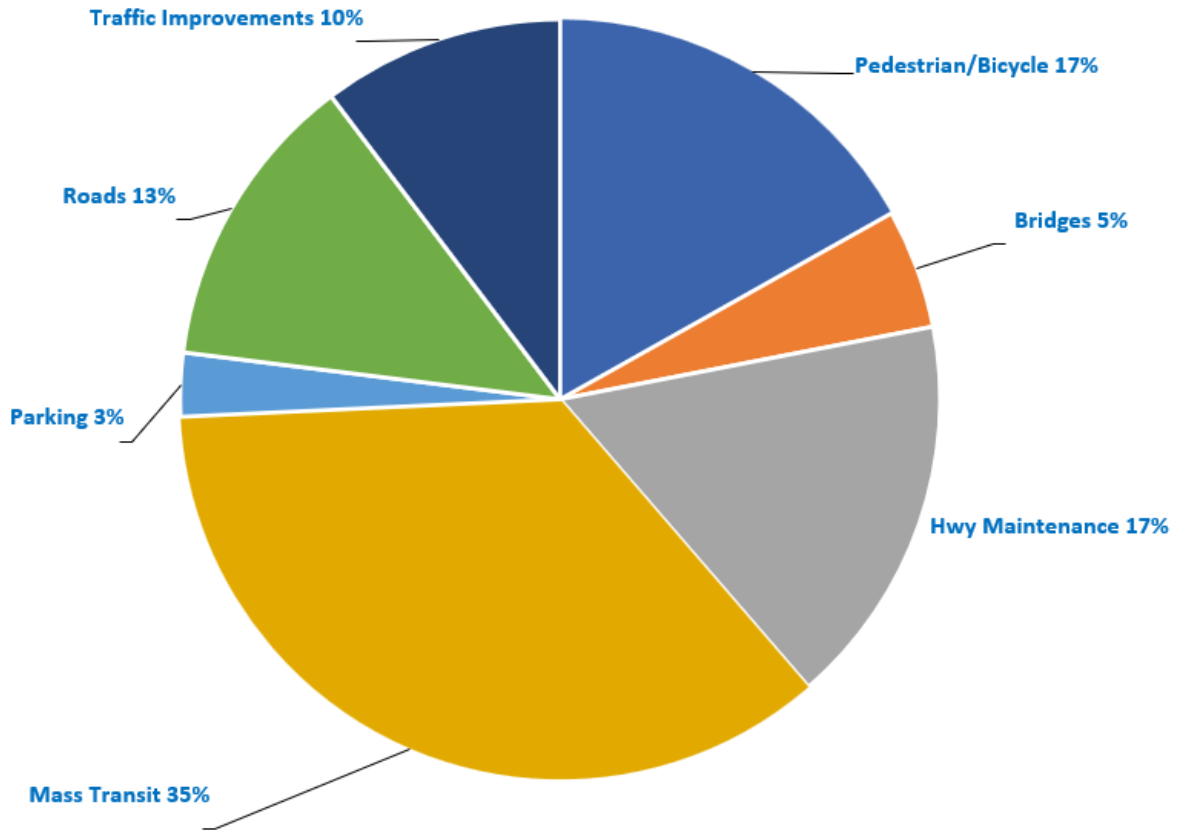
On January 16, 2024, County Executive Marc Elrich released his recommended FY25 Capital Budget and FY25-30 CIP for the County Council’s consideration. As shown below in Table 1, the recommended FY25-30 CIP funding totals \$5.8 billion, with 25.1 percent (approximately \$1.7 billion) allocated for transportation projects. Compared to the previous CIP, the recommended six-year transportation funding would decrease by \$72.24 million (a 4.0 % decrease).

Table 1: Recommended FY25-30 CIP Funding Summary by Agency (\$000s)

Agency/Category	Recommended FY25-30	Approved FY23-28	Increase /Decrease	Percent Change
Montgomery County Public Schools	\$1,907,576	\$1,907,576	\$0	0.0%
Montgomery College	\$381,703	\$340,122	\$41,581	12.2%
M-NCPPC	\$303,021	\$296,227	\$6,794	2.3%
Transportation	\$1,718,939	\$1,791,183	(\$72,244)	(4.0%)
County Government – Non-Transportation	\$1,508,603	\$1,343,271	\$93,332	6.6%
Revenue Authority	\$11,815	\$17,334	(\$5519)	(31.8%)
Housing Opportunities Commission	\$7,500	\$10,225	(\$2,725)	(26.7%)
Total	\$5,839,157	\$5,705,938	\$133,219	2.3%

A summary of the transportation CIP by improvement category is shown below in Figure 1. In the recommended funding in the six-year CIP, Mass Transit has the highest share of the transportation budget (35 percent), followed by Pedestrian Facilities/Bikeways (17 percent), and Highway Maintenance (17 percent).

Figure 1: Recommended FY25-30 Transportation CIP Budget Breakdown



MAJOR CHANGES IN THE COUNTY EXECUTIVE’S RECOMMENDED TRANSPORTATION CIP

Compared to the amended FY23-28 CIP, the County Executive has recommended a FY25-30 six-year CIP with transportation project funding that is \$72 million less than the approved FY23-28 CIP (4.0 percent reduction). Table 2 below highlights these changes in funding by project category. This includes modest increases (between two and six percent) in funding for Bridges, Highway Maintenance, Mass Transit (MCG), Parking, and Traffic Improvement projects. In contrast there was a 77.6 percent decrease in funding for Roads, and a 17.9 percent decrease in funding for Pedestrian Facilities/Bikeways.

Table 2: Recommended FY25-30 Transportation CIP Budget Summary (\$000s)

Improvement Category	Recommended FY25-30	Amended FY23-28	Increase /Decrease	Percent Change
Pedestrian Facilities/Bikeways	\$274,110	\$333,704	(\$59,594)	(17.9%)
Bridges	\$86,664	\$84,676	\$1,988	2.3%
Highway Maintenance	\$253,266	\$232,900	\$20,366	8.7%
Mass Transit (MCG)	\$900,173	\$864,262	\$35,911	4.2%
Parking	\$62,947	\$59,847	\$3,100	5.1%
Roads	\$23,381	\$104,272	(\$80,891)	(77.6%)
Traffic Improvements	\$118,398	\$111,522	\$6,876	6.2%
Total	\$1,718,939	\$1,791,183	(\$72,244)	(4.0%)

Transportation projects with significant changes in funding allocations are included in Table 3, Table 4, and Table 5 below. As shown in Table 3, the existing Capital Crescent Trail project will be closed out after FY27. Projects showing decreased funding in the six-year CIP include Observation Drive Extended, Summit Avenue Extension, Bradley Boulevard Improvements, and the Bridge Renovations level of effort project.

Table 3: Select Projects with Decreased Funding (Change from Adopted CIP in \$000s)

Project Name	6 Year CIP Total	FY 2025	FY 2026	FY 2027	FY 2028	FY2029	FY2030	Beyond 6 Yrs.
Capital Crescent Trail (P501316)	(\$78,496)	(\$12,965)	(\$26,780)	(\$26,580)	\$0	\$0	\$0	\$0
Observation Drive Extended (P501507)	(\$56,745)	\$333	(\$1,793)	(\$22,179)	(\$31,340)	\$0	\$0	\$43,044
Summit Avenue Extension (P502311)	(\$13,263)	\$0	\$0	(\$808)	(\$12,445)	\$0	\$0	\$17,598
Bradley Boulevard (MD 191) Improvements (P501733)	(\$15,719)	(\$3,445)	(\$4,120)	(\$6,616)	\$0	\$0	\$0	\$17,273
Bridge Renovation (P509753)	(\$7,373)	\$120Trai	\$220	(\$377)	(\$630)	\$4,020	\$4,020	\$0

As shown in Table 4, six projects have significant increased funding in the recommended CIP, including the Ride On Bus Fleet, the Falls Road Bikeway and Pedestrian Facility, the Bowie Mill Road Bikeway, Fenton Street Cycletrack, the Ride on Fare Equipment replacement project and the Forest

Glen Passageway project. With this recommended CIP, the Fenton Street Cycletrack is anticipated to be completed by FY26, the Bowie Mill Bikeway is anticipated to be completed by FY29, and the Falls Road project and the Forest Glen Passageway are both anticipated to be completed by FY30.

Table 4: Select Projects with Increased Funding (Change from Adopted CIP in \$000s)

Project Name	6 Year CIP Total	FY2025	FY2026	FY2027	FY2028	FY2029	FY2030	Beyond 6 Yrs.
Ride On Bus Fleet (P500821)	\$90,087	(\$4,770)	\$300	\$35,003	\$7,437	\$29,600	\$67,752	\$0
Falls Road Bikeway and Pedestrian Facility (P500905)	\$27,400	\$408	\$20	\$679	\$5,196	\$11,824	\$19,913	(\$23,852)
Bowie Mill Road Bikeway (P502108)	\$11,878	\$675	\$598	(\$3,094)	\$4,186	\$11,383	\$0	(\$4,126)
Ride On Fare Equipment Replacement (P502404)	\$7,310	\$1,800	\$3,485	\$3,040	\$0	\$0	\$0	\$0
Fenton Street Cycletrack (P502001)	\$3,090	\$4,816	\$5,568	\$0	\$0	\$0	\$0	\$0
Forest Glen Passageway (P501911)	\$3,622	(\$829)	(\$10,425)	(\$13,362)	\$2,327	\$14,521	\$12,890	\$0

There are five projects with significant recommended funding changes that would result in funding being shifted beyond the current 6-Year CIP. These recommendations remove \$86.8 million from the 6-year CIP and place \$172.7 million in project funding beyond the CIP, including the \$82.5 million for the Capital Crescent Trail Tunnel, \$4.03 million for Observation Drive Extended, \$12.5 million for the Summit Avenue Extension, \$17.3 million for the Bradley Boulevard improvements, and \$17.4 million for the Tuckerman Lane Sidewalk. These changes are highlighted in Table 5.

Table 5: Projects with Funding Shifted Beyond 6 Years (Change from Amended CIP in \$000s)

Project Name	6 Year CIP Total	FY2025	FY2026	FY2027	FY2028	FY2029	FY2030	Beyond 6 Yrs.
Capital Crescent Trail Tunnel (P502512) <i>(New project number)</i>	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$82,545
Observation Drive Extended (P501507)	(\$56,745)	\$333	(\$1,793)	(\$22,179)	(\$31,340)	\$0	\$0	\$43,044
Summit Avenue Extension (P502311)	(\$12,455)	\$0	\$0	\$0	\$0	\$0	\$0	\$12,455
Bradley Boulevard (MD 191) Improvements (P501733)	(\$15,719)	(\$3,445)	(\$4,120)	(\$6,616)	\$0	\$0	\$0	\$17,273
Tuckerman Lane Sidewalk (P502302)	(\$1,887)	\$0	\$0	(\$927)	(\$1,012)	\$0	\$0	\$17,368

The County Executive’s recommended CIP includes ten new transportation projects. Of note, a new project number has been created for the Capital Crescent Trail Tunnel (P502512) to provide different budget and scheduling allocations than the current Capital Crescent Trail project number (P501316). Clearly, this is being done to distinguish between remaining Capital Crescent Trail activities now committed for FY25-27 as part of the Purple Line project and future efforts to construct the Capital Crescent Trail Tunnel improvements that are now not covered in the Recommended CIP. With this recommended CIP, most funding for the Capital Crescent Trail Tunnel has been moved to beyond the six-year CIP. Three bridge projects have been added to respond to needed bridge improvements or replacements, a secure bike parking facility project has been added for Silver Spring and Bethesda, and several parking security camera surveillance system projects have been added in Bethesda, Silver Spring and Wheaton. The new projects are shown below in Table 6. Note that the Planning Board recently reviewed the Redland Road Bridge project as a mandatory referral.

Table 6: Recommended Transportation Project Additions to the FY25-30 CIP (\$000s)

Project Name	Recommended FY25-30 CIP	Beyond 6 Years
Auth Lane Pedestrian Bridge (P502505)	\$250	\$0
Brookville Road Bridge M-0083 (P502503)	\$5,190	\$0
Redland Road Bridge No. M-0056 (P502507)	\$4,000	\$0
Schaeffer Road Bridge M-0137 (P502504)	\$2,440	\$0
Hydrogen Fuel Cell Buses and Fueling Site (P502408)	\$10,951	\$0
Bethesda Parking Security Camera Surveillance System (P502409)	\$1,578	\$0
Silver Spring Parking Security Camera Surveillance System (P502410)	\$1,908	\$0
Wheaton Parking Security Camera Surveillance System (P502411)	\$279	\$0
Capital Crescent Trail Tunnel (P502512)	\$0	\$82,545
Silver Spring & Bethesda Secure Bike Parking Facilities (P502510)	\$535	\$0
Total New Transportation Projects	\$27,131	\$82,545

ANALYSIS OF RECOMMENDED TRANSPORTATION CIP

Every two years, the Planning Board transmits its county transportation funding priorities to the County Executive during the Executive’s preparation of the CIP. The priorities are general based on master plan recommendations and a project’s potential impacts on equity and Vision Zero safety efforts. The most recent list of county transportation priorities was approved by the Planning Board on July 27, 2023 and transmitted to the County Executive on July 31, 2023 (see Attachment A).

Following is a summary of notable CIP projects that have been reviewed in relation to the Planning Board transportation priorities and in advancing master plan and other Planning Department concerns/initiatives. These include a review of:

- Major Transportation Projects in the Planning Board’s Priority List
- Major Transportation Projects Not in the Planning Board’s Priority List
- Major Project-Related Concerns Not Addressed in the CIP
- Additional Master Plan Issues Not Addressed in the CIP

A web map has been developed to display the locations of the transportation projects addressed in the first two bullets. This can be found at <https://mcatlas.org/FY25NotableCIPProjects>.

MAJOR TRANSPORTATION PROJECTS IN THE PLANNING BOARD'S PRIORITY LIST

The following is a discussion of the County Executive's recommended changes to key transportation CIP projects included in the Planning Board's priority list:

- **Bus Rapid Transit: MD 355 Central (P502005):** This project has only changed slightly in the identification of funding sources. This bus rapid transit project is proposed on MD 355 between Rockville and Germantown. With the recommended FY25-30 CIP, \$413.3 million is budgeted for this project. The bulk of the funding for this project is expected to come from two sources: 1) federal aid (\$204.4 million), and 2) Op Lanes (formerly the I-495/I-270 Managed Lanes project) Maryland Transit funding (\$167.7 million). Additional funding for this project includes current revenue, transportation impact taxes, state aid (\$47.7 million), and recordation tax premium funds. The MD 355 Central BRT project was identified as the top overall transportation CIP priority by the Planning Board.
- **Bus Rapid Transit: Veirs Mill Road (P501913):** The budget for this project has only changed slightly in the identification of the funding sources. This bus rapid transit project proposed between Downtown Wheaton and Montgomery College – Rockville will complete Final Design in FY24 and be fully constructed by FY27. Funding sources for this project include current revenue, transportation impact taxes, federal aid (\$99.4 million), state aid (\$23.9 million), and a new state bus rapid transit fund (\$28.8 million). This project was identified as the #2 overall transportation CIP priority by the Planning Board. It is important to note that this project will construct an interim project that will operate in traffic for a substantial portion of the corridor and that the intent is to upgrade the BRT to dedicated transit lanes for the full length of the corridor, as recommended in the 2019 *Veirs Mill Corridor Master Plan*, as part of a future, unfunded project.
- **Capital Crescent Trail Tunnel (P502512):** A new project number was created for the Capital Crescent Trail Tunnel project, and all funds have been recommended beyond the six-year CIP. This funding is needed to complete the Capital Crescent Trail tunnel under Wisconsin Avenue and improvements at Elm Street Park to build out the master plan vision to coincide with the opening of the Purple Line (FY27). Beyond FY30, a total of \$82.5 million is allocated to complete this project. This project was identified by the Planning Board as overall transportation CIP priority #6.
- **Forest Glen Passageway (P501911):** The overall budget for this project has increased by \$3.9 million. With the recommended six-year CIP, this project has been delayed by two years. In the previous CIP, construction was anticipated to begin in FY26 and be completed by FY28. Construction completion is now anticipated in FY30. This project will be funded with GO

bonds. This project was identified as overall transportation CIP priority #10 by the Planning Board.

- **North Bethesda Metro Station Northern Entrance (P501914):** The project is now scheduled to start construction in FY27 with \$8.1 million in county funds. The total project is currently estimated at approximately \$35 million. The remaining funds will be solicited from WMATA, MDOT, and developer contributions. It is expected that WMATA will select a development partner and initiate design in FY24 and will be ready to commence construction in FY26. This project was identified by the Planning Board as transportation CIP Transit priority #6.
- **Fenton Street Cycle track (P502001):** There has been no change to the funding for this bike project in Downtown Silver Spring on Fenton Street between Planning Place and King Street. This project, which is anticipated to be constructed by FY26, was identified as transportation CIP bicycle priority #7 by the Planning Board.
- **Observation Drive Extended (P501507):** The six-year CIP for this project is proposed to be decreased by \$56.7 million and the construction completion has shifted back beyond FY30. Phase 1 is the connection of Observation Drive between Waters Discovery Lane and Little Seneca Parkway and the completion/improvement of Little Seneca Parkway between MD 355 and Observation Drive. Phase 2 is the future extension of Observation Drive up to the future Clarksburg Bypass/Roberts Tavern Road. This project (Phase 1 only) was identified by the Planning Board as the transportation CIP road priority #3. Delays in this overall project are aligned with the ongoing Clarksburg Gateway Sector Plan.

MAJOR TRANSPORTATION PROJECTS NOT IN THE PLANNING BOARD'S PRIORITY LIST

There are many notable transportation projects included in the County Executive's recommended CIP that Planning staff is generally supportive of, and while they did not make the Planning Board's top priorities, they are worthwhile efforts. These projects include ongoing level-of-effort work programs, cost sharing for Maryland Department of Transportation – State Highway Administration (MDOT SHA) projects, first mile/last mile transit-supportive programs as well as some notable older projects that have already advanced through Mandatory Referral.

- **Falls Road East Side Hiker/Biker Path (P500905):** This project is proposed to be constructed by FY30. This project has been deferred repeatedly over the past 20+ years.
- **Bowie Mill Road Bikeway (P502108):** With the recommended CIP, this \$9.6 million project is now proposed to be completed by FY29.
- **US 29 Pedestrian and Bicycle Improvements (P502304):** \$7.9 million is budgeted for this project to fund the design and construction of pedestrian and bicycle improvements to Flash stations along the US 29 corridor. With the recommended CIP, these improvements would be fully implemented by FY30. This project was reviewed by the Planning Board during the review of the US 20 BRT Phase 2 project last year, and the need for more funds and an accelerated

schedule was identified at that time. The current scope of proposed improvements does not do enough to adequately address pedestrian and bicycle needs along the US 29 corridor.

- **Oak Drive/ MD 27 Sidewalk (P501908):** \$15.1 million is budgeted for this sidewalk project. The project would be fully constructed by FY28 with this recommended allocation.
- **Goldsboro Road Sidewalk and Bikeway (P501917):** \$21.1 million is budgeted to complete this project, yet no funds are budgeted for this project in the six-year CIP. The previous CIP committed some funds in FY26 through FY28.
- **Bradley Boulevard (MD 191) Improvements (P501733):** \$17.3 million is proposed to be delayed beyond the 6-year CIP for this bikeway project. Construction was scheduled to begin in FY26 and be completed in FY27, but now the project will begin construction sometime after FY30.
- **Metropolitan Branch Trail (P501110):** This project's CIP funding has increased by \$202,000. This project was previously one of the Planning Board's top transportation priorities. Since it is now fully funded, it was removed from the transportation priority list. Phase 1 construction was completed in 2018. Phase 2 design and property acquisition was completed in FY22. Utility relocations were completed in FY22. Construction was scheduled to start in FY22 and be completed in 30 months (FY24). Due to bid procurement rules, the project was re-bid and is now anticipated to be complete by FY26.

MAJOR PROJECT-RELATED CONCERNS NOT ADDRESSED IN THE CIP

- **Bikeways in Equity Focus Areas:** Advancement of the following three master planned bicycle projects will improve connections in Equity Focus Areas:
 - 1) Montgomery Village Avenue - providing synergies with the coming redevelopment of Lakeforest Mall,
 - 2) Castle Boulevard - connecting to existing bikeways on Briggs Chaney Road and to the US 29 FLASH station, and
 - 3) Tech Road/Broadbirch Drive - providing connections to the US 29 FLASH station, Adventist Hospital and the future Viva White Oak development.
- **Systemic Safety Countermeasure Program:** Initiate a funding program focused on systemic improvements that address crash risks identified in the Predictive Safety Analysis. Systemic countermeasure implementation is a common Vision Zero approach that identifies many locations throughout the county for rapid application of improvements. These treatments are generally considered well-suited for widespread implementation because of their safety effectiveness, cost effectiveness, and because they may be implemented with limited study and design. In contrast, spot safety treatments use traditional site-based analysis at a specific

location. See Attachment B, which includes candidate locations for systemic countermeasure implementation from the Planning Department’s Predictive Safety Analysis.

- **Bicycle Parking at Public Schools:** Over the next two years, prioritize funding to upgrade bicycle parking at the following schools: Dr. Ronald A. McNair ES, Glenallen ES, Bells Mills ES, Poolesville ES, Sligo Creek ES, Olney ES, Thomas W. Pyle MS, Silver Spring International MS, North Bethesda MS, Rosa M. Parks MS, Westland MS, Bethesda-Chevy Chase HS, Quince Orchard HS, Walt Whitman HS, and Walter Johnson HS.
- **Bicycle Parking Stations:** Fund a bicycle parking station at the Glenmont Metrorail station.
- **Aspen Hill BiPPA:** Similar to last year this is still a concern. According to the Aspen Hill Vision Zero Study, there were 23 severe or fatal crashes in the Aspen Hill Vision Zero Study area between 2015 and 2019. Another fatal crash occurred on February 5, 2023 at the intersection of Hewitt Avenue and Georgia Avenue. In 2019, the Planning Board requested the creation of a new BiPPA project to address the deficiencies identified in the Aspen Hill Vision Zero Study, conducted by the Planning Department. This action has not been added to the CIP.
<https://montgomeryplanning.org/planning/communities/midcounty/aspen-hill/aspen-hill-vision-zero-study/> .

ADDITIONAL MASTER PLAN ISSUES NOT ADDRESSED IN THE CIP

Some additional master plan transportation issues were identified in the 2023 Travel Monitoring Report regarding protected crossing spacing and building out a grid of streets in Downtowns, Town Centers and along Growth Corridors, consistent with Thrive Montgomery 2050 Growth Corridors section.

- **Protected Crossing Spacing:** The Complete Streets Design Guide identifies protected crossing standards for different street types. Therefore, continued or increased funding support is needed for the Traffic Signals project (CIP Project No P507154) to fill in the gaps in the protected crossing network, including those identified in Table 7 of the 2023 Travel Monitoring Report (see Attachment C).
- **Grid of Streets:** Thrive Montgomery 2050 states that “A more connected street grid is perhaps the single most important step to make our streets safer, more attractive for walking, biking and rolling, and to reconnect communities divided by highways.” Therefore, continued support is needed to advance projects in the capital budget to build out the street grid, including:
 - North High Street Extended (CIP Project No. P502310) in Olney
 - Summit Avenue Extension (CIP Project No. P502311) in Kensington

RECOMMENDATIONS/COMMENTS

Staff is generally supportive of the County Executive's Recommended FY25 Capital Budget and FY25-FY30 CIP, but recommends that the following specific comments be transmitted to the County Council:

- **US 29 Pedestrian and Bicycle Improvements (P502304):** Increased project funding and an accelerated project schedule should be considered for this project. The current scope of proposed improvements is insufficient to adequately address pedestrian and bicycle needs along the US 29 corridor. As identified in the Bicycle Master Plan Biennial Monitoring Report, potential bikeway connections to the US 29 corridor could be enhanced with the addition of two projects:
 - **Castle Boulevard** – connecting to existing bikeways on Briggs Chaney Road and to the US 29 FLASH station, and
 - **Tech Road/Broadbirch Drive** – providing connections to the US 29 FLASH station, Adventist Hospital and the future Viva White Oak development.
- **Montgomery Village Avenue Bikeway:** Design and construct the master-planned bikeway on Montgomery Village Avenue north of the Gaithersburg City line to provide synergies with the coming redevelopment of Lakeforest Mall.
- **Bicycle Parking at Public Schools:** Over the next two years, prioritize funding to upgrade bicycle parking at the following schools: Dr. Ronald A. McNair ES, Glenallen ES, Bells Mills ES, Poolesville ES, Sligo Creek ES, Olney ES, Thomas W. Pyle MS, Silver Spring International MS, North Bethesda MS, Rosa M. Parks MS, Westland MS, Bethesda-Chevy Chase HS, Quince Orchard HS, Walt Whitman HS, and Walter Johnson HS.
- **Systemic Safety Countermeasure Program:** Initiate a funding program focused on systemic improvements that address crash risks identified in the Predictive Safety Analysis.
- **Bicycle Parking Stations:** Fund a bicycle parking station at the Glenmont Metrorail station.
- **Aspen Hill Bicycle-Pedestrian Priority Area project:** Fund a new project to implement the safety recommendations in the Aspen Hill Vision Zero Study.
- **Protected Crossing Spacing:** Continued or increased funding support for the Traffic Signals project (CIP Project No P507154) is needed for the design and construction of more protected crossings to fill in the gaps in the protected crossing network, including those identified in Table 7 of the 2023 Travel Monitoring Report.
- **Grid of Streets:** Continued support is needed to advance projects in the capital budget to build out the street grid, including:
 - North High Street Extended (CIP Project No. P502310) in Olney
 - Summit Avenue Extension (CIP Project No. P502311) in Kensington

ATTACHMENTS

Attachment A – 2023 Planning Board Transportation Priorities

Attachment B – Candidate Locations for Systemic Countermeasure Implementation

Attachment C – 2023 Travel Monitoring Report, Table 7 (excerpt)

Montgomery County Planning Board

THE MARYLAND-NATIONAL CAPITAL PARK AND PLANNING COMMISSION

2425 Reedie Drive
Floor 14
Wheaton, MD 20902

G MontgomeryPlanningBoard.org

July 31, 2023

Council President Evan Glass
Montgomery County Council
Council Office Building
100 Maryland Avenue
Rockville, Maryland 20850

The Honorable Marc Eirich
Montgomery County Executive
Executive Office Building
101 Monroe Street, 4th floor
Rockville, Maryland 20850

Re: Capital Improvements Program Priorities for FY25-30

Dear Council President Glass and County Executive Eirich:

On July 27, 2023, the Planning Board reviewed and approved recommendations regarding prioritization of transportation projects for Montgomery County's Capital Improvements Program (CIP). Enclosed are the Planning Board's recommended transportation priorities for consideration in the preparation of the FY25-30 CIP (Attachment A) as well as excerpts from Planning staff's report explaining the methodology behind the prioritization.

In summary, the Planning Board:

- Focused on prioritizing proposed county investments from both an equity lens and a vision zero lens.
- Maintained the MD 355 BRT and Veirs Mill Road BRT projects as its top two overall priorities.

The Board appreciates your consideration of its comments on the transportation elements of the CIP and look forward to working with your staff. If you have any questions about the recommendations, please call Stephen Aldrich at 301-495-4528, or feel free to call me at 301-495-4628.

Sincerely,



Artie L. Harris
Chair

The Honorable Marc Eirich

July 31, 2023

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Attachments:

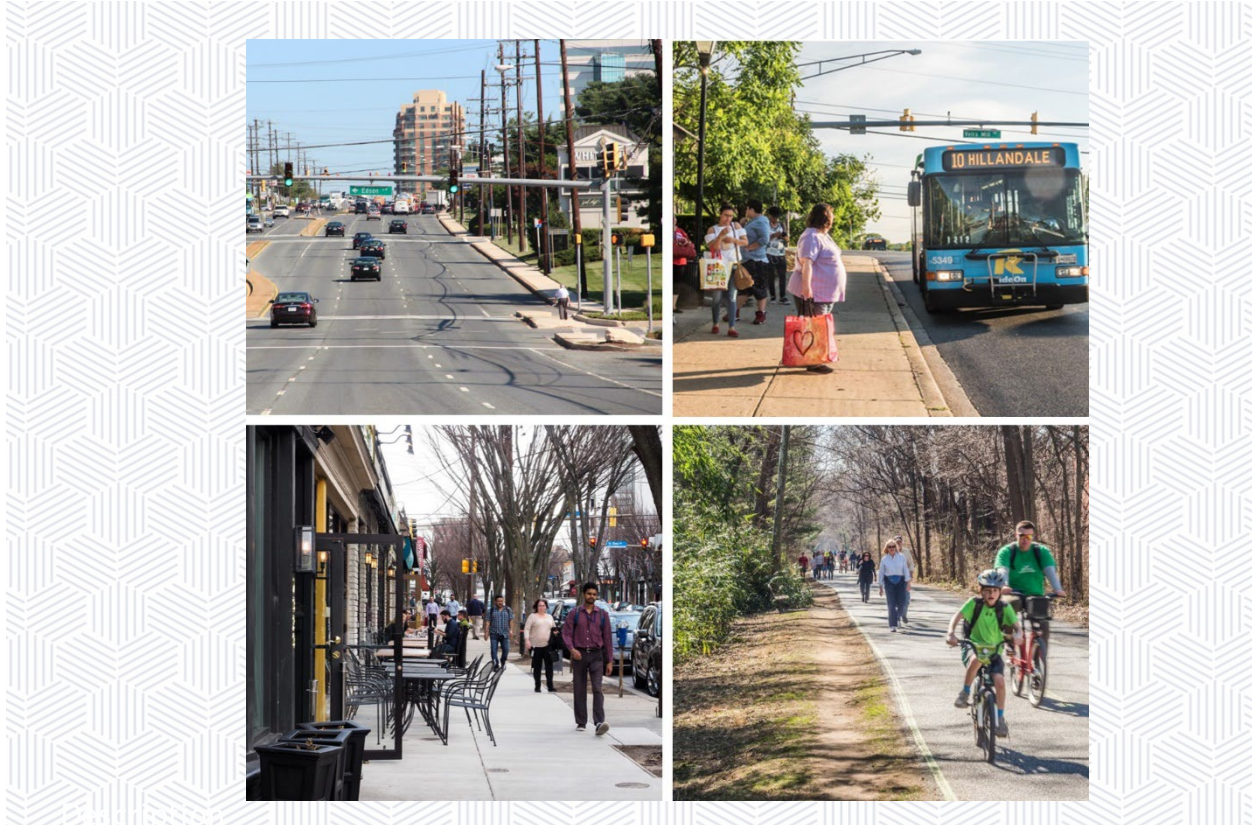
- A Planning Board Transportation Priorities Lists (overall and by transportation category)
- B Excerpts from Planning staff report – CIP Transportation Priorities - July 27, 2023

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CAPITAL IMPROVEMENTS PROGRAM TRANSPORTATION PRIORITIES FOR THE FY25-30 CAPITAL IMPROVEMENTS PROGRAM



Summary

Every two years, the Planning Board transmits a list of recommended transportation projects to the County Executive and County Council for their consideration during the development and approval of the six-year Capital Improvements Program.

Completed: July 20, 2023

MCPB: Item 05
July 27, 2023

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SUMMARY

- Staff recommends transmitting a list of transportation project priorities to the County Executive and County Council for consideration in the FY2025-FY2030 Capital Improvements Program.
- Projects were prioritized based on previous Planning Board prioritization (if applicable), safety considerations, equity considerations, and the bicycle and pedestrian prioritization included in the Planning Board Draft of the Pedestrian Master Plan.
- The prioritization includes 119 projects across nine categories, including 46 bikeway projects, 20 road improvement projects, and nineteen transit projects.

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RECOMMENDATIONS SUMMARY

Planning Staff recommends transmitting the list of transportation project priorities by project category (as shown in Attachment A) to the County Executive and County Council for consideration in the FY2025-FY2030 Capital Improvements Program.

INTRODUCTION

The County Council adopts a six-year Capital Improvements Program (CIP) every two years in May of even-numbered years. The process of preparing the CIP begins much earlier as county agencies submit CIP requests to the County Executive the prior fall. The County Executive releases his recommended CIP on January 15. During the spring, the County Council reviews the County Executive's request and makes amendments to the CIP before adoption. Transportation funding typically constitutes about one-quarter of the CIP. To help inform development of the six-year CIP, the Planning Board transmits a prioritized list of transportation projects to the County Executive and County Council in the summer of odd-numbered calendar years.

This memorandum provides Planning staff's recommended transportation priorities for the upcoming six-year CIP.

2023 RANKING METHODOLOGY

The purpose of this process is to provide a way to objectively prioritize different types of transportation projects as to how they best achieve the county's objectives as outlined in Thrive Montgomery 2050, functional, master and sector plans, and other county policy documents, including the Vision Zero Action Plan. This list is intended to be a resource for the county in selecting projects to be included in the CIP. Projects that are expected to be the State's responsibility are also included because the county has contributed significant funds to such projects in recent years. A project is removed from this list once it is either under construction or fully funded and in the Right of Way acquisition process.

New to this review is a modification of how projects are ranked. Previously we ranked a top 100 list of transportation projects. This year we decided to shift the evaluation to rank the projects solely within each category. This allows a more comparative ranking of similar projects using equity focused tools. We included a top ten list within this memo to highlight the projects that we believe to be the most important projects to move forward across all categories.

For this review, the methodology developed in 2021 has been continued and expanded upon as follows:

- 1) Started with the 2021 Transportation Priorities list as approved by the Planning Board and eliminated projects that were under construction/constructed.

- 2) In a change from 2021, the projects have been sorted into their project Category and then ranked.
- 3) Assigned a weighted Bicycle and Pedestrian Prioritization (BiPPA) score where appropriate to each mappable project and used this score to adjust a project's ranking.
- 4) Included bicycle-related projects from the Bicycle Master Plan Biennial Monitoring Report, 2021-2022.
- 5) Added transportation recommendations from master plans that were approved since the last CIP review in October 2021.
- 6) Adjusted a project's ranking based on how well it addressed the county's Vision Zero goals and the extent to which it would improve safety within the county's High Injury Network (part of the Vision Zero Action Plan).
- 7) Adjusted a project's ranking if it was located in or planned to provide transportation benefits to Equity Focus Areas (EFAs) as designated by Montgomery Planning.
- 8) Adjusted a project's ranking if it addressed the needs/capital improvement implementation plans in an adopted master plan.

PROJECT EVALUATION

Overall, Planning staff prioritized 119 transportation projects, most of which are recommended in master plans. The projects are prioritized based on an in-depth review of the following factors:

- 2021 Planning Board Ranking
- Safety: Is the project located on the county's High Injury Network (HIN)?
- Equity: Is the project located in an Equity Focus Area (EFA)?
- Bicycle and Pedestrian Priority: The Bicycle and Pedestrian Priority Area score identified in the Planning Board Draft of the Pedestrian Master Plan [Appendix](#).

The overall transportation project rankings by project category are shown in Attachment A.

2021 PLANNING BOARD RANKINGS

The starting point for the recommended 2023 Planning Board rankings are the 2021 Planning Board rankings.

SAFETY CONSIDERATIONS

To assess potential safety benefits of the top transportation priorities, an evaluation was conducted to determine if the proposed project would improve the safety of road segments within Montgomery County’s High Injury Network (HIN). The HIN is identified in Montgomery [County’s Vision Zero 2030 Action Plan](#) and includes road segments with five or more severe or fatal collisions per year and one or more collisions per mile per year (excluding interstate highways). The HIN represents 102 road miles, which is only five percent of the county’s road network, but most of these road miles are on some of the heavier-traveled state and county-owned non-interstate roads in Montgomery County. Overall, 47 percent of Planning staff’s recommended priority projects are expected to provide a safety benefit to roads in the High Injury Network. The High Injury Network is shown in Figure 1.

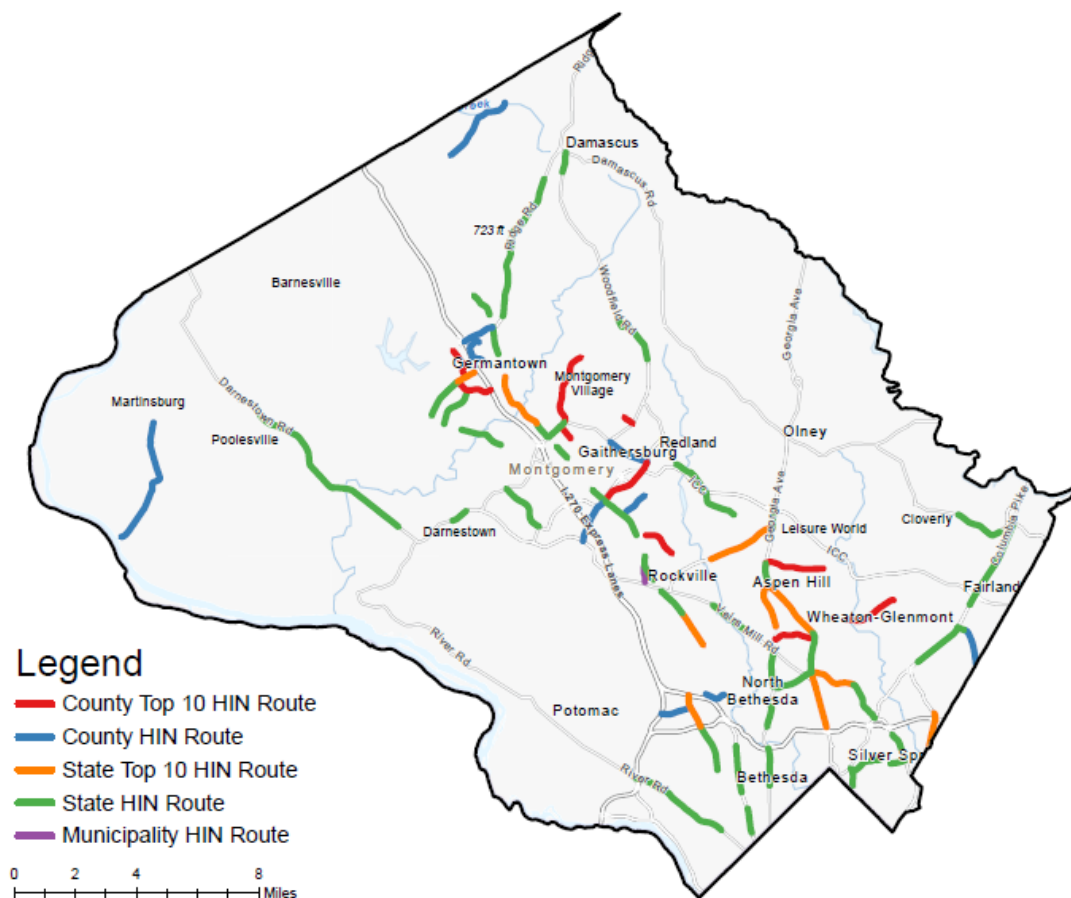


Figure 1: High Injury Network

EQUITY CONSIDERATIONS

Equity has become a major focus within the Planning Department and is one of the core drivers behind the General Plan update, Thrive Montgomery 2050. Recent transportation planning efforts, including the Pedestrian Master Plan and the Bicycle Master Plan Biennial Monitoring Report, include an equity evaluation. The department's Equity Agenda for Planning ensures that equity is a consideration in all the department's work, and Planning staff will continue to enhance our abilities to address equity concerns and evaluate equity impacts. As part of this biennial review, equity remains a primary consideration in the prioritization of transportation CIP projects.

Equity Focus Areas (EFAs) are parts of Montgomery County that are characterized by high concentrations of lower-income people of color who may also speak English less than very well, as shown in Figure 2. While they represent seven percent of the county's land area, they contain approximately 26 percent of the county's population. By comparison, the top transportation CIP project priorities recommended in this staff report present an improved attention to equity, with 62 percent of the priority projects providing transportation benefits to Equity Focus Areas. This is an increase of 8 percent compared to the 2021 evaluation. This represents only projects that are mappable, so it ignores ongoing programmatic services provided by MCDOT including traffic engineering, RideOn services, streetlighting and others. We will continue to work to improve this transportation CIP evaluation process in future biennial reviews.

Overall, significant effort was expended during the project ranking process to include equity to the fullest extent possible.

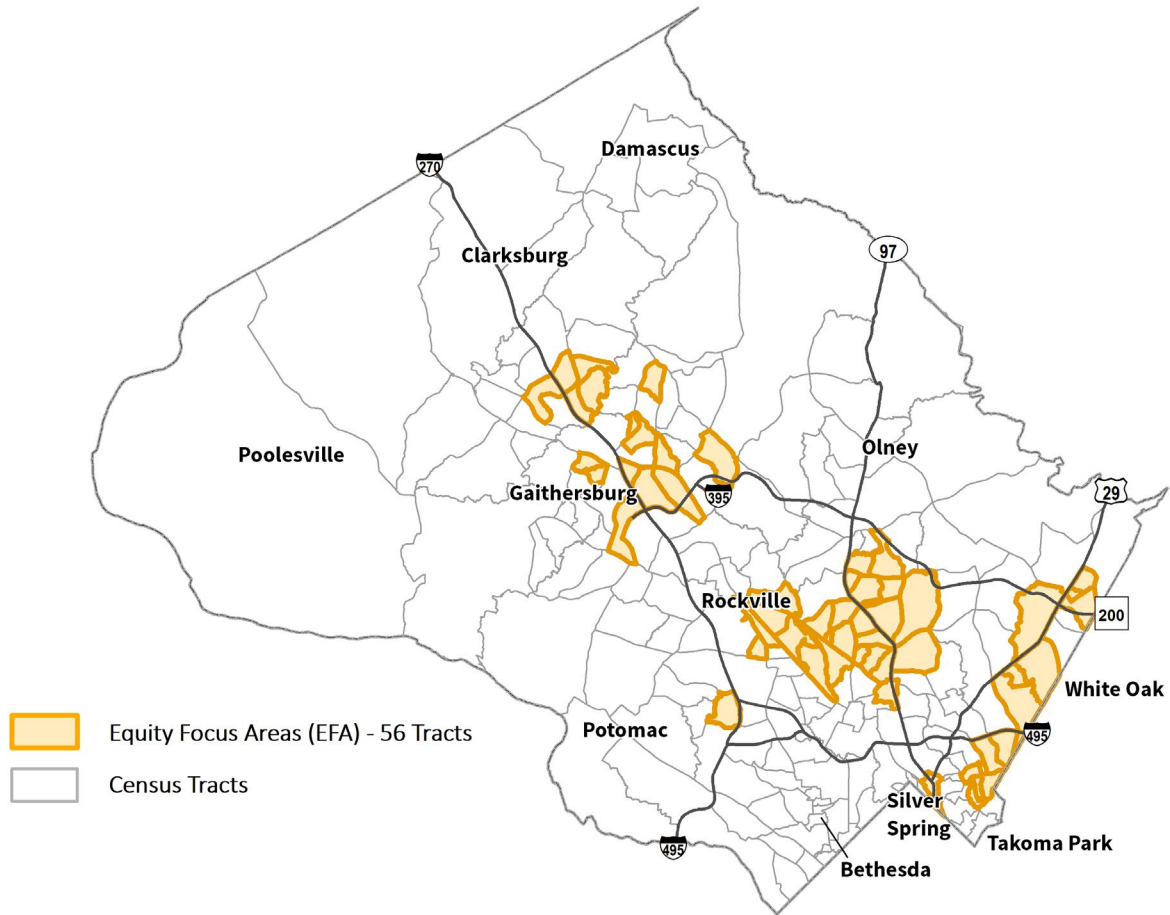


Figure 2: Equity Focus Areas

BICYCLE AND PEDESTRIAN PRIORITY AREAS

The Planning Board Draft of the Pedestrian Master Plan uses a data-driven approach to prioritize where pedestrian and bicycle improvements should be made by reimagining the county’s Bicycle and Pedestrian Priority Area (BiPPA) program framework. This comprehensively evaluates how BiPPAs are created and prioritized. The Pedestrian Master Plan evaluated discreet geographies throughout the county and assigned a score based on the following criteria: pedestrian activity, bicycle activity, pedestrian crashes, bicyclist crashes, pedestrian pathway comfort, bikeway comfort, pedestrian crossing comfort, bicyclist crossing comfort, equity, school access, and transit access. A more detailed explanation of the Pedestrian Master Plan prioritization scoring can be found in the [Prioritization Methodology appendix to the Pedestrian Master Plan](#). Each project is scored on a scale from generally range from 0 (no priority) to 100 (highest priority). The scores are relative, such that a project with a score of 50 would have twice the priority of a project with a score of 25.

PRIORITIZATION

Since fiscal capacity limits the county’s ability to implement all of the transportation projects identified in master plans, this staff report identifies the top 10 transportation projects overall and the top five transportation projects in each transportation category. All the transportation project rankings by project category are shown in Attachment A. For each project, the following information is provided:

- 2023 Priority Ranking
- 2021 Priority Ranking (if applicable)
- Project Name, Description and Limits
- Relevant Master Plan(s)
- Whether the project is located in an Equity Focus Area
- Whether the project is located in the county’s High Injury Network (HIN) and would improve safety
- Bicycle and Pedestrian Priority Area (BiPPA) Score

TOP TRANSPORTATION PROJECTS OVERALL

Table 1 displays the proposed Top Ten priority projects for all transportation modes. The 2023 overall ranking was informed both by the 2021 ranking (out of 100 transportation projects) and the mode-specific prioritization presented in Attachment A. Following is a summary of the top transportation projects selected:

- **Priority #1 – MD 355 Central BRT**
Priority #2 – Veirs Mill Road BRT
 Similar to 2021, two Bus Rapid Transit projects (the MD 355 Central and Veirs Mill Road BRT projects) remain the top two priorities for the county.
- **Priority #3 – MD 97 (Georgia Avenue)/Montgomery Hills Design Project**
 The third priority is a Maryland Department of Transportation State Highway Administration (MDOT SHA) project that is now in 75 percent design. Included in this project, is an MDOT SHA-proposed bikeway extension from 16th Street and MD 97 down 16th Street to Spring Street to link up with existing bikeways on Spring Street and to connect to the planned Woodside Purple Line station. This project is included in this list to indicate level of priority, and while it is desired for this project to be funded entirely by MDOT SHA, there are a lot of interconnections with adjacent county-funded projects.
- **Priority #4 – Vision Zero Projects**
 Vision Zero projects continue to require our constant attention and most discrete level of effort work from staff at the Montgomery County Department of Transportation (MCDOT) to implement on a regular basis.

- **Priority #5 – Level of Effort Sidewalk Retrofit Program**

The Pedestrian Master Plan helped to highlight the under-investments of many county streets for pedestrian infrastructure, particularly the need to improve the safety of crossings and to complete or improve connections to schools, parks and transit. While there is an existing CIP project in the Montgomery County CIP budget for minor projects, the funding level is insufficient to serve the demand and/or need.

- **Priority #6 – Capital Crescent Trail Tunnel (Woodmont Avenue to Elm Street Park)**

The completion of this vital link under Wisconsin Avenue in downtown Bethesda is a critical need to complete the Capital Crescent Trail connection. This project has been a very high priority for the county for many years.

- **Priority #7 – Montgomery Village Avenue Sidepath between Stewartown Road and the City of Gaithersburg**

This sidepath was recently identified during the 2021-2022 Bicycle Monitoring Report as a top equity need within the county. It also will help providing synergies with the coming redevelopment of Lakeforest Mall.

- **Priority #8– Park Trail and Crossings Improvements**

CIP funding is also needed to continue to improve existing trails, trail crossings, and provide protected crossings across the county’s Park system, where feasible.

- **Priority #9 – Aspen Hill BiPPA**

Enhanced funding and the creation of a separate CIP project for the Aspen Hill BiPPA is recommended. This area was the focus of a Vision Zero study by the Planning Department in 2020.

- **Priority #10 – Forest Glen Pedestrian Tunnel**

The Forest Glen Pedestrian Tunnel is a key safety improvement needed to support the Forest Glen Metro station area, as identified in the 2020 Forest Glen/Montgomery Hills Sector Plan. This project has been subject to funding delays and should be advanced expeditiously.

Table 1: Top Ten List - All Transportation Priorities

2023 Overall Priority	2021 Overall Priority	Category	Project	Primary Master Plan	Equity Focus Areas	High Injury Network	BiPPA Score
1	1	Transit	MD 355 Bus Rapid Transit (Central Segment)	Multiple	Yes	Yes	N/A
2	2	Transit	Veirs Mill Road Bus Rapid Transit	Veirs Mill Corridor	Yes	Yes	N/A
3	3	Road Improvements	MD 97 (Georgia Avenue) / Montgomery Hills Design Project	Forest Glen/Montgomery Hills	No	No	12.7
4	5	Transportation Safety	Vision Zero Projects - Design and implement safety countermeasures on identified high-risk and Vision Zero priority state highways, county roads, and Park roads.	Multiple	Yes	Yes	N/A
5	33	Pedestrian	Level-of-Effort Sidewalk Retrofit Program	Pedestrian Master Plan	Yes	Yes	N/A
6	4	Bikeway	Capital Crescent Trail (Woodmont Ave to Elm Street Park)	Bethesda Downtown Plan	No	No	30.4
7	83	Bikeway	Montgomery Village Ave Sidepath (Stewartown Rd to City of Gaithersburg)	Montgomery Village	Yes	No	11.1
8	37	Pedestrian	Create new CIP program to improve existing trail crossings on state and county roads and provide protected crossings where warranted.	Multiple	Yes	Yes	N/A
9	N/A	Transportation Safety	Aspen Hill BiPPA- Create new project PDF in CIP budget	Aspen Hill	Yes	Yes	5.1
10	7	Pedestrian	Forest Glen Pedestrian Tunnel	Forest Glen/Montgomery Hills	No	Yes	10.4

NOTE: The ranking generally does not include programmatic CIP projects that are ongoing efforts/services provided by the Montgomery County Department of Transportation (including traffic engineering, traffic signal maintenance and operation, streetlighting, and others). A few were included in this list, due to a perceived need to increase the county's level of investment in key bicycle and pedestrian infrastructure.

TOP PROJECTS BY TRANSPORTATION CATEGORY

The top transportation project priorities for 2023 represent substantial changes from 2021, with 27 new projects and ten projects removed. The MD 355 BRT project has been split into three parts. These new entries reflect changing priorities from the Bicycle Master Plan Monitoring Report, recently completed master plans and sector plans, and changing county priorities, including an increased emphasis on equity.

The 119 projects present a wide diversity of transportation projects, fully consistent with current county policies. Figure 3 below shows the breakdown of the 119 transportation priorities by project category. The largest share of projects is the bikeways category (46 projects). The second highest category is road improvements (20 projects) followed closely by transit projects (19 projects). Compared to 2021, the Road Diet and Road Widening categories were merged into a single Road Improvements category. Additionally, Planning staff created the Shared Street category for this 2023 evaluation, so there is no comparison to 2021 available.

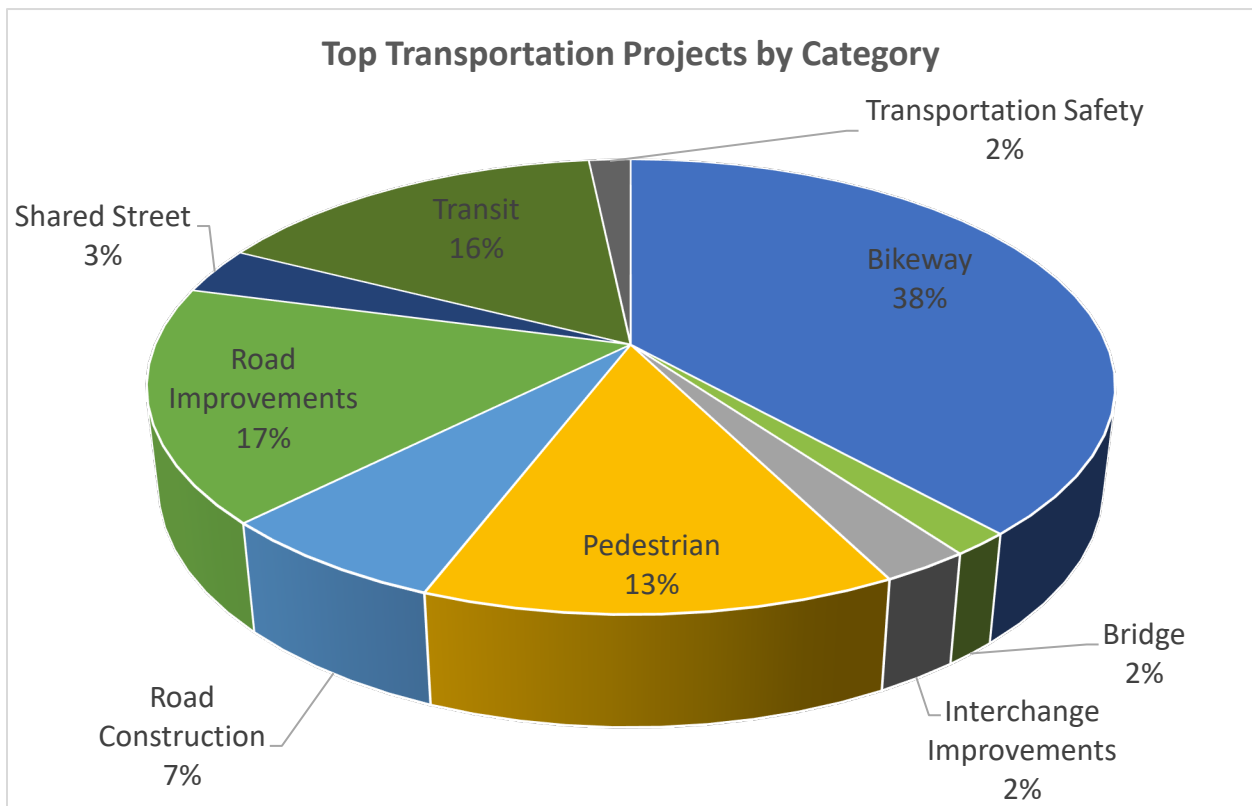


Figure 3: Top Transportation Project Priorities by Category

Within the proposed 119 transportation project priorities, there are 27 new entries as shown below:

- Bikeway

- #4 - Tech Road from Columbia Pike to Industrial Parkway
- #15 - MD 355 (West Side) Sidepath (Germantown Road to Shakespeare Road)
- #16 - Old Georgetown Road Breezeway (Towne Road to Tuckerman Lane)
- #17 - Lost Knife Road Separated Bike Lanes (City of Gaithersburg to Odenhal Avenue)
- #18 - Wisteria Drive Sidepath/Separated Bike Lanes (Father Hurley Blvd to Great Seneca Highway)
- #19 - Holdridge Road Neighborhood Greenway (Matthew Henson Trail to Georgia Avenue)
- #20 - Old Columbia Pike Sidepath (Tech Road to White Oak Shopping Center)
- #21 - Silver Spring Avenue between Georgia Avenue and Fenton Street
- #22 - East-West Highway Road Diet – Downtown Silver Spring
- #24 - 1st Street from Spring Street to Fenwick Lane
- #25 - 1st Street Extended from Fenwick Lane to Ramsey Avenue
- #26 - Blair Mill Road between Eastern Avenue and East-West Highway
- Interchange Improvements
 - #3 - Facility and Needs Study for Industrial Parkway Interchange
- Pedestrian
 - #19 – Fairland Briggs-Chaney Neighborhood Connection Trails
 - #20 – Protected Intersections at High-Injury Intersections in FBC Plan Area
- Road Improvements
 - #3 – Colesville Road: removal of dynamic lane operation
 - #9 – Road Diet Study for Briggs Chaney Rd. (Old Columbia Pike to ICC)
 - #11 – Feasibility Study for Roundabouts on Briggs Chaney Road
 - #12 – Enhanced Crossing for Briggs Chaney Rd. / US 29 Bridge
 - #14 – Road Diet Study for Fairland Rd. (Old Columbia Pike to Briggs Chaney Rd.)
 - #15 – Road Diet Study for East Randolph Road (Old Columbia Pike to Cherry Hill Rd.)
 - #17 – Road Diet Study for Old Columbia Pike (Tech Rd. to Briggs Chaney Rd.)
- Shared Streets
 - #1 – Newell Street Shared Street between East-West Highway and Kennett Street
 - #2 – Ellsworth Drive Shared Street between Fenton Street and Veterans Plaza
 - #3 – Bonifant Shared Street between Dixon Avenue and Georgia Avenue
- Transit
 - #7 - Colesville Road road-diet for dedicated bus lanes
- Transportation Safety
 - #2 - Aspen Hill BiPPA

The majority of these new entries are bikeway projects, some recommended in recent master or sector plans, while others are being advanced as part of the Bicycle Master Plan Biennial Monitoring Report for equity reasons. It is important to note that some of projects identified above and classified as Bikeway projects include provision of a sidepath which actually serves both pedestrians and bicyclists.

BIKEWAYS

The top transportation priorities lists include 46 bikeway projects, 12 of which are newly included in the list, as shown in Attachment A. The new projects reflect the Bicycle Master Plan Biennial Monitoring Report, 2021-2022 that the Planning Board reviewed in June 2023, which has recommended focusing on projects located in Equity Focus Areas. The top five projects are displayed in Table 2.

Table 2: Top Bikeway Projects

2023 Category Priority	2021 Overall Priority	Project	Primary Master Plan	Equity Focus Areas	High Injury Network	BiPPA Score
1	4	Capital Crescent Trail (Woodmont Ave to Elm Street Park)	Bethesda Downtown Plan	No	Yes	30.4
2	83	Montgomery Village Ave Sidepath (Wightman Rd to City of Gaithersburg)	Montgomery Village	Yes	No	11.1
3	76	Broadbirch Dr Separated Bike Lanes (Tech Rd to Cherry Hill Rd)	White Oak Science Gateway	No	No	1.2
4	46	Castle Blvd Separated Bike Lanes (Castle Ridge Cir to Briggs Chaney Rd)	Fairland	Yes	No	9.6
5	N/A	Tech Rd Separated Bike Lanes from Columbia Pike to Industrial Pkwy	White Oak Science Gateway	Yes	No	1.8

Bicycle projects are typically programmed in three different methods by the Montgomery County Department of Transportation (MCDOT):

- 1) As part of a Bicycle-Pedestrian Priority Area (CIP item)
- 2) As a stand-alone CIP project
- 3) As part of the “Bicycle Program Minor Projects” CIP project (P507596)

Of the 46 bicycle projects identified in the prioritization list, the vast majority are located primarily within BiPPA boundaries of already funded BiPPA CIP projects. The CIP budget, however, may not be adequate to accommodate the addition of these recommended projects. MCDOT should review and seek budget modifications, as necessary.

BRIDGES

As shown in Table 3, two bridge projects are identified in the top transportation priorities lists (Attachment A). These projects are critical to expanding the transportation network as recommended in their respective master plans.

Table 3: Top Bridge Projects

2023 Category Priority	2021 Overall Priority	Project	Primary Master Plan	Equity Focus Areas	High Injury Network	BiPPA Score
1	53	Old Columbia Pike Bridge at Paint Branch	White Oak Science Gateway	Yes	Yes	3.0
2	42	Dorsey Mill Bridge	Germantown Employment Area	No	No	3.2

INTERCHANGE IMPROVEMENTS

Table 4 identifies the top three interchange projects.

Table 4: Top Interchange Projects

2023 Category Priority	2021 Overall Priority	Project	Primary Master Plan	Equity Focus Areas	High Injury Network	BiPPA Score
1	40	Georgia Ave (MD97) at Norbeck Rd (MD28)	Kensington/Wheaton	No	Yes	N/A
2	44	Little Seneca Pkwy Extended or Newcut Road/I-270 Interchange	Ten Mile Creek	No	No	N/A
3	N/A	Facility and Needs Study for Industrial Pkwy Interchange	White Oak Science Gateway	Yes	No	N/A

PEDESTRIANS

The top transportation priorities lists include 16 pedestrian projects as shown in Attachment A. Table 5 identifies the top five pedestrian projects.

Table 52: Top Pedestrian Projects

2023 Category Priority	2021 Overall Priority	Project	Primary Master Plan	Equity Focus Areas	High Injury Network	BiPPA Score
1	33	Level-of-Effort Sidewalk Retrofit Program	Pedestrian Master Plan	Yes	Yes	N/A
2	37	Create new CIP program to improve existing trail crossings on state and county roads and provide protected crossings where warranted.	Multiple	Yes	Yes	N/A
3	67	Introduce additional protected crossings along Veirs Mill Rd	Veirs Mill Corridor	Yes	Yes	17.5
4	15	16th St/Woodside Station Pedestrian Crossing (Related to two 16th Street projects)	Greater Lyttonsville	Yes	No	6.6
5	29	Dale Dr Shared Use Path and Safety Improvements	North and West Silver Spring	No	No	20.8

ROAD CONSTRUCTION

The top transportation priorities lists include eight new road construction projects as shown in Attachment A. Table 6 shows the top five road construction projects.

Table 63: Top Road Construction Projects

2023 Category Priority	2021 Overall Priority	Project	Primary Master Plan	Equity Focus Areas	High Injury Network	BiPPA Score
1	13	Burtonsville Rear Business Access Rd (north of MD 198)	Burtonsville Crossroads	No	No	N/A
2	35	Pearl Street Connector	Bethesda Downtown Plan	No	No	N/A
3	38	Observation Dr Extended (A-19) between Waters Discovery Ln and Little Seneca Pkwy	Clarksburg	No	No	N/A
4	57	Locbury Dr (B-5)	Germantown Employment Area	Yes	Yes	N/A
5	49	New Road (B-25)	Germantown Employment Area	No	No	N/A

ROAD IMPROVEMENTS

The top transportation priorities lists include 20 road improvement projects as shown in Attachment A. Table 7 shows the top five road improvement projects.

Table 74: Top Road Improvement Projects

2023 Category Priority	2021 Overall Priority	Project	Primary Master Plan	Equity Focus Areas	High Injury Network	BiPPA Score
1	3	MD 97 (Georgia Avenue)/Montgomery Hills Design Project	Forest Glen/Montgomery Hills	No	No	12.7
2	63	Burtonsville Rd (MD198)	Burtonsville Crossroads	No	No	2.6
3	N/A	Colesville Rd: Removal of dynamic lane operation	2022 SSDAC	No	No	35.8
4	69	Redesign of River Rd with median	Westbard	No	No	3.2
5	71	Reconfigure E-W Hwy, Montgomery Ln Old Georgetown Rd and Woodmont Ave into two-way street systems. Alternatively, keep one-way pair but implement a road diet to accommodate bicycle facilities and wider sidewalks.	Bethesda Downtown Plan	No	Yes	30.4

SHARED STREETS

Table 8 identifies all shared street project priorities.

Table 85: Top Shared Streets Projects

2023 Category Priority	2021 Overall Priority	Project	Primary Master Plan	Equity Focus Areas	High Injury Network	BiPPA Score
1	N/A	Newell St Shared Street between East-West Hwy and Kennett St	Silver Spring Downtown	Yes	No	37.7
2	N/A	Ellsworth Dr Shared Street between Fenton St and Veterans Plaza	Silver Spring Downtown	Yes	No	37.7
3	N/A	Bonifant St Shared Street between Dixon Ave and Georgia Ave	Silver Spring Downtown	Yes	No	37.7
4	75	Norfolk Ave Shared Street between Battery Lane Urban Park and Tilbury Street	Bethesda Downtown Plan	No	No	30.4

TRANSIT

The top transportation priorities lists include 19 transit projects, including two new projects as shown in Attachment A. Bus rapid transit projects continue to be a central focus for the county. The top five transit projects are shown below in Table 9. This priority order is generally consistent with a transit ranking prepared by the Planning Board in 2022 for the Joint Transportation Priority Letter. The staff report from the January 19, 2023 is included as Attachment B.

Table 96: Top Transit Projects

2023 Category Priority	2021 Overall Priority	Project	Primary Master Plan	Equity Focus Areas	High Injury Network	BiPPA Score
1	1	MD 355 Bus Rapid Transit (Central Segment)	Multiple	Yes	Yes	N/A
2	2	Veirs Mill Road Bus Rapid Transit	Veirs Mill Corridor Master Plan	Yes	Yes	N/A
3	N/A	U.S. 29 BRT Phase 2 Corridor Study (Tech Road to Sligo Creek Pkwy)	Multiple	Yes	No	N/A
4	21	New Hampshire Ave BRT	Multiple	Yes	Yes	N/A
5	20	I-270 Transit Corridor Connectors	Corridor Forward: The I-270 Transit Plan	Yes	Yes	N/A

TRANSPORTATION SAFETY

There are two transportation safety projects as shown below in Table 10 and included in Attachment A.

Table 107: Top Transportation Safety Projects

2023 Category Priority	2021 Overall Priority	Project	Primary Master Plan	Equity Focus Areas	High Injury Network	BiPPA Score
1	5	Vision Zero Projects - Design and implement safety countermeasures on identified high-risk and Vision Zero priority state highways, county roads, and Park roads.	Countywide	Yes	Yes	N/A
2	N/A	Aspen Hill BiPPA	Aspen Hill	Yes	Yes	5.1

RECOMMENDATIONS/COMMENTS

The identification of CIP transportation priorities is one tool that planners use to evaluate the extent to which the transportation elements of the county's multiple master plans have been built, offering guidance as to what remains to be completed and providing feedback to the county by identifying projects for consideration when CIP programs are under development. This information will be stored in a GIS format and maintained to facilitate tracking of what remains unbuilt in future years.

Staff recommends transmitting a list of transportation project priorities to the County Executive and County Council for consideration in the FY2025-FY2030 Capital Improvements Program.

ATTACHMENTS

Attachment A: Top Transportation Project Priorities by Category 2023

Attachment B: January 19, 2023 Joint Transportation Priorities Letter to the Montgomery County Council

Attachment A: 2023 Transportation CIP Priorities by Category

Attachment A: 2030 Planning Board Transportation Priorities

2023 Category Ranking	2021 Overall Ranking	Category	Project	Primary Master Plan	Equity Focus Areas	High Injury Network	BiPPA Score	EFA Score	CEI	CEI Description
1	4	Bikeway	Capital Crescent Trail Breezeway (Woodmont Ave to Elm Street Park)	Bethesda Downtown Plan	No	Yes	30.4	0.00	2.23	Moderately Disproportionate - Advantaged
2	83	Bikeway	Montgomery Village Ave (east Side Sidepath (Wightman Rd to City of Gaitherburg)	Montgomery Village	Yes	No	11.1	0.61	-2.04	Moderately Disproportionate - Disadvantaged
3	76	Bikeway	Broadbirch Dr Separated Bike Lanes (Tech Rd to Cherry Hill Rd)	White Oak Science Gateway	No	No	1.2	0.99	-0.44	Proportionate - Neither Advantaged nor Disadvantaged
4	46	Bikeway	Castle Blvd (Castle Ridge Cir to Briggs Chaney Rd)	Fairland	Yes	No	9.6	1.00	-3.32	Highly Disproportionate - Disadvantaged
5	N/A	Bikeway	Tech Road Separated Bike Lanes (Columbia Pike to Industrial Parkway)	White Oak Science Gateway	Yes	No	1.8	1.00	-0.45	Proportionate - Neither Advantaged nor Disadvantaged
6	12	Bikeway	Woodmont Ave Separated Bike Lanes (Strathmore St to Wisconsin Ave)	Bethesda Downtown Plan	No	Yes	30.4	0.00	0.40	Proportionate - Neither Advantaged nor Disadvantaged
7	23	Bikeway	Fenton St Separated Bike Lanes (Ellsworth Dr to King St)	2022 SSDAC	Yes	Yes	37.7	0.68	-0.98	Proportionate - Neither Advantaged nor Disadvantaged
8	97	Bikeway	13th Street/Burlington Ave Separated Bike Lanes (DC Line to Fenton Street)	2022 SSDAC	Yes	Yes	36.8	0.66	-0.59	Proportionate - Neither Advantaged nor Disadvantaged
9	70	Bikeway	Arlington Rd Separated Bike Lanes (Old Georgetown Rd to Bradley Blvd)	Bethesda Downtown Plan	No	Yes	30.4	0.00	2.45	Moderately Disproportionate - Advantaged

Attachment A: 2023 Transportation CIP Priorities by Category

Attachment A: 2030 Planning Board Transportation Priorities

2023 Category Ranking	2021 Overall Ranking	Category	Project	Primary Master Plan	Equity Focus Areas	High Injury Network	BiPPA Score	EFA Score	CEI	CEI Description
10	68	Bikeway	Cherry Hill Rd Separated Bike Lanes (Prosperity Dr to Prince George's County)	White Oak Science Gateway	No	No	1.2	0.99	-0.44	Proportionate - Neither Advantaged nor Disadvantaged
11	72	Bikeway	Edgemoor Ln Neighborhood Greenway (Exeter Rd to Bethesda Metro Station)	Bethesda Downtown Plan	No	No	13.9	0.00	3.99	Highly Disproportionate - Advantaged
12	61	Bikeway	Friendship Blvd Separated Bike Lanes (Willard Ave to District of Columbia)	Friendship Heights	No	No	19.3	0.00	0.22	Proportionate - Neither Advantaged nor Disadvantaged
13	48	Bikeway	Grandview Ave Neighborhood Greenway (Arcola Ave to Reedie Dr)	Wheaton CBD	Yes	Yes	16.7	0.86	-1.13	Slightly Disproportionate - Disadvantaged
14	66	Bikeway	Marinelli Rd Separated Bike Lanes (Executive Blvd to Woodglen Dr)	White Flint	No	No	7.2	0.01	0.07	Proportionate - Neither Advantaged nor Disadvantaged
15	N/A	Bikeway	MD 355 (West Side) Sidepath (Germantown Road to Shakespeare Road)	Germantown Employment Area	Yes	Yes	16.7	0.70	-0.79	Proportionate - Neither Advantaged nor Disadvantaged
16	N/A	Bikeway	Old Georgetown Road Breezeway (Towne Road to Tuckerman Lane)	North Bethesda/ Garrett Park	No	No	16.7	0.00	1.77	Slightly Disproportionate - Advantaged
17	N/A	Bikeway	Lost Knife Road Separated Bike Lanes (City of Gaithersburg to Odenhal Avenue)	Montgomery Village	Yes	Yes	4.7	0.98	-3.12	Highly Disproportionate - Disadvantaged
18	N/A	Bikeway	Wisteria Drive Sidepath/Separated Bike Lanes (Father Hurley Blvd to Great Seneca Highway)	Germantown Employment Area	Yes	Yes	5.3	0.17	-1.83	Slightly Disproportionate - Disadvantaged

Attachment A: 2023 Transportation CIP Priorities by Category

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2023 Category Ranking	2021 Overall Ranking	Category	Project	Primary Master Plan	Equity Focus Areas	High Injury Network	BiPPA Score	EFA Score	CEI	CEI Description
19	N/A	Bikeway	Holdridge Road Neighborhood Greenway (Matthew Henson Trail to Georgia Avenue)	Kensington/Wheaton & Glenmont	Yes	No	3.0	1.00	-1.05	Slightly Disproportionate - Disadvantaged
20	N/A	Bikeway	Old Columbia Pike Sidepath (Tech Road to White Oak Shopping Center)	White Oak Science Gateway	Yes	No	3.0	0.92	-1.74	Slightly Disproportionate - Disadvantaged
21	N/A	Bikeway	Silver Spring Avenue between Georgia Avenue and Fenton Street	2022 SSDAC	Yes	No	37.5	0.67	-1.42	Slightly Disproportionate - Disadvantaged
22	N/A	Bikeway	East-West Highway Road Diet	2022 SSDAC	Yes	No	37.7	0.68	-0.18	Proportionate - Neither Advantaged nor Disadvantaged
23	91	Bikeway	Glenmont to Silver Spring Breezeway (Fenton Street: Cameron St to Ellsworth Dr)	2022 SSDAC	Yes	Yes	37.7	0.68	-0.95	Proportionate - Neither Advantaged nor Disadvantaged
24	N/A	Bikeway	1st Street from Spring Street to Fenwick Lane	2022 SSDAC	No	No	37.7	0.68	0.83	Proportionate - Neither Advantaged nor Disadvantaged
25	N/A	Bikeway	1st Street Extended from Fenwick Lane to Ramsey Avenue	2022 SSDAC	No	No	37.7	0.68	-0.92	Proportionate - Neither Advantaged nor Disadvantaged
26	N/A	Bikeway	Blair Mill Road between Eastern Avenue and East-West Highway	2022 SSDAC	Yes	No	36.3	0.65	-0.79	Proportionate - Neither Advantaged nor Disadvantaged

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2023 Category Ranking	2021 Overall Ranking	Category	Project	Primary Master Plan	Equity Focus Areas	High Injury Network	BiPPA Score	EFA Score	CEI	CEI Description
27	11	Bikeway	City of Rockville to Friendship Heights Breezeway (Old Georgetown Rd to Strathmore St)	Bethesda Downtown Plan	No	Yes	30.4	0.00	1.51	Slightly Disproportionate - Advantaged
28	9	Bikeway	Montgomery Ave Separated Bike Lanes (Pearl St to East West Hwy)	Bethesda Downtown Plan	No	Yes	30.4	0.00	2.51	Moderately Disproportionate - Advantaged
29	22	Bikeway	City of Rockville to Friendship Heights Breezeway (Battery Ln to Old Georgetown Rd)	Bethesda Downtown Plan	No	No	30.4	0.00	0.27	Proportionate - Neither Advantaged nor Disadvantaged
30	56	Bikeway	Flower Ave to University Blvd Neighborhood Greenway (Flower Ave to University Blvd)	Long Branch	Yes	Yes	18.5	0.93	-3.34	Highly Disproportionate - Disadvantaged
31	77	Bikeway	Briggs-Chaney Rd (North Side) Sidepath (Old Columbia Pike to ICC Trail)	Fairland/Briggs-Chaney	Yes	No	18.8	0.80	-1.96	Slightly Disproportionate - Disadvantaged
32	87	Bikeway	Piney Branch Rd (MD 320) Separated Bike Lanes (University Blvd to Prince George's Co Line)	Long Branch	Yes	Yes	12.3	0.97	-3.36	Highly Disproportionate - Disadvantaged
33	24	Bikeway	Glenmont to Silver Spring Breezeway (Arcola Ave to University Ave)	Wheaton CBD	Yes	Yes	14.5	0.52	-1.11	Slightly Disproportionate - Disadvantaged
34	89	Bikeway	Scenery Drive Sidepath (Germantown Rd to Frederick Rd)	Germantown Employment Area	Yes	Yes	13.9	1.00	-1.40	Slightly Disproportionate - Disadvantaged

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2023 Category Ranking	2021 Overall Ranking	Category	Project	Primary Master Plan	Equity Focus Areas	High Injury Network	BiPPA Score	EFA Score	CEI	CEI Description
35	14	Bikeway	16th Street Road Diet and Separated Bike Lanes	Greater Lyttonsville	Yes	No	15.9	0.21	-0.32	Proportionate - Neither Advantaged nor Disadvantaged
36	50	Bikeway	Greenwood Ave Neighborhood Greenway (Wabash Ave to Piney Brnch)	Long Branch	Yes	No	11.2	0.97	-2.87	Moderately Disproportionate - Disadvantaged
37	81	Bikeway	Germantown Road (North Side) Sidepath (Clopper Rd to Middlebrook Rd)	Germantown Employment Area	Yes	No	9.2	0.09	-0.48	Proportionate - Neither Advantaged nor Disadvantaged
38	52	Bikeway	Germantown Town Center BiPPA	Germantown Employment Area	Yes	Yes	5.3	0.17	-1.36	Slightly Disproportionate - Disadvantaged
39	93	Bikeway	Wayne Ave to Fenton St Neighborhood Greenway (Wayne Ave to Fenton St)	2022 SSDAC	Yes	Yes	5.9	0.02	-0.37	Proportionate - Neither Advantaged nor Disadvantaged
40	59	Bikeway	Selfridge Rd Neighborhood Greenway (Aspen Hill Rd to Veirs Mill Rd)	Veirs Mill Corridor MP	Yes	No	4.1	0.74	-2.38	Moderately Disproportionate - Disadvantaged
41	36	Bikeway	Glenmont to Silver Spring Breezeway (Georgia Ave to Arcola Ave)	Wheaton CBD	Yes	Yes	4.4	1.00	-1.31	Slightly Disproportionate - Disadvantaged
42	94	Bikeway	Glenmont to Silver Spring Breezeway (Columbia Blvd to Spring St)	Bicycle Master Plan	No	No	3.4	0.00	1.96	Slightly Disproportionate - Advantaged
43	90	Bikeway	Life Sciences Center Loop (Key West Ave to Great Seneca Hwy)	Great Seneca Science Corridor	No	No	2.7	0.35	-1.17	Slightly Disproportionate - Disadvantaged

Attachment A: 2023 Transportation CIP Priorities by Category

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2023 Category Ranking	2021 Overall Ranking	Category	Project	Primary Master Plan	Equity Focus Areas	High Injury Network	BiPPA Score	EFA Score	CEI	CEI Description
44	55	Bikeway	Veirs Mill Rd (MD 586) Neighborhood Greenway (Glorus Pl to Veirs Mill Rd)	Veirs Mill Corridor MP	Yes	Yes	2.2	0.02	0.44	Proportionate - Neither Advantaged nor Disadvantaged
45	96	Bikeway	Frederick Rd Sidepath (Snowden Farm Pkwy to Stringtown Rd)	Clarksburg	No	No	1.9	0.00	0.44	Proportionate - Neither Advantaged nor Disadvantaged
46	73	Bikeway	ICC Bikeway (Emory Lane to Prince George's County Line)	Mutiple	Yes	No	1.4	0.23	0.10	Proportionate - Neither Advantaged nor Disadvantaged
1	53	Bridge	Old Columbia Pike Bridge at Paint Branch	White Oak Science Gateway	Yes	Yes	N/A	1.00	-0.44	Proportionate - Neither Advantaged nor Disadvantaged
2	42	Bridge	Dorsey Mill Bridge and Road (B-14)	Germantown Employment Area	No	No	N/A	0.06	-0.72	Proportionate - Neither Advantaged nor Disadvantaged
1	40	Interchange Improvements	Georgia Avenue (MD97) at Norbeck Road (MD28)	Kensington/Wheaton	No	Yes	N/A	0.00	1.31	Slightly Disproportionate - Advantaged
2	44	Interchange Improvements	Little Seneca Parkway Extended or Newcut Road/I-270 Interchange	Ten Mile Creek	No	No	N/A	0.00	-0.16	Proportionate - Neither Advantaged nor Disadvantaged
3	N/A	Interchange Improvements	Facility and Needs Study for Industrial Parkway Interchange	White Oak Science Gateway	Yes	No	N/A	0.59	-0.81	Proportionate - Neither Advantaged nor Disadvantaged

Attachment A: 2023 Transportation CIP Priorities by Category

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2023 Category Ranking	2021 Overall Ranking	Category	Project	Primary Master Plan	Equity Focus Areas	High Injury Network	BiPPA Score	EFA Score	CEI	CEI Description
1	5	Transportation Safety	Vision Zero Projects - Design and implement safety countermeasures on identified high-risk and Vision Zero priority state highways, county roads, and Park roads.	Multiple	Yes	Yes	N/A	N/A	N/A	N/A
2		Transportation Safety	Aspen Hill BiPPA	Aspen Hill	Yes	Yes	5.1	0.51	-1.56	Slightly Disproportionate - Disadvantaged
1	33	Pedestrian	Level-of-Effort Sidewalk Retrofit Program	Multiple	Yes	Yes	N/A	N/A	N/A	N/A
2	37	Pedestrian	Improve existing trail crossings on state and county roads and provide protected crossings where warranted. Create new CIP project at the county level for MCDOT trail crossing improvements.	Multiple	Yes	Yes	N/A	N/A	N/A	N/A
3	67	Pedestrian	Introduce additional protected crossings along Veirs Mill Road	Veirs Mill Corridor MP	Yes	Yes	17.5	0.86	-1.16	Slightly Disproportionate - Disadvantaged
4	15	Pedestrian	16th Street/Woodside Station Pedestrian Crossing (Related to two 16th Street projects)	Greater Lyttonsville	Yes	No	6.6	0.00	-1.27	Slightly Disproportionate - Disadvantaged
5	7	Pedestrian	Forest Glen Pedestrian Tunnel	Forest Glen/Montgomery Hills	No	Yes	N/A	0.00	-0.49	Proportionate - Neither Advantaged nor Disadvantaged

Attachment A: 2023 Transportation CIP Priorities by Category

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2023 Category Ranking	2021 Overall Ranking	Category	Project	Primary Master Plan	Equity Focus Areas	High Injury Network	BiPPA Score	EFA Score	CEI	CEI Description
6	29	Pedestrian	Dale Drive Sidepath	North and West Silver Spring	No	No	20.8	0.00	1.96	Slightly Disproportionate - Advantaged
7	16	Pedestrian	Lyttonsville Station Brookville Road Entrance	Greater Lyttonsville	Yes	No	3.0	0.00	-1.16	Slightly Disproportionate - Disadvantaged
8	18	Pedestrian	Sidewalks access to transit along New Hampshire Ave	East Silver Spring	Yes	Yes	13.5	0.26	-1.20	Slightly Disproportionate - Disadvantaged
9	95	Pedestrian	Sidewalk gap on Shady Grove Road	Shady Grove Minor MP	Yes	Yes	11.4	0.44	-0.28	Proportionate - Neither Advantaged nor Disadvantaged
10	39	Pedestrian	Matthew Henson Trail Overpass at Veirs Mill Road (MD 586)	Veirs Mill Corridor MP	Yes	Yes	17.5	0.86	-2.09	Moderately Disproportionate - Disadvantaged
11	60	Pedestrian	Provide a sidewalk and bikeway along Redland Road between MD 200 and Needwood Road.	Shady Grove	Yes	No	16.0	0.21	0.80	Proportionate - Neither Advantaged nor Disadvantaged
12	54	Pedestrian	Sidewalk construction on "Community Connector Streets"	Greater Lyttonsville	Yes	No	4.8	0.00	-1.13	Slightly Disproportionate - Disadvantaged
13	84	Pedestrian	Olney Sandy Spring Rd	Sandy Spring/Ashton	No	No	4.6	0.00	0.89	Proportionate - Neither Advantaged nor Disadvantaged
14	88	Pedestrian	Construct shared-use path on Westbard Ave from Westbard Cir to Massachusetts Ave	Westbard	No	No	3.5	0.00	1.99	Slightly Disproportionate - Advantaged
15	51	Pedestrian	Oakview Drive pedestrian and transit access	East Silver Spring	Yes	Yes	3.2	0.99	-3.93	Highly Disproportionate - Disadvantaged

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2023 Category Ranking	2021 Overall Ranking	Category	Project	Primary Master Plan	Equity Focus Areas	High Injury Network	BiPPA Score	EFA Score	CEI	CEI Description
16	N/A	Pedestrian	FBC Neighborhood Connection Trails	Fairland and Briggs Chaney	Yes	No	2.2	1.00	-3.80	Highly Disproportionate - Disadvantaged
17	N/A	Pedestrian	Protected Intersections at High-Injury Intersections in FBC Plan Area	Fairland and Briggs Chaney	Yes	Yes	2.2	1.00	-1.69	Slightly Disproportionate - Disadvantaged

Attachment A: 2023 Transportation CIP Priorities by Category

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2023 Category Ranking	2021 Overall Ranking	Category	Project	Primary Master Plan	Equity Focus Areas	High Injury Network	BiPPA Score	EFA Score	CEI	CEI Description
1	13	Road Construction	Burtonsville Rear Business Access Road (north of MD 198)	Burtonsville Crossroads	No	No	N/A	0.00	0.14	Proportionate - Neither Advantaged nor Disadvantaged
2	35	Road Construction	Pearl Street Connector	Bethesda Downtown Plan	No	No	N/A	0.00	2.51	Moderately Disproportionate - Advantaged
3	38	Road Construction	Observation Drive Extended (A-19) between Waters Discovery Lane and Little Seneca Parkway	Clarksburg	No	No	N/A	0.00	0.09	Proportionate - Neither Advantaged nor Disadvantaged
4	57	Road Construction	Locbury Drive (B-5)	Germantown Employment Area	Yes	Yes	N/A	0.17	-1.35	Slightly Disproportionate - Disadvantaged
5	49	Road Construction	New Road (B-25)	Germantown Employment Area	No	No	N/A	0.01	-1.05	Slightly Disproportionate - Disadvantaged
6	86	Road Construction	Crabbs Branch Way extension	Shady Grove	No	No	N/A	0.35	0.12	Proportionate - Neither Advantaged nor Disadvantaged
7	74	Road Construction	Observation Drive Extended (A-19) between Little Seneca Parkway and Shawnee Lane	Clarksburg	No	No	N/A	0.00	-0.31	Proportionate - Neither Advantaged nor Disadvantaged
8	79	Road Construction	Midcounty Highway (M-83) from Ridge Road to Montgomery Village Avenue	Montgomery Village	No	No	N/A	0.00	0.16	Proportionate - Neither Advantaged nor Disadvantaged

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2023 Category Ranking	2021 Overall Ranking	Category	Project	Primary Master Plan	Equity Focus Areas	High Injury Network	BiPPA Score	EFA Score	CEI	CEI Description
1	3	Road Improvements	Georgia Ave Improvement Design - Montgomery Hills	Forest Glen/Montgomery Hills	No	No	12.6	0.00	0.85	Proportionate - Neither Advantaged nor Disadvantaged
2	63	Road Improvements	Burtonsville Road (MD198)	Burtonsville Crossroads	No	No	2.6	0.01	-0.01	Proportionate - Neither Advantaged nor Disadvantaged
3	N/A	Road Improvements	Colesville Road: removal of dynamic lane operation	2022 SSDAC	No	No	35.8	0.55	0.30	Proportionate - Neither Advantaged nor Disadvantaged
4	69	Road Improvements	Redesign of River Rd with median	Westbard	No	No	3.2	0.00	3.76	Highly Disproportionate - Advantaged
5	71	Road Improvements	Reconfigure E-W Hwy, Montgomery Ln Old Georgetown Rd and Woodmont Ave into two-way street systems. Alternatively, keep one-way pair but implement a road diet to accommodate bicycle facilities and wider sidewalks.	Bethesda Downtown Plan	No	Yes	30.4	0.00	1.89	Slightly Disproportionate - Advantaged
6	100	Road Improvements	Crabbs Branch Way Road Diet	Shady Grove Minor MP	No	No	13.0	0.01	-0.15	Proportionate - Neither Advantaged nor Disadvantaged

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2023 Category Ranking	2021 Overall Ranking	Category	Project	Primary Master Plan	Equity Focus Areas	High Injury Network	BiPPA Score	EFA Score	CEI	CEI Description
7	47	Road improvements	Expand the consideration and application of Road Diets/Open Streets/Multimodal Access Improvements on County roads (including Park roads)	Multiple	Yes	Yes	N/A	N/A	N/A	N/A
8	31	Road Improvements	Redesign Wisconsin Avenue as an urban boulevard	Bethesda Downtown Plan	No	Yes	29.5	0.00	1.91	Slightly Disproportionate - Advantaged
9	N/A	Road Improvements	Road Diet Study for Briggs Chaney Rd. (Old Columbia Pike to ICC)	Fairland and Briggs Chaney	Yes	Yes	18.9	0.81	-1.97	Slightly Disproportionate - Disadvantaged
10	98	Road Improvements	Veirs Mill Road - Complete Street	Veirs Mill Corridor MP	Yes	Yes	14.9	0.60	-1.11	Slightly Disproportionate - Disadvantaged
11	N/A	Road Improvements	Feasibility Study for Roundabouts on Briggs Chaney Road	Fairland and Briggs Chaney	Yes	No	13.5	0.32	-0.43	Proportionate - Neither Advantaged nor Disadvantaged
12	N/A	Road Improvements	Enhanced Crossing for Briggs Chaney Rd. / US 29 Bridge	Fairland and Briggs Chaney	Yes	No	12.0	0.17	-0.81	Proportionate - Neither Advantaged nor Disadvantaged
13	32	Road Improvements	Middlebrook Road	MARC Rail Communities	Yes	Yes	5.3	0.17	-2.56	Moderately Disproportionate - Disadvantaged
14	N/A	Road Improvements	Road Diet Study for Fairland Rd. (Old Columbia Pike to Briggs Chaney Rd.)	Fairland and Briggs Chaney	Yes	Yes	6.7	0.12	-0.53	Proportionate - Neither Advantaged nor Disadvantaged

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2023 Category Ranking	2021 Overall Ranking	Category	Project	Primary Master Plan	Equity Focus Areas	High Injury Network	BiPPA Score	EFA Score	CEI	CEI Description
15	N/A	Road Improvements	Road Diet Study for East Randolph Road (Old Columbia Pike to Cherry Hill Rd.)	Fairland and Briggs Chaney	Yes	Yes	3.5	0.94	-0.48	Proportionate - Neither Advantaged nor Disadvantaged
16	92	Road Improvements	Norbeck Road (MD 28)	Kensington/ Wheaton	No	No	4.2	0.03	0.57	Proportionate - Neither Advantaged nor Disadvantaged
17	N/A	Road Improvements	Road Diet Study for Old Columbia Pike (Tech Rd. to Briggs Chaney Rd.)	Fairland and Briggs Chaney	Yes	Yes	2.9	0.62	-0.80	Proportionate - Neither Advantaged nor Disadvantaged
18	34	Road improvements	MD 355 Improvements - Milestone Manor Road to Little Seneca Parkway	Clarksburg	No	No	2.7	0.00	0.65	Proportionate - Neither Advantaged nor Disadvantaged
19	28	Road Improvements	I-270 Widening to 6 lanes from MD 121 to the County Line. Widen to 8 lanes from Little Seneca Creek to MD 121. Could be replaced by Phase 1B of Managed Lanes project (City of Frederick to I-370)	Clarksburg	No	No	2.4	0.00	0.40	Proportionate - Neither Advantaged nor Disadvantaged
20	26	Road Improvements	I-495 (Capital Beltway) HOV between the American Legion Bridge and the I-270 Western Spur	Capital Beltway HOV Lane Project and Interchange at the Intersection of Randolph Road and Veirs Mill Road	No	No	1.0	0.03	2.74	Moderately Disproportionate - Advantaged

Attachment A: 2023 Transportation CIP Priorities by Category

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2023 Category Ranking	2021 Overall Ranking	Category	Project	Primary Master Plan	Equity Focus Areas	High Injury Network	BiPPA Score	EFA Score	CEI	CEI Description
1	N/A	Shared Street	Newell Street Shared Street between East-West Highway and Kennett Street	2022 SSDAC	Yes	No	37.7	0.68	0.65	Proportionate - Neither Advantaged nor Disadvantaged
2	N/A	Shared Street	Ellsworth Drive Shared Street between Fenton Street and Veterans Plaza	2022 SSDAC	Yes	No	37.7	0.68	-0.95	Proportionate - Neither Advantaged nor Disadvantaged
3	N/A	Shared Street	Bonifant Shared Street between Dixon Avenue and Georgia Avenue	2022 SSDAC	Yes	No	37.7	0.68	0.35	Proportionate - Neither Advantaged nor Disadvantaged
4	75	Shared Street	Redesign Norfolk Ave as a shared street	Bethesda Downtown Plan	No	No	30.4	0.00	0.30	Proportionate - Neither Advantaged nor Disadvantaged
1	1	Transit	MD 355 BRT Central	Multiple	Yes	Yes	N/A	0.34	-1.65	Slightly Disproportionate - Disadvantaged
2	2	Transit	Veirs Mill Road Bus Rapid Transit	Veirs Mill Corridor MP	Yes	Yes	N/A	0.59	-1.12	Slightly Disproportionate - Disadvantaged
3	N/A	Transit	US 29 BRT Phase 2 from Tech Road to Downtown Silver Spring	2022 SSDAC	Yes	No	N/A	0.55	0.30	Proportionate - Neither Advantaged nor Disadvantaged
4	21	Transit	New Hampshire Avenue BRT	Multiple	Yes	Yes	N/A	0.26	-1.20	Slightly Disproportionate - Disadvantaged
5	20	Transit	I-270 Transit Corridor Connectors	Multiple	Yes	Yes	N/A	0.13	-0.52	Proportionate - Neither Advantaged nor Disadvantaged

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2023 Category Ranking	2021 Overall Ranking	Category	Project	Primary Master Plan	Equity Focus Areas	High Injury Network	BiPPA Score	EFA Score	CEI	CEI Description
6	8	Transit	White Flint Metro North Entrance	White Flint	No	Yes	N/A	0.01	0.07	Proportionate - Neither Advantaged nor Disadvantaged
7	45	Transit	Expand MARC-Brunswick Line capacity and service	White Flint	Yes	No	N/A	N/A	N/A	N/A
8	58	Transit	Georgia Avenue South BRT	Multiple	Yes	Yes	N/A	0.31	-0.27	Proportionate - Neither Advantaged nor Disadvantaged
9	62	Transit	University Boulevard BRT	Multiple	Yes	Yes	N/A	0.19	0.00	Proportionate - Neither Advantaged nor Disadvantaged
10	41	Transit	Georgia Avenue North BRT	Multiple	Yes	Yes	N/A	0.41	0.00	Proportionate - Neither Advantaged nor Disadvantaged
11	45	Transit	White Flint MARC Rail Station and Service	White Flint	Yes	No	N/A	0.01	2.53	Moderately Disproportionate - Advantaged
12	64	Transit	Randolph Road BRT	Multiple	Yes	Yes	N/A	0.62	-0.87	Proportionate - Neither Advantaged nor Disadvantaged
13	1	Transit	MD 355 BRT North	Multiple	Yes	Yes	N/A	0.03	0.07	Proportionate - Neither Advantaged nor Disadvantaged
14	99	Transit	Shady Grove MARC Station	Shady Grove Minor MP	Yes	Yes	N/A	0.39	0.12	Proportionate - Neither Advantaged nor Disadvantaged

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2023 Category Ranking	2021 Overall Ranking	Category	Project	Primary Master Plan	Equity Focus Areas	High Injury Network	BiPPA Score	EFA Score	CEI	CEI Description
15	80	Transit	Extend regional bus service to connect to Prince George's County	Fairland	Yes	No	N/A	N/A	N/A	N/A
16	78	Transit	Circulator Bus Route - Downtown Bethesda	Bethesda Downtown Plan	No	Yes	N/A	0.00	0.20	Proportionate - Neither Advantaged nor Disadvantaged
17	1	Transit	MD 355 BRT South	Multiple	Yes	Yes	N/A	0.00	0.31	Proportionate - Neither Advantaged nor Disadvantaged
18	65	Transit	North Bethesda Transitway	Rock Spring	No	No	N/A	0.07	1.46	Slightly Disproportionate - Advantaged

Abbreviations:

- BiPPA Score Prioritization tool developed for the Pedestrian Master Plan to prioritize pedestrian priorities. Used for pedestrian and bicycle projects.
- EFA Score Equity Focus Area as developed by Montgomery Planning.
- CEI Community Equity Index as developed by Montgomery Planning.

Attachment C: Excerpt from Predictive Safety Analysis

APPENDIX I. WHERE COUNTERMEASURES ARE APPLIED

Countermeasure Name/Context	Where Countermeasures are Applied
Automated Speed Enforcement	Streets with more than four lanes in Urban and Suburban areas
Centerline Rumble Strip	Roads in Country areas with two lanes
Convert All-Way Stop Control to Mini-Roundabout	All-way-stop-controlled intersections, with speed limits less than 35 mph, daily vehicle volumes < 10,000, and no more than 2 lanes on any approach
Convert Side-Street Stop Control to All-Way Stop	Side-street stop-controlled intersections, with speed limits less than 35 mph, daily vehicle volumes < 10,000, and no more than 2 lanes on any approach
High Visibility Crosswalks - Signalized Intersections where some Crosswalks are Conventional or Not Marked	Signalized intersections with fewer than 2 high-visibility crosswalks
High Visibility Crosswalks - Signalized Intersections with No Crosswalks	Signalized intersections with no marked crosswalks. Intersections with no nearby sidewalks are excluded unless there is a nearby bus stop
High Visibility Crosswalks - Signalized Intersections with Standard Crosswalks	Signalized intersections with standard marked crosswalks, but not high-visibility crosswalks
High Visibility Crosswalks - Unsignalized Intersections with Standard Crosswalks	Unsignalized intersections with standard marked crosswalks, but not high-visibility crosswalks. Intersections without marked crosswalks across the major street are excluded unless there is a nearby bus stop
Increase All Red Clearance Time - Other Street Types	Signalized intersections on street types not listed above
Increase All Red Clearance Time- Boulevards, Downtown Boulevards, Town Center Boulevards, Major Highways	Signalized intersections on Boulevards, Downtown Boulevards, Town Center Boulevards, and Major Highways
Install a Traffic Signal	Stop controlled intersections with more than 20,000 daily vehicles, more than 4 lanes on the major street approach, and located in an urban area or along a transit corridor
Introduce Fully Protected Left Turns	Signalized intersections in urban and suburban areas with a left-turn lane on the major approach and a current protected/permissive phase
Introduce Protected/Permitted Signal Phase	Signalized intersections in urban areas with 4 legs and a left-turn lane on the major street approach
Lighting at Signalized Intersections	Signalized intersections with less than 2 lights within 75 feet of the center of the intersection

Attachment C: Excerpt from Predictive Safety Analysis

Countermeasure Name/Context	Where Countermeasures are Applied
Lighting at Unsignalized Intersections	Unsignalized intersections with less than 2 lights within 75 feet of the center of the intersection
LPI on Downtown Boulevards	Signalized intersections on Downtown Boulevards where a crosswalk is present across the Downtown Boulevard
LPI on Town Center Boulevards, Boulevards, and Major Highways	Signalized intersections on Town Center Boulevards, Boulevards, and Major Highways
Mid-Block High-Visibility Crosswalks	Segments with no marked crosswalk with 2 lanes, speed limits of 25 mph or less, and longer than 400 feet. Segments without sidewalks are excluded unless there is a nearby bus stop
Mid-Block Pedestrian Hybrid Beacon	Segments with existing mid-block marked crosswalks that have 4 or fewer lanes, speed limits of 35 mph or less, and vehicle volumes greater than 3,000 per day
Mid-Block Raised Crossing	Segments with no marked crosswalk with 2 lanes and speed limits of 30 mph
Reduce Speeds by 5 mph	Roads in Country areas with speed limits over 25 mph
Restricted to Left-In Access	Stop controlled intersections with more than 20,000 daily vehicles, more than 4 lanes on the major street approach, and located in a suburban area
Speed Humps	Segments in urban and suburban areas with no marked crosswalk, 2 lanes, speeds of 25 mph or less, and fewer than 15,000 daily vehicles

Attachment C: Excerpt from Predictive Safety Analysis

APPENDIX J. CANDIDATE LOCATIONS FOR SYSTEMIC COUNTERMEASURE IMPLEMENTATION

The following pages include the top 50 ranked candidate locations for each countermeasure and its associated contexts. Based on the SPF analysis and the data available, these locations have been identified as candidates for systemic implementation of the selected countermeasures. However, given the countywide nature of this analysis, individual site reviews are needed to confirm that the identified locations are context-appropriate for the selected countermeasures.

Attachment C: Excerpt from Predictive Safety Analysis

HIGH VISIBILITY CROSSWALK: SIGNALIZED INTERSECTIONS WITH SOME HIGH-VISIBILITY CROSSWALKS

Location	Location ID	Jurisdiction	State Road	EEA
16TH ST & ELKHART ST & 2ND AVE	X20577	County	X	
16TH ST & SPRING ST	X20784	County	X	X
BALTIMORE RD & 1ST ST & NORBECK RD	X12167	Rockville	X	
BRADLEY BLVD & ARLINGTON RD	X15099	County	X	
BROADBIRCH DR & CALVERTON BLVD & CHERRY HILL RD	X24753	County		
COLESVILLE RD & FENTON ST	X21234	County	X	X
COLESVILLE RD & SPRING ST	X21285	County	X	X
COLESVILLE RD & ST ANDREWS WAY & SLIGO CREEK PKWY	X21676	County	X	X
COLUMBIA PIKE & BLACKBURN RD	X25226	County	X	
DEMOCRACY BLVD & FERNWOOD RD	X12248	County		
EAST WEST HWY & CONNECTICUT AVE	X17057	County	X	
EAST WEST HWY & SUNDALE DR & WASHINGTON AVE	X20148	County	X	X
FREDERICK AVE & HUNGERFORD DR	X11084	Rockville	X	X
GEORGIA AVE & ARCOLA AVE	X19517	County	X	X
GEORGIA AVE & HEWITT AVE	X17811	County	X	X
GEORGIA AVE & ROSSMOOR BLVD	X17091	County	X	
GEORGIA AVE & SEMINARY PL	X20537	County	X	
GERMANTOWN RD & AIRCRAFT DR	X02477	County	X	X
GERMANTOWN RD & CRYSTAL ROCK DR	X02358	County	X	X
HUNGERFORD DR & MANNAKEE ST	X11092	Rockville	X	X
INDIANOLA DR & CRABBS BRANCH WAY	X10811	County		
MARINELLI RD & EXECUTIVE BLVD	X13631	County		
MARYLAND AVE & JEFFERSON ST	X11243	Rockville	X	X
MARYLAND AVE & MIDDLE LN	X11246	Rockville		X
MIDDLEBROOK RD & GERMANTOWN RD	X02052	County	X	
MIDDLEBROOK RD & WARING STATION RD	X02887	County		X
MONTGOMERY VILLAGE AVE & CLUB HOUSE RD	X06647	County		
MONTGOMERY VILLAGE AVE & LAKE SHORE DR & WALKERS CHOICE RD	X06797	County		
MONTGOMERY VILLAGE AVE & PLEASANT RIDGE DR & WIGHTMAN RD	X07662	County		
NEW HAMPSHIRE AVE & LOCKWOOD DR	X23608	County	X	
NEW HAMPSHIRE AVE & OAKVIEW DR	X24208	County	X	X
OLD COLUMBIA PIKE & SANDY SPRING RD	X25257	County	X	
OLD GEORGETOWN RD & AUBURN AVE	X14889	County	X	
PARK RD & STONESTREET AVE	X11490	Rockville		
PINEY BRANCH RD & CARROLL AVE	X23600	County	X	X
RANDOLPH RD & GLENMONT CIR	X19977	County		X
ROCKVILLE PIKE	X15275	County	X	
ROCKVILLE PIKE & CALIFORNIA CIR & BOU AVE	X13404	County	X	
ROCKVILLE PIKE & RICHARD MONTGOMERY DR & DODGE ST	X11662	Rockville	X	X
ROCKVILLE PIKE & SECURITY LN	X14197	County	X	
ROCKVILLE PIKE & WOOTTON PKWY & 1ST ST	X11989	Rockville	X	X
SLIGO CREEK PKWY & PINEY BRANCH RD	X22592	County	X	
UNIVERSITY BLVD & DENNIS AVE	X21668	County	X	
UNIVERSITY BLVD & SLIGO CREEK PKWY	X21057	County	X	
VEIRS MILL RD & CLARIDGE RD	X17976	County	X	
VEIRS MILL RD & FERRARA AVE	X17084	County	X	X
VEIRS MILL RD & ROBINDALE DR	X15482	County	X	X
WAYNE AVE & CEDAR ST	X21545	County		
WISCONSIN AVE & WAVERLY ST & ELM ST	X15604	County	X	
WOODMONT AVE & BETHESDA AVE	X15437	County		

Attachment C: Excerpt from Predictive Safety Analysis

HIGH VISIBILITY CROSSWALK: SIGNALIZED INTERSECTIONS WITH ONLY STANDARD CROSSWALKS

Location	Location ID	Jurisdiction	State Road	EEA
CENTURY BLVD & CRYSTAL ROCK DR	X02280	County		
CHESTNUT ST & DIAMOND AVE & MUDDY BRANCH RD	X06515	Gaithersburg	X	X
CLOPPER RD & FIRSTFIELD RD	X05167	Gaithersburg	X	X
CONNECTICUT AVE & PLYERS MILL RD	X17175	County	X	
EAST WEST HWY & WAVERLY ST	X15669	County	X	
ELLSWORTH DR & FENTON ST	X21323	County		X
FATHER HURLEY BLVD & WISTERIA DR	X01498	County		
FREDERICK AVE & PERRY PKWY & LAKEFOREST BLVD	X06192	Gaithersburg	X	X
FREDERICK AVE & WESTLAND DR	X08409	Gaithersburg	X	X
FREDERICK RD & GERMANTOWN RD	X03692	County	X	
FREDERICK RD & KING FARM BLVD & SHADY GROVE METRO W RD	X09707	Rockville	X	X
FREDERICK RD & MIDDLEBROOK RD	X04073	County	X	
FREDERICK RD & REDLAND RD & REDLAND BLVD	X09984	Rockville	X	
GEORGIA AVE & ASPEN HILL RD	X17262	County	X	
GEORGIA AVE & BEL PRE RD	X16842	County	X	X
GEORGIA AVE & CONNECTICUT AVE	X16983	County	X	
GEORGIA AVE & GLENALLAN AVE	X19275	County	X	X
GEORGIA AVE & JUDSON RD & LAYHILL RD	X19619	County	X	X
GEORGIA AVE & POSTGATE TER & HEATHFIELD RD	X16841	County	X	
GEORGIA AVE & RANDOLPH RD	X19744	County	X	X
HUNGERFORD DR & BEALL AVE	X11290	Rockville	X	X
HUNGERFORD DR & WASHINGTON ST & A ST	X11086	Rockville	X	X
LAYHILL RD & GLENALLAN AVE	X19716	County	X	X
MIDCOUNTY HWY & MONTGOMERY VILLAGE AVE	X06778	County	X	X
MIDDLE LN & WASHINGTON ST	X11118	Rockville		X
MONROE ST & JEFFERSON ST	X11338	Rockville	X	X
MONTGOMERY VILLAGE AVE & RUSSELL AVE & STATION8 DR	X06161	Gaithersburg	X	X
MONTROSE PARK RIDE & TOWNE RD & MONTROSE RD	X13484	County		
NEW HAMPSHIRE AVE & NORTHAMPTON DR	X24112	County	X	
NEW HAMPSHIRE AVE & POWDER MILL RD	X24224	County	X	
PINEY BRANCH RD & ARLISS ST	X22971	County	X	X
PINEY BRANCH RD & BARRON ST	X23226	County	X	X
PINEY BRANCH RD & FLOWER AVE	X22767	County	X	X
PINEY BRANCH RD & GREENWOOD AVE	X22882	County	X	X
RANDOLPH RD & VEIRS MILL RD	X16598	County	X	X
REEDIE DR & FERN ST	X19803	County		X
ROCKVILLE PIKE & JONES BRIDGE RD	X15290	County	X	
ROCKVILLE PIKE & TUCKERMAN LN	X14550	County	X	
ROLLINS AVE & JEFFERSON ST	X12839	Rockville		
SHADY GROVE RD & FALLSGROVE BLVD & MEDICAL CENTER WAY	X07356	County		
SOMERVILLE DR & REDLAND RD	X10120	County		
TWINBROOK PKWY & CHAPMAN AVE	X13419	Rockville		
TWINBROOK PKWY & FISHERS LN	X13672	County		X
TWINBROOK PKWY & PARKLAWN DR & WICOMICO AVE	X13670	County		X
VEIRS MILL RD & GAYNOR RD & PARKLAND DR	X15745	County	X	X
VEIRS MILL RD & GRIDLEY RD & SHOP CTR CUT THRU	X16448	County	X	X
VEIRS MILL RD & TWINBROOK PKWY	X14065	County	X	X
WASHINGTON ST & BEALL AVE	X11113	Rockville		X
WAVERLY ST & MONTGOMERY AVE	X15690	County	X	
WOODMONT AVE & BATTERY LN	X15264	County		

Attachment C: Excerpt from Predictive Safety Analysis

HIGH VISIBILITY CROSSWALK: UNSIGNALIZED INTERSECTIONS WITH ONLY STANDARD CROSSWALKS

Location	Location ID	Jurisdiction	State Road	EEA
ADRIAN ST & PARKLAND DR	X15812	County		X
BLUERIDGE AVE & GRANDVIEW AVE	X19422	County		X
COLESVILLE RD & RAMSEY AVE	X21115	County	X	X
CONNECTICUT AVE & BALTIMORE ST	X17155	County	X	
CONNECTICUT AVE & EVERTON ST	X17510	County	X	X
CORDELL AVE & WILSON LN	X14991	County	X	
ELKIN ST & HICKERSON DR	X19740	County		X
ELMCROFT BLVD & KING FARM BLVD	X09619	Rockville		
FERN ST & PRICE AVE	X19801	County		X
FIDLER LN & RAMSEY AVE	X21082	County		X
FREDERICK AVE & DE SELLMUM AVE	X07318	Gaithersburg	X	X
FREDERICK AVE & FULKS CORNER AVE & CEDAR AVE	X07217	Gaithersburg	X	X
FREDERICK AVE & WALKER AVE	X06841	Gaithersburg	X	X
FREDERICK AVE & WESTLAND DR	X08223	Gaithersburg	X	X
FREDERICK RD & APPLIEDOWRE WAY	X03943	County	X	
FREDERICK RD & COLLINS DR & NEELSVILLE CHURCH RD	X03598	County	X	
FREDERICK RD & OXBRIDGE DR	X03775	County	X	
GEORGIA AVE & DENLEY RD	X19122	County	X	X
GEORGIA AVE & HICKERSON DR	X19534	County	X	X
GEORGIA AVE & SHERATON ST	X19701	County	X	X
GEORGIA AVE & WEISMAN RD	X19623	County	X	X
GILBERT PL & BARRON ST	X23229	County		X
GIST AVE & FENTON ST	X21417	County		
GREAT SENECA HWY & GREY EAGLE CT	X02240	County	X	X
GREAT SENECA HWY & GROTTA LN	X02041	County	X	
HALPINE RD & ARDENNES AVE	X13506	Rockville		X
MARINELLI RD & LANDSDOWN ST	X14042	County		
MONROE ST & MONROE PL	X11357	Rockville		X
NORMANDY CROSSING DR & HOMECREST RD & LONGMEAD CROSSING DR	X19335	County		
OLD GEORGETOWN RD & DEL RAY AVE	X14955	County	X	
OLD GEORGETOWN RD & FAIRMONT AVE	X15165	County	X	
OLD GEORGETOWN RD & MOORLAND LN	X15257	County	X	
PARK AVE & BROOKES AVE	X07333	Gaithersburg		X
PINEY BRANCH RD & MANCHESTER RD	X22649	County	X	
RANDOLPH RD & ATHERTON DR	X17099	County		X
RANDOLPH RD & BUSHEY DR	X16972	County		X
ROCKVILLE PIKE & MT VERNON PL	X11820	Rockville	X	
ROEDER RD & FENTON ST	X21286	County		X
RUSSELL AVE & BROOKES AVE	X07189	Gaithersburg		X
RUSSELL AVE & WALKER AVE	X07108	Gaithersburg		X
SLIGO CREEK PKWY & HILLTOP RD & MAPLE AVE	X22759	Takoma Park		
TRAVIS AVE & WATKINS MILL RD	X05793	Gaithersburg		X
UNIVERSITY BLVD & DEARBORN AVE & MOSS AVE	X22944	County	X	
UNIVERSITY BLVD & GILBERT ST	X23374	County	X	X
UNIVERSITY BLVD & SEEK LN	X23435	County	X	X
VALLEYWOOD DR & ANDREW ST	X18088	County		X
VEIRS MILL RD & GRIDLEY RD	X16422	County	X	X
WILLOW LN & 46TH ST	X15845	County		
WISCONSIN AVE & MAPLE AVE	X15361	County	X	
WISCONSIN AVE & MILLER AVE	X15691	County	X	

Attachment C: Excerpt from Predictive Safety Analysis

HIGH VISIBILITY CROSSWALK: SIGNALIZED INTERSECTIONS WITH NO CROSSWALKS

Location	Location ID	Jurisdiction	State Road	EEA
ATTEBORO RD & EUBIE BLAKE WAY & NORWOOD RD	X21880	County		
BONIFANT RD & NOTLEY RD	X22030	County		
BRADLEY BLVD & BRADMOOR DR & HUNTINGTON PKWY	X13454	County	X	
BRADLEY BLVD & BURDETTE RD	X11930	County	X	
BRADLEY BLVD & FERNWOOD RD	X12239	County	X	
COLUMBIA PIKE & STEWART LN & MILESTONE DR	X23787	County	X	X
DEER PARK DR & RAILROAD ST	X08801	Washington Grove		
DEMOCRACY BLVD & FALLS RD & GLEN RD	X06584	County	X	
EDNOR RD & NORWOOD RD & LAYHILL RD	X21207	County	X	
EMORY GROVE RD & GOSHEN RD	X07638	County		
FALLS RD & BELLS MILL RD	X07369	County	X	
FALLS RD & GLEN RD	X07677	County	X	
FREDERICK RD & CLARKSBURG RD	X01195	County	X	
GEORGIA AVE & GOLD MINE RD	X18859	County	X	
GERMANTOWN RD & SPRING MEADOWS DR & DARNESTOWN RD	X00498	County	X	
GOSHEN RD & VILLAGE AVE	X08229	County		
KINGS VALLEY RD & RIDGE RD	X04801	County	X	
MARWOOD HILL DR & RIVER RD & PINEY MEETINGHOUSE RD	X04516	County	X	
NEW HAMPSHIRE AVE & ASHTON RD & OLNEY SANDY SPRING RD	X22199	County	X	
NEWBRIDGE DR & DEMOCRACY BLVD	X08366	County		
OLD COLUMBIA PIKE & COLUMBIA PIKE	X23851	County	X	X
OLNEY SANDY SPRING RD & NORWOOD RD	X21117	County	X	
RANDOLPH RD & LINDELL ST & DENLEY RD	X18574	County		X
SERVICE RD & NORBECK RD & MUNCASTER MILL RD	X16799	County	X	
SEVEN LOCKS RD & ORACLE PL & BELLS MILL RD	X10433	County		
STATION10 DR & RIVER RD	X10117	County	X	
STATION26 DR & DEMOCRACY BLVD	X12053	County		
SWEEPSTAKES RD & WOODFIELD RD	X06750	County	X	
UNIVERSITY BLVD & WHITESTONE RD	X22585	County	X	
VEIRS MILL RD & MONTERREY DR & NORRIS DR	X18489	County	X	
WARFIELD RD & WOODFIELD RD	X11124	County	X	
WOODFIELD RD & BRINK RD	X09696	County	X	
WOODFIELD RD & HAWKINS CREAMERY RD	X06600	County	X	

Attachment C: Excerpt from Predictive Safety Analysis

LIGHTING: SIGNALIZED INTERSECTIONS

Location	Location ID	Jurisdiction	State Road	EEA
2ND AVE & FENWICK LN	X20956	County		X
ASBURY DR & LOST KNIFE RD & ODENDHAL AVE	X07089	Gaithersburg		X
BALTIMORE RD & 1ST ST & NORBECK RD	X12167	Rockville	X	
BOU AVE & CHAPMAN AVE	X13561	County		
CENTURY BLVD & CRYSTAL ROCK DR	X02280	County		
CHESTNUT ST & DIAMOND AVE & MUDDY BRANCH RD	X06515	Gaithersburg	X	X
CLOPPER RD & METROPOLITAN GROVE RD & TWELVE OAKS DR	X04889	Gaithersburg	X	X
CONNECTICUT AVE & BEL PRE RD	X17855	County		X
CONTOUR RD & ODEND HAL AVE	X07251	Gaithersburg		X
EAST WEST HWY & SUNDALE DR & WASHINGTON AVE	X20148	County	X	X
FATHER HURLEY BLVD & WATERS LANDING DR	X01767	County		
FATHER HURLEY BLVD & WISTERIA DR	X01498	County		
FENTON ST & PHILADELPHIA AVE & BURLINGTON AVE	X21446	County	X	X
FLOWER AVE & CARROLL AVE	X23132	Takoma Park	X	
FREDERICK RD & SHAKESPEARE BLVD	X03475	County	X	
GEORGIA AVE & OLNEY LAYTONSVILLE RD & OLNEY SANDY SPRING RD	X18182	County	X	
GRANT AVE & CARROLL AVE & ETHAN ALLEN AVE	X22575	Takoma Park	X	
GREAT SENECA HWY & QUINCE ORCHARD RD	X04135	Gaithersburg	X	
GREAT SENECA HWY & WISTERIA DR	X02330	County	X	X
JEFFERSON ST & HALPINE RD	X12786	Rockville		
LAYHILL RD & BONIFANT RD & BEL PRE RD	X20233	County	X	
MIDCOUNTY HWY & SAYBROOKE OAKS BLVD & WOODFIELD RD	X09207	Gaithersburg	X	
MIDCOUNTY HWY & WASHINGTON GROVE LN	X09691	County		X
MIDDLEBROOK RD & SWEETGUM CIR & FATHER HURLEY BLVD	X01667	County		
MONROE ST & FLEET ST	X11298	Rockville		X
MONTGOMERY VILLAGE AVE & CENTERWAY RD	X06641	County		
MONTGOMERY VILLAGE AVE & CLUB HOUSE RD	X06647	County		
MONTGOMERY VILLAGE AVE & PLEASANT RIDGE DR & WIGHTMAN RD	X07662	County		
MONTROSE PARK RIDE & TOWNE RD & MONTROSE RD	X13484	County		
MONTROSE PKWY & TOWNE RD	X13457	County		
MONTROSE RD & JEFFERSON ST	X12862	County		
ODENDHAL AVE & GOSHEN RD	X07602	Gaithersburg		X
PARK RD & STONESTREET AVE	X11490	Rockville		
PARKLAWN DR & PARKLAWN DR ACCESS DR	X14502	County		X
PHILADELPHIA AVE & MAPLE AVE	X22331	Takoma Park	X	
RANDOLPH RD & LAUDERDALE DR & PARKLAWN DR	X14644	County		X
RANDOLPH RD & PARKLAWN DR	X14435	County		X
RICHARD MONTGOMERY DR & FLEET ST	X11616	Rockville		X
ROCK SPRING DR & MARRIOTT DR & FERNWOOD RD	X12123	County		
ROCK SPRING DR & ROCKLEDGE DR	X12439	County		
ROLLINS AVE & JEFFERSON ST	X12839	Rockville		
RUSSELL AVE & ODENDHAL AVE	X06611	Gaithersburg		X
SLIGO CREEK PKWY & WAYNE AVE	X22310	County		X
STATION2 DR & CARROLL AVE & PHILADELPHIA AVE	X22504	Takoma Park	X	
TWINBROOK PKWY & CHAPMAN AVE	X13419	Rockville		
VEIRS MILL RD & 1ST ST	X12059	Rockville	X	X
VEIRS MILL RD & ROBINDALE DR	X15482	County	X	X
VEIRS MILL RD & TWINBROOK PKWY	X14065	County	X	X
W DIAMOND AVE ACCESS RD & PERRY PKWY & DIAMOND AVE	X06149	Gaithersburg	X	X
WOODFIELD RD & SNOUFFER SCHOOL RD & MUNCASTER MILL RD	X10522	County	X	X

Attachment C: Excerpt from Predictive Safety Analysis

LIGHTING: UNSIGNALIZED INTERSECTIONS

Location	Location ID	Jurisdiction	State Road	EEA
1ST ST & GRANDIN AVE	X12083	Rockville	X	
1ST ST & VEIRS MILL SERV RD RD & GRANDIN AVE	X12074	Rockville		
ADRIAN ST & PARKLAND DR	X15812	County		X
BLAIR MILL RD & EASTERN DR	X21019	County		
BRIGGS CHANEY RD & ROBEY RD	X24969	County		X
CALIFORNIA CIR & JEFFERSON ST	X12861	County		
CAMERON HILL CT	X21060	County		X
CAMERON HILL CT	X21034	County		X
CONTOUR RD & LOST KNIFE RD	X06869	County		X
CORDELL AVE & WILSON LN	X14991	County	X	
DOMER AVE & GREENWOOD AVE	X22909	County		X
EAST WEST HWY & CAREY LN	X20746	County	X	X
EAST WEST HWY & FALKLAND LN	X20873	County	X	
ELKIN ST & BLUERIDGE AVE	X19750	County		X
ELMCROFT BLVD & REDLAND BLVD	X09886	Rockville		
FLOWER AVE & KENNEBEC AVE	X22942	Takoma Park	X	
FOREST PRESERVE DR & TOWN CENTER BLVD & WATKINS MILL RD	X04692	Gaithersburg		X
FREDERICK RD & APPLIEDOWRE WAY	X03943	County	X	
FREDERICK RD & COLLINS DR & NEELSVILLE CHURCH RD	X03598	County	X	
FREDERICK RD & OXBRIDGE DR	X03775	County	X	
FRIENDSHIP BLVD & PARK AVE	X16012	County		
GARLAND AVE & DOMER AVE	X23123	County		X
HAMPDEN LN & ARLINGTON RD	X15128	County		
HUNGERFORD DR & CHOICE HOTELS CIR	X11366	Rockville	X	X
KING JAMES WAY & HARMONY HALL RD & MUDDY BRANCH RD	X06456	County		X
LIVINGSTON ST & FLACK ST	X19350	County		X
MAIN ST & KENTLANDS BLVD	X04031	Gaithersburg		
MARKET ST & KENTLANDS BLVD	X04365	Gaithersburg		
MAYOR LN & SILVER SPRING AVE	X21299	County		X
MINERAL SPRINGS DR & WASHINGTON GROVE LN & FLOWER HILL WAY	X10220	County		X
MONROE ST & MONROE PL	X11357	Rockville		X
NORMANDY CROSSING DR & HOMECREST RD & LONGMEAD CROSSING DR	X19335	County		
PEAR TREE LN & BEL PRE RD	X18003	County		X
PINEY BRANCH RD & GARLAND AVE	X23116	County	X	X
PINEY BRANCH RD & MANCHESTER RD	X22649	County	X	
RANDOLPH RD & PUTNAM RD	X14723	County		X
REXMORE DR & CRYSTAL ROCK DR	X02247	County		
RUSSELL AVE & WALKER AVE	X07108	Gaithersburg		X
SPRING ST & ROEDER RD	X21332	County		X
STEWART LN & APRIL LN	X24037	County		X
THE HILLS PLZ & PARK AVE	X16099	County		
TRAVIS AVE & WATKINS MILL RD	X05793	Gaithersburg		X
TSCHIFFELY SQUARE RD & KENT OAKS WAY	X03413	Gaithersburg		
VALLEYWOOD DR & ANDREW ST	X18088	County		X
VEIRS MILL RD & DODGE ST	X11699	Rockville	X	X
WALTER JOHNSON RD & WISTERIA DR	X01969	County		X
WAYNE AVE & MANCHESTER RD	X22353	County		X
WHITE OAK VISTA DR & STEWART LN	X23960	County		X
WILLOW LN & 46TH ST	X15845	County		
WYETH ST & LAYHILL RD	X19861	County	X	X

Attachment C: Excerpt from Predictive Safety Analysis

MID-BLOCK HIGH-VISIBILITY CROSSWALK

Location	Location ID	Jurisdiction	State Road	EEA
1ST AVE BETWEEN SPRING ST & FENWICK LN	S08915	County		
APPLE RIDGE RD BETWEEN MONTGOMERY VILLAGE AVE & SWALLOW POINT RD	S31736	County		
BOILING BROOK PKWY BETWEEN ROCKING HORSE RD & BOILING BROOK PL	S24786	County		X
BONIFANT ST BETWEEN FENTON ACCESS ST & GEORGIA AVE	S10289	County		X
CAMERON ST BETWEEN FENTON ST & GEORGIA AVE	S12448	County		X
CAMERON ST BETWEEN GEORGIA AVE & RAMSEY AVE	S08851	County		X
CARROLL AVE BETWEEN OSAGE ST & UNIVERSITY BLVD	S12352	County		X
CARROLL AVE BETWEEN STATION2 DR/PHILADELPHIA AVE & PARK AVE	S29317	Takoma Park	X	
CENTURY BLVD BETWEEN TOWN COMMONS DR & MIDDLEBROOK RD	S20281	County		
CONTOUR RD BETWEEN LOST KNIFE CIR & LOST KNIFE RD	S14437	County		X
CONTOUR RD BETWEEN TUNSTALL DR & COPPS HILL DR	S16805	County		X
CRYSTAL ROCK DR AT GERMANTOWN RD	S24183	County		X
DETRICK AVE BETWEEN HOWARD AVE & KNOWLES AVE	S08081	County		
DIXON AVE BETWEEN DISCOVERY PL/WAYNE AVE & BONIFANT ST	S00933	County		X
EDMONSTON DR BETWEEN LEWIS AVE & ROCKVILLE PIKE	S02080	Rockville		
ELLSWORTH DR BETWEEN FENTON ST & GEORGIA AVE	S00439	County		X
ETHAN ALLEN AVE BETWEEN EAST WEST HWY/NEW HAMPSHIRE AVE & ELM AVE	S28520	Takoma Park	X	
FENTON ST BETWEEN COLESVILLE RD & CAMERON ST	S13360	County		X
FENTON ST BETWEEN SILVER SPRING AVE & SLIGO AVE	S29157	County		
FENTON ST BETWEEN THAYER AVE & SILVER SPRING AVE	S31133	County		
FERRARA DR AT FERRARA AVE	S05371	County		X
FLOWER AVE BETWEEN PINEY BRANCH RD & DOMER AVE	S30377	Takoma Park	X	X
GILBERT PL BETWEEN GILBERT ST & BARRON ST	S07311	County		X
GREENWOOD AVE BETWEEN PINEY BRANCH RD & DOMER AVE	S10848	County		X
IVY LEAGUE LN AT HUNGERFORD DR	S19144	Rockville		X
JEFFERSON ST BETWEEN HALPINE RD & ROLLINS AVE	S03214	Rockville		
LOST KNIFE CIR	S13888	County		X
LYTTONSVILLE RD BETWEEN LYTTONSVILLE PL & ROSS RD	S30169	County		X
MAPLE AVE BETWEEN HILLTOP RD/SLIGO CREEK PKWY & LINCOLN AVE	S30984	Takoma Park		
MAPLEWOOD AVE BETWEEN FLOWER AVE & EDINBURGH LN/MAPLE AVE	S32254	Takoma Park		
MEEM AVE BETWEEN WATER ST/DIAMOND AVE & CHESTNUT ST	S18577	Gaithersburg		X
METROPOLITAN AVE BETWEEN ST PAUL ST & CONCORD ST/PLYERS MILL RD	S30422	County	X	
PARAMOUNT PARK DR BETWEEN FREDERICK AVE & SPECTRUM BLVD	S22775	Gaithersburg		X
PEAR TREE CT	S01264	County		X
PHILADELPHIA AVE BETWEEN MAPLE AVE & CEDAR AVE	S32419	Takoma Park	X	
RAMSEY AVE BETWEEN WAYNE AVE & BONIFANT ST	S09876	County		X
ROEDER RD BETWEEN SPRING ST & FENTON ST	S10935	County		X
ROLLINS AVE BETWEEN ROCKVILLE PIKE/TWINBROOK PKWY & STATION23 DR	S31059	Rockville		
ROLLINS AVE BETWEEN STATION23 DR & JEFFERSON ST	S31058	Rockville		
RUSSELL AVE AT ODEND HAL AVE	S00099	Gaithersburg		X
SEMINARY RD BETWEEN STATION19 DR & LINDEN LN/2ND AVE	S30362	County		
SERVICE ROAD A RD BETWEEN FREDERICK AVE & DIAMOND AVE	S29367	Gaithersburg	X	X
SHOP CTR CUT THRU BETWEEN COLIE DR & GRIDLEY RD/VEIRS MILL RD	S26942	County		X
SLIGO CREEK PKWY BETWEEN SCHUYLER RD & WAYNE AVE/WAYNE AVE	S28890	County		X
TEAGARDEN CIR	S00774	County		X
THAYER AVE BETWEEN FENTON ST & MAYOR LN	S29798	County		
VEIRS MILL SERVICE RD BETWEEN SAMPSON RD & RANDOLPH RD	S02867	County		X
WALKER AVE BETWEEN RUSSELL AVE & FREDERICK AVE	S23798	Gaithersburg		X
WAYNE AVE BETWEEN MANCHESTER PL & MANCHESTER RD	S28428	County		X
WILLARD AVE BETWEEN SHOEMAKER FARM LN & PARK AVE	S30740	County		

Attachment C: Excerpt from Predictive Safety Analysis

MID-BLOCK RAISED CROSSING

Location	Location ID	Jurisdiction	State Road	EEA
ARCOLA AVE BETWEEN HOYT ST/APARTMENT CUT THRU & UNIVERSITY BLVD	S31415	County		X
ARCOLA AVE BETWEEN KENBROOK DR/APARTMENT CUT THRU & HOYT ST	S30632	County		X
ARCOLA AVE BETWEEN KERSEY RD & LAMBERTON DR	S27899	County		X
ARCOLA AVE BETWEEN LAMBERTON DR & WATERMILL LN	S31026	County		X
ARLISS ST BETWEEN WALDEN RD/GARLAND AVE & FLOWER AVE	S11503	County		X
ASPEN HILL RD BETWEEN MARGOT DR/BALTIC AVE & ADRIAN ST	S30007	County		X
AUTOMOBILE BLVD	S00113	County		
BROOKVILLE RD AT GARFIELD AVE	S30182	County		X
BROOKVILLE RD BETWEEN TALBOT AVE & STEWART AVE	S31030	County		X
BURLINGTON AVE BETWEEN SELIM RD & 13TH ST/GEORGIA AVE	S28051	County	X	X
CARROLL AVE BETWEEN LONG BRANCH PKWY & GARLAND AVE	S31191	Takoma Park	X	
CARROLL AVE BETWEEN MERRIMAC DR & CHESTER ST/WILDWOOD DR	S31076	Takoma Park	X	X
CHESTNUT ST BETWEEN DIAMOND AVE & MEEM AVE	S21648	Gaithersburg		X
DIAMOND AVE BETWEEN FREDERICK AVE & CHESTNUT ST	S28052	Gaithersburg		X
DIAMOND AVE BETWEEN GIRARD ST & MELVIN ST	S29709	Gaithersburg		X
DIAMOND AVE BETWEEN MELVIN ST & SUMMIT AVE/SUMMIT AVE	S30282	Gaithersburg		X
DIAMOND AVE BETWEEN PARK AVE & RUSSELL AVE	S31935	Gaithersburg		X
DIAMOND AVE BETWEEN RAILROAD ST/WASHINGTON GROVE LN & GIRARD ST	S29573	Gaithersburg		X
DIAMOND AVE BETWEEN RUSSELL AVE & FREDERICK AVE	S31787	Gaithersburg		X
GLENALLAN AVE BETWEEN RANDOLPH RD & LAYHILL RD	S28602	County		X
GRAND PRE RD BETWEEN BEL PRE RD & CONNECTICUT AVE	S01679	County		X
GREENCASTLE RD BETWEEN TURBRIDGE DR & SWAN HOUSE CT	S31594	County		
INDUSTRIAL PKWY BETWEEN OLD COLUMBIA PIKE & TECH RD	S21572	County		
KNOWLES AVE BETWEEN DETRICK AVE & SUMMIT AVE	S30420	County	X	
LOCKWOOD DR AT COLUMBIA PIKE	S30322	County		
LOCKWOOD DR BETWEEN BURNT MILLS AVE & BURNT MILLS CT	S30481	County		
LOFSTRAND LN BETWEEN TAFT ST & SOUTHLAWN LN	S00476	Rockville		
LONGMEAD CROSSING DR BETWEEN HOMECREST RD & NORMANDY CROSSING DR	S31168	County		
LONGMEAD CROSSING DR BETWEEN SNOWBIRD TER & TELLURIDE PL	S30978	County		
LONGMEAD CROSSING DR BETWEEN TELLURIDE PL & NORMANDY CROSSING DR	S32229	County		
LONGMEAD CROSSING DR BETWEEN LADYMEADE DR & NORMANDY CROSSING DR	S30811	County		
OAKMONT AVE BETWEEN RAILROAD ST & CITATION DR	S30041	County		X
OLDE TOWNE AVE BETWEEN SUMMIT AVE & FULKS CORNER AVE	S23716	Gaithersburg		X
PHILADELPHIA AVE BETWEEN CHICAGO AVE & FENTON ST/BURLINGTON AVE	S31190	Takoma Park	X	
PINEY BRANCH RD BETWEEN SILVER SPRING AVE & BELMONT CT/SLIGO AVE	S29465	County	X	
PINEY BRANCH RD BETWEEN SLIGO CREEK PKWY & PARK CREST DR	S30018	County	X	
ROBEY RD BETWEEN PALMER HOUSE WAY & ROBEY TER	S31983	County		
SLIGO AVE BETWEEN FENTON ST & MAYOR LN	S09947	County		X
SOUTHLAWN LN AT LOFSTRAND LN	S19059	Rockville		
STEWART LN BETWEEN APRIL LN & WHITE OAK VISTA DR	S18280	County		X
STEWART LN BETWEEN NOVEMBER CIR & LOCKWOOD DR	S19301	County		X
STEWART LN BETWEEN WHITE OAK VISTA DR & OLD COLUMBIA PIKE	S19092	County		X
WARING STATION RD BETWEEN MIDDLEBROOK RD & HOTTINGER CIR	S29598	County		X
WESTLAKE TER BETWEEN AUTO PARK AVE & WESTLAKE DR	S28879	County		
WISTERIA DR BETWEEN CIRCLE GATE DR & GREAT SENECA HWY	S32366	County		X
WISTERIA DR BETWEEN CRYSTAL ROCK DR & CIRCLE GATE DR	S32033	County		X
WISTERIA DR BETWEEN CRYSTAL ROCK DR & DOCTORS DR	S29672	County		X
WISTERIA DR BETWEEN GREAT SENECA HWY & MISTY MEADOW TER	S32365	County		X
WISTERIA DR BETWEEN WILLOW SPRING DR & BENT WILLOW CT	S29497	County		X
WOOTTON PKWY BETWEEN FLEET ST & EDMONSTON DR	S30558	Rockville		

Attachment C: Excerpt from Predictive Safety Analysis

PEDESTRIAN HYBRID BEACON

Location	Location ID	Jurisdiction	State Road	EEA
AIRCRAFT DR BETWEEN CENTURY BLVD & GERMANTOWN RD	S25729	County		X
ARLISS ST BETWEEN WALDEN RD/GARLAND AVE & PINEY BRANCH RD	S06814	County		X
ASBURY DR AT FELLOWSHIP CIR	S25563	Gaithersburg		X
BATTERY LN BETWEEN WOODMONT AVE & KEYSTONE AVE	S29349	County		
BEL PRE RD BETWEEN BEL PRE DR & RIPPLING BROOK DR	S30608	County		
BETHESDA AVE AT WISCONSIN AVE	S24625	County		
BRADLEY BLVD BETWEEN STRATHMORE ST & OFFUTT LN	S29036	County	X	
BUREAU DR BETWEEN FIRSTFIELD RD & DIAMOND AVE	S23188	Gaithersburg		X
CAMPUS DR AT MANNAKEE ST	S16016	Rockville		
CARROLL AVE BETWEEN TULIP AVE & WESTMORELAND AVE	S29420	Takoma Park	X	
CENTERWAY RD BETWEEN KINGLET PL/BLUE HERON LN & HARKNESS LN	S32367	County		
CENTURY BLVD BETWEEN DORNIER PL & AIRCRAFT DR	S25794	County		
CHAPMAN AVE BETWEEN BOUIC AVE & HALPINE RD/ROCKVILLE PIKE	S27166	Rockville		X
CHRISTOPHER AVE BETWEEN GALLOP HILL RD & RUSSELL AVE	S28832	Gaithersburg		X
CONTOUR RD BETWEEN HORIZON RUN RD & LOST KNIFE CIR	S20781	County		X
CRABBS BRANCH WAY BETWEEN REDLAND RD & MOCCASIN LN	S30736	County		
CRYSTAL ROCK DR BETWEEN MIDDLEBROOK RD & WISTERIA DR	S21705	County		X
DARNESTOWN RD BETWEEN QUINCE ORCHARD RD & BRIAR ROCK DR	S29843	Gaithersburg	X	
EAST WEST HWY BETWEEN COLESVILLE RD & BLAIR MILL RD	S00072	County	X	
EDGEMOOR LN BETWEEN OLD GEORGETOWN RD & WOODMONT AVE	S28424	County		
EDMONSTON DR BETWEEN ROCKVILLE PIKE & WOOTTON PKWY	S02033	Rockville		X
FLEET ST BETWEEN PARK AVE & MONROE ST	S00817	Rockville		X
FLOWER AVE BETWEEN ARLISS ST & PINEY BRANCH RD	S28894	County		X
FLOWER AVE BETWEEN DIVISION ST & CARROLL AVE	S30695	Takoma Park	X	
FLOWER HILL WAY BETWEEN WOODFIELD RD & MINERAL SPRINGS DR	S32184	County		
HEWITT AVE BETWEEN BLUE SPRUCE LN & GEORGIA AVE	S26510	County		
JONES MILL RD BETWEEN FORSYTHE AVE/STONEBROOK DR & LE VELLE DR	S31988	County		X
KNOWLES AVE BETWEEN SUMMIT AVE & EWELL AVE	S28076	County	X	
LOST KNIFE RD BETWEEN CONTOUR RD & ASBURY DR/ODEND HAL AVE	S27397	Gaithersburg		X
LOST KNIFE RD BETWEEN LOST KNIFE CIR & CONTOUR RD	S27395	County		X
MANNAKEE ST BETWEEN HUNGERFORD DR & CAMPUS DR	S16865	Rockville		
MARINELLI RD BETWEEN ROCKVILLE PIKE & EXECUTIVE BLVD	S03075	County		
MATENY RD BETWEEN BARLEYCORN WAY/WHEATRIDGE DR & GREAT SENECA HWY	S18303	County		
RESEARCH BLVD BETWEEN RESEARCH PL & GUDE DR	S32205	Rockville		
ROBEY RD BETWEEN ROBEY TER & BRIGGS CHANEY RD	S31877	County		
ROCK SPRING DR AT OLD GEORGETOWN RD	S25550	County		
ROCK SPRING DR BETWEEN ROCKLEDGE DR & JACOBSEN ST	S05009	County		
ROCKLEDGE DR BETWEEN ROCK FOREST DR/ROCKLEDGE BLVD & BREUER ST	S24929	County		
ROCKLEDGE DR BETWEEN ROCK SPRING DR & DEMOCRACY BLVD	S05047	County		
SANGAMORE RD BETWEEN SENTINEL DR & BROOKES LN	S32437	County		
SHAKESPEARE BLVD BETWEEN AMBER RIDGE CIR & SENECA MEADOWS PKWY	S25068	County		
SPARTAN RD BETWEEN BUEHLER RD & MORNINGWOOD DR/GEORGIA AVE	S14915	County		
STEDWICK RD BETWEEN MONTGOMERY VILLAGE AVE & MILLS CHOICE RD	S31737	County		X
WASHINGTONIAN BLVD BETWEEN SHADY ELM ST & WATERFRONT PL	S16945	Gaithersburg		
WATKINS MILL RD BETWEEN CLUB HOUSE RD & STEDWICK RD	S31611	County		X
WATKINS MILL RD BETWEEN COLTFIELD CT & WATKINS MILL DR	S31956	County		X
WATKINS MILL RD BETWEEN TOWN CENTER BLVD & CLOPPER RD	S20300	Gaithersburg		X
WAYNE AVE BETWEEN FENTON ST & GEORGIA AVE	S28978	County		X
WESTBARD AVE AT WESTBARD CIR	S30800	County		
WISCONSIN CIR BETWEEN WESTERN AVE & WILLARD AVE/WISCONSIN AVE	S12842	County		

Attachment C: Excerpt from Predictive Safety Analysis

SPEED HUMPS

Location	Location ID	Jurisdiction	State Road	EEA
BONIFANT ST AT DIXON AVE	S25695	County		X
BONIFANT ST BETWEEN FENTON ACCESS ST & GEORGIA AVE	S10289	County		X
CAMERON ST BETWEEN GEORGIA AVE & RAMSEY AVE	S08851	County		X
CAMERON ST BETWEEN RAMSEY AVE & 2ND AVE	S10916	County		X
CARROLL AVE BETWEEN WILLOW ST & EASTERN AVE	S29425	Takoma Park	X	
CENTURY BLVD BETWEEN TOWN COMMONS DR & MIDDLEBROOK RD	S20281	County		
COMMERCE LN	S28706	County		
CONNECTICUT AVE BETWEEN STATION25 DR & BEL PRE RD	S31163	County		
DISCOVERY PL AT DIXON AVE/WAYNE AVE	S10424	County		X
ELLSWORTH DR BETWEEN FENTON ST & GEORGIA AVE	S00439	County		X
ETHAN ALLEN AVE BETWEEN EAST WEST HWY/NEW HAMPSHIRE AVE & ELM AVE	S28520	Takoma Park	X	
EXECUTIVE PARK CIR AT EXECUTIVE PARK TER	S21161	County		
FENTON ST BETWEEN COLESVILLE RD & CAMERON ST	S13360	County		X
FENTON ST BETWEEN EASLEY ST & THAYER AVE	S30915	County		
FENTON ST BETWEEN SILVER SPRING AVE & SLIGO AVE	S29157	County		
FENTON ST BETWEEN THAYER AVE & SILVER SPRING AVE	S31133	County		
FENTON ST BETWEEN WAYNE AVE & BONIFANT ST	S30020	County		
FIDLER LN BETWEEN GEORGIA AVE & RAMSEY AVE	S08965	County		X
FLOWER AVE BETWEEN PINEY BRANCH RD & DOMER AVE	S30377	Takoma Park	X	X
GILBERT PL BETWEEN GILBERT ST & BARRON ST	S07311	County		X
GRANDVIEW AVE BETWEEN BLUERIDGE AVE & CLAIRMONT VIEW TER	S32292	County		X
GRANDVIEW AVE BETWEEN CLAIRMONT VIEW TER & KENSINGTON BLVD	S32223	County		X
GRANDVIEW AVE BETWEEN KENSINGTON BLVD & UNIVERSITY BLVD	S32222	County		X
LOST KNIFE CIR	S13888	County		X
LOST KNIFE CIR AT CONTOUR RD	S15412	County		X
LYTTONSVILLE RD BETWEEN LYTTONSVILLE PL & ROSS RD	S30169	County		X
MAPLE AVE BETWEEN HILLTOP RD/SLIGO CREEK PKWY & LINCOLN AVE	S30984	Takoma Park		
MAPLE AVE BETWEEN LINCOLN AVE & RITCHIE AVE	S31202	Takoma Park		
MAPLE AVE BETWEEN RITCHIE AVE & SHERMAN AVE	S31266	Takoma Park		
METROPOLITAN AVE BETWEEN ST PAUL ST & CONCORD ST/PLYERS MILL RD	S30422	County	X	
PLYERS MILL RD BETWEEN NASH PL & CONCORD ST/METROPOLITAN AVE	S28447	County		
PRICE AVE BETWEEN FERN ST & ELKIN ST	S25510	County		X
RAMSEY AVE BETWEEN FIDLER LN & COLESVILLE RD	S10280	County		X
RAMSEY AVE BETWEEN WAYNE AVE & BONIFANT ST	S09876	County		X
REEDIE DR BETWEEN GEORGIA AVE & TRIANGLE LN	S08752	County		X
REEDIE DR BETWEEN GRANDVIEW AVE & VEIRS MILL RD	S11769	County		X
REEDIE DR BETWEEN TRIANGLE LN & GRANDVIEW AVE	S05858	County		X
RIPLEY ST AT DIXON AVE	S25855	County		X
ROEDER RD BETWEEN SPRING ST & FENTON ST	S10935	County		X
ROLLINS AVE BETWEEN ROCKVILLE PIKE/TWINBROOK PKWY & STATION23 DR	S31059	Rockville		
ROLLINS AVE BETWEEN STATION23 DR & JEFFERSON ST	S31058	Rockville		
SELFRIDGE RD BETWEEN RANDOLPH RD & SIGSBEE RD	S05987	County		X
SEMINARY RD BETWEEN GEORGIA AVE & COLUMBIA BLVD	S31408	County		
SEMINARY RD BETWEEN SELWAY LN & SUTTON PL	S28094	County		
SEMINARY RD BETWEEN SUTTON PL & STATION19 DR	S28311	County		
SLIGO CREEK PKWY BETWEEN CARROLL AVE & HILLTOP RD/MAPLE AVE	S30985	Takoma Park		
SUMMIT AVE BETWEEN DIAMOND AVE & WELLS AVE	S31936	Gaithersburg		X
TOWNE RD BETWEEN ROCKVILLE PIKE & MONTROSE RD	S30967	County		
VEIRS MILL SERVICE RD BETWEEN SAMPSON RD & RANDOLPH RD	S02867	County		X
WILSON LN BETWEEN ST ELMO AVE/OLD GEORGETOWN RD & CORDELL AVE	S32243	County	X	

Attachment C: Excerpt from Predictive Safety Analysis

LEADING PEDESTRIAN INTERVAL: DOWNTOWN BOULEVARDS

Location	Location ID	Jurisdiction	State Road	EEA
BRADLEY BLVD & ARLINGTON RD	X15099	County	X	
BRADLEY BLVD & LELAND ST & HILLANDALE RD	X15277	County	X	
COLESVILLE RD & FENTON ST	X21234	County	X	X
COLESVILLE RD & SPRING ST	X21285	County	X	X
COLESVILLE RD & WAYNE AVE & 2ND AVE	X21066	County	X	X
DEMOCRACY BLVD & FERNWOOD RD	X12248	County		
EAST WEST HWY & 16TH ST	X20795	County	X	
EAST WEST HWY & COLESVILLE RD	X20972	County	X	
EAST WEST HWY & PEARL ST	X15839	County	X	
EAST WEST HWY & WISCONSIN AVE & OLD GEORGETOWN RD	X15532	County	X	
GEORGIA AVE & BLUERIDGE AVE	X19515	County	X	X
GEORGIA AVE & BONIFANT ST	X21253	County	X	X
GEORGIA AVE & CAMERON ST	X21090	County	X	X
GEORGIA AVE & COLESVILLE RD	X21161	County	X	X
GEORGIA AVE & ELLSWORTH DR	X21224	County	X	X
GEORGIA AVE & REEDIE DR	X19641	County	X	X
GEORGIA AVE & SILVER SPRING AVE	X21267	County	X	X
GEORGIA AVE & SLIGO AVE	X21260	County	X	X
GEORGIA AVE & THAYER AVE	X21258	County	X	X
GEORGIA AVE & UNIVERSITY BLVD	X19555	County	X	X
GEORGIA AVE & VEIRS MILL RD	X19772	County	X	X
GEORGIA AVE & WAYNE AVE	X21244	County	X	X
OLD GEORGETOWN RD & BATTERY LN	X14674	County	X	
OLD GEORGETOWN RD & DEMOCRACY BLVD	X12918	County	X	
OLD GEORGETOWN RD & EDGEMOOR LN & COMMERCE LN	X15377	County	X	
OLD GEORGETOWN RD & GRAND PARK AVE	X13614	County	X	
OLD GEORGETOWN RD & ST ELMO AVE & ARLINGTON RD & WILSON LN	X15097	County	X	
OLD GEORGETOWN RD & WOODMONT AVE	X15283	County	X	
ROCKVILLE PIKE & CALIFORNIA CIR & BOU AVE	X13404	County	X	
ROCKVILLE PIKE & HUBBARD DR	X13501	County	X	
ROCKVILLE PIKE & MARINELLI RD	X13981	County	X	
ROCKVILLE PIKE & NICHOLSON LN	X14092	County	X	
ROCKVILLE PIKE & OLD GEORGETOWN RD	X13869	County	X	
ROCKVILLE PIKE & SECURITY LN	X14197	County	X	
SHADY GROVE RD & FALLSGROVE BLVD & MEDICAL CENTER WAY	X07356	County		
SHADY GROVE RD & RESEARCH BLVD	X07797	County		
UNIVERSITY BLVD & AMHERST AVE	X19932	County	X	
UNIVERSITY BLVD & GRANDVIEW AVE	X19428	County	X	X
UNIVERSITY BLVD & VALLEY VIEW AVE	X18776	County	X	X
UNIVERSITY BLVD & VEIRS MILL RD	X19201	County	X	X
WISCONSIN AVE & 47TH ST	X15628	County	X	
WISCONSIN AVE & BRADLEY LN & BRADLEY BLVD	X15866	County	X	
WISCONSIN AVE & CHELTENHAM DR & NORFOLK AVE	X15441	County	X	
WISCONSIN AVE & MONTGOMERY LN & MONTGOMERY AVE	X15570	County	X	
WISCONSIN AVE & MONTGOMERY ST & PARK AVE	X16199	County	X	
WISCONSIN AVE & SOMERSET TER	X16116	County	X	
WISCONSIN AVE & STANFORD ST	X15815	County	X	
WISCONSIN AVE & WAVERLY ST & ELM ST	X15604	County	X	
WISCONSIN AVE & WISCONSIN CIR & WILLARD AVE	X16287	County	X	
WISCONSIN AVE & WOODMONT AVE & LELAND ST	X15718	County	X	

Attachment C: Excerpt from Predictive Safety Analysis

LEADING PEDESTRIAN INTERVAL: TOWN CENTER BOULEVARDS, BOULEVARDS, AND MAJOR HIGHWAYS

Location	Location ID	Jurisdiction	State Road	EEA
AIRPARK RD & STRATOS LN & ANTARES DR	X11610	County		
AIRPARK RD & WOODFIELD RD	X11026	County	X	
BRADLEY BLVD & GLENBROOK RD	X14545	County	X	
BUREAU DR & DIAMOND AVE	X05543	Gaithersburg	X	
COLESVILLE RD & ST ANDREWS WAY & SLIGO CREEK PKWY	X21676	County	X	X
COLESVILLE RD & UNIVERSITY BLVD	X22131	County	X	
CONNECTICUT AVE & ASPEN HILL RD	X16764	County	X	X
CONNECTICUT AVE & BEACH DR	X16780	County	X	
CONNECTICUT AVE & KENSINGTON PKWY & JONES BRIDGE RD	X17078	County	X	
DARNESTOWN RD & MUDDY BRANCH RD	X05354	County	X	
DARNESTOWN RD & QUINCE ORCHARD RD	X02931	Gaithersburg	X	
EAST WEST HWY & BEACH DR	X18438	County	X	
EAST WEST HWY & GRUBB RD	X19520	County	X	X
EAST WEST HWY & MEADOWBROOK LN	X18695	County	X	X
EAST WEST HWY & SUNDALE DR & WASHINGTON AVE	X20148	County	X	X
FREDERICK RD & GERMANTOWN RD	X03692	County	X	
FREDERICK RD & MIDDLEBROOK RD	X04073	County	X	
FREDERICK RD & PLUMMER DR	X04294	County	X	X
GEORGIA AVE & FOREST GLEN RD	X20383	County	X	
GEORGIA AVE & JUDSON RD & LAYHILL RD	X19619	County	X	X
GEORGIA AVE & OLNEY LAYTONSVILLE RD & OLNEY SANDY SPRING RD	X18182	County	X	
GEORGIA AVE & RANDOLPH RD	X19744	County	X	X
GEORGIA AVE & SPRING ST	X20999	County	X	
GREAT SENECA HWY & CLIMBING IVY DR	X01847	County	X	
GREAT SENECA HWY & CLOPPER RD	X01550	County	X	
GREAT SENECA HWY & KEY WEST AVE	X06402	County	X	X
GREAT SENECA HWY & MATENY RD	X01587	County	X	
GREAT SENECA HWY & MUDDY BRANCH RD	X05564	Gaithersburg	X	X
GREAT SENECA HWY & QUEENSTOWN LN	X01341	County	X	
GREAT SENECA HWY & QUINCE ORCHARD RD	X04135	Gaithersburg	X	
GUDE DR & SOUTHLAWN LN	X12148	Rockville		
KEY WEST AVE & BROSCART RD & DIAMONDBACK DR	X06836	County	X	
MC DONALD CHAPEL DR & QUINCE ORCHARD RD & HILLSTONE RD	X03037	County	X	
MIDCOUNTY HWY & SAYBROOKE OAKS BLVD & WOODFIELD RD	X09207	Gaithersburg	X	
MONTROSE PKWY & EXECUTIVE BLVD & JEFFERSON ST	X12858	County		
NEW HAMPSHIRE AVE & ADELPHI RD & DILSTON RD	X24164	County	X	X
NEW HAMPSHIRE AVE & SPENCERVILLE RD & NORBECK RD	X23676	County	X	
OBSERVATION DR & RIDGE RD	X02916	County	X	
OLNEY SANDY SPRING RD & OLD VIC BLVD	X20025	County	X	
OLNEY SANDY SPRING RD & PRINCE PHILIP DR	X18976	County	X	
RANDOLPH RD & DEWEY RD	X15983	County		X
RANDOLPH RD & VEIRS MILL RD	X16598	County	X	X
ROCKVILLE PIKE & JONES BRIDGE RD	X15290	County	X	
SENECA MEADOWS PKWY & OBSERVATION DR & SHAKESPEARE BLVD	X02853	County		
SHADY GROVE RD & DARNESTOWN RD	X07202	County		
SHADY GROVE RD & MUNCASTER MILL RD & AIRPARK RD	X11479	County	X	X
UNIVERSITY BLVD & CARROLL AVE	X23491	County	X	X
UNIVERSITY BLVD & NEWPORT MILL RD & DECATUR AVE	X17608	County	X	
UNIVERSITY BLVD & PINEY BRANCH RD	X23339	County	X	X
UNIVERSITY BLVD & SLIGO CREEK PKWY	X21057	County	X	

Attachment C: Excerpt from Predictive Safety Analysis

TRAFFIC SIGNAL (LEFT-TURN CRASHES)

Location	Location ID	Jurisdiction	State Road	EEA
COLESVILLE RD & HASTINGS DR & GRANVILLE DR	X21898	County	X	
COLESVILLE RD & LEIGHTON AVE	X21850	County	X	
COLESVILLE RD & LORAIN AVE	X22274	County	X	
CONNECTICUT AVE & HOWARD AVE	X17147	County	X	
CONNECTICUT AVE & WARNER ST	X17102	County	X	
FREDERICK RD & GAME PRESERVE RD & FREDERICK AVE	X04946	County	X	X
FREDERICK RD & SCENERY DR & GUNNERS BRANCH RD	X04103	County	X	X
GEORGIA AVE & BALLARD ST	X20928	County	X	
GEORGIA AVE & BATCHELLORS FOREST RD & HILLCROFT DR	X17529	County	X	
GEORGIA AVE & BONNYWOOD LN & TILTON DR	X20310	County	X	
GEORGIA AVE & DAWSON AVE & LEESBOROUGH DR	X19502	County	X	X
GEORGIA AVE & DAYTON ST & PREDELLA DR	X20023	County	X	
GEORGIA AVE & HENDERSON AVE	X19562	County	X	X
GEORGIA AVE & HIGHLAND DR	X20760	County	X	
GEORGIA AVE & KING ST	X21261	County	X	X
GEORGIA AVE & LINDELL ST & GEORGIAN WAY	X19686	County	X	X
GEORGIA AVE & MASON ST	X19728	County	X	X
GEORGIA AVE & NOYES DR	X20856	County	X	
GEORGIA AVE & PARKER AVE	X19539	County	X	X
GEORGIA AVE & WELLER RD	X18817	County	X	X
GEORGIA AVE & WENDY LN	X17452	County	X	X
RANDOLPH RD & GOODHILL RD	X17777	County		X
ROCKVILLE PIKE & LOCUST HILL RD & CEDAR CROFT DR	X15223	County	X	
ROCKVILLE PIKE & MEETING ST	X13823	County	X	
SIESTA KEY WAY & KEY WEST AVE	X07363	County	X	
UNIVERSITY BLVD & BAYFIELD ST	X23463	County	X	X
UNIVERSITY BLVD & DEARBORN AVE & MOSS AVE	X22944	County	X	
UNIVERSITY BLVD & DRUMM AVE & HILLSDALE DR	X18616	County	X	
UNIVERSITY BLVD & ELKIN ST	X19713	County	X	X
UNIVERSITY BLVD & FORSTON ST	X23481	County	X	X
UNIVERSITY BLVD & LANGLEY DR	X23323	County	X	X
UNIVERSITY BLVD & MELBOURNE AVE	X23051	County	X	
UNIVERSITY BLVD & PERRY AVE	X17470	County	X	
UNIVERSITY BLVD & ST LAWRENCE DR	X22471	County	X	
VEIRS MILL RD & MONTERREY DR & SCHOOLHOUSE CIR	X18720	County	X	X
VEIRS MILL RD & PENDLETON DR	X18132	County	X	
WISCONSIN AVE & AVONDALE ST & COMMERCE LN	X15498	County	X	
WISCONSIN AVE & CHASE AVE	X15413	County	X	
WISCONSIN AVE & CHEVY CHASE BLVD	X15944	County	X	
WISCONSIN AVE & CUMBERLAND AVE	X16028	County	X	
WISCONSIN AVE & DAVIDSON DR	X15930	County	X	
WISCONSIN AVE & DE RUSSEY PKWY	X15969	County	X	
WISCONSIN AVE & DRUMMOND AVE	X16008	County	X	
WISCONSIN AVE & FAIRMONT AVE	X15426	County	X	
WISCONSIN AVE & HUNT AVE	X15997	County	X	
WISCONSIN AVE & LANGDRUM LN	X15981	County	X	
WISCONSIN AVE & MIDDLETON LN	X15470	County	X	
WISCONSIN AVE & MORGAN DR	X15953	County	X	
WISCONSIN AVE & NORWOOD DR	X15913	County	X	
WISCONSIN AVE & NOTTINGHAM DR	X15899	County	X	

Attachment C: Excerpt from Predictive Safety Analysis

PROTECTED/PERMITTED SIGNAL PHASE

Location	Location ID	Jurisdiction	State Road	EEA
CLOPPER RD & LONGDRAFT RD	X04115	Gaithersburg	X	X
CLOPPER RD & METROPOLITAN GROVE RD & TWELVE OAKS DR	X04889	Gaithersburg	X	X
CLOPPER RD & WATKINS MILL RD & PHEASANT RUN DR	X04539	Gaithersburg	X	X
ELM ST & ARLINGTON RD	X15130	County		
FRIENDSHIP BLVD & WILLARD AVE	X16020	County		
GEORGIA AVE & BONIFANT ST	X21253	County	X	X
GEORGIA AVE & SILVER SPRING AVE	X21267	County	X	X
MONROE ST & FLEET ST	X11298	Rockville		X
NEW HAMPSHIRE AVE & GLENSIDE DR & ERSKINE ST	X23677	Takoma Park	X	
QUINCE ORCHARD RD & SIOUX LN & ORCHARD RIDGE DR	X04493	Gaithersburg	X	
RUSSELL AVE & CHRISTOPHER AVE	X05851	Gaithersburg		X
SLIGO AVE & FENTON ST	X21415	County		X
SOMERVILLE DR & REDLAND RD	X10120	County		
WISCONSIN AVE & CHELTENHAM DR & NORFOLK AVE	X15441	County	X	
WOODMONT AVE & ELM ST	X15344	County		
WOODMONT AVE & HAMPDEN LN	X15337	County		

Attachment C: Excerpt from Predictive Safety Analysis

FULLY PROTECTED LEFT TURN

Location	Location ID	Jurisdiction	State Road	EEA
16TH ST & ELKHART ST & 2ND AVE	X20577	County	X	
ASBURY DR & LOST KNIFE RD & ODENDHAL AVE	X07089	Gaithersburg		X
BUREAU DR & DIAMOND AVE	X05543	Gaithersburg	X	
CLOPPER RD & FIRSTFIELD RD	X05167	Gaithersburg	X	X
CONNECTICUT AVE & RANDOLPH RD	X17475	County	X	X
EAST WEST HWY & BEACH DR	X18438	County	X	
EAST WEST HWY & GRUBB RD	X19520	County	X	X
FREDERICK AVE & WESTLAND DR	X08409	Gaithersburg	X	X
GEORGIA AVE & COLESVILLE RD	X21161	County	X	X
GEORGIA AVE & JUDSON RD & LAYHILL RD	X19619	County	X	X
GEORGIA AVE & WAYNE AVE	X21244	County	X	X
GERMANTOWN RD & CRYSTAL ROCK DR	X02358	County	X	X
GERMANTOWN RD & SENECA MEADOWS PKWY & GOLDENROD LN	X03009	County	X	
GREAT SENECA HWY & CLIMBING IVY DR	X01847	County	X	
GREAT SENECA HWY & CLOPPER RD	X01550	County	X	
GREAT SENECA HWY & MATENY RD	X01587	County	X	
GREAT SENECA HWY & RICHTER FARM RD	X01469	County	X	
GREAT SENECA HWY & WISTERIA DR	X02330	County	X	X
MADAKET RD & SANGAMORE RD & MAC ARTHUR BLVD	X13596	County		
MIDCOUNTY HWY & SAYBROOKE OAKS BLVD & WOODFIELD RD	X09207	Gaithersburg	X	
MONTGOMERY VILLAGE AVE & RUSSELL AVE & STATION8 DR	X06161	Gaithersburg	X	X
NEW HAMPSHIRE AVE & SPENCERVILLE RD & NORBECK RD	X23676	County	X	
OBSERVATION DR & RIDGE RD	X02916	County	X	
OLD GEORGETOWN RD & EXECUTIVE BLVD	X13408	County	X	
OLD GEORGETOWN RD & ST ELMO AVE & ARLINGTON RD & WILSON LN	X15097	County	X	
OLNEY SANDY SPRING RD & PRINCE PHILIP DR	X18976	County	X	
OLNEY SANDY SPRING RD & SPARTAN RD	X18576	County	X	
PINEY BRANCH RD & CARROLL AVE	X23600	County	X	X
RANDOLPH RD & DALEWOOD DR	X18004	County		X
RANDOLPH RD & DEWEY RD	X15983	County		X
ROCKVILLE PIKE	X15275	County	X	
ROCKVILLE PIKE & EDMONSTON DR	X12204	Rockville	X	X
ROCKVILLE PIKE & JONES BRIDGE RD	X15290	County	X	
ROCKVILLE PIKE & MARINELLI RD	X13981	County	X	
ROCKVILLE PIKE & OLD GEORGETOWN RD	X13869	County	X	
RUSSELL AVE & ODENDHAL AVE	X06611	Gaithersburg		X
SEVEN LOCKS RD & WOOTTON PKWY	X10386	Rockville		
SHADY GROVE RD & DARNESTOWN RD	X07202	County		
SHADY GROVE RD & FALLSGROVE BLVD & MEDICAL CENTER WAY	X07356	County		
SLIGO CREEK PKWY & WAYNE AVE	X22310	County		X
UNIVERSITY BLVD & CARROLL AVE	X23491	County	X	X
UNIVERSITY BLVD & GRANDVIEW AVE	X19428	County	X	X
UNIVERSITY BLVD & NEWPORT MILL RD & DECATUR AVE	X17608	County	X	
UNIVERSITY BLVD & PINEY BRANCH RD	X23339	County	X	X
UNIVERSITY BLVD & SLIGO CREEK PKWY	X21057	County	X	
VEIRS MILL RD & 1ST ST	X12059	Rockville	X	X
WISCONSIN AVE & BRADLEY LN & BRADLEY BLVD	X15866	County	X	
WISCONSIN AVE & MONTGOMERY LN & MONTGOMERY AVE	X15570	County	X	
WISCONSIN AVE & WOODMONT AVE & LELAND ST	X15718	County	X	
WOOTTON PKWY & TOWER OAKS BLVD	X11038	Rockville		

Attachment C: Excerpt from Predictive Safety Analysis

INCREASE ALL-RED CLEARANCE INTERVAL: BOULEVARDS, DOWNTOWN BOULEVARDS, TOWN CENTER BOULEVARDS, MAJOR HIGHWAYS

Location	Location ID	Jurisdiction	State Road	EEA
CASTLE BLVD & BRIGGS CHANEY RD & AUTOMOBILE BLVD	X24946	County		X
COLESVILLE RD & FENTON ST	X21234	County	X	X
COLESVILLE RD & SPRING ST	X21285	County	X	X
COLESVILLE RD & UNIVERSITY BLVD	X22131	County	X	
COLESVILLE RD & UNIVERSITY BLVD	X22171	County	X	
COLESVILLE RD & WAYNE AVE & 2ND AVE	X21066	County	X	X
CONNECTICUT AVE & ASPEN HILL RD	X16764	County	X	X
CONNECTICUT AVE & BEL PRE RD	X17855	County		X
CONNECTICUT AVE & RANDOLPH RD	X17475	County	X	X
EAST WEST HWY & GRUBB RD	X19520	County	X	X
EAST WEST HWY & SUNDALE DR & WASHINGTON AVE	X20148	County	X	X
FREDERICK RD & MIDDLEBROOK RD	X04073	County	X	
GEORGIA AVE & BEL PRE RD	X16842	County	X	X
GEORGIA AVE & CONNECTICUT AVE	X16983	County	X	
GEORGIA AVE & JUDSON RD & LAYHILL RD	X19619	County	X	X
GEORGIA AVE & RANDOLPH RD	X19744	County	X	X
GEORGIA AVE & REEDIE DR	X19641	County	X	X
GEORGIA AVE & UNIVERSITY BLVD	X19555	County	X	X
GEORGIA AVE & WAYNE AVE	X21244	County	X	X
GERMANTOWN RD & CRYSTAL ROCK DR	X02358	County	X	X
GERMANTOWN RD & WISTERIA DR	X01883	County	X	
GREAT SENECA HWY & MUDDY BRANCH RD	X05564	Gaithersburg	X	X
GREAT SENECA HWY & WISTERIA DR	X02330	County	X	X
INDIANOLA DR & CRABBS BRANCH WAY	X10811	County		
LAYHILL RD & BONIFANT RD & BEL PRE RD	X20233	County	X	
MIDDLEBROOK RD & CRYSTAL ROCK DR	X02232	County		X
MONTGOMERY VILLAGE AVE & LOST KNIFE RD & CHRISTOPHER AVE	X06574	County	X	X
NEW HAMPSHIRE AVE & ADELPHI RD & DILSTON RD	X24164	County	X	X
NEW HAMPSHIRE AVE & LOCKWOOD DR	X23608	County	X	
NEW HAMPSHIRE AVE & OAKVIEW DR	X24208	County	X	X
NEW HAMPSHIRE AVE & RANDOLPH RD	X22906	County	X	
OLD COLUMBIA PIKE & FAIRLAND RD	X24695	County		X
RANDOLPH RD & DALEWOOD DR	X18004	County		X
RANDOLPH RD & GLENALLAN AVE	X20211	County		X
RANDOLPH RD & OLD COLUMBIA PIKE	X24547	County		X
RANDOLPH RD & VEIRS MILL RD	X16598	County	X	X
ROCKVILLE PIKE & CALIFORNIA CIR & BOU AVE	X13404	County	X	
ROCKVILLE PIKE & MARINELLI RD	X13981	County	X	
ROCKVILLE PIKE & TUCKERMAN LN	X14550	County	X	
SHADY GROVE RD & MUNCASTER MILL RD & AIRPARK RD	X11479	County	X	X
TWINBROOK PKWY & FISHERS LN	X13672	County		X
TWINBROOK PKWY & PARKLAWN DR & WICOMICO AVE	X13670	County		X
UNIVERSITY BLVD & PINEY BRANCH RD	X23339	County	X	X
UNIVERSITY BLVD & VEIRS MILL RD	X19201	County	X	X
VEIRS MILL RD & CONNECTICUT AVE	X17318	County	X	
VEIRS MILL RD & FERRARA AVE	X17084	County	X	X
VEIRS MILL RD & GAYNOR RD & PARKLAND DR	X15745	County	X	X
VEIRS MILL RD & GRIDLEY RD & SHOP CTR CUT THRU	X16448	County	X	X
VEIRS MILL RD & TWINBROOK PKWY	X14065	County	X	X
WOODFIELD RD & SNOUFFER SCHOOL RD & MUNCASTER MILL RD	X10522	County	X	X

Attachment C: Excerpt from Predictive Safety Analysis

INCREASE ALL-RED CLEARANCE INTERVAL: ALL OTHER STREET TYPES

Location	Location ID	Jurisdiction	State Road	EEA
2ND AVE & FENWICK LN	X20956	County		X
ASBURY DR & LOST KNIFE RD & ODENDHAL AVE	X07089	Gaithersburg		X
BALTIMORE RD & 1ST ST & NORBECK RD	X12167	Rockville	X	
BONIFANT ST & FENTON ST	X21402	County		
CHERRY LAUREL LN & MOONEY DR & SNOUFFER SCHOOL RD	X10038	County		
CLOPPER RD & FIRSTFIELD RD	X05167	Gaithersburg	X	X
CLOPPER RD & METROPOLITAN GROVE RD & TWELVE OAKS DR	X04889	Gaithersburg	X	X
CLOPPER RD & WATKINS MILL RD & PHEASANT RUN DR	X04539	Gaithersburg	X	X
CROFTON HILL LN & MONTGOMERY AVE & RESEARCH BLVD	X08749	Rockville	X	
ELLSWORTH DR & FENTON ST	X21323	County		X
FENTON ST & PHILADELPHIA AVE & BURLINGTON AVE	X21446	County	X	X
FIRSTFIELD RD & QUINCE ORCHARD RD	X05406	Gaithersburg	X	X
FOREST GLEN RD & SEMINARY RD & CAPITOL VIEW AVE	X19250	County	X	
FREDERICK AVE & DEER PARK DR & DEER PARK RD	X07947	Gaithersburg	X	X
FREDERICK AVE & MONTGOMERY VILLAGE AVE	X05936	Gaithersburg	X	X
FREDERICK AVE & PERRY PKWY & LAKEFOREST BLVD	X06192	Gaithersburg	X	X
FREDERICK AVE & SUMMIT AVE	X07425	Gaithersburg	X	X
FREDERICK AVE & TRAVIS AVE & SPECTRUM AVE	X05227	Gaithersburg	X	X
FREDERICK AVE & WATKINS MILL RD	X05461	Gaithersburg	X	X
FREDERICK AVE & WESTLAND DR	X08409	Gaithersburg	X	X
GREAT SENECA HWY & ORCHARD RIDGE DR & KENTLANDS BLVD	X04638	Gaithersburg	X	
HUNGERFORD DR & WASHINGTON ST & A ST	X11086	Rockville	X	X
MONTROSE PKWY & CHAPMAN AVE & RANDOLPH DR	X13932	County		
MONTROSE RD & JEFFERSON ST	X12862	County		
ODENDHAL AVE & GOSHEN RD	X07602	Gaithersburg		X
OLD GEORGETOWN RD & EXECUTIVE BLVD	X13408	County	X	
PARKLAND DR & ASPEN HILL RD	X16216	County		X
PINEY BRANCH RD & DEVON RD & PINEY BRANCH RD	X22404	County	X	
RANDOLPH RD & NEBEL ST	X14147	County		
ROCK SPRING DR & MARRIOTT DR & FERNWOOD RD	X12123	County		
ROCKVILLE PIKE & CHAPMAN AVE & HALPINE RD	X13005	Rockville	X	X
ROCKVILLE PIKE & EDMONSTON DR	X12204	Rockville	X	X
ROCKVILLE PIKE & MIDDLE LN & PARK RD	X11402	Rockville	X	X
ROCKVILLE PIKE & RICHARD MONTGOMERY DR & DODGE ST	X11662	Rockville	X	X
ROCKVILLE PIKE & TWINBROOK PKWY & ROLLINS AVE	X13230	Rockville	X	
ROCKVILLE PIKE & WOOTTON PKWY & 1ST ST	X11989	Rockville	X	X
ROLLINS AVE & JEFFERSON ST	X12839	Rockville		
RUSSELL AVE & CHRISTOPHER AVE	X05851	Gaithersburg		X
RUSSELL AVE & ODENDHAL AVE	X06611	Gaithersburg		X
SLIGO AVE & FENTON ST	X21415	County		X
SLIGO CREEK PKWY & WAYNE AVE	X22310	County		X
THAYER AVE & FENTON ST	X21408	County		
TWINBROOK PKWY & CHAPMAN AVE	X13419	Rockville		
VEIRS MILL RD & 1ST ST	X12059	Rockville	X	X
VEIRS MILL RD & BROADWOOD DR	X13028	Rockville	X	X
WAYNE AVE & DIXON AVE & DISCOVERY PL	X21175	County		X
WAYNE AVE & FENTON ST	X21388	County		X
WAYNE AVE & RAMSEY AVE	X21114	County		X
WESTLAKE TER & WESTLAKE DR	X11427	County		
WOODFIELD RD & MAIN ST	X06840	County	X	

Attachment C: Excerpt from Predictive Safety Analysis

MINI-ROUNDBOUT

Location	Location ID	Jurisdiction	State Road	EEA
2ND AVE & BALLARD ST	X20817	County		
2ND AVE & HANOVER ST	X20457	County		
2ND AVE & LUZERNE AVE	X20348	County		
2ND AVE & ROOKWOOD RD	X20329	County		
AMHERST AVE & ELKIN ST	X19950	County		X
ARDENNES AVE & CRAWFORD DR	X13344	Rockville		X
BAUER DR & ARCTIC AVE	X15538	County		
BLUERIDGE AVE & GRANDVIEW AVE	X19422	County		X
BRUNETT AVE & FOREST GLEN RD	X21569	County		
DAIRYMAID DR & METZ DR	X01825	County		
DEBORAH DR & BELLS MILL RD	X09874	County		
DUVALL LN & DEER PARK RD	X06868	Gaithersburg		X
EDINBURGH LN & MAPLE AVE & MAPLEWOOD AVE	X22773	Takoma Park		
ELGIN RD & FISHER AVE	X00097	Poolesville	X	
EXECUTIVE BLVD & WOODGLEN DR	X13942	County		
FERRARA DR & CHARLES RD	X16468	County		X
FLOWER AVE & DOMER AVE	X22819	Takoma Park	X	
FLOWER AVE & HOUSTON AVE	X22912	Takoma Park	X	
FLOWER AVE & KENNEBEC AVE	X22942	Takoma Park	X	
FLOWER AVE & WABASH AVE	X22892	Takoma Park	X	X
GAINSBOROUGH RD & BELLS MILL RD	X09352	County		
GATESHEAD MANOR WAY & ASTON MANOR DR	X25138	County		X
GRANDVIEW AVE & ENNALLS AVE	X19456	County		X
GRIDLEY LN & INWOOD AVE	X20842	County		
GROVE ST & THAYER AVE	X21537	County		
HALPINE RD & ARDENNES AVE	X13506	Rockville		X
HERITAGE HILLS DR & QUEEN ELIZABETH DR	X17758	County		
HILDEGARD LN & THOMPSON RD & PEACH ORCHARD RD	X24598	County		
HOLLY AVE & PHILADELPHIA AVE	X22109	Takoma Park	X	
JAMES ST & CEDAR AVE	X07032	Gaithersburg		X
LANARK WAY & LORAIN AVE	X21861	County		
MEADOW HALL DR & MC AULIFFE DR	X13977	Rockville		
NORMANDY CROSSING DR & HOMECREST RD & LONGMEAD CROSSING DR	X19335	County		
PARK AVE & BROOKES AVE	X07333	Gaithersburg		X
PINNACLE DR & CENTURY BLVD	X02176	County		
QUINTON RD & SUNDALE DR	X20082	County		X
RAINBOW DR & GOOD HOPE RD	X24157	County		
ROCKING HORSE RD & BOILING BROOK PKWY	X15151	County		X
RUSSELL AVE & BROOKES AVE	X07189	Gaithersburg		X
SHAKESPEARE BLVD & NEELSVILLE CHURCH RD	X04098	County		
SPENCER RD & RICHLAND ST & SUNDALE DR	X20130	County		X
ST PAUL ST & PLYERS MILL RD	X17828	County		
SUMMIT HALL RD & DEER PARK RD	X07169	Gaithersburg		X
TAYLOR ST & BROOKVILLE RD	X17734	County	X	
TSCHIFFELY SQUARE RD & KENT OAKS WAY	X03413	Gaithersburg		
TULIP AVE & MAPLE AVE	X22123	Takoma Park		
WEISMAN RD & GRANDVIEW AVE	X19500	County		X
WELLER RD & HATHAWAY DR	X18499	County		X
WINDHAM LN & INWOOD AVE	X20820	County		
WINDMILL LN & GOOD HOPE RD	X23911	County		

Attachment C: Excerpt from Predictive Safety Analysis

ALL-WAY STOP CONTROL

Location	Location ID	Jurisdiction	State Road	EEA
2ND AVE & GLEN ROSS RD	X20366	County		
AMBASSADOR DR & DEERWATER DR & WATERS LANDING DR	X01156	County		
ANN DYKE WAY & WATERS LANDING DR	X01030	County		
ARCOLA AVE & GRANDVIEW AVE	X19421	County		X
ARGYLE CLUB LN & VILLAGE GATE DR & LONGMEAD CROSSING DR	X20107	County		
BENT WILLOW CT & PARTRIDGE WOOD DR & WISTERIA DR	X02519	County		X
BRADFORD RD & MANCHESTER RD	X22527	County		X
BRADMOOR DR & GREENTREE RD	X13237	County		
BRIGHTON DR & DEER PARK RD	X07305	Gaithersburg		X
BRUNSWICK AVE & PLYERS MILL RD	X19233	County		
CAROLINE AVE & FRANKLIN AVE	X22173	County		X
CHESTER ST & WILDWOOD DR & CARROLL AVE	X23447	County	X	X
COLLEGE VIEW DR & NEWPORT MILL RD	X18236	County		
COLSTON DR & GRUBB RD	X19622	County		X
DALLAS AVE & FOREST GLEN RD	X21439	County		
DRUMM AVE & PLYERS MILL RD	X18180	County		
EADES ST & ASPEN HILL RD	X15434	County		X
ELM AVE & ETHAN ALLEN AVE	X23253	Takoma Park	X	
EPPING RD & SHERATON ST & DENLEY PL & DENLEY RD	X18730	County		X
EVANS PKWY & MEDICAL PARK DR & DENNIS AVE	X20517	County		
FLOWER AVE & HUDSON AVE	X22891	Takoma Park	X	X
FLOWER AVE & MELBOURNE AVE	X22487	County		
FLOWER AVE & SCHUYLER RD	X22560	County		
FOREST BROOK RD & WARING STATION RD	X03139	County		
FOREST BROOK RD & WINDING CREEK WAY & WARING STATION RD	X03136	County		
GIST AVE & FENTON ST	X21417	County		
GRANT AVE & MAPLE AVE	X22373	Takoma Park		
GRUBB RD & WASHINGTON AVE	X19880	County		X
HOTTINGER CIR & STONEY BOTTOM RD & WARING STATION RD	X02895	County		
IRIS PL & ASPEN HILL RD	X15664	County		X
IRIS ST & ASPEN HILL RD	X15586	County		X
JULEP AVE & DENNIS AVE	X20869	County		
LAWRENCE AVE & NEWPORT MILL RD	X17599	County		
LEATHERBARK DR & FOREST BROOK RD & WARING STATION RD	X03266	County		
LITTLE SENECA PKWY & SPICEBUSH DR	X03419	County		
LUND PL & MADISON ST & NEWPORT MILL RD	X17730	County		
MARTINS LANDING DR & SILVERGATE WAY & WISTERIA DR	X02846	County		
MONROE ST & SEMINARY RD	X20018	County		
MORNINGSIDE DR & TAMARACK RD	X23858	County		
NORMANDY CROSSING DR & LADYMEADE DR & LONGMEAD CROSSING DR	X19556	County		
OCALA ST & FRANKLIN AVE	X22249	County		X
ORIENTAL ST & ASPEN HILL RD	X15527	County		X
SAYBROOK AVE & FRANKLIN AVE	X22376	County		
SPENCER RD & GRUBB RD	X19420	County		X
STONEY BOTTOM RD & ESMOND TER & WARING STATION RD	X03003	County		
TWINBROOK PKWY & MEADOW HALL DR	X14115	Rockville		
WAYNE AVE & BRADFORD RD	X22565	County		X
WELLER RD & FLACK ST	X18672	County		X
WIMBLEDON DR & LADYMEADE DR & LONGMEAD CROSSING DR	X19963	County		
WIRE AVE & FRANKLIN AVE	X22318	County		X

Attachment C: Excerpt from Predictive Safety Analysis

TRAFFIC SIGNAL (ANGLE CRASHES)

Location	Location ID	Jurisdiction	State Road	EEA
BELLS MILL RD & DEMOCRACY BLVD	X12551	County		
COLESVILLE RD & HASTINGS DR & GRANVILLE DR	X21898	County	X	
COLESVILLE RD & LORAIN AVE	X22274	County	X	
COLESVILLE RD & TIMBERWOOD AVE	X22222	County	X	
COLUMBIA PIKE & NORTHWEST DR	X23093	County	X	
COLUMBIA PIKE & OAK LEAF DR	X23308	County	X	
CONNECTICUT AVE & DECATUR AVE	X17296	County	X	
CONNECTICUT AVE & DUPONT AVE	X17234	County	X	
CONNECTICUT AVE & HOWARD AVE	X17147	County	X	
FREDERICK RD & GAME PRESERVE RD & FREDERICK AVE	X04946	County	X	X
FREDERICK RD & SCENERY DR & GUNNERS BRANCH RD	X04103	County	X	X
GEORGIA AVE & BALLARD ST	X20928	County	X	
GEORGIA AVE & BATCHELLORS FOREST RD & HILLCROFT DR	X17529	County	X	
GEORGIA AVE & BONNYWOOD LN & TILTON DR	X20310	County	X	
GEORGIA AVE & DAWSON AVE & LEESBOROUGH DR	X19502	County	X	X
GEORGIA AVE & DAYTON ST & PREDELLA DR	X20023	County	X	
GEORGIA AVE & EVANS PKWY & EVANS DR	X20067	County	X	
GEORGIA AVE & HENDERSON AVE	X19562	County	X	X
GEORGIA AVE & HIGHLAND DR	X20760	County	X	
GEORGIA AVE & KAYSON ST	X18464	County	X	X
GEORGIA AVE & KING ST	X21261	County	X	X
GEORGIA AVE & LINDELL ST & GEORGIAN WAY	X19686	County	X	X
GEORGIA AVE & NOYES DR	X20856	County	X	
GEORGIA AVE & PARKER AVE	X19539	County	X	X
GEORGIA AVE & WELLER RD	X18817	County	X	X
NEW HAMPSHIRE AVE & ELDRID DR	X23012	County	X	
NEW HAMPSHIRE AVE & OAKLAWN CT & OAKLAWN DR	X24087	County	X	
NEW HAMPSHIRE AVE & PARKMAN RD & OVERLOOK DR	X24146	County	X	
NEW HAMPSHIRE AVE & SHAW AVE	X22831	County	X	
NEW HAMPSHIRE AVE & TANLEY RD	X23434	County	X	
RANDOLPH RD & ATHERTON DR	X17099	County		X
RANDOLPH RD & BREGMAN RD	X22652	County		
RANDOLPH RD & BUSHEY DR	X16972	County		X
RANDOLPH RD & CHARLES RD	X16301	County		X
RANDOLPH RD & ENGLISH ORCHARD CT & HEURICH RD	X20445	County		X
RANDOLPH RD & GOODHILL RD	X17777	County		X
ROCKVILLE PIKE & BROAD BROOK DR & ELSMERE AVE	X15158	County	X	
ROCKVILLE PIKE & WICKSHIRE WAY & FLANDERS AVE	X14310	County	X	
UNIVERSITY BLVD & DEARBORN AVE & MOSS AVE	X22944	County	X	
UNIVERSITY BLVD & DRUMM AVE & HILLSDALE DR	X18616	County	X	
UNIVERSITY BLVD & ELKIN ST	X19713	County	X	X
UNIVERSITY BLVD & INDIAN SPRING DR	X22761	County	X	
UNIVERSITY BLVD & KERWIN RD	X21655	County	X	
UNIVERSITY BLVD & LANGLEY DR	X23323	County	X	X
UNIVERSITY BLVD & LORAIN AVE	X22001	County	X	
UNIVERSITY BLVD & MELBOURNE AVE	X23051	County	X	
UNIVERSITY BLVD & PERRY AVE	X17470	County	X	
VEIRS MILL RD & MONTERREY DR & SCHOOLHOUSE CIR	X18720	County	X	X
VEIRS MILL RD & PENDLETON DR	X18132	County	X	
WISCONSIN AVE & AVONDALE ST & COMMERCE LN	X15498	County	X	

Attachment C: Excerpt from Predictive Safety Analysis

RESTRICT TO LEFT-IN ACCESS

Location	Location ID	Jurisdiction	State Road	EEA
16TH ST & GRACE CHURCH RD	X20580	County	X	
CLIFF PINE DR & BRENISH DR & WOODFIELD RD	X11280	County	X	
CLOPPER RD & LIBERTY MILL RD	X01153	County	X	
CONNECTICUT AVE & BALTIMORE ST	X17155	County	X	
CONNECTICUT AVE & BLACKTHORN ST	X17055	County	X	
CONNECTICUT AVE & BRIGHTVIEW ST	X17376	County	X	X
CONNECTICUT AVE & DUNNEL LN	X16783	County	X	
CONNECTICUT AVE & FRANKLIN ST	X16955	County	X	
CONNECTICUT AVE & GREENLY ST	X17524	County	X	X
CONNECTICUT AVE & IRVING ST	X17037	County	X	
CONNECTICUT AVE & KIRKE ST	X17033	County	X	
CONNECTICUT AVE & LELAND ST	X17051	County	X	
CONNECTICUT AVE & LENOX ST	X17034	County	X	
CONNECTICUT AVE & MELROSE ST	X17038	County	X	
CONNECTICUT AVE & NEWLANDS ST	X17027	County	X	
CONNECTICUT AVE & NEWLANDS ST	X17031	County	X	
CONNECTICUT AVE & OXFORD ST	X17039	County	X	
CONNECTICUT AVE & THORNAPPLE ST	X17047	County	X	
CONNECTICUT AVE & UNDERWOOD ST	X17042	County	X	
CONNECTICUT AVE & VIRGILIA ST & WILLIAMS LN	X17048	County	X	
CONNECTICUT AVE & WOODBINE ST	X17046	County	X	
DARNESTOWN RD & ARGOSY DR & DUFIEF MILL RD	X05148	County	X	
GERMANTOWN RD & MILLENIUM CT & CIDER BARREL DR	X03457	County	X	
OLD GEORGETOWN RD & ALTA VISTA RD	X14066	County	X	

Attachment C: Excerpt from Predictive Safety Analysis

CENTERLINE RUMBLE STRIP

Location	Location ID	Jurisdiction	State Road	EEA
ASHTON RD BETWEEN TUCKER LN & ASHLAND DR	S29819	County	X	
BARNESVILLE RD BETWEEN SUGAR RIDGE TER & PEACH TREE RD	S31695	County		
BEALLSVILLE RD BETWEEN ALMANNA FRM CUT THRU & BIG WOODS RD	S32029	County	X	
BUCKLODGE RD BETWEEN MOORE RD & DARNESTOWN RD	S31874	County	X	
BUCKLODGE RD BETWEEN OLD BUCKLODGE LN & WHITES STORE RD	S29528	County	X	
BUCKLODGE RD BETWEEN WHITES STORE RD & MOORE RD	S31827	County	X	
BURNT HILL RD BETWEEN KINGSTEAD RD & KINGSLEY RD	S29142	County		
BURNT HILL RD BETWEEN PRICES DISTILLERY RD & KINGSTEAD RD	S29063	County		
CLARKSBURG RD BETWEEN HYATTSTOWN MILL RD & SNOWDEN FARM PKWY	S29618	County		
CLARKSBURG RD BETWEEN LEWISDALE RD & HYATTSTOWN MILL RD/KINGSLEY RD	S29187	County		
CLARKSBURG RD BETWEEN OLD BALTIMORE RD & CHRISMAN HILL DR	S31253	County	X	
DAMASCUS RD BETWEEN FARM ACCESS RD & WINDCREST LN	S31698	County	X	
DARNESTOWN RD BETWEEN BELLINGHAM DR & WHITES FERRY RD	S29517	County	X	
DARNESTOWN RD BETWEEN BUCKLODGE RD & CATTAIL RD	S30441	County	X	
DARNESTOWN RD BETWEEN BUCKLODGE RD & WHITE GROUND RD	S28811	County	X	
DARNESTOWN RD BETWEEN DICKERSON RD/MARTINSBURG RD & HUNTER RD	S29457	County	X	
DARNESTOWN RD BETWEEN EDEN ROCK CT & SPRING MEADOWS DR	S31007	County	X	
DARNESTOWN RD BETWEEN JERUSALEM RD & BEALLSVILLE RD	S29600	County	X	
DARNESTOWN RD BETWEEN GERMANTOWN RD & BERRYVILLE RD	S31300	County	X	
DICKERSON RD BETWEEN DICKERSON CHURCH RD & DARNESTOWN RD	S31471	County	X	
EDWARDS FERRY RD BETWEEN WASCHE RD/WHITES FERRY RD & CLUB HOLLOW RD	S29690	County		
EDWARDS FERRY RD BETWEEN WESTERLY RD & OFFUTT RD	S29790	County		
ELMER SCHOOL RD AT WHITES FERRY RD	S29754	County		
GEORGIA AVE BETWEEN NEW HAMPSHIRE AVE/DAMASCUS RD & GREGG RD	S32094	County	X	
GERMANTOWN RD BETWEEN BLACK ROCK RD & CITIZENS LN	S31559	County	X	
GREGG RD BETWEEN GEORGIA AVE & GREGG CT	S29139	County		
HUNTER RD BETWEEN DARNESTOWN RD & WASCHE RD	S32170	County		
LAYTONSVILLE RD BETWEEN HAWKINS CREAMERY RD & ROCKY RD	S32014	County	X	
MARTINSBURG RD BETWEEN DICKERSON CP ENT & WHITES FERRY RD	S30242	County		
PARTNERSHIP RD BETWEEN SUGARLAND RD & RIVER RD	S31524	County		
PARTNERSHIP RD BETWEEN WHITES FERRY RD & SUGARLAND RD	S31788	County		
PEACH TREE RD BETWEEN BARNESVILLE RD & SELLMAN RD	S31669	County		
PEACH TREE RD BETWEEN BETH FARM CUT THRU/MOORE RD & DARNESTOWN RD	S29530	County		
PEACH TREE RD BETWEEN COMUS RD & OLD BALTIMORE RD	S31636	County		
RIDGE RD BETWEEN BROWN CHURCH RD & KEMPTOWN RD	S29635	County	X	
RIVER RD BETWEEN HUNTING QUARTER RD & HUGHES RD	S28058	County		
RIVER RD BETWEEN MAIDENS BOWER DR/LONGACRES PRESERVE CT & PETTIT WAY	S27884	County	X	
RIVER RD BETWEEN PARTNERSHIP RD & HUNTING QUARTER RD	S31635	County		
SLIDELL RD BETWEEN COMUS RD & OLD BALTIMORE RD	S31513	County		
SLIDELL RD BETWEEN OLD BALTIMORE RD & BARNESVILLE RD	S31748	County		
SUGARLAND RD BETWEEN MONTEVIDEO RD & PARTNERSHIP RD	S31820	County		
SUGARLAND RD BETWEEN SUGARLAND LN & HUGHES RD	S29104	County		
WASCHE RD AT HUNTER RD	S29665	County		
WHITES FERRY RD BETWEEN ELMER SCHOOL RD & RIVER RD	S29236	County		
WHITES FERRY RD BETWEEN MORROW RD & PARTNERSHIP RD	S31883	County	X	
WHITES FERRY RD BETWEEN SUGARLAND RD & MORROW RD	S32015	County	X	
WHITES STORE RD BETWEEN BUCKLODGE RD & PEACH TREE RD	S31889	County		
WILLARD RD BETWEEN OFFUTT RD & IZAAK WALTON WAY	S30294	County		
WOODFIELD RD BETWEEN WATKINS RD & DEANNA DR	S32057	County	X	
ZION RD BETWEEN RIGGS RD & BROOKEVILLE RD	S29439	County		

Attachment C: Excerpt from Predictive Safety Analysis

REDUCE SPEEDS BY 5 MPH

Location	Location ID	Jurisdiction	State Road	EEA
ASHTON RD BETWEEN TUCKER LN & ASHLAND DR	S29819	County	X	
BARNESVILLE RD BETWEEN CLARKSBURG RD & GANLEY RD	S31109	County	X	
BARNESVILLE RD BETWEEN SUGAR RIDGE TER & PEACH TREE RD	S31695	County		
BEALLSVILLE RD BETWEEN ALMANNA FRM CUT THRU & BIG WOODS RD	S32029	County	X	
BROOKEVILLE RD BETWEEN GRAYHEAVEN MANOR RD & ZION RD	S32422	County		
BUCKLODGE RD BETWEEN MOORE RD & DARNESTOWN RD	S31874	County	X	
BUCKLODGE RD BETWEEN OLD BUCKLODGE LN & WHITES STORE RD	S29528	County	X	
BUCKLODGE RD BETWEEN WHITES STORE RD & MOORE RD	S31827	County	X	
BURNT HILL RD BETWEEN KINGSTEAD RD & KINGSLEY RD	S29142	County		
BURNT HILL RD BETWEEN PRICES DISTILLERY RD & KINGSTEAD RD	S29063	County		
CLARKSBURG RD BETWEEN BARNES RD & PRICES DISTILLERY RD	S29593	County		
CLARKSBURG RD BETWEEN HYATTSTOWN MILL RD & SNOWDEN FARM PKWY	S29618	County		
CLARKSBURG RD BETWEEN LEWISDALE RD & HYATTSTOWN MILL RD/KINGSLEY RD	S29187	County		
CLARKSBURG RD BETWEEN OLD BALTIMORE RD & CHRISMAN HILL DR	S31253	County	X	
CLARKSBURG RD BETWEEN WOODVIEW DR & MOXLEY RD	S29550	County		
DAMASCUS RD BETWEEN FARM ACCESS RD & WINDCREST LN	S31698	County	X	
DAMASCUS RD BETWEEN NEW HAMPSHIRE AVE/GEORGIA AVE & SUNDOWN RD	S31487	County	X	
DARNESTOWN RD BETWEEN EDEN ROCK CT & SPRING MEADOWS DR	S31007	County	X	
DARNESTOWN RD BETWEEN JERUSALEM RD & BEALLSVILLE RD	S29600	County	X	
DICKERSON RD BETWEEN DICKERSON CHURCH RD & DARNESTOWN RD	S31471	County	X	
EDWARDS FERRY RD BETWEEN WASCHE RD/WHITES FERRY RD & CLUB HOLLOW RD	S29690	County		
EDWARDS FERRY RD BETWEEN WESTERLY RD & OFFUTT RD	S29790	County		
ELMER SCHOOL RD AT WHITES FERRY RD	S29754	County		
GEORGIA AVE BETWEEN NEW HAMPSHIRE AVE/DAMASCUS RD & GREGG RD	S32094	County	X	
GERMANTOWN RD BETWEEN BLACK ROCK RD & CITIZENS LN	S31559	County	X	
GREGG RD BETWEEN GEORGIA AVE & GREGG CT	S29139	County		
HAWKINS CREAMERY RD BETWEEN HAWKINS CREAMERY CT & HAWKINS LANDING	S31606	County		
HUNTER RD BETWEEN DARNESTOWN RD & WASCHE RD	S32170	County		
LAYTONSVILLE RD BETWEEN ROCKY RD & GRIFFITH RD	S31750	County	X	
MARTINSBURG RD BETWEEN DICKERSON CP ENT & WHITES FERRY RD	S30242	County		
MONTEVIDEO RD BETWEEN THOROBRED DR & OLD RIVER RD	S31725	County		
PARTNERSHIP RD BETWEEN SUGARLAND RD & RIVER RD	S31524	County		
PARTNERSHIP RD BETWEEN WHITES FERRY RD & SUGARLAND RD	S31788	County		
PEACH TREE RD BETWEEN BARNESVILLE RD & SELLMAN RD	S31669	County		
PEACH TREE RD BETWEEN BETH FARM CUT THRU/MOORE RD & DARNESTOWN RD	S29530	County		
PEACH TREE RD BETWEEN COMUS RD & OLD BALTIMORE RD	S31636	County		
RIDGE RD BETWEEN KEMPTOWN RD & HOLSEY RD	S30053	County	X	
SLIDELL RD BETWEEN COMUS RD & OLD BALTIMORE RD	S31513	County		
SLIDELL RD BETWEEN OLD BALTIMORE RD & BARNESVILLE RD	S31748	County		
SPENCERVILLE RD BETWEEN OURSLER RD & PEACH ORCHARD RD	S29445	County	X	
SUGARLAND RD BETWEEN MONTEVIDEO RD & PARTNERSHIP RD	S31820	County		
SUGARLAND RD BETWEEN SUGARLAND LN & HUGHES RD	S29104	County		
WASCHE RD AT HUNTER RD	S29665	County		
WASCHE RD BETWEEN HUNTER RD & EDWARDS FERRY RD/WHITES FERRY RD	S29164	County		
WHITES FERRY RD BETWEEN MORROW RD & PARTNERSHIP RD	S31883	County	X	
WHITES FERRY RD BETWEEN SUGARLAND RD & MORROW RD	S32015	County	X	
WHITES STORE RD BETWEEN BUCKLODGE RD & PEACH TREE RD	S31889	County		
WILLARD RD BETWEEN OFFUTT RD & IZAAK WALTON WAY	S30294	County		
WOODFIELD RD BETWEEN EXODUS DR & BRINK RD	S32189	County	X	
ZION RD BETWEEN RIGGS RD & BROOKEVILLE RD	S29439	County		

Attachment C: Excerpt from Predictive Safety Analysis

AUTOMATED SPEED ENFORCEMENT

Location	Location ID	Jurisdiction	State Road	EEA
COLESVILLE RD BETWEEN LANARK WAY & HASTINGS DR/GRANVILLE DR	S26501	County	X	
COLESVILLE RD BETWEEN TOMS DR/COLUMBIA PIKE & CRESTMOOR DR	S28613	County	X	
COLUMBIA PIKE BETWEEN BLACKBURN RD & GREENCASTLE RD	S26732	County	X	
COLUMBIA PIKE BETWEEN BRIGGS CHANEY RD & FAIRLAND RD	S31960	County	X	
COLUMBIA PIKE BETWEEN FAIRLAND RD & MUSGROVE RD	S26733	County	X	X
COLUMBIA PIKE BETWEEN GREENCASTLE RD & BRIGGS CHANEY RD	S26439	County	X	
COLUMBIA PIKE BETWEEN INDUSTRIAL PKWY & OLD COLUMBIA CUTOVER PIKE	S27077	County	X	
COLUMBIA PIKE BETWEEN MUSGROVE RD & RANDOLPH RD/CHERRY HILL RD	S27557	County	X	X
COLUMBIA PIKE BETWEEN RANDOLPH RD/CHERRY HILL RD & TECH RD	S26235	County	X	X
COLUMBIA PIKE BETWEEN SANDY SPRING RD & BLACKBURN RD	S28217	County	X	
COLUMBIA PIKE BETWEEN STEWART LN & NEW HAMPSHIRE AVE	S27214	County	X	X
CONNECTICUT AVE AT DENFELD AVE	S28662	County	X	
CONNECTICUT AVE BETWEEN BEACH DR & WOODLAWN RD	S28021	County	X	
CONNECTICUT AVE BETWEEN DENFELD AVE & LAWRENCE AVE	S27067	County	X	
CONNECTICUT AVE BETWEEN INDEPENDENCE ST & DEAN RD	S27902	County	X	X
FREDERICK AVE BETWEEN CHRISTOPHER AVE & MONTGOMERY VILLAGE AVE	S26333	Gaithersburg	X	X
FREDERICK AVE BETWEEN MONTGOMERY VILLAGE AVE & PERRY PKWY	S26404	Gaithersburg	X	X
FREDERICK AVE BETWEEN TRAVIS AVE/SPECTRUM AVE & PARAMOUNT PARK DR	S27204	Gaithersburg	X	X
FREDERICK AVE BETWEEN WATKINS MILL RD & CHRISTOPHER AVE	S26291	Gaithersburg	X	X
FREDERICK RD BETWEEN INDIANOLA DR/WATKINS POND BLVD & GUDE DR	S27276	Rockville	X	
FREDERICK RD BETWEEN RIDGEMONT AVE & SHADY GROVE RD	S29045	Rockville	X	X
FREDERICK RD BETWEEN WHEATFIELD DR & GAME PRESERVE RD/FREDERICK AVE	S28983	County	X	X
GEORGIA AVE BETWEEN BATCHELLORS FOREST RD & THISTLEBRIDGE DR	S26140	County	X	
GEORGIA AVE BETWEEN ROSSMOOR BLVD & BEL PRE RD	S28211	County	X	X
GEORGIA AVE BETWEEN SLIGO AVE & BLAIR MILL RD	S32125	County	X	X
GERMANTOWN RD BETWEEN BOWMAN MILL DR & DAWSON FARM RD	S28022	County	X	
GERMANTOWN RD BETWEEN OBSERVATION DR & SENECA MEADOWS PKWY	S28731	County	X	
HUNGERFORD DR BETWEEN WASHINGTON ST/A ST & STATION3 DR	S26698	Rockville	X	X
MIDDLEBROOK RD AT OBSERVATION DR	S29974	County		X
MONTGOMERY VILLAGE AVE BETWEEN FREDERICK AVE & QUINCE ORCHARD RD	S26299	Gaithersburg	X	X
MONTGOMERY VILLAGE AVE BETWEEN LOST KNIFE RD & RUSSELL AVE	S26461	Gaithersburg	X	
MONTROSE RD BETWEEN TILDENWOOD DR & FARM HAVEN DR/HITCHING POST LN	S28566	County		
NEW HAMPSHIRE AVE BETWEEN ELTON RD & OAKVIEW DR	S31745	County	X	X
NEW HAMPSHIRE AVE BETWEEN BONIFANT RD & COLESVILLE MANOR DR	S29844	County	X	
NEW HAMPSHIRE AVE BETWEEN RODNEY RD & OAKLAWN CT/OAKLAWN DR	S27964	County	X	X
RANDOLPH RD BETWEEN DEWEY RD & GAYNOR RD/ROCKING HORSE RD	S26730	County		X
RIDGE RD AT FATHER HURLEY BLVD	S28778	County	X	
RIDGE RD AT OBSERVATION DR	S28874	County	X	
RIDGE RD BETWEEN BRINK RD & HENDERSON CORNER RD	S28570	County	X	
RIDGE RD BETWEEN FREDERICK RD & OBSERVATION DR	S28999	County	X	
ROCKVILLE PIKE BETWEEN TALBOTT ST & TEMPLETON PL	S28727	Rockville	X	X
SHADY GROVE RD BETWEEN CHOKE CHERRY RD & CORPORATE BLVD/RESEARCH CT	S30304	Gaithersburg		
SHADY GROVE RD BETWEEN CRABBS BRANCH WAY & OAKMONT AVE	S29029	County		
SHADY GROVE RD BETWEEN TUPELO DR/EPSILON DR & BRIARDALE RD	S29250	County		
VEIRS MILL RD BETWEEN HAVARD ST & TURKEY BRANCH PKWY	S26711	County	X	X
VEIRS MILL RD BETWEEN TURKEY BRANCH PKWY & GAYNOR RD/PARKLAND DR	S28486	County	X	X
VEIRS MILL RD BETWEEN WHEATON PLZ ENTRANCE CUT/REEDIE DR & GEORGIA AVE	S28708	County	X	X
WISCONSIN AVE BETWEEN EAST WEST HWY& MONTGOMERY LN	S29681	County	X	
WOODFIELD RD BETWEEN CYPRESS HILL DR/RICKENBACKER DR & AIRPARK RD	S28514	County	X	
WOODFIELD RD BETWEEN ROSEWOOD MANOR LN & HADLEY FARMS DR	S26575	County	X	

Attachment C: Excerpt from Predictive Safety Analysis

APPENDIX K. COUNTERMEASURE COSTS

Countermeasure	Cost	Unit	Source*
All-Way Stop Control	\$5,000	per location	MCDOT
Automated Speed Enforcement	\$0	per location	MCDOT (Costs are offset by revenue)
Centerline Rumble Strip	\$1.50	per foot	MCDOT
Fully Protected Left Turn	\$50,000	per location	MCDOT
High-Visibility Crosswalks	\$3,070	per location	PedBikeSafe
Increase All Red Clearance Interval	\$3,000	per location	PedBikeSafe (comparable to LPI)
Leading Pedestrian Interval	\$3,000	per location	PedBikeSafe
"Left-In-Only" Median	\$50,000	per location	PedBikeSafe
Lighting	\$5,000	per location	PedBikeSafe
Lower Speed Limit by 5 mph	\$1,500	per location	MCDOT
Mini-Roundabout	\$200,000	Per location	MCDOT
Pedestrian Hybrid Beacon	\$175,000	per location	MCDOT
Protected/Permitted Left Turn	\$50,000	per location	MCDOT
Raised Pedestrian Crosswalk	\$15,000	per location	PedBikeSafe
Speed Humps	\$5,000	per location	Speed Humps
Traffic Signal	\$350,000	per location	MCDOT

* PedBikeSafe countermeasures can be found at <http://www.pedbikesafe.org/pedsafe/countermeasures.cfm>.

Thrive Growth Corridor Recommendations and Summary

The following recommendations are based on the evaluation in the Growth Corridor profiles and are intended to improve protected crossing spacing, build out a grid of streets, and build out the walking and bicycling networks. < insert corridor profiles here>

Protected Crossing Spacing

Table 7 recommends several locations along Thrive Montgomery 2050 Growth Corridors that should be considered for new protected crossings. These locations have some of the highest ratios between the actual distance between protected crossings and the target distance between protected crossings identified in the Complete Streets Design Guide, and many are Equity Focus Areas (EFAs). For a complete list of protected crossing spacing along the county’s Growth Corridors, please see Appendix B.

Table 7: Recommended New Protected Crossings Along Thrive Growth Corridors

Location	Area	Actual	Target	Ratio
Connecticut Avenue Growth Corridor				
Maplefield Dr to Denfeld Ave	Suburban	3,000	1,300	2.3
Saul Rd to Beach Dr	Suburban	2,800	1,300	2.2
Washington St to Saul Rd	Suburban	2,700	1,300	2.1
Matthew Henson Trail to Weller Rd	Suburban	2,700	1,300	2.1
Georgia Avenue Growth Corridor				
August Dr to Forest Glen Dr	Forest Glen Town Center	2,100	600	3.5
Arcola Ave to Blueridge Ave	Downtown Wheaton	1,400	400	3.5
Rossmoor Blvd to Bel Pre Rd	Suburban	3,200	1,300	2.5
16th St to Spring St	Suburban	3,100	1,300	2.4
Norbeck Rd to Rossmoor Blvd	Suburban	2,900	1,300	2.2
MD 355 Growth Corridor				
Germantown Rd to Middlebrook Rd	Foxchapel Town Center	4,000	600	6.7
Gunner's Branch Rd to Plummer Dr	Foxchapel Town Center	2,500	600	4.2
Little Seneca Pkwy to W. Old Baltimore Rd	Suburban	3,600	1,300	2.8
New Hampshire Avenue Growth Corridor				
Chalmers Rd to Powder Mill Rd	Hillandale Town Center	3,200	600	5.3
Wolf Dr to Venice Dr	Suburban	4,600	1,300	3.5
Jackson Rd to Heartfields Dr	Suburban	2,800	1,300	2.2