



CITY COUNCIL AGENDA

COUNCIL MEETING WILL BE ONLINE ONLY

Due to the COVID-19 precautions, the Council Meeting will be held online and is planned to be cablecast on Verizon 21, Comcast 71 and 996 and streamed to www.greenbeltmd.gov/municipaltv.

Resident participation:

**[https://us02web.zoom.us/j/81812063940?](https://us02web.zoom.us/j/81812063940?pwd=Q0UyQkFuS3R4OWVoWG42MTRLb3Z6QT09)
[pwd=Q0UyQkFuS3R4OWVoWG42MTRLb3Z6QT09](https://us02web.zoom.us/j/81812063940?pwd=Q0UyQkFuS3R4OWVoWG42MTRLb3Z6QT09)**

OR

Join By phone: (301) 715-8592

Meeting ID: 818 1206 3940

Passcode: 736144

In advance, the hearing impaired is advised to use Video Relay Services (VRS) at 711 to submit your questions/comments or contact the City Clerk at (301) 474-8000 or email banderson@greenbeltmd.gov.

Monday, March 8, 2021

8:00 PM

I. ORGANIZATION

1. Call to Order
2. Roll Call
3. Meditation and Pledge of Allegiance to the Flag
4. Consent Agenda - Approval of Staff Recommendations (Items on the Consent Agenda [marked by *] will be approved as recommended by staff, subject to removal from the Consent Agenda by Council.)

5. Approval of Agenda and Additions

II. COMMUNICATIONS

6. Presentations

- 6a. International Women's Day Proclamation

Suggested Action:

Mayor Byrd will present a proclamation declaring today March 8 as International Women's Day, this year's theme is "Women in leadership: Achieving an equal future in a COVID-19 world," celebrates the tremendous efforts by women and girls around the world in shaping a more equal future and recovery from the COVID-19 pandemic and highlights the gaps that remain.

[Int'l Women's Day proc.pdf](#)

- 6b. Colorectal Cancer Awareness

Suggested Action:

Mayor Byrd will present a proclamation declaring March as National Colorectal Awareness month.

[Colorectal Cancer Awareness Month proc.pdf](#)

- 6c. Cesar Chavez Day Proclamation

Suggested Action:

Mayor Byrd will present a proclamation declaring March 31 as Cesar Chavez Day.

[C. Chavez.pdf](#)

- 6d. Irish American Heritage Month Proclamation

Suggested Action:

Mayor Byrd will present a proclamation declaring March as Irish American Heritage month.

[Irish-American Heritage Month proc.pdf](#)

7. Petitions and Requests

Suggested Action:

- *8. * Minutes of Council Meetings

Suggested Action:

9. Administrative Reports

*10. * Committee Reports

III. LEGISLATION

11.

A Resolution of the City of Greenbelt Adopted Pursuant to the Authority of Article XI-E of the Constitution of Maryland and Section 13 of Article 23A of the Annotated Code of Maryland (1957 Edition as Amended), Title, "Corporation-Municipal," Subtitle "Home Rule" to Amend the Charter of the City of Greenbelt Found, in Whole or in Part, in the Compilation of Municipal Charters of Maryland (1983 Edition as Amended), as Prepared by the Department of Legislative Services Pursuant to Chapter 77 of the Acts of the General Assembly of Maryland of 1983, by Amending Section 32, titled "Vacancies on Council" to Require a Special Election if a Council Seat Becomes Vacant Nine (9) Months Prior to the Next Election (Charter Amendment Resolution No. 2021-1)

- 1st Reading

Suggested Action:

Reference:

Draft Resolution

SB 89 - Municipalities - Vacancies in Elected Offices

Mayor Byrd requested that this be added to the agenda for first reading. Below is the current language in the City Charter.

Sec. 32. Vacancies on council.

If a seat in the council becomes vacant, the remaining members of council by a majority vote shall, as soon as possible, elect a person to fill the unexpired term. If three (3) or more council seats are vacant at the same time, the board of elections shall call at the earliest date a special election to fill said vacancies for the unexpired terms. (Char. Am. Res. No. 1975-3, § 1, 4-7-75)

NOTE: This agenda item background material was not reviewed by legal counsel and staff.

[Res Special Election.pdf](#)
[Special elections legislation.pdf](#)
[SB 89.pdf](#)

IV. OTHER BUSINESS

12. Consent to Hire Technical Consultants to Assist with Maglev DEIS Review

Suggested Action:

Reference:

Norm Marshall resume 2021

Burak Tanyu CV

After reviewing and concurring with recommendations provided by Jill Grant & Associates, staff has selected two consultants to provide technical advice and assistance in reviewing the SCMaglev Draft Environmental Impact Statement, as follows: Dr. Burak Tanyu to assist with geotechnical and infrastructure design issues and Smart Mobility Inc. to assist with transportation and economic issues.

Staff recommends Council consent to these hires.

[Norm Marshall resume 2021.pdf](#)

[Burak Tanyu CV.pdf](#)

13. WMATA's FY 2022 Budget Proposal Including Service Adjustments

Suggested Action:

Reference:

Memorandum, T. Hruby, 03/03/2021

WMATA FY 22 Metrobus Service Changes

Notice of Public Hearing FY 22 Budget

WMATA has released its FY 2022 budget for public review and comment. The proposed budget assumes that during the second half of fiscal year 2022 (January 1 to June 30, 2022) significant service reductions would need to take place to balance the FY 2022 budget. A series of virtual public hearings on WMATA's proposed FY 2022-2027 Capital Improvement Program and Proposed FY 2022 Operating Budget are scheduled early March.

Under WMATA's proposal Metrorail would operate at the February 2021 service

levels (approximately 80 percent of pre-pandemic levels) for the first six months of FY 2022, and then would reduce service to approximately 30 percent pre-pandemic levels beginning January 2022. Service reductions would include increasing weekday and weekend headways, closing the system at 9pm Monday through Saturday instead of 11 pm and closing 22 Metrorail Stations including College Park-U of MD.

Under WMATA's FY 2022 Metrobus service proposal, WMATA is proposing to maintain FY 2021 span and frequency on the majority of its routes for the first half of FY 2022. It is also proposing to add service on the C4 (Greenbelt-Twinbrook) so that it operates until 2am seven days a week and to restore Saturday service on the R12. However, under the proposal Metrobus will operate at 50% of its pre-pandemic bus service for the second half of FY 2022. This means the City and the region are facing **significant** reductions to Metrobus service in January 2022. In Council's back up materials is a staff memo summarizing proposed service changes and excerpts from WMATA's proposed FY 2022 budget on proposed service reductions on Metrobus Routes that serve Greenbelt.

Staff recommends the City Council send a letter to WMATA opposing the Metrorail and Metrobus service reductions proposed for the second half of FY 2022, particularly the elimination of the Metrobus G12, which was developed in collaboration with the City and local transit advocates and provides vital service to areas of the City that are otherwise not served by transit. The letter would cite the significant adverse impacts the reductions will have on Greenbelt residents and business, and the region. Staff further recommends the City Council transmit a letter to our State and Federal representatives advocating for the additional funding to allow WMATA to resume and/or expand on pre-pandemic service levels.

[WMATA FY 22 Metrobus Service Changes.pdf](#)
[Notice-of-Public-Hearing-FY22-Budget.pdf](#)
[Memorandum, T. Hruby, 03/03/2021.pdf](#)

14. * Private Electric Vehicle Charger in City Right-of-Way -133 Northway
Suggested Action:

Reference:

Map Proposed Location

Drawing Proposed Location

Staff has received a request from Mr. Walker, who resides at 133 Northway, for

permission to install an EV charging station in City right-of-way. Typically, staff would require the applicant to place the charger on his/her property since they have a private driveway. However, Mr. Walker has indicated that the steepness of his driveway will not accommodate the second electric vehicle he plans to purchase. Mr. Walker is requesting to place the EV charging station approximately 14 feet from the curb line. Often a 14-foot setback would be outside the City right-of-way but not in this case. This will allow Mr. Walker to charge a vehicle that is parked in his driveway and to charge a second vehicle parked adjacent to his driveway on a parallel space on Northway.

Staff met with Mr. Walker to explore other locations, but a regulation that does not allow for EV charging cords to be greater than 25 feet in length` and the fact that many electric charging vehicles have driver side hookups requires that the EV charging station be approximately 14 feet from the curb. Construction operations will not extend into the 14-foot setback.

Mr. Walker understands that he will not have exclusive rights to the on-street parking space, although it appears there is no competition for the on-street parking in front of his home. He is also aware of the requirement to execute an MOU with the City.

Council approval is sought.

[Map - Proposed Location.pdf](#)

[Drawing - Proposed Location.pdf](#)

15. Foreclosure Moratorium

Suggested Action:

Mayor Byrd requested that this item be added to the agenda. The motion is to have the City Solicitor draft legislation to establish a moratorium prohibiting banks/financial institutions in Greenbelt from foreclosing on Greenbelt Homes Inc. The moratorium would last through the end of this year.

16. Collective Bargaining for all City Employees

Suggested Action:

Mayor Byrd requested that this item be added to the agenda. The motion is to have the City Solicitor to draft legislation to provide all city employees (regardless of department) with the right to collectively bargain.

17. Noncitizen Voting

Suggested Action:

Mayor Byrd requested that this item be added to the agenda. The motion is to have the City Solicitor draft legislation that would authorize non citizen residents of Greenbelt to vote in City elections.

18. Term Limits

Suggested Action:

Mayor Byrd requested that this item be added to the agenda. The motion is to have the City Solicitor draft legislation that would limit City Council Members to no more than five consecutive two year terms in office. This would not apply to sitting Council Members elected prior to 2017.

19. Council Activities

20. Council Reports

*21 * Request to Initiate Memorandum of Understanding with State Highway Administration regarding Litter Pickups

Suggested Action:

Reference: State Highway Administration Memorandum of Understanding Form

Mayor Byrd requested that this item be added to the agenda. The motion is to have City staff complete and submit the attached form.

[State Highway Administration Memorandum of Understanding Form.pdf](#)

*22. * Reappointments to Advisory Boards

Suggested Action:

Reference: Surveys

James Drake has indicated his willingness to continue to serve on the Advisory Planning Board (APB).

Susan Gregersen has indicated her willingness to continue to serve on the Forest Preserve Advisory Board (FPAB).

Catherine Brannan has indicated her willingness to continue to serve on the Senior Citizens Advisory Board (SCAB).

Approval of this item on the consent agenda will indicate Council's intent to appoint them to a new term.

*23. * Appointments to Maglev Task Force

Suggested Action:

Reference: Applications

Approval of this item on the consent agenda will indicate Council's intent to appoint the following individuals to the Maglev Task Force.

Jacquelyn Waters, Martha Galvin, and Jonathan Taylor.

V. MEETINGS

Meetings

Suggested Action:

[meetings.pdf](#)

Stakeholders

[Stakeholder Schedule.pdf](#)

City Council Agenda Item Report

Meeting Date: March 8, 2021

Submitted by: Shaniya Lashley-Mullen

Submitting Department: Administration

Item Type: Proclamation

Agenda Section: COMMUNICATIONS

Subject:

International Women's Day Proclamation

Suggested Action:

Mayor Byrd will present a proclamation declaring today March 8 as International Women's Day, this year's theme is "Women in leadership: Achieving an equal future in a COVID-19 world," celebrates the tremendous efforts by women and girls around the world in shaping a more equal future and recovery from the COVID-19 pandemic and highlights the gaps that remain.

Attachments:

[Int'l Women's Day proc.pdf](#)

PROCLAMATION

WHEREAS, *Women of every race, class, ethnicity, sexual orientation, gender identity and abilities have made historic contributions to the strength of our state and nation in countless recorded and unrecorded ways; and*

WHEREAS, *in overcoming discrimination, harassment and hardship, women have been bold and fearless, never giving up on the promise that with hard work and determination, nothing is out of reach; and*

WHEREAS, *Women play a critical economic, cultural, and social role in every sphere of the life of the Nation, and;*

WHEREAS, *Women have been leaders in securing their own rights of suffrage and equal opportunity, in the abolitionist movement, the emancipation movement, the industrial labor movement, the civil rights movement, and in the forefront of most progressive social change movements, and;*

WHEREAS, *from the early days of Greenbelt to the present, women, like Eleanor Roosevelt, have been advocates and thought leaders in our community; and*

WHEREAS, *despite these contributions, the role of Women has too often been overlooked and undervalued, in the literature and study of history. NOW, THEREFORE*

BE IT RESOLVED, *I, Colin A. Byrd, by the authority vested in me by the residents and City Council of Greenbelt do hereby proclaim March 8th as*

INTERNATIONAL WOMEN'S DAY

and to recognize the role of women in the history of the City of Greenbelt.

IN WITNESS WHEREOF, *I have hereunto set my hand and caused the Seal of the City of Greenbelt, Maryland, to be affixed this 8th day of March 2021.*

COLIN A. BYRD
Mayor

City Council Agenda Item Report

Meeting Date: March 8, 2021

Submitted by: Shaniya Lashley-Mullen

Submitting Department: Administration

Item Type: Proclamation

Agenda Section: COMMUNICATIONS

Subject:

Colorectal Cancer Awareness

Suggested Action:

Mayor Byrd will present a proclamation declaring March as National Colorectal Awareness month.

Attachments:

[Colorectal Cancer Awareness Month proc.pdf](#)

PROCLAMATION

WHEREAS, colorectal cancer is the second-leading cause of cancer deaths in the U.S. among men and women combined;

WHEREAS, one in twenty men and one in twenty-four women will be diagnosed with colorectal cancer in their lifetimes;

WHEREAS, Colorectal Cancer is one of the few cancers that can be prevented with timely screening and due to Covid-19, the total number of colonoscopies, and biopsies performed declined nearly 85% through May 2020 compared to the same time the previous year; and

WHEREAS, it is estimated that over 145,000 people were diagnosed with Colorectal Cancer and over 53,000 people died of Colorectal Cancer in 2020; and

WHEREAS, the national goal established by the National Colorectal Cancer Roundtable is 80 percent of Americans ages 50 and older be screened in every community; and

WHEREAS, it's critical that all people, of all ages, know the signs and symptoms of the disease; and

WHEREAS, observing a Colorectal Cancer Awareness Month during the month of March provides a special opportunity to offer education on the importance of early detection and screening.

NOW, THEREFORE, I, Colin A. Byrd, by the authority vested in me by the residents and City Council of Greenbelt, do hereby proclaim the month of March designated as

COLORECTAL CANCER AWARENESS MONTH

IN WITNESS WHEREOF, I have hereunto set my hand and caused the Seal of the City of Greenbelt, Maryland, to be affixed this 8th day of March 2021.

COLIN A. BYRD
Mayor

City Council Agenda Item Report

Meeting Date: March 8, 2021

Submitted by: Bonita Anderson

Submitting Department: Administration

Item Type: Proclamation

Agenda Section: COMMUNICATIONS

Subject:

Cesar Chavez Day Proclamation

Suggested Action:

Mayor Byrd will present a proclamation declaring March 31 as Cesar Chavez Day.

Attachments:

[C. Chavez.pdf](#)

PROCLAMATION

WHEREAS, César Chávez was born near his family farm in Yuma, Arizona. Growing up the son of migrant farm workers who lost everything in the Great Depression, Cesar Chavez knew hard work and hardship from an early age; and

WHEREAS, he labored long hours for little pay, taking odd jobs to help his family get by and forgoing a formal education to follow the crop cycles; and

WHEREAS, during his formative years, Chávez was exposed to the dismal working conditions that migrant workers were forced to endure; and

WHEREAS, in 1962, after working for many years as a community organizer, he founded the organization which later became the United Farm Workers of America (UFW); and

WHEREAS, as leader of the UFW, Chávez organized agricultural laborers to protest and demand improvements in their working and living conditions; and

WHEREAS, Chávez inspired ordinary people to accomplish extraordinary things, including a historic march of farmworkers in 1965; and

WHEREAS, he more than once sacrificed his own health and comfort to raise awareness of the plight of the farmworkers, undertaking several hunger strikes as part of his lifelong commitment to nonviolent resistance; and

WHEREAS, Cesar Chavez never lost hope in the power of opportunity. He lived each day by a belief as old as America itself -- the idea that with courage and determination, any of us can reach beyond our circumstances and leave our children something better. **NOW**,

BE IT RESOLVED, I, Colin A. Byrd, by the authority vested in me by the residents and City Council of Greenbelt do hereby proclaim March 31st

CÉSAR CHÁVEZ DAY

IN WITNESS WHEREOF, I have hereunto set my hand and caused the Seal of the City of Greenbelt, Maryland, to be affixed this 8th day of March 2021.

COLIN A. BYRD

Mayor

City Council Agenda Item Report

Meeting Date: March 8, 2021

Submitted by: Bonita Anderson

Submitting Department: Administration

Item Type: Proclamation

Agenda Section: COMMUNICATIONS

Subject:

Irish American Heritage Month Proclamation

Suggested Action:

Mayor Byrd will present a proclamation declaring March as Irish American Heritage month.

Attachments:

[Irish-American Heritage Month proc.pdf](#)

PROCLAMATION

***WHEREAS**, Irish-American Heritage Month is celebrated by proclamation of the President and Congress in the United States to honor the achievements and contributions of Irish immigrants and their descendants living in the United States; and*

***WHEREAS**, Irish-American Heritage Month was first celebrated in 1991; and*

***WHEREAS**, Irish-Americans became the soldiers who won American independence, died to preserve our Union, and fought in every battle since to defend America and its values; and*

***WHEREAS**, Irish-American descendants have greatly influenced all aspects of life, including education, the arts, public safety, firefighting, the military, science, agriculture, business, industry, athletics, and public service, including the presidency; and*

***WHEREAS**, the month of March provides many excellent opportunities to acknowledge the outstanding achievements of our thriving Irish-American community; **NOW**,*

***BE IT RESOLVED I**, Colin A. Byrd, by the authority vested in me by the residents and City Council of Greenbelt do hereby proclaim the month of March 2021, as*

IRISH-AMERICAN HERITAGE MONTH

IN WITNESS WHEREOF, I have hereunto set my hand and caused the Seal of the City of Greenbelt, Maryland, to be affixed this 8th day of March 2021.

*Colin A. Byrd
Mayor*

City Council Agenda Item Report

Meeting Date: March 8, 2021

Submitted by: Bonita Anderson

Submitting Department: Administration

Item Type: LEGISLATION

Agenda Section: LEGISLATION

Subject:

A Resolution of the City of Greenbelt Adopted Pursuant to the Authority of Article XI-E of the Constitution of Maryland and Section 13 of Article 23A of the Annotated Code of Maryland (1957 Edition as Amended), Title, "Corporation-Municipal," Subtitle "Home Rule" to Amend the Charter of the City of Greenbelt Found, in Whole or in Part, in the Compilation of Municipal Charters of Maryland (1983 Edition as Amended), as Prepared by the Department of Legislative Services Pursuant to Chapter 77 of the Acts of the General Assembly of Maryland of 1983, by Amending Section 32, titled "Vacancies on Council" to Require a Special Election if a Council Seat Becomes Vacant Nine (9) Months Prior to the Next Election (Charter Amendment Resolution No. 2021-1)

- 1st Reading

Suggested Action:

Reference:

Draft Resolution

SB 89 - Municipalities - Vacancies in Elected Offices

Mayor Byrd requested that this be added to the agenda for first reading. Below is the current language in the City Charter.

Sec. 32. Vacancies on council.

If a seat in the council becomes vacant, the remaining members of council by a majority vote shall, as soon as possible, elect a person to fill the unexpired term. If three (3) or more council seats are vacant at the same time, the board of elections shall call at the earliest date a special election to fill said vacancies for the unexpired terms. (Char. Am. Res. No. 1975-3, § 1, 4-7-75)

***NOTE: This agenda item background material was not reviewed by legal counsel and

staff.***

Attachments:

[Res Special Election.pdf](#)

[Special elections legislation.pdf](#)

[SB 89.pdf](#)

Introduced:
1st Reading:
Passed:
Posted:
Effective:

CHARTER AMENDMENT RESOLUTION NUMBER 2021-1
RESOLUTION NUMBER XXXX

A Resolution of the City of Greenbelt Adopted Pursuant to the Authority of Article XI-E of the Constitution of Maryland and Section 13 of Article 23A of the Annotated Code of Maryland (1957 Edition as Amended), Title, "Corporation-Municipal," Subtitle "Home Rule" to Amend the Charter of the City of Greenbelt Found, in Whole or in Part, in the Compilation of Municipal Charters of Maryland (1983 Edition as Amended), as Prepared by the Department of Legislative Services Pursuant to Chapter 77 of the Acts of the General Assembly of Maryland of 1983, by Amending Section 32, titled "Vacancies on Council" to Require a Special Election if a Council Seat Becomes Vacant Nine (9) Months Prior to the Next Election (Charter Amendment Resolution No. 2021-1)

SECTION I WHEREAS, if a Council seat becomes vacant before the end of the term the remaining members of Council by a majority vote shall, as soon as possible, elect a person to fill the unexpired term, THEREFORE,

SECTION II BE IT RESOLVED AND ORDAINED by the Council of the City of Greenbelt that the Charter of the City, found, in whole or in part, in the compilation of Municipal Charters of Maryland (1983 edition as amended), as prepared by the Department of Legislative Reference pursuant to Chapter 77 of the Acts of the General Assembly of Maryland of 1983, shall be amended by repealing and reenacting with amendment Section 32, titled "Vacancies on Council" as follows:

* * * * *

Section 32. Vacancies on Council.

If a seat in the Council becomes vacant, and there is nine (9) months prior to the next election, a special election shall be held for that vacant seat as soon as it can be reasonably set by the City Board of Elections. If the council seat becomes vacant less than nine (9) months prior to the next election, the remaining members of Council by a majority vote shall, as soon as possible, elect a person to fill the unexpired term. [If three (3) or more council seats are vacant at the same time, the board of elections shall call at the earliest date a special election to fill said vacancies for the unexpired terms.] For the purposes of this section, the term "months" shall be defined as the full month prior to when a seat became vacant, or, the full month prior to the scheduled election.

* * * * *

SECTION III BE IT FURTHER RESOLVED that the date of the adoption of this resolution is _____, 2021, and that the amendment to the Charter of the City, as herein adopted, shall be and become effective on _____, 2021, unless on or before _____, 2021, a proper petition for referendum on this resolution shall be filed as permitted by law.

SECTION IV BE IT FURTHER RESOLVED that a complete and exact copy of this resolution shall be posted at the Greenbelt City Office, 25 Crescent Road, Greenbelt, Maryland, until _____, 2021, and a fair summary of the proposed Charter amendment contained in this resolution shall be published in a newspaper of general circulation in the City of Greenbelt not fewer than four (4) times at weekly intervals before _____, 2021.

SECTION V BE IT FURTHER RESOLVED that as soon as the Charter amendment hereby enacted shall become effective, either as herein provided or following a referendum, the City Manager shall send to the Department of Legislative Reference the following information concerning this Charter resolution: (1) the complete text of this resolution; (2) the date of enactment of the Charter amendment; (3) the date of the referendum election, if any; (4) the number of votes cast for or against this resolution whether by the City Council or in a referendum; and (5) the effective date of the Charter amendment contained herein.

SECTION VI AND BE IT FURTHER RESOLVED that the City Manager of the City of Greenbelt be and hereby is specifically enjoined and instructed to carry out or cause to be carried out the provisions of Sections IV and V.

Colin A. Byrd, Mayor

ATTEST:

Bonita Anderson, City Clerk

Key:

Underscoring indicates language added to existing law.

[Brackets] indicate language deleted from existing law.

Asterisks *** indicate intervening existing Code provisions that remain unchanged.

Special elections legislation

Section 32. Vacancies on Council

If a seat on the council becomes vacant, and there is 9 months prior to the next election, a special election shall be held for that vacant seat as soon as it can be reasonably set by the City Board of Elections. If the council seat becomes vacant less than 9 months prior to the next election, the remaining members of the council by majority vote shall, as soon as possible, elect a person to fill the unexpired term. For the purposes of this section, the term “months” shall be defined as the full month prior to when a seat became vacant, or, the full month prior to the scheduled election.

SENATE BILL 89

L3, G1

1lr1327

(PRE-FILED)

By: **Senator Peters**

Requested: October 30, 2020

Introduced and read first time: January 13, 2021

Assigned to: Education, Health, and Environmental Affairs

A BILL ENTITLED

1 AN ACT concerning

2 **Municipalities – Vacancies in Elected Offices**

3 FOR the purpose of requiring each municipality to establish procedures requiring a vacancy
4 in an elected municipal office to be filled through a regular or special election held
5 within a certain time; and generally relating to municipalities and vacancies in
6 elected municipal offices.

7 BY adding to

8 Article – Local Government

9 Section 4–108.5

10 Annotated Code of Maryland

11 (2013 Volume and 2020 Supplement)

12 SECTION 1. BE IT ENACTED BY THE GENERAL ASSEMBLY OF MARYLAND,
13 That the Laws of Maryland read as follows:

14 **Article – Local Government**

15 **4–108.5.**

16 **EACH MUNICIPALITY SHALL ESTABLISH PROCEDURES THAT REQUIRE A**
17 **VACANCY IN AN ELECTED MUNICIPAL OFFICE TO BE FILLED BY HOLDING A REGULAR**
18 **OR SPECIAL ELECTION WITHIN 90 DAYS AFTER THE DATE THE VACANCY OCCURS.**

19 SECTION 2. AND BE IT FURTHER ENACTED, That this Act shall take effect
20 October 1, 2021.

EXPLANATION: CAPITALS INDICATE MATTER ADDED TO EXISTING LAW.

[Brackets] indicate matter deleted from existing law.



City Council Agenda Item Report

Meeting Date: March 8, 2021

Submitted by: Holly Simmons

Submitting Department: Administration

Item Type: OTHER BUSINESS

Agenda Section: OTHER BUSINESS

Subject:

Consent to Hire Technical Consultants to Assist with Maglev DEIS Review

Suggested Action:

Reference:

Norm Marshall resume 2021

Burak Tanyu CV

After reviewing and concurring with recommendations provided by Jill Grant & Associates, staff has selected two consultants to provide technical advice and assistance in reviewing the SCMaglev Draft Environmental Impact Statement, as follows: Dr. Burak Tanyu to assist with geotechnical and infrastructure design issues and Smart Mobility Inc. to assist with transportation and economic issues.

Staff recommends Council consent to these hires.

Attachments:

[Norm Marshall resume 2021.pdf](#)

[Burak Tanyu CV.pdf](#)

NORMAN L. MARSHALL, PRESIDENT

EDUCATION:

Master of Science in Engineering Sciences, Dartmouth College, Hanover, NH, 1982

Bachelor of Science in Mathematics, Worcester Polytechnic Institute, Worcester, MA, 1977

PROFESSIONAL EXPERIENCE: (33 Years, 19 at Smart Mobility, Inc.)

Norm Marshall helped found Smart Mobility, Inc. in 2001. Prior to this, he was at RSG for 14 years where he developed a national practice in travel demand modeling. He specializes in analyzing the relationships between the built environment and travel behavior, and doing planning that coordinates multi-modal transportation with land use and community needs.

Regional Land Use/Transportation Scenario Planning

Portland Area Comprehensive Transportation System (PACTS) – the Portland Maine Metropolitan Planning Organization. Updating regional travel demand model with new data (including AirSage), adding a truck model, and multiclass Dynamic Traffic Assignment (DTA) including differentiation between cash toll and transponder payments.

Loudoun County Virginia Dynamic Traffic Assignment – Enhanced subarea travel demand model to include Dynamic Traffic Assignment (Cube). Model being used to better understand impacts of roadway expansion on induced travel.

Vermont Agency of Transportation-Enhanced statewide travel demand model to evaluate travel impacts of closures and delays resulting from severe storm events. Model uses innovative Monte Carlo simulations process to account for combinations of failures.

California Air Resources Board – Led team including the University of California in \$250k project that reviewed the ability of the new generation of regional activity-based models and land use models to accurately account for greenhouse gas emissions from alternative scenarios including more compact walkable land use and roadway pricing. This work included hands-on testing of the most complex travel demand models in use in the U.S. today.

Climate Plan (California statewide) – Assisted large coalition of groups in reviewing and participating in the target setting process required by Senate Bill 375 and administered by the California Air Resources Board to reduce future greenhouse gas emissions through land use measures and other regional initiatives.

Chittenden County (2060 Land use and Transportation Vision Burlington Vermont region) – led extensive public visioning project as part of MPO's long-range transportation plan update.

Flagstaff Metropolitan Planning Organization – Implemented walk, transit and bike models within regional travel demand model. The bike model includes skimming bike networks including on-road and off-road bicycle facilities with a bike level of service established for each segment.

Chicago Metropolis Plan and Chicago Metropolis Freight Plan (6-county region)— developed alternative transportation scenarios, made enhancements in the regional travel demand model, and used the enhanced model to evaluate alternative scenarios including development of alternative regional transit concepts. Developed multi-class assignment model and used it to analyze freight alternatives including congestion pricing and other peak shifting strategies.

Municipal Planning

City of Grand Rapids – Michigan Street Corridor – developed peak period subarea model including non-motorized trips based on urban form. Model is being used to develop traffic volumes for several alternatives that are being additionally analyzed using the City's Synchro model

City of Omaha - Modified regional travel demand model to properly account for non-motorized trips, transit trips and shorter auto trips that would result from more compact mixed-use development. Scenarios with different roadway, transit, and land use alternatives were modeled.

City of Dublin (Columbus region) – Modified regional travel demand model to properly account for non-motorized trips and shorter auto trips that would result from more compact mixed-use development. The model was applied in analyses for a new downtown to be constructed in the Bridge Street corridor on both sides of an historic village center.

City of Portland, Maine – Implemented model improvements that better account for non-motorized trips and interactions between land use and transportation, and applied the enhanced model to two subarea studies.

City of Honolulu – Kaka'ako Transit Oriented Development (TOD) – applied regional travel demand model in estimating impacts of proposed TOD including estimating internal trip capture.

City of Burlington (Vermont) Transportation Plan – Led team that developing Transportation Plan focused on supporting increased population and employment without increases in traffic by focusing investments and policies on transit, walking, biking and Transportation Demand Management.

Transit Planning

Regional Transportation Authority (Chicago) and Chicago Metropolis 2020 – evaluated alternative 2020 and 2030 system-wide transit scenarios including deterioration and enhance/expand under alternative land use and energy pricing assumptions in support of initiatives for increased public funding.

Capital Metropolitan Transportation Authority (Austin, TX) Transit Vision – analyzed the regional effects of implementing the transit vision in concert with an aggressive transit-oriented development plan developed by Calthorpe Associates. Transit vision includes commuter rail and BRT.

Bus Rapid Transit for Northern Virginia HOT Lanes (Breakthrough Technologies, Inc and Environmental Defense.) – analyzed alternative Bus Rapid Transit (BRT) strategies for proposed privately-developing High Occupancy Toll lanes on I-95 and I-495 (Capital Beltway) including different service alternatives (point-to-point services, trunk lines intersecting connecting routes at in-line stations, and hybrid).

Roadway Corridor Planning

I-30 Little Rock Arkansas – Developed enhanced version of regional travel demand model that integrates TransCAD with open source Dynamic Traffic Assignment (DTA) software, and used to model I-30 alternatives. This model models freeway bottlenecks much more accurately than the base TransCAD model.

South Evacuation Lifeline (SELL) – In work for the South Carolina Coastal Conservation League, used Dynamic Travel Assignment (DTA) to estimate evaluation times with different transportation alternatives in coastal South Carolina including a new proposed freeway.

Hudson River Crossing Study (Capital District Transportation Committee and NYSDOT) – Analyzing long term capacity needs for Hudson River bridges which a special focus on the I-90 Patroon Island Bridge where a microsimulation VISSIM model was developed and applied.

PUBLICATIONS AND PRESENTATIONS (partial list)

DTA Love: Co-leader of workshop on Dynamic Traffic Assignment at the June 2019 Transportation Research Board Planning Applications Conference.

Forecasting the Impossible: The Status Quo of Estimating Traffic Flows with Static Traffic Assignment and the Future of Dynamic Traffic Assignment. *Research in Transportation Business and Management* 2018.

Assessing Freeway Expansion Projects with Regional Dynamic Traffic Assignment. Presented at the August 2018 Transportation Research Board Tools of the Trade Conference on Transportation Planning for Small and Medium Sized Communities.

Vermont Statewide Resilience Modeling. With Joseph Segale, James Sullivan and Roy Schiff. Presented at the May 2017 Transportation Research Board Planning Applications Conference.

Assessing Freeway Expansion Projects with Regional Dynamic Traffic Assignment. Presented at the May 2017 Transportation Research Board Planning Applications Conference.

Pre-Destination Choice Walk Mode Choice Modeling. Presented at the May 2017 Transportation Research Board Planning Applications Conference.

A Statistical Model of Regional Traffic Congestion in the United States, presented at the 2016 Annual Meeting of the Transportation Research Board.

MEMBERSHIPS/AFFILIATIONS

Associate Member, Transportation Research Board (TRB)

Member and Co-Leader Project for Transportation Modeling Reform, Congress for the New Urbanism (CNU)

BURAK F. TANYU

Sid and Reva Dewberry Department of Civil, Environmental, and Infrastructure Engineering
George Mason University, Fairfax VA 22030

Ph: [REDACTED]

I. EDUCATION AND EXPERIENCE

A. Education

- Ph.D.** Geological/Geotechnical Engineering Program May 2003
Civil and Environmental Engineering Department
University of Wisconsin-Madison
- M.S.** Earth and Environmental Sciences May 1999
(Formerly known as Geology Department)
University of Texas-Arlington
- B.S.** Geological Engineering December 1996
Dokuz Eylul University, Izmir-Turkey

B. Professional experience

i. Academic

- George Mason University, Fairfax, VA* 2011 – present
Department of Civil, Environmental, and Infrastructure Engineering (CEIE)
Associate Professor (tenured), 2017-present
Director of Civil and Environmental Engineering Laboratories, 2017-present
Assistant Professor (tenure-track), 2011-2017
- University of Wisconsin, Madison, WI* 1999 – 2003
Graduate Research Assistant, Department of Civil and Environmental Engineering
Graduate Teaching Assistant, Department of Civil and Environmental Engineering
- University of Texas, Arlington, TX* 1996 – 1999
Graduate Teaching Assistant, Department of Earth and Environmental Sciences

ii. Engineering Practice

- Geosyntec Consultants, Chicago, IL* 2003 – 2011
- Senior Engineer, 2009-2011
 - Project Engineer, 2006-2009
 - Assistant Project Engineer, 2004-2006
 - Senior Staff Engineer, 2003-2004

II. CONTRACTS AND PROJECTS

A. Research Grants

16. Duration: 2019-2021 (Two Years)
Project title: Evaluating the Longevity and Condition of the Geotextiles Used in the Past in Geo-Infrastructures Constructed with Recycled Concrete Aggregate
15. Duration: 2018-2021 (Three Years)
Project title: Stabilization with Geosynthetics of Foundation Soils in Roadway Systems
14. Duration: 2019-2021 (Two Years)
Project title: Suitability of Using Recycled Concrete Aggregate (RCA) As a Backfill in Mechanically Stabilized Earth (MSE) Walls Reinforced with Geotextiles
13. Duration: 2018-2024 (Six Years)
Project title: Suitability of Using Crushed Hydraulic Cement Concrete (CHCC) Adjacent to Geotextiles in Underdrain Systems Second Phase: Field Trial Before Implementation
12. Duration: 2018-2020 (Two Years)
Project title: Existing Condition Assessment, Remaining Service Life Prediction, and Evaluation of Repair Methods
11. Duration: 2018-2019 (One Year)
Project title: Evaluating the Contribution of Geotextile to the Performance of the Roadways
10. Duration: 2018-2020 (Two Years)
Project title: Developing Quality Control Measures to Use Reclaimed Asphalt Pavement (RAP) in Unbound Base Aggregate in Flexible Pavement Systems
9. Duration: 2017-2019 (Two Years)
Project title: Evaluating the Potential of Bio-Inspired Soils to Enhance Nature Based Coastal Resiliency Systems by Combining Experimental and Computational Methods
8. Duration: 2016-2019 (Three Years)
Project title: Differentiation Between Physical and Chemical Clogging Phenomena: Underdrain Stormwater Systems with Geotextiles Constructed Alongside Recycled Concrete Aggregate

7. Duration: 2016-2017 (One year)
Project title: Effect of Temperature Change on the Erosion of Soils
6. Duration: 2015-2019 (Four years)
Project title: Developing a Mix Design Methodology to Use Reclaimed Asphalt Pavement (RAP) in Unbound Base Aggregate in Flexible Pavement Systems
5. Duration: 2014-2018 (Four years)
Project title: Defining the Boundary Conditions for Composite Behavior of Geosynthetic Reinforced Soil (GRS) Structures
4. Duration: 2013-2017 (Four years)
Project title: Evaluation of Use of Recycled Concrete Aggregate (RCA) as an Additive to Base Coarse/Subbase Material in Virginia Department of Transportation Projects
3. Duration: 2014-2016 (Two years)
Project title: Use of Recycled Materials as Mechanically Stabilized Earth (MSE) Retaining Wall Reinforced Backfills
2. Duration: 2014 (One year)
Project title: Instrumentation Grant for Bridge Abutment Constructed As Part of NCHRP Project
1. Duration: 2014 (One year)
Project title: Developing Laboratory Testing Capabilities to Evaluate Resilient Behavior of Soils

B. Geotechnical Engineering and Design Projects

Ash Basin Embankment Seep Investigation, MI 2010-2011
Project manager and principal investigator of a site investigation and slope stability. Wrote the proposal and won the work. Responsibilities include developing a site model, performing investigation to determine the source of the seep within the toe of the embankment, developing a mitigation and slope stability method.

Ash Basin Embankment Construction Oversight, MI 2010
Project manager of a construction project for slope rehabilitation. Wrote the proposal and won the work. The project includes reconstruction of 3,500 ft embankment by changing the side slopes from 2horizontal:1vertical to 2.5horizontal:1vertical. The slopes were reconstructed using off-site clay and included a mid-height drainage layer. Responsibilities included overseeing all of the construction activities including overseeing field personnel, client and contractor management, confirming that the construction is advanced in accordance with design, and

developing engineering solutions for unexpected field conditions. The construction started in June and was successfully completed in the beginning of November.

Ash Basin Embankment Stability, MI

2009-2011

Project manager and principal design engineer of a project on mitigating the surface sloughs observed on approximately 40% of an existing 3.5-mile long ash basin dam that is 40-ft high with 2horizontal:1vertical side slopes. Wrote the proposal and won the work. Manage budget, design and construction efforts, and client relationships. Supervise and mentor a team of junior engineers. Initial responsibilities included inspecting the dam, leading efforts on geotechnical site characterization, developing a Site model, writing assessment report and proposing three conceptual mitigation options. Current responsibilities include leading efforts on designing the selected mitigation option and developing design packages (instrumentation program and performing slope stability, hydrostatic uplift, and stormwater analyses) and construction packages (developing civil layout drawings, specifications, and construction quality assurance plan), and working with permitting agencies (Michigan Department of Natural Environmental Quality, Corps of Engineers, Monroe Drain Commissioner, and Monroe Charter Township). Construction started in summer of 2009 and will continue until 2013.

Site Evaluation Study, MI

2009

Co-project manager and principal investigator of a project on developing and evaluating alternatives for a future residual waste landfill foundation. Identified alternatives included a 300-acre farmed wetland and 400-acre 45-ft deep existing fly ash impoundment, with 30% ash-slurry and 70% ash fill. Wrote proposal, co-managed budget and client relationships, supervised and mentored team of junior engineers.

Sheet Pile Earth Retention System Design, IL

2009

Co-project manager and design engineer of a project on designing a 25 ft deep two-tier anchored sheet pile temporary excavation support system for major school project in downtown Chicago. Wrote the proposal and won the work. Responsibilities included co-managing budget, supervising and mentoring team of junior engineers, and client relationships. In addition, performed site characterization, design calculations, and developed construction and permit drawings.

Landslide Mitigation, PA

2008-2011

Task manager and design engineer of a project on mitigating a landslide that moved 500,000 cy of soil (largest landslide in PA over 40 years). Responsibilities include managing budget for tasks, supervising and mentoring team of junior engineers. In addition, perform detailed slope stability and back analyses to evaluate shear strength of displaced and undisplaced colluvial materials, constructability assessments for interim construction stages of the proposed remedial design, provide litigation support for cause report, develop mitigation options (i.e., slope unloading, regrading, dewatering, and two reinforced soil structures), and oversee part of the construction of the selected mitigation option.

Foundation Evaluation, Africa 2008-2009

Design engineer of a project on providing engineering services for a major LNG facility design and construction for a confidential client. Prepared calculation packages for evaluating settlement of recently placed sand fill prior to construction of foundation and evaluated capacity of constructed soil-mix columns for ground improvement and foundation support.

Soldier Beam and Lagging Earth Retention System Design, CA 2008

Design engineer of a project on designing 35 ft high three-tier tieback anchored soldier beam and lagging wall in downtown Los Angeles for a major school construction. Performed design calculations, developed construction and permit drawings, and provided technical support during construction.

Value Engineering and Construction Inspection, MI 2008

Provided value engineering for a micropile underpinning and jet-grouted column temporary shoring wall for excavating contaminated soils for industrial facility in western Michigan. Performed technical review of design and site visit for construction inspection.

Integrity Evaluation of an Existing Gabion Retaining Wall, PA 2007-2008

Assistant design engineer of a project on evaluating the integrity of 30-ft high gabion-faced MSE wall for a distribution center and providing opinion about its long-term stability. Performed detailed slope stability and reliability-based analyses to support lead design engineer's recommendations for long-term movement monitoring and stormwater control systems.

Soldier Beam and Lagging Earth Retention System Design, TX 2007

Assistant design engineer of a project on designing 25-ft deep temporary excavation support system design for major hospital expansion in Houston. Provided assistance with design analyses for the one- and two-tier tieback anchored soldier beam and lagging wall and a soil nail wall.

Evaluation of a New Drain Tube, MA 2005

Task manager and design engineer of a project on evaluating a new drain tube for exterior footing drain applications. Responsibilities include managing budget for tasks, reviewing building codes, Massachusetts Department of Transportation (MassDOT) specifications, International Code Council (ICC) codified test methods for drain pipes and providing a work plan to be presented to ICC to certify the use of this new drain.

C. Landfill Engineering/Remedial Design Projects*Landfill Feasibility Study on Canyon Like Geology, KY* 2010-2011

Project manager and design engineer of a project on evaluating the feasibility of a proposed coal combustion residual waste landfill to be situated over a 135-acre existing ash reservoir in Kentucky. Wrote the proposal and won the work. Responsibilities include managing budget, site characterization, writing a comprehensive fatal flow analyses report, and overseeing the efforts to develop conceptual site model and landfill layout and liquefaction analyses.

*Landfill Cover Evaluation, IL*

2006-2011

Task manager and design engineer of a project on designing and permitting a cover system for a Superfund landfill site. Responsibilities include managing budget for tasks, supervising and mentoring team of junior engineers. In addition, develop the equivalency of three different cover systems based on nine CERCLA remedy selection criteria as described in 40 CFR 300.430.f, design passive and active gas systems to characterize gas migration, develop clay borrow site, and design Illinois Environmental Protection Agency (IEPA) approved cover system. Cover system design includes global and veneer stability, stormwater and infiltration analyses.

Designing and Permitting Canyon-Like Residual Waste Landfill, OH

2006-2009

Co-project manager and principal design engineer of a project on designing and permitting a residual waste landfill on an old river bed within a 95-acre canyon-like topography (i.e., ~100 ft relief). Responsibilities included co-managing the budget, supervising and mentoring a team of junior engineers, and client relationships. In addition, lead the efforts for design calculations of the 300 ft high landfill (i.e., leachate and stormwater management, hydrostatic uplift, veneer stability, liquefaction, settlement, and static and seismic slope stability calculations), developed civil layouts, wrote specifications, CQA plan, and narratives to describe the work for permit application from Ohio Environmental Protection Agency (OEPA). Design permitted by OEPA and is ready for construction.

Designing and Permitting Residual Waste Landfill Over an Ash Pond, OH

2005-2007

Task manager and design engineer of a project on designing and permitting a residual waste landfill over an existing 65 ft deep 100-acre fly ash and minespoil reservoir. Responsibilities included managing budget for tasks and supervising and mentoring team of junior engineers. In addition, participated in geophysical site characterization using downhole S-wave survey to identify potential large void spaces within foundation strata, performed stability analyses including hydrostatic uplift, veneer stability, static and seismic stability, designed subsurface drainage system to convey water generated by consolidation of fly ash foundation, designed a 30 ft high geosynthetic reinforced MSE wall, participated in developing civil layouts for permitting and construction, and lead a clay borrow investigation.

Cover System Design for an Existing Municipal Waste Landfill, PA

2006

Design engineer and peer reviewer of a project on designing cover system for an existing municipal waste landfill. Developed construction bidding drawings based on Pennsylvania Department of Environmental Protection (PADEP) regulations for soil cover, stormwater conveyance, and on-site stockpile grading. In addition, peer reviewed existing design calculations.

Remediation of a Closed Landfill, IL

2004-2005

Design engineer and CQA manager of a project on developing a remedial design for a closed unlined landfill where leachate seeps were observed in the nearby drainage ditch. Developed a geotechnical and hydrogeological site model, designed a 450-ft long remedial trench drain and ditch bank slope stabilization, developed construction drawings, prepared engineer's cost estimates, wrote specifications and construction quality assurance (CQA) plan, and provided field services for quality control.

Gas Management and CQA of a Superfund Site, IL

2003-2005

Assistant design engineer and assistant CQA manager of a project on designing a cover system and providing CQA services for a 64-acre superfund landfill site located north of Chicago.

Assisted modifications to gas management design, documented and checked the quality of the cover system construction including quality and compaction of clay and vegetative soil covers, installation of geosynthetics including double sided geocomposite, geomembrane, geosynthetic clay liner, and geotextile, construction of gas collection system including installation of lateral solid and perforated gas collection lines, and construction of ~800 feet long and 15 feet deep slurry cut-off wall.

III. PUBLICATIONS

Citation indices determined from Google Scholar

Feb. 2021

All number of citations: 1664

H-index: 16 (*breakdown of each number of citations per article can be viewed at*
<https://scholar.google.com/citations?user=Ilr0xPcAAAAJ&hl=en>)

i10-index: 30 (*number of publications with at least 10 citations*)

A. Dissertation and Thesis

Tanyu, B. F. (2003) "*Working Platforms for Flexible Pavements Using Industrial By-Products*", Dissertation - University of Wisconsin-Madison, May.

Advisors: Professor Tuncer Edil, *Ph.D., P.E., D.GE, F.ASCE – Emeritus*

Professor Craig Benson, *Ph.D., P.E., D.GE, NAE, F.ASCE.*

(Currently in University of Virginia – Dean of School of Engineering)

Tanyu, B. F. (1999) "*Correlation of Gypsum Content in Soils of North Texas to Sulfate Induced Deformation of Road Subgrades*", Thesis - University of Texas-Arlington, May.

Advisor: Professor Burke Burkart, *Ph.D. – Emeritus*

B. Books/Government Manuals

5. **Tanyu, B. F.** and Abbaspour, A. (2020) "*Evaluation of Use of Crushed Hydraulic Cement Concrete (CHCC) as an Additive to Base Course/Subbase Material*", 83 pages. Virginia Transportation Research Council (VTRC), Report Number VTRC 21-R12, Virginia Department of Transportation, Charlottesville, VA.
4. Zornberg, J.G., Christopher, B.R., Leshchinsky, D., Han, J., **Tanyu, B.F.**, Morsy, A.M., Shen, P., Gebremariam, F.T., Jiang, Y., and Mofarraj, B. (2018) "*Defining the Boundary Conditions for Composite Behavior of Geosynthetic Reinforced Soil (GRS) Structures*", 997 pages. National Cooperative Highway Research Program (NCHRP), Project 24-41, Transportation Research Board, Washington DC.

3. **Tanyu, B. F.**, Sabatini, P. J., and Berg, R. R. (2008) *“Earth Retaining Structures-Load and Resistance Factor Design”*. A book specifically designed to be used to teach National Highway Institute (NHI) Course Number 132036, 792 pages. Document No.: FHWA-NHI-05-046 (Supersedes 2005 version), National Highway Institute, Federal Highway Administration, Washington, D.C.
2. Sabatini, P. J. and **Tanyu, B. F.** (2006), *“Micropile Design and Construction”*. A book specifically designed to be used to teach NHI Course Number 132078, 452 pages. Document No.: FHWA-NHI-05-039, National Highway Institute, Federal Highway Administration, Washington, D.C.
1. **Tanyu, B. F.**, Sabatini, P. J., and Berg, R. R. (2005) *“Earth Retaining Structures-Allowable Stress Design”*. A book specifically designed to be used to teach National Highway Institute (NHI) Course Number 132036, 679 pages. Document No.: FHWA-NHI-05-046, National Highway Institute, Federal Highway Administration, Washington, D.C.

C. Articles in Preparation for Peer-Reviewed Journals

5. Using Force Sensing Resistor to Evaluate Lateral Earth Pressure Distribution Between Closely Spaced Geosynthetic Reinforcements
4. Characteristic behavior of cross-anisotropic deposits of granular materials
3. Use of C4.5 Machine Learning Algorithm to Predict Rainfall Induced Landslides
2. Evaluation of Long-term Performance of Bituminous Liner Materials in Salt Pond
1. Hydraulic Conductivity of Geosynthetic Clay Liner Overlaps

D. Articles in-Review in Peer-Reviewed Journals

(* Student co-author and ** visiting faculty co-author both advised by me)

4. Ullah, S.*, **Tanyu, B. F.**, Dawson, A. (2021) “Reclaimed Asphalt Pavement (RAP) As An Unbound Base Course Material: A Mechanistic Design Approach Based on Multi-Stage Repeated Load Triaxial Tests” Submitted for review.
3. Yavuz, B., Aboubacar, M. H., **Tanyu, B. F.**, and Sari, S. A. (2020) “Investigation of the Quality of Armour Stones Used in Rubble Mound Breakwater in Guzelbahce (Izmir), Turkey”, Submitted for review.
2. Gu., M., Collin, J., Han, J., Zhang, Z., **Tanyu, B.F.**, Leschinsky, D., Ling, H.I., Rimoldo, P. “Pseudo-static Behavior of Reinforced Gabion Walls with Large Reinforcement Spacing”. Submitted for review.

1. Soleimanbeigi, A., Ozocak, A., Li, B., Akmaz, E., Dayioglu, A. Y., **Tanyu, B. F.**, Aydilek, A. H., and Likos, W. J. (2020) “*Mechanical and Hydraulic Compatibility of RAP with Geosynthetics Used in MSE Walls*”, Submitted for review.

E. Articles Published in Peer-Reviewed Journals

(* GMU student advised by me and ** Student co-author advised by others)

(*** Visiting faculty co-author advised by me)

40. Abbaspour, A.* and **Tanyu, B. F.** (2021) “Use of Image Analysis to Quantify the Chemical Clogging Phenomenon and Loss of Geotextile Serviceability in Subdrains Placed Adjacent to Recycled Concrete Aggregate”, *Geosynthetics International Journal*, Institution of Civil Engineers Publication (UK), In-press.
39. Abbaspour, A.* and **Tanyu, B. F.** (2020) “Effects of Field Stockpiling on Leaching Calcareous Constituents From Recycled Concrete Aggregate To Be Used As Unbound Base Course/Subbase Material”, *Journal of Innovative Transportation*, In-press.
38. Gebremariam, F.*, **Tanyu, B. F.**, Guler, E., Urgessa, G.S., and Shen, P. (2020) “Numerical Investigation of Reinforced Soil Structures with GRS-IBS Design Features”, *Geosynthetics International Journal*, Institution of Civil Engineers Publication (UK), In-press, <https://doi.org/10.1680/jgein.20.00031>
37. Ullah, S.*, **Tanyu, B. F.**, Zainab B.* (2020) “Development of an artificial neural network (ANN)-based model to predict permanent deformation of base course containing reclaimed asphalt pavement (RAP)”, *Journal of Road Materials and Pavement Design*, Taylor and Francis Publication (UK) <https://doi.org/10.1080/14680629.2020.1773304>
36. Morsy, A., Zornberg, J., Leshchinsky, D., Christopher, B., Han, J., **Tanyu, B. F.** (2020) “Experimental Evaluation of The Interaction Among Neighboring Reinforcements in Geosynthetic- Reinforced Soils”, *Journal of Geotechnical and Geoenvironmental Engineering*, American Society of Civil Engineers Publication (US), [https://doi.org/10.1061/\(ASCE\)GT.1943-5606.0002365](https://doi.org/10.1061/(ASCE)GT.1943-5606.0002365)
35. Gebremariam, F*, **Tanyu, B. F.**, Christopher, B., Leshchinsky, D., Han, J., Zornberg, G. (2020) “Evaluation of Vertical Stress Distribution in Field Monitored GRS-IBS Structure”, *Geosynthetics International Journal*, Institution of Civil Engineers Publication (UK), Volume 27, No. 4, pp. 414-431, <https://doi.org/10.1680/jgein.20.00004>
34. Gebremariam, F.*, **Tanyu, B. F.**, Christopher, B., Leshchinsky, D., Zornberg, J. G., Han, J. (2020) “Evaluation of Required Connection Load in GRS-IBS Structures under Service Loads”, *Geosynthetics International Journal*, Institution of Civil Engineers Publication (UK), In-press, <https://doi.org/10.1680/jgein.20.00022>

33. Akmaz, E.*, Ullah, S.*, **Tanyu, B.F.**, Guler, E.F. (2020) “*Construction Quality Control for Unbound Base Reclaimed Asphalt Aggregate Using Light Weight Deflectometer*”, Transportation Research Record, National Research Council (US) <https://doi.org/10.1177/0361198120934473>
32. Abbaspour, A. and **Tanyu, B. F.** (2020) “*CO₂ Sequestration by Carbonation Processes of Rubblized Concrete at Standard Conditions and the Related Mineral Stability Diagrams*”, Journal of Sustainable Chemistry & Engineering, ACS Publication (US), Volume 8, Issue 17, pp. 6647 - 6656 <https://doi.org/10.1021/acssuschemeng.9b07690>
31. Shen, P., Han, J., Zornberg, J. G., **Tanyu, B. F.**, Christopher, B. R., Leshchinsky, D. (2020) “Responses of Geosynthetic-Reinforced Soil (GRS) “Abutments Under Bridge Slab Loading: Numerical Investigation”, Computers and Geotechnics Journal, Engineers Publication (UK), Volume 123. <https://doi.org/10.1016/j.compgeo.2020.103566>
30. Ullah, S.* and **Tanyu, B. F.** (2019) “*Methodology to Develop Design Guidelines to Construct Unbound Base Course with Reclaimed Asphalt Pavement (RAP)*”, Journal of Construction and Building Materials, Elsevier Publication (US), Volume 223, pp. 463-476. <https://doi.org/10.1016/j.conbuildmat.2019.06.196>
29. Soleimanbeigi, A., **Tanyu, B. F.**, Aydilek, A. H., Florio, P. , Abbaspour*, A. Dayioglu, A. Y., and Likos, W. J. (2019) “*Evaluation of Recycled Concrete Aggregate for Geosynthetic-Reinforced MSE Walls*” Geosynthetics International Journal, Institution of Civil Engineers Publication (UK), Volume 26, Issue 4, pp. 396-412, <https://doi.org/10.1680/jgein.19.00025>
28. Shen, P., Han, J., Zornberg, J. G., Morsy, A. M., Leshchinsky, D., **Tanyu, B. F.**, Xu, C. (2019) “*Two and Three-Dimensional Numerical Analyses of Geosynthetic-Reinforced Soil (GRS) Piers*” Journal of Geotextiles and Geomembranes, Elsevier Publication (US), Volume 47, Issue 3, pp. 352-368. <https://doi.org/10.1016/j.geotexmem.2019.01.010>
27. Ullah, S.*, **Tanyu, B. F.**, Guler, E. F., Hoppe, E. J., Akmaz, E.* (2019) “*Evaluation of the Long-Term Performance of Woven Geotextile Used Between Base Course and Subgrade of a Paved Road*” Transportation Research Record, National Research Council (US), <https://doi.org/10.1177/0361198119827567>
26. Jiang, Y.**, Han, J., Zornberg, J., Parsons, R., Leshchinsky, D., and **Tanyu B. F.** (2019) “Numerical Analysis of Field Geosynthetic-Reinforced Retaining Walls with Secondary Reinforcement” Journal of Geotechnique, ICE Publication (UK), Volume 69, Issue 2, pp. 122-132, <https://doi.org/10.1680/jgeot.17.P.118>

25. Abbaspour, A.* and **Tanyu, B. F.** (2019) "Tufa Precipitation from Recycled Concrete Aggregate (RCA) over Geotextile: Mechanism, Composition, and Affecting Parameters" *Journal of Construction and Building Materials*, Elsevier Publication (US), Volume 196, pp. 317-329, <https://doi.org/10.1016/j.conbuildmat.2018.10.146>
24. Ullah, S.*, **Tanyu, B. F.**, and Hoppe, E. J. (2018) "*Optimizing the Gradation of Fine Processed Reclaimed Asphalt Pavement and Aggregate Blends for Unbound Base Courses*" *Transportation Research Record*, National Research Council (US) <http://journals.sagepub.com/doi/10.1177/0361198118758683>
23. Abbaspour, A.*, **Tanyu, B. F.**, Aydilek, A., Dayioglu, A.** (2018) "*Methodology to Evaluate Hydraulic Compatibility of Geotextile and RCA in Underdrain Systems*" *Geosynthetics International Journal*, Institution of Civil Engineers Publication (UK), Vol. 25, No. 1, pp. 67–84, doi: 10.1680/jgein.17.00034
22. **Tanyu, B. F.**, Yavuz, A. B.***, and Ullah, S.* (2017) "*A Parametric Study to Improve Suitability of Micro-Deval Test to Assess Unbound Base Coarse Aggregates*" *Journal of Construction and Building Materials*, Elsevier Publication (US), Volume 37, pp. 328-338, doi: 10.1016/j.conbuildmat.2017.04.173
21. Gu, M.**, Collin, J. G., Han, J., Zhang, Z., **Tanyu, B. F.**, Leschinsky, D., Ling, H. I., and Rimoldi, P. (2017) "*Numerical Analysis of Instrumented Mechanically Stabilized Gabion Walls with Large Vertical Reinforcement Spacing*" *Journal of Geotextiles and Geomembranes*, Elsevier Publication (US), Volume 45, Issue 4, pp. 294-306, doi: 10.1016/j.geotexmem.2017.04.002.
20. Borga, M.*, **Tanyu, B. F.**, Ferreira, C. Garzon, J.**, and Onurfrychuk, M.* (2017) "*A Geospatial Framework to Estimate Depth of Scour under Buildings Due To Storm Surge in Coastal Areas*" *Journal of Natural Hazards*, Springer Publication (UK), Volume 87, Issue 3, pp. 1285-1311, doi: 10.1007/s11069-017-2817-3
19. Yavuz, A. B., Atay, S., Colak, M., and **Tanyu, B. F.** (2017) "*Durability Assessments of Rare Green Andesites Widely Used as Building Stones in Buca (Izmir), Turkey*", *Journal of Environmental Earth Sciences*, Springer Publication (UK), Volume 76, Issue 5, Article No. 211, pp. 1-15, doi: 10.1007/s12665-017-6531-y
18. Cook, C.*, **Tanyu, B. F.**, Yavuz, A. B.*** (2017) "*Effect of Particle Shape on Durability and Performance of Unbound Aggregate Base*", *Journal of Materials in Civil Engineering*, American Society of Civil Engineers (ASCE) Publication (US), Volume 29, Issue 2, pp. 04016221-1 thru 04016221-12, doi: 10.1061/(ASCE)MT.1943-5533.0001752
17. Abbaspour, A.*, **Tanyu, B. F.**, and Cetin, B. (2016) "*Impact of Aging on Leaching Characteristics of Recycled Concrete Aggregate*", *Journal of Environmental Science and Pollution Research*, Springer Publication (UK), Volume 23, Issue 20, pp. 20835-20852, doi: 10.1007/s11356-016-7217-9

16. Bestgen, J.O.** , Cetin, B., **Tanyu, B.F.** (2016) "*Effects of Extraction Methods and Factors on Leaching of Metals from Recycled Concrete Aggregates*", Journal of Environmental Science and Pollution Research, Springer Publication (UK), Volume 23, Issue 13, pp. 12983-13002, doi: 10.1007/s11356-016-6456-0
15. Yavuz, A. B., Akal, C., Turk, N., Colak, M., and **Tanyu, B. F.** (2015) "*Investigation of Discrepancy Between Engineering Properties and Durability of the Alacati Tuffs Used in Constructing Buildings in Western Turkey*", Journal of Construction and Building Materials, Elsevier Publication (US), Volume 93, pp. 439-448, doi:10.1016/j.conbuildmat.2015.06.017.
14. Schnebele, E.** , **Tanyu, B.F.**, Cervone, G., and Waters, N. (2015) "*Review of Remote Sensing Methodologies for Pavement Management and Assessment*", European Transport Research Review, Springer Publication (UK), Volume 7, Issue 2, pp. 1-19, doi:10.1007/s12544-015-0156-6.
13. Leshchinsky, B., Olsen, M., and **Tanyu, B.F.** (2015) "*Contour Connection Method for Automated Identification and Classification of Landslide Deposits*", Journal of Computers and Geosciences, Elsevier Publication (US), Volume 74, pp. 27-38, doi:10.1016/j.cageo.2014.10.007.
12. Ramanathan, R.** , Aydilek, A., and **Tanyu, B.F.** (2015) "*Development of a GIS-Based Failure Investigation System for Highway Soil Slopes*", Journal of Frontiers of Earth Science, Springer Publication (UK), Volume 9, Issue 2, pp. 165-178, doi:10.1007/s11707-014-0485-0.
11. Awad, M.I.* , and **Tanyu, B.F.** (2014) "*Laboratory Evaluation of Governing Mechanism of Frictionally Connected MSEW Face and Implications on Design*", Journal of Geotextiles and Geomembranes, Elsevier Publication (US), Volume 42, Issue 5, pp. 468-478, doi:10.1016/j.geotexmem.2014.07.006.
10. DeJong, J, Martinez, B., Ginn, T.R., Hunt, C, Major, D., and **Tanyu, B. F.** (2014) "*Development of Scaled Repeated Five-Spot Treatment Model for Examining Microbial Induced Calcite Precipitation Feasibility in Field Applications*". *Geotechnical Testing Journal*, American Society of Testing and Materials (ASTM) International (US), Volume 37, Issue 3, pp. 1-13, doi:10.1520/GTJ20130089. (*See Section II.D. ASTM Geotechnical Testing Journal Paper Award*)
9. Guney, Y., Cetin, B. Aydilek, A.H., **Tanyu, B.F.** and Koparal, A.S. (2014) "*Utilization of Sepiolite Materials as a Bottom Liner Material in Solid Waste Landfills*", Waste Management, Elsevier Publication (US), Volume 34, No. 1, pp. 112-124, doi:10.1016/j.wasman.2013.10.008.
8. **Tanyu, B.F.**, Aydilek, A.H., Lau, A.W., Edil, T.B., and Benson, C.H. (2013) "*Laboratory Evaluation of Geocell-Reinforced Gravel Subbase Over Poor*

- Subgrades*", Geosynthetics International Journal, Institution of Civil Engineers Publication (UK), Volume 20, Issue 2, pp. 47-61, doi:10.1680/gein.13.00001.
7. DeJong, J.T., Soga, K.S., Kavazanjian, E., Burns, S., van Paassen, L., Fragazsy, R., Al Qabany, A., Aydilek, A.H., Bang, S.S., Burbank, M., Caslake, L., Chen, C.Y., Chhu, J., Ciiurli, S., Fauriel, S., Filet, A.E., Hamdan, N., Hata, T., Inagaki, Y., Jefferis, S., Kuo, M., Larrahondo, J., Manning, D., Martinez, B., Mortensen, B., Nelson, D., Palomino, A., Renforth, P., Santamarina, J.C., Seagren, E.A., **Tanyu, B.F.**, Tsesarsky, M., and Weaver, T. (*alphabetical order after Fragazsy. R.*) (2013) "*Biogeochemical Processes and Geotechnical Applications: Progress, Opportunities, and Challenges*", Geotechnique, Institute of Civil Engineers (UK), Volume 63, Issue. 4, pp. 287-301, doi:10.1680/geot.SIP13.P.017.
 6. Martinez, B. C., Dejong, J.T., Mortensen, B.M., Barkouki, T.H., Ginn, T.R., Hunt, C., **Tanyu, B.F.**, Major, D. (2013) "*Experimental Optimization of Microbial Induced Carbonate Precipitation for Soil Improvement*", Journal of Geotechnical and Geoenvironmental Engineering, American Society of Civil Engineers (US), Volume 139, No. 4, pp. 587-598, doi:10.1061/(ASCE)GT.1943-5606.0000787.
 5. Kim, W. H., Edil, T. B., Benson, C. H., and **Tanyu, B. F.** (2006) "*Deflection of Prototype Geosynthetic-Reinforced Working Platforms Over Soft Subgrade*", Journal of Transportation Research Record, National Research Council (US), Volume 1975, pp. 137-145, doi:10.3141/1975-17.
 4. **Tanyu, B. F.**, Edil, T. B., Benson, C. H and Kim, W. H. (2005) "*Development of Methodology to Include Structural Contribution of Alternative Working Platforms in Pavement Structure*", Journal of Transportation Research Record, Volume 1936, National Research Council (US), pp. 70-77, doi:10.3141/1936-09.
 3. Kim, W. H., Edil, T. B., Benson, C. H and **Tanyu, B. F.** (2005) "*Structural Contribution of Geosynthetic-Reinforced Working Platforms in Flexible Pavement*", Journal of Transportation Research Record, National Research Council (US), Volume 1936, pp. 43-50, doi:10.3141/1936-06.
 2. **Tanyu, B. F.**, Benson, C. H, Edil, T. B. and Kim, W. H. (2004) "*Equivalency of Crushed Rock and Three Industrial By-Products For Working Platforms During Pavement Construction*", Journal Transportation Research Record, National Research Council (US), Volume 1874, pp. 59-69, doi:10.3141/1874-07.
 1. Edil, T. B., Benson, C. H., Bin-Shafique, M. S., **Tanyu, B. F.**, Kim, W. H., and Senol, A. (2002) "*Field Evaluation of Construction Alternatives for Roadway Over Soft Subgrade*", Journal of Transportation Research Record, National Research Council (US), Volume 1786, pp. 36-48, doi:10.3141/1786-05.



F. Articles Published in Peer-Reviewed Conference Proceedings

(* GMU student advised by me)

16. Ullah, S. * and **Tanyu, B. F.** (2020) “*Effect of Variation in Moisture Content on the Mechanical Properties of Base Course Constructed with RAP-VA Blends*”, Geocongress 2020, American Society of Civil Engineers (ASCE), Minneapolis, MN, February.
15. Abbaspour, A.* and **Tanyu, B.F.** (2019) “*Affecting Parameters on Tufa Precipitation from Recycled Concrete Aggregate*”, Environmental Geotechnology, Recycled Waste and Sustainable Engineering, 2nd International Conference Proceedings, Chicago, IL, June 17
This article recognized during the conference as “Honorable Mention” status.
14. Abbaspour, A.* and **Tanyu, B.F.** (2019) “*Evaluation of Hydraulic Compatibility of Geotextile and RCA in Underdrain Systems Under Turbulent Flow Regime*”, Geosynthetics Conference Compendium, International Geosynthetics Society, February.
13. Shen, P., Han, J., Zornberg, J. G., **Tanyu, B. F.**, and Leshchinsky, D. (2018) “*Three-Dimensional Numerical Analysis of Performance of a Geosynthetic-Reinforced Soil Pier*”, Proceedings of GeoShanghai International Conference, pp. 374-381, May.
12. Ullah, S.*, **Tanyu, B. F.**, and Hoppe, E. J. (2018) “*Optimizing the Gradation of Fine Processed Reclaimed Asphalt Pavement and Aggregate Blends for Unbound Base Courses*” Transportation Research Board Compendium, National Research Council (US), January.
11. Morsy, A.M., Zornberg, J.G., Christopher, B.R., Leshchinsky, D., **Tanyu, B.F.**, and Han, J. (2017) “*Experimental Approach to Characterize Soil-Reinforcement Composite Interaction*” In Proceedings of the 19th International Conference on Soil Mechanics and Geotechnical Engineering (19th ICSMGE), International Society for Soil Mechanics and Geotechnical Engineering (ISSMGE), September 17-22, Seoul, Korea, pp. 451-454.
10. Jiang, Y., Han, J., Zornberg, J. G., Leshchinsky, D., Christopher, B. R., and **Tanyu, B. F.** (2017) “*Numerical Evaluation of Boundary Effects on Interaction between Geosynthetic Reinforcement and Backfill*”, Geotechnical Frontiers, American Society of Civil Engineers Conference, Geotechnical Special Publication (GSP) 280, pp. 299-305, March.
9. Abbaspour, A.*, **Tanyu, B. F.**, Cetin, B., and Brown, M. C. (2016) “*Stockpiling Recycled Concrete Aggregate: Changes in Physical Properties and Leachate Characteristics Due to Carbonation and Aging*”, Geo-Chicago-Sustainability, Energy, and the Geoenvironment, American Society of Civil Engineers Conference, Geotechnical Special Publication (GSP) 272, pp. 73-82, August.

8. **Tanyu, B. F.**, Abbaspour, A.*, Collin, J. G., Leshchinsky, D., Han, J., Ling, H.I., and Rimoldi, P. (2016) "*Case Study: Instrumentation of a Hybrid MSE Wall System With Up To 2 m Vertical Spacing Between Reinforcements*", 3rd Pan-American Conference on Geosynthetics, GeoAmericas, Volume 2, pp. 1481-1490, April.
7. Xu, L.** , Ling, H.I., Colin, J. G., Han, J., Leshchinsky, D., **Tanyu, B. F.**, Li, L., Kawabata, T, and Rimoldi, P. (2016) "*Centrifugal Modeling of Gabion Facing Geosynthetic Reinforced Soil Retaining Walls*", 3rd Pan-American Conference on Geosynthetics, GeoAmericas, Volume 1, pp. 865-886, April.
6. Bozok, O, **Tanyu, B.F.**, Sabatini, P., and Seymour, J.P. (2015) "*Reliability Analysis of an Existing Ash Basin Embankment*", World of Coal Ash (WOCA) Conference, Nashville, Tennessee, Article No. 33, pp. 1-12, May, open access: <http://www.flyash.info/2015/033-bozok-2015.pdf>
5. **Tanyu, B.F.**, Neal, W., Seymour, J.P., Bodine, D., Bozok, O. (2011) "*Case Study: Stability of Two Horizontal to One Vertical Embankment*", American Society of Civil Engineers, Geo-Frontiers Conference, Dallas, Texas, pp. 3629-3638, March.
4. DeJong, J.T., Martinez, B.M., Mortensen, D.C., Nelson, D.C., Waller, J.T., Weil, M.H., Ginn, T.R., Weathers, T., Barkouki, T., Fujita, Y., Redden, G., Hunt, C., Major, D., **Tanyu, B.** (2009) "*Upscaling of Bio-Mediated Soil Improvement*", 17th International Conference on Soil Mechanics and Geotechnical Engineering, Alexandria, Egypt, Vol. 3, pp. 2300-2303, October.
3. Bodine, D, **Tanyu, B.F.**, Sabatini, P.J., Ajlouni, M.A., and Limes, D.E. (2009) "*Design and Permitting of a Residual Waste Landfill Over An Existing Ash Reservoir*", American Society of Civil Engineers, International Foundation Congress and Equipment Expo, Orlando, FL, pp. 496-503, March.
2. Edil, T. B., Kim, W. H., Benson, C. H., and **Tanyu, B. F.** (2007) "*Contribution of Geosynthetic Reinforcement to Granular Layer Stiffness*", American Society of Civil Engineers, Geotechnical Special Publication on Soil and Material Inputs for Mechanistic-Empirical Pavement Design, GeoDenver, Geotechnical Special Publication 169, pp. 1-10, February.
1. **Tanyu, B. F.**, Kim, W. H., Edil, T. B. and Benson, C. H. (2003) "*Comparison of Laboratory Resilient Moduli with Back-Calculated Elastic Moduli from Large-Scale Model Experiments and FWD Tests on Granular Materials*", Resilient Modulus Testing for Pavement Components, STP 1437, G. Durham, A. Marr, and W. De Groff, eds., American Standards and Testing Material, West Conshohocken, PA, pp. 191-208.

G. Other Publications – Not Peer-Reviewed

(*: GMU student advised by me)

5. **Tanyu, B.** (2017) “A permanent fill-in?” Invited to draft an article on testing use of recycled concrete for Mechanically Stabilized Earth backfill. Published in Roads and Bridges Magazine, February Issue. <https://www.roadbridges.com/permanent-fill>
4. Collin, J.G., Abbaspour, A.*, Gu, M., Han, J., Kawabata, T., Leshchinsky, D., Li, L., Ling, H.I., **Tanyu, B.**, and Xu, L. (2016) (*alphabetical order after Collin J.*) “*Reinforcement Vertical Spacing Research*”, a summary of research report prepared for Maccaferri by the Collin Group.
3. Martin, J., Benson, C., Chapman, M., Eddy, M., Green, R., Kammerer, A., Lasley, S., Lazarte, C., Nikolau, S., **Tanyu, B.**, and Tuttle, M. (2011) (*alphabetical order after Martin. J.*) “Geotechnical Reconnaissance of the 2011 Central Virginia Earthquake” prepared by Geotechnical Extreme Event Reconnaissance Team (GEER), Report No. GEER-026, doi:10.18118/G6W88F
http://www.geerassociation.org/index.php/component/geer_reports/?view=geerreports&id=38 (accessed in August 2016)
2. Baker, G., Heslinga, D., Gold, M., Huff, L., Israel, R., Lazzara, J., McDonald, D., Mesha, P., Payonk, J., Staron, A., Stirk, M., **Tanyu, B. F.**, Williams, C. (2010) (*alphabetical order*) “*I-LAST: Illinois Livable and Sustainable Transportation Rating System and Guide*”, prepared for Illinois Department of Transportation, January, <http://www.eastsidehighway.com/wp-content/uploads/2014/05/I-LAST-Version-2-DRAFT.pdf> (accessed March 2016).
1. Edil, T. B., Benson, C. H., Kim, W. K., and **Tanyu, B. F.** (2005) “*Development of Methodology to Include Strength Contribution of Select Subgrade Materials in Pavement Structure*”, prepared for Wisconsin Highway Research Program, December, <http://wisdotresearch.wi.gov/wp-content/uploads/03-12-strengthcontribution-f1.pdf> (accessed September 2015).

IV. INVITED LECTURES/PRESENTATIONS/INTERVIEWS AND WORKSHOPS

45. **Tanyu, B. F.** (2020) “*Construction Quality Control of Unbound Base Course Using Light Weight Deflectometer: An Example with RAP*”, Mid-Atlantic Quality Assurance Workshop, Williamsburg, VA, February 12.
44. **Tanyu, B. F.** (2019) “Use of Recycled Concrete Aggregate in Geotransportation Infrastructures with Geosynthetics”, 8th International Geosynthetics Conference, Bogazici University, Istanbul – TURKEY, May 16 -17.

43. Abbaspour, A. and Tanyu, B. F. (2019). “*Affecting Parameters on Tufa Precipitation from Recycled Concrete Aggregate*”, Transportation Research Board Standing Committee on Geo-Environmental Processes (AFP40), TRB 98th Annual Meeting, Washington, D.C. January 13, Invited co-speaker.
42. Tanyu, B. F. (2018) “*Evaluation of Using Reclaimed Asphalt Pavement (RAP) As Unbound Base Aggregate Layer*”, Invited speaker, Virginia Asphalt Conference and Expo, Virginia Asphalt Association, Richmond-VA, December 5.
41. Tanyu, B. F. (2018) “*Potential Considerations When Placing Recycled Concrete Aggregate Adjacent to Geotextiles*”, Invited speaker, Huesker Inc., Charlotte-N.C., October 18.
40. Tanyu, B. F. (2018) “*Evaluation of Using Recycled Concrete Aggregate in Transportation Infrastructures with Geotextile Components*”, Invited speaker, 97th Annual Transportation Research Board Meeting, Session 814: Characterization of Alternative Aggregates, January 10.
39. Tanyu, B. F. (2018) “*Effects of Different Sample Preparation Methods to the Performance of Aggregates Created from Blending Reclaimed Asphalt Pavement (RAP) with Virgin Aggregate*”, Invited speaker, 97th Annual Transportation Research Board Meeting, AFS70 Aggregates Committee Meeting, January 8.
38. Soleimanbeigi, A., Likos, W., Tanyu, B. F., Aydilek, A., Abbaspour, A., and Dayioglu, A. Y. (2017) “*Hydraulic and Mechanical Properties of Recycled Concrete Aggregate Reinforced with Geosynthetics*”, 7th International Geosynthetics Conference, Bogazici University, Istanbul – TURKEY, May 11 -12, Invited co-speaker.
37. Tanyu, B. F. (2017) “*Use of Recycled Concrete As An Alternative Aggregate*”, 4th International Stone Congress, Izmir – TURKEY, March 20 – 25,
See also Section E.
36. Tanyu, B. F. (2017) “*Use of Recycled Concrete Aggregate as Backfill to Construct Mechanically Stabilized Earth Walls*”, Invited speaker by AFP10 Committee at the Transportation Research Board Annual Meeting, Washington, DC, January 9.
35. Tanyu, B. F. (2016) “*Use of Recycled Concrete Aggregate in Geotransportation Applications*”, Invited attendee and speaker, Third U.S.-Japan Geoenvironmental Engineering Workshop, American Society of Civil Engineers, Chicago, IL, August 14.
34. Tanyu, B. F. (2016) “*Laboratory Evaluation of Geocell-Reinforced Gravel Subbase Over Poor Subgrades*”, Invited presenter for the Paper’s with Award Session, GeoAmericas Conference, Miami, FL, April 11.
(This is the presentation of the article listed in Section II.A.v.8)

33. **Tanyu, B. F.** (2016) *"Recycled Materials in Geo-Engineering and Transportation"*, Invited speaker, National Capital Section Meeting, American Society of Civil Engineers, Washington, D.C., March 31.
32. **Tanyu, B.F.** (2016) *"Use of Recycled Concrete as Base Course"*, Workshop 128-Use of Byproduct Fines and Recycled Materials for Sustainable Construction of Transportation Infrastructure, Transportation Research Board of National Academies, 95th Annual Meeting, Washington, D.C., January 10.
31. **Tanyu, B. F.** (2015) *"Effective Use of Back Analyses For Landslide Assessment and Rehabilitation"*, Invited presenter for American Society of Civil Engineers, George Mason Student Chapter, Fairfax, VA, November 3.
30. **Tanyu, B.F.** (2015) *"Use and Design with Geosynthetics"*, Attendee, Educational workshop organized by International Geosynthetics Society (IGS), North American Chapter (NAGS), Austin, TX, July 28-29.
(The cost of this trip is paid by IGS-NAGS as listed in Section C – Travel Grants)
29. **Tanyu, B. F.** (2015) *"LRFD Design for Earth Retaining Structures"*, Invited lecturer, National Highway Institute – Short Course, Hosted by CADOT, Course No.: 132036, Session No.: 20150921, Sacramento, CA, June 23-25.
28. **Tanyu, B. F.** (2015) *"GMU Sustainability/Smart Ground"* Invited attendee, Round Table Discussion with Fairfax City officials, Northern Virginia Regional Commission Director, Mayor of City of Bottrop-Germany, and GMU Faculty from Geography Dept., invited by Ms. Rita Rowand – GMU Global Strategy Office Program Manager, June 8.
27. **Tanyu, B. F.** (2015) *"Sustainable Design Practices in Geo-Transportation"*, Invited presenter, Mason Earth Day Talks, Center for Ocean-Land-Atmosphere Studies, George Mason University, invited by Jim Kinter – Director, May 22.
26. **Tanyu, B. F.** (2015) *"Research Development in International Platform and Information on Sustainable Geotransportation Infrastructure Research Group in George Mason"*, Invited presenter, Office of Global Strategy at George Mason University, Fairfax, VA, invited by Ms. Rita Rowand – Program Manager, April 2.
25. **Tanyu, B. F.** (2015) *"Engineering Solutions That Support Resilient Infrastructure"*, Interviewed by Ms. Holly O'Dell, (holly@hardinb2b.com), Associate at Hardin Business Communications for an article written for Engineering360 website on *Engineering Solutions That Support Resilient Infrastructure*, Article appeared on March 16.
24. **Tanyu, B. F.** (2015) *"Can a Rating System Ensure Long-Term Infrastructure Sustainability?"*, Interviewed by Ms. Holly O'Dell, (holly@hardinb2b.com),

Associate at Hardin Business Communications for an article written for Engineering360 website on *Can A Rating System Ensure Infrastructure Sustainability?*, Article appeared on January 12.

23. **Tanyu, B. F.** (2014) "*LRFD Design for Earth Retaining Structures*", Invited lecturer, National Highway Institute – Short Course, Hosted by NJDOT, Course No.: 132036, Session No.: 20090368, Trenton, NJ, December 2-4.
22. **Tanyu, B. F.** (2014) "*Use of Recycled Concrete as a Base Course Aggregate in Conjunction with Geotextile Underdrain Systems*", Invited presenter, Virginia Polytechnic Institute, Department of Civil and Environmental Engineering, Blacksburg, VA, November 12.
21. **Tanyu, B. F.** (2014) "*Use of Gradient Ratio Tests to Evaluate Clogging Potential of Typical Filter Fabrics*", Invited presenter, Virginia Center for Transportation Innovation and Research, Virginia Department of Transportation, Geotechnical Research Advisory Committee Meeting, Charlottesville, VA, October 22.
20. **Tanyu, B. F.** (2014) "*Design of Anchored Externally Stabilized Earth Retaining Structure*", Invited lecturer, American Society of Civil Engineers - Short Course on Earth Retaining Structures, Baltimore, MD, October 16-17.
19. Leshchinsky, B., **Tanyu, B.F.** and Olsen, M (2014) "*Detecting Landslide Deposits*", Invited Presentation, Federal Highway Administration, Bridge and Geotechnical Engineering Division, Washington, DC, October 10.
18. **Tanyu, B. F.** (2014) "*Effects of Particle Shape on Performance of Road Base Aggregates in Light of New MEPDG Pavement Design Guidelines*", Invited speaker, Schnabel Engineering, Rockville, MD, May 8.
17. **Tanyu, B. F.** (2014) "*LRFD Design for Earth Retaining Structures*", Invited lecturer, National Highway Institute – Short Course, Hosted by ILDOT, Course No.: 132036, Session No.: 20090368, Springfield, IL, June 11-13.
16. **Tanyu, B. F.** (2014) "*Geosynthetics – Yesterday, Today, and in the Future*", Invited moderator, Transportation Research Board Discussion Panel by Barry Christopher, Mark Wayne, Sam Allen, Ryan Berg, Daniel Alzamora, and David Suits, Washington D.C., January 13.
15. **Tanyu, B. F.** (2013) "*Design and Construction of Mechanically Stabilized Earth Walls*", Invited lecturer, American Society of Civil Engineers - Short Course on Earth Retaining Structures, Pittsburgh, PA, November 7-8.
14. **Tanyu, B. F.** (2013) "*Evaluation of Use of Recycled Concrete As An Additive To Base Coarse*", Invited speaker, Virginia Center for Transportation Innovation and Research, Virginia Department of Transportation, Geotechnical Research Advisory Committee Meeting, Charlottesville, VA, November 6.

13. **Tanyu, B.F.** (2013) "*Corrosion Monitoring and Performance of MSE Reinforcements*", Invited moderator, Transportation Research Board Webinar by Fishman K. and Hidden, S., August 29.
12. **Tanyu, B. F.** (2013) "*Design and Construction of Nongravity Cantilever Earth Walls*", Invited lecturer, American Society of Civil Engineers - Short Course on Earth Retaining Structures, Washington, D.C., June 6-7.
11. **Tanyu, B. F.** (2013) "*Design of Anchored Externally Stabilized Earth Retaining Structures*", Invited lecturer, U.S. Department of Transportation, Arlington, VA, May 21.
10. **Tanyu, B. F.** (2013) "*LRFD Design for Earth Retaining Structures*", Invited lecturer, National Highway Institute – Short Course, Hosted by PennDOT, Course No.: 132036, Session No.: 20090368, Allentown, PA, March 26-28.
9. **Tanyu, B.F.** (2013) "*What Does Sustainability Mean in Geo-Practice?*", Invited speaker, Deep Foundation Institute – Sustainability committee meeting, Woodley Park, VA, June 26.
8. **Tanyu, B. F.** (2012) "*Back Analysis for Landslide in Pennsylvania Infrastructure*", Invited speaker, 1st International Alumni Reunion Conference, University of Wisconsin, Madison, WI, September 14.
7. **Tanyu, B. F.** (2012) "*Use of Recycle Materials in Road Construction*", Invited Speaker, Virginia Center for Transportation Innovation and Research, Virginia Department of Transportation, Charlottesville, VA, April 9.
6. **Tanyu, B.F.** (2011) "*Innovative Use of Microbial Calcite Precipitation to Improve Ash Pond Conditions*", Invited attendee and speaker, Second International Workshop on Bio-Soil Interactions and Engineering, National Science Foundation Workshop hosted by Cambridge University, Cambridge, UK, September 18.
5. **Tanyu, B. F.** (2010) "*Challenges in Landfill Engineering and Development*", Invited panelist, American Society of Civil Engineers, Illinois Geotechnical Section, Chicago, IL, April 29.
4. **Tanyu, B.F.** (2010) "*Monroe Plant Ash Basin Embankment Stabilization*", Invited speaker, Geoenvironmental Action Group Conference, Geosyntec Consultants, San Diego, CA, March 11.
3. **Tanyu, B.F.** (2009) "*Landslide Evaluation Using Back Analyses*", Invited speaker, American Society of Civil Engineers, Illinois Geotechnical Section, Chicago, IL, February 11.

2. **Tanyu, B.F.** (2008) "*Remediation of Kilbuck Landslide*", Invited speaker, Geoenvironmental Action Group Conference, Geosyntec Consultants, Baltimore, MD, April 9.
1. **Tanyu, B.F.** (2004) "*Design of an Interceptor Trench in an Existing Old Landfill Complex*", Invited speaker, Association of Environmental and Engineering Geologists, North Central Section, Chicago, IL, May 18.

V. HONORS, AWARDS, AND RECOGNITIONS

Outstanding Service Award Organizer (Host) of 2019 Summer Workshop TRB ADC60: Resource Conservation and Recovery Committee National Academy of Sciences, Engineering and Medicine	2020
Certificate of Appreciation – Invited Speaker Invited by Virginia Department of Transportation Mid-Atlantic Planning Committee 53 rd Annual Mid-Atlantic Quality Assurance Workshop	2020
Invited International Keynote Speaker 8 th National Conference on Geosynthetics, Istanbul – TURKEY Invited by Bogazici University Organizing Committee Title of Presentation: Use of Recycled Concrete Aggregate in Geotransportation Infrastructures with Geosynthetics May 16 – 17, 2019	2019
Geosynthetic Institute Fellowship (Granted to my Student) \$5000 fellowship is awarded to my Ph.D. student (Mr. Ullah based on the research he is working on under my supervision on use of geotextiles for roads (See section III.G.ii.2 for student information)	2018
TRB Service Recognition Award Committee Chair between 2012-2018 AFP40: Geo-Environmental Processes Committee National Academy of Sciences, Engineering and Medicine	2018
ASCE Journal of Materials in Civil Engineering Editor's Choice Award, April Publication Article on "Effect of Particle Shape on Durability and Performance of Unbound Aggregate Base" by Cook, Tanyu, and Yavuz (See section II.A.v.18)	2017
Invited International Key Note Speaker 4 th International Stone Congress, Izmir – TURKEY Invited by the Izmir Branch of Turkish Chamber of Geological Engineers	2017

Technical Session: Aggregate and Reassessment of Stone Leftover
 Title of Presentation: Use of Recycled Concrete As An Alternative Aggregate
 March 20 – 25, 2017

- | | |
|--|------|
| Invited to Join Editorial Board for the GEGE Journal
Geotechnical and Geological Engineering (GEGE)
An International Journal Published by Springer since 1983 | 2017 |
| Geosynthetic Institute Fellowship (Granted to my Student)
\$5000 fellowship is awarded to my Ph.D. student (Mr. Abbaspour) based on the research he is working on under my supervision on recycled concrete aggregate | 2016 |
| ASTM Geotechnical Testing Journal Paper Award
Hogentogler award - best published paper in 2014
Given by American Standard Testing Materials (ASTM) Committee D18 | 2015 |
| Visiting Affiliate Faculty
University of Maryland, College Park, MD
Invited by Dr. Ahmet H. Aydilek – Geotechnical Engineering Faculty
Spent the Fall semester during the “GMU Study Leave” | 2014 |
| Geosynthetics International Journal Paper Award
Honorable mention for best published papers in 2013 | 2014 |
| Technical Excellence and Leadership
Stability of Monroe Power Plant Ash Basin, Monroe-MI
DTE Energy and Geosyntec Consultants
Invited to Monroe, MI for this Recognition | 2014 |
| National Science Foundation - Geotechnical Extreme Event Reconnaissance Team
Invited by Dr. James R. Martin – Geotechnical Engineering Faculty
Virginia Tech University, Blacksburg, VA | 2011 |
| GeoEnvironmental Action Group Poster Excellence Award
Geosyntec Consultants
“Importance of Developing Representative Interface Shear Strength Testing Program” | 2009 |
| GeoEnvironmental Action Group Poster Excellence Award
Geosyntec Consultants
“Micropile Design and Construction for Structural Support and Slope Stability” | 2004 |
| Research Excellence Award
University of Texas at Arlington, Earth and Environmental Sciences Department
Award presented by the Dean of College of Science | 1999 |

VI. TEACHING AND ADVISING

A. Courses Developed and Taught

Graduate Courses

CEIE 531 – Earth Retaining Structures and Slope Stability
 CEIE 634 – Groundwater and Geoenvironmental Design
 CEIE 690/636 – Sources of Geotechnical Data

Undergraduate Courses

CEIE 331 – Soil Mechanics Lectures
 CEIE 331 – Laboratory component of Soil Mechanics Course
 CEIE 370 – Construction Systems

Cross Listed Graduate/Undergraduate Course

CEIE 435/535 – Introduction to Engineering Geology

Independent studies tailored to advance specific individual research students

CEIE 796 for PhD students:

- Landslides
- Properties of Geosynthetics
- Properties of Recycled Asphalt Aggregate
- Environmental Geotechnics
- Engineering Properties of Recycled Concrete Aggregate

CEIE 796 for MS students:

- GeoHazards and Scour Protection
- MEPDG Design of Roadways

CEIE 498 for Undergraduate research students:

- Damage Analyses of Hurricanes (Taught with Dr. Ferreira)

B. Teaching/Advising Awards

Teaching Excellence Award	2014
National Highway Institute, Federal Highway Administration.	
Teaching Excellence Award	2012
National Highway Institute, Federal Highway Administration.	
Teaching Appreciation Award	1999
University of Texas at Arlington, Earth and Environmental Sciences Department.	
Teaching Excellence Award	1998
University of Texas at Arlington, Earth and Environmental Sciences Department.	

C. Undergraduate Research – Major Advisor (* co-advised)

13. Mera Shabti, Andres Cruz, and Elisabeth Iannett
Evaluating the Contribution of Wetlands to Coastal Resiliency
Laboratory and Field study, *Summer/Fall 2017 and Spring/Fall 2018*
Outstanding Undergraduate Research Award, Spring 2018; GMU
12. Jigme Tenzin Preparation and Characterization of Samples to Perform Tufa Tests
Worked in the geotechnical laboratory, *Summer 2016*.
11. Francisco Cascante Index Properties of Reclaimed Asphalt Pavement
Worked in the laboratory, *Summer 2016*
10. Marco Padilla Index Properties of Recycled Concrete Aggregates
Volunteered to work with my graduate student Aiyoub Abbaspour to
obtain hands-on geotechnical laboratory experience,
Spring and Summer 2014 and Summer 2015.
9. Mahyar Moradian Field Instrumentation Calibration and Installation
Volunteered to work with my graduate student Fitsum
Gebremariam to obtain hands-on geotechnical laboratory and field
experience,
Summer 2015.
8. Siddharath Singh Variability of Index Properties of Recycled Concrete Aggregates
Volunteered to work with my graduate student Aiyoub Abbaspour
to obtain hands-on geotechnical laboratory experience,
Spring and Summer 2014 and Summer 2015.
7. Neha Seth Effects of Aggregate Shape on Durability
Volunteered to work with my graduate student Clayton Cook to obtain
hands-on geotechnical laboratory experience, *Summer 2014*.
6. Brian Todd Effects of Aggregate Shape on Durability
Volunteered to work with my graduate student Clayton Cook to obtain
hands-on geotechnical laboratory experience, *Fall 2013*.

CEIE Department Summer Research Fellow

5. Rita Soelwin Developing Recycled Concrete and Virgin Aggregate Admixtures
Worked on setting-up gradient ratio tests with my graduate student
Aiyoub Abbaspour, *Summer 2015*.

George Mason University OSCAR Undergraduate Research Students

6. Mera Shabti Flume Tests to Quantify Contribution of Vegetation to Coastal Resiliency, *Fall 2018*
5. Melissa Rossi* Creating Self-Sufficient Irrigation Systems
Worked in the geotechnical laboratory, *Fall 2017*
Co-advised with Dr. Celso Ferreira
4. Nicole Nmair Evaluating the Suitability of Micro-Deval Apparatus to Assess the Durability of Aggregates Used in Commonwealth of Virginia on Road Construction. *Advised during Summer 2015.*
(See section II.B.i.16)
3. Tom Barham* Correlation Between Safety of Corn Silos and Shear Strength of Aged Corn. *Co-advised with Dr. Deborah Goodings, Fall 2013.*
2. Daniel Scolose* Use of Hazus: MH Flood Model To Estimate Damage After Hurricane Sandy. *Co-advised with Dr. Celso Ferreira, Spring 2013.*
His research achievement is published in GMU Review Volume 22
http://issuu.com/gmreview/docs/gmr_volume_22/91?e=3279065/7044241
1. Sean Lindenmuth Microbial Induced Calcite Precipitation in Fly Ash Ponds
Advised during Summer 2012 and Fall 2012.
(See section II.B.i.10)

F. Community Outreach - K-12

2. Akul Mehra Langley High School Great Falls, VA. Going from 10th to 11th and then from 11th to 12th grade. Volunteered two spend three days a week in my research laboratory to learn more about geotechnical engineering and associated laboratory experimentation, *July 2015 and July 2016.*
1. Max Kittsteiner Forest Park High School, Woodbridge, VA. Going from 11th to 12th grade. Volunteered to spend two days a week in my research laboratory to learn more about geotechnical engineering and associated laboratory experimentation, *July 2014.*

G. Graduate Research - Major Advisor (* co-advised)**Ph.D. Students**

4. Yashar Alimohammadlou (PhD) *Landslide Forecasting: Inventory, Susceptibility, And Hazard Analyses*
Graduated May 2020.
3. Fitsum Gebremariam (PhD) *Boundary Conditions For Composite Behavior Of Reinforced Soil Structures With Geosynthetics*
Graduated in May 2019.
2. Saad Ullah (PhD) *Developing Guidelines for Sustainable Design: Developing a Methodology to Create an Equivalency Between Reclaimed Asphalt Pavement Aggregate and Virgin Aggregate Used in Road Base Layers*
Winner of 3 Minute Thesis Presentation Competition in VA.
Graduated in December 2018.
(See section II.A. for journal publications)
1. Aiyoub Abbaspour (PhD) *Developing Guidelines for Sustainable Design: Use of Recycled Concrete in Presence of Filter Geotextile in Road Base Layers*
Graduated in August 2017.
(See sections II.A for journal publications)

M.S. (Scholarly Paper/Thesis Research Project)

7. Jackeline Liliana Gastelo Diaz *Evaluation of Hydraulic Conductivity of Sodium Bentonite GCL Overlaps to Saline Solutions*
Graduated in December 2019
6. Siddharath Singh *Characteristic Behavior Of Cross-Anisotropic Deposits Of Granular Materials*
Graduated in May 2019
5. Emre Akmaz *Evaluation of Suitability of Using LWD, DCP, and Geogauge for Quality Control Methods for RAP*
Graduated in December 2018.
4. Tshreya Bhattarai *Evaluation of Using Tactilus Cells to Estimate Vertical and Horizontal Stresses in GeoStructures*
Graduated in August 2017
New Job: (Engineer, ECS Engineering Consulting Services, Chantilly-VA)



3. Mariam Borga* *Developing an Automated Methodology to Relate Hurricane Surge and Scour Damage of Building Foundations*
Graduated in May 2016 (Co-Advised with Dr. Celso Ferraira)
New Job: (Engineer, ECS Engineering Consulting Services, Chantilly-VA)
(See section II.A for associated publication)
2. Clayton Cook *Effect of Particle Shape on Durability and Performance of Unbound Aggregate Base*
Graduated in May 2015
New Job: (Engineer, Kentucky Transportation Cabinet, Frankfort-KY)
(See section II.A for associated publication)
1. Moustafa I. Awad *Evaluation of Frictional Connection Strength of Mechanically Stabilized Earth Wall Faces*
Graduated in May 2012
New Job: (Engineer, Aldea Services LLC, Fredrick-MD)
(See section II.A for associated publication)

I. International Summer Intern and Visiting Faculty - Advisor

3. F. Erol Guler, Ph.D. *Visiting Faculty - Professor*
Civil Engineering Department,
Bogazici University, Istanbul - Turkey

June 2017 thru June 2020.
2. Saad Ullah *Visiting Graduate Student*
National University of Sciences and Technology Institute of Civil
Engineering (NICE), Islamabad, Pakistan

*Evaluation of Shear Strength of Silty Clay Samples Collected from
Northern Virginia, July 2014*
1. Bahadir Ali Yavuz, Ph.D. *Visiting Faculty - Professor*
Geological Engineering Department,
Dokuz Eylul University, Izmir - Turkey

June 2013 thru June 2014.

J. Teaching Activities Beyond GMU

American Society of Civil Engineers Short Course – Earth Retaining Structures

Baltimore, MD October 16-17, 2014

Pittsburgh, PA November 7-8, 2013

Washington, D.C. June 6-7, 2013

(Above entries are also listed under section II.B.ii)

National Highway Institute (NHI) – A Federal Highway Administration Organization

Lead Instructor for Earth Retaining Structures 2012 – 2018

Certified to be NHI Instructor (Instructor Number 0161) 2010

Invited to Become an Instructor to Teach NHI Course 2010

Design of Mechanically Stabilized Earth Walls and Reinforced Soil Slopes - Load and Resistance Factor Design (LRFD)

Invited to Become an Instructor to Teach NHI Course 2008

Earth Retaining Structures - Design of relevant wall types in LRFD

Invited to Become an Instructor to Teach NHI Course 2008

Micropile Design and Construction - Allowable stress design for foundation support and soil-structure analysis for slope stability

NHI Teaching Training Course 2007

VII. SERVICE

A. Professional

i. Professional Registration

Registered Chamber of Geological Engineer, Izmir, TURKEY, No. 6111

ii. Membership in Professional Organizations

National Research Council, Transportation Research Board (TRB)

American Society of Civil Engineers (ASCE)

International Geosynthetics Society, North America Chapter (IGS-NAGS)

International Society for Soil Mechanics and Geotechnical Engineering (ISSMGE)

Turkish Association of Geological Engineers (TJK)

American Council of Engineering Companies (ACEC) – *former member*

Society of American Military Engineers (SAME) – *former member*

Association of Engineering and Environmental Geologist – *former member*

iii. Reviewing Activities as a Referee

Journal of Environmental Quality Wiley Publication (US) – <i>Reviewer</i>	2019 – current
Journal of Waste Management Elsevier Publication (US) – <i>Reviewer</i>	2019 – current
Journal of Transportation Geotechnics Elsevier Publication (US) – <i>Reviewer</i>	2018 – current
Journal of Construction and Building Materials Elsevier Publication (US) – <i>Reviewer</i>	2016 – current
International Journal of Geoengineering Case Histories ISSMGE Publication (UK) – <i>Reviewer</i>	2015 – current
Journal of Cleaner Production Elsevier Publication (US) – <i>Reviewer</i>	2015 – current
Journal of Neural Computing and Applications Springer Publication (UK) – <i>Reviewer</i>	2014 – current
Journal of Air and Waste Management Environ Publications (US) – <i>Reviewer</i>	2014 – current
Journal of Geotextiles and Geomembranes Elsevier Publication (US) – <i>Reviewer</i>	2014 – current
Deep Foundation Institute (DFI) Journal Deep Foundation Institute (US) – <i>Reviewer</i>	2014 – current
Bulletin of Engineering Geology and the Environment Springer Publication (UK) – <i>Reviewer</i>	2014 – current
Journal of Materials in Civil Engineering American Society of Civil Engineers (US) – <i>Reviewer</i>	2014 – current
Journal of Natural Hazards Springer Publication (UK) – <i>Reviewer</i>	2014 – current
Journal of Irrigation and Drainage Engineering American Society of Civil Engineering (US) – <i>Reviewer</i>	2013 – current
Journal of Geotechnical and Geological Engineering Springer Publication (UK) – <i>Reviewer</i>	2012 – current
Journal of Geosynthetics International Institution of Civil Engineers (UK) – <i>Reviewer</i>	2011 – current
Journal of ASTM International American Standard Testing and Materials (US) – <i>Reviewer</i>	2011 – current
Journal of Geotechnical and Geoenvironmental Engineering American Society of Civil Engineers (US) – <i>Reviewer</i>	2010 – current
Journal of Transportation Research Record Transportation Research Board, National Research Council (US) – <i>Reviewer</i>	2006 – current
International Journal of Pavement Engineering Taylor and Francis Publishers (UK) – <i>Reviewer</i>	2006 – 2012

Book Chapter Review	2013
Book Title: Principles and Practice of Ground Improvement	
Author: Jie Han	
Publisher: Wiley Publishing Company, U.S.; ISBN-10: 1118259912	
Reviewed: Chapter 9 – In Situ Ground Improvement	

iv. Roles in Professional Committees

Journal of Innovative Transportation <i>Editorial Board Member</i>	2020 – current
Geological and Geotechnical Engineering (GEGE) Journal <i>International Journal Published by Springer since 1983</i> <i>Editorial Board Member</i>	2017 – current
National Research Council, Transportation Research Board (TRB) <i>Member</i> – Resource Conservation and Recovery Committee (ADC60)	2018 – current
<i>Chair</i> - Geo-Environmental Processes Committee (AFP40)	2012 – 2018
<i>Member</i> - Geosynthetics Committee (AFS70)	2009 – 2018
American Society of Civil Engineers (ASCE) <i>Member</i> - Sustainability in Geotechnical Engineering Committee	2013 – current
<i>Member</i> - Geoenvironmental Engineering Committee	2012 – current
<i>Member</i> - Earth Retaining Structures Committee	2012 – current
<i>Member</i> - Washington DC Capital Section	2011 – current
International Society for Soil Mechanics and Geotechnical Engineering (ISSMGE) <i>Member</i> - Sustainability Technical Committee (TC307)	2013 – current
American Council of Engineering Companies (ACEC) Illinois District 1 Committee	2007 – 2011
<i>Former Member</i> - Sustainability Sub-committee	

v. Reviewing Activities for Agencies

American Society of Testing Materials (ASTM) – <i>Review Panelist</i> As a former recipient of the award, invited to participate in selecting 2016 Hogentogler Awardee	2016
National Aeronautics and Space Administration (NASA) – <i>Review Panelist</i> Disasters Geologic Hazards Follow-Up Panel	2014
Disasters Geologic Hazards Panel	2012
National Science Foundation (NSF) – <i>Review Panelist</i> Civil, Mechanical, and Manufacturing Engineering Division	2018

Geomechanics and Geotechnical Engineering Division	2015
Geomechanics and Geotechnical Engineering Division	2014
Geomechanics and Geotechnical Engineering Division	2011

vi. **Reviewing/Organizing Activities for Conferences**

TRB Summer Workshop Organizing Committee Chair (Host) Sustainable Resource Conservation and Recovery in Transportation Transportation Research Board, ADC60 Committee Event National Academy of Science, Washington, DC Event on July 14 th – 16 th , 2019.	2019
GeoCongress 2019, Philadelphia, PA Technical Session Co-Chair: Earth Retaining Structures: Top/Down Const. American Society of Civil Engineers (ASCE) Conference on March 24 th – 27 th , 2019.	2019
97 th Annual Conference, Washington, DC Transportation Research Board of the National Academies Technical Session Co-Chair: <i>Recycled Materials and Chemical and Biological Processes in Infrastructure</i> Technical Session Co-Chair: <i>Use of Recycled Materials in Transportation Infrastructure</i>	2018
16 th International Congress of Polymers in Concrete, Washington, DC Member of the International Scientific Committee Reduce, reuse, and recycle of polymer concrete and polymer composites Polymer aggregates in concrete structures including pavements Conference on April 29 th – May 1 st , 2018.	2017
96 th Annual Conference, Washington, DC Transportation Research Board of the National Academies Technical Session Co-Chair: <i>Advances in Cementitious Stabilization of Soils</i>	2017
Geotechnical Frontiers 2017, Orlando, FL Technical Session Co-Chair: Roadway Materials, Monitoring, and Testing	2016
EuroGeo 2016, European Geosynthetics Congress, Ljubljana, SLOVENIA Technical Review Committee Member	2016
Transportation Research Board Summer Workshop, Ashville, NC Resource Conservation and Recovery Transportation Research Board of the National Academies Organizing Committee Member: TRB AFP40 and ADC60 Committees	2016

- GeoAmericas 2016, Miami, FL 2015
 3rd Pan-American Conference on Geosynthetics
Technical Session Chair: Lab Testing-3
Technical Session Co-Chair: Transportation-1
- Geo-Chicago 2016, Chicago, IL 2015
 Sustainability, Energy, and the Geoenvironment
 Geo-Institute, American Society of Civil Engineers
Technical Session Chair: A-15 Sustainability in Geotechnical Engineering
- 6th Geotechnical Symposium, Adana – Turkey 2015
 Turkish Civil Engineering Chamber
Technical Review Committee Member
- 93rd Annual Conference, Washington, DC 2014
 Transportation Research Board of the National Academies
Session Chair: 335- Geosynthetics Yesterday, Today, and in the Future
 (Selected as One of the Spotlight Sessions of the Conference)
Session Chair: 214 – Advancements in Soil Improvement Using Biomediation Methods
- 39th Annual Conference on Deep Foundations, Atlanta, GA 2014
 Deep Foundations Institute
Technical Review Committee Member
- Geo-Congress 2014, Atlanta, GA 2013
 Geo-Characterization and Modeling for Sustainability
 Geo-Institute, American Society of Civil Engineers
Technical Review Committee Member
- 5th Geotechnical Symposium, Adana – Turkey 2013
 Turkish Civil Engineering Chamber
Technical Review Committee Member
- Geo-Congress 2013, San Diego, CA 2012
 Stability and Performance of Slopes and Embankments III
 Geo-Institute, American Society of Civil Engineers
Technical Review Committee Member
- Geosynthetics 2013, Long Beach, CA 2012
 Industrial Fabrics Association International
Technical Review Committee Member
- Geo-Congress 2012, Oakland, CA 2011
 State of the Art and Practice in Geotechnical Engineering
 Geo-Institute, American Society of Civil Engineers

Technical Review Committee Member

Transportation Research Board of National Academies 2012 - 2018
 Annual Conferences, Washington, DC
Technical Review Chair of all TRB AFP40 Committee Sessions

vii. Other Professional Service/Recognition

International Geosynthetics Society – North America 2017
 Invited judge for technical case study competition

Service Appreciation Recognition 2016
 For helping with overall conference organization
 GeoAmericas Conference
 International Geosynthetics Society (IGS) – North America Geosynthetics Society

Technical Excellence and Leadership Award 2013
 Stability of Monroe Power Plant Ash Basin, Monroe-MI
 DTE Energy and Geosyntec Consultants
(Above entry is also listed under II.D)

Zoning Board of Appeals – Member 2008 - 2011
 Appointed by Mayor of Village of Forest Park-IL
 Volunteer community service

Pro Bono Publico Award 2009
 American Council of Engineering Companies (ACEC)
 Awarded to Sustainability Subcommittee members for development of I-LAST
(Description of I-LAST provided under II.A.vii.2)

Northeast/Great Lakes Region Exceptional Performer Award 2007
 Geosyntec Consultants, Chicago, IL

B. University**i. Department**

Chair of Search Committee for New Tenure-Track Faculty	Spring 2018
P&T Committee for CEIE	Fall 2017
Search Committee for New Tenure-Track Faculty	Fall 2016 – Spring 2017
Qualifying Exam Committee	Fall 2012 – current
Undergraduate Senior Design Referee	Fall 2011 – current
Establishing Fully Operational Geotechnical Laboratory	Fall 2013
Construction Support for CEIE/Geotechnical laboratory	Spring 2013
Design Support for CEIE/Geotechnical laboratory	Spring 2012 – Fall 2012
Graduate Student CEIE Seminars	Fall 2011 – Spring 2012



Recording Departmental Meeting Minutes

Fall 2011 – Spring 2012

ii. Volgenau School of Engineering (VSE)

Referee for VSE Jeffress Trust Grants

Fall 2017

Department Representative on VSE Research Committee

Fall 2014 – current

Graduation Ceremony Marshall

Fall 2013 – current

Department Representative on VSE Academic Appeals Committee

Fall 2012 – Fall 2014

iii. George Mason University

Judge for 3MT – Research Communication Competition

March 2017

Office of Provost and Executive Vice President

City Council Agenda Item Report

Meeting Date: March 8, 2021

Submitted by: Terri Hruby

Submitting Department: Planning

Item Type: OTHER BUSINESS

Agenda Section: OTHER BUSINESS

Subject:

WMATA's FY 2022 Budget Proposal Including Service Adjustments

Suggested Action:

Reference:

Memorandum, T. Hruby, 03/03/2021

WMATA FY 22 Metrobus Service Changes

Notice of Public Hearing FY 22 Budget

WMATA has released its FY 2022 budget for public review and comment. The proposed budget assumes that during the second half of fiscal year 2022 (January 1 to June 30, 2022) significant service reductions would need to take place to balance the FY 2022 budget. A series of virtual public hearings on WMATA's proposed FY 2022-2027 Capital Improvement Program and Proposed FY 2022 Operating Budget are scheduled early March.

Under WMATA's proposal Metrorail would operate at the February 2021 service levels (approximately 80 percent of pre-pandemic levels) for the first six months of FY 2022, and then would reduce service to approximately 30 percent pre-pandemic levels beginning January 2022. Service reductions would include increasing weekday and weekend headways, closing the system at 9pm Monday through Saturday instead of 11 pm and closing 22 Metrorail Stations including College Park-U of MD.

Under WMATA's FY 2022 Metrobus service proposal, WMATA is proposing to maintain FY 2021 span and frequency on the majority of its routes for the first half of FY 2022. It is also proposing to add service on the C4 (Greenbelt-Twinbrook) so that it operates until 2am seven days a week and to restore Saturday service on the R12. However, under the proposal

Metrobus will operate at 50% of its pre-pandemic bus service for the second half of FY 2022. This means the City and the region are facing **significant** reductions to Metrobus service in January 2022. In Council's back up materials is a staff memo summarizing proposed service changes and excerpts from WMATA's proposed FY 2022 budget on proposed service reductions on Metrobus Routes that serve Greenbelt.

Staff recommends the City Council send a letter to WMATA opposing the Metrorail and Metrobus service reductions proposed for the second half of FY 2022, particularly the elimination of the Metrobus G12, which was developed in collaboration with the City and local transit advocates and provides vital service to areas of the City that are otherwise not served by transit. The letter would cite the significant adverse impacts the reductions will have on Greenbelt residents and business, and the region. Staff further recommends the City Council transmit a letter to our State and Federal representatives advocating for the additional funding to allow WMATA to resume and/or expand on pre-pandemic service levels.

Attachments:

[WMATA FY 22 Metrobus Service Changes.pdf](#)

[Notice-of-Public-Hearing-FY22-Budget.pdf](#)

[Memorandum, T. Hruby, 03/03/2021.pdf](#)

FY22 Proposed Metrobus Service Changes Maryland

COLLEGE PARK LINE – ROUTES 83, 86

SERVICE GUIDELINE SCORES

Line Benefit Score	33	Line Classification	Framework
Overall Grade	A	Activity Tier	3

AVERAGE DAILY RIDERSHIP

Winter 2019-2020 Pre-Pandemic	Weekday	Saturday	Sunday
	3,940	1,930	1,312

PROPOSED CHANGES TO PRE-PANDEMIC SERVICE

1st half Fiscal Year 2022 (July-December 2021)

- No proposed changes.

2nd half Fiscal Year 2022 (January-June 2022)

- Eliminate Route 86.
 - In Hyattsville, service on 38th Street, 38th Avenue, Hamilton Street, 40th Avenue, Oglethorpe Street, 42nd Avenue, Queensbury Road, Belcrest Road, East-West Highway, and to Prince George's Plaza Metrorail Station is eliminated.
 - North of Greenbelt Road (MD 193), service on Baltimore Avenue (Route 1), Rhode Island Avenue, Powder Mill Road, and to Centerpark Office Park is eliminated.
- Modify Route 83 to terminate at Greenbelt Metrorail Station instead of Cherry Hill Park Campground.
 - Service on Rhode Island Avenue, Edgewood Road, Cherry Hill Road, and to Seven Springs Village and Cherry Hill Park Campground is eliminated.

PROPOSED SERVICE FREQUENCIES (minutes)

FY 2022	Weekday Peak	Weekday Off-Peak	Saturday	Sunday	Early Morning- Late Evening (all days)
July-December 2021	20-30	20-30	20-30	20-30	30
January-June 2022	30	30	30	30	30

ALTERNATIVE SERVICE

2nd half Fiscal Year 2022 (January-June 2022)

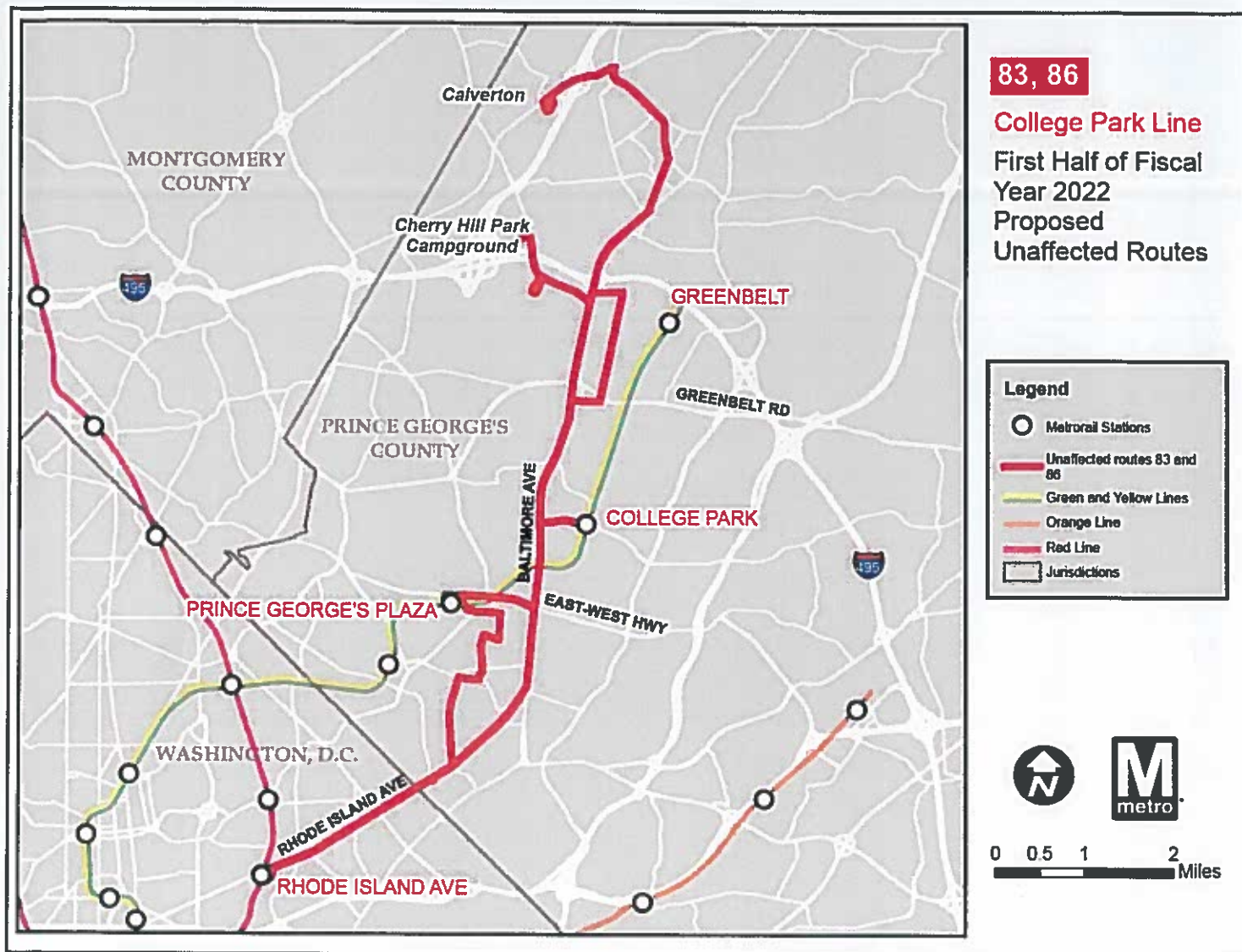
- Alternate service on Baltimore Avenue (Route 1) between Greenbelt Road (MD 193) and IKEA Center Boulevard is provided by TheBus route 17.
- Alternative service on 38th Street is available on TheBus route 18.

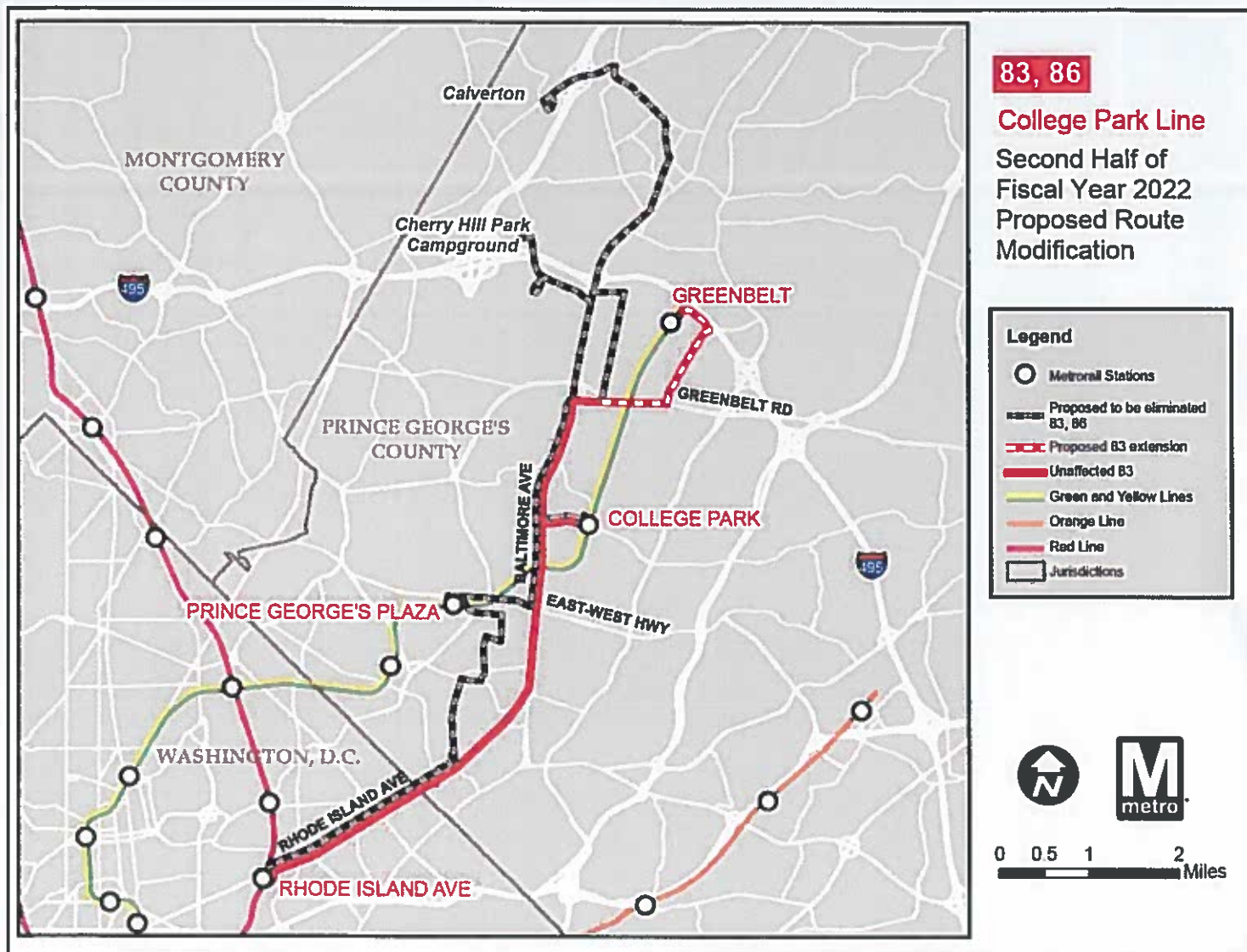
- Alternate service on Hamilton Street, 42nd Avenue between Oglethorpe Street and Queensbury Road, and Queensbury Road between 42nd Avenue and Prince George's County Metrorail Station is provided by TheBus route 13.

AVERAGE DAILY RIDERSHIP

Fall 2020	Weekday	Saturday	Sunday
Total Ridership	1,149	984	711
Percentage affected ¹ 1st Half FY 2022	0%	0%	0%
Percentage affected ¹ 2nd Half FY 2022	24%	24%	12%

1 – Estimated percent of trips that can no longer board at the same stop using Metrobus. Service provided by local jurisdictions is not included as alternatives.





LAUREL LINE – ROUTES 89, 89M**SERVICE GUIDELINE SCORES**

Line Benefit Score	13		Line Classification	Coverage
Overall Grade	B		Activity Tier	3

AVERAGE DAILY RIDERSHIP

Winter 2019-2020 Pre-Pandemic	Weekday	Saturday	Sunday
	801	n/a	n/a

PROPOSED CHANGES TO PRE-PANDEMIC SERVICE**1st half Fiscal Year 2022 (July-December 2021)**

- Eliminate Route 89. Run Route 89M all day.
- Service on 5th Street between Main Street and Gorman Avenue; Gorman Avenue between 4th and 5th streets; and 4th Street between Cherry Lane and Gorman Avenue is eliminated.

2nd half Fiscal Year 2022 (January-June 2022)

- Eliminate entire line.

PROPOSED SERVICE FREQUENCIES (minutes)

FY 2022	Weekday Peak	Weekday Off-Peak	Saturday	Sunday	Early Morning- Late Evening (all days)
July-December 2021	30-50	60	n/a	n/a	n/a
January-June 2022	n/a	n/a	n/a	n/a	n/a

ALTERNATIVE SERVICE**1st half Fiscal Year 2022 (July-December 2021)**

- Alternate Route 89 service is available on Route 89M.

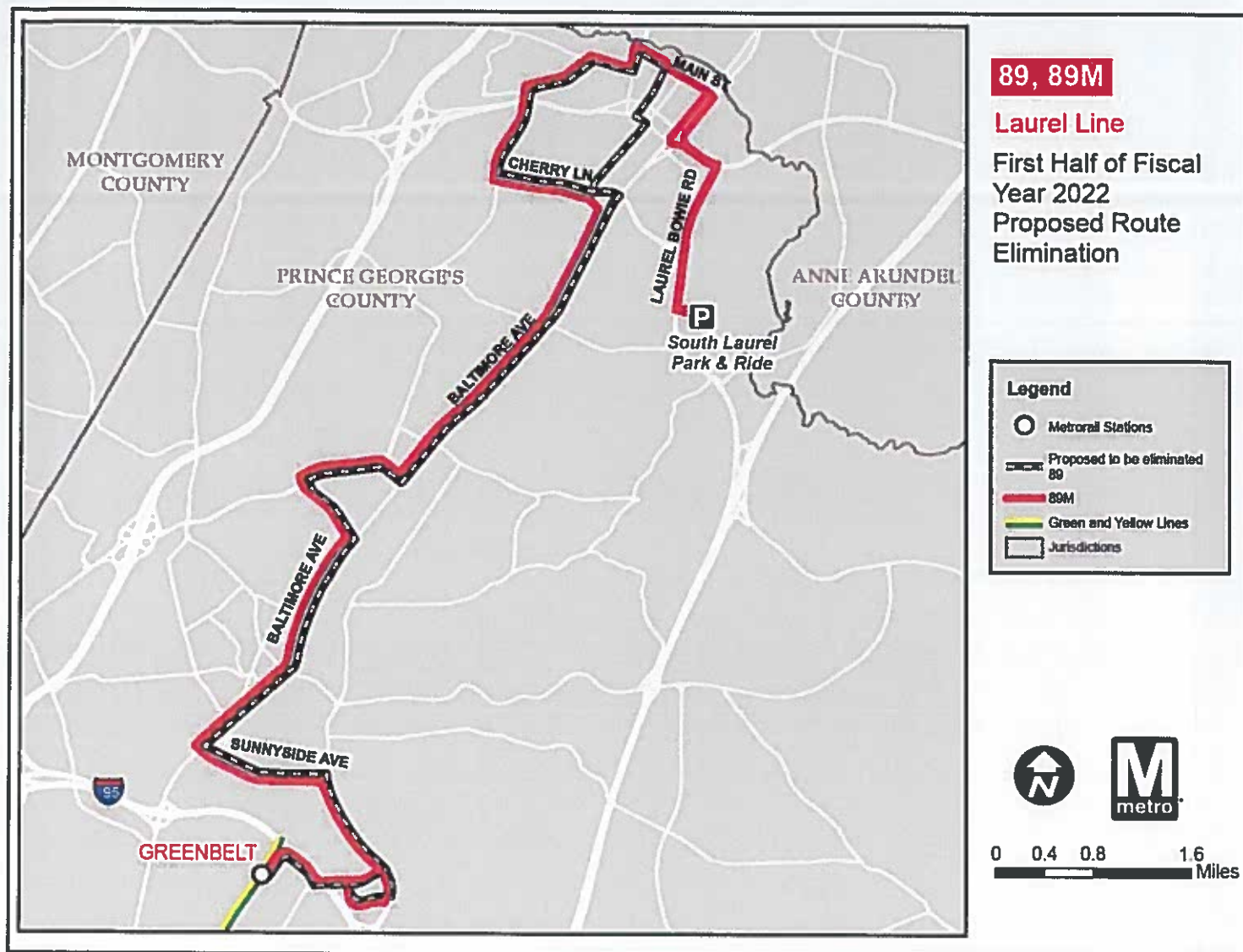
2nd half Fiscal Year 2022 (January-June 2022)

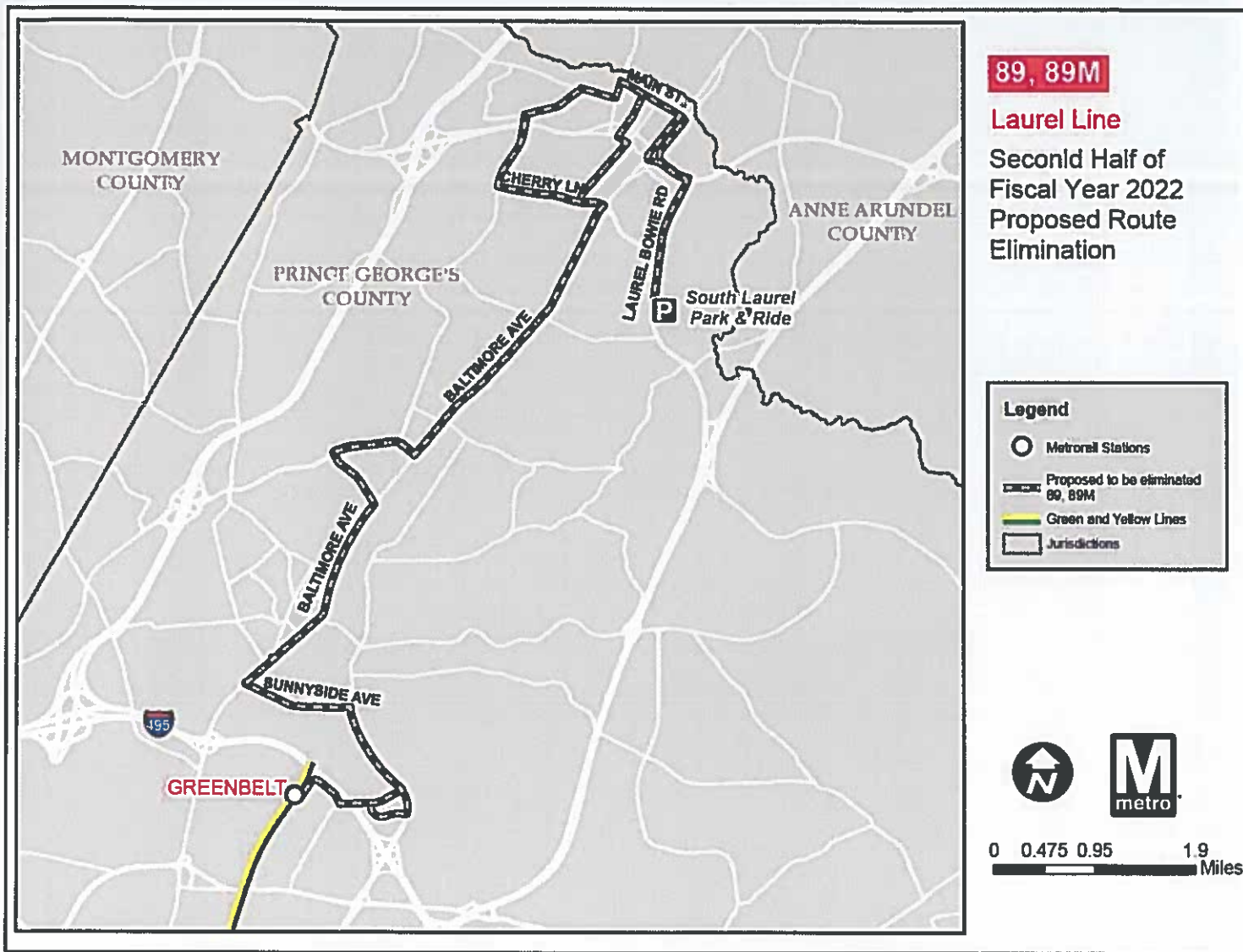
- Alternate service is available on RTA Route 302 between Laurel and Greenbelt Metrorail Station.

AVERAGE DAILY RIDERSHIP

Fall 2020	Weekday	Saturday	Sunday
Total Ridership	127	n/a	n/a
Percentage affected ¹ 1st Half FY 2022	61%	n/a	n/a
Percentage affected ¹ 2nd Half FY 2022	100%	n/a	n/a

1 – Estimated percent of trips that can no longer board at the same stop using Metrobus. Service provided by local jurisdictions is not included as alternatives.





GREENBELT-TWINBROOK LINE – ROUTES C2, C4

SERVICE GUIDELINE SCORES

Line Benefit Score	62	Line Classification	Framework
Overall Grade	B	Activity Tier	2

AVERAGE DAILY RIDERSHIP

Winter 2019-2020 Pre-Pandemic	Weekday	Saturday	Sunday
	9,102	6,951	5,318

PROPOSED CHANGES TO PRE-PANDEMIC SERVICE

1st half Fiscal Year 2022 (July-December 2021)

- Extend Route C4 span to add late-night service until 2 a.m.

2nd half Fiscal Year 2022 (January-June 2022)

- Eliminate Route C2.
- Modify Route C4 as follows:
 - Regular routing between Prince George's Plaza Metrorail Station and Veirs Mill Road & Randolph Road.
 - From Veirs Mill Road & Randolph Road, continue on Veirs Mill Road to Rockville Metrorail Station.
- Reduce Route C4 span to terminate service at midnight.

PROPOSED SERVICE FREQUENCIES* (minutes)

FY 2022	Weekday Peak	Weekday Off-Peak	Saturday	Sunday	Early Morning- Late Evening (all days)
July-December 2021	5-15	10-15	12-15	15-20	30
January-June 2022	5-15	10-15	12-15	15-20	30

*On combined C2, C4 segment.

ALTERNATIVE SERVICE

1st half Fiscal Year 2022 (July-December 2021)

- Route C2 and C4 service is maintained.

2nd half Fiscal Year 2022 (January-June 2022)

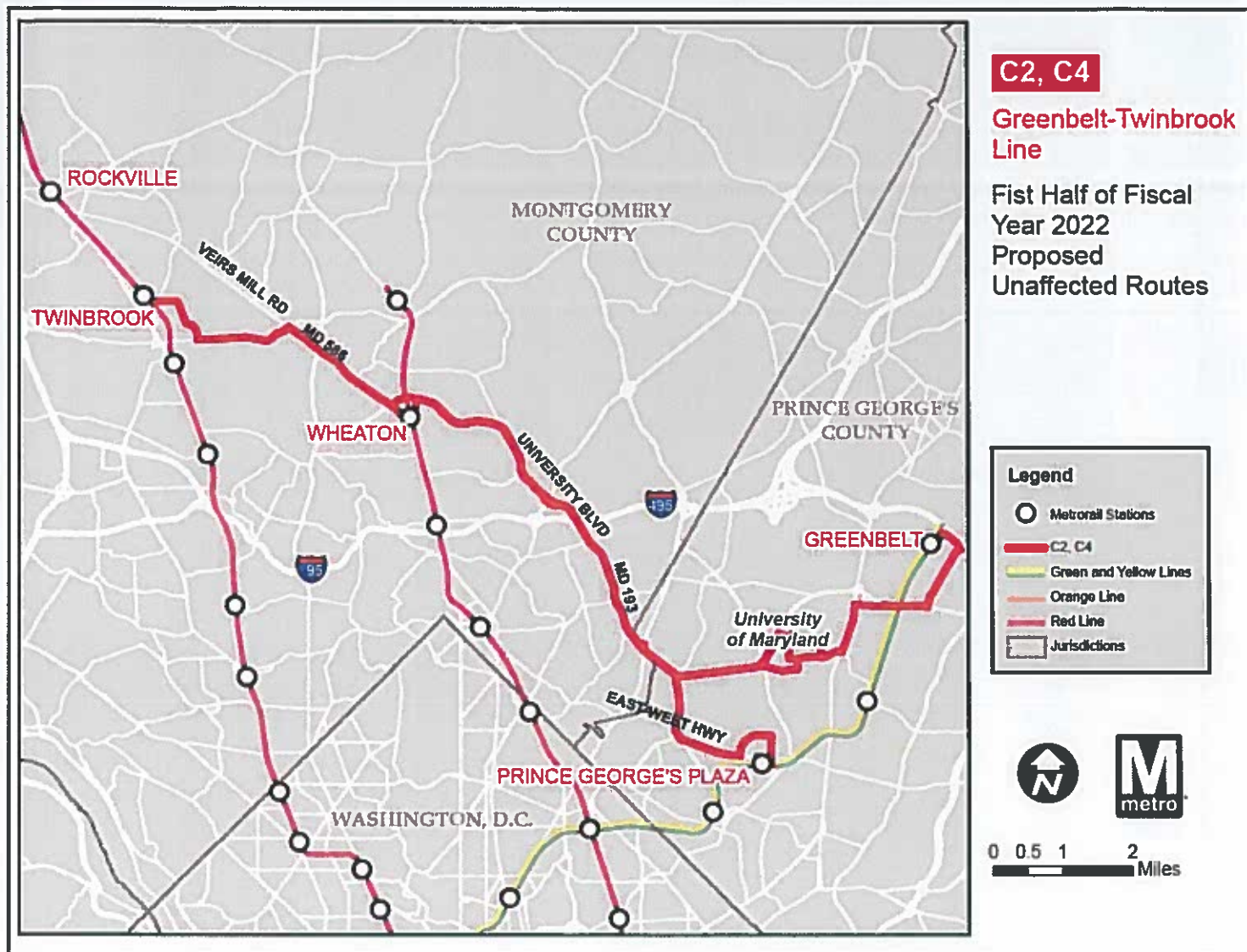
- Alternate service to Twinbrook Metrorail Station on Parklawn Drive and Randolph Road is available on Ride On Route 10.
- Alternate service to the University of Maryland is available on Shuttle-UM.

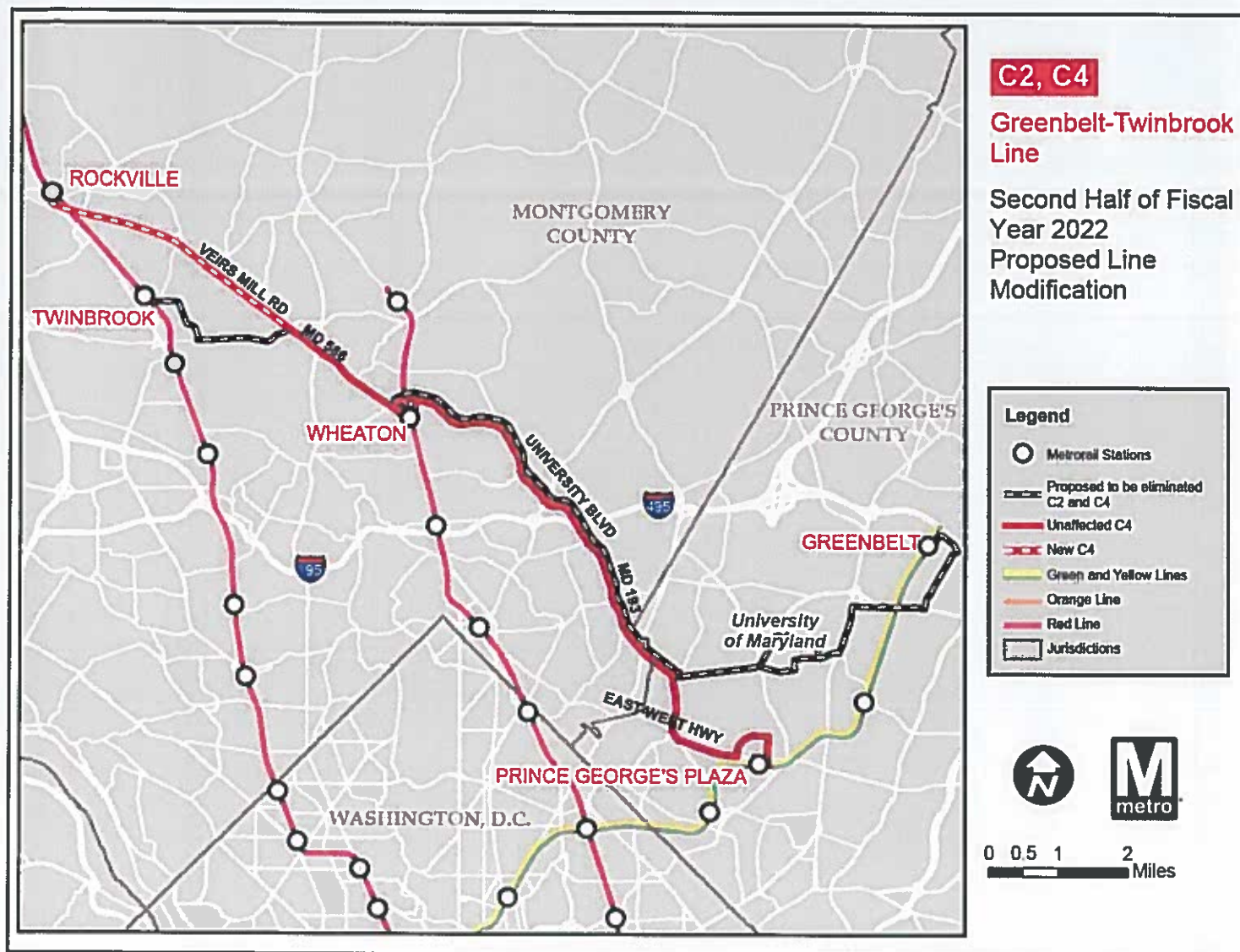
- Alternate service to Greenbelt Metrorail Station on Greenbelt Road and Cherrywood Lane is available on modified Route 83.

AVERAGE DAILY RIDERSHIP

Fall 2020	Weekday	Saturday	Sunday
Total Ridership	5,553	5,100	4,192
Percentage affected ¹ 1st Half FY 2022	0%	0%	0%
Percentage affected ¹ 2nd Half FY 2022	15%	14%	15%

¹ – Estimated percent of trips that can no longer board at the same stop using Metrobus. Service provided by local jurisdictions is not included as alternatives.





GREENBELT-NEW CARROLLTON LINE – ROUTES G12, G14

SERVICE GUIDELINE SCORES

Line Benefit Score	27	Line Classification	Coverage
Overall Grade	A	Activity Tier	3

AVERAGE DAILY RIDERSHIP

Winter 2019-2020 Pre-Pandemic	Weekday	Saturday	Sunday
	3,273	1,727	1,210

PROPOSED CHANGES TO PRE-PANDEMIC SERVICE

1st half Fiscal Year 2022 (July-December 2021)

- No proposed changes.

2nd half Fiscal Year 2022 (January-June 2022)

- Eliminate route G12. Only route G14 will run.

PROPOSED SERVICE FREQUENCIES (minutes)

FY 2022	Weekday Peak	Weekday Off-Peak	Saturday	Sunday	Early Morning- Late Evening (all days)
July-December 2021	15	30	30	30	
January-June 2022	30	60	60	60	60

ALTERNATIVE SERVICE

1st half Fiscal Year 2022 (July-December 2021)

- Route G12 and G14 service is maintained.

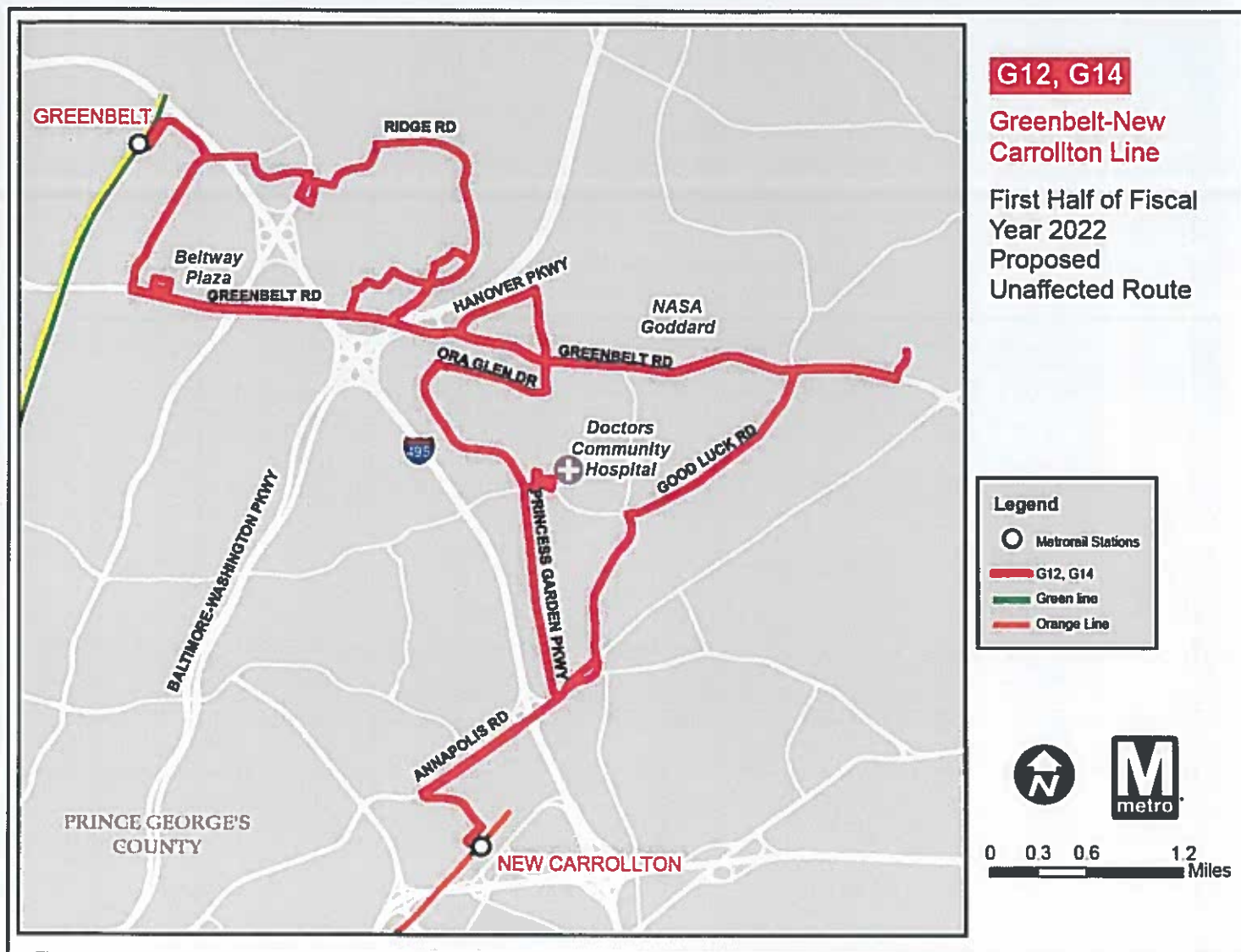
2nd half Fiscal Year 2022 (January-June 2022)

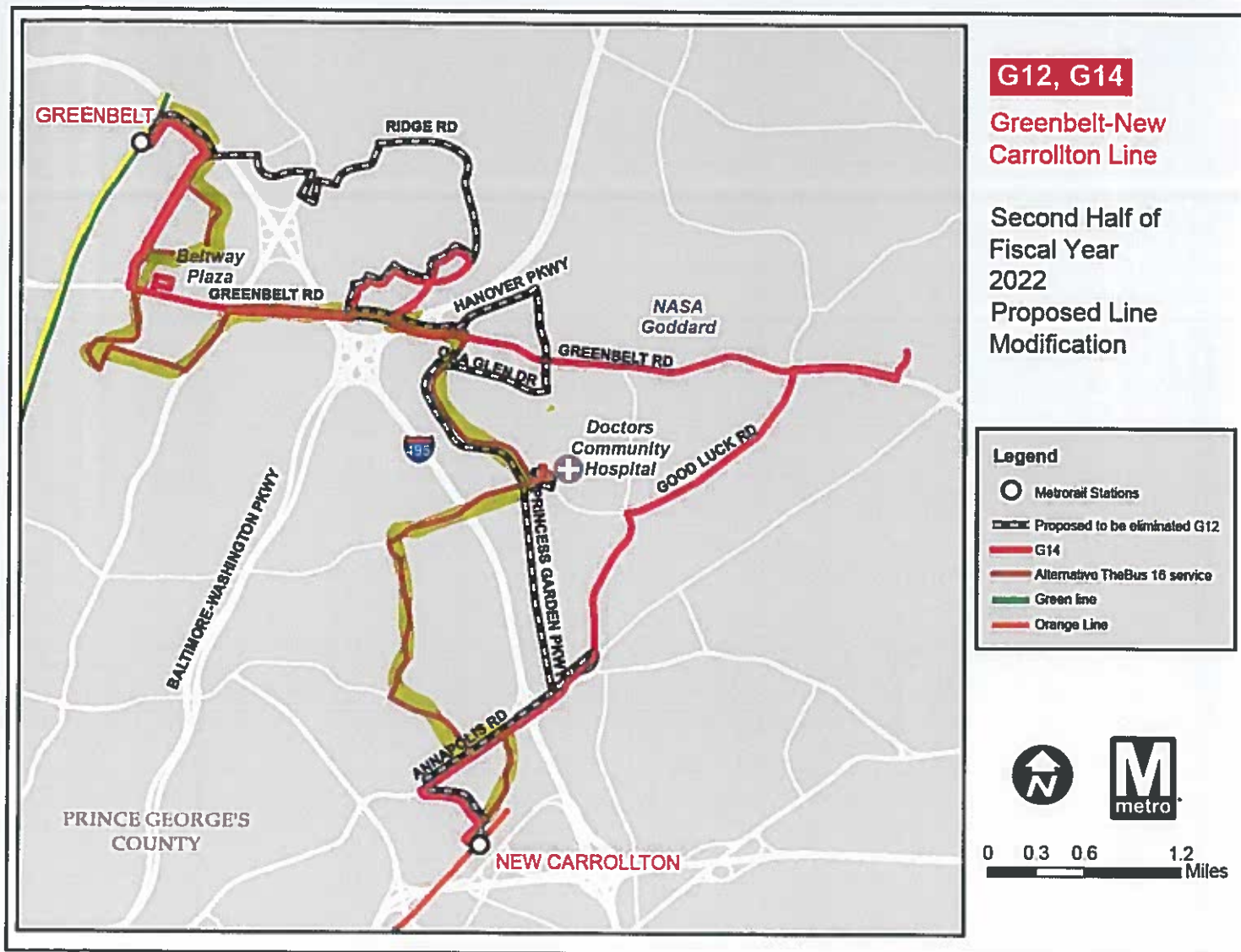
- Alternate service to Doctors Community Hospital and Hanover Parkway south of Greenbelt Road is available on TheBus Route 16.
- Alternate service to University Square and Crescent Road & Gardenway is available on Route G14.

AVERAGE DAILY RIDERSHIP

Fall 2020	Weekday	Saturday	Sunday
Total Ridership	1,647	1,123	691
Percentage affected ¹ 1st Half FY 2022	0%	0%	0%
Percentage affected ¹ 2nd Half FY 2022	10%	10%	11%

1 – Estimated percent of trips that can no longer board at the same stop using Metrobus. Service provided by local jurisdictions is not included as alternatives.





KENILWORTH AVENUE LINE – ROUTE R12**SERVICE GUIDELINE SCORES**

Line Benefit Score	18		Line Classification	Framework
Overall Grade	B		Activity Tier	3

AVERAGE DAILY RIDERSHIP

Winter 2019-2020 Pre-Pandemic	Weekday	Saturday	Sunday
	1,413	607	n/a

PROPOSED CHANGES TO PRE-PANDEMIC SERVICE**1st half Fiscal Year 2022 (July-December 2021)**

- Maintain FY21 span and frequency and restore Saturday service.

2nd half Fiscal Year 2022 (January-June 2022)

- Eliminate entire line.

PROPOSED SERVICE FREQUENCIES (minutes)

FY 2022	Weekday Peak	Weekday Off-Peak	Saturday	Sunday	Early Morning- Late Evening (all days)
July-December 2021	60	60	60	n/a	n/a
January-June 2022	n/a	n/a	n/a	n/a	n/a

ALTERNATIVE SERVICE**1st half Fiscal Year 2022 (July-December 2021)**

- Route R12 service is maintained.

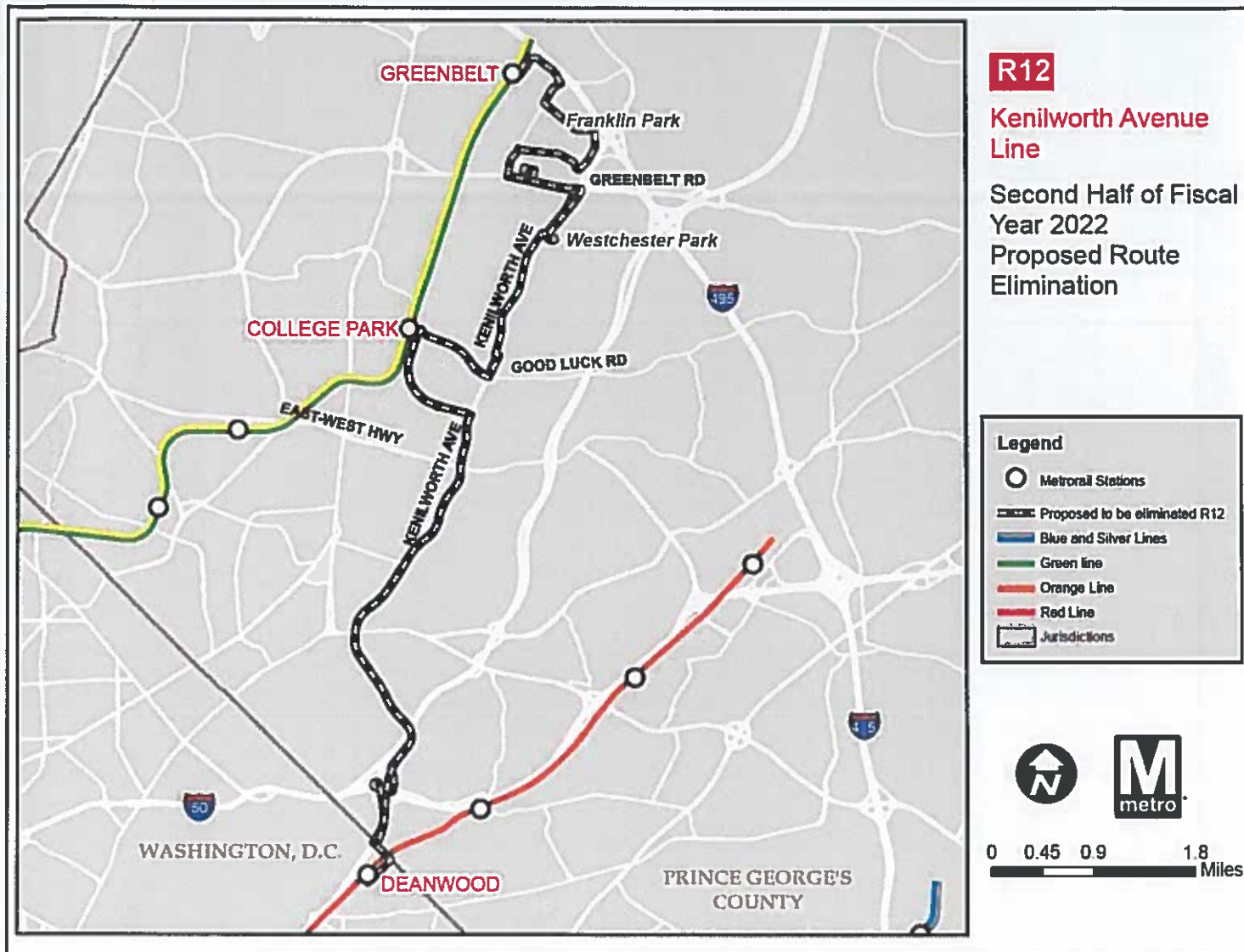
2nd half Fiscal Year 2022 (January-June 2022)

- Alternate service is available on Greenbelt Road on Route G14; on Cherrywood Lane on modified Route 83 and Route G14; and through Franklin Park on TheBus Route 16.

AVERAGE DAILY RIDERSHIP

Fall 2020	Weekday	Saturday	Sunday
Total Ridership	471	n/a	n/a
Percentage affected ¹ 1st Half FY 2022	0%	n/a	n/a
Percentage affected ¹ 2nd Half FY 2022	50%	n/a	n/a

1 – Estimated percent of trips that can no longer board at the same stop using Metrobus. Service provided by local jurisdictions is not included as alternatives.



Notice of Public Hearing

Washington Metropolitan Area Transit Authority

Docket B21-01: Proposed FY2022-2027 Capital Improvement Program

Docket B21-02: Proposed FY2022 Operating Budget, Related Service Proposals and Parking Rate Changes

Purpose

Notice is hereby given that public hearings will be held by the Washington Metropolitan Area Transit Authority on the dockets mentioned above as follows:

Due to the ongoing public health emergency and the prohibition on public gatherings related to the Covid-19 pandemic, these hearing will be conducted virtually and may be viewed on wmata.com and at [youtube.com/MetroForward](https://www.youtube.com/MetroForward).

To provide testimony at a hearing or listen via phone, please dial (512) 580-8850 (toll-free) and enter the four-digit code for the meeting.

Hearing No. 634
Monday, March 8, 2021
Public Hearing at 11 a.m.
Host: Paul Smedberg (VA)
Meeting Code: 9476

Hearing No. 635
Monday, March 8, 2021
Public Hearing at 6 p.m.
Host: Stephanie Gidigbi-Jenkins (DC)
Meeting Code: 3811

Hearing No. 636
Tuesday, March 9, 2021
Public Hearing at 6 p.m.
Host: Michael Goldman (MD)
Meeting Code: 9131

Hearing Number 637
Wednesday, March 10, 2021
Public Hearing at 6 p.m.
Hosts: Paul Smedberg and Walter Alcorn (VA)
Meeting Code: 9141

Please note that these dates are subject to cancellation.

In the event of a cancellation, Metro will post information about the new hearings on wmata.com

There is no advance speaker registration for these meetings. Speakers will be heard in the order that they call in to the hearing, except as noted.

For more information please visit www.wmata.com/budget.

Any individual who requires special assistance or additional accommodation to participate in public hearings, or requires these materials in an alternate format, should contact the Office of the Secretary at (202) 962-2511 or: TTY (202) 962-2033 as soon as possible in order for Metro to make necessary arrangements. For language assistance, such as an interpreter or information in another language, please call (202) 962-2582 as soon as possible prior to the public hearing date.

In accordance with Section 62 of the WMATA Compact, Metro will conduct public hearings. Information on the hearings will be provided in Metrorail stations, on all Metrobuses and MetroAccess vehicles, and online at wmata.com/budget.

HOW TO SUBMIT TESTIMONY AT A PUBLIC HEARING – All organizations or individuals desiring to be heard with respect to this docket will be afforded the opportunity to present their views, make supporting statements and to offer alternative proposals. Public officials will be allowed five minutes each to make their presentations. All others will be allowed three minutes each. Relinquishing of time by one speaker to another will not be permitted. Speakers who have not previously provided testimony on these dockets will be given priority.

There is no advance registration for these hearings. Those wishing to provide oral testimony will call (512) 580-8850 (toll-free) and enter the specific four-digit hearing code for that hearing. Phone lines will open at the scheduled start time of each hearing. Individuals will be called to testify in the order they call in to each hearing. Elected public officials will be allowed to provide their testimony as soon as feasible. If you will not be able to stay on the phone to provide your testimony orally when your name is called, you will still have the option to submit your comments into the public record via a voice recording.

Please note that all comments received are releasable to the public upon request, and may be posted on WMATA's website, without change, including any personal information provided.

HOW TO SUBMIT TESTIMONY NOT AT THE PUBLIC HEARING – Testimony about this proposal may be submitted via a survey online at wmata.com/budget or via telephone at (844) 468-5748. The survey will open by 9 a.m. on Saturday, February 20, 2021 and will close at 5 p.m. on Tuesday, March 16, 2021. The survey will also provide the opportunity to submit freeform comments. This is in addition to your ability to speak at a public hearing. For those without access to computers or internet, testimony may also be mailed to the Office of the Board Secretary, Washington Metropolitan Area Transit Authority, 600 Fifth Street NW, Washington, DC 20001. All comments must be received by 5 p.m. on Tuesday, March 16, 2021 to be included in the public record.

The comments received by the Office of the Board Secretary, along with the survey results and public hearing comments, will be presented to the Board and will be part of the official public hearing record. Please note all statements are releasable to the public upon request, and may be posted on WMATA's website, without change, including any personal information provided.

Copies of the docket in its entirety can be requested from Metro's Office of the Board Secretary by calling (202) 962-2511.

The WMATA Board of Directors has authorized the FY2022 Budget public hearing, as required by the WMATA Compact and the Federal Transit Administration (FTA). The proposed parking rate adjustments, service changes, and capital program (including the proposed use of FTA and other federal grant funds) for FY2022 are described in detail in the attached dockets. For the service changes, these proposals represent the maximum changes that the Board may adopt as part of the FY2022 budget. The Board may ultimately choose to authorize lesser changes, or no changes at all.

PROPOSAL FOR DOCKET B21-01: Proposed FY2022 Capital Improvement Program and Federal FY2021 Grant Applications

Overview

WMATA is committed to improving the safety, reliability, and affordability of its system by substantially improving its assets — from rail stations, tracks and traction power infrastructure to the vehicles, maintenance facilities and cooling systems — and providing a better transit experience for hundreds of thousands of customers each day.

The proposed FY2022 capital budget of \$2.6 billion and six-year capital plan of \$12.3 billion include investment in ongoing projects, prioritized system preservation and renewal needs from the Capital Needs Forecast and asset management and reliability plans. Over the past four years, Metro has spent over \$6 billion on capital investments. Capital delivery exceeded annual investment goals in FY2020 with actual capital spending of \$1.7 billion. This was 98% of the FY2020 budgeted amount and represents the fourth year that Metro has exceeded the target of 95% for capital funds invested.

Capital program publications detail the following:

- Capital Needs Forecast identifying a total of \$22.5 billion in investment needs unconstrained by cost or execution capacity.

- Capital Program Strategy outlining the vision and goals for capital investments.
- 10-Year Capital Plan projecting \$22.0 billion in investments constrained by delivery capacity for major projects. (Note: Due to delivery capacity constraint, there are potentially significant investment needs beyond the 10-year planning horizon.)
- Six-year Capital Improvement Program of \$12.3 billion and a FY2022 capital budget of \$2.6 billion with a list of priority projects and programs constrained by affordability and delivery capacity.

Major capital program investments to further improve service and customer experience include:

- **Railcar.** Major **vehicle** investments include the 7000- and 8000-series railcar acquisition programs. Major **facilities and systems** investments include the public address system, Heavy Repair and Overhaul Facility, and rehabilitation of railyards, and the railcar wash.
- **Rail Systems.** Major investments include Automatic Train Control, Traction Power state of good repair, AC power, radio infrastructure and Emergency Trip Station system replacement.
- **Track and Structures Rehabilitation.** Major investments include track rehabilitation and maintenance; tunnel remediation and water leak mitigation; and bridge and aerial structural rehabilitation.
- **Station and Passenger Facilities.** Major investments include Fire and Life Safety system improvements; station infrastructure rehabilitation, replacement, and improvements; parking garage, surface lot, canopy, and elevator rehabilitations; passenger information, lighting, and station cooling system work.
- **Bus and Paratransit.** Major **vehicle** investments include bus acquisition and rehabilitation and paratransit vehicle purchases. Major **facilities** investments include Northern and Bladensburg garage replacements and Montgomery and Four Mile Run garage rehabilitation; closed circuit television, shelter, stop accessibility, display signs, and terminal rehabilitation.
- **Business and Operations Support.** Major investments include office construction in DC, MD, and VA; data center replacement; enterprise IT infrastructure state of good repair; service vehicle replacement; roof rehabilitation and replacements; and environmental compliance.

The six-year plan includes reimbursable projects such as the Silver Line, the Potomac Yard infill station, and Purple Line connectivity.

Financial Plan by Investment Category

Capital Investment Categories (\$M)	FY2022 Budget	FY2023 -FY2027 Plan	6-Year Total
Railcar	\$342	\$2,253	\$2,595
Rail Systems	\$273	\$1,318	\$1,591
Track and Structure Rehabilitation	\$343	\$1,455	\$1,798
Stations and Passenger Facilities	\$792	\$1,726	\$2,518
Bus and Paratransit	\$294	\$1,653	\$1,947

Business and Operations Support	\$546	\$1,341	\$1,887
Total Capital Investments	\$2,591	\$9,745	\$12,336
Revenue Loss from Capital Projects	\$17	\$50	\$67
Debt Service - Dedicated Funding ¹	\$0	\$1,306	\$1,306
Total Capital Program Cost	\$2,608	\$11,101	\$13,709

Capital Program Funding Sources

Funding Sources (\$M)	FY2022 Proposed Budget	6-Year Total
Federal Grants		
Formula and Other Grants	\$337	\$1,981
PRIIA ²	\$149	\$149
Subtotal Federal Grants	\$486	\$2,130
State and Local Contribution³		
District of Columbia	\$327	\$1,998
State of Maryland	\$311	\$1,907
Commonwealth of Virginia	\$288	\$1,780
Subtotal State and Local	\$926	\$5,685
Jurisdiction Reimbursable Projects	\$157	\$191
Metropolitan Washington Airports Authority	\$13	\$55
Debt and Other Fund Sources	\$1,027	\$5,649
Grand Total	\$2,608	\$13,709

1. Debt service projections are preliminary estimates.
2. Does not assume reauthorization of Federal Passenger Rail Investment and Improvement Act of 2008 (PRIIA).
3. As is required by the Draft CFA, the Operating Subsidy formula splits, weighted by the mix of approved CIP projects and programs will determine the final alignment of Allocated Contributions by Contributing Jurisdiction.
4. Numbers may not sum due to rounding.

Federal Support for the Capital Improvement Program (CIP)

The proposed FY2022-2027 CIP includes funding from various Federal Transit Administration (FTA) programs including the Urbanized Area Formula Program (49 U.S.C. 5307, or "Section 5307"). FTA requires that recipients of Section 5307 grant funding annually conduct a public hearing of the grant funded projects, therefore a public hearing on the proposed FY2022 capital program is required.

WMATA intends to apply for Federal Fiscal Year 2021 grants under the Fixing America's Surface Transportation (FAST) Act and the Further Consolidated Appropriations Act, 2020 (H.R. 1865) to support ongoing capital investments. These applications will be filed under the provisions of FAST (P.L. 114-94) and PRIIA (P.L. 110-432).

The FTA apportions funds to the Washington DC Metropolitan Region under the FAST Act, and this regional funding is distributed between WMATA, the Potomac and Rappahannock Transportation Commission (PRTC), and the Maryland Transit Administration (MTA) subject to a pre-existing agreement. In Federal FY2020, the region was apportioned \$382 million and under the agreement WMATA received approximately 86 percent of the total FTA formula funding for the region. The FTA has not yet announced the regional apportionment for Federal FY2021, but if funding remains consistent with the prior year WMATA's share will be approximately \$321 million. With the addition of \$4 million in federal funding from the Northern Virginia Transportation Authority (NVTA), planned federal grant support totals \$325 million, excluding competitive grant opportunities.

Additionally, WMATA estimates \$148.5 million will be available to the agency through a direct federal grant, as a continuation of the funding partnership between the federal government and the District of Columbia, Maryland, and Virginia, which has been in effect since 2009, and provides critical resources to WMATA for safety improvements, railcar purchases, and other important state of good repair investments.

In accordance with Board policy, WMATA intends to apply for these grant funds within four weeks of the Board's adoption of the capital budget, which is currently scheduled for March 2021. WMATA also intends to submit the final Program of Projects to the National Capital Region Transportation Planning Board (TPB) as input to the updated Transportation Improvement Program (TIP) for the Washington metropolitan area. Additional public involvement in the planning and programming of capital funds occurs through the TPB, the designated Metropolitan Planning Organization (MPO) for the Washington region. The TPB holds forums for public review and comment on the TIP. These forums cover not only funding, but also critical regional issues regarding air quality conformity, land use coordination, and investments to address future population and employment growth.

PROPOSAL FOR DOCKET B21-02: Proposed FY2022 Operating Budget and Related Service and Parking Fee Proposals

Overview

WMATA's Proposed FY2022 Operating Budget totals \$1.89 billion, not including operating reimbursables and debt service. It includes a base operating budget at \$1.112 billion plus legislatively excluded costs totaling \$42 million for health and safety mandate compliance and Silver Line Phase 2 revenue service. The total subsidy is \$1.153 billion.

The proposed operating budget includes utilizing an additional \$514.5 million of federal funding, constrained jurisdiction subsidies and ridership projected at 34% of pre-pandemic levels resulting in an operating gap of almost \$210 million. The proposed budget assumes that during the second half of the fiscal year the proposed service reductions would need to take place to balance the FY2022 budget. The table below summarizes the overall budget and the proposed changes are described in depth in the subsequent attachment.

	FY2021 Budget	FY2021	FY2022
<i>\$ and Trips in Millions</i>	Pre-Covid-19	Nov Amended Budget¹	Proposed Budget
Ridership	313.9	61.0	77.5
Revenue	\$823.7	\$182.6	\$222.0
Expense	\$2,070.0	\$1,840.5	\$1,889.5 ²
Operating Deficit	\$1,246.3	\$1,657.9	\$1,667.5
CARES Act	-	\$546.3	-
CRSSAA	-	-	\$514.5
Net	\$1,246.3	\$1,111.6	\$1,153.1
Subsidy	\$1,246.3	\$1,111.6	\$1,153.1

1. FY2021 may be updated pending Board consideration of proposed FY2021 budget amendment

2. Excludes operating reimbursables. With operating reimbursables, total expense is \$1.90 billion

SERVICE PROPOSALS FOR PUBLIC INPUT AND CONSIDERATION

The proposed budget assumes that during the second half of the fiscal year the proposed service reductions would need to take place to balance the FY2022 budget.

Specific Metrorail and Metrobus service changes include:

Proposed Metrorail Service Changes

Under this proposal, Metrorail would operate the February 2021 service levels (approximately 80 percent of pre-pandemic levels) for the first six months (July – December 2021) of FY2022, and then would need to reduce service to approximately 30 percent of pre-pandemic levels beginning January – June 2022 to achieve a balanced budget.

1. Standardize Weekday Rail Service Frequencies

Blue, Orange, Green, Yellow and Silver Line weekday headways would increase to 30 minutes all day from 12 minutes all day.

Red Line weekday headways would increase to 30 minutes all day from 6 minutes all day.

2. Standardize Weekend Rail Service Frequencies

Blue, Orange, Green, Yellow and Silver Line weekend headways would increase to 30 minutes all day from 15 minutes all day.

Red Line weekend headways would increase to 30 minutes all day from 12 minutes all day.

3. Implement Turnbacks on the Red Line

Additional 30-minute service would operate between Grosvenor-Strathmore and Silver Spring only, for a combined headway of 15 minutes on the Red Line between these stations, 7-days per week, Monday through Sunday. Headways from Grosvenor-Strathmore to Shady Grove and Silver Spring to Glenmont remain at 30-minutes. If Grosvenor-Strathmore is closed, the last station to transfer to a train to continue to Shady Grove would be Medical Center.

4. Implement Turnbacks on the Yellow Line

All Yellow Line trains operate between Huntington and Mt Vernon Sq 7-days per week, Monday through Sunday. If Mt Vernon Sq is closed, the last station to transfer to a train continuing to Greenbelt would be Gallery Place.

5. Close Rail Earlier Monday Through Sunday

The Metrorail system would close at 9 pm Monday through Sunday instead of 11 pm.

6. Close 22 Metrorail stations

Due to low ridership levels and to save resources, the following 22 Metrorail stations are proposed to be closed to customers for FY22.

1. Smithsonian
2. Arlington Cemetery

3. Federal Center SW
4. Federal Triangle
5. Mt Vernon Sq
6. Judiciary Sq
7. Archives
8. Greensboro
9. Eisenhower Ave
10. Virginia Sq-GMU
11. Cleveland Park
12. Grosvenor-Strathmore
13. Cheverly
14. Clarendon
15. East Falls Church
16. College Park-U of Md
17. McLean
18. Morgan Blvd
19. Van Dorn St
20. Reston Town Center
21. Innovation Center
22. Loudoun Gateway

Proposed Metrobus Service Changes

FY22 Proposed Metrobus Service

Specific proposals for each Metrobus line are included in the tables by jurisdiction on the subsequent pages. The table below provides a legend which provides a brief summary of how each line is affected:

	Continues to operate at current service level
	Service is modified providing partial coverage on the line, or another line has been modified to provide a partial replacement for that line
	Service is currently operating and will no longer be served in the proposed plan
	Currently not operating and will continue to not operate
n/a	There was no service on this line pre-pandemic on this service day

FY22 Proposed Metrobus Consolidated Route Network Service Plan 2nd half of FY22 (January 1 to June 30, 2022)

Under this proposal, Metro will only be able to afford to offer 50% of its pre-pandemic bus service. In order to serve as many customers as possible, three key criteria were used in developing this bus service plan:

Ridership Demand - where riders are TODAY (not pre-pandemic, not where demand may build in the future)

Equity / Essential Travel – as today's ridership skews to the low income who rely on Metro for essential travel to groceries, medical appointments and daily necessities, the routes also support access to jobs in health care at hospitals and in other sectors.

Redundancy – consolidating multiple bus routes on the same corridor. Also, where most efficient, taking advantage of transfer opportunities.

While this proposal was designed to serve currently essential trips in the pandemic, it is otherwise trip purpose agnostic.

Most importantly, this proposal was designed to make the best use of projected budget dollars. Metro expects public comments to inform any final decisions on the proposed routes.

FY2022 Proposed Service Plans – District of Columbia

Rte	Line Name	Revised Proposal for 1st half FY22			Revised Proposal for 2nd half FY22		
		Weekday Status	Sat/Sun Status	Description	Weekday Status	Sat/Sun Status	Description
30N	Friendship Heights-Southeast			All stops covered by 31,33 & 32,36, eliminates one-seat trips from SE to NW			All stops covered by 31,33 & 32,36, eliminates one-seat trips from SE to NW
30S							
31	Wisconsin Avenue			Maintain FY21 span & frequency, add service until 2 am 7-day-a-week on route 33			Maintain FY21 span & frequency (all service terminates at midnight)
33							
32	Pennsylvania Avenue			Maintain FY21 span & frequency, add service until 2 am 7 days-a-week			Maintain FY21 span & frequency (all service terminates at midnight)
34							
36							
37	Wisconsin Avenue Limited		n/a	Continue suspension until crowding on adjacent services warrants restoration		n/a	Maintain no service
39	Pennsylvania Avenue Limited		n/a	Continue suspension until crowding on adjacent services warrants restoration		n/a	Maintain no service
42	Mount Pleasant			Maintain FY21 span & frequency / eliminate Farragut Sq. to Gallery Place segment			Maintain FY21 span & frequency / eliminate Farragut Sq. to Gallery Place segment
43							
52	14th Street			Maintain FY21 span & frequency, add service until 2 am 7-day-a-week on route 52 with Takoma extension			Maintain FY21 span & frequency (all service terminates at midnight)
54							
59	14th Street Limited		n/a	Maintain FY21 span & frequency		n/a	Eliminate line, add some additional route 54 trips, all stops covered, eliminates limited-stop service
60	Fort Totten-Petworth		n/a	Restore service on route 60. Maintain FY21 span & frequency on route 64		n/a	Maintain no service on route 60 / Maintain FY21 span & frequency on route 64 between Ft. Totten and Petworth, eliminate service south of Petworth
64							
62	Takoma-Petworth			Operate all route 63 trips as route 62 trips, eliminate route 63. Maintain FY21 span & frequency on weekdays,			Eliminate entire line on weekdays (already not operating on Sat/Sun)
63							

Rte	Line Name	Revised Proposal for 1st half FY22			Revised Proposal for 2nd half FY22		
		Weekday Status	Sat/Sun Status	Description	Weekday Status	Sat/Sun Status	Description
				restore weekend route 62 service			
70	Georgia Avenue-7th Street			Maintain FY21 span & frequency, add service until 2 am 7 days-a-week			Maintain FY21 span & frequency (all service terminates at midnight)
74	Convention Center-Southwest Waterfront			Maintain FY21 span & frequency			Eliminate entire line
79	Georgia Avenue Limited			Maintain FY21 span & frequency			Maintain FY21 span & frequency
80	North Capitol Street			Maintain FY21 span & frequency / add service until 2 am 7 days-a-week / eliminate service between McPherson Sq. and Kennedy Center			Maintain FY21 span & frequency / eliminate service between Union Sta. and Kennedy Ctr. / add service from Union Sta. to Federal Triangle to replace segment of D6 (all service terminates at midnight)
90	U Street-Garfield			Maintain FY21 span & frequency, add service until 2 am 7 days-a-week on route 92			Maintain FY21 span & frequency (all service terminates at midnight)
92							
96	East Capitol Street-Cardozo			Maintain FY21 span & frequency			Eliminate service between Tenleytown and Union Sta. / maintain FY21 span & freq. from Union Sta. to E. Capitol & MN Ave. / new alignment to replace U5, V8 and W4 segments between E. Cap. & MN Ave. and Deanwood
97			n/a			n/a	
A2	Anacostia-Congress Heights			Maintain FY21 span & frequency, add service until 2 am 7 days-a-week on routes A6 and A8			Combine service into one alignment from Anacostia to Congress Heights via MLK, S. Capitol, Southern Ave, Wheeler Rd. and Alabama Ave. / W4 realigned to replace A2 service on 6th & MS Ave. / New service added 7 days-a-week 30 min. freq. to serve Condon Terrace & Livingston Loop to Congress Hts. Sta. (all service terminates at midnight)
A6							
A7			n/a			n/a	
A8							
A4	Anacostia-Fort Drum			Maintain FY21 span & frequency			Eliminate line, route W4 is modified to replace service between Chesapeake & MLK and DC

Rte	Line Name	Revised Proposal for 1st half FY22			Revised Proposal for 2nd half FY22		
		Weekday Status	Sat/Sun Status	Description	Weekday Status	Sat/Sun Status	Description
W5			n/a			n/a	Village, A8 still covers other stops on MLK Ave. / Service to Coast Guard HQ is eliminated, no service at W5 only stops
A9	M. L. King Jr. Avenue Limited		n/a	Maintain no service		n/a	Maintain no service
A31	Minnesota Ave-Anacostia		n/a	Maintain FY21 span & frequency		n/a	Eliminate entire line
A32			n/a			n/a	
A33			n/a			n/a	
B2	Bladensburg Road-Anacostia			Maintain FY21 span & frequency			Eliminate service between Mt. Rainier and Bladensburg Rd. & Eastern Ave. / Eliminate service between 14th/15th & C/D Sts. NE and Anacostia Sta. / Route V2 increased to replace MN & PA Ave. to Anacostia segment / route modified to replace route D6 between 14th/15th & C/D Sts. NE and Union Sta. and replace B8,9/H6 service in Ft. Lincoln
B8	Fort Lincoln Shuttle		n/a	Maintain no service		n/a	Maintain no service / Modified B2 replaces service in Ft. Lincoln
B9			n/a			n/a	
D1	Glover Park-Franklin Square		n/a	Continue suspension until crowding on adjacent services warrants restoration		n/a	Maintain no service
D2	Glover Park-Dupont Circle			Maintain FY21 span & frequency on weekdays, restore Saturday & Sunday service			Eliminate entire line / Modified N6 replaces service between Dupont Circle and Benton St. & Tunlaw Rd. with new service on Tunlaw Rd. between Benton St. & NM Ave.
D4	Ivy City-Franklin Square			Maintain FY21 span & frequency			Eliminate entire line
D5	MacArthur Blvd-Georgetown		n/a	Continue suspension until crowding on adjacent services warrants restoration		n/a	Maintain no service
D6	Sibley Hospital - Stadium-Armory			Maintain FY21 span & frequency			Eliminate entire line / Modified route N6 replaces service between Sibley Hospital and MacArthur Bl. & AZ Ave. and service between Dupont Cir. And Reservoir & 37th / Modified route 80 replaces service on E St. NW / Modified B2 replaces service between Union Sta. and C/D & 14th/15th Sts. NE
D8	Hospital Center			Maintain FY21 span & frequency			Eliminate entire line
D31	16th St-Tenleytown		n/a			n/a	Eliminate entire line

Rte	Line Name	Revised Proposal for 1st half FY22			Revised Proposal for 2nd half FY22		
		Weekday Status	Sat/Sun Status	Description	Weekday Status	Sat/Sun Status	Description
D32			n/a	Maintain FY21 span & frequency		n/a	
D33			n/a			n/a	
D34			n/a			n/a	
D51	Congress Heights-Georgetown		n/a	Maintain FY21 span & frequency		n/a	Eliminate entire line
E2	Ivy City-Fort Totten			Maintain FY21 span & frequency on weekdays, restore Saturday & Sunday service			Maintain FY21 span & frequency on weekdays, restore Saturday & Sunday service
E4	Military Road-Crosstown			Maintain FY21 span & frequency			Maintain FY21 span & frequency
E6	Chevy Chase		n/a	Extend route M4 to Knollwood, restore full route when ridership warrants restoration		n/a	Maintain no service
G2	P Street-LeDroit Park			Maintain FY21 span & frequency on weekdays, restore Saturday & Sunday service			Eliminate entire line (already not operating on Sat/Sun)
G8	Rhode Island Avenue			Maintain FY21 span & frequency, add service until 2 am 7 days-a-week			Maintain FY21 span & frequency (all service terminates at midnight)
G9	Rhode Island Ave Limited		n/a	Continue suspension until crowding on adjacent services warrants restoration		n/a	Maintain no service
H1	Brookland-Potomac Park		n/a	Continue suspension until crowding on adjacent services warrants restoration		n/a	Maintain no service
H2	Crosstown			Maintain FY21 span & frequency, add service until 2 am 7 days-a-week on route H4			Maintain FY21 span & frequency / modify H2 to operate via Columbia Rd. and Calvert St. to CT Ave. and eliminate service on Adams Mill & Harvard / modify H2 and H4 to replace L1,2 service on CT Ave. north to Western Ave. and extend H2,4 to Friendship Hts. service between CT Ave. and Tenleytown is eliminated (all service terminates at midnight)
H3			n/a			n/a	
H4							
H6	Brookland-Fort Lincoln			Maintain FY21 span & frequency			Eliminate entire line, modified route B2 replaces service in Ft. Lincoln

Rte	Line Name	Revised Proposal for 1st half FY22			Revised Proposal for 2nd half FY22		
		Weekday Status	Sat/Sun Status	Description	Weekday Status	Sat/Sun Status	Description
H8	Park Road-Brookland			Maintain FY21 span & frequency			Eliminate entire line
H9			n/a			n/a	
K2	Takoma-Fort Totten		n/a	Maintain FY21 span & frequency		n/a	Eliminate entire line
L1	Connecticut Avenue		n/a	Maintain FY21 span & frequency on route L2 / Add service until 2 am 7 days-a-week on route L2 / Continue suspension on route L1 until crowding on adjacent services warrants restoration		n/a	Eliminate entire line (L1 already not operating) / All L2 stops covered by either route 42,43 or modified route H2,4
L2							
M4	Nebraska Avenue		n/a	Maintain FY21 span & frequency, extend service from Pinehurst Circle to Knollwood until ridership warrants restoration of route E6		n/a	Eliminate entire line, modified route N6 replaces service south of MA Ave.
M6	Fairfax Village			Maintain FY21 span & frequency on weekdays, restore Saturday & Sunday service			Eliminate entire line (already not operating on Sat/Sun)
N2	Massachusetts Avenue		n/a	Maintain FY21 span & frequency.		n/a	Modify route N6 to replace D2 from Dupont Circle to Tunlaw Road, serve Cathedral Hts. Via NM Ave. NE Ave. MA Ave, ID Ave. and Cathedral Ave. then replace route M4 south of NM Ave. / service east of ID Ave. and north/west of NE & MA Ave. is eliminated
N4			n/a			n/a	
N6							
P6	Anacostia-Eckington			Maintain FY21 span & frequency, add service until 2 am 7 days-a-week between Anacostia and Archives			Eliminate entire line.
S1	16th Street-Potomac Park		n/a	Continue suspension until crowding on adjacent services warrants restoration		n/a	Maintain no service
S2	16th Street			Maintain FY21 span & frequency, add service until			Reduce weekday frequency from FY21 levels, maintain FY21 span and FY21 Sat/Sun frequency (all service terminates at midnight)
S9	16th Street Limited						

Rte	Line Name	Revised Proposal for 1st half FY22			Revised Proposal for 2nd half FY22		
		Weekday Status	Sat/Sun Status	Description	Weekday Status	Sat/Sun Status	Description
				2 am 7 days-a-week on route S2			
S35	Fort Dupont Shuttle		n/a	Maintain FY21 span & frequency		n/a	Eliminate entire line
S41	Rhode Island Ave-Carver Terrace		n/a	Maintain FY21 span & frequency		n/a	Eliminate entire line
U4	Sheriff Road-River Terrace			Maintain FY21 span & frequency			Eliminate entire line
U5	Marshall Heights			Maintain FY21 span & frequency, add service until 2 am 7 days-a-week on route U5			Eliminate entire line, modified route 96 replaces service on U5 alignment between MN Ave. & Ridge Rd. and TX Ave. & E St. as well as U5,6 alignment through Marshall Heights
U6							
U7	Deanwood-Minnesota Ave			Maintain FY21 span & frequency			Operate 30 min. freq. 7 day-a-week between Minnesota Ave. Sta. and Deanwood Sta. (eliminate Ridge Rd. extension)
V1	Benning Heights-M St		n/a	Continue suspension until crowding on adjacent services warrants restoration		n/a	Maintain no service
V2	Capitol Heights-Minnesota Ave			Maintain FY21 span & frequency, add service until 2 am 7 days-a-week			Eliminate route V4 and convert to route V2 trips. Maintain FY21 span & frequency between Capitol Heights and MN & PA Ave. Replace B2 trips with V2 trips between PA & MN Ave. and Anacostia (all service terminates at midnight)
V4							
V7	Benning Heights-Alabama Ave		n/a	Maintain FY21 span & frequency		n/a	Replace route V7 with modified route W4, maintain FY21 span & frequency on Benning Road between MN Ave. and H St. SE with modified route W4, replace service on H St. and AL Ave. SE with modified route 96
V8							
W1	Shipley Terrace-Fort Drum		n/a	Maintain FY21 span & frequency		n/a	Eliminate entire line
W2	United Medical Center-Anacostia			Maintain FY21 span & frequency, add service until 2 am 7 days-a-week between Anacostia Sta. and			Modify route W2 to operate between Anacostia Sta. and United Medical Center via existing route between Anacostia and Alabama Ave. then via Alabama Ave., Stanton Rd., MS Ave. and Southern

Rte	Line Name	Revised Proposal for 1st half FY22			Revised Proposal for 2nd half FY22		
		Weekday Status	Sat/Sun Status	Description	Weekday Status	Sat/Sun Status	Description
W3				Alabama Ave. & Irving St. only			Ave. Service between Anacostia and Washington Overlook is eliminated and service to Good Hope Marketplace and Shipley Terrace is eliminated (all service terminates at midnight)
W4	Deanwood-Alabama Avenue			Maintain FY21 span & frequency, add service until 2 am 7 days-a-week			Modify route to maintain FY21 span & frequency between Benning Road & East Capitol St. and Alabama Ave. & 6th St. SE, modify northern end of route via Benning Rd. and MN Ave. to MN Ave. Sta. Modify southern end to operate via 6th St. and MS Ave. SE to replace route A2 and then route A4 from Chesapeake & MLK Ave. to DC Village (all service terminates at midnight)
W6	Garfield-Anacostia Loop			Maintain FY21 span & frequency			Eliminate entire line
W8							
W45	Mt. Pleasant-Tenleytown		n/a	Maintain FY21 span & frequency		n/a	Eliminate entire line
W47			n/a			n/a	
X1	Benning Road		n/a	Maintain route X3 school hour trips. Continue suspension of remaining trips until crowding on adjacent services warrants restoration		n/a	Maintain no service
X3			n/a			n/a	
X2	Benning Road-H Street			Maintain FY21 span & frequency, add service until 2 am 7 days-a-week			Maintain FY21 span & frequency (all service terminates at midnight)
X8	Maryland Avenue			Maintain FY21 span & frequency on weekdays, restore Saturday & Sunday service			Eliminate entire line
X9	Benning Rd-H St Limited		n/a	Maintain FY21 span & frequency		n/a	Maintain FY21 span & frequency, eliminate route segment between MN Ave. Sta. and Capitol Heights Sta.

FY2022 Proposed Service Plans – Maryland

Rte	Line Name	Revised Proposal for 1st half FY22			Revised Proposal for 2nd half FY22		
		Weekday Status	Sat/Sun Status	Description	Weekday Status	Sat/Sun Status	Description
83	College Park			Maintain FY21 span & frequency			Eliminate route 86, modify route 83 north of College Park Sta. to replace route C2 between College Park and Greenbelt / service to Cherry Hill is eliminated
86							
87	Laurel Express		n/a	Continue suspension until crowding on adjacent services warrants restoration		n/a	Maintain no service
89	Laurel		n/a	Maintain FY21 span & frequency		n/a	Eliminate entire line
89 M			n/a			n/a	
A12	Martin Luther King Jr. Hwy			Maintain FY21 span & frequency, add service until 2 am 7 days-a-week			Maintain FY21 span & frequency (all service terminates at midnight)
B21	Bowie State University		n/a	Maintain FY21 span & frequency		n/a	Eliminate entire line
B22			n/a			n/a	
B24	Bowie-Belair		n/a	Maintain FY21 span & frequency		n/a	Eliminate entire line
B27	Bowie-New Carrollton		n/a	Maintain FY21 span & frequency		n/a	Eliminate entire line
B29	Crofton-New Carrollton		n/a	Eliminate entire line. Extend route C26 to Bowie Gateway Center and Bowie Park-and-Ride. Eliminate service to Crofton		n/a	Maintain no service
B30	Greenbelt-BWI Airport Express		n/a	Maintain no service		n/a	Maintain no service
C2	Greenbelt-Twinbrook			Maintain FY21 span & frequency, add service until 2 am 7 days-a-week on route C4			Eliminate route C2, modify route C4 to operate on FY21 combined C2,4 span & frequency between Prince Georges Plaza and Rockville via route C4 alignment between Prince Georges Plaza and Wheaton and route Q4 alignment between Wheaton and Rockville (all service terminates at midnight)
C4							

Rte	Line Name	Revised Proposal for 1st half FY22			Revised Proposal for 2nd half FY22		
		Weekday Status	Sat/Sun Status	Description	Weekday Status	Sat/Sun Status	Description
C8	College Park-White Flint			Maintain FY21 span & frequency			Maintain FY21 span & frequency
C11	Clinton			Maintain FY21 span & frequency			Eliminate entire line
C13							
C12	Hillcrest Heights			Maintain FY21 span & frequency on weekdays, restore Saturday service			Eliminate entire line (line never had Sunday service, Saturday service currently not operating)
C14							
C21	Central Avenue		n/a	Maintain FY21 span & frequency, extend route C26 to Bowie Park-and-Ride via Bowie Gateway Center to partially replace service on routes B29 & C28		n/a	Maintain FY21 span & frequency
C22			n/a			n/a	
C26			n/a			n/a	
C29		n/a			n/a		
C28	Pointer Ridge		n/a	Eliminate entire line, extend route C26 to Bowie Park-and-Ride to partially replace service		n/a	Maintain no service
D12	Oxon Hill-Suitland			Maintain FY21 span & frequency, add service until 2 am 7 days-a-week on route D12			Eliminate routes D13 & D14. Modify route D12 to operate from Suitland Sta. to Oxon Hill & Livingston Rds. Then via route NH1 alignment to National Harbor. Route D12 service between Oxon Hill & Livingston Rds. And Southern Ave, Sta. is eliminated (all service terminates at midnight)
D13			n/a			n/a	
D14							
F1	Chillum Road			Maintain FY21 span & frequency			Eliminate entire line
F2							
F4	New Carrollton-Silver Spring			Maintain FY21 span & frequency, add service until 2 am 7 days-a-week			Maintain FY21 span & frequency (all service terminates at midnight)
F6	New Carrollton-Fort Totten		n/a	Maintain FY21 span & frequency		n/a	Eliminate entire line
F8	Langley Park - Cheverly			Maintain FY21 span & frequency			Eliminate entire line
F12	Ardwick Industrial Park Shuttle		n/a	Maintain FY21 span & frequency		n/a	Eliminate entire line
F13	Cheverly-Washington Business Park		n/a	Maintain FY21 span & frequency		n/a	Eliminate entire line

Rte	Line Name	Revised Proposal for 1st half FY22			Revised Proposal for 2nd half FY22		
		Weekday Status	Sat/Sun Status	Description	Weekday Status	Sat/Sun Status	Description
F14	Sheriff Road-Capitol Heights			Maintain FY21 span & frequency			Maintain FY21 span & frequency
G12	Greenbelt-New Carrollton			Maintain FY21 span & frequency			Eliminate route G12, maintain FY21 span & frequency on route G14
G14							
H11	Marlow Heights-		n/a	Maintain FY21 span & frequency		n/a	Eliminate entire line
H12	Temple Hills						
H13			n/a			n/a	
J1	Bethesda-Silver Spring		n/a	Operate J1 trips as J2 trips, Maintain FY21 span & frequency on route J2, add service until 2 am 7 days-a-week		n/a	Operate J1 trips as J2 trips, Maintain FY21 span & frequency on route J2 (all service terminates at midnight)
J2							
J4	College Park-Bethesda Limited		n/a	Continue suspension until crowding on adjacent services warrants restoration		n/a	Maintain no service
J12	Marlboro Pike			Maintain FY21 span & frequency			Eliminate line, modified route K12 replaces service between Capitol Heights Sta. and Silver Hill Road
K6	New Hampshire Avenue-Maryland			Maintain FY21 span & frequency, add service until 2 am 7 days-a-week / Revert to pre-pandemic schedule when route K9 is restored			Maintain FY21 span & frequency (all service terminates at midnight)
K9	New Hampshire Avenue-MD Limited		n/a	Continue suspension until crowding on adjacent services warrants restoration		n/a	Maintain no service
K12	Forestville			Maintain FY21 span & frequency			Modify route to operate via existing route from Branch Ave. Sta. to Silver Hill Road, then operate via route J12 from Silver Hill Road and Capitol Heights Sta. Service between PA Ave. & Silver Hill Rd. and Suitland Sta. is eliminated
L8	Connecticut Avenue-Maryland		n/a	Maintain FY21 span & frequency		n/a	Eliminate entire line
NH1	National Harbor-Southern Ave			Maintain FY21 span & frequency			Eliminate entire line, modified route D12 replaces service between Wheeler & St. Barnabas and National Harbor

Rte	Line Name	Revised Proposal for 1st half FY22			Revised Proposal for 2nd half FY22		
		Weekday Status	Sat/Sun Status	Description	Weekday Status	Sat/Sun Status	Description
NH2	National Harbor-Alexandria			Maintain FY21 span & frequency on weekdays, restore Saturday & Sunday service			Eliminate entire line (already not operating on Sat/Sun)
P12	Eastover-Addison Road			Maintain FY21 span & frequency, add service until 2 am 7 days-a-week			Maintain FY21 span & frequency (all service terminates at midnight)
P18	Oxon Hill-Fort Washington		n/a	Maintain FY21 span & frequency		n/a	Eliminate entire line
P19			n/a			n/a	
Q1	Veirs Mill Road			Maintain FY21 span & frequency			Eliminate entire line, modified route C4 replaces service on Veirs Mill Road, all remaining stops are covered by other service
Q2							
Q4							
Q5							
Q6							
R1	Riggs Road		n/a	Maintain FY21 span & frequency		n/a	Eliminate route R1, maintain FY21 span & frequency on route R2
R2							
R4	Queens Chapel Road			Maintain FY21 span & frequency			Eliminate entire line
R12	Kenilworth Avenue			Maintain FY21 span & frequency on weekdays, restore Saturday service			Eliminate entire line (line never had Sunday service, Saturday service currently not operating)
T2	River Road		n/a	Maintain FY21 span & frequency		n/a	Eliminate entire line
T14	Rhode Island Avenue-New Carrollton			Maintain FY21 span & frequency on weekdays & Saturdays, restore Sunday service			Maintain FY21 span & frequency, restore Sunday service
T18	Annapolis Road			Maintain FY21 span & frequency, add service until 2 am 7 days-a-week			Maintain FY21 span & frequency (all service terminates at midnight)
V12	District Heights-Suitland			Maintain FY21 span & frequency			Eliminate entire line
V14	District Heights-Seat Pleasant			Maintain FY21 span & frequency on weekdays, restore Sunday service			Eliminate entire line
W14	Bock Road		n/a	Maintain FY21 span & frequency		n/a	Eliminate entire line
Y2	Georgia Avenue-Maryland			Maintain FY21 span & frequency, add service until 2 am 7 days-a-week on route Y2			Maintain FY21 span & frequency (all service terminates at midnight)
Y7							
Y8							
Z2	Colesville-Ashton		n/a	Maintain FY21 span & frequency		n/a	Eliminate entire line

Rte	Line Name	Revised Proposal for 1st half FY22			Revised Proposal for 2nd half FY22		
		Weekday Status	Sat/Sun Status	Description	Weekday Status	Sat/Sun Status	Description
Z6	Calverton-Westfarm			Maintain FY21 span & frequency			Eliminate entire line, modified Z8 replaces segment from Columbia Pike & Industrial Pkwy. To Broadbirch & Cherry Hill
Z7	Laurel-Old Columbia Pike Express		n/a	Maintain FY21 span & frequency		n/a	Eliminate entire line
Z8	Fairland			Maintain FY21 span & frequency, add service until 2 am 7 days-a-week			Modify route to operate existing alignment from Silver Spring to Columbia Pike & Industrial, then via route Z6 alignment to Broadbirch & Cherry Hill, then Cherry Hill to Randolph & Old Columbia Pike, then existing alignment to Greencastle. / Service between Columbia Pike & Industrial and Old Columbia Pike & Randolph is eliminated (all service terminates at midnight)

FY2022 Proposed Service Plans – Virginia

Rte	Line Name	Revised Proposal for 1st half FY22			Revised Proposal for 2nd half FY22		
		Weekday Status	Sat/Sun Status	Description	Weekday Status	Sat/Sun Status	Description
1A	Wilson Blvd-Vienna			Maintain FY21 span & frequency, add service until 2 am 7 days-a-week			Maintain FY21 span & Frequency. (all service terminates at midnight)
1B							
1C	Fair Oaks-Fairfax Blvd			Maintain FY21 span & frequency			Eliminate entire line
2A	Washington Blvd-Dunn Loring			Maintain FY21 span & frequency			Maintain FY21 span & frequency
2B	Fair Oaks-Jermantown Rd			Maintain FY21 span & frequency			Eliminate entire line
3A	Annandale Rd			Eliminate entire line, Fairfax Connector proposing replacement service			Eliminate entire line, Fairfax Connector proposing replacement service
3T	Pimmit Hills			Maintain no service, Fairfax Connector proposing replacement service			Maintain no service, Fairfax Connector proposing replacement service
3Y	Lee Highway-Farragut Square		n/a	Maintain no service		n/a	Maintain no service
4A	Pershing Dr-Arlington Blvd		n/a	Maintain FY21 span & frequency on route 4B. Continue suspension on route 4A until crowding on adjacent services warrants restoration		n/a	Eliminate entire line
4B							
5A	DC-Dulles			Eliminate entire line (when Silver Line Phase II opens)			Eliminate entire line
7A	Lincolnia-North Fairlington			Eliminate routes 7F & 7Y, Maintain FY21 span & frequency on a modified route 7A operating from Pentagon to Southern Towers on existing alignment, then Seminary, Kenmore, N. Van Dorn, Holmes Run, Ripley, Duke, Reynolds, Edsall, Pickett, S. Van Dorn to Van Dorn Street Sta. DASH is proposing replacement service on Beauregard St. (Alex Transit Vision Plan Recommendation) / Add service until 2 am 7 days-a-week			Eliminate routes 7F & 7Y, Maintain FY21 span & frequency on a modified route 7A operating from Pentagon to Southern Towers on existing alignment, then Seminary, Kenmore, N. Van Dorn, Holmes Run, Ripley, Duke, Reynolds, Edsall, Pickett, S. Van Dorn to Van Dorn Street Sta. DASH is proposing replacement service on Beauregard St. (Alex Transit Vision Plan Recommendation) (all service terminates at midnight)
7F							
7Y			n/a			n/a	
7C			n/a			n/a	Maintain no service

Rte	Line Name	Revised Proposal for 1st half FY22			Revised Proposal for 2nd half FY22		
		Weekday Status	Sat/Sun Status	Description	Weekday Status	Sat/Sun Status	Description
7P	Park Center-Pentagon		n/a	Continue suspension until crowding on adjacent services warrants restoration		n/a	
7M	Mark Center-Pentagon		n/a	Maintain FY21 span & frequency		n/a	Eliminate entire line
7W	Lincolnia-Pentagon		n/a	Maintain no service, DASH proposing replacement service		n/a	Maintain no service
8S	Foxchase-Seminary Valley		n/a	Partially replace route 8Z service with new route 21C between Duke & Pickett Sts. & Pentagon Sta. / Restore regular route 8W and 8Z service when ridership warrants		n/a	Maintain no service
8W			n/a			n/a	
8Z			n/a			n/a	
10A	Alexandria-Pentagon			Eliminate route 10N / Maintain FY21 span & frequency on route 10A / Continue suspension on route 10E until crowding on adjacent services warrants restoration / Add service until 2 am 7 days-a-week			Eliminate entire line, route 10A trips replaced with modified route 10B trips between Huntington and Mt. Vernon Ave. & S. Glebe Rd. Service is eliminated between S. Glebe Rd. and Pentagon Sta. (all service terminates at midnight)
10E			n/a			n/a	
10N							
10B	Hunting Point-Ballston			Maintain FY21 span & frequency			Modify route south of Washington & Franklin/Gibbon Sts. To operate via 10A alignment to Huntington Sta. Also modify route between Walter Reed & Columbia Pike and Glebe Rd. & 2nd St. S to operate via Columbia Pike and Glebe Road. Service is eliminated between Washington & Franklin/Gibbon Sts. and Hunting Point as well as between Walter Reed & Columbia Pike and Glebe Rd. and 2nd St. S
11Y	Mount Vernon Express		n/a	Restore service with modified route 11C between Mt. Vernon and Braddock Road Sta., restore full service to downtown DC when crowding on adjacent services warrants. Temporarily charge regular fare until service is restored to downtown DC		n/a	Maintain no service

Rte	Line Name	Revised Proposal for 1st half FY22			Revised Proposal for 2nd half FY22		
		Weekday Status	Sat/Sun Status	Description	Weekday Status	Sat/Sun Status	Description
15K	Chain Bridge Rd		n/a	Maintain no service, Fairfax Connector proposing replacement service		n/a	Maintain no service, Fairfax Connector proposing replacement service
16A	Columbia Pike			Maintain FY21 span & frequency, add service until 2 am 7 days-a-week on route 16E			Eliminate service on routes 16A & 16E, modify route 16C to operate from Army Navy Dr. & Eads St. via Eads, 12th/15th and Hayes St. (both directions) to Hayes & Army-Navy or eastbound from Columbia Pike & Joyce St. Also modify route between Columbia Pike & Jefferson St. to Leesburg & Columbia Pikes to operate via Jefferson and Leesburg Pike. Service on route 16C is eliminated on Columbia Pike and South Rotary Rd. between Joyce and Eads Sts., on Army-Navy Dr. between Eads and Hayes Sts. and on Columbia Pike between Jefferson St. and Leesburg Pike. All 16H stops on Columbia Pike will be served by route 16C (all service terminates at midnight)
16C							
16E							
16G	Columbia Pike-Pentagon City			Maintain FY21 span & frequency			Entire line is eliminated and replaced with additional modified 16C trips (making all stops on Columbia Pike)
16H							
16L	Annandale-Skyline City-Pentagon		n/a	Continue suspension until crowding on adjacent services warrants restoration		n/a	Maintain no service
16Y	Columbia Pike-Farragut Square		n/a	Continue suspension until crowding on adjacent services warrants restoration		n/a	Maintain no service
17B	Kings Park-North Springfield		n/a	Maintain FY21 span & frequency		n/a	Eliminate entire line
17M			n/a			n/a	
17G	Kings Park Express		n/a	Maintain FY21 span & frequency on routes 17G and 17H. Extend route 17H from Gainsborough & Commonwealth to the Twinbrook Dr. terminal on the route 17K alignment.		n/a	Eliminate entire line
17H			n/a			n/a	
17K			n/a			n/a	

Rte	Line Name	Revised Proposal for 1st half FY22			Revised Proposal for 2nd half FY22		
		Weekday Status	Sat/Sun Status	Description	Weekday Status	Sat/Sun Status	Description
17L			n/a	Continue suspension on route 17L until crowding on adjacent services warrants restoration		n/a	
18G	Orange Hunt		n/a	Restore service on route 18J /		n/a	Maintain no service
18H			n/a	Continue suspension on routes 18G and 18H until crowding on adjacent services warrants restoration		n/a	
18J			n/a			n/a	
18P	Burke Centre		n/a	Maintain FY21 span & frequency		n/a	Eliminate entire line
21A	Landmark-Bren Mar Park-Pentagon		n/a	Partially replace route 21A service with new route 21C between Stevenson & Walker and Reynolds & Duke, then operate via route 8Z alignment between Duke & Pickett and Pentagon Sta.		n/a	Maintain no service
21D			n/a			n/a	
22A	Barcroft-South Fairlington			Maintain FY21 span & frequency /			Eliminate entire line
22C			n/a	Extend route 22F from Beauregard & Filmore to Skyline City via route 28G alignment until ridership warrants restoration of route 28G		n/a	
22F			n/a			n/a	
23A	McLean-Crystal City			Restore weekday service on routes 23B and 23T. / Maintain FY21 span & frequency and Saturdays and Sundays. / Add service until 2 am 7 days-a-week on route 23B			Eliminate entire line, route 23A and 23B trips replaced with modified route 10B trips. Service is eliminated between Tysons Corner and Ballston, between Shirlington and Mt. Vernon Ave. & Russell Rd. and between Mt. Vernon Ave. & South Glebe Rd. and Crystal City Sta. (all service terminates at midnight)
23B							
23T							
25B	Landmark-Ballston			Modify route to operate between Ballston & Southern Towers only, 28A and 7A realignments replace some service south of Southern Towers (Alex Vision Plan Recommendations)			Eliminate entire line
26A	Annandale-East Falls Church		n/a	Restore service		n/a	Maintain no service
28A	Leesburg Pike			Modify route east of INOVA Alexandria Hospital to operate via Howard, Jordan and Duke Sts. To King St. Sta. Also modify route			Modify route east of INOVA Alexandria Hospital to operate via Howard, Jordan and Duke Sts. To King St. Sta. Also modify route between Seven Corners

Rte	Line Name	Revised Proposal for 1st half FY22			Revised Proposal for 2nd half FY22		
		Weekday Status	Sat/Sun Status	Description	Weekday Status	Sat/Sun Status	Description
				between Seven Corners and Broad & Washington Sts. To operate via Wilson, Roosevelt, Sycamore and Washington. Service is eliminated between Alexandria Hospital and King St. Station on King St. as well as on East Broad St. between Seven Corners and Washington St. / Add service until 2 am 7 days-a-week			and Broad & Washington Sts. To operate via Wilson, Roosevelt, Sycamore and Washington. Service is eliminated between Alexandria Hospital and King St. Station on King St. as well as on East Broad St. between Seven Corners and Washington St. (all service terminates at midnight)
28F	Skyline City		n/a	Restore route 28F service / Continue suspension on route 28G until ridership warrants restoration (route 22F is extended to Skyline City to partially replace route 28G)		n/a	Maintain no service
28G			n/a			n/a	
29C	Annandale		n/a	Continue suspension until crowding on adjacent services warrants restoration		n/a	Eliminate entire line.
29G			n/a			n/a	
29K	Alexandria-Fairfax			Maintain FY21 span & frequency			Maintain FY21 span & frequency
29N							
29W	Braeburn Dr-Pentagon Express		n/a	Maintain no service, Fairfax Connector proposing replacement service		n/a	Maintain no service, Fairfax Connector proposing replacement service
38B	Ballston-Farragut Square			Maintain FY21 span & frequency, add service until 2 am 7 days-a-week			Eliminate entire line.
MW1	Metroway - Potomac Yard			Maintain FY21 span & freq. weekdays, 30 min. freq. Sat. & Sun.			Eliminate entire line
NH2	National Harbor-Alexandria			Maintain FY21 span & frequency on weekdays, restore Saturday & Sunday service			Eliminate entire line
REX	Richmond Highway Express			Maintain FY21 span & frequency			Eliminate entire line

Maintain Current MetroAccess Service Area

The MetroAccess service area will not be impacted by any of the proposed Metrobus service changes or route eliminations and remain as is until July 1, 2022, at which time it may (a) be re-aligned to the ADA standard for paratransit service area or (b) remain unchanged.

PARKING FEE PROPOSAL FOR PUBLIC INPUT AND CONSIDERATION

Parking Fees

A daily commuter parking fee of \$4.95 at all Prince George's County Metrorail Stations, except at 1.) Addison Road and Prince George's Plaza where the daily commuter parking fee is proposed to be \$4.45, and 2.) Landover where the daily commuter parking fee will remain at \$3.00. The proposed fee changes are subject to the removal of the jurisdictional parking surcharge.

		CURRENT Fares/Fees	FY2022 Proposed Fare Options
Parking Fees			
60	· District of Columbia	\$4.45 - \$4.95	no change
61	· Montgomery County	\$4.45 - \$5.20	no change
62	· Prince George's County	\$3.00 - \$5.20	\$3.00 - \$4.95
63	· Virginia	\$3.00 - \$4.95	no change
64	· Monthly reserved parking fee	\$45.00 - \$65.00	no change
65	· Parking meters \$1.00/60 minutes	\$1.00	no change
66	· Prince George's parking garage at New Carrollton (monthly)	\$85.00	no change
67	· Non-Metro rider parking fees	\$7.50 - \$15.00	no change
68	· Special event parking fees	up to \$25.00	no change

REFERENCE MATERIAL AVAILABLE FOR REVIEW – The proposed WMATA FY 2022-2027 Capital Improvement Program is included in the WMATA FY2021 Proposed Budget, which is available online at wmata.com.

This public notice of the public hearing and the time established for public review and comments on the Program of Projects satisfies public participation requirements. The program of projects outlined in the FY2022 Proposed Budget will be the final program of projects unless modified prior to final approval by the WMATA Board of Directors.

Memorandum

TO: Ms. Nicole Ard, City Manager
DATE: March 3, 2021
FROM: Terri Hruby, Director of Planning & Community Development
RE: WMATA's Proposed FY 2022 Budget Proposal and Service Adjustments

WMATA has released its FY 2022 budget for public review and comment. The proposed budget assumes that during the second half of fiscal year 2022 (January 1 to June 30, 2022) significant service reductions would need to take place to balance the FY 2022 budget. Virtual public hearings on WMATA's proposed FY 2022-2027 Capital Improvement Program and Proposed FY 2022 Operating Budget are scheduled for March 8, 2021 at 11am, March 8, 2021 at 6pm, March 9, 2021 at 6pm and March 10, 2021 at 6pm. Written comments are due by 5pm on Tuesday, March 16, 2021.

Under WMATA's proposal Metrorail would operate at the February 2021 service levels (approximately 80 percent of pre-pandemic levels) for the first six months of FY 2022, and then would reduce service to approximately 30 percent pre-pandemic levels beginning January 2022. Service reductions would include increasing weekday and weekend headways, closing the system at 9pm Monday through Saturday instead of 11 pm and closing 22 Metrorail Stations including College Park-U of MD.

Under WMATA's FY 2022 Metrobus service proposal, WMATA is proposing to maintain FY 2021 span and frequency on the majority of its routes for the first half of FY 2022. It is also proposing to add service on the C4 (Greenbelt-Twinbrook) so that it operates until 2am seven days a week and to restore Saturday service on the R12. However, under the proposal Metrobus will operate at 50% of its pre-pandemic bus service for the second half of FY 2022. This means the City and the region are facing **significant** reductions to Metrobus service in January 2022 (Attached are excerpts from WMATA's proposed service changes for routes servicing Greenbelt). In summary, service changes/reductions specific to routes servicing Greenbelt include:

1. Elimination of Metrobus Route G12 and increasing headways on the Metrobus G14 from 15 minutes to 30 minutes on weekday peak and from 30 to 60 minutes off peak and weekends.

City of Greenbelt

Department of Planning and Community Development

15 Crescent Road, Suite 200, Greenbelt, Maryland 20770
(301) 345-5417 Fax (301) 345-5418

2. Elimination of Metrobus Routes 89, 89M that provides service between Greenbelt Metro Station and South Laurel Park & Ride
3. Elimination of Metrobus Route C2 and modifications to the routing of Metrobus Route C4 to terminate service to the Twinbrook Metro Station (service extended to Rockville Metro Station) and to Greenbelt Metro Station. Proposed service adjustments also include terminating service at midnight. Route C4 would no longer serve Greenbelt.
4. Elimination of Metrobus R12 (Kenilworth Avenue Line)
5. Modification of Metrobus Route 83 (College Park Line) to terminate at Greenbelt Metrorail Station instead of Cherryhill Park Campground. This Route does not currently serve Greenbelt.

If WMATA does not receive additional funding and proceeds with the proposed FY 2022 service changes, Greenbelt residents will experience a significant loss of Metrobus service in January 2022. These changes will have social and economic costs for the City and the region. For example, WMATA's proposed budget identifies TheBus 16, Metrobus G14, and the modified Metrobus 83 service as providing viable alternative service for the loss of the Metrobus G12 to Doctors Hospital and Hanover Parkway South of Greenbelt Road. However, Metrobus G14 and TheBus 16 do not serve Ridge Road, Hanover Parkway north of Greenbelt Road, Mandan Road and Ora Glen Drive. Service on Ridge Road would be limited to the area between Westway and Gardenway. Riders who currently access bus service along Hanover Parkway north of Greenbelt Road, Mandan Road, and Ora Glen Drive would be forced to seek service at the nearest stop along Greenbelt Road or Hanover Parkway south of Greenbelt Road. In addition, these routes do not serve Ivy Lane, Lastner Lane and Ridge Road which are currently serviced by the Metrobus G12. TheBus 16 also has fewer operating hours than the Metrobus G12.

The elimination of the Metrobus C2 will impact available service to and from Greenbelt Station and Franklin Park at Greenbelt Station to destinations such as various University of Maryland sites and points northwest. This will be mitigated to some extent by the extension of Metrobus 83 along Greenbelt Road to the Greenbelt Metro station; however, this modification will not fully address the impacts of eliminating Metrobus C2. Additionally, WMATA's proposed budget identifies the University of Maryland's Shuttle-UM as providing alternate service for the loss of this route, but this service runs on a limited schedule and few Greenbelt residents are able to use it because riders are required to be affiliated with the University.

The elimination of the Metrobus R12 will result in a severe reduction in service to Franklin Park at Greenbelt Station and to Beltway Plaza. WMATA notes that alternative service is available on the Metrobus G14 and TheBus 16, but as stated previously the TheBus 16 has reduced operating hours/days

City of Greenbelt

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and does not serve all the areas that are currently served by the Metrobus R12. Further, the Metrobus G14 does not provide the same north south connection that the Metrobus R12 does.

Staff has placed this item on City Council's regular meeting agenda for March 8, 2021, for discussion. Staff recommends the City Council send a letter to WMATA opposing the Metrorail and Metrobus service reductions proposed for the second half of FY 2022, particularly the elimination of the Metrobus G12, which was developed in collaboration with the City and local transit advocates and provides vital service to areas of the City that are otherwise not served by transit. The letter would cite the significant adverse impacts the reductions will have on Greenbelt residents and business, and the region. Staff further recommends the City Council transmit a letter to our State and Federal representatives advocating for the additional funding to allow WMATA to resume and/or expand on pre-pandemic service levels.

City Council Agenda Item Report

Meeting Date: March 8, 2021

Submitted by: Shaniya Lashley-Mullen

Submitting Department: Administration

Item Type: OTHER BUSINESS

Agenda Section: OTHER BUSINESS

Subject:

* Private Electric Vehicle Charger in City Right-of-Way -133 Northway

Suggested Action:

Reference:

Map Proposed Location

Drawing Proposed Location

Staff has received a request from Mr. Walker, who resides at 133 Northway, for permission to install an EV charging station in City right-of-way. Typically, staff would require the applicant to place the charger on his/her property since they have a private driveway. However, Mr. Walker has indicated that the steepness of his driveway will not accommodate the second electric vehicle he plans to purchase. Mr. Walker is requesting to place the EV charging station approximately 14 feet from the curb line. Often a 14-foot setback would be outside the City right-of-way but not in this case. This will allow Mr. Walker to charge a vehicle that is parked in his driveway and to charge a second vehicle parked adjacent to his driveway on a parallel space on Northway.

Staff met with Mr. Walker to explore other locations, but a regulation that does not allow for EV charging cords to be greater than 25 feet in length` and the fact that many electric charging vehicles have driver side hookups requires that the EV charging station be approximately 14 feet from the curb. Construction operations will not extend into the 14-foot setback.

Mr. Walker understands that he will not have exclusive rights to the on-street parking space, although it appears there is no competition for the on-street parking in front of his home. He is also aware of the requirement to execute an MOU with the City.

Council approval is sought.

Attachments:

Map - Proposed Location.pdf
Drawing - Proposed Location.pdf

**133 Northway
EV Charging Station Request**



City Council Agenda Item Report

Meeting Date: March 8, 2021

Submitted by: Bonita Anderson

Submitting Department: Administration

Item Type: OTHER BUSINESS

Agenda Section: OTHER BUSINESS

Subject:

Foreclosure Moratorium

Suggested Action:

Mayor Byrd requested that this item be added to the agenda. The motion is to have the City Solicitor draft legislation to establish a moratorium prohibiting banks/financial institutions in Greenbelt from foreclosing on Greenbelt Homes Inc. The moratorium would last through the end of this year.

Attachments:

City Council Agenda Item Report

Meeting Date: March 8, 2021

Submitted by: Bonita Anderson

Submitting Department: Administration

Item Type: OTHER BUSINESS

Agenda Section: OTHER BUSINESS

Subject:

Collective Bargaining for all City Employees

Suggested Action:

Mayor Byrd requested that this item be added to the agenda. The motion is to have the City Solicitor to draft legislation to provide all city employees (regardless of department) with the right to collectively bargain.

Attachments:

City Council Agenda Item Report

Meeting Date: March 8, 2021

Submitted by: Bonita Anderson

Submitting Department: Administration

Item Type: OTHER BUSINESS

Agenda Section: OTHER BUSINESS

Subject:

Noncitizen Voting

Suggested Action:

Mayor Byrd requested that this item be added to the agenda. The motion is to have the City Solicitor draft legislation that would authorize non citizen residents of Greenbelt to vote in City elections.

Attachments:

City Council Agenda Item Report

Meeting Date: March 8, 2021

Submitted by: Bonita Anderson

Submitting Department: Administration

Item Type: OTHER BUSINESS

Agenda Section: OTHER BUSINESS

Subject:

Term Limits

Suggested Action:

Mayor Byrd requested that this item be added to the agenda. The motion is to have the City Solicitor draft legislation that would limit City Council Members to no more than five consecutive two year terms in office. This would not apply to sitting Council Members elected prior to 2017.

Attachments:

City Council Agenda Item Report

Meeting Date: March 8, 2021

Submitted by: Bonita Anderson

Submitting Department: Administration

Item Type: OTHER BUSINESS

Agenda Section: OTHER BUSINESS

Subject:

* Request to Initiate Memorandum of Understanding with State Highway Administration regarding Litter Pickups

Suggested Action:

Reference: State Highway Administration Memorandum of Understanding Form

Mayor Byrd requested that this item be added to the agenda. The motion is to have City staff complete and submit the attached form.

Attachments:

[State Highway Administration Memorandum of Understanding Form.pdf](#)

Request to Initiate (RTI) - Memorandum of Understanding (MOU) Form

Organization Name: _____
Prince George's: _____ or Montgomery County: _____

The information below is required to begin the process in establishing an MOU with the MDOT SHA.
Once completed, please return the document via E-mail to Smason@mdot.maryland.gov

1. **Description of total project:** The MEDIAN MAINTENANCE shall be performed on: i) MD _____ from _____ Avenue/Street, and, ii) MD _____ from MD _____ to MD _____, and shall include but not be limited to the following activities, which will be performed at specific times and at the costs established by the MDOT SHA on the SCHEDULE, and as shown. * Please include the mile point information and description - use (00.000 format).

2. Check ALL services that the **Organization** would like to be reimbursed for by the MDOT SHA:

- 1. Mowing _____
- 2. Litter Pick Up _____

3. Does the **Organization** currently pay a contractor to provide landscaping services throughout the City/Town? If so, please provide the information below.

- Mowing Cost \$ _____ per Week/Month or Year
- Litter Pick Up per Week/Month or Year \$ _____ per Week/Month or Year

4. Please provide a detailed description of why the **Organization** wishes to enter into an Agreement with the MDOT SHA:

The Organization Name - **Town/City** of:

5. Please check the proposed time frame for this Agreement:

2 Years _____ or 5 Years _____

Request to Initiate (RTI) - Memorandum of Understanding (MOU) Form

REQUESTOR:

ORGANIZATION Name:

Prince George's or Montgomery County:

6. Please list the contact information for the individual(s), responsible for signing, maintaining, and/or keeping the proposed Agreement in Good Standing with the MDOT SHA:

NAME: _____

TITLE: _____

OFFICE: _____, MD _____

ADDRESS: _____

PHONE: _____ - _____ - _____ ext. _____

E-MAIL: _____

NAME: _____

TITLE: _____

OFFICE: _____, MD _____

ADDRESS: _____

PHONE: _____ - _____ - _____ ext. _____

E-MAIL: _____

PLEASE NOTE:

Once the Memorandum of Understanding (MOU) has been officially executed, and the Organization has begun providing services agreed to within the MOU, it will be the responsibility of the **ORGANIZATION** to:

1. **Contact Sabrina Mason** via E-mail at Smason@mdot.maryland.gov, to initiate a **Site Inspection (SI)** EACH time after services have been performed by the organization—per the MOU Agreement. Once the **SI** has been verified and recorded by the appointed **MDOT SHA Official**, the reimbursement process will begin. Reimbursement checks will be mailed out to the organization on a QUARTERLY basis, via United States Postal Services (**USPS**).

2. DETAILED Invoices are to be submitted **QUARTERLY** to:

Maryland Department of Transportation
State Highway Administration
9300 Kenilworth Avenue
Greenbelt, MD 20770
Office of District Engineer

ATTENTION: Florenciannette Jordan - District 3, Financial Officer
Samuel Aimufua – D3, District Operations Engineer

City Council Agenda Item Report

Meeting Date: March 8, 2021

Submitted by: Shaniya Lashley-Mullen

Submitting Department: Administration

Item Type: OTHER BUSINESS

Agenda Section: OTHER BUSINESS

Subject:

* Reappointments to Advisory Boards

Suggested Action:

Reference: Surveys

James Drake has indicated his willingness to continue to serve on the Advisory Planning Board (APB).

Susan Gregersen has indicated her willingness to continue to serve on the Forest Preserve Advisory Board (FPAB).

Catherine Brannan has indicated her willingness to continue to serve on the Senior Citizens Advisory Board (SCAB).

Approval of this item on the consent agenda will indicate Council's intent to appoint them to a new term.

Attachments:

City Council Agenda Item Report

Meeting Date: March 8, 2021

Submitted by: Shaniya Lashley-Mullen

Submitting Department: Administration

Item Type: OTHER BUSINESS

Agenda Section: OTHER BUSINESS

Subject:

* Appointments to Maglev Task Force

Suggested Action:

Reference: Applications

Approval of this item on the consent agenda will indicate Council's intent to appoint the following individuals to the Maglev Task Force.

Jacquelyn Waters, Martha Galvin, and Jonathan Taylor.

Attachments:

CITY OF GREENBELT, MARYLAND

25 Crescent Road, Greenbelt, MD 20770-1891

3/5/2021 4:00 PM

City Council Meetings & Work Sessions March



Work Session - Forest Preserve/Community Gardens, (Virtual)	Mon.	03/01	8:00 pm
Work Session – Comcast (stakeholder), (Virtual)	Wed.	03/03	8:00 pm
NLC Congressional City Conference, (Virtual)	Sun. – Wed.	03/07 – 03/10	
Regular Meeting, (Virtual)	Mon.	03/08	8:00 pm
Work Session – TBD, (Virtual)	Wed.	03/10	8:00 pm
Work Session – TBD, (Virtual)	Mon.	03/15	8:00 pm
Advisory Board Interview	Wed.	03/17	7:40 pm
Work Session - 7010 Greenbelt Road Development Proposal – Requests for City Support, (Virtual)	Wed.	03/17	8:00 pm
Regular Meeting, (Virtual)	Mon.	03/22	8:00 pm
Budget Work Session – TBD, (Virtual)	Wed.	03/24	8:00 pm
Work Session – Maglev DEIS Review, (Virtual)	Mon.	03/29	8:00 pm
Budget Work Session – TBD, (Virtual)	Wed.	03/31	8:00 pm

- Councilmembers will present reports on conferences, meetings and events as the last item of business at Monday Work Sessions.

This schedule is subject to change. For confirmation, call 301-474-8000. Regular and Special meetings and Work Sessions are open to the public. If special accommodations are required for any disabled person, please call 301-474-8000 or 301-474-3870 no later than 10 a.m. on the meeting day. Deaf individuals are advised to use Video Relay Services (VRS) at 711 or e-mail banderson@greenbeltmd.gov to reach the City Clerk.

Due to the COVID-19 precautions, the Council Meetings will be held online and is planned to be cablecast on Verizon 21, Comcast 71, and 996 and streamed to www.greenbeltmd.gov/municipalTV. Unless otherwise noted, Council meetings will be virtually by zoom. Zoom meeting information for public participation is posted on the City's website at www.greenbeltmd.gov on the meetings calendar.

Bonita Anderson, City Clerk

A NATIONAL HISTORIC LANDMARK

(301) 474-8000

fax (301) 441-8248
www.greenbeltmd.gov

MD RELAY 711

CITY OF GREENBELT, MARYLAND

25 Crescent Road, Greenbelt, MD 20770-1891

3/5/2021 4:00 PM

Ready to be scheduled:

BARC/BEP Meeting (*include: Beltsville & Vansville Associations, FAR-B, Congressman Hoyer, etc.*)
MARC Train Service/ MDOT
NCOZ/Arts & Entertainment District
Potential Bond Referendum/Capital Financing
Cemetery Plans
WSSC
Pepco
Bernard Penney (*Memorial Donation in honor of Leonie Penney*)
Greenbelt Fair and Just Policing Act of 2020
Juneteenth
Parke Crescent Apartment Complex
Executive Session (*CBA*)
Capital Projects
Pre-Budget FY22
Local Economy Recovery

For later scheduling:

Zoning Enforcement
Parkway Apartment Owners/GHI (*parking*)
Northway Fields Master Plan
City Manager Updates (Jan, Pre-budget; July & Sept/Oct)
Meeting with County on Transportation Plan
Hotels
Department of Permitting, Inspections & Enforcement (DPIE)
Museum Plan
Apartments

Annual														
Advisory Group Chairs	3/16	2/17	7/18	7/19	6/20									
Franklin Park at Greenbelt Station Mgmt.	8/16	11/17	12/18	12/19	12/20									
Greenbelt East Advisory Coalition	3/16	7/17	3/19	6/20										
Greenbelt Homes, Inc.	6/16	7/17	7/18	7/19	10/20									
Greenbelt Station	8/19	12/19	8/20											
County Executive/ County Council	12/13	9/16	1/19	8/20	11/20									
Biennial														
Roosevelt Center Merchants	11/16	1/18	1/20											
Beltsville Ag. Research Center/ NPS Greenbelt Park	03/14	7/16	8/18											
	7/15	1/18	1/20											
Beltway Plaza	9/14	3/17	9/20											
Greenbelt Community Garden Club														
Greenway Center	7/14	12/16	2/19	12/20										
Civic Associations	8/14	2/18	8/20											
NASA/GSFC	3/15	3/17	9/19	12/20										
PG Co. Economic Development Corp.	8/14	4/17	7/19											
School Board	2/16	5/17	10/18	3/19	9/20									
State Highway Administration	6/15	10/17	11/20											
Every Three Years														
Apartments	2/18													
Religious/Spiritual Organizations	3/13	6/15	6/19											
Greenbelt Watershed Groups	8/14	10/16	10/19											
Hotels														
University of Maryland	3/13	4/15												
Every Three Years or Major Issue														
Comcast	9/13	11/17	3/21											
Verizon	2/20													
PEPCO	9/14	1/17												
WSSC	12/12	9/16												
WGL	12/17													
Capital Office Park	12/12	1/16	9/19											
Other Business Parks:														
Maryland Trade Center														
Golden Triangle														
Hanover Parkway														
Belle Point														
Edmonston Road														

WMATA/PGDPW&T (Semi-Annual)	11/16	9/17	11/18	1/20										
Other/As Needed														
M-NCPPC/Planning Board (Major Issue)	6/06	7/14	10/19											
Business Coffee (Every Four Months)	10/17	2/18	8/18	11/18	2/19	5/19	8/19	12/19	3/20	8/20	11/20	2/21		
State's Attorney (4 years)	2/11	4/15	9/19											
Roosevelt Center Owner	9/15	8/20												

(Rev. March 4, 2021)