



Angela D. Alsobrooks  
County Executive



Michael D. Johnson, P.E.  
Director

# South County Community Roundtable Meeting

January 25, 2023



Angela D. Alsobrooks  
County Executive

# DPW&T Mission & Vision Statement



Michael D. Johnson, P.E.  
Director

The Department of Public Works and Transportation (DPW&T) is responsible for nearly 2,000 miles of County-maintained roadways that range from rural to urban classifications. The transportation infrastructure includes 900 bridges, as well as shoulders, sidewalks, curbs/gutters, stormwater management facilities, driveway aprons and nearly 3,000 acres of grassy area -- all of which are maintained by staff of the Department.

DPW&T is also responsible for the management and operation of the Prince George's County's public transportation system TheBus, a County bus service, to meet local transportation needs of its residents and visitors. TheBus' fixed route system consists of 28 routes that cover more than 10,000 miles throughout the County. The Department's transportation responsibilities include prioritizing Vision Zero principles through various multimodal transportation options such as transit, bicycle and pedestrian activity, and other modes available for the movement of people and goods throughout the County.



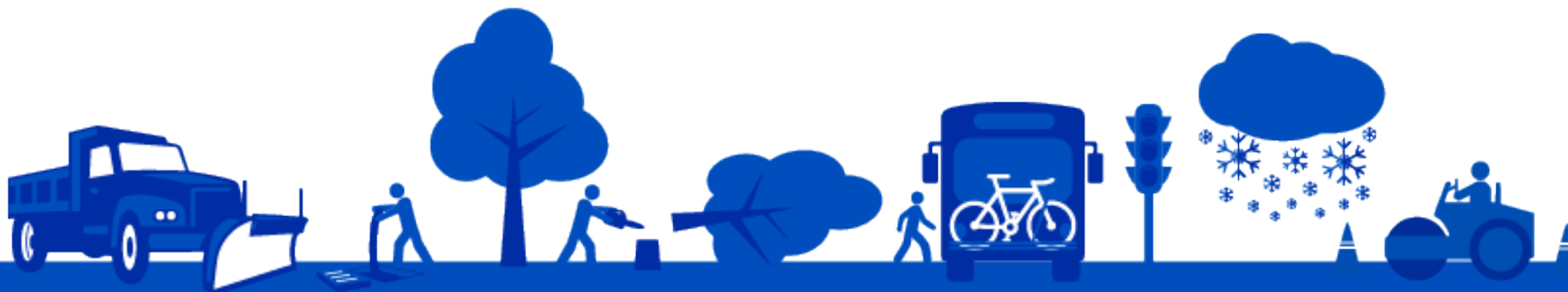
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# Presentation Topics



Michael D. Johnson, P.E.  
Director

- Storm Drain Maintenance
- Litter and illegal dumping, tree trimming
- Sidewalks
- Pavement management
- Transportation updates





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Director

# Office of Storm Drain Maintenance Updates

Prince George's County, DPW&T

Presented by **Charlie Griffith**  
Associate Director, Office of Storm Drain Maintenance



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# Question for OSDM



Michael D. Johnson, P.E.  
Director

- How is DPW&T working with DoE on drainage issues to alleviate the challenges in flooding, drainage, stormwater, and future risks from the ongoing climatological changes including more frequent and severe flooding?
  - Response: DPW&T continues to work with DoE and DPIE to address challenges stemming from climate change. DPW&T is working to ensure all SWM facilities are functioning properly. DPW&T has initiatives on installing flood sensors, utilizing a software to help all identify low spots in the County (BlueSpot) and cross referencing these datasets to help identify the most vulnerable locations. DPW&T take small simple steps such as increasing inlet capacity any time an old inlet is replaced.



# Why are we talking about flooding?



### PDS-based precipitation frequency estimates with 90% confidence intervals (in inches)<sup>1</sup>

Duration	Average recurrence interval (years)									
	1	2	5	10	25	50	100	200	500	1000
5-min	0.358 (0.325-0.394)	0.430 (0.390-0.473)	0.511 (0.463-0.563)	0.570 (0.515-0.628)	0.646 (0.580-0.712)	0.702 (0.627-0.775)	0.758 (0.672-0.838)	0.812 (0.716-0.902)	0.882 (0.768-0.985)	0.937 (0.809-1.05)
10-min	0.572 (0.519-0.629)	0.688 (0.624-0.756)	0.818 (0.741-0.901)	0.912 (0.824-1.00)	1.03 (0.924-1.14)	1.12 (0.998-1.23)	1.21 (1.07-1.33)	1.29 (1.13-1.43)	1.40 (1.22-1.56)	1.48 (1.27-1.66)
15-min	0.715 (0.649-0.787)	0.864 (0.784-0.950)	1.03 (0.938-1.14)	1.15 (1.04-1.27)	1.31 (1.17-1.44)	1.42 (1.26-1.56)	1.52 (1.35-1.68)	1.63 (1.43-1.80)	1.76 (1.53-1.96)	1.85 (1.60-2.08)
30-min	0.981 (0.889-1.08)	1.19 (1.08-1.31)	1.47 (1.33-1.62)	1.67 (1.51-1.84)	1.93 (1.73-2.13)	2.13 (1.90-2.35)	2.33 (2.07-2.58)	2.53 (2.23-2.81)	2.79 (2.43-3.12)	3.00 (2.59-3.37)
60-min	1.22 (1.11-1.35)	1.50 (1.36-1.65)	1.89 (1.71-2.08)	2.18 (1.97-2.40)	2.57 (2.31-2.84)	2.89 (2.58-3.19)	3.21 (2.85-3.55)	3.55 (3.13-3.94)	4.01 (3.49-4.48)	4.38 (3.78-4.92)
2-hr	1.42 (1.29-1.57)	1.73 (1.57-1.91)	2.19 (1.99-2.42)	2.55 (2.30-2.81)	3.06 (2.74-3.37)	3.47 (3.09-3.83)	3.91 (3.46-4.31)	4.36 (3.83-4.83)	5.01 (4.34-5.58)	5.53 (4.75-6.21)
3-hr	1.52 (1.38-1.69)	1.85 (1.68-2.06)	2.35 (2.12-2.60)	2.75 (2.47-3.04)	3.31 (2.93-3.66)	3.78 (3.35-4.18)	4.27 (3.75-4.73)	4.80 (4.18-5.33)	5.55 (4.77-6.19)	6.17 (5.23-6.93)
6-hr	1.86 (1.69-2.07)	2.26 (2.05-2.51)	2.85 (2.58-3.17)	3.34 (3.00-3.70)	4.06 (3.62-4.50)	4.69 (4.18-5.19)	5.34 (4.67-5.93)	6.06 (5.24-6.76)	7.12 (6.06-8.00)	8.01 (6.71-9.05)
12-hr	2.25 (2.02-2.52)	2.71 (2.44-3.05)	3.45 (3.09-3.87)	4.08 (3.64-4.57)	5.04 (4.44-5.63)	5.87 (5.13-6.57)	6.80 (5.87-7.63)	7.84 (6.67-8.82)	9.42 (7.84-10.7)	10.8 (8.82-12.3)
24-hr	2.60 (2.37-2.90)	3.15 (2.87-3.52)	4.07 (3.69-4.53)	4.87 (4.40-5.41)	6.09 (5.47-6.73)	7.17 (6.39-7.89)	8.40 (7.41-9.20)	9.78 (8.54-10.7)	11.9 (10.2-13.0)	13.8 (11.7-15.0)

June 5, 2020: 50-100-year event

July 3, 2022: 100-200-year event

August 3, 2020: 100-500-year event

Sept. 10, 2020: 500-1000-year event

August 8, 2022: 500-year event



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# Infrastructure



Michael D. Johnson, P.E.  
Director

- Customer Service Requests (311), 18,000 drainage complaints
- 100,000 drainage structures, 750+ miles of storm drains
- 67 permitted Channels - 120,000 Linear Feet of Channels
- 800+ SWM facilities, could exceed 1200+ structures by 2025
- 50-75 facilities fail each year – 148 Failed facilities are included in Consent Decree
- ~180,000 Street Trees
- Maintenance of levees, pumping stations, high hazard dams
- 100-200 drainage projects per year
- Levees and Pumping Station - Inspect, operate, and maintain; Annual Inspections with ACOE



## Levees of Prince George's County

8 Levee Systems 7 Miles of Levees 56 years Average Levee Age



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# Annual Activities



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- Maintenance and Upgrades at Pump Stations
- Inspect ~120,000 Complaints within DPW&T
  - Inspect ~18,000 Drainage Complaints
- Oversee construction on:
  - Small Drainage Projects
  - Pond Rehabilitation
- Perform ~200 Triannual SWM Facility Inspections
  - MS4 Annual Reporting through DoE
- Install over 5,000 trees in RTRP
- Mowing of ~600 SWM facilities in Spring and Fall
- Maintenance and Mowing of Levees
- Jet Vac Services for 2,000 inlets
- Maintenance of channels - Includes concrete repairs, vegetation removal, removal of debris at culverts
- Ditch Maintenance







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# PGC311 – Service Requests and Issues



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- Please report drainage issues through PGC311
- What can be reported through PGC311?
  - Surface Drainage Issues
  - Sediment build up in channels or roadside ditches
  - Blocked Culverts
  - Failed Infrastructure such as a broken top to a drainage structure
- What to expect once a complaint is made through PGC311?
  - Inspector is assigned and will inspect within a few days or sooner depending on urgency of matter
  - If work is required, it will be assigned to an in-house crew or a contractor
  - Work will be completed in order of receipt
  - Once completed, PGC311 ticket will be closed

Before



After





# Resources



- Urgent Need – Call Dispatch - #301-324-2710
- Inspectors will conduct a site visit typically within one week (unless emergency or safety issue)
- PGC311 Questions – 301-952-4729
- Residential Drainage Manual
- Growing Green With Pride
  - [https://www.princegeorgescountymd.gov/DocumentCenter/View/40065/Growing-Green-with-Pride-2022-springapplication\\_fillable?bidId=](https://www.princegeorgescountymd.gov/DocumentCenter/View/40065/Growing-Green-with-Pride-2022-springapplication_fillable?bidId=)
- Raincheck Rebate Program (DoE)
  - <https://www.princegeorgescountymd.gov/310/Rain-Check-Program>
- Follow ups – Please reach out to discuss more specifics with staff
  - <https://www.princegeorgescountymd.gov/3634/311-On-the-Go>
  - <https://princegeorges.maps.arcgis.com/apps/dashboards/index.html#/369b4fe403cd4bb4b2ac68416e1a7517>
- Abutters Ordinance
  - *Homeowner is responsible for cleaning small debris, leaves and small trash.*
  - *"It shall be the duty of the owner or lessor of any real property, improved or unimproved, unless such duty has been delegated to a lessee in actual possession, as the case may be, to prevent the deposit of dirt, sediment, debris, gravel, oil, litter, or any other matter"*



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# Office of Highway Maintenance Updates

Prince George's County, DPW&T

**Presented by Brice Boyd**  
**Associate Director, Office of Highway Maintenance**



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# Questions for OHM



Michael D. Johnson, P.E.  
Director

1. Actions DPW&T has implemented to prevent/alleviate illegal dumping
  1. Response: we have had a robust litter removal campaign to remove litter as quickly as possible.
2. DPW&T establish/schedule routine maintenance in residential communities for tree trimming (on County property) and routine maintenance for buckling and uprooted sidewalk repair/replacement
  1. Response: Yes, we continue to prune trees as needed and remove dead or dying and hazardous trees as needed
3. DPW&T establish/schedule routine trash removal on County roadways and property
  1. Response: Yes, with a litter removal vendor
4. DPW&T 2023 goals/priorities to ensure the safety and cleanliness of our communities
  1. Response: Our goal is to have clean roadways and helping keep our communities clean



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# Litter & Mowing Blitz



Michael D. Johnson, P.E.  
Director



## County Litter & Mowing Blitz Weekly Tracking



### WEEKS 1- 6 TOTALS

Litter	Week 1 Totals	Week 2 Totals	Week 3 Totals	Week 4 Totals	Week 5 Totals	Week 6 Totals
Tonnage Collected	16	16.55	19.75	55	151.39	30.55
Total Linear Miles Collected	355	655.83	704.3	746	993.7	1022.8
Total Number of Bags	1,413	1464	2426	1551	2138	2075
# of Streets Completed	194	188	481	360	562	649
Mowing	Week 1 Totals	Week 2 Totals	Week 3 Totals	Week 4 Totals	Week 5 Totals	Week 6 Totals
Total Acreage	326	338.4	99.03	208	442.8	527.9
Sweeping	Week 1 Totals	Week 2 Totals	Week 3 Totals	Week 4 Totals	Week 5 Totals	Week 6 Totals
Total Curbed Miles Completed	75	22	174.4	62	200.43	39.2
# of Streets Completed	39	0	56	2	5	0



## County Litter & Mowing Blitz Weekly Tracking



### WEEKS 6-9 TOTALS

Litter	Week 6 Totals	Week 7 Totals	Week 8 Totals	Week 9 Totals
Tonnage Collected	30.55	77	33.54	102.33
Total Linear Miles Collected	1022.8	1025.4	799.2	1114.6
Total Number of Bags	2075	1914	1544	1669
# of Streets Completed	649	556	455	528
Mowing	Week 6 Totals	Week 7 Totals	Week 8 Totals	Week 9 Totals
Total Acreage	527.9	295.94	147.06	171.03
Sweeping	Week 6 Totals	Week 7 Totals	Week 8 Totals	Week 9 Totals
Total Curbed Miles Completed	39.2	214.56	391.52	51.4
# of Streets Completed	0	145	114	61

PRINCE GEORGE'S COUNTY  
Litter & Mowing **BLITZ**  
Weekly Update  
Litter Removal  
& Mowing  
Data/Statistics

September 19 – December 2

**Litter Collected:** 557 tons, or 1,227,975 pounds

**Mowing Completed:** 2,975 acres, or 82,683,378 square feet of grass

**Street Sweeping Completed:** 1,285 curbed miles



**Remember, litter doesn't grow like grass!**



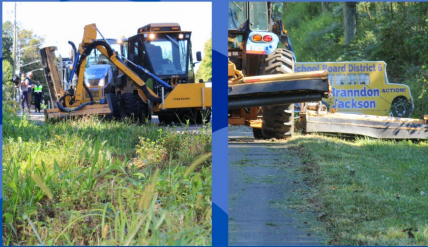
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# Litter & Mowing Blitz



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## BEFORE & AFTER



Lottsford Rd.



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## WE ARE IN YOUR Communities!



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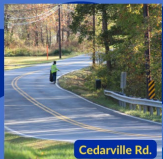
## LET'S BE Prince Georges PROUD



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Cedarville Rd.



Cedarville Rd.



Governor Oden Bowie Dr.



Cedarville Rd.



Governor Oden Bowie Dr.

## BEFORE & AFTER



Garrett Morgan Blvd.



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# Office of Engineering and Project Management Updates

Prince George's County, DPW&T

**Presented by Kate Mazzara**  
**Associate Director, Office of Engineering and Project Management**



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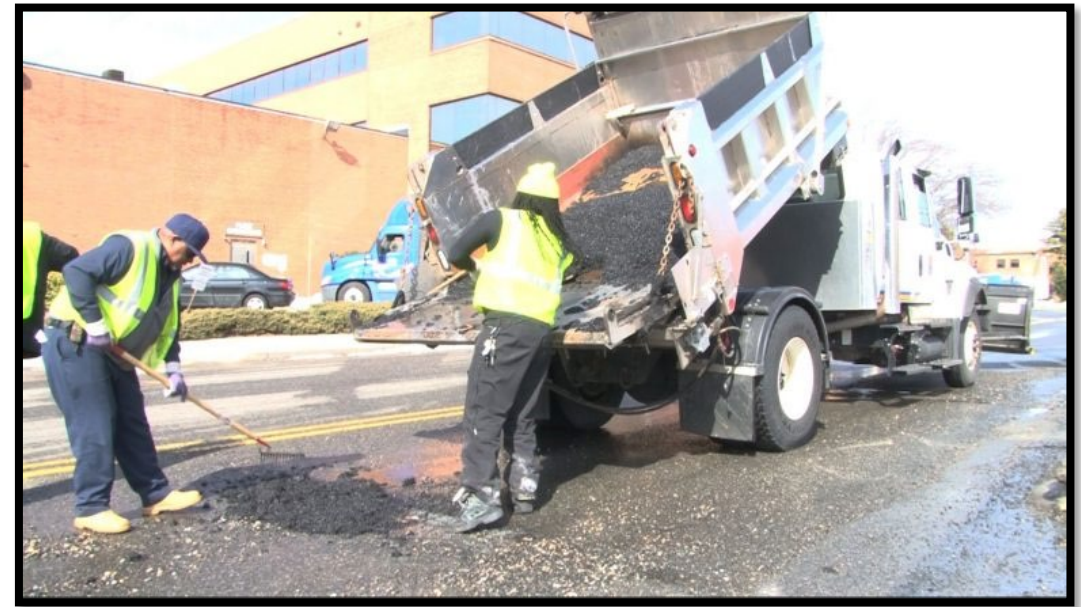
# Questions for OEPM/OHM



Michael D. Johnson, P.E.  
Director

1. DPW&T establish/schedule routine roadway maintenance, paving, pothole repairs

The County schedules pavement maintenance five years in advance based on asphalt conditions and funding availability. Areas identified as those most in need are placed on the five-year schedule. DPW&T fills potholes reported into 311 Customer Service Request system within 72 hours.







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# Pavement Management



Michael D. Johnson, P.E.  
Director

- Roads are surveyed every 5-10 years
- Survey vehicle drives every County maintained road
- Collects data and photographs which are used to update the PAMS database
- Survey vehicle takes scans of the road every 50 feet and can detect cracks as small as one mm in width
- The next planned scan of County roads is scheduled for Spring 2023



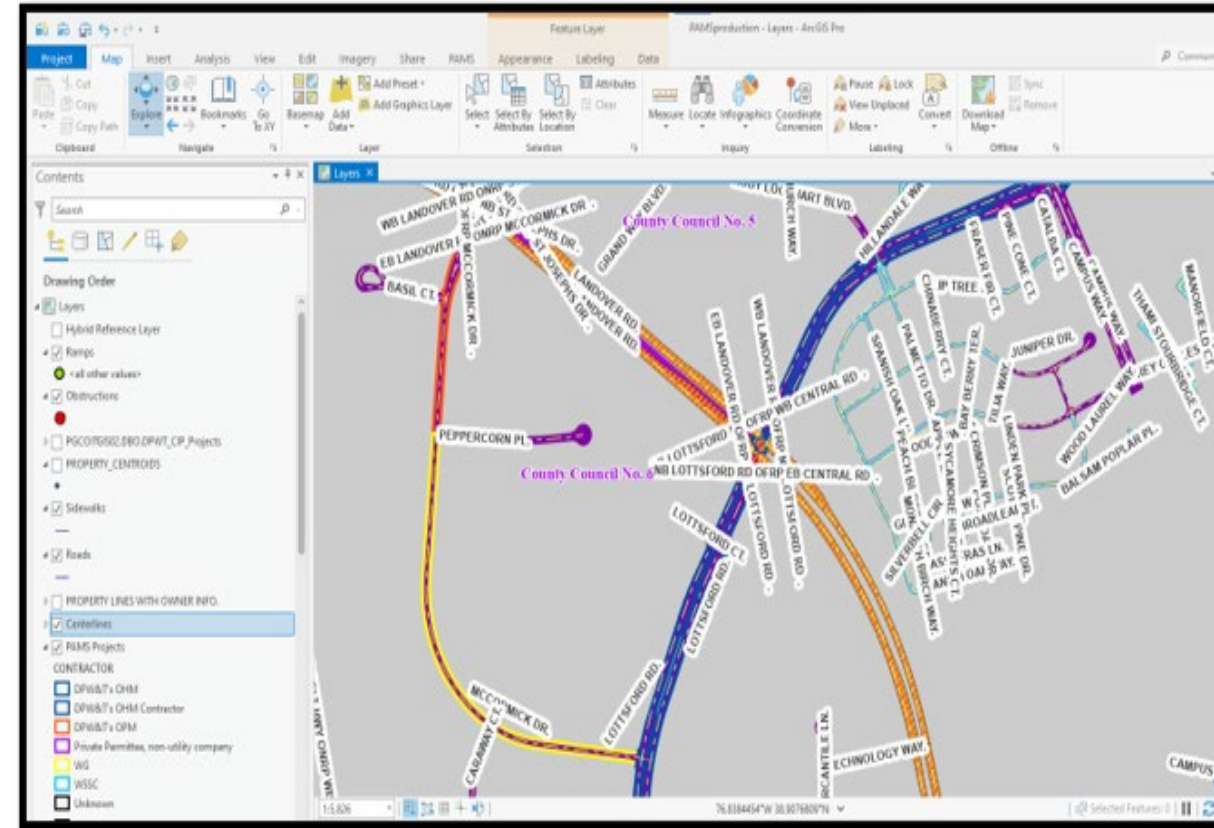
Pavement Survey Vehicle



# Who uses PAMS?



- County Staff for management of County assets and planning future work
- Utility companies for tracking County projects in scheduling work
- DPW&T resurfaced 18.3 miles of road in FY 22.





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Director

# PGC311 Updates

Prince George's County, DPW&T

Presented by **Oluseyi Olugbenle**  
Deputy Director



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# Addressing PGC311 Requests



Michael D. Johnson, P.E.  
Director

Priority: Address Backlog of PGC311 Service Requests

To expeditiously close out a significant number of PGC 311 service requests and develop an efficient process to assign, investigate, manage, and complete service requests.

This new process will alleviate the backlog and significantly reduce closure rates for all DPW&T service types.

Accessibility Ramp Requests
Bus and Taxi Program Information and Inquiries
Damaged Mailbox Business or Residential
Graffiti Removal
Grass and Weeds Removal
Litter and Illegal Dumping
Pavement Markings New or Refresh
Pond Issues
Pothole Repair
Repair Traffic Calming, Signals, Signs, Streetlights
Request New Bus Stop and Bus Stop Amenities
Request New Traffic Sign
Request New Traffic Signals and Street Light
Roadway Emergency
Streets and Sidewalk Issues
Tree Debris and Stump Removal
Trees New, Removal, Replacement or Trimming
Bus Stop and Bus Shelter Issues



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# Overall Approach



Michael D. Johnson, P.E.  
Director

- Understand the current backlog of service requests
- Investigate and inspect all outstanding requests
  - Most 311 backlog requests:
    - Tree Trimming, drainage issues, paving/concrete
  - Concrete work:
    - In-depth review of every outstanding 311 request for concrete repairs
    - Analyze additional techniques to address minor trip hazards on sidewalks
- Build internal resources and streamline processes
  - Additional contractor resources
  - Internal staffing needs
  - Assessing production rates



Download the **PGC311 APP** to your [iPhone](#) or [Android](#) today.





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Director



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# Office of Transportation Updates

## Prince George's County, DPW&T

**Presented by Semia Hackett**  
**Associate Director, Office of Transportation**



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# 2022 Fall Service Change



Michael D. Johnson, P.E.  
Director

<b>Route Reactivation</b> <ul style="list-style-type: none"> <li>15x - Greenbelt to New Carrollton Metro</li> </ul>	<b>40-minute frequency</b> <b>Route operates</b> <b>6:00am - 10:00am and from 3:00pm - 7:00pm</b>
Schedule Adjustments	
<ul style="list-style-type: none"> <li>18 - Langley Park/Addison Road Metro</li> </ul>	<ul style="list-style-type: none"> <li>Time adjustments</li> </ul>
<ul style="list-style-type: none"> <li>21 - New Carrollton/Upper Marlboro</li> </ul>	<ul style="list-style-type: none"> <li>Change bus frequencies</li> </ul>
<ul style="list-style-type: none"> <li>51X - Equestrian Center/ Courthouse</li> </ul>	<ul style="list-style-type: none"> <li>Increase frequencies</li> </ul>
<ul style="list-style-type: none"> <li>34 - Suitland Metro</li> </ul>	<ul style="list-style-type: none"> <li>Add midday service</li> </ul>





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# PGC Transit Transformation Initiative (PGC-TTI)



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Director

- Transit Vision Plan is a five-year plan for aligning and advancing citizen and stakeholder transit needs, initiatives, goals, and objectives
- WMATA is studying the County's (TheBus) system as part of the BBNR efforts; DPW&T is partnering with the county's recommendations and meets regularly with WMATA and consultants



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# DPW&T Zero Emission Bus Transition



Michael D. Johnson, P.E.  
Director

- DPW&T has committed to reducing the transit carbon footprint by 70% electric fleet by 2035
- DPW&T has started coordinating efforts to launch the Proud to Charge initiative funded by the FTA \$25 million Low to No emission grant award.
- Proud to Charge purchases additional buses, the incorporation of in route charging infrastructure, installation of a microgrid system, and workforce development.



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# PGC Transit Transformation Initiative (PGC-TTI)



Michael D. Johnson, P.E.  
Director

- DPW&T began pilot testing the Battery Electric Buses on October 31, 2022
  - Includes 12 Battery Electric Buses on three routes; 51X (Upper Marlboro), 30 (Camp Springs/Clinton), and 15X (Greenbelt)
  - To date, pilot testing overall has gone well and the buses are performing as expected.
- 2023 Next Steps
  - Anticipate delivery of 6 additional Battery Electric Buses, summer 2023
  - Officially launch the Proud to Charge initiative
    - Installation of charging infrastructure
    - D'Arcy Road facility enhancements
    - Design/build microgrid system





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# DPW&T Awards



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## Grants

DPW&T has been awarded more than \$25 million in federal discretionary funds to support the zero-emission bus fleet transition, including battery electric buses, microgrid solar storage, workforce development, facility and charging infrastructure

- 2021 Low to No Emissions (\$5.2M)
- 2022 Bus & Bus Facility (\$25M)

## Industry

Transit System of the Year, 2022

Transportation Association of Maryland

Transit Driver of the Year, 2022

Transportation Association of Maryland

Transit Fleet of the Year, 2022

Greater Washington Region Clean Cities Coalition (GWRCCC)





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# Resources



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Prince George's County  
Department of Public Works and Transportation

## Working Together

County residents and business owners play an important role in helping snow crews provide effective snow removal.

Actions that will benefit everyone and help snow plow crews effectively treat and clear roadways includes:

- ❄ Do not drive on roadways until after they have been treated unless it is an emergency.
- ❄ Do not park on snow emergency routes (vehicles will be towed).
- ❄ Park only in driveways or on even-numbered sides of residential streets, if off-street parking is not available.
- ❄ Shovel driveways after roads have been plowed to avoid having driveways blocked by snow operations.
- ❄ Do not place snow from driveways in the traveled portions of roads.
- ❄ Shovel sidewalks abutting single family homes and businesses, as required by the County Code/Abutter's Ordinance.
- ❄ Shovel out around fire hydrants and mailboxes.
- ❄ Wait 48 hours after precipitation has stopped before calling PG 311.



## Helpful Hints for Snow Events

When a winter storm is predicted and before it hits, make sure you have:

- ❄ Sufficient rock salt, environmental salt, cat litter, sand, and a shovel.
- ❄ A supply of heating fuel or make arrangements for a fuel delivery.
- ❄ All necessary medications or make arrangements to pick up or have them delivered.
- ❄ Extra food, fresh bottled water, and blankets on hand.
- ❄ Flashlights, batteries, a battery operated radio, and a cell or plug-in telephone.
- ❄ Check on your neighbors to find out if they need anything.

Department of Public Works and Transportation  
9400 Peppercorn Place, Suite 300  
Largo, Maryland 20774  
301.883.5600  
[www.princegeorgescountymd.gov](http://www.princegeorgescountymd.gov)



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Abutter's Ordinance Regarding Snow



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## Snow Summit

December 2022

<http://dpwt.mypgc.us/>



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