TRANSPORTATION FORUM

Hosted by Calvin Ball, Howard County Executive

Joining Dr. Ball for this event will be:
Howard County Office of Transportation: Bruce Gartner, Administrator
Howard County Police Department: Captain Chris Neubauer
Howard County Department of Public Works: James M. Irvin, P.E., Director

Monday, December 2, 2019
7:00 - 8:30 P.M.
Elkridge Fire Station
5700 Rowanberry Drive
Elkridge, MD 21075
[Transit: RTA Route 409]

Topics Include:
Transportation Safety, Complete Streets Implementation,
Bike and Pedestrian Master Plans, Highway Traffic and Maintenance,
RTA Service Improvements, Long Range Transportation Plans,
Transportation Priority Requests to MDOT

Jason Quan, Transit Manager
Chris Estough, Bicycle and Pedestrian Coordinator
Kris Jagaraju, Chief, Bureau of Highways
Crisis Tolentino, General Manager, RTA
David Cookson, Transportation Planning Manager

Registration begins at 6:30 p.m. Presentations and question and answer session begin at 7:00 p.m. Follow live on Facebook @HoCoGovExec

for more information contact the Howard County Office of Transportation at 410-313-4312 or transportation@howardcountymd.gov
Howard County Department of Public Works
Howard County Office of Transportation
Howard County Police Department

TRANSPORTATION FORUM

County Executive

Department of County Administration

Office of Transportation

Department of Public Works

Complete Streets Implementation

- Comprehensive and Regional Transportation Planning
  - Transportation Demand Management
- Transit Operations Oversight
- Bicycle & Pedestrian Program

Bureau of Engineering
  Transportation Special Projects
- Bureau of Highways
  Traffic Engineering
  Highway Maintenance

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Howard County Commuter Travel

INTRACOUNTY COMMUTERS 68,390

44,524
Washington DC Region

25,455

49,835
Baltimore Region

65,200

Howard County Department of Public Works
Howard County Office of Transportation
Howard County Police Department

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COMPREHENSIVE TRANSPORTATION PLANNING: HOW WE PLAN

Demographic data and information that guide decision making:

• Evaluate how and where people travel now
• Project how and where people will travel in the future
• Estimate impacts of crashes, congestion & freight movement
• Coordinate and partner with the State of Maryland, regional planning agencies, bordering counties and the private sector
• Reach out to residents, businesses and community groups for feedback and guidance
• Pursue policies and goals in PlanHoward 2030, local area plans, and those of County elected officials
Transportation System Management and Operations is an integrated approach to the planning, engineering, operations and maintenance of transportation systems.

Howard County, in coordination with the Maryland Department of Transportation State Highway Administration (MDOT SHA), conducts corridor studies throughout the County to assess location-specific transportation challenges and opportunities.

The Regional Transit Plan for Central Maryland is developing and guiding public transportation goals for the next 25 years, addressing traditional transit, and exploring new mobility options and technology to meet regional transit needs.
Examples of Local Transportation Capital Projects in Howard County

Oakland Mills Road

Foundry Street Pathway

Clarksville Pike Streetscape

HCC Connector

RTA Transit Bus

RTA Mobility Van
Howard County Complete Streets Policy - Passed by Council Resolution 120-2019 on 10/7/19

What is a complete street?
Complete streets are safe streets for all. They vary in different places and contexts, but they often include some or all the elements below.

- **Sidewalks**
  Facilitate travel for all users, including people in wheelchairs, with level, unobstructed, and wide walkways.

- **Curb ramps**
  Accommodate wheelchairs, baby strollers, and bicycles with smooth transitions between sidewalks and roadways.

- **Roadway**
  Manage travel speed, enhance safety, and provide predictability.

- **Crosswalks**
  Direct pedestrians to preferred, clearly marked street crossing locations and increase driver awareness.

- **Grass buffer**
  Separate the street and sidewalk and provide space for trees, light posts, and signs.

How does the Howard County Complete Streets Policy improve our streets?

- **Safety**
  Ensures our streets are designed and maintained with safety for all as the top priority, includes pedestrians, cyclists, transit riders and drivers.

- **Coordination**
  Brings all relevant agencies together, ensures they are all contributing and pulling in the same direction. Includes Howard County, State Highway Administration and developers.

- **Equity**
  Prioritizes transportation improvements in communities with vulnerable populations. Factors include poverty, racial minorities, limited English proficiency, disabled, elderly and carless.

- **Public Input**
  Gives the community a strong voice and provides transparency throughout the entire process, including the early concept stages.

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Howard County Department of Public Works
Howard County Office of Transportation
Howard County Police Department

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HOWARD COUNTY EXECUTIVE
<table>
<thead>
<tr>
<th>Project Name</th>
<th>Facility Type</th>
<th>Construction Cost</th>
<th>Capital Project</th>
<th>Anticipated Construction Start</th>
</tr>
</thead>
<tbody>
<tr>
<td>Complete: Final Report of the US 1 Safety Evaluation</td>
<td>Mow</td>
<td>#1K to #2K</td>
<td>County</td>
<td>FY2019</td>
</tr>
<tr>
<td>Complete: Accessible Connection between North Laurel Community Center and MultiService Center</td>
<td>Sidewalks</td>
<td>#20K to #80K</td>
<td>County</td>
<td>FY2019</td>
</tr>
<tr>
<td>Construction of North Laurel Connections</td>
<td>Mow</td>
<td>$1M to $3M</td>
<td>MDOT</td>
<td>FY2020</td>
</tr>
<tr>
<td>Design of Savage-Area Complete Streets</td>
<td>Mow</td>
<td>#1K to #2K</td>
<td>County</td>
<td>FY2020</td>
</tr>
<tr>
<td>Construction of the Twin Rivers Pathway</td>
<td>Sidewalk/Landscaping Pathway</td>
<td>$300K to $1M</td>
<td>County</td>
<td>FY2020</td>
</tr>
<tr>
<td>Construction of Oakland Mills Rd in the Guilford Community (Phase 1, south of Guilford Elementary School)</td>
<td>Mow</td>
<td>$1M to $3M</td>
<td>County</td>
<td>FY2020</td>
</tr>
<tr>
<td>Construction of the Stephens Road Bridge Replacement</td>
<td>Sidewalks</td>
<td>More than #8M</td>
<td>County</td>
<td>FY2020</td>
</tr>
<tr>
<td>Construction of the Foundry Street Pathway</td>
<td>Mow</td>
<td>#1K to #2K</td>
<td>County</td>
<td>FY2020</td>
</tr>
<tr>
<td>Construction of Whitesacre Road</td>
<td>Blue Lanes</td>
<td>$250K to #1M</td>
<td>County</td>
<td>FY2020</td>
</tr>
<tr>
<td>Construction of Millersville West District Pathways</td>
<td>Shared Use Pathway</td>
<td>$300K to $1M</td>
<td>County</td>
<td>FY2020</td>
</tr>
<tr>
<td>Construction of the Volmerhausen Road Pedestrian Refuge Island and Crosswalk at Castletford Drive</td>
<td>Crosswalk</td>
<td>#1K to #2K</td>
<td>County</td>
<td>FY2020</td>
</tr>
<tr>
<td>Complete: HCC Connector Pathway</td>
<td>Mow</td>
<td>#1K to #2K</td>
<td>County</td>
<td>FY2020</td>
</tr>
<tr>
<td>Complete: Oakland Mills Road, Sybert, and Lynn Lane sidewalk gaps filled</td>
<td>Sidewalks</td>
<td>$300K to $1M</td>
<td>County</td>
<td>FY2020</td>
</tr>
<tr>
<td>Complete: Bike Lanes on Hickory Ridge Road, Summar Sunrise Drive, Duckettia Lane, and Levering Avenue Sharrows</td>
<td>Bike Lanes</td>
<td>$250K to #1M</td>
<td>County</td>
<td>FY2020</td>
</tr>
<tr>
<td>Complete: Columbia Road/Kingscup/Lemlock Corner roundabout with new crosswalks</td>
<td>Sidewalks</td>
<td>$250K to #1M</td>
<td>County</td>
<td>FY2020</td>
</tr>
<tr>
<td>Complete: Stevens Forest Road/Ferraw Road/Night Street Hill roundabout with new crosswalks</td>
<td>Sidewalks</td>
<td>$250K to #1M</td>
<td>County</td>
<td>FY2020</td>
</tr>
<tr>
<td>Planning of Countywide Bike Wayfinding</td>
<td>Wayfinding</td>
<td>#1K to #2K</td>
<td>County</td>
<td>FY2021</td>
</tr>
<tr>
<td>Planning of US 1 at Brewers Ct and Doctor Patel Dr</td>
<td>Crosswalk</td>
<td>$1M to #3M</td>
<td>County</td>
<td>FY2021</td>
</tr>
<tr>
<td>Construction of Frederick Road Sidewalks</td>
<td>Sidewalks</td>
<td>#200K</td>
<td>County</td>
<td>FY2021</td>
</tr>
<tr>
<td>Construction of the Cedar Lane Pathway</td>
<td>Shared Use Pathway</td>
<td>$250K to #1M</td>
<td>County</td>
<td>FY2021</td>
</tr>
<tr>
<td>Design of the Dobbin Rd Pathway Phases I, II, and III</td>
<td>Sidewalks</td>
<td>More than #8M</td>
<td>County</td>
<td>FY2021</td>
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<tr>
<td>Design of Doncaster Road Sidewalks</td>
<td>Sidewalks</td>
<td>#1K to #2K</td>
<td>County</td>
<td>FY2021</td>
</tr>
<tr>
<td>Design of US 1 at Guifford and Rowanberry</td>
<td>Mow</td>
<td>#1K to #2K</td>
<td>County</td>
<td>FY2021</td>
</tr>
<tr>
<td>Paving of the Patuxent Brench Trail</td>
<td>Shared Use Pathway</td>
<td>#1K to #2K</td>
<td>County</td>
<td>FY2021</td>
</tr>
<tr>
<td>Construction of Rogers Avenue Sidewalks</td>
<td>Sidewalks</td>
<td>#1K to #2K</td>
<td>County</td>
<td>FY2021</td>
</tr>
<tr>
<td>Planning of the Stevens Forest Road/Broken Land Parkway Intersection</td>
<td>HLC/Landscaping Pathway</td>
<td>#200K to #1M</td>
<td>County</td>
<td>FY2021</td>
</tr>
<tr>
<td>Design of the South Entrance Trail</td>
<td>HLC/Landscaping Pathway</td>
<td>#200K to #1M</td>
<td>County</td>
<td>FY2021</td>
</tr>
<tr>
<td>Design of Sumner Road</td>
<td>Mow</td>
<td>#1K to #2K</td>
<td>County</td>
<td>FY2021</td>
</tr>
<tr>
<td>Design of Montgomery Road Sidewalks</td>
<td>Sidewalks</td>
<td>$300K to #1M</td>
<td>County</td>
<td>FY2021</td>
</tr>
<tr>
<td>Design of the Clarksville/River Hill Streetscape Pathway</td>
<td>Mow</td>
<td>More than #8M</td>
<td>County</td>
<td>FY2021</td>
</tr>
<tr>
<td>Design of HS#13 access (Guifford Road/Mission Road sidewalk)</td>
<td>Sidewalks</td>
<td>$250K to #1M</td>
<td>County</td>
<td>FY2020</td>
</tr>
<tr>
<td>Planning for Complete Streets on Columbia Road, Oakland Mills Road, and Tamarr Drive</td>
<td>Mow</td>
<td>$1M to $3M</td>
<td>County</td>
<td>FY2020</td>
</tr>
<tr>
<td>Planning for the Hickory Ridge Bike Corridor</td>
<td>Mow</td>
<td>#1K to $50K</td>
<td>County</td>
<td>FY2020</td>
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<tr>
<td>Planning for the Robert Fulton Drive Pathway</td>
<td>Shared Use Pathway</td>
<td>#1K to #2K</td>
<td>County</td>
<td>FY2020</td>
</tr>
<tr>
<td>Design of the Broken Land Parkway/MD 32 Park &amp; Ride Access Project</td>
<td>Sidewalks</td>
<td>#250K to #1M</td>
<td>County</td>
<td>FY2020</td>
</tr>
<tr>
<td>Planning of School Route Pedestrian Improvements</td>
<td>Sidewalks</td>
<td>#250K to #1M</td>
<td>County</td>
<td>FY2020</td>
</tr>
</tbody>
</table>

Over 35 Active Bicycle and Pedestrian Projects – Estimated Construction Value > $40 million
STRATEGIES FOR INCREASING TRANSIT RIDERSHIP

REPLACE OLDER BUSES

Objective: Improve service reliability and on-time performance

<table>
<thead>
<tr>
<th>Fiscal Year</th>
<th>Number</th>
<th>Type of Vehicle</th>
<th>Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>2018</td>
<td>7</td>
<td>Transit Bus</td>
<td>$2,600,000</td>
</tr>
<tr>
<td>2019</td>
<td>6</td>
<td>Transit Bus</td>
<td>$2,200,000</td>
</tr>
<tr>
<td>2020</td>
<td>2</td>
<td>Transit Bus</td>
<td>$745,00</td>
</tr>
<tr>
<td>2020</td>
<td>5</td>
<td>Transit Van</td>
<td>$300,000</td>
</tr>
<tr>
<td>2021</td>
<td>3</td>
<td>Transit Bus</td>
<td>$1,200,000</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td><strong>TOTAL</strong></td>
</tr>
</tbody>
</table>

IMPROVE BUS STOPS

Objective: Improve condition, amenities and access at RTA transit stops

- Spent $675,000 since 2017 improving + 80 bus stop locations
- Anticipate improving 50 locations in 2020
- Coordinate with complete streets effort

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Bus Stop Example Projects:

US 1 at Port Capital

- Relocated stop
- Installed ADA landing pad
- Installed sidewalk/curb ramp connection
- Installed passenger shelter

Guilford Road at US 1

- Relocated stop
- Installed ADA landing pad
- Installed sidewalk with curb ramp connection
STRATEGIES FOR INCREASING TRANSIT RIDERSHIP
TRANSIT DEVELOPMENT PLAN SERVICE IMPROVEMENTS
PHASE 1 (FY2019 - FY2020)

Objective: Increase transit usage by providing more frequent and weekend service

- Eliminated fixed route fares for seniors & individuals with disabilities
- Added over 5,600 service hours
- Improved connections to jobs
- Increased frequency of service to 30 minutes and 1 hour
- Added 3 new routes to provide more direct connections
- Implemented NEW or EXPANDED Sunday service on 6 routes
- Added new stops to provide more access
- Adjusted routes and schedules to improve on-time performance
- Established partnership with the Howard County Public School System

TRANSIT DEVELOPMENT PLAN SERVICE IMPROVEMENTS PHASE 2 (FY2021 - FY2024)

Objective: Increase transit usage by expanding service to unserved and under-served areas and connecting to MTA, Ride-On, and Metro services
MOBILE PAYMENT - Added Convenience (Spring 2020)
Objective: Improve the ease and convenience of purchasing and paying transit fare on RTA

- Removes the need for passengers to carry cash
- Keeps tickets organized and easily accessible
- Allows easy purchase of tickets online for others
- Increases speed of passenger boarding
- Reduces the cost of fare collection

BUS INFORMATION ON MOBILE APPS (Spring 2020)
Objective: Improve trip planning capabilities and customer experience

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Howard County Office of Transportation
Howard County Police Department
Department of Public Works
James Irvin, Director

To advance the quality of life for our community by providing exceptional level of public service
DPW – Bureaus

- Engineering
- Environmental Services
- Facilities
- Highways
- Utilities
Roadway System

- 1,080 centerline miles of roadway
  - Arterial, Collector and Local Streets
- Approximately 3,600 County owned and maintained roadways
- Infrastructure in the Public Right of Way
  - 900 miles of sidewalk
  - 300,000 street trees
  - 31,000 street signs
  - 100 traffic signals
  - 7,950 street lights
Highway System Preservation Program

- All roads inspected every two years
- Assigned a rating based on their condition
- Programmed for resurfacing/maintenance
- Average life of 15 years before repairs are needed
- Currently averaging $5M in funding
Capital Budget Program

- Over 90 approved Capital Projects
  - Roadway Projects
  - Intersection Improvements Program
  - Bridge Replacement Program
  - Drainage Projects
  - Sidewalk Projects

- Complete Streets Implementation
  - Resurfacing Program
  - Capital Budget
2019 Road Resurfacing Projects

- 39.15 Lane miles of Resurfacing
- 12.52 Center line miles of Micro Surfacing
- 8773 tons of patching
- 43 ADA ramps upgraded
Implementation Challenges

- Funding
- Land acquisition
- Utility relocation
- Storm water management
Stephens Road Bridge Replacement Project

- Bridge in the flood plain
- Missing sidewalks
- No shoulders
Foundry Street Project
ADA Ramps Cross walks and Medians
Thank You
Highway Safety

- Maryland Strategic Highway Safety Plan

- 6 Emphasis Areas (EAs)
  - Aggressive Driving
  - Distracted Driving
  - Highway Infrastructure
  - Impaired Driving
  - Occupant Protection
  - Pedestrian and Bike Safety

- Grant-funded traffic safety campaigns
Highway Safety

- Coordination, Collaboration, Communication
- Four E’s of Traffic Safety
  - Enforcement
  - Engineering
  - Education
  - Emergency Medical Services
- New: Howard County Strategic Road Safety Plan for 2020-2024
Automated Enforcement

➢ Red-Light Camera Enforcement
   ✓ 26 cameras monitoring 18 intersections

➢ School Zone Speed Camera Enforcement
   ✓ 6 cameras rotating 194 enforcement locations

➢ **New**: School Bus Stop-Arm Camera Enforcement
   ✓ June 2019: CB18-2019 was passed
   ✓ 100% of fleet by 2020-2021 school-year
Questions?