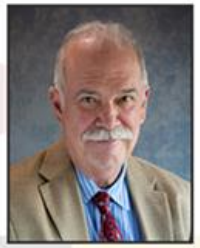
TRANSPORTATION FORUM

Hosted by
Calvin Ball, Howard County Executive

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

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*



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 Eatough, Bicycle and Pedestrian Coordinator

Kris Jagarapu, Chief, Bureau of Highways

Cristin Tolen, 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

TRANSPORTATION FORUM

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

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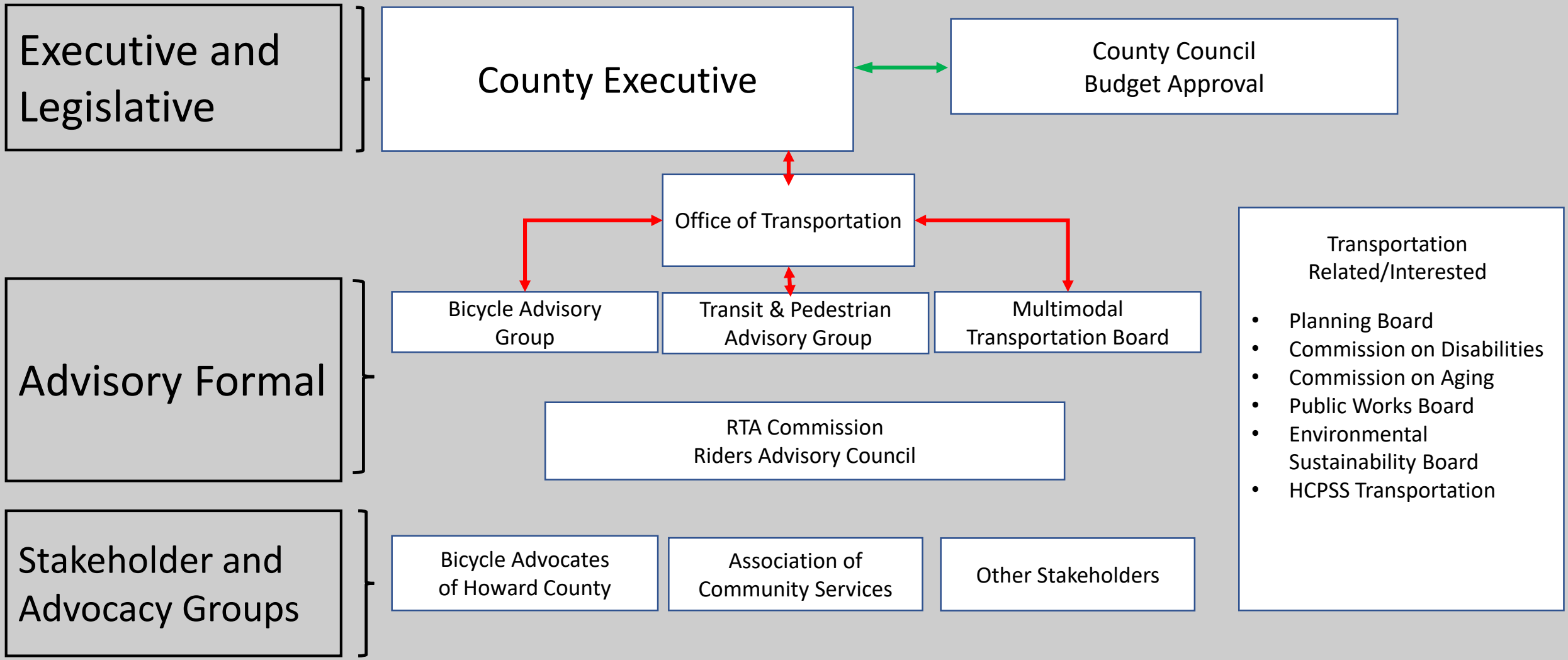
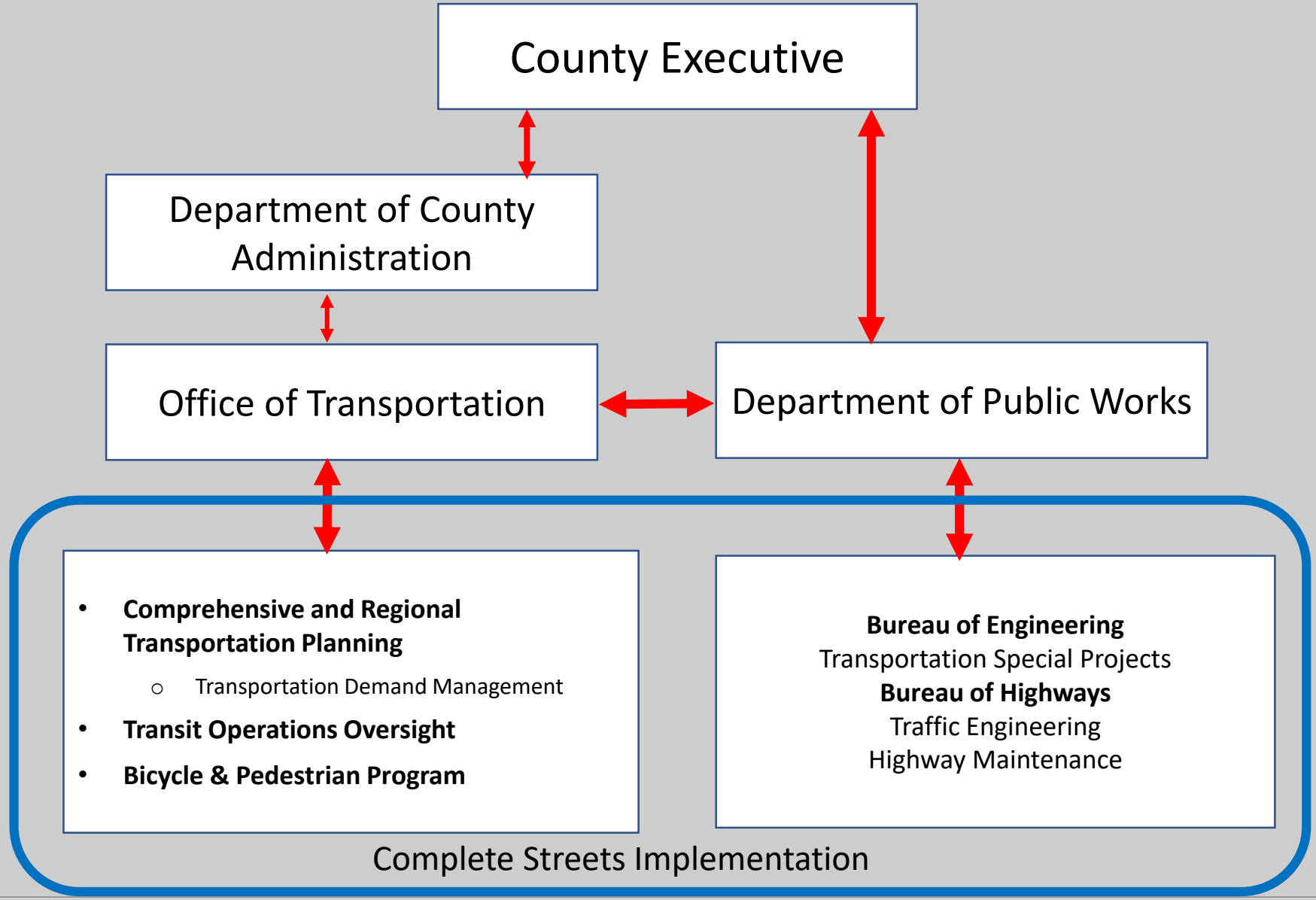
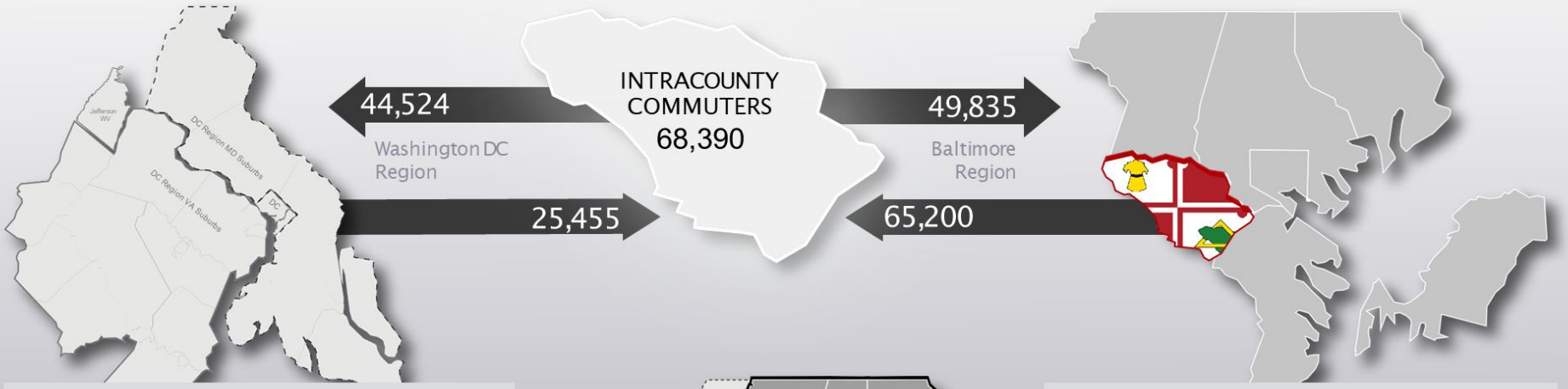

Executive and Legislative
County Executive
County Council
Budget Approval
Office of Transportation
Advisory Formal
Bicycle Advisory Group
Transit & Pedestrian Advisory Group
Multimodal Transportation Board
RTA Commission
Riders Advisory Council
Transportation Related/Interested
Planning Board
Commission on Disabilities
Commission on Aging
Public Works Board
Environmental Sustainability Board
HCPSS Transportation
Stakeholder and Advocacy Groups
Bicycle Advocates of Howard County
Association of Community Services
Other Stakeholders


County Executive
Department of County Administration
Office of Transportation
Department of Public Works
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
Complete Streets Implementation

Howard County Commuter Travel



DC Region	Out	In	Net Imp/Exp: (In - Out)
Alexandria city, Virginia	395	155	-240
Arlington County, Virginia	1,110	235	-875
Calvert County, Maryland	30	345	315
Charles County, Maryland	85	375	290
Culpeper County, Virginia	0	25	25
District of Columbia, District of Columbia	8,395	1,050	-7,345
Fairfax City, Virginia	50	0	-50
Fairfax County, Virginia	2,055	920	-1,135
Fauquier County, Virginia	0	10	10
Frederick County, Maryland	900	3,155	2,255
Jefferson County, West Virginia	15	85	70
Loudoun County, Virginia	185	245	60
Manassas City, Virginia	4	40	36
Montgomery County, Maryland	16,455	8,635	-7,820
Prince George's County, Maryland	14,765	9,870	-4,895
Prince William County, Virginia	80	200	120
Spotsylvania County, Virginia	0	75	75
Stafford County, Virginia	0	35	35
Subtotal - DCRegion	**44,524**	**25,455**	**-19,069**

Baltimore Region (Outside Howard)	Out	In	Net Imp/Exp (In - Out)
Anne Arundel County, Maryland	18,240	19,265	1,025
Baltimore City, Maryland	16,730	11,220	-5,510
Baltimore County, Maryland	13,025	23,540	10,515
Carroll County, Maryland	1,355	8,580	7,225
Harford County, Maryland	485	2,065	1,580
Queen Anne's County, Maryland	0	530	530
Subtotal - Baltimore Region (Outside Howard)	**49,835**	**65,200**	**15,365**

All Other Jurisdictions	1,409	3,980	2,571
Grand Total (Balt Reg, DC Reg, All Other)	95,768	94,635	-1,133

Source: U.S. Census Bureau, American Community Survey 2012-2016 5-year estimates. Special Tabulation: Census Transportation Planning Products Program

BALTIMORE METROPOLITAN COUNCIL

www.baltometro.org

November 2019/SK LB

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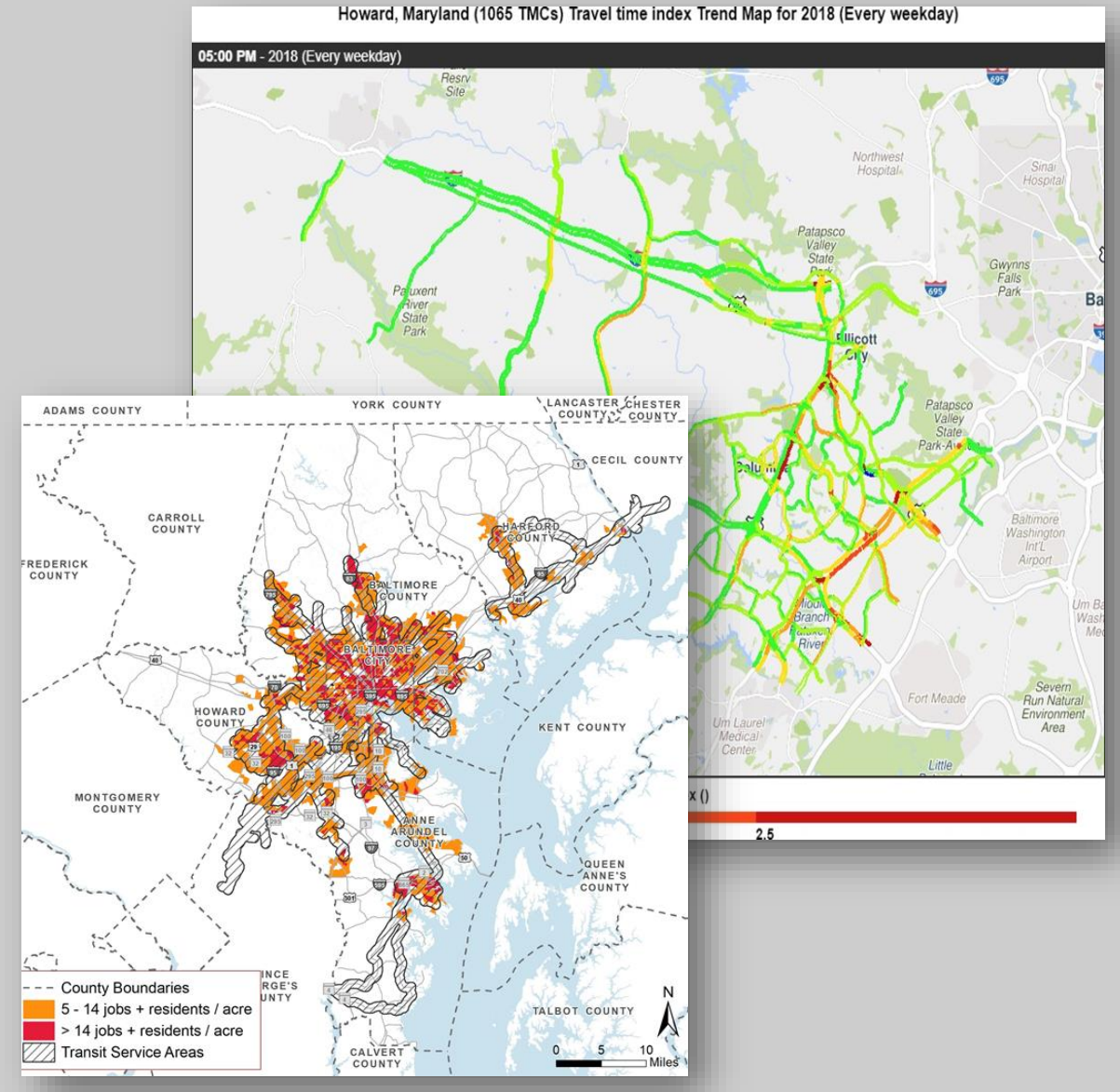
COMPREHENSIVE TRANSPORTATION PLANNING: HOW WE PLAN

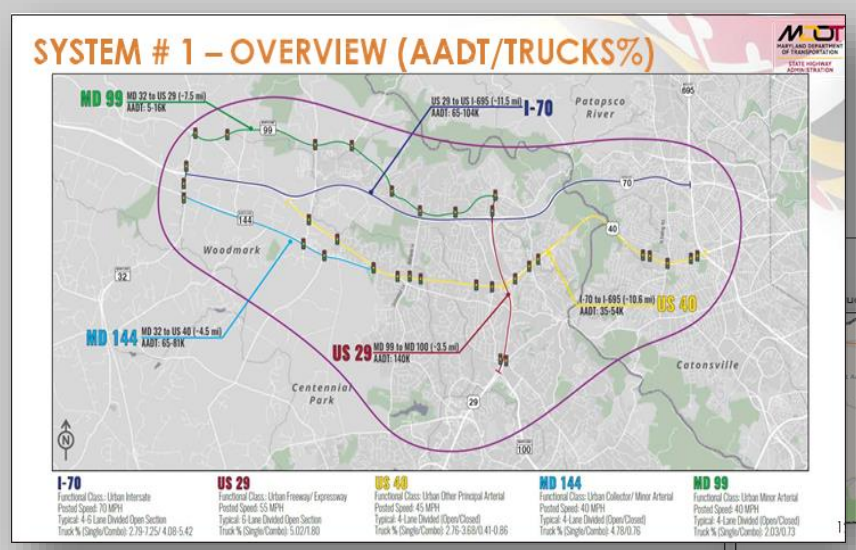
Demographic data and information that guide decision making:

- 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



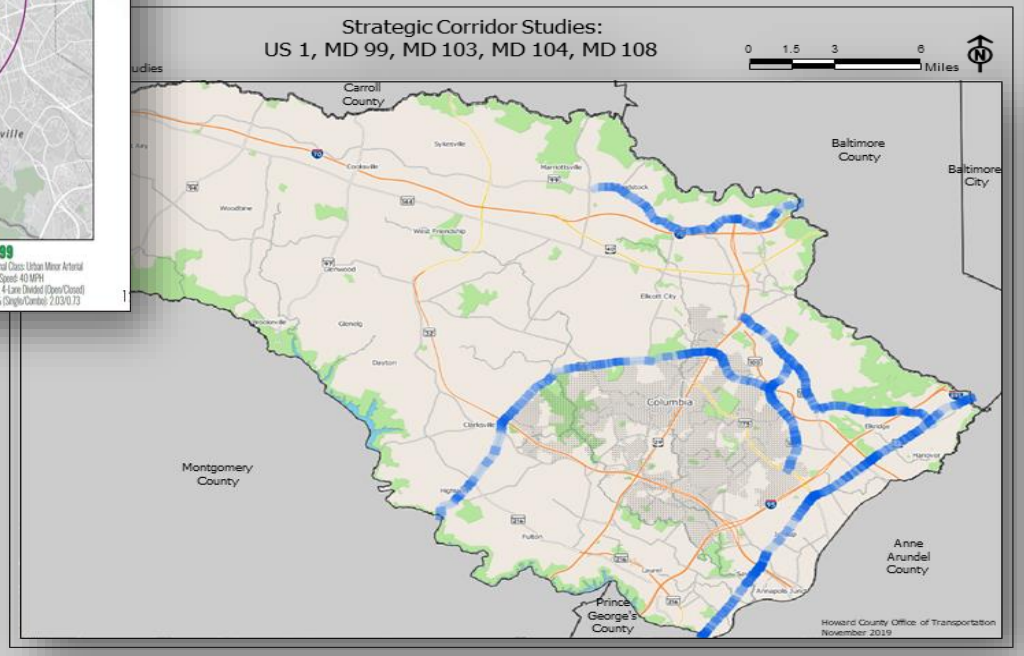
COMPREHENSIVE - LONG RANGE TRANSPORTATION PLANNING

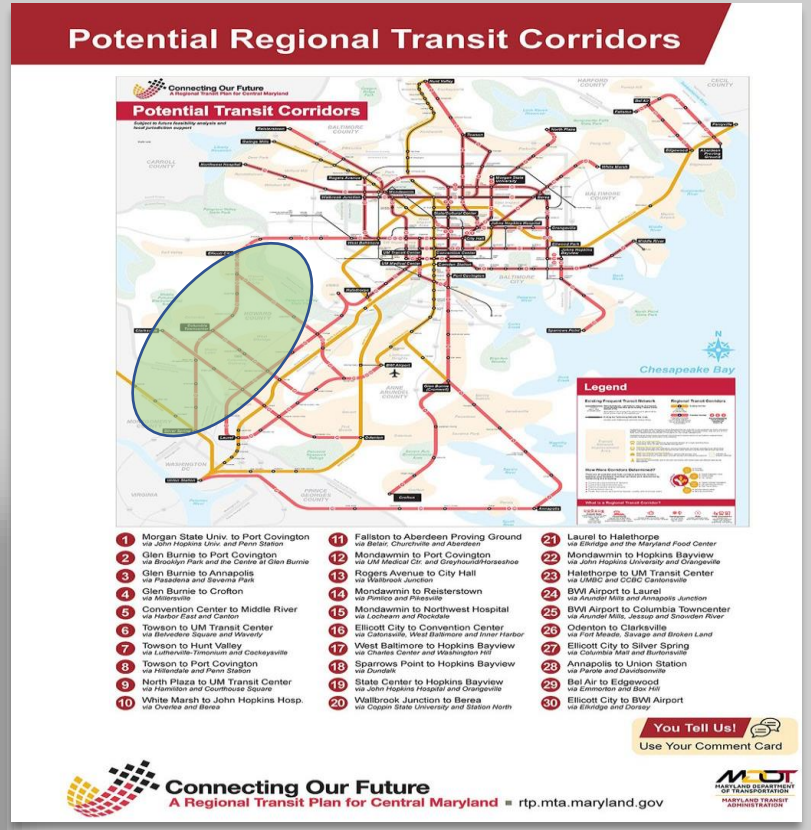
EXAMPLE PROJECTS



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.



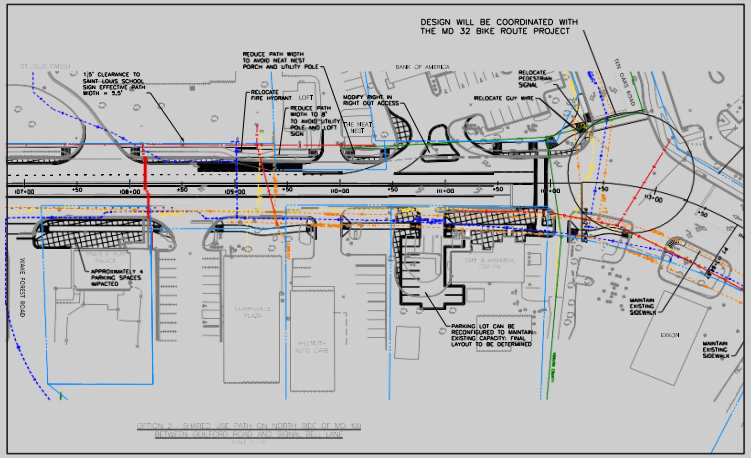


The Regional Transit Plan for Central Maryland is developing and guiding public transportation goals for the next 25 years, addressing traditional transit, and exploring new mobility options and technology to meet regional transit needs.

Examples of Local Transportation Capital Projects in Howard County

Oakland Mills Road

Foundry Street Pathway

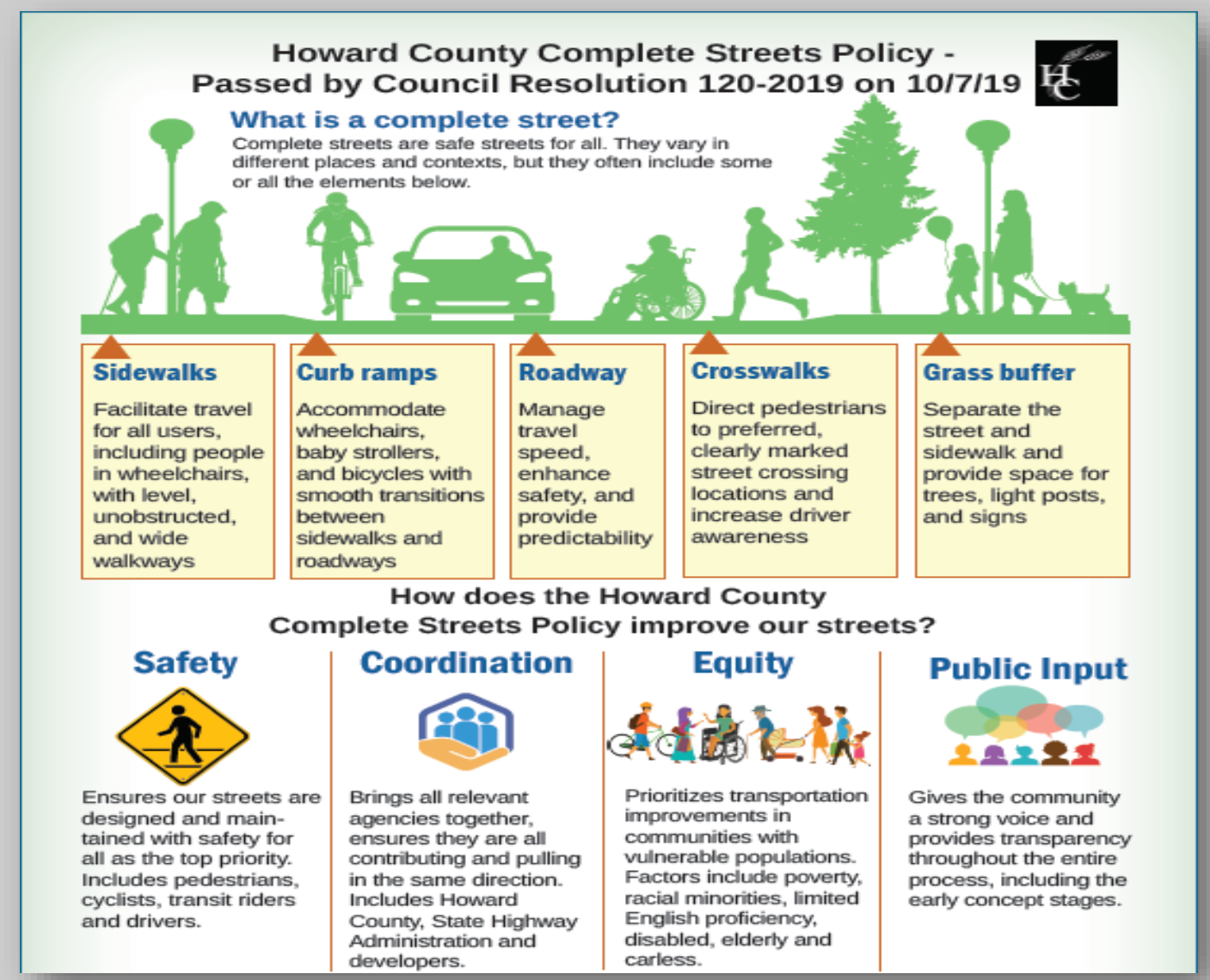


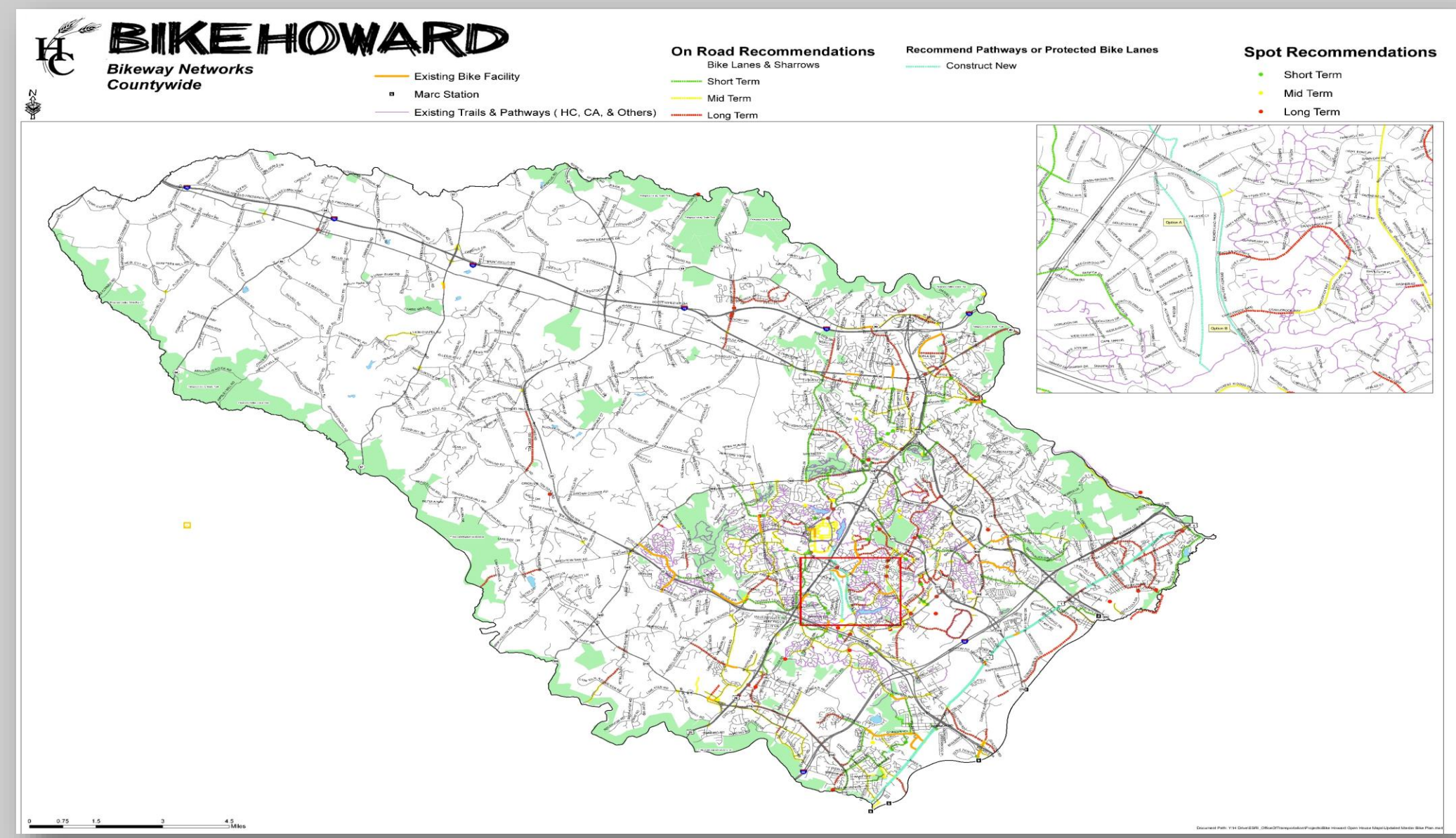
Clarksville Pike Streetscape

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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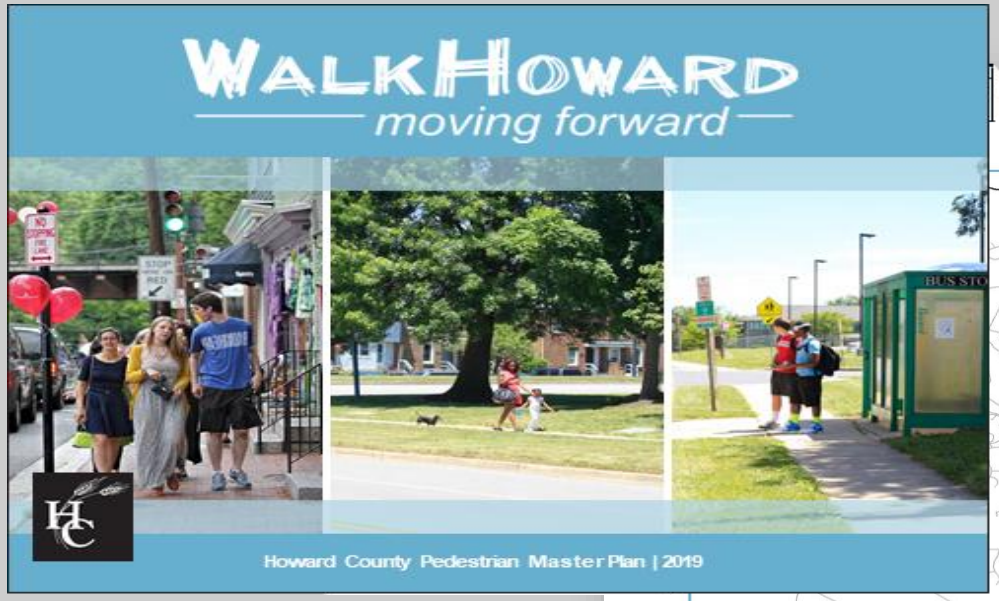
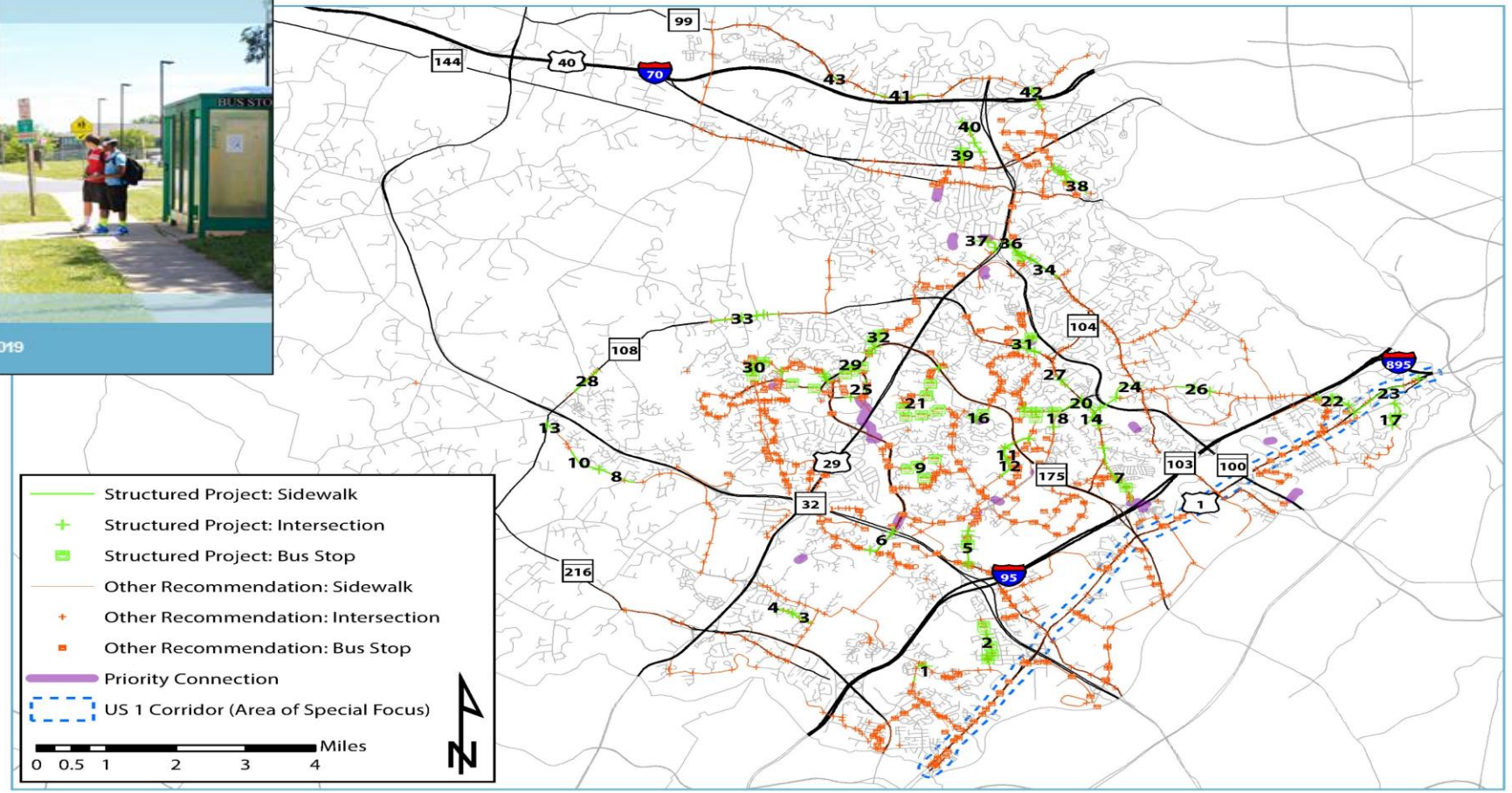


www.walkhoward.org



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Over 35 Active Bicycle and Pedestrian Projects – Estimated Construction Value > $40 million

Project Name	Facility Type	Construction Cost	Capital Project	Planning	Design	Land Acquisition	Construction	Complete	Anticipated Construction Start
Complete: Final Report of the US 1 Safety Evaluation	Mixed	N/A	UPWP						FY2019
Complete: Accessible Connection between North Laurel Community Center and MultiService Center	Sidewalks	$10K to $250K	C0332						FY2019
Construction of North Laurel Connections	Mixed	$1M to $3M	K5066; J4248						FY2020
Design of Savage-Area Complete Streets	Mixed	$10K to $250K	J4248						FY2020
Construction of the Twin Rivers Pathway	Shared-Use Pathway	TBD	Developer						FY2020
Construction of Oakland Mills Rd in the Guilford Community (Phase 1, south of Guilford Elementary School)	Mixed	$1M to $3M	J4207						FY2020
Construction of the Stephens Road Bridge Replacement	Sidewalks, Bike Lanes	More than $3M	J4202						FY2020
Construction of the Foundry Street Pathway	Sidewalks	$10K to $250K	J4248						FY2020
Construction of Whiteacre Road	Bike Lanes	$250K to $1M	C0287						FY2020
Construction of Merriweather District Pathways	Shared-Use Pathway	TBD	Developer						FY2020
Construction of the Vollmerhausen Road Pedestrian Refuge Island and Crosswalk at Castleford Drive	Crosswalk	$10K to $250K	T7088						FY2020
Complete: HCC Connector Pathway	Mixed	$10K to $250K	K5066						FY2020
Complete: Oakland Mills Road, Sybert, and Lynn Lane sidewalk gaps filled	Sidewalks	$10K to $250K	K5061						FY2020
Complete: Bike Lanes on Hickory Ridge Road, Summer Sunrise Drive, Ducketts Lane, and Levering Avenue Sharrows	Bike Lanes	$10K to $250K	K5066						FY2020
Complete: Columbia Road/Kingscup/Hemlock Cone roundabout with new crosswalks	Roundabout and Crosswalks	$250K to $1M	T7106						FY2020
Complete: Stevens Forest Road/Farewell Road/Night Street Hill roundabout with new crosswalks	Roundabout and Crosswalks	$250K to $1M	T7106						FY2020
Planning of Countywide Bike Wayfinding	Wayfinding	$10K to $250K	K5066						FY2021
Planning of US 1 at Brewers Ct and Doctor Patel Dr	Crosswalks	$1M to $3M	C0285						FY2021
Construction of Frederick Road Sidewalks	Sidewalks	$250K to $1M	K5061						FY2021
Construction of the Cedar Lane Pathway	Shared-Use Pathway	$250K to $1M	K5066						FY2021
Design of the Dobbin Rd Pathway Phases I, II, and III	Shared-Use Pathway	More than $3M	K5066						FY2021
Design of Doncaster Road Sidewalks	Sidewalk	$10K to $250K	K5065						FY2021
Design of US 1 at Guilford and Rowanberry	Mixed	$1M to $3M	K5066; C0285						FY2021
Paving of the Patuxent Branch Trail	Shared-Use Pathway	$1M to $3M	N3963						FY2021
Construction of Rogers Avenue Sidewalks	Sidewalks	$1M to $3M	J4170						FY2021
Planning of the Stevens Forest Road/Broken Land Parkway Intersection	Bike Lanes and Sidewalks	TBD	T7107						FY2022
Design of the South Entrance Trail	Shared-Use Pathway	More than $3M	T7107						FY2022
Design of Sanner Road	Bike Lanes	$1M to $3M	J4230						FY2022
Design of Montgomery Road Sidewalks	Sidewalks	$250K to $1M	K5061						FY2022
Design of the Clarksville/River Hill Streetscape Pathway	Mixed	More than $3M	T7108						FY2023
Design of HS#13 access (Guilford Road/Mission Road sidewalks)	Sidewalk	$250K to $1M	Various						FY2023
Planning for Complete Streets on Columbia Road, Oakland Mills Road, and Tamar Drive	Mixed	$1M to $3M	K5066						TBD
Planning for the Hickory Ridge Bike Corridor	Mixed	TBD	K5066						TBD
Planning for the Robert Fulton Drive Pathway	Shared-Use Pathway	$1M to $3M	K5066						TBD
Design of the Broken Land Parkway/MD 32 Park & Ride Access Project	Shared-Use Pathway	$250K to $1M	K5066						TBD
Planning of School Route Pedestrian Improvements	Sidewalks and Crosswalks	TBD	K5035						TBD

STRATEGIES FOR INCREASING TRANSITRIDERSHIP

REPLACE OLDER BUSES

Objective: Improve service reliability and on-time performance

Recent Investment			
Fiscal Year	Number	Type of Vehicle	Cost
2018	7	Transit Bus	$2,600,000
2019	6	Transit Bus	$2,200,000
2020	2	Transit Bus	$745,00
2020	5	Transit Van	$300,000
2021	3	Transit Bus	$1,200,000
TOTAL			**$7,045,000**

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

Bus Stop Example Projects:

US 1 at Port Capital

Before

After

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

Guilford Road at US 1

Before

After

- 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

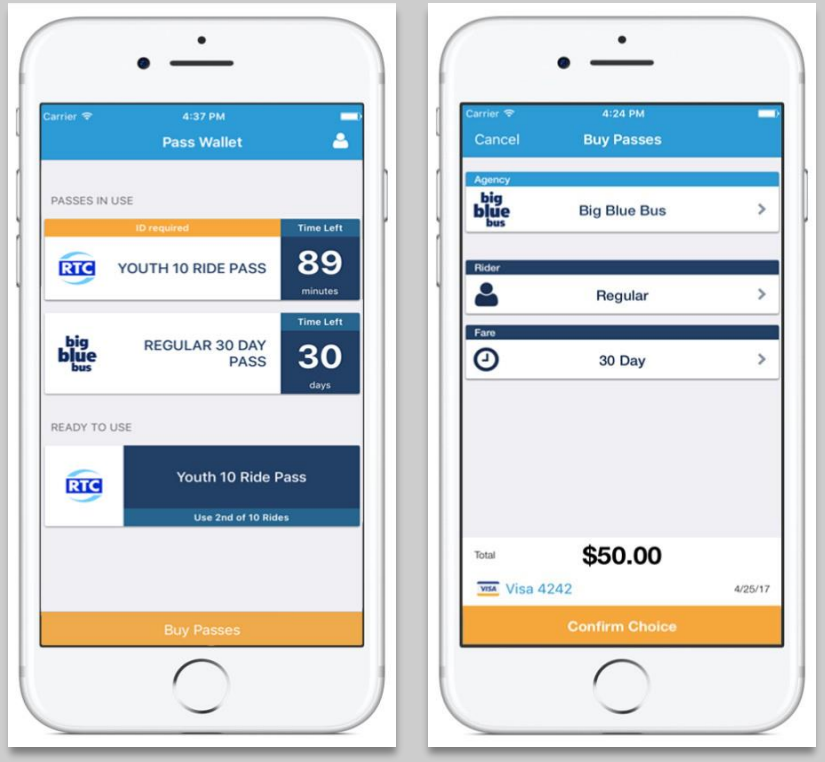
TRANSIT DEVELOPMENT PLAN SERVICE IMPROVEMENTS PHASE 2 (FY2021 - FY2024)

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)

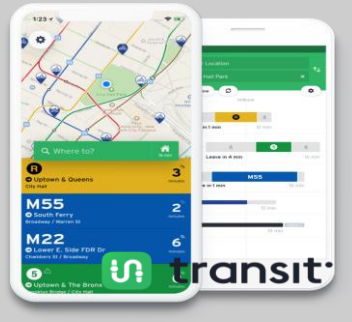
Objective: Improve the ease and convenience of purchasing and paying transit fare on RTA

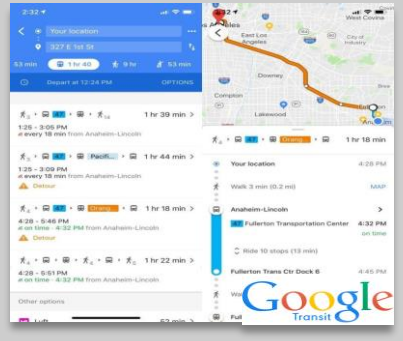
- Removes the need for passengers to carry cash
- Keeps tickets organized and easily accessible
- Allows easy purchase of tickets online for others
- Increases speed of passenger boarding
- Reduces the cost of fare collection

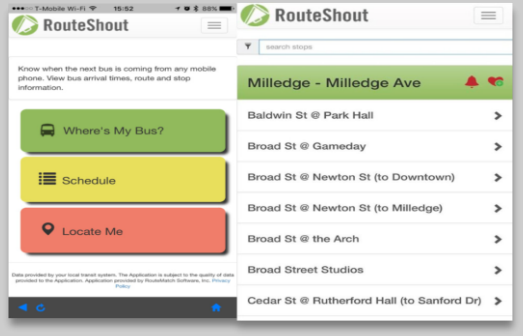


BUS INFORMATION ON MOBILE APPS (Spring 2020)

Objective: Improve trip planning capabilities and customer experience







Transportation Demand Management is moving people, not vehicles, creating a more efficient use of our roadways. This results in less traffic congestion, better air quality, and even happier, healthier communities.

That's a long way of saying it's about providing and encouraging **Transportation Options** for those who want them.

WHAT IS TRANSPORTATION DEMAND MANAGEMENT?

INCENTRIP:
Earn rewards for smart commuting

TRAVEL TRAINING:
Learn the skills to travel safely and independently on fixed-route public transportation

GUARANTEED RIDE HOME:
Get a free and reliable ride home when life's unexpected emergencies arise

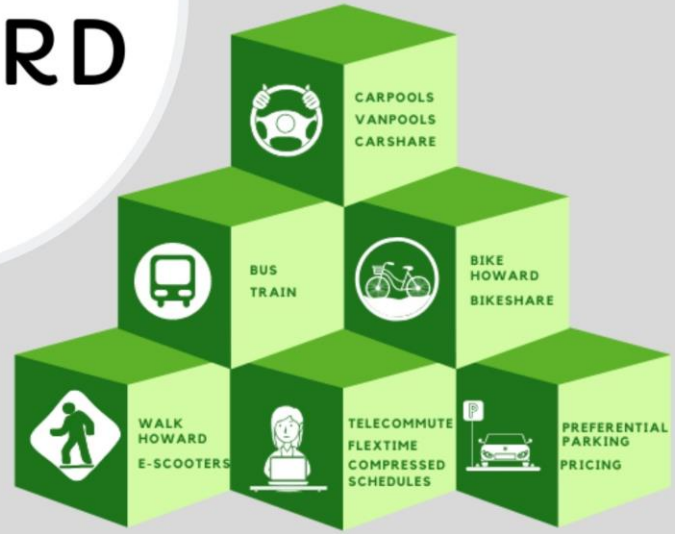
BIKE TO WORK DAY:
Join us in Downtown Columbia for the largest pit stop in the Central Maryland region

RESOURCES & EVENTS

go HOWARD

The Downtown Columbia Plan includes TDM as one element of the overall approach to managing growth. We've partnered with the Downtown Columbia Partnership to implement a TDM program in DTC.

DOWNTOWN COLUMBIA



TDM BUILDING BLOCKS

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Department of Public Works
James Irvin, Director

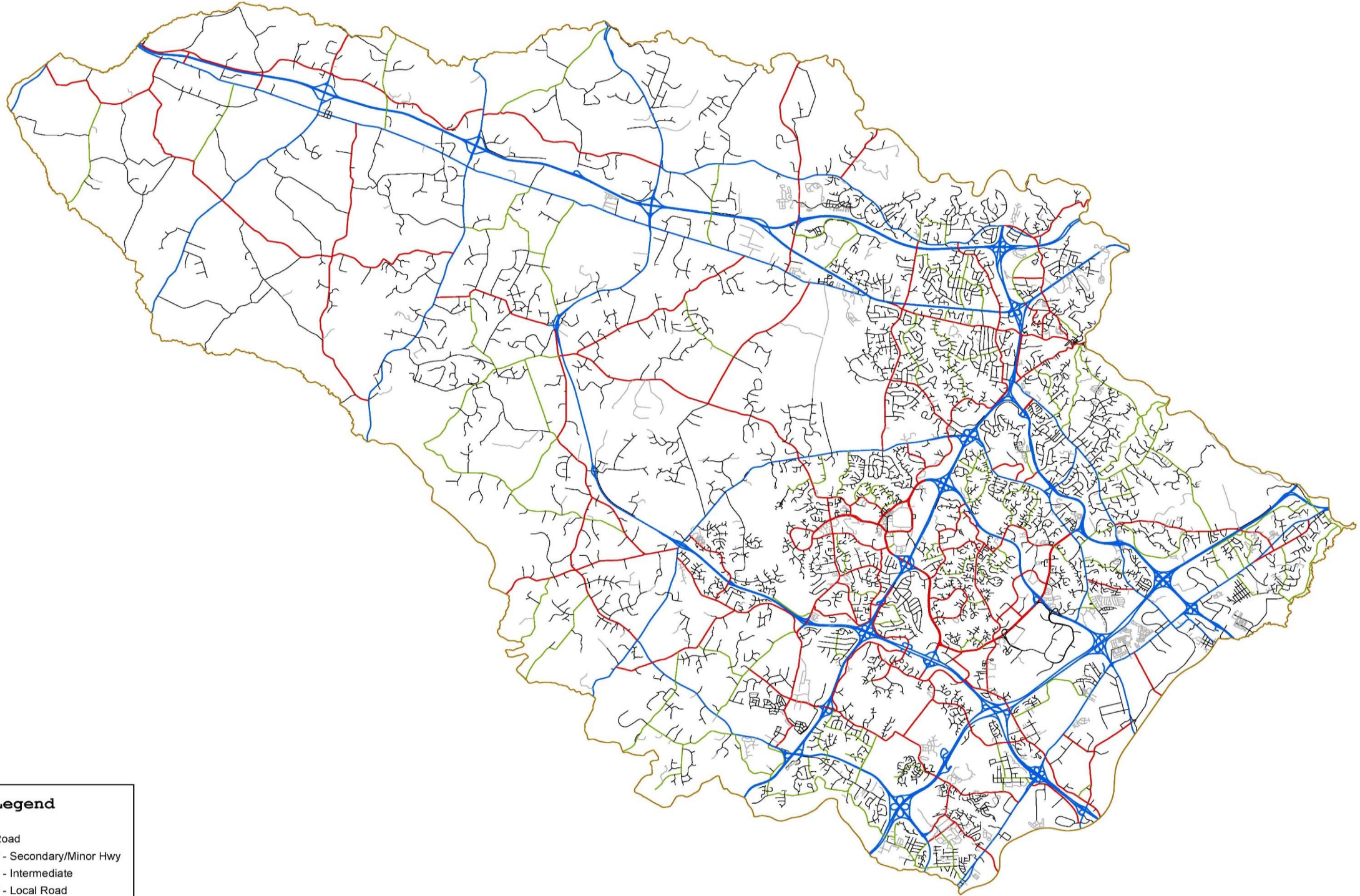
To advance the quality of life for our community by providing exceptional level of public service

DPW – Bureaus

- Engineering
- Environmental Services
- Facilities
- Highways
- Utilities

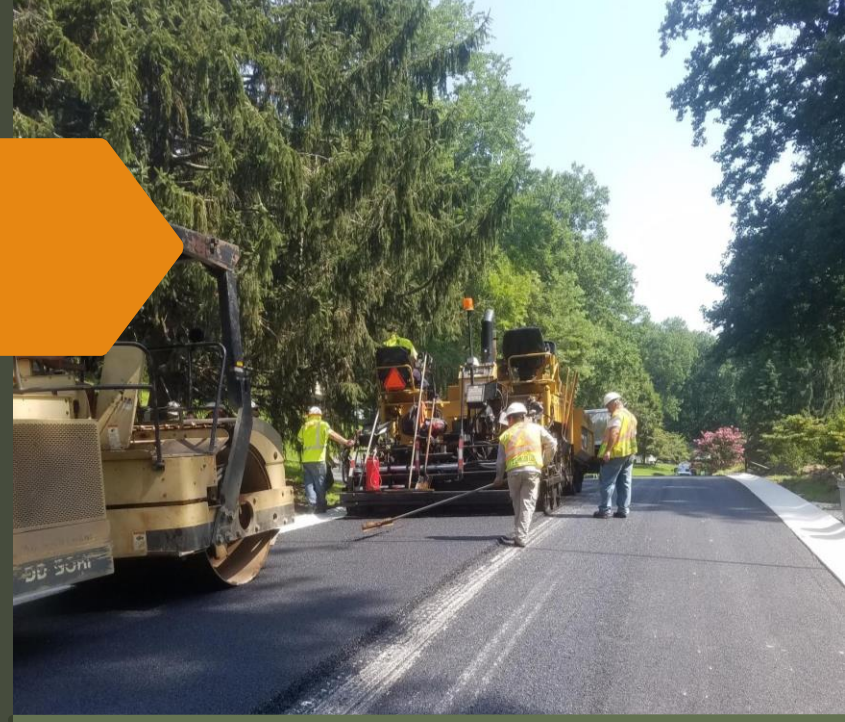
Roadway System

- 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


Legend
State Road
County - Secondary/Minor Hwy
County - Intermediate
County - Local Road

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

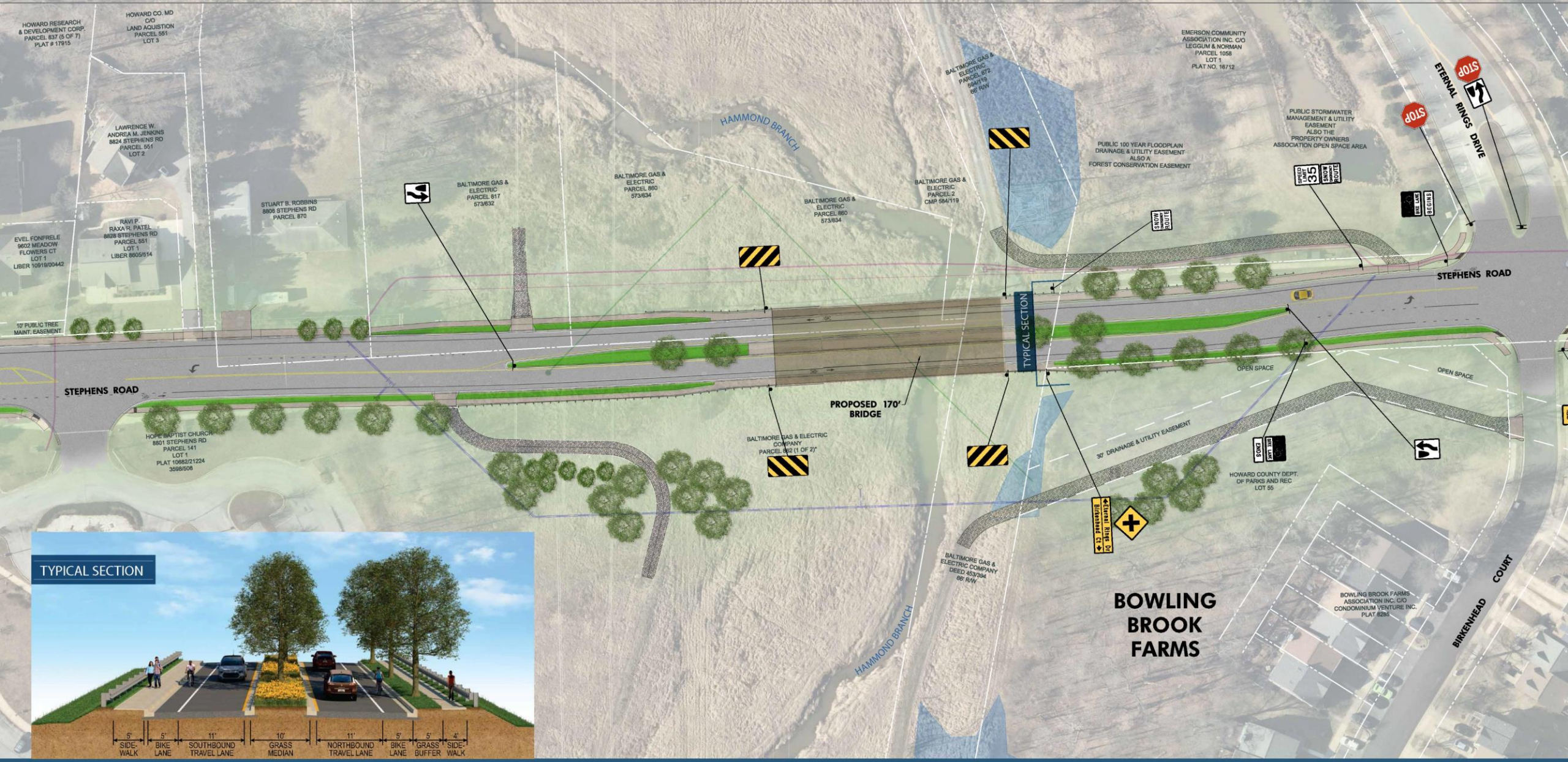
Implementation Challenges

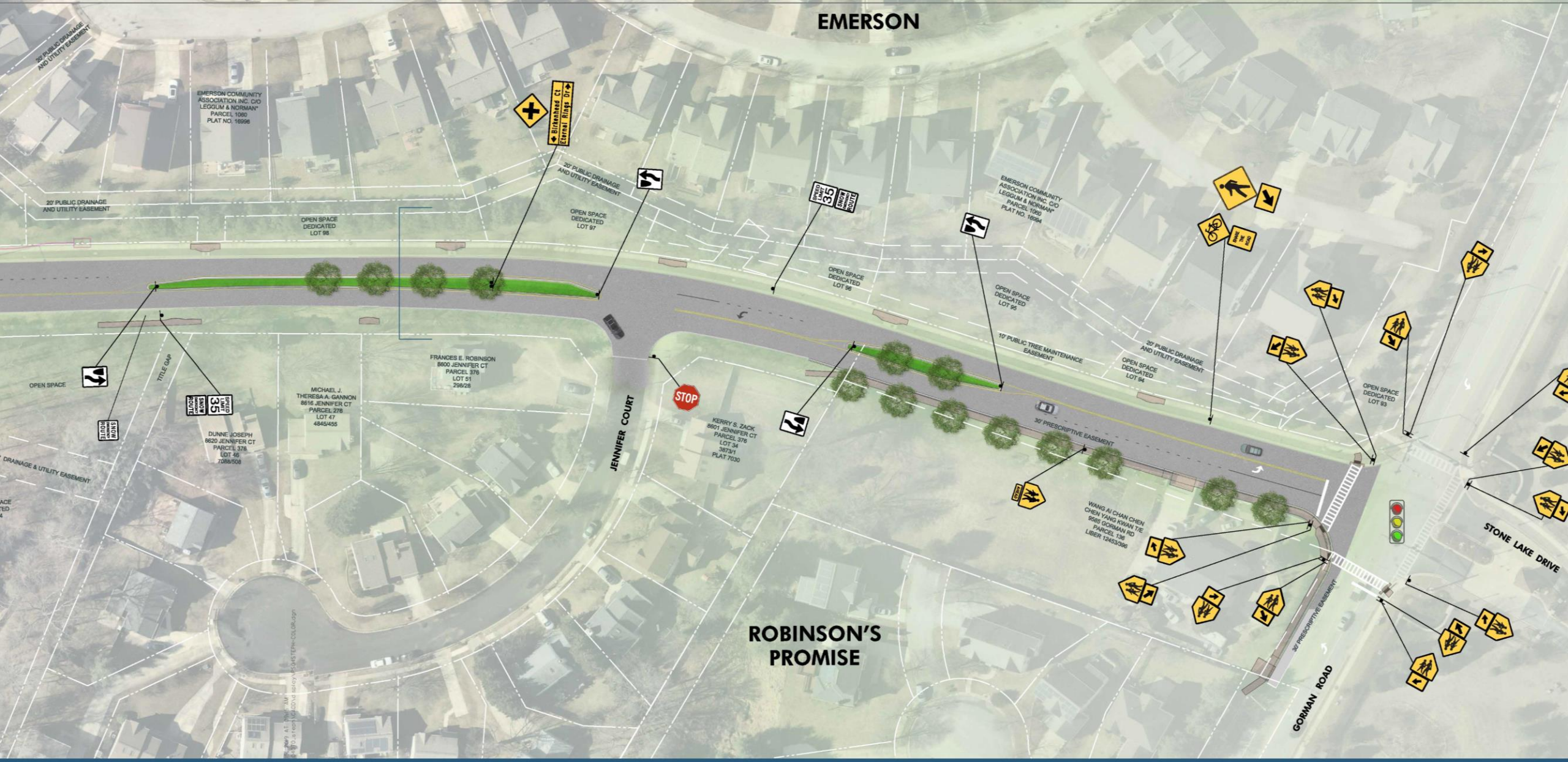
- Funding
- Land acquisition
- Utility relocation
- Storm water management

Stephens Road Bridge Replacement Project

- Bridge in the flood plain
- Missing sidewalks
- No shoulders

WVFG P.A.
MALPRACTICE LAW GROUP
LOT 4
LOT 3
LOT 2
LOT 1
WALLINGTON OVERLOOK AT EMERSON LOTS 1 THRU 4 PLAT MDR 17950
KEITH SIMPSON
KATHLEEN SIMPSON
9607 BOUNDLESS SHADE TERRACE
LOT 20
15 MPH
STOP
BOUNDLESS SHADE TERRACE
HOWARD RESEARCH & DEVELOPMENT CORP.
PARCEL 837 (5 OF 7)
PLAT # 17915
HOWARD RESEARCH & DEVELOPMENT CORP.
PARCEL 837 (5 OF 7)
PLAT # 17915
MEADOW FLOWERS COURT
Whiskey Bottom Rd
STOP
PARCEL "A"
LIBER 05289/00330
30' PUBLIC WATER, SEWER & UTILITY EASEMENT
SHARE THE ROAD
SILE HELEN
9604 BOUNDLESS SHADE TERRACE
LOT 9
13017/00403
BIKE LANE ENDS
MARK C SCHERMERHON
9603 MEADOW FLOWERS CT
LOT 8
LIBER 11026/00200
10' PUBLIC TREE MAINTENANCE EASEMENT
EVEL FONFRELE
9602 MEADOW FLOWERS CT
LOT 1
LIBER 10919/00442
10' PUBLIC TREE MAINTENANCE EASEMENT
STEPHENS ROAD
SHARE THE ROAD
COUNTY RIGHT-OF-WAY
WHISKEY BOTTOM ROAD
KINGS WOODS HOMEOWNERS ASSOCIATION
C/O SDC GROUP
PARCEL 138
LOT 176
SNOW ROUTE
35 MPH
HOWARD CO. DEPARTMENT OF RECREATION & PARKS
PARCEL 138
LOT 174
OPEN SPACE LOT 16
SWM & UTILITY EASEMENT
PRIVATELY MAINTAINED BY H.O.A.
EXISTING PUBLIC WATER & UTILITY EASEMENT (PLAT 19172)
SHRUBS
LIMIT SIGN
EXISTING 10' PUBLIC WATER & UTILITY EASEMENT PLAT 20529
STOP
HAMMOND OVERLOOK COURT
BOLLING BROOK - LOT 2
AND
HAMMONDS PROMISE OVERLOOK
LOTS 17 THRU 19 AND
OPEN SPACE LOT 20
PLAT 21223


HOWARD RESEARCH & DEVELOPMENT CORP. PARCEL 837 (5 OF 7) PLAT # 17915
HOWARD CO. MD C/O LAND AQUISTION PARCEL 551 LOT 3
LAWRENCE W. ANDREA M. JENKINS 8824 STEPHENS RD PARCEL 551 LOT 2
EVEL FONFRELE 9602 MEADOW FLOWERS CT LOT 1 LIBER 10919/00442
RAVI P. RAXA R. PATEL 8828 STEPHENS RD PARCEL 551 LOT 1 LIBER 8605/514
STUART B. ROBBINS 8806 STEPHENS RD PARCEL 870
10' PUBLIC TREE MAINT. EASEMENT
STEPHENS ROAD
HOPE BAPTIST CHURCH 8801 STEPHENS RD PARCEL 141 LOT 1 PLAT 10682/21224 3598/508
BALTIMORE GAS & ELECTRIC PARCEL 817 573/632
BALTIMORE GAS & ELECTRIC PARCEL 860 573/634
BALTIMORE GAS & ELECTRIC PARCEL 860 573/634
HAMMOND BRANCH
BALTIMORE GAS & ELECTRIC COMPANY PARCEL 882 (1 OF 2)*
PROPOSED 170' BRIDGE
BALTIMORE GAS & ELECTRIC PARCEL 2 CMP 584/119
BALTIMORE GAS & ELECTRIC PARCEL 672 584/119 66' R/W
TYPICAL SECTION
EMERSON COMMUNITY ASSOCIATION INC. C/O LEGGUM & NORMAN PARCEL 1058 LOT 1 PLAT NO. 16712
PUBLIC 100 YEAR FLOODPLAIN DRAINAGE & UTILITY EASEMENT ALSO A FOREST CONSERVATION EASEMENT
PUBLIC STORMWATER MANAGEMENT & UTILITY EASEMENT ALSO THE PROPERTY OWNERS ASSOCIATION OPEN SPACE AREA
STOP
ETERNAL RINGS DRIVE
SPEED LIMIT 35 SNOW ROUTE
BIKE LANE BEGINS
STEPHENS ROAD
OPEN SPACE
OPEN SPACE
30' DRAINAGE & UTILITY EASEMENT
HOWARD COUNTY DEPT. OF PARKS AND REC LOT 55
BALTIMORE GAS & ELECTRIC COMPANY DEED 453/394 66' R/W
HAMMOND BRANCH
BOWLING BROOK FARMS
BOWLING BROOK FARMS ASSOCIATION INC. C/O CONDOMINIUM VENTURE INC. PLAT 8285
BIRKENHEAD COURT
TYPICAL SECTION
5' SIDE-WALK
5' BIKE LANE
11' SOUTHBOUND TRAVEL LANE
10' GRASS MEDIAN
11' NORTHBOUND TRAVEL LANE
5' BIKE LANE
5' GRASS BUFFER
4' SIDE-WALK



STEPHENS ROAD IMPROVEMENTS | NOVEMBER 2019

RK&K

Foundry Street Project

SAVAGE MILL
ESTABLISHED 1822
SHOULDER WORK

SAVAGE MILL
ESTABLISHED 1822
FIRST
BAPTIST
CHURCH
Art of Hair

NO
PARKING
ANY
TIME
UNDRY ST

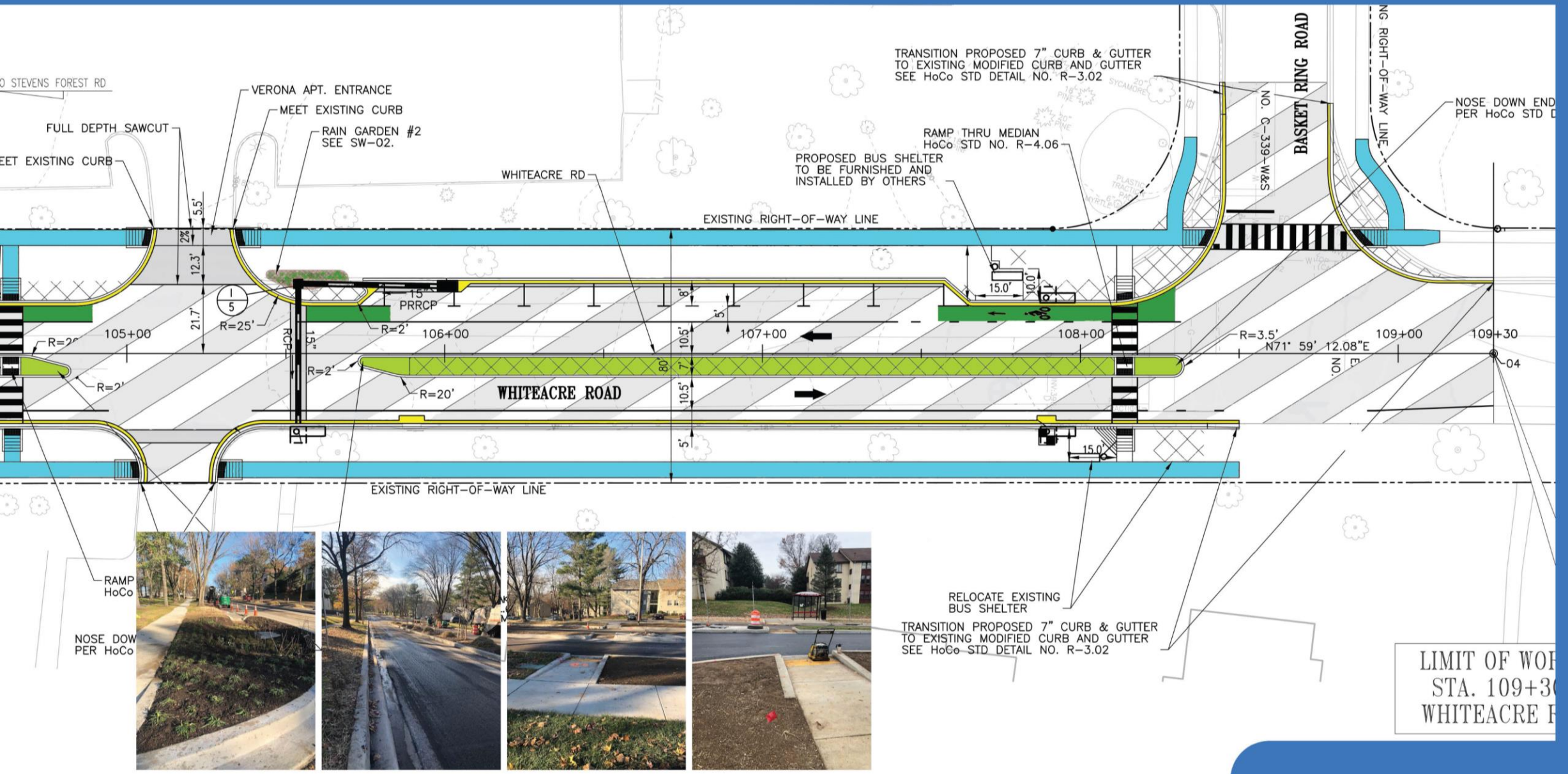
FOUNDRY
ONE WAY
GENERAL PAVING & CONTRACTING
STO
ADDITIONAL PARKING

Foundry St
ONE WAY
ROAD
WORK
1500 FT
HorseSpirit Art Gallery

RTA
BUS
STOP
503
LAUREL
MALL

RTA
BUS
STOP
503
LAUREL
MALL
ROAD
WORK
1500 FT

Complete Streets Improvements



Complete in 2019

White Acres Connectivity to Bus Shelter

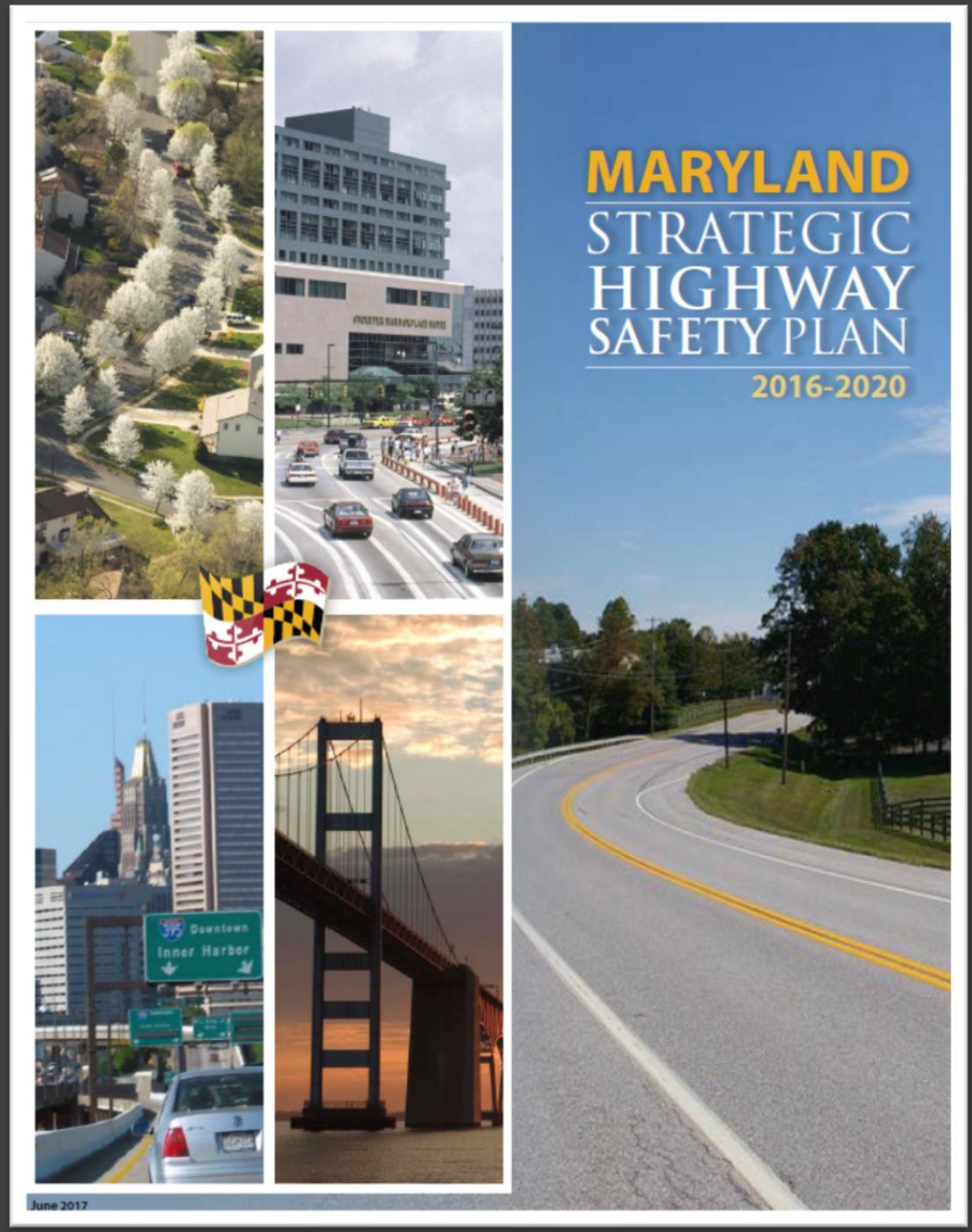
Rain Garden for SWM

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

Highway Safety

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?