



University Drive Traffic Calming



Public Input Meeting

May 21, 2018

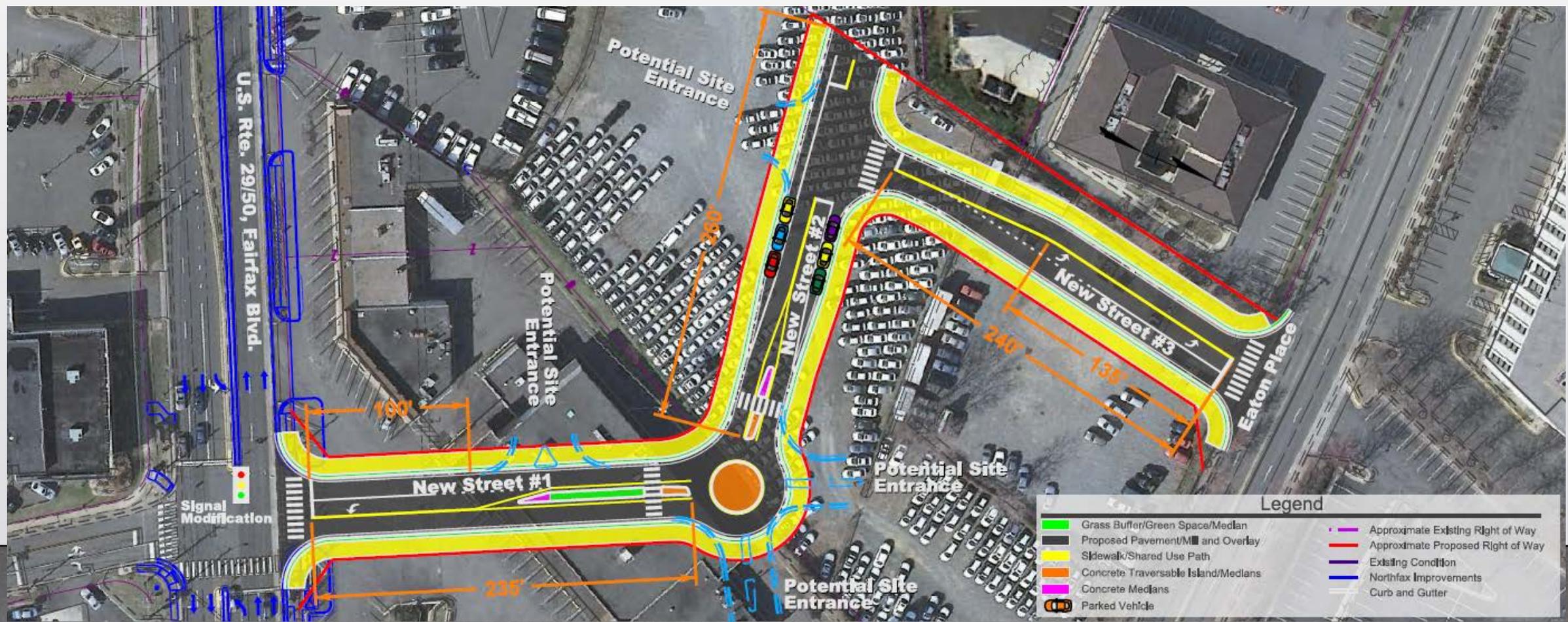


Tonight's Agenda

- Project Background
- Community Concerns
- Traffic Calming Concepts
- Solicit Public Input

Background

Planned new Northfax road between Fairfax Blvd and Eaton Place

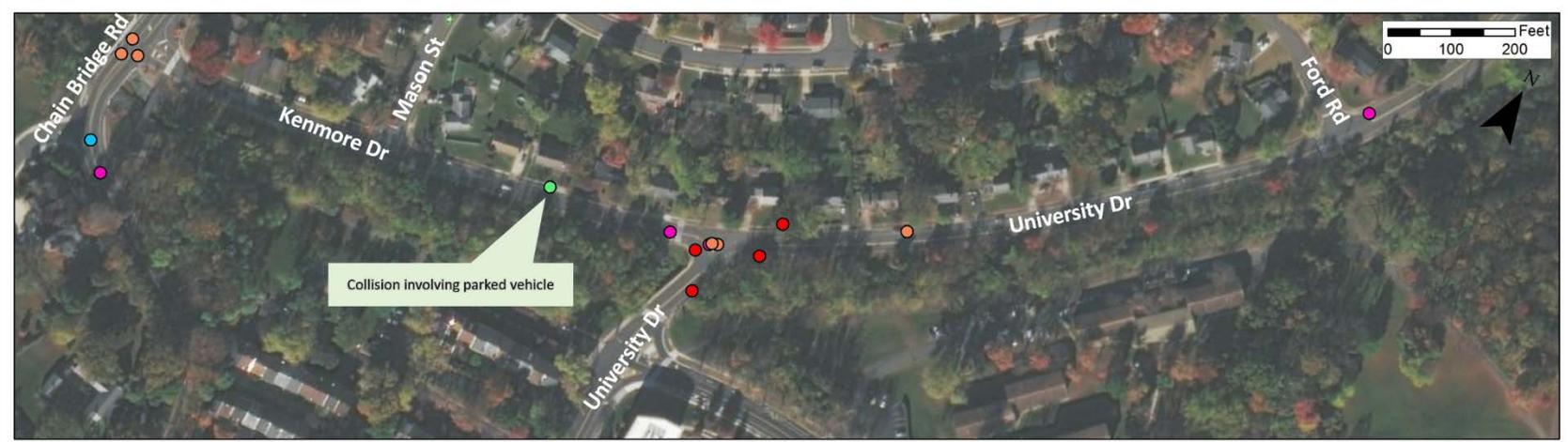




Community Concerns

- Concerns about the current conditions and the impacts of the new street:
 - Traffic through the neighborhood
 - Speeding
 - Parked cars (specifically mirrors) being hit by passing cars
 - Crossing safely at intersections and midblock
- Request: Address the potential future impacts with neighborhood traffic calming measures

3-Year Crash History



- 58 reported crashes
- 8 crashes (13%) involved cars traveling above the speed limit
- 7 crashes (12%) involved parked vehicles
- 1 crash involved a pedestrian

University Drive
Crash Analysis (January 1, 2014 – June 30, 2017)

- Rear End
- Angle
- Sideswipe – Same Direction
- Fixed Object – Off Road
- Ped
- Head On
- Fixed Object in Road



Project Goals

- Develop concepts that will improve safety and calm traffic along University Drive between Kenmore Drive and Fairfax Blvd
- Present a menu of feasible options to the community
- Use community feedback to identify preferred calming measures
- Implement traffic calming improvements

Actions Already Taken

- Advance warning signs to alert vehicles of pedestrian crossing locations
- Mid-crosswalk signs on University Drive at Stratford to increase visibility of crossing location
- New stop sign on southbound University Drive at Stratford





Improvement Options

- Compliant with Manual on Uniform Traffic Control Devices (MUTCD)
 - MUTCD defines nationwide **minimum standards and guidance** for road signs, marking, and other traffic control
 - Compliance with MUTCD means that improvement options are **context appropriate, backed by practical research and data** that support anticipated benefits, and **understandable and recognizable** for residents and visitors.
- Consistent with VDOT Traffic Calming Guide for Residential Neighborhoods (2017)



Improvement Options

- Intersection Treatments
 - Curb Modifications or Extensions/Bulb-Outs
 - New Crosswalks
- Speed Calming
 - Mid-Block Bulb-Outs
 - Community Signage
 - On-Street Parking
- Additional Pedestrian Enhancements
 - Construct missing link of sidewalk
 - Lighting improvements

Intersection Treatment: Curb Modification (Kenmore Drive)

Existing



With Curb Modification



Intersection Treatment: Curb Modification (Kenmore Drive)



Benefits:

- Reduces turning speed
- Signals entry into residential neighborhood
- Removes excess pavement markings from intersection to reduce confusion

Intersection Treatment: Curb Extension/Bulb-Out (Ford Road)

Existing



With Curb Extension/Bulb-Out



Intersection Treatment: Curb Extension/Bulb-Out (Ford Road)



Benefits:

- Narrows pedestrian crossing distance/time
- Improves ability of pedestrians and motorists to see each other
- Buffers parking
- Reduces turning speeds by 6 to 8 mph
- Reduces through traffic speeds by 1 to 3 mph

Tradeoff:

- May affect bicyclists traveling along the edge of the street

Intersection Treatment: Curb Extensions/Bulb-Out
(Stratford Avenue)

Existing



With Curb Extensions



Intersection Treatment: Curb Extensions/Bulb-Out (Stratford Avenue)



Benefits:

- Narrows pedestrian crossing distance/time
- Improves ability of pedestrians and motorists to see each other
- Buffers parking
- Reduces turning speeds by 6 to 8 mph
- Reduces through traffic speeds by 1 to 3 mph

Tradeoff:

- May affect bicyclists traveling along the edge of the street

Intersection Treatment: New Crosswalk (Jean Street)

Existing



With Crosswalk



Intersection Treatment: New Crosswalk (Jean Street)



Benefits:

- Relocates midblock crossing to be located just north of Jean Street intersection

Tradeoff:

- Only appropriate if a sidewalk is constructed along the west side of University Drive



Speed Calming: Mid-Block Bulb-out (Ford Road to Stratford Avenue)

Existing



With Mid-Block Bulb-Out (Chicane)



Speed Calming: Mid-Block Bulb-out (Ford Road to Stratford Avenue)



Benefits:

- Adds greenery
- Narrows lane when parking is not present
- May help “protect” parked cars
- Introduce a S-shape travel path on a straight section of street that compels vehicles to slow down
- Reduces through traffic speed (by 3 to 9 mph)

Tradeoff:

- Removes approximately 1 to 2 parking spaces per raised island
- Presents a fixed object within the travel-way that may be struck by vehicles or snow plows



Speed Calming: Mid-Block Bulb-out (Ford Road to Stratford Avenue)

Existing



With Mid-Block Bulb-Out (Choker)



Speed Calming: Mid-Block Bulb-out (Ford Road to Stratford Avenue)



Benefits:

- Adds greenery
- Narrows lane when parking is not present
- Protects parking and defines a parking area
- Reduces through traffic speed (by 1 to 4 mph)

Tradeoff:

- Removes approximately 1 to 2 parking spaces per raised island
- Narrows travel lane for bicyclists
- Presents a fixed object within the travel-way that may be struck by vehicles or snow plows

Speed Calming: Community Signage

Examples:



Speed Calming: Community Signage



Benefits:

- Attractive addition to community
- Announces to motorists that they are entering a community where there is a significant change in the driving environment
- Reduces through traffic speed (by about 2 mph)

Tradeoff:

- Requires ongoing maintenance such as painting, renewing and watering the vegetation or possibly repairs



Speed Calming: On-Street Parking (Mason Street to University Drive)

Existing



With Striped Parking



Speed Calming: On-Street Parking (Ford Road to Wood Road)

Existing



With Striped Parking



Speed Calming: On-Street Parking



Benefits:

- Narrows lane widths even when parking is not present
- Non-intrusive; does not impose speed restriction on emergency or transit vehicles
- May help “protect” parked cars
- Quick implementation
- Reduce through traffic speed (by 0.5 mph)

Tradeoff:

- Maintenance and restriping requirements
- Ford Road to Wood Road - Removes the ability to park along the east side of the street (approximately 20 parking spaces removed)

Additional Pedestrian Enhancements: Construct Missing Link of Sidewalk (Wood Road and Stratford Avenue)

- Existing



- With Sidewalk



Additional Pedestrian Enhancements: Construct Missing Link of Sidewalk (Wood Road and Stratford Avenue)



Benefits:

- Completes sidewalk on west side of road
- Improves pedestrian mobility

Tradeoff

- Requires easements from residents
- Requires retaining wall for portions of construction



Additional Pedestrian Enhancements: Lighting Improvements

Existing



With Lighting Improvements



Additional Pedestrian Enhancements: Lighting Improvements



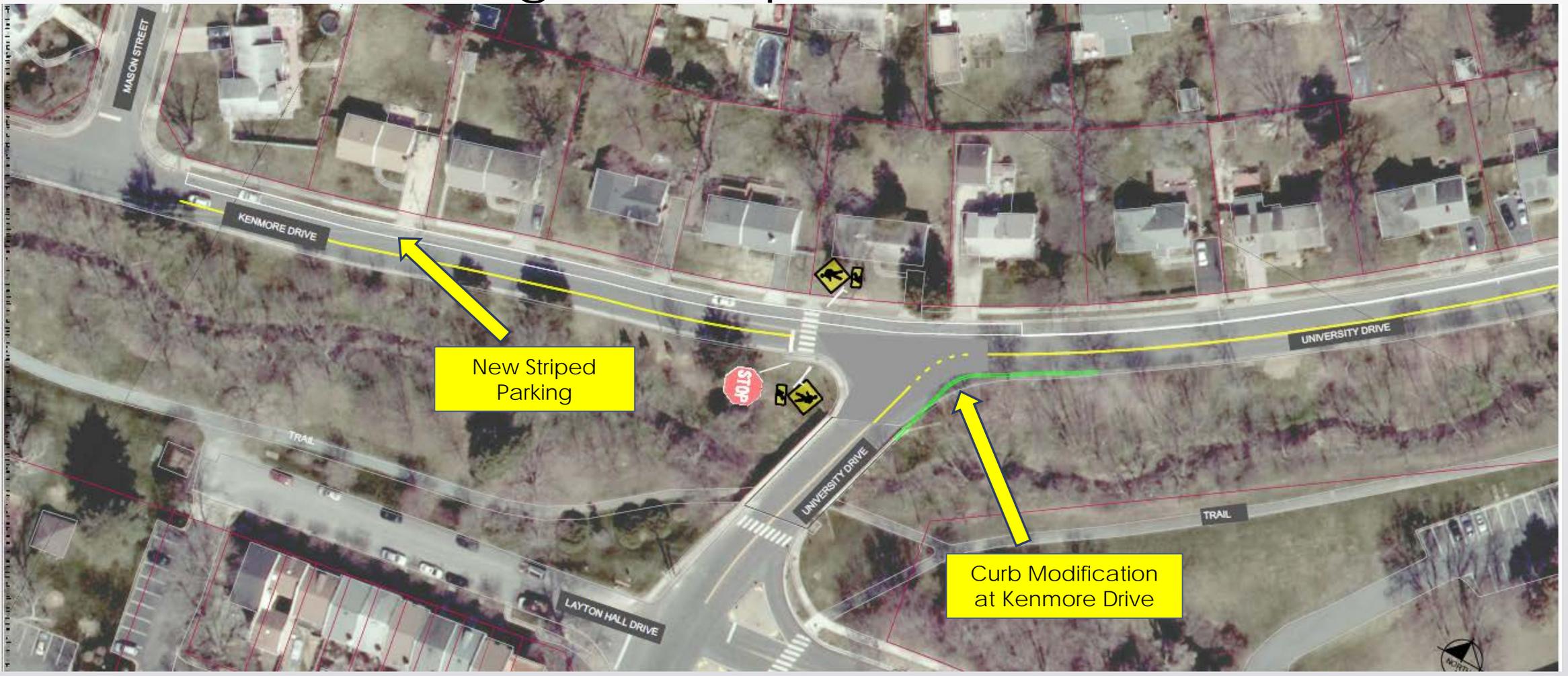
Options:

- Increase number of “Cobra head” lights to address locations of inadequate lighting
- Replace or supplement “Cobra head” lights with “Acorn” lights

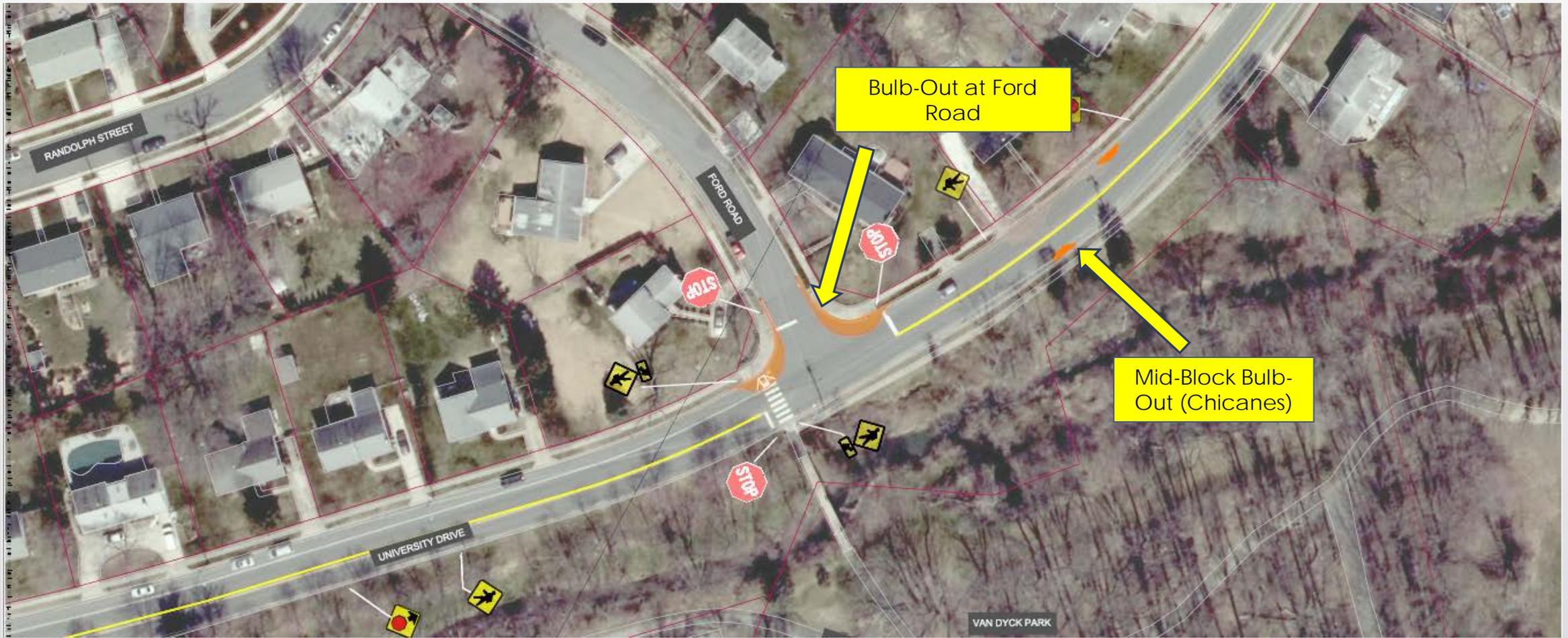
Benefits:

- Increases visibility
- Enhances safety
- Encourages walking with pedestrian-scale lighting

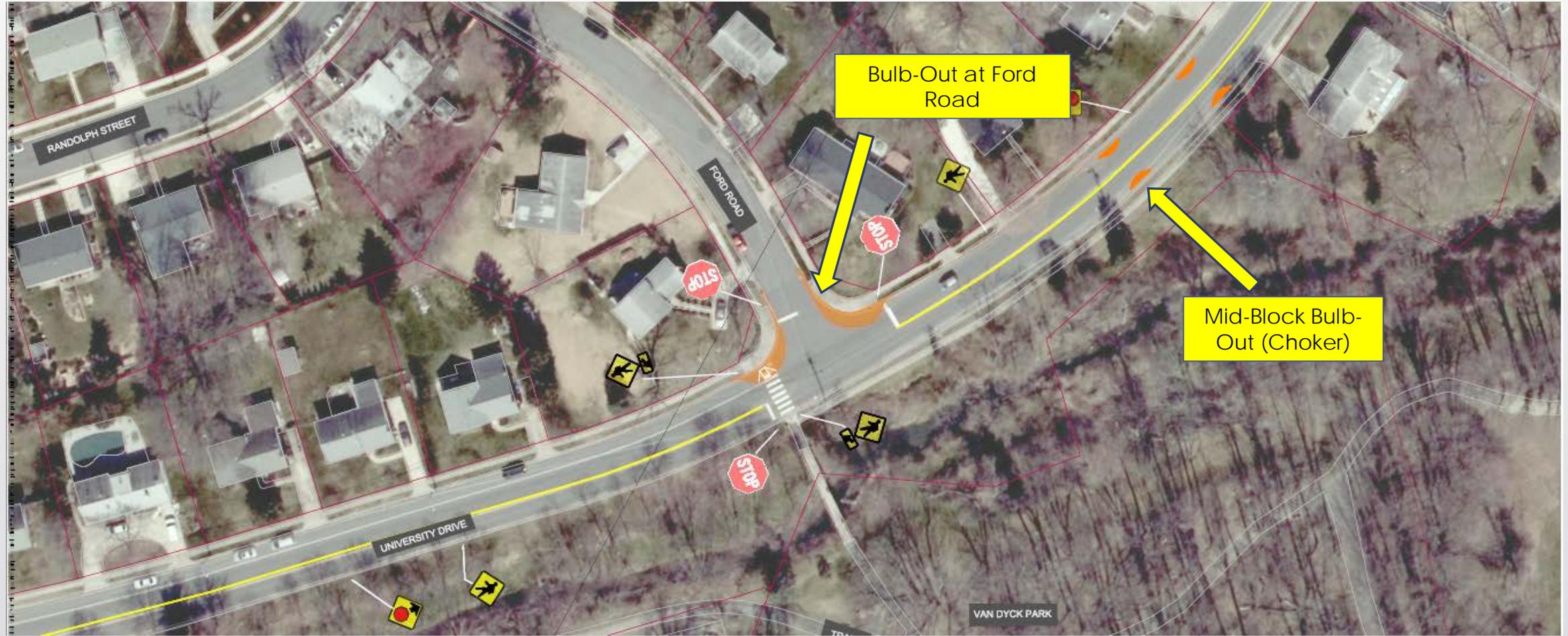
Traffic Calming Concepts



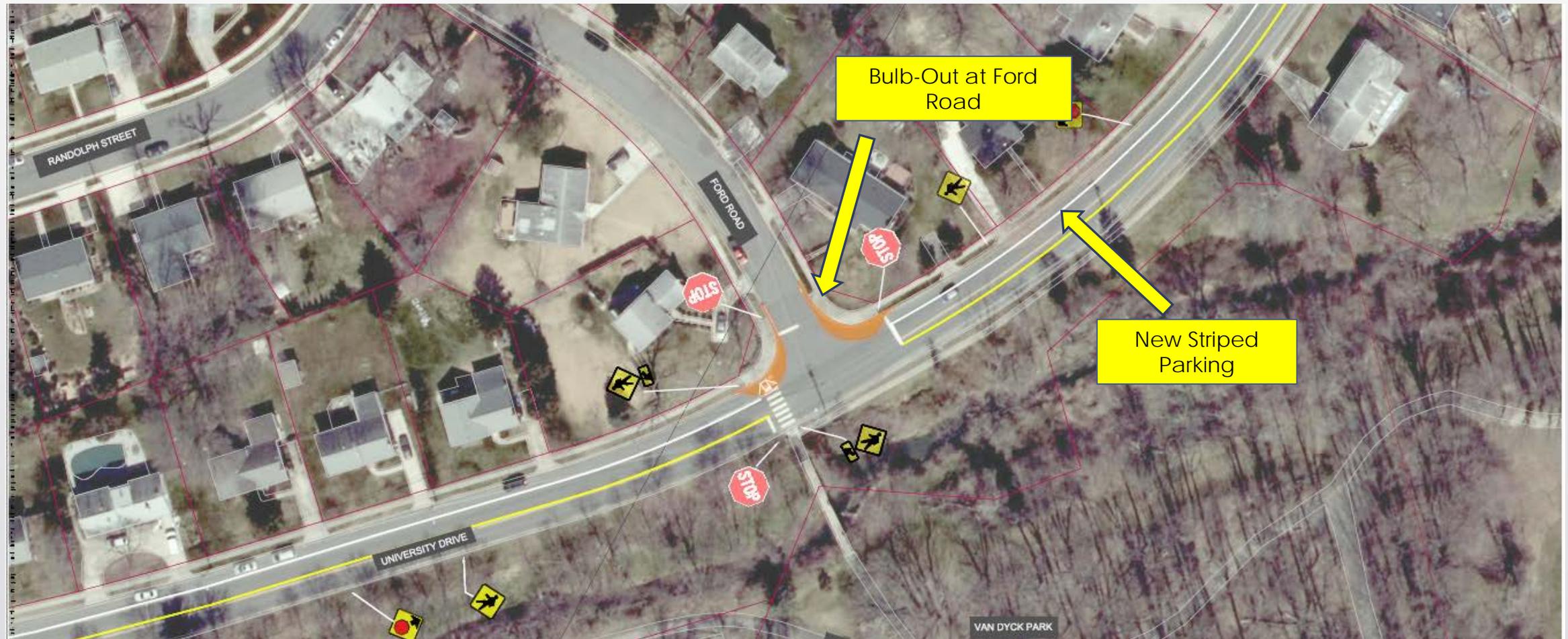
Traffic Calming Concepts



Traffic Calming Concepts



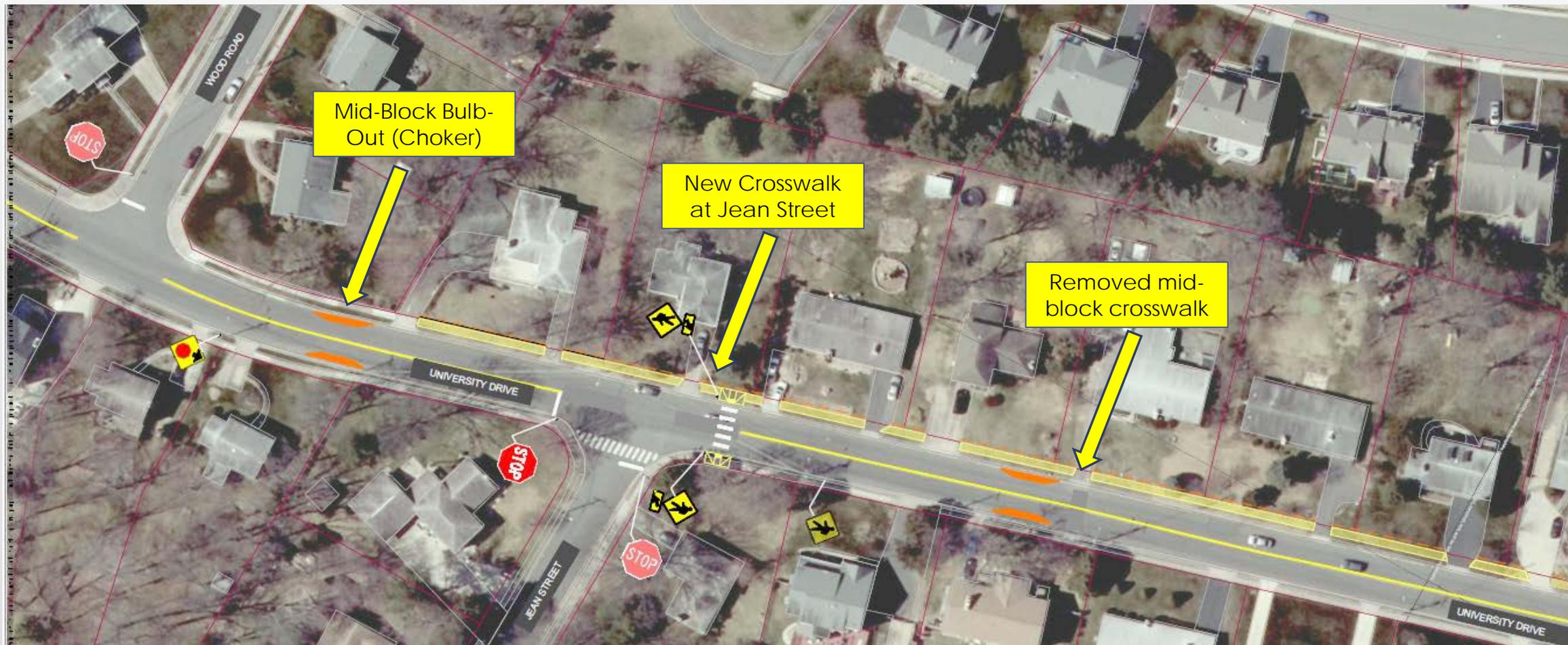
Traffic Calming Concepts



Traffic Calming Concepts



Traffic Calming Concepts



Traffic Calming Concepts



Traffic Calming Concepts



Public Input

- Talk to staff about your observations and ideas
- Fill out a ballot to tell us which improvements you think should be considered further
- Leave your email and stay connected with project updates

University Drive Traffic Calming



**Public Input Meeting
May 21, 2018**

Instructions
Please review the proposed traffic calming improvements shown on the front and back of this ballot. Use the green, yellow, and red dots to tell us which improvements you think should be considered further.
 High Priority Improvement
 Low Priority Improvement
 No interest or opposed to improvement

Address: _____
Name (Optional): _____

University Drive Traffic Calming

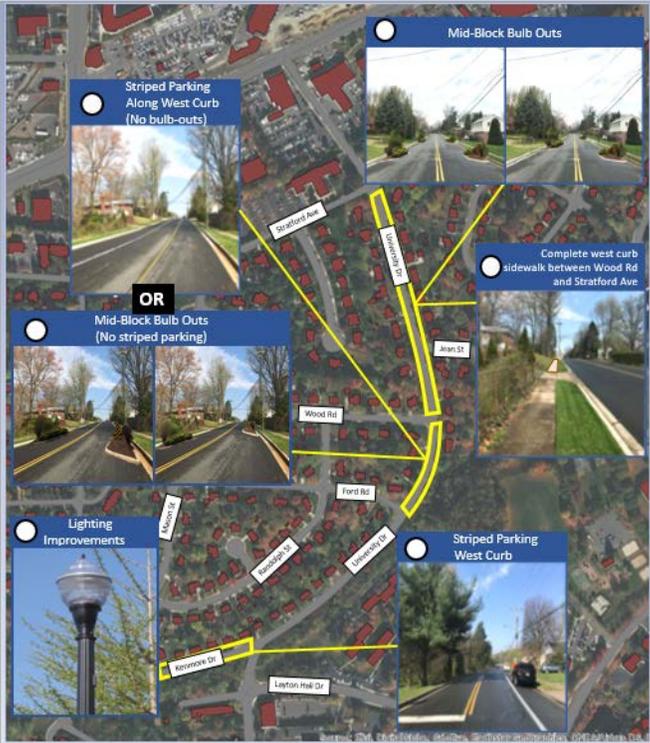


**Public Input Meeting
May 21, 2018**

Menu Of Proposed Traffic Calming Improvements (Intersections)



Menu Of Proposed Traffic Calming Improvements (Mid-block)



Additional Comments



Next Steps

- Staff will return to City Council with summary of public meeting and recommended next steps
- Staff will refine the traffic calming options based on community input



Questions?