



North Mason Street Permanent Project Study

Stakeholder Kickoff Meeting

Presented by

Zach Beard, AICP (CSPDC)

Jacob zumFelde, AICP (City of Harrisonburg)

Chuck Conran, PE (VHB)

December 4th, 2025

Agenda

- Opening and Introductions (MPO led)
- Study Context and Goals (City led)
- Study Effort and Schedule (VHB led)
- Early Study Items Technical Discussion (VHB led)
- Open Discussion (VHB facilitated)

Project Introductions – Stakeholder Group

› CSPDC

- Zach Beard
- Paula Melester
- Ann Cundy
- Garreth Bartholomew

› City of Harrisonburg

- Jakob ZumFelde
- Tom Hartman
- Timothy Mason
- James Polhamus
- Cheryl Spain
- Gerald Gatobu
- Thanh Dang

- Max Irwin

- Amy Snider

› VDOT

- Brad Reed
- Adam Campbell
- Don Komara
- Jeremy Mason
- Shane McCabe

› VHB

- Chuck Conran
- Wes Parker
- Kento Carson

Study Context and Goals

- Jakob to add/modify content
- Community Connectors grant
- Northeast Neighborhood Small Area Plan
- North Mason Street Complete Streets Leadership Academy and Demonstration Project
 - Process and overview of Demonstration Project
 - Community feedback (summary of 1500+ responses)
- Goals and Principles identified through these efforts for any permanent project on North Mason Street

Study Understanding

- Identify preferred typical section for North Mason Street between N Main Street and E Market Street
- Identify preferred intersection design concepts at five (5) intersections:
 - N Main Street
 - E Gay Street
 - E Rock Street
 - E Wolfe Street
 - E Elizabeth Street
- Build upon the successful Demonstration Project in Summer 2025
- Prepare for Round 7 Smart Scale application cycle in Spring/Summer 2026



Study Effort

1. Stakeholder Engagement
 - Stakeholder kickoff meeting → TODAY
 - Six monthly project coordination meetings, some of which will engage a smaller technical working group
2. Data Collection: the City will provide traffic data for the six analysis intersections, including:
 - Speed data
 - Peak hour volume counts
 - Pedestrian/bicycle counts
 - Base condition Synchro models
 - Known development projects within the vicinity

Study Effort

3. Existing Conditions Analysis

- Operations analysis to include three Measures of Effectiveness (MOEs) for both the weekday AM and PM peak hours
 - Average Vehicular Delay
 - Level of Service
 - 95th Percentile Queue Length

4. Future Baseline Conditions Analysis

- Determine historical traffic growth patterns – Pathways for Planning (VDOT)
- Known development projects incorporated into projected traffic growth
- Anticipated traffic pattern shift due to roadway reconfiguration
- Traffic forecasting memorandum
- Future baseline operations analysis with forecasted growth to the selected design year

Study Effort

5. Future Build Conditions Analysis

- Screen potential intersection concepts using VJuST
 - Capacity (V/C ratio)
 - Safety (Number of conflict points)
 - Pedestrian accommodations
- Stakeholder consensus on two alternatives per study intersection to advance to concept development (January monthly meeting)

6. Concept Development and Evaluation

- Operations analysis to include MOEs with forecasted growth in the design year
- Sketch development for:
 - Two alternatives at each study intersection (ten total)
 - Two draft typical section alternatives for N Mason Street corridor
 - Two typical section alternatives overlaid in plan view on the corridor
- Planning-level cost estimate for two typical section alternatives

Study Effort

7. Public Engagement

- In-person public meeting to solicit feedback on typical section and intersection alternative concepts → **Goal is late February for public meeting**

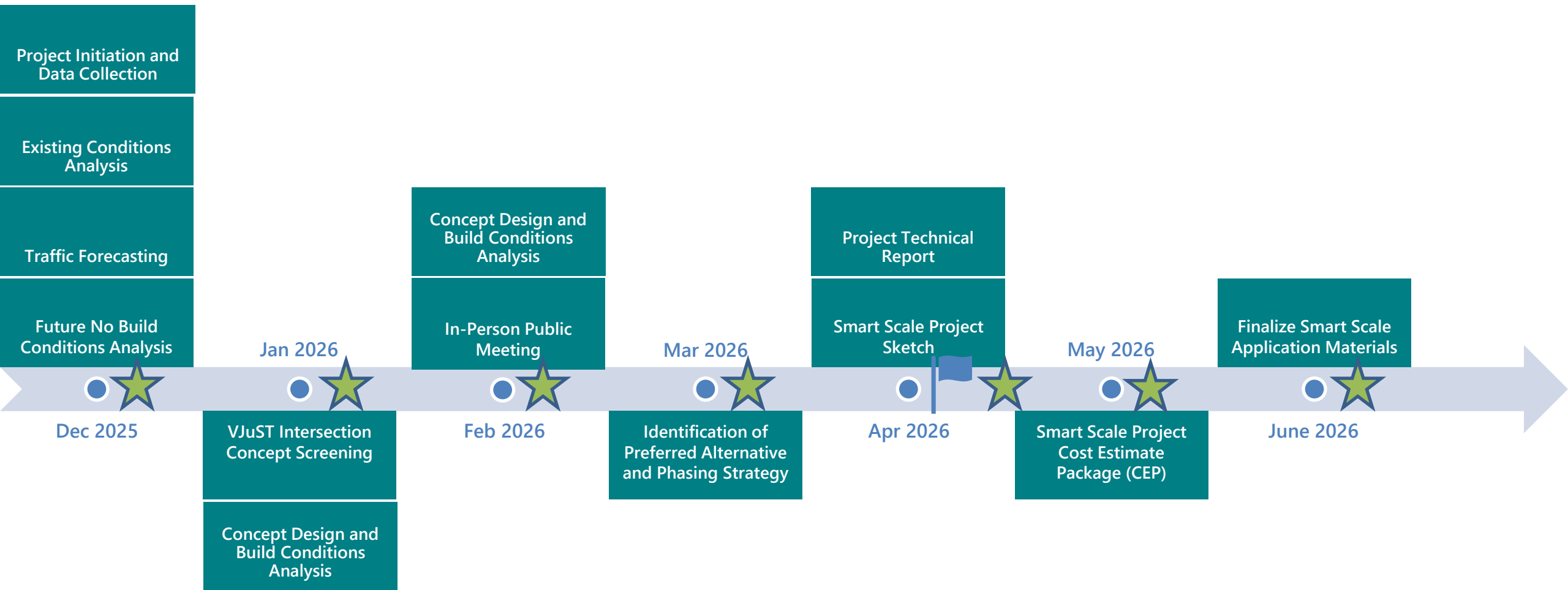
8. Identification of Preferred Alternative

- Technical analysis, stakeholder engagement, and public feedback inform selection of preferred alternative
- Evaluation of potential implementation phasing strategy(s)
- Technical report summarizing technical findings and the preferred alternative selection

9. Preparation of Smart Scale Application Materials

- Preferred typical section and intersection treatments combined into one refined Smart Scale caliber sketch
- GIS data layers (utilities, contours, parcel boundaries, etc.) will be added to the project sketch to identify and account for potential impacts
- Smart Scale caliber Cost Estimate Package (CEP)

Study Schedule



Anticipated Completion Date



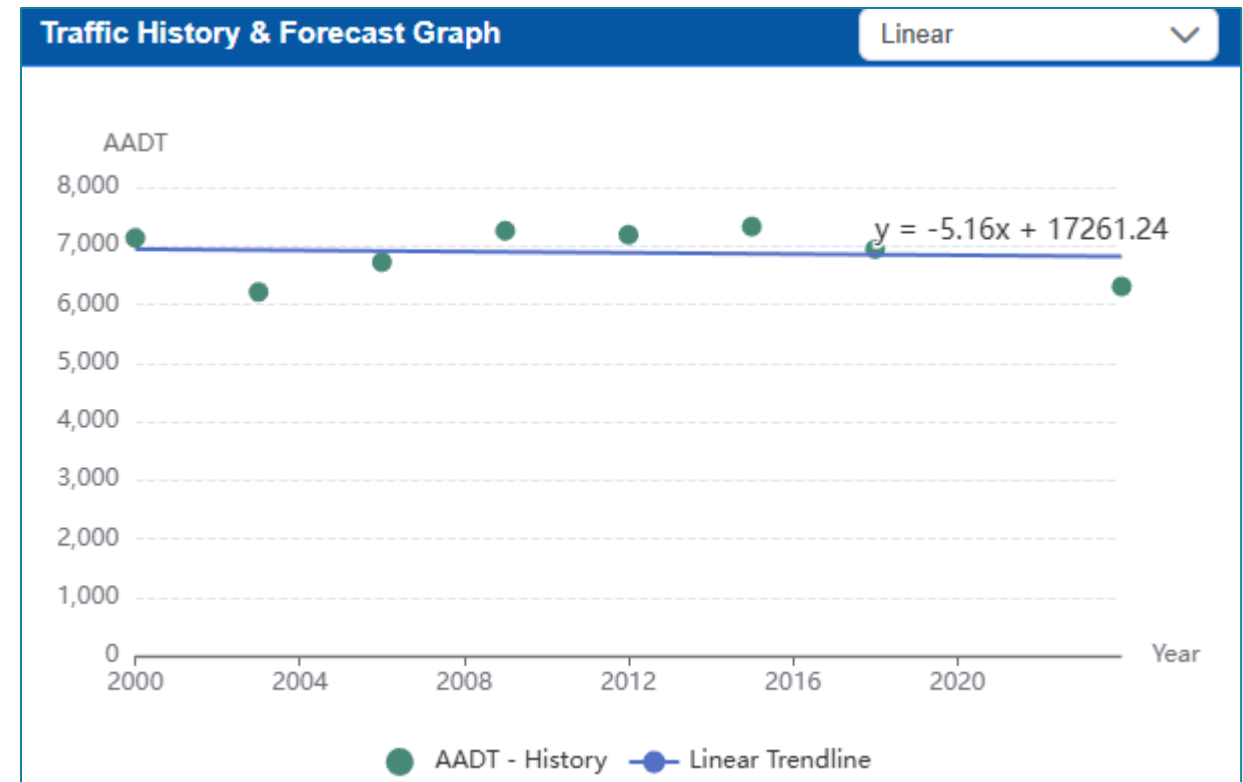
Anticipated Stakeholder / Working Group
Coordination Meeting



Round 7 Smart Scale Pre-Application Deadline (Apr 1, 2026)

Traffic Forecasting

- Pathways for Planning (VDOT)
 - 23 years (2000-2019, 2022-2024) of historical Average Annual Daily Traffic (AADT) data
 - 2020 and 2021 excluded per VDOT policy due to COVID-impacted traffic counts
 - Annual growth rate derived from all AADT linear regression calculations: **-0.09%**
 - Annual growth rate derived from field-counted AADT linear regression calculations: **-0.07%**
- Per VDOT policy, a minimum annual growth rate of **0.50%** is required for growth
- A 0.50% annual growth rate would likely cover any known development projects
- Proposed design year: 2050



N Mason Street (N Main Street to E Market Street) Counted Traffic History and Linear Regression Graph. Source: VDOT's Pathways for Planning Tool

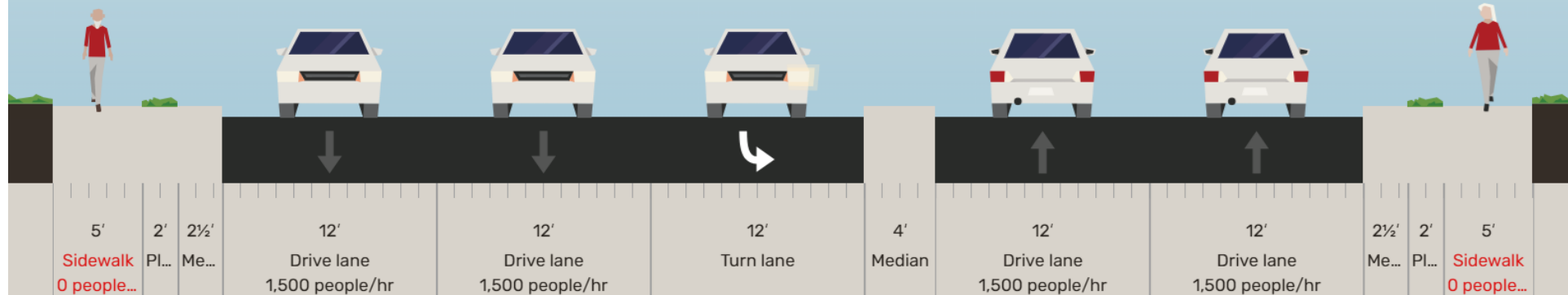
Traffic Forecasting

- Traffic patterns will change due to a roadway configuration project
- North Mason Demonstration Project (July – August 2025)
 - Vehicle traffic on N Mason Street **decreased by 15%** at Rock Street
 - Vehicle traffic on N Mason Street **decreased by 25%** at E Market Street
 - Truck traffic on N Mason Street decreased at a higher rate throughout the corridor
- Should we assume that the permanent N Mason Street project will have a similar reduction on traffic volumes?

Preliminary Typical Section Alternatives

- Two draft typical section alternatives for North Mason Street developed by the City for evaluation and refinement within this study
- Draft Alternative 1
 - Shift traffic to one side of the street (very likely the west side)
 - Construct shared use path
 - Have additional space for amenities (primarily between Wolfe St and Rock St)
- Draft Alternative 2
 - Widen median and plant additional trees, creating 'boulevard'
 - Create buffered bike lanes in each direction

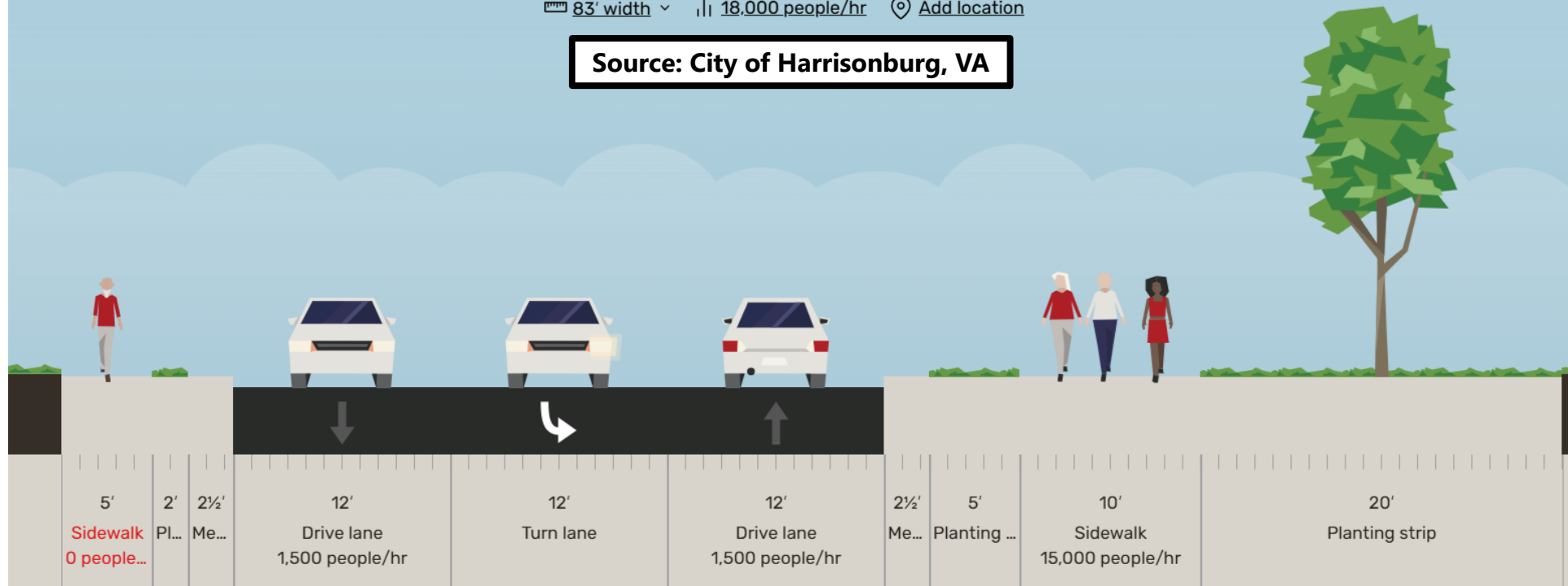
Existing North Mason Street (at Wolfe Street)



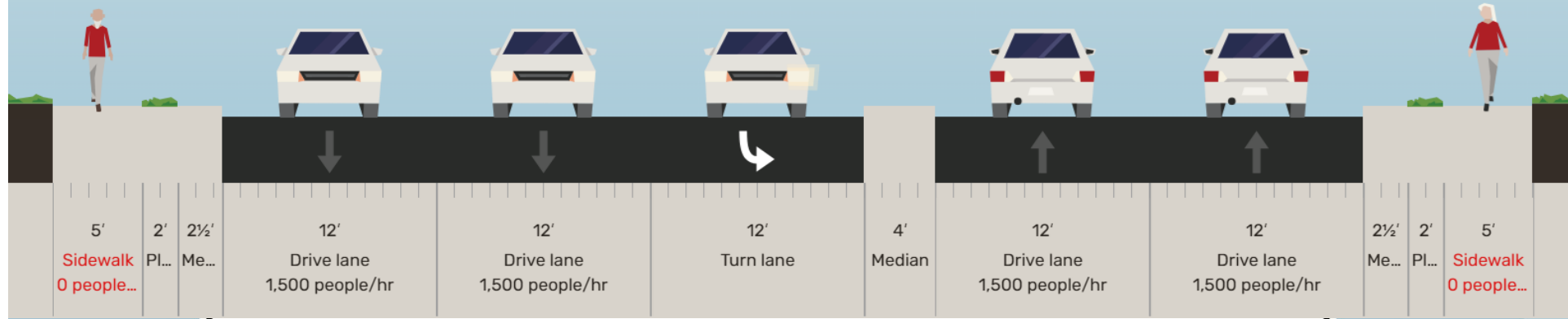
North Mason Alternative 1

83' width ~ 18,000 people/hr Add location

Source: City of Harrisonburg, VA



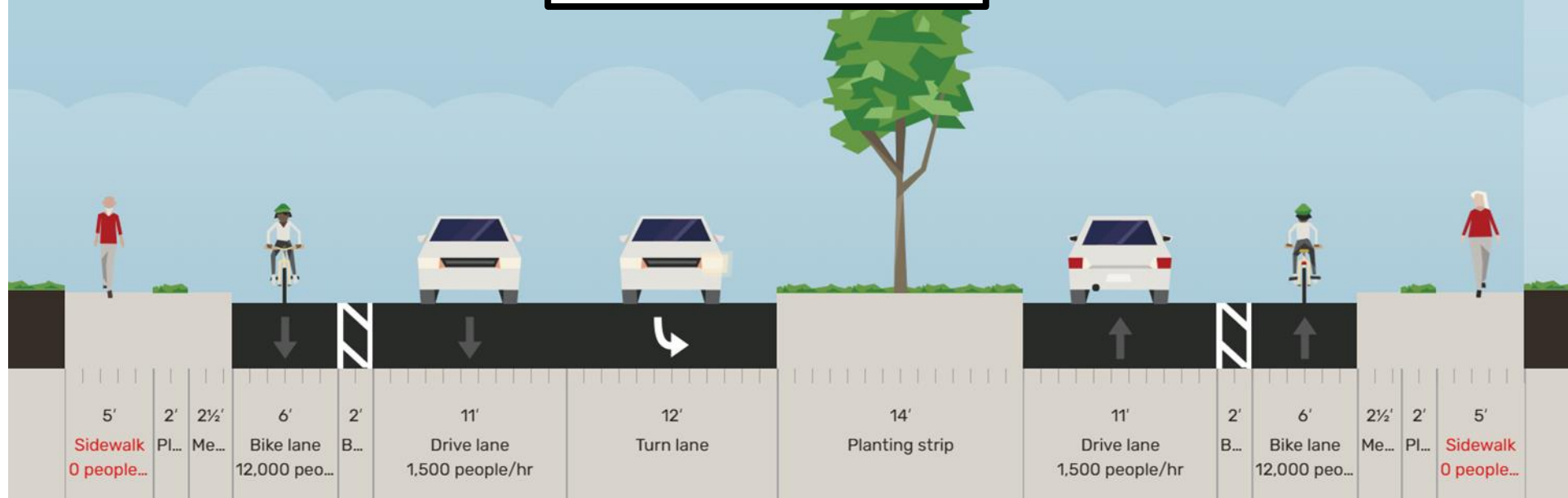
Existing North Mason Street (at Wolfe Street)



North Mason Street Alternative 2

83' width 27,000 people/hr Add location

Source: City of Harrisonburg, VA



The background of the slide is an abstract composition of overlapping, semi-transparent shapes in various shades of teal, blue, and green. These shapes, which include circles, polygons, and organic, leaf-like forms, are layered to create a sense of depth and movement. The colors transition from a darker teal on the left to a lighter, more vibrant green on the right.

Open Discussion



Thank you!

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