

Duke Street Traffic Mitigation

Phase II Pilot August 2022



Meeting Agenda

01.

Duke Street Roadmap

How we got here and where we are going

) 02.

Phase I Findings

What we learned in Phase I

03.

Phase II Discussion

Roadway changes and evaluation

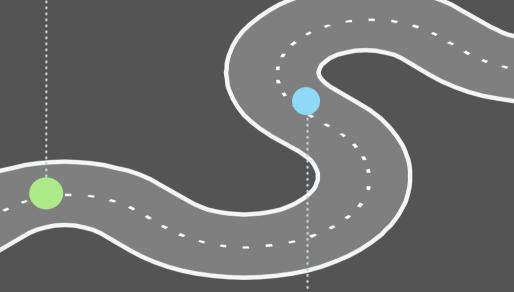
04.

Q&A and Next Steps

Timing and input

Central Alexandria Traffic Study

Recommendations to reduce cut-through traffic on local streets and advance capital projects



Pilot - Phase I

Change signal timing to shift cut-through traffic patterns onto arterial streets and off neighborhood streets

Pilot - Phase II

Reinstate signal timing from
Phase I Pilot and restrict access
to Telegraph Road from West
Taylor Run Parkway

Duke Street Transitway

- Full corridor redesign of Duke Street to provide high capacity tranist along the corridor
- Includes new transit stations, enhanced frequency, signal technology to move people along the corridor
- Could include upgrades to the streetscape, pedestrian and bicycle access depending on design

Duke & West Taylor Run Intersection & Access Ramp

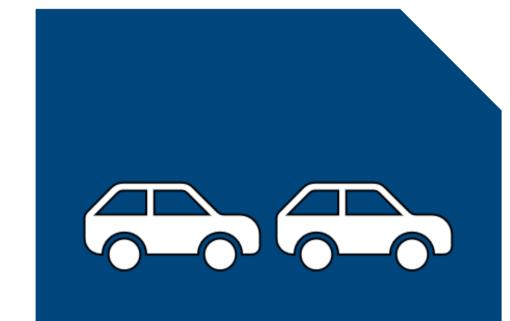
- Safety

 improvements at intersection
- Restrict access from WTR to Telegraph
- Construct new left turn access ramp to Telegraph from eastbound Duke Street

Roadmap for Duke Street

Traffic Mitigation Pilots

Project Goals



Reduce congestion on Duke Street



Reduce cut-through traffic on neighborhood streets



Improve the quality of life for residents

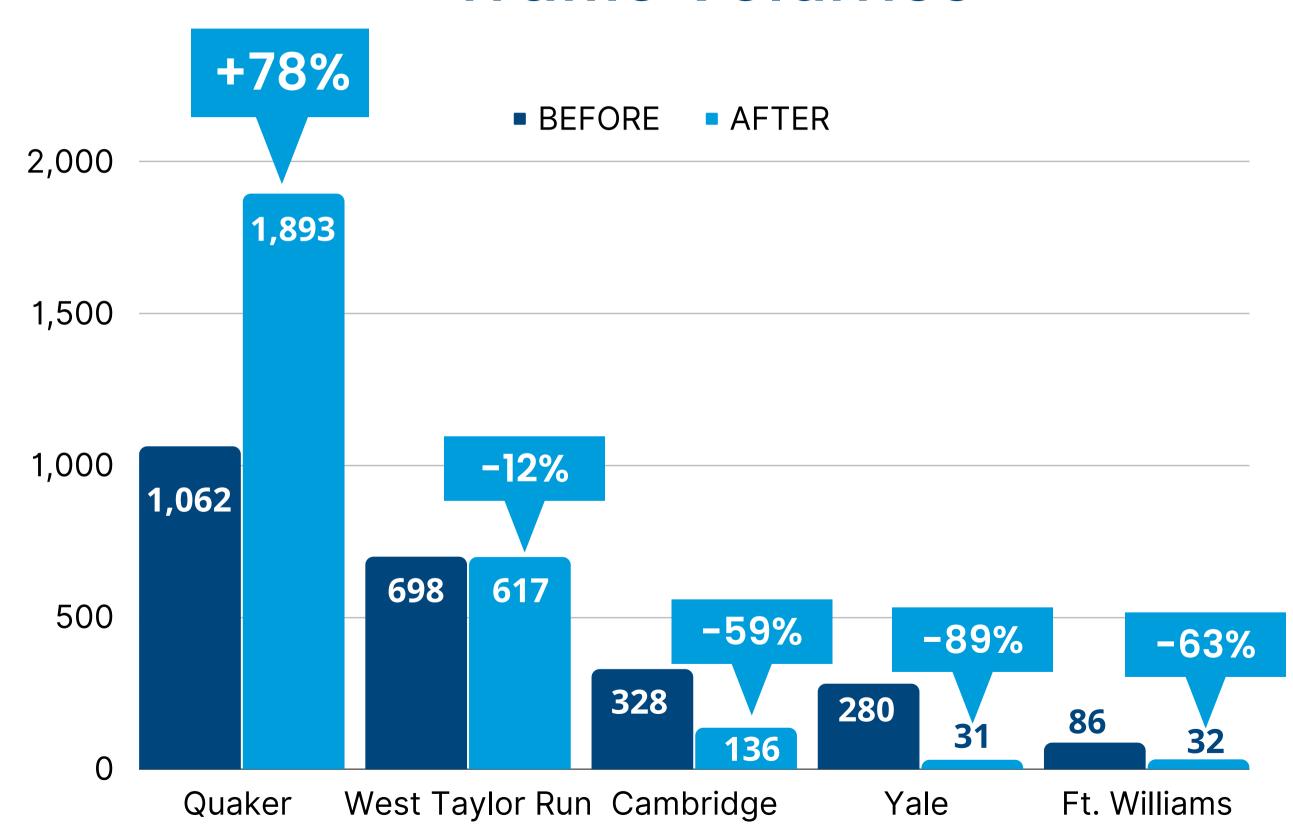
Phase I Pilot

Key Findings



- 41% of cut-through traffic shifted off local streets
- Cut-through traffic increased by 10% overall
- Travel times usingQuaker Lane were20% faster

Changes in Cut-Through Traffic Volumes

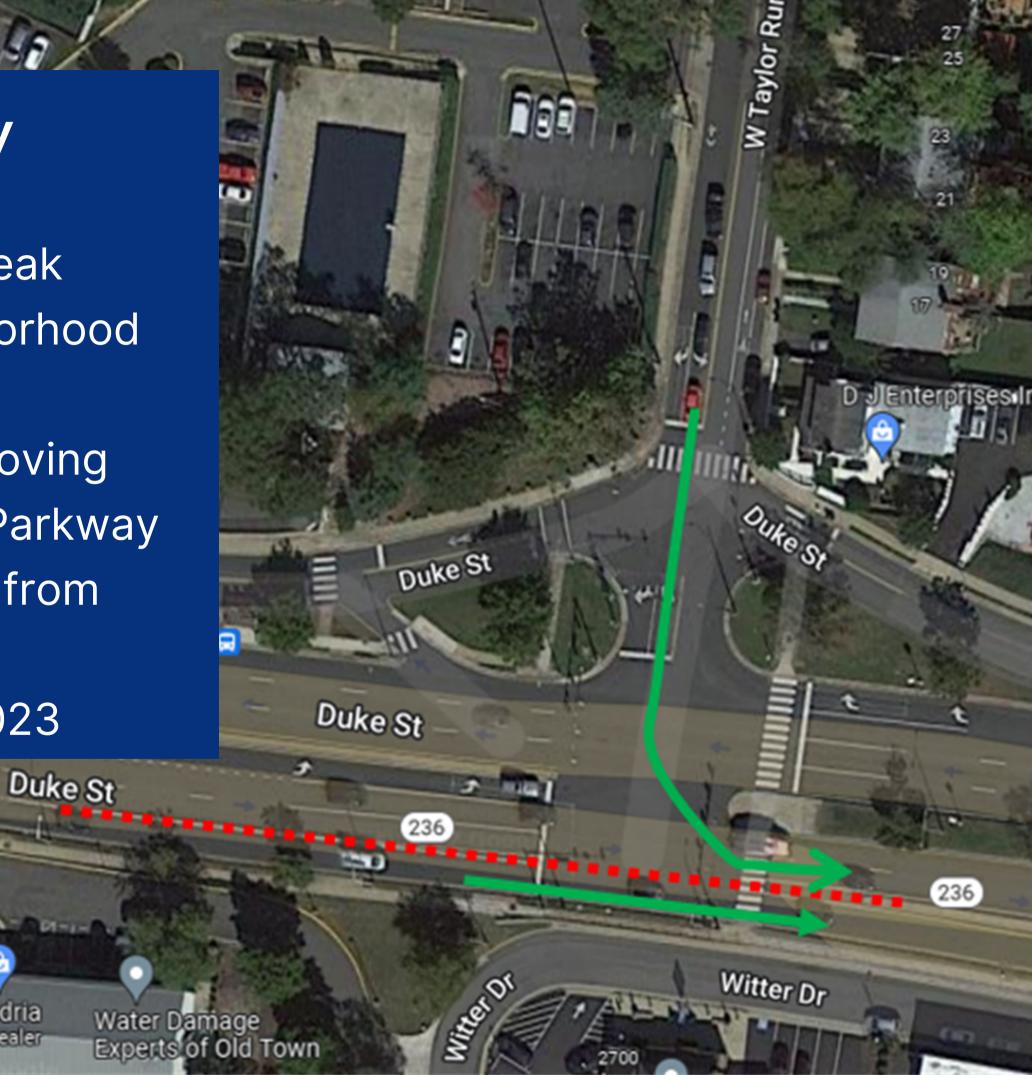


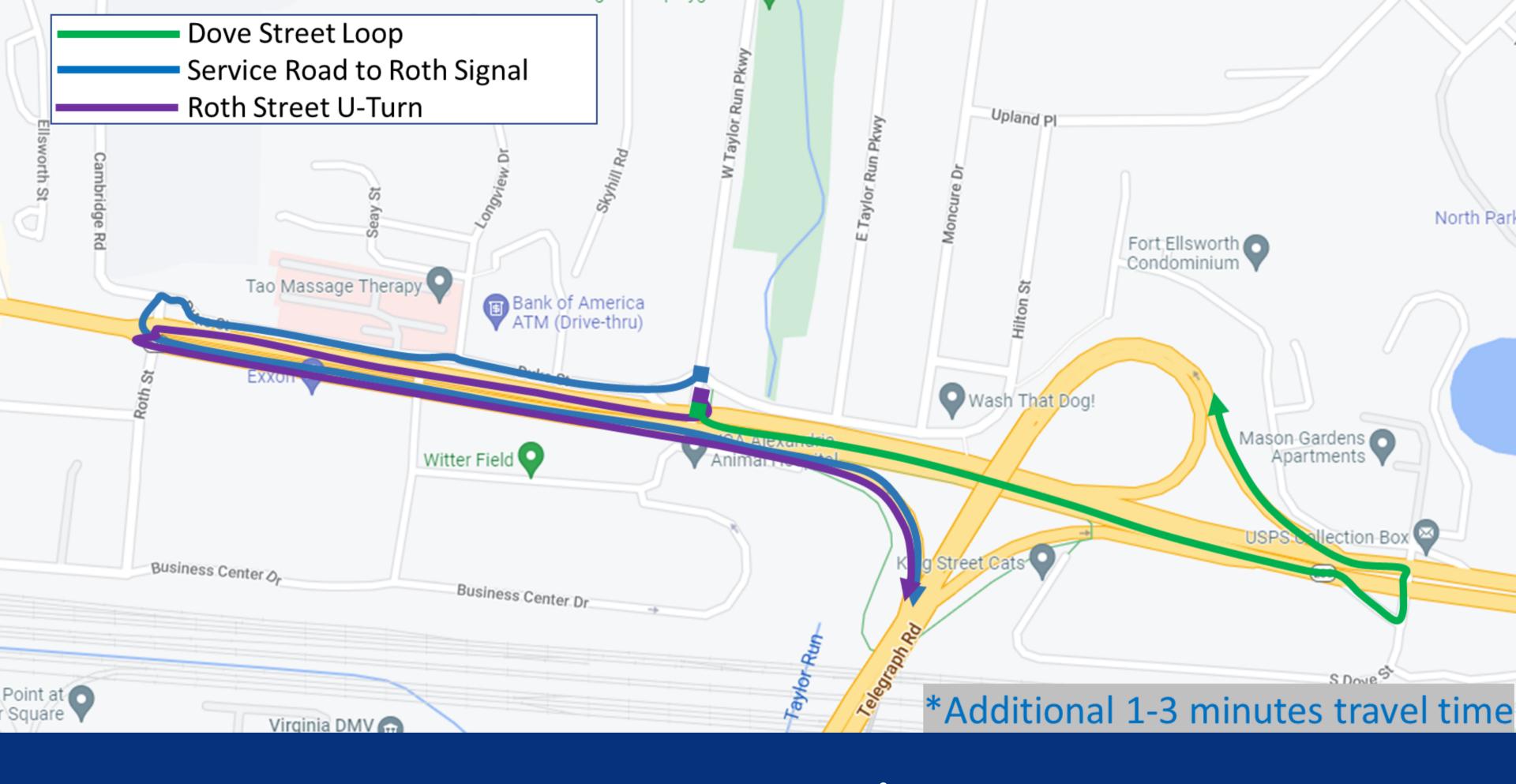


West Taylor Run Parkway

- Reinstate Phase I signal timing in PM Peak
 - Keep cut-through traffic off neighborhood streets
 - Keep Quaker Lane & Duke Street moving
- Restrict access from West Taylor Run Parkway directly onto the Telegraph Road ramp from eastbound Duke Street AT ALL TIMES
- Potential Timing: Sept 2022 March 2023

Traffic Mitigation Pilot - Phase II





West Taylor Run Parkway Access Options



Evaluation

Neighborhood Streets



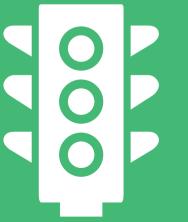
GOAL: Minimize impact to neighborhood streets by reducing cut-through traffic by 30% from BEFORE period

West Taylor Run



GOAL: Reduce cut-through traffic volumes on West Taylor Run Parkway by 20%

Duke Street Congestion



Improve travel times and reduce vehicles queues on Duke Street

Continual Engagement & Infromation Sharing



AUG

- CommunityFeedback
- Refine Plan
- Finalize Pilot



SEPT

- ImplementPilot Phase II
- Traffic & Parking Board for Public Hearing



FALL

Duke Street
 Transitway &
 West Taylor
 Run Project
 Input



SPRING

- Pilot Ends
- Evaluation
- PreferredDesigns forTransitway &Intersections

NEXT STEPS

Chinquapin Park ornton Is School Chinquapin Village Chapel Hill Key Dr Ivy Hill Cemetery Saylor of Janneys Ln Trinity Or Delta Clover College Park Duke St Hilton St Cameron Valley Duke St Colvin St Witter Recreation Business Center D

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