

Richland Acres Cut-Through Traffic Study

COMMUNITY MEETING

November 27, 2018



Agenda:

- Study Background
- VDOT's Cut-Through Traffic Policy Requirements
- Cut-Through Traffic Volumes
- Speed Analysis
- Remediation Options
- Next Steps



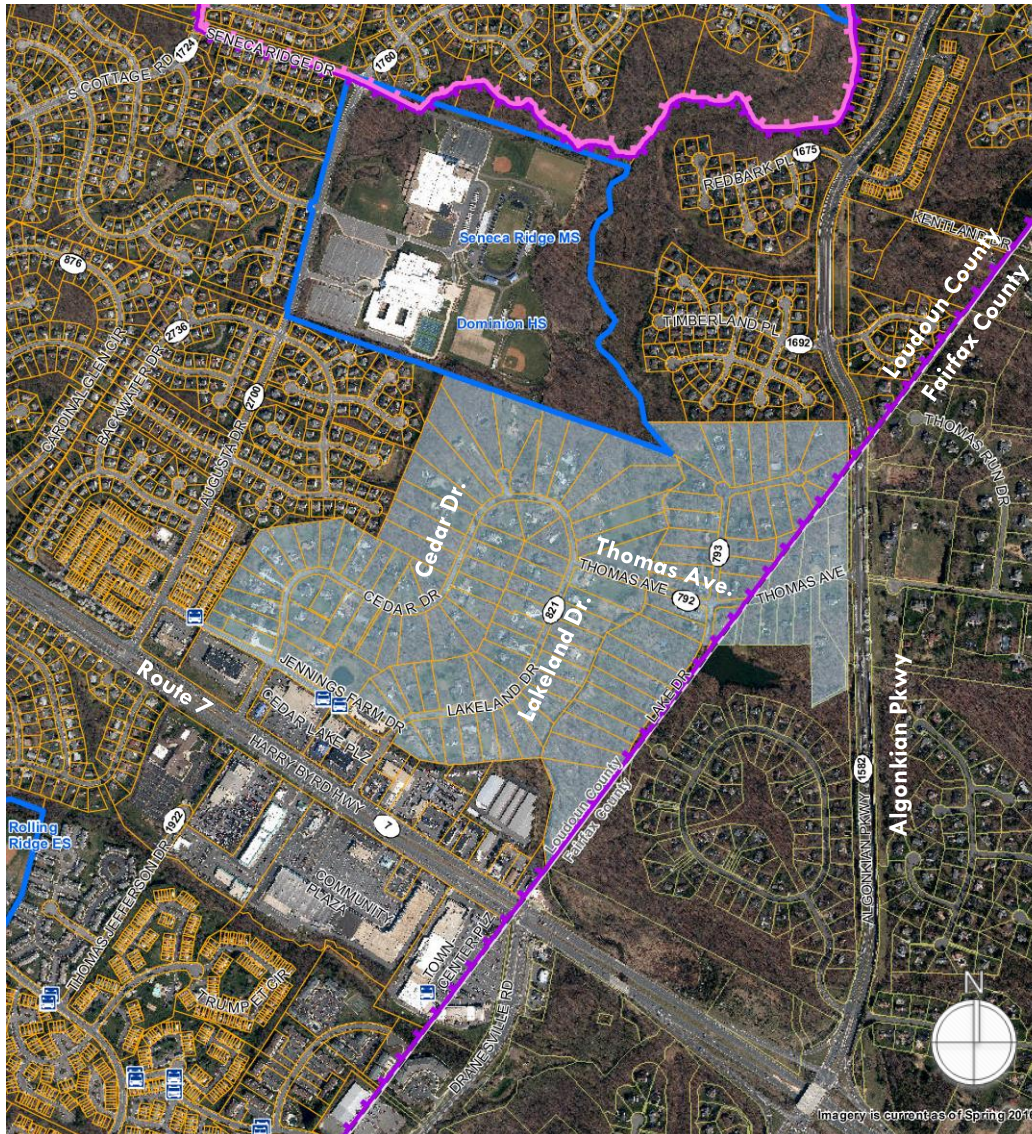
Study Background:








- Richland Acres Community is represented by the Richland-Kentland Citizens' Association.
- This is a well-established community north of Route 7 and west of Algonkian Parkway.
- Cedar Drive, Lakeland Drive, and Thomas Avenue
 - Classified as local residential roadways
 - Maintained by VDOT
 - Posted Speed Limit – 25 mph



Loudoun County VIRGINIA

WHERE TRADITION MEETS INNOVATION



-  Richland Acres – Kentland Farms
-  Local bus stop
-  Loudoun County facility
-  Loudoun County parcel
-  Fairfax County parcel
- 2011 Election Districts:**
 -  Algonkian
 -  Sterling



Study Background:

- Previous **traffic calming** measures installed by Loudoun County and Fairfax County to reduce vehicular speeds and discourage cut-through traffic through the Richland Acres Community:
 - Speed humps
 - Additional \$200 Speeding Fine signs
 - ALL WAY STOP signs



Thomas Avenue



Cedar Drive



Lakeland Drive



Study Background:

- FEB 2017 Supervisor Saines Office met with representatives from Loudoun County, Fairfax County, and VDOT to discuss the safety concerns raised by the community residents.
- JULY 2017 Supervisor Saines brought forward a Board Member Initiative directing County staff to identify available funds to complete a cut-through traffic study.
- JAN 2018 Board of Supervisors approved the funding source to complete the cut-through traffic study in Richland Acres community.



VDOT's Cut-Through Traffic Policy Requirements:

- **Functional Classification of the street(s):**
 - Local residential street
- **Identification of the primary use area:**
 - Streets accessed by using the local residential street(s)
- **Cut-through traffic:**
 - Minimum of 150 cut-through trips per hour in one direction, and
 - Greater than 40% per hour, single direction
- **Community Petition:**
 - 75% signatures indicating support
- **Alternative Routes:**
 - Identify alternative route for the cut-through traffic

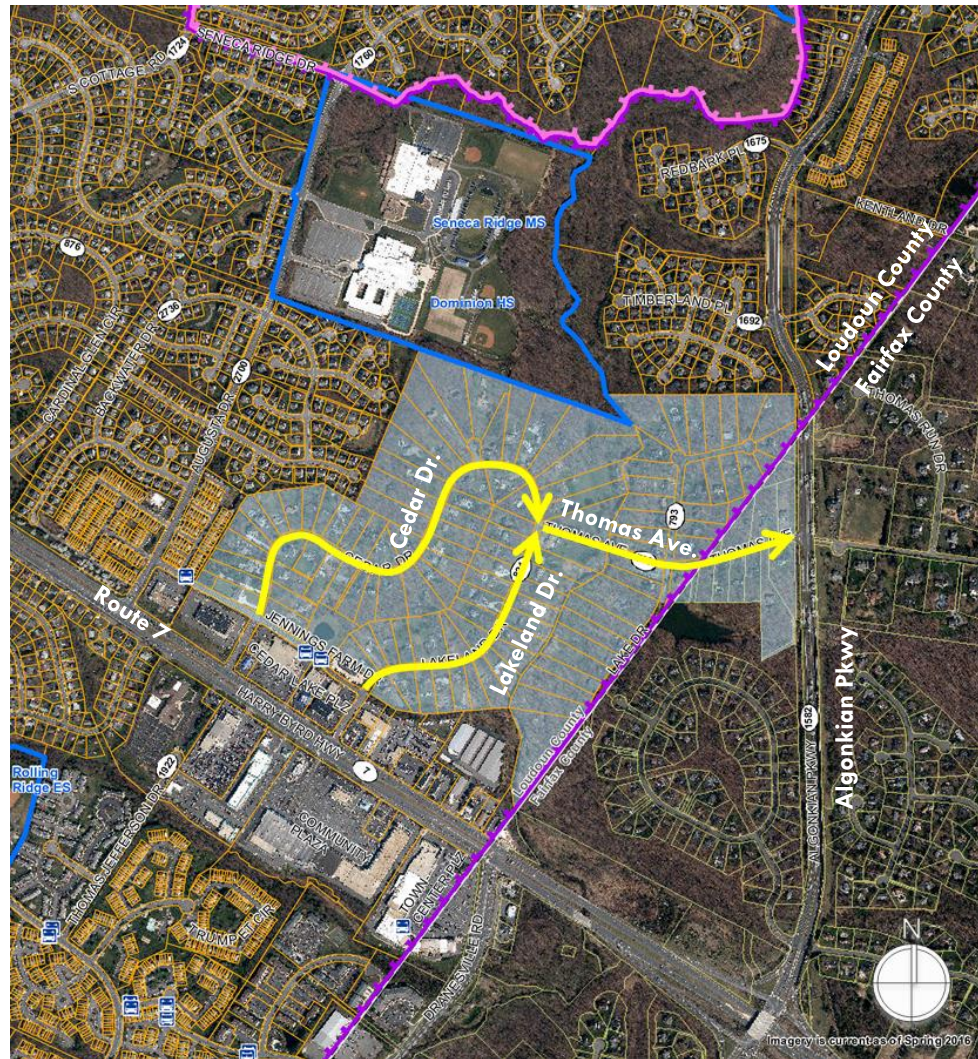


Northbound Cut-Through Route Volume:

Time	Northbound Lakeland Dr. and Cedar Dr.		
	Hourly Volumes	Cut Through	Cut Through %
7:00 AM	22	13	59%
8:00 AM	39	16	41%
9:00 AM	36	16	44%
10:00 AM	35	16	46%
11:00 AM	41	10	24%
12:00 PM	43	22	51%
1:00 PM	57	28	49%
2:00 PM	77	56	73%
3:00 PM	40	24	60%
4:00 PM	65	30	46%
5:00 PM	74	45	61%



Cut Through Volume > 150 VPH, and
Cut Through % > 40%/Hr.

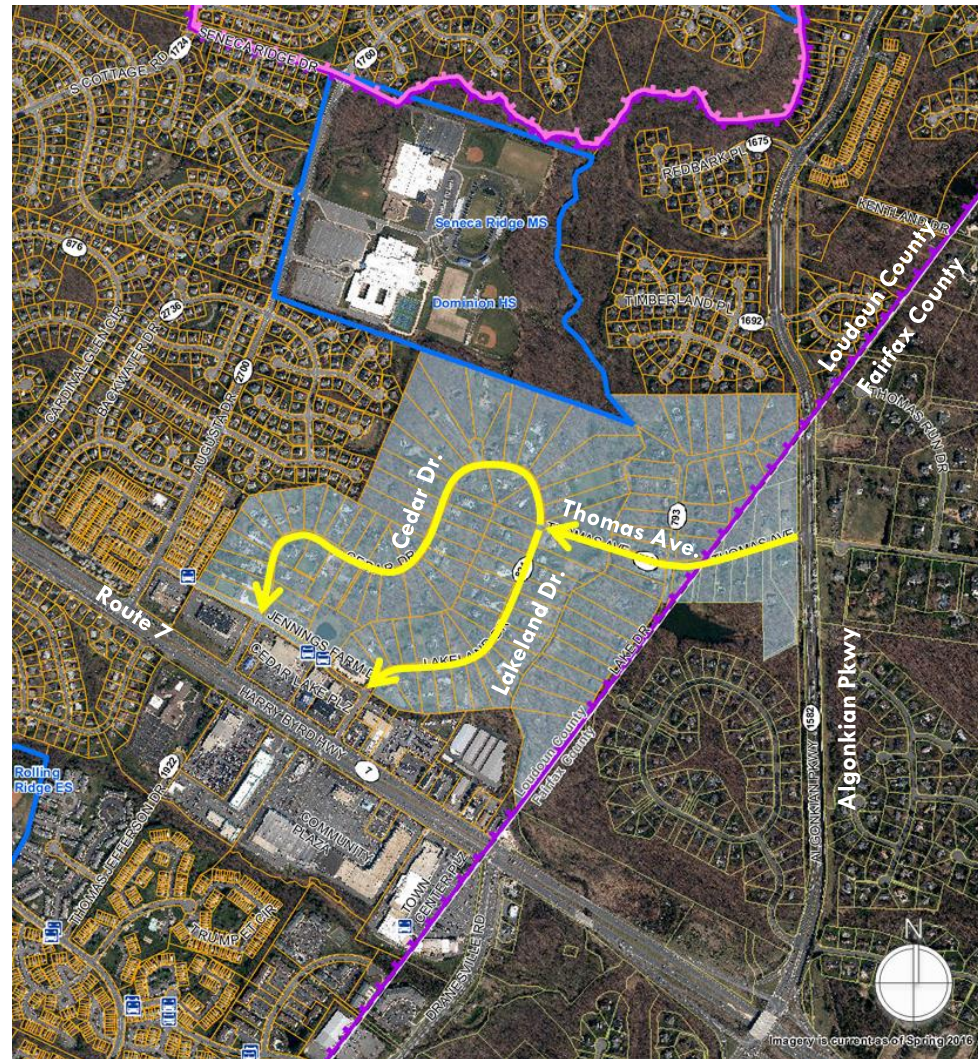


Southbound Cut-Through Route Volume:

Time	Southbound Lakeland Dr. and Cedar Dr.		
	Hourly Volumes	Cut Through	Cut Through %
7:00 AM	80	58	73%
8:00 AM	234	175	75%
9:00 AM	92	51	55%
10:00 AM	73	45	62%
11:00 AM	44	22	50%
12:00 PM	53	29	55%
1:00 PM	56	31	55%
2:00 PM	71	53	75%
3:00 PM	100	64	64%
4:00 PM	187	135	72%
5:00 PM	243	178	73%



Cut Through Volume > 150 VPH, and
Cut Through % > 40%/Hr.



Speed Analysis:

Roadway	Posted Speed (MPH)	85 th Percentile Speed (MPH)
Lakeland Dr.	25	43
Cedar Dr.	25	42

**Before
(2013)**

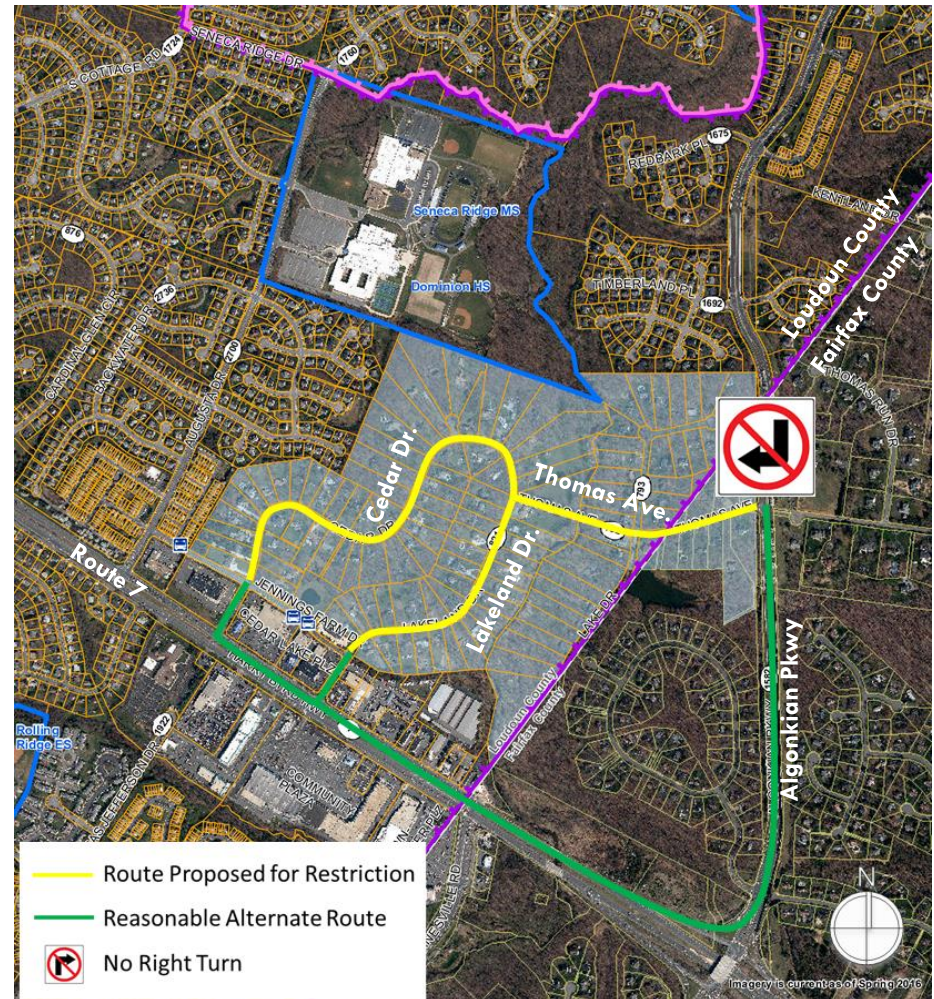
**After
(2018)**

Roadway	Posted Speed (MPH)	85 th Percentile Speed (MPH)
Lakeland Dr.	25	33
Cedar Dr.	25	30



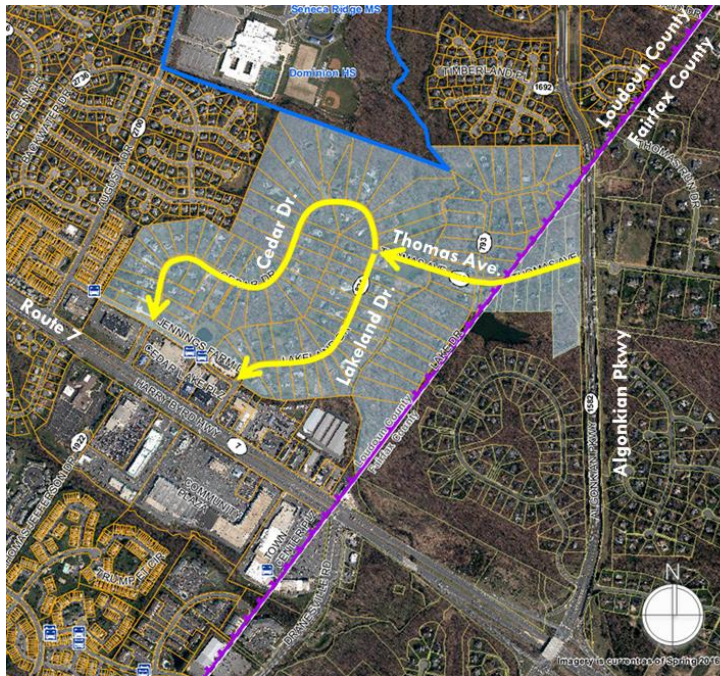
Remediation Options: Fairfax County Cut-Through Traffic Initiative:

- AM Turn Restrictions
- Thomas Avenue Cut-through Traffic Ballot Results:
 - “YES” (93% of ballots received)
- VDOT and Fairfax County Public Hearing - January 16, 2019



Remediation Options:

Recommendation To Consider PM Turn Restrictions



Cut Through Volume > 150 VPH, and
Cut Through % > 40%/Hr.

Hourly Summary for Cut-through Traffic

Time	Southbound Lakeland Dr. and Cedar Dr.		
	Hourly Volumes	Cut Through	Cut Through %
7:00 AM	80	58	73%
8:00 AM	234	175	75%
9:00 AM	92	51	55%
10:00 AM	73	45	62%
11:00 AM	44	22	50%
12:00 PM	53	29	55%
1:00 PM	56	31	55%
2:00 PM	71	53	75%
3:00 PM	100	64	64%
4:00 PM	187	135	72%
5:00 PM	243	178	73%

Next Steps:

Loudoun County recommends that Fairfax County and VDOT identify mitigation measures to address the cut-through traffic problem comprehensively in the Richland Acres community.



Additional Questions?

- Following the meeting, please provide any additional written questions or feedback directly to:
 - Supervisor Saines
 - Staff Aide: Omar Masood (Omar.Masood@loudoun.gov)



Route 7 Westbound over Sugarland Run

Bridge rehabilitation/widening in Fairfax County

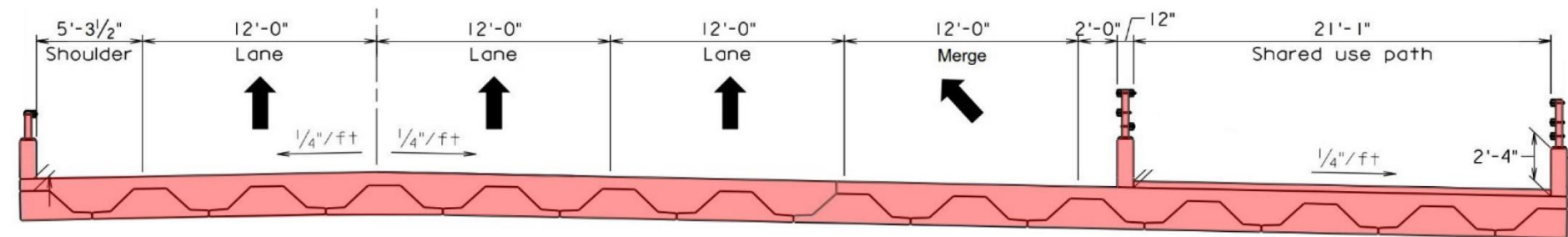
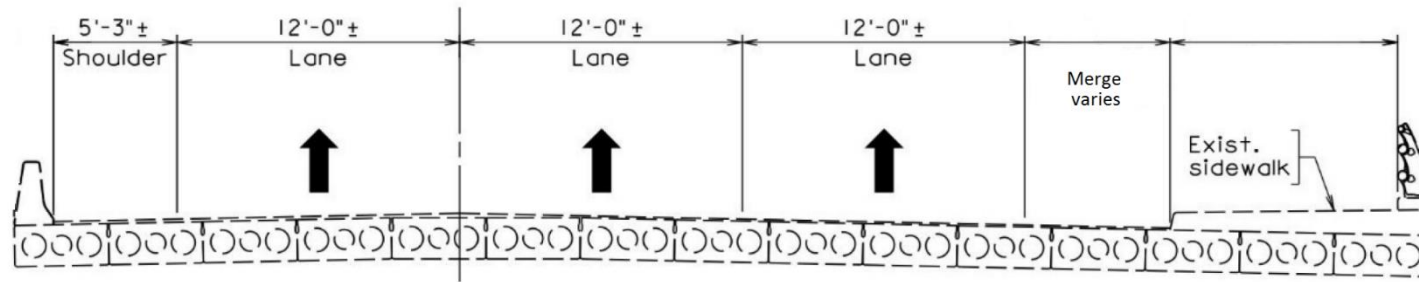


Project Location & Limits



Proposed Bridge Improvement

Existing Lane Configuration



Proposed Lane Configuration



Algonkian Pkwy Merging Lane Extension



Anticipated Schedule

Currently	Design Phase
Summer 2019	Begin Right of Way Acquisition
Winter 2019	Begin Utility Relocation
Winter 2020	Advertisement for Construction
Summer 2021	Begin Construction

VDOT Staff Contact Information:

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