

# Operational Analysis of Dulles Toll Road Ramps to Tysons



# Agenda

- Review of Progress
- Preferred Options
- Public and Stakeholder Outreach Schedule
- Next Steps

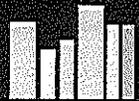
# Review of Progress

- Study Kickoff May 24, 2011
- Data Gathering & Analysis June - August 2011
- Alternatives Workshop September 23, 2011
- Monthly Progress Meetings Ongoing  
*(Included representatives from FCDOT, VDOT & MWAA)*
- Selection of Preferred Options March 21, 2012

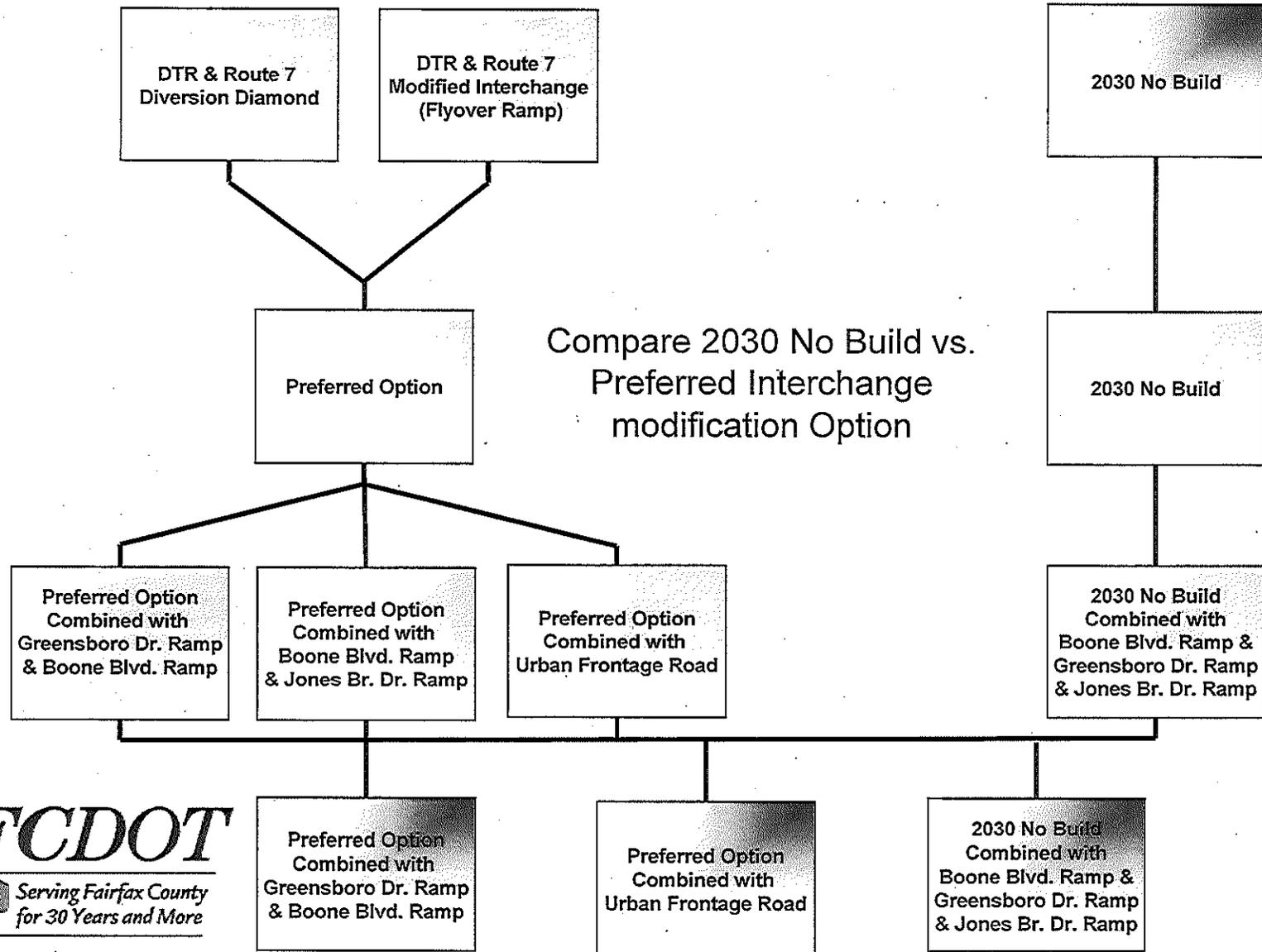


# Preferred Options

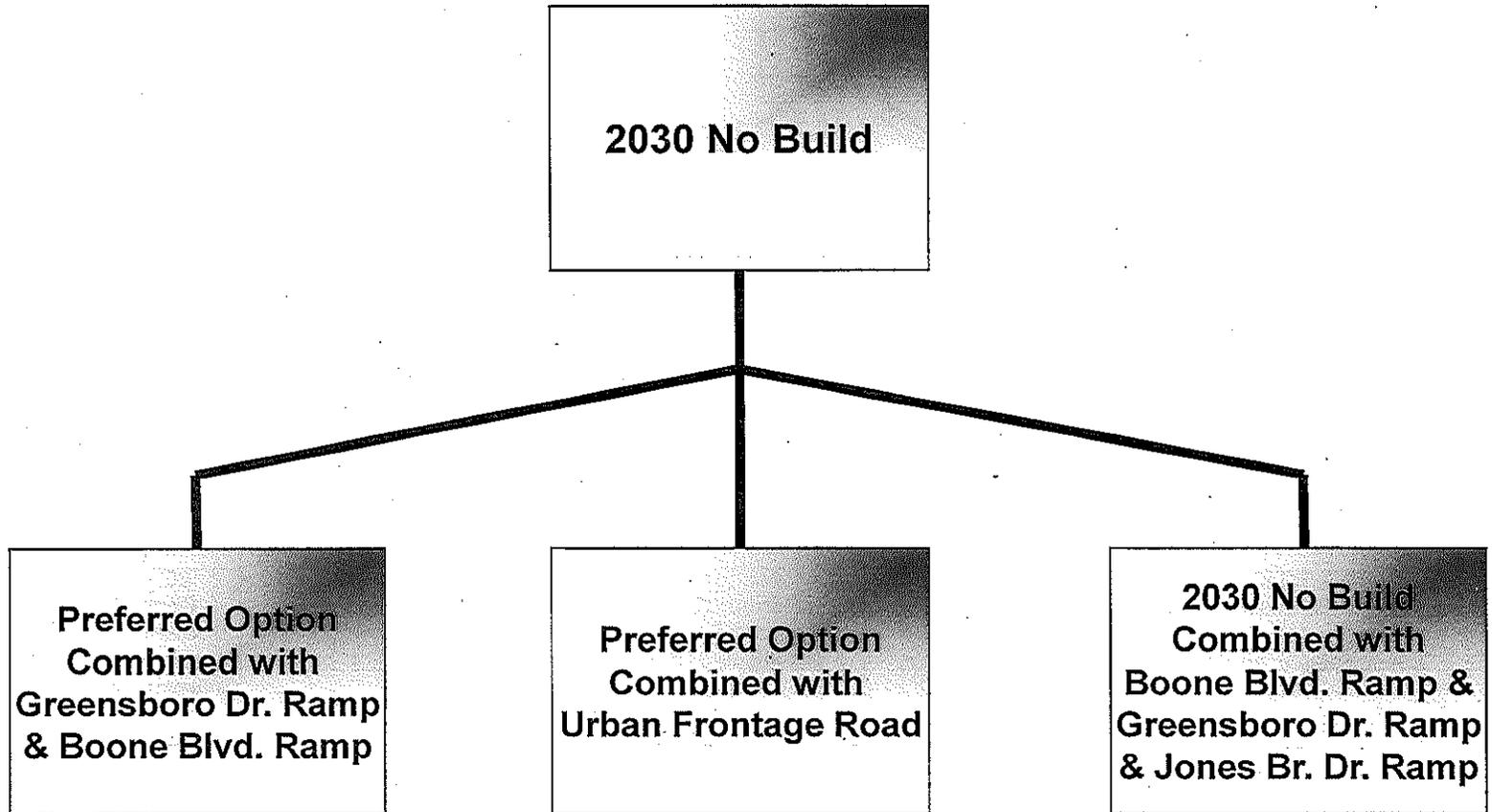
- Developed nine scenarios including providing upgrades to existing Route 7 and Spring Hill Road Interchanges
- Improvements to existing Route 7 and Spring Hill Road Interchanges were not cost effective based on the minimal capacity added
- Compared three preferred alternatives against the “No Build” Alternative
- Measured the Network Performance of each preferred option and compared traffic operations



# Preferred Options



# Preferred Options

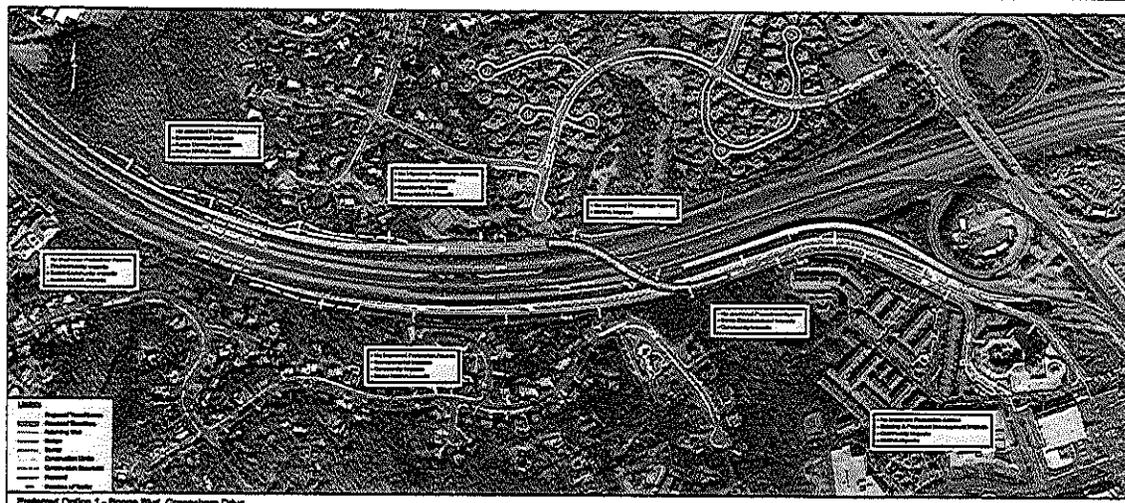




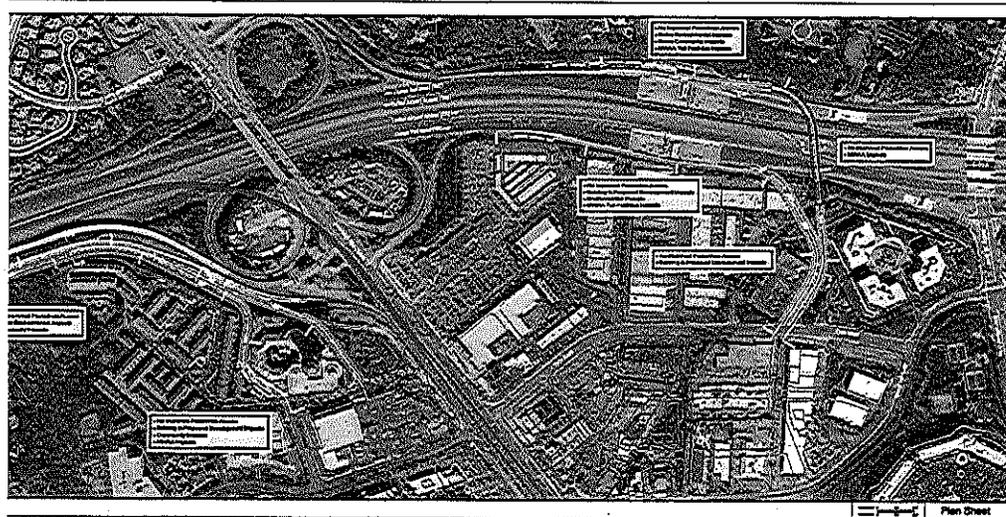
Tysons

# Preferred Options

Preferred Option 1 – Boone Boulevard, Greensboro Drive



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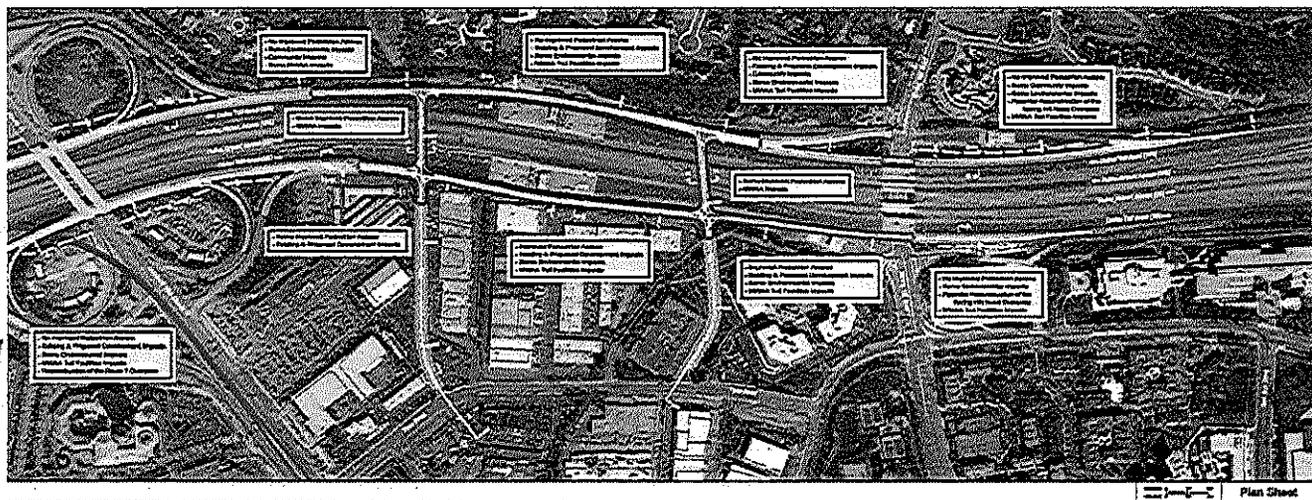
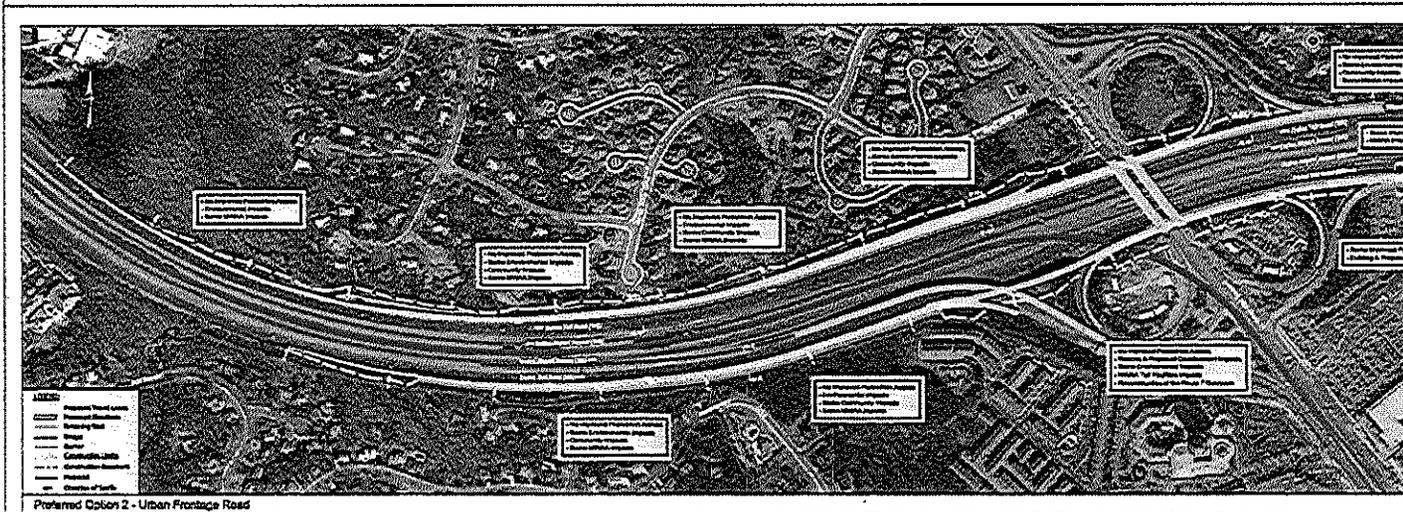


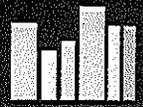


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# Preferred Options

## Preferred Option 2 – Urban Frontage Road

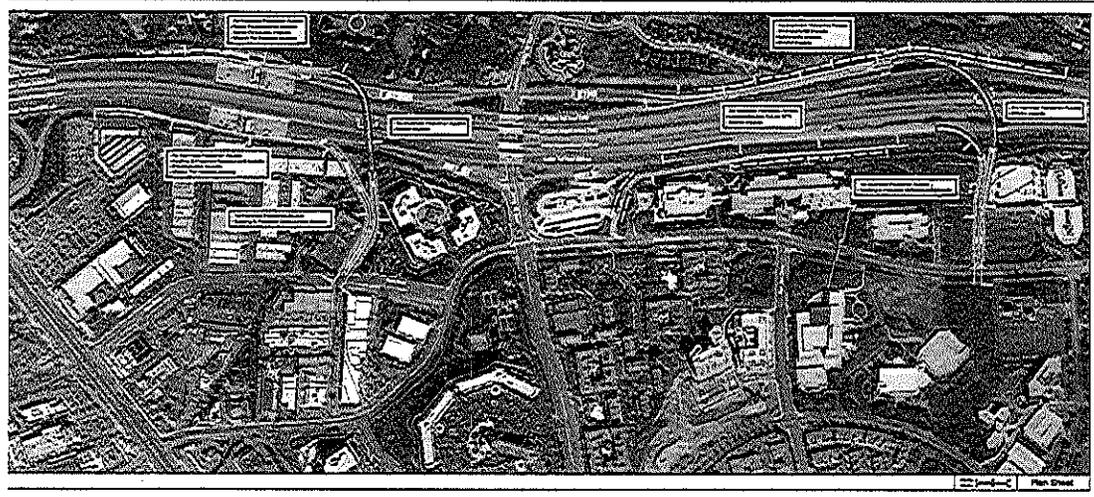
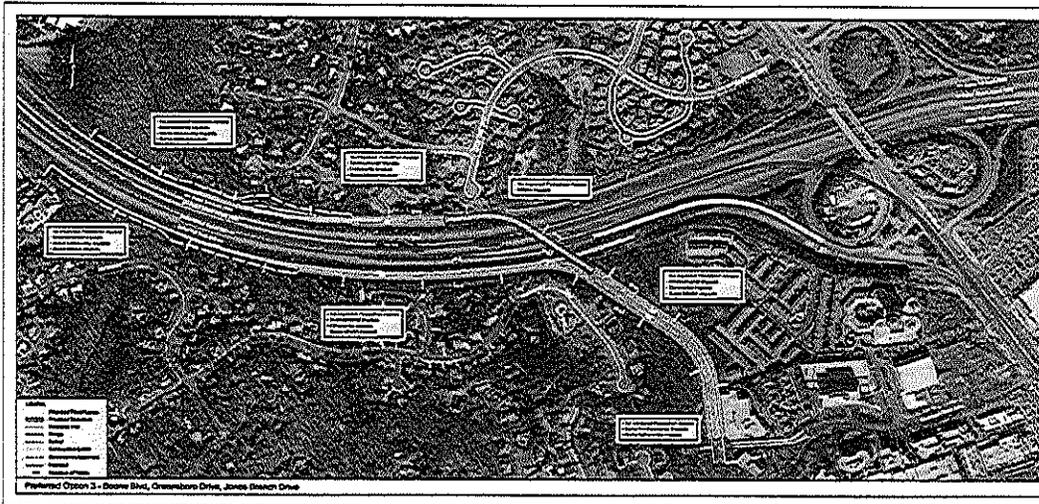




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# Preferred Options

Preferred Option 3 – Boone Boulevard, Greensboro Drive, Jones Branch



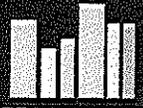
# Network Performance Comparison

AM

Measure	Unit	No Build	Preferred	Preferred	Preferred
			Option 1	Option 2	Option 3
Average delay time per vehicle	Seconds	329	370	355	255
Average number of stops per vehicles	Number of Stops	9.0	11.8	12.0	7.6
Average speed	MPH	13.0	14.4	13.9	16.1
Total delay time	Hours	2204	2655	2236	1848
Total stopped delay	Hours	713	1151	871	618
Total travel time	Hours	3061	3713	3122	2801
% Merges with LOS E or F	Percentage	0%	0%	0%	0%
% Diverges with LOS E or F	Percentage	75%	60%	50%	43%

PM

Measure	Unit	No Build	Preferred	Preferred	Preferred
			Option 1	Option 2	Option 3
Average delay time per vehicle	Seconds	401	367	272	432
Average number of stops per vehicles	Number of Stops	9.7	7.7	6.2	9.4
Average speed	MPH	12.3	13.6	17.5	11.1
Total delay time	Hours	3175	3024	1967	3432
Total stopped delay	Hours	1590	1808	1029	1919
Total travel time	Hours	4306	4177	2983	4491
% Merges with LOS E or F	Percentage	50%	50%	25%	14%
% Diverges with LOS E or F	Percentage	25%	40%	50%	43%



# Next Steps

- Tysons Partnership Briefing May 23, 2012
- Public Information Meeting May 30, 2012
- Evaluate Impacts Summer 2012
- Second Public Information Meeting Fall 2012
- Study Completion Winter 2012

