VDOT Proposal to Address McLean Cut Through Traffic Problems

Board Transportation Committee
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Study Area: Existing Conditions

- Heavy PM peak hour volumes using Rt. 193 & other on-ramps to NB I-495
- Heavy intersection volumes along Rt. 193 (includes cut-through traffic)
### Issue: Safety and Access in neighborhoods and schools

<table>
<thead>
<tr>
<th>Different Solution</th>
<th>Solution Plan A (recommended)</th>
<th>Solution Plan B</th>
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<tbody>
<tr>
<td>▪ Has been modeled</td>
<td>▪ Up to a 4-month pilot with before and after analysis</td>
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<td>▪ Probability of success</td>
<td>▪ Approach the Federal Highway Administration (FHWA) to close Northbound I-495 on-ramp at Georgetown Pike from 1 to 7 PM</td>
<td>▪ Approach the Commonwealth Transportation Board (CTB) to prohibit turn movements from Georgetown Pike to Northbound I-495 on-ramp from 1 to 7 PM</td>
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Assumed Diversion Routes after Closure of the Georgetown Pike On-Ramp to the I-495 Inner Loop (PM)

PM peak hour – ramp closure detours will have greater impact
PM peak hour – ramp closure detours will increase queue on I-495
THROUGHPUT:
PM Demand vs. Throughput Comparison

PM peak hour – ramp closure will increase throughput upstream of Rt. 193
PM peak hour – ramp closure will decrease the overall travel time
Main Existing Diversion Routes to the I-495 Inner Loop and Recommended VMS Locations

16 recommended VMS locations
Comparison: Plans A and B

Plan A

Pros:
- Will eliminate cut throughs and improve safety/access
- Does not degrade the I-495 throughput in model
- Takes less law enforcement than Plan B

Cons:
- Eliminates local access to I-495 North at Rt. 193 during restriction
- Requires some law enforcement
- Causes slower speeds on I-495 and limits spot congestion in the model
- Requires FHWA approval and announcement in the Federal Register

Plan B

Pros:
- Will eliminate cut throughs and improve safety/access
- Does not require FHWA approval and Federal Register
- Allows exit and reentry of I-495 at Rt. 193
- Does not degrade the I-495 throughput in model

Cons:
- Eliminates local access to I-495 North at Rt. 193 during restriction
- Requires heavy and continuous local law enforcement
- Causes slower speeds on I-495 and limits spot congestion
Next Steps

- Initial Community Meeting – August 2
- Additional analysis of proposal and comments received
- Second Community Meeting – Fall 2018
- Staff Recommendation
- Board of Supervisors Consideration – Fall 2018
- Implementation, if endorsed by the Board
Questions/Discussion