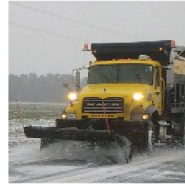


NORTH CAROLINA

Department of Transportation



I-40 RTP Feasibility Study: Interim & Long Term Improvements

Derrick Lewis, PE
June 2020

Study Parameters

Potential I-40 solutions in between I-540 and NC 147:

- ☐ One of heaviest traveled segments of Interstate in NC
- ☐ 5 interchanges in approximately 3.3 miles including 2 system interchanges and 3 access interchanges
- ☐ Weaving and ramp interaction between closely spaced interchanges adversely impacts traffic operations on I-40
- ☐ Do not preclude other improvements already planned including managed motorways, managed lanes, and the NC 147 reconstruction and widening project in STIP
- ☐ Consider how to implement in phases

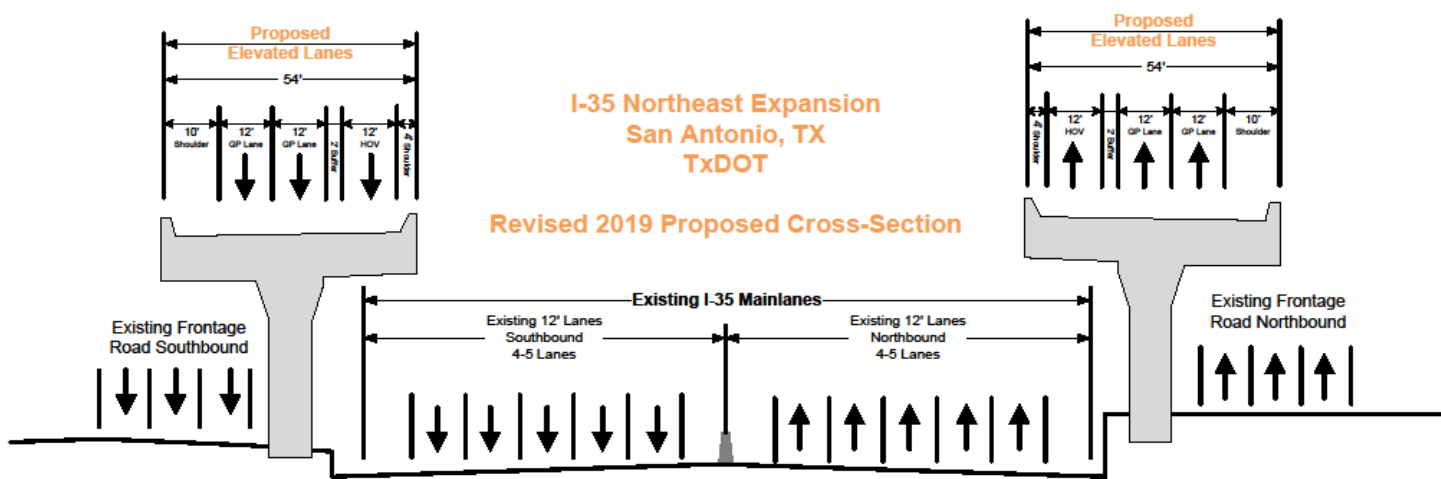
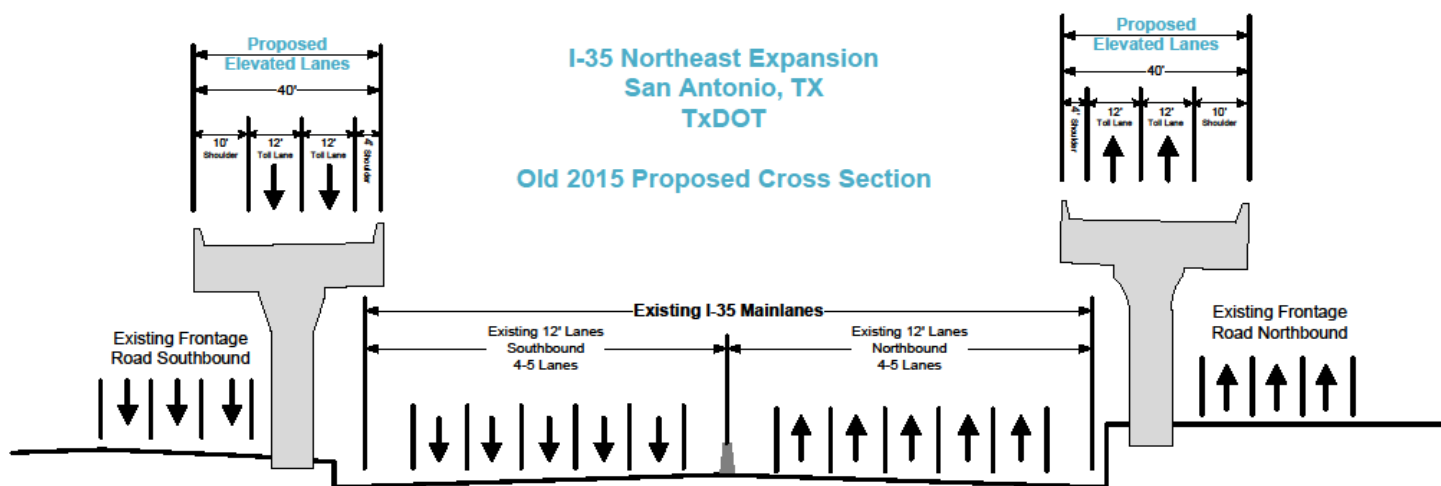
Study Options

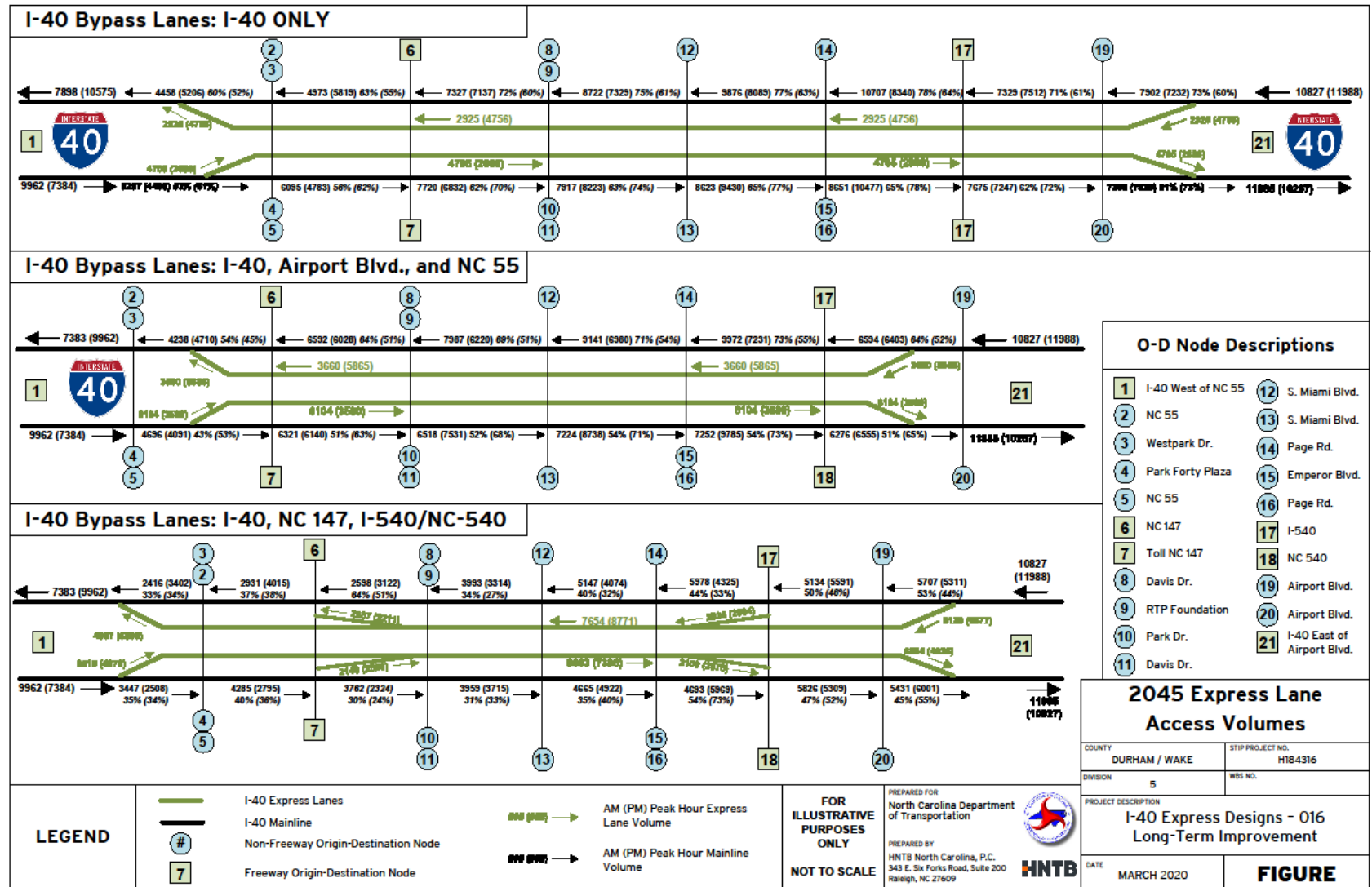
Frontage Road System

- ☐ Develop parallel street network and slip ramps to minimize weaving and friction on freeway lanes

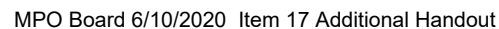
Express Lanes

- ☐ Even with the future parallel street network in place, demand on existing freeway lanes is expected to exceed capacity
- ☐ Evaluate Elevated Express Lanes to minimize impacts
- ☐ Probably implemented as Managed Lanes
- ☐ Primarily for I-40, NC 147 and I-540 traffic





FOR ILLUSTRATIVE PURPOSES ONLY, NOT TO SCALE



Questions?

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