North Carolina Turnpike Authority

Board of Directors - Operations Committee Meeting

June 18, 2020



Opening Comments

JJ Eden

Executive Director

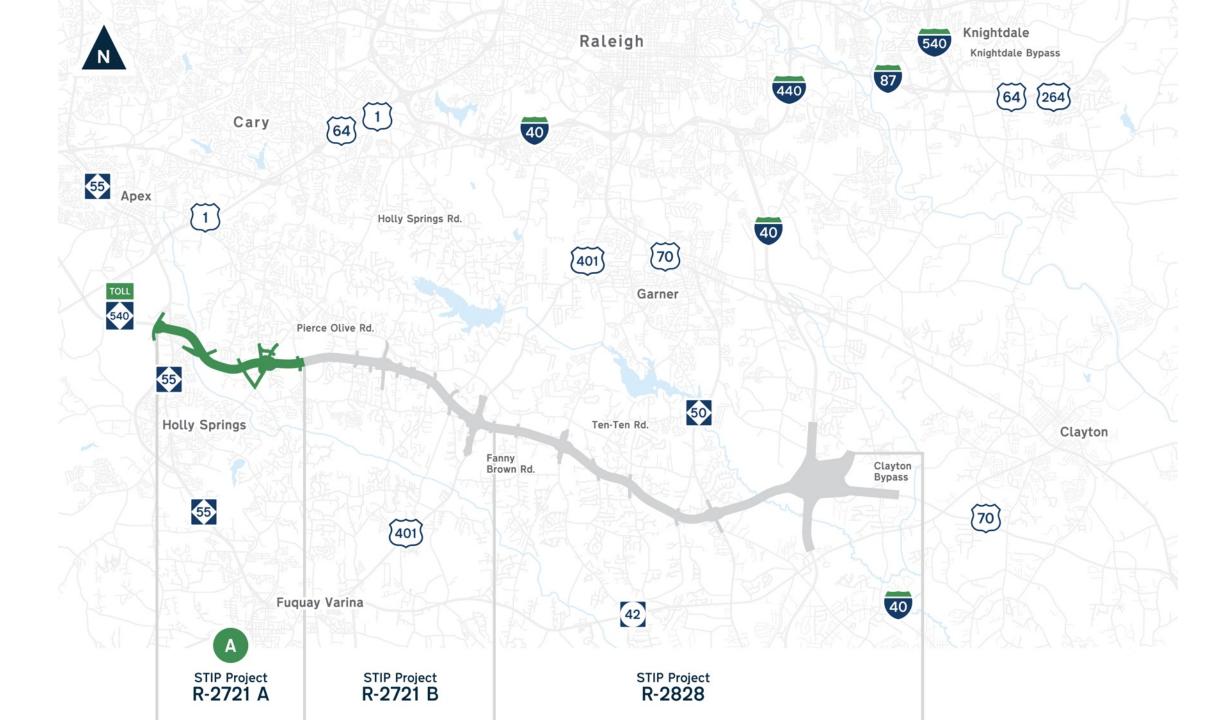
April Statistics

- Triangle Expressway
 - Transactions 1.9 million
 - Revenue \$3.4 million
- Monroe Expressway
 - Transactions 1.6 million
 - Revenue \$1.5 million
- Transponders
 - Nearly 9,700 distributed
 - Over 832,000 distributed program-to-date as of April 30, 2020

Complete 540 Construction Update

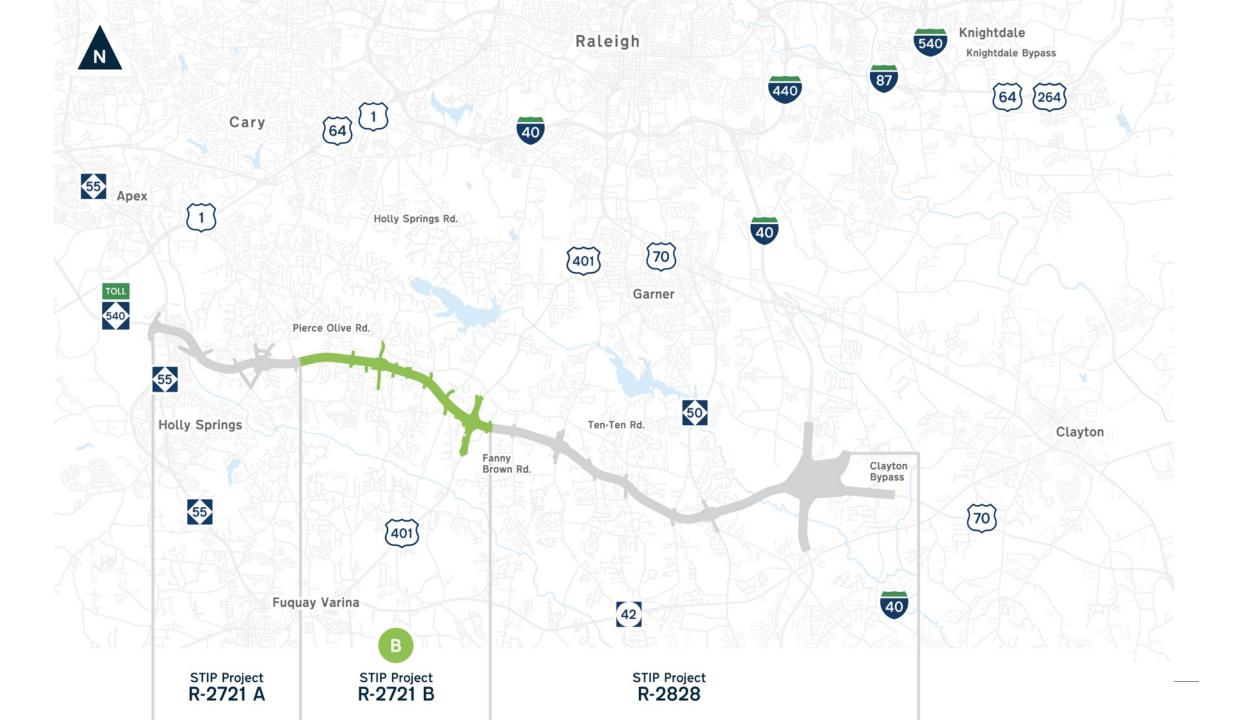
Dennis Jernigan, P.E.Director of Highway Operations





Plans for R-2721A 74% Construction 4.3 miles **Length of Project** \$183.5M **Cost of Contract** 193 **Design Submittals**

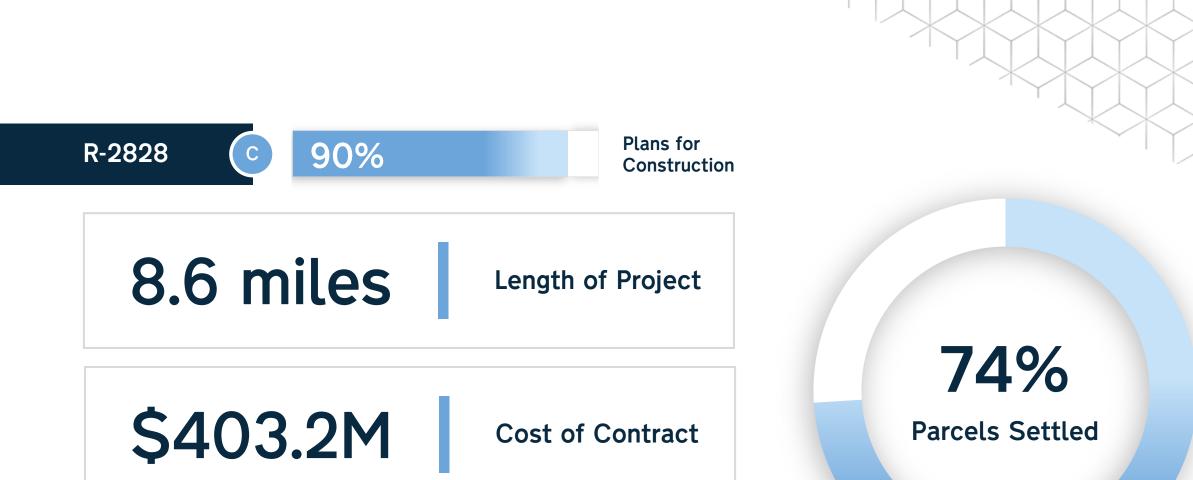
97% **Parcels Settled**



Plans for R-2721B 77% Construction 4.9 miles **Length of Project** \$160.0M **Cost of Contract** 152 **Design Submittals**

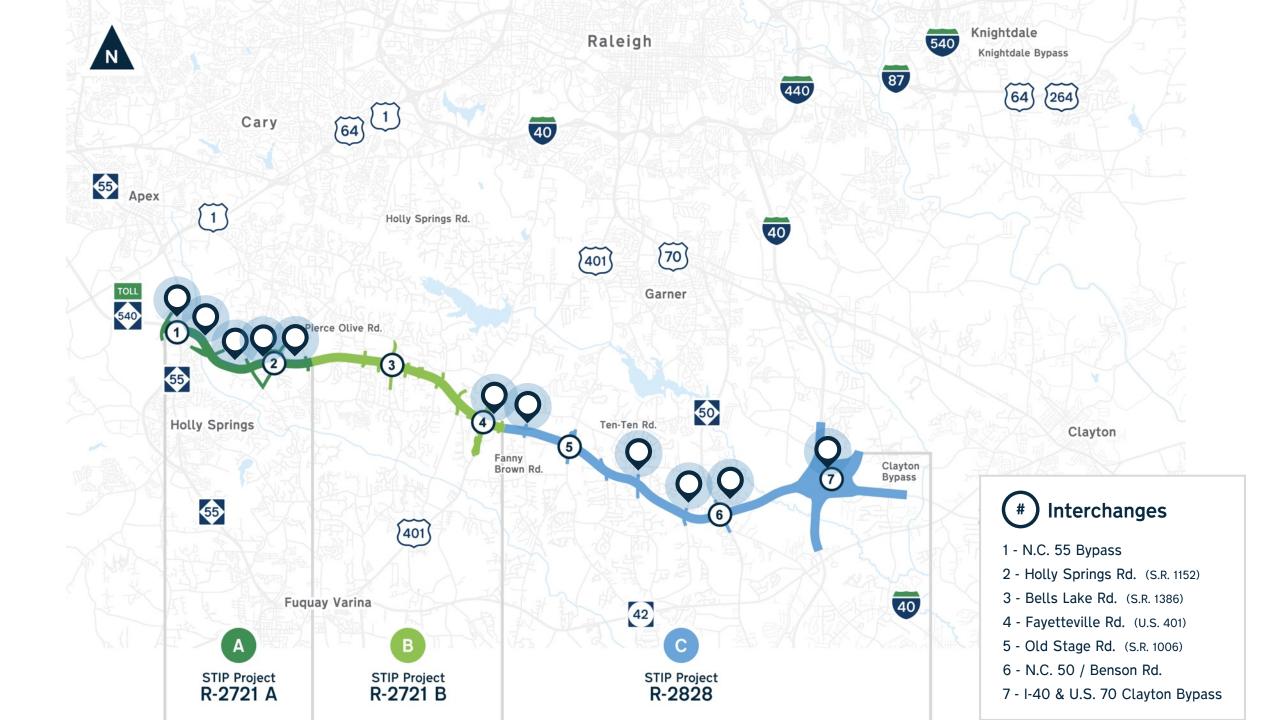
95%
Parcels Settled



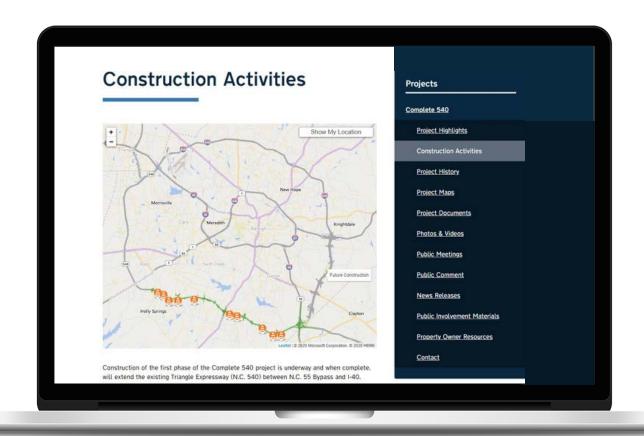


Design Submittals

363



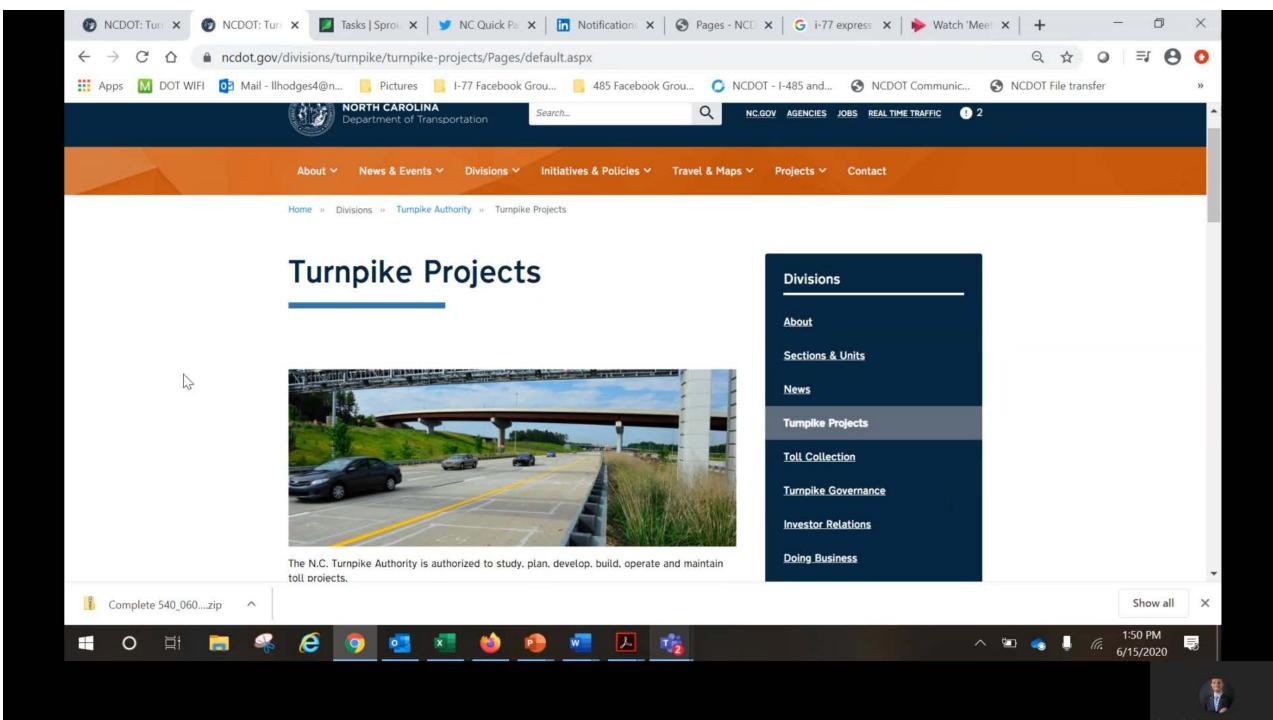
Complete 540 Interactive Map



Creative

Connected

Convenient









































Complete 540 Outreach



Virtual Neighborhood Meetings

Complete 540 Interactive Map

Resident Communications

Service Center Contract Transition

Manish Chourey
Chief Technology Officer

CSC Covid-19 Response

Pandemic Update

- Employees and Embedded Consultants working remotely
- Website trends indicate 45%-50% reduction in traffic
- Call volumes remain at 70-80% compared to Feb-2020 volumes
- New debt collections suspended effective 3/30/2020
- NCTA suspended invoice escalation effective 4/3/2020

CSC Operation is in Code Red

- Walk-in Centers are shutdown since 3/18/2020
- CSR's are spaced out to meet social distancing (6+ feet)
- Plans to Reopen are under considerations
- Keeping current with incoming workload
- Expansion Area occupancy certificate received on 5/22/2020
- Expansion Area is used for CSR Training, Transponder storage and BOS2 upgrade IV&V Test area

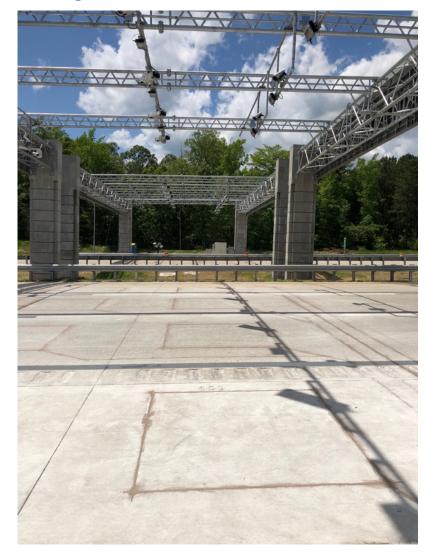
Operations Contract Transition

- Operator GC Services commenced Operations Saturday 5/31/2020.
- Lower production work and call volumes allowed controlled transition.
- Transition of former AECOM (154) staff members to GC employment has been relatively smooth.
- The new GC management team (the six key personnel) become more comfortable with each day.
- GC Services IT transition tasks took longer than planned but had no impact to operations.
- There are no critical outstanding items however GC team continues to close out documentation related to 'Implementation Phase'.
- AECOM's departure was smooth and cordial; three key staff will remain on-site for approximately 60 days for AECOM Contract closure and final invoicing tasks.

Morrisville Mainline Toll Zone Transition

Manish Chourey
Chief Technology Officer

Toll System Installation





Morrisville Interchange Toll System

Upcoming Major Milestones

- Working with Kapsch to receive updated project schedule for the remaining work
- Roadside and Host servers are installed at Morrisville CSC data center
- Disaster recovery (secondary) Host server is getting installed in Austin
- Kapsch continues to develop their installation plan for this effort and projects a new plan will be submitted next week

Testing

- Interface Testing completed first week of June between Legacy and New system
- Roadside and Host system end to end and commissioning test scheduled in July

Training

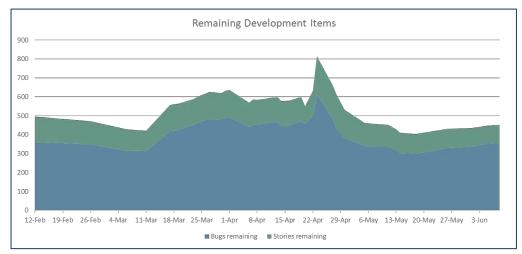
- Host Admin Training Workbook and User Manual review completed. Analyzing how the training can be conducted remotely
- CMT: Initial training was provided 5/21 and the STOC staff has confirmed they are now able to support Kapsch ITS devices (installation completed first week of June)

Toll Technology Update

Manish Chourey
Chief Technology Officer

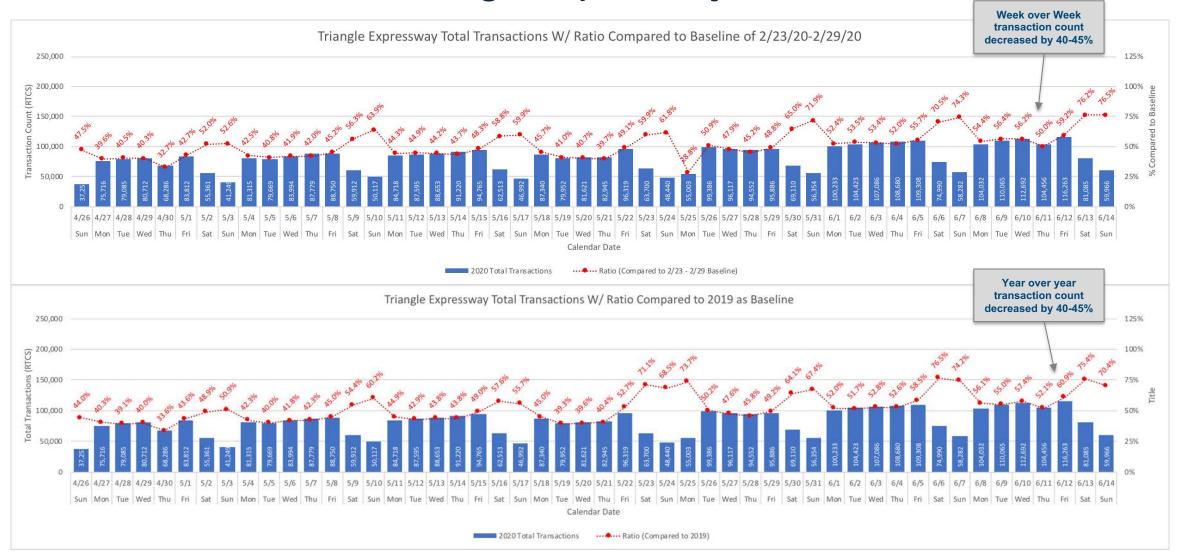
BackOffice System Update

- Data migration multiple iterations planned
 - first iteration completed
 - Incremental iteration started
- 3 different phases of testing
 - Functional testing few punch items left to close (Delayed by over 7 months)
 - Interface testing Summer 2020
 - Performance testing Fall 2020
- Additional testing Independent Validation and Verification (IV&V) cycle
- CSR Training 30-45 days prior to system transition date
- System Transition Fall 2020



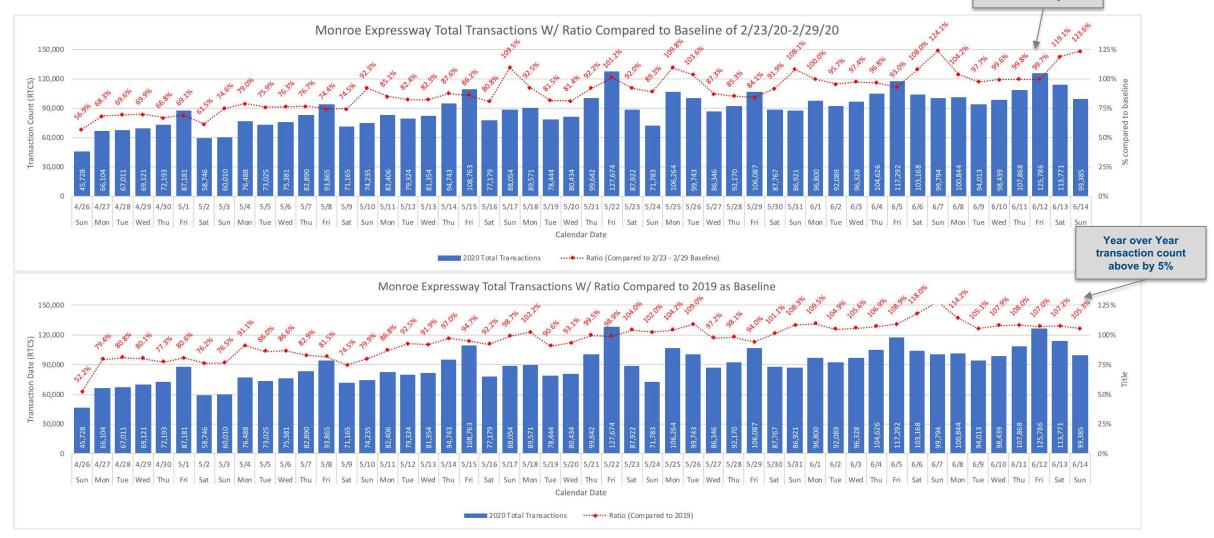
Interface	Dev	Connectivity	Test	Summary
IVR	✓	✓	95%	Testing various scenarios on IVR
Mailhouse	√	✓	90%	Testing correspondence sample files (19 of 23 documents formally approved)
RTCS	✓	✓	90%	LFFTC testing w/Monroe – bug fixes underway
IAG	✓	×	90%	Testing Correction Interface
SE Hub	✓	×	90%	Testing Correction Interface
NC DMV	✓	×	90%	Test connectivity established, pending prod connection
NC SAP	✓	×	90%	Pending completion of Finance Recon to test with SAP
License Plate Lookup	✓	✓	90%	Pending DMV agreements from NCTA
Retail Payment Provider	✓	×	75%	MG setting up testing site
ACH and CC Payment	✓	✓	90%	Working through AMEX refresh
Lockbox	✓	✓	95%	CDM setup complete, testing underway for CDM
Collections	85%	×	60%	Provided sample new assignment and payment file to Duncan
HOV – RTCS	✓	✓	90%	APIs developed, pending test with I-77
Email / SMS – Twilio	✓	✓	92%	Corr content and triggers have been loaded, testing

Transaction Statistics - Triangle Expressway



Transaction Statistics - Monroe Expressway

Week over Week transaction count decreased by 5%



NCTA Quick Pass Web Site Metrics

January-2020



May-2020



I-485 Express Lanes Update

Andy Lelewski, P.E.
Director of Program Development

- 4 structures and 1 box culvert are under construction.
- Over 29 miles of portable concrete barrier have been installed.
- Approximately 11,000 LF of pipe have been constructed.



Segment C Median Widening near Rea Road

- Over 8 miles of median widening is under construction.
- Soil stabilization, ABC placement, and asphalt paving is ongoing.
- Over 6,000 LF of conduit has been installed for ITS/AET facilities.



Segment C Median Widening near Providence Road

John St. interchange bridge widening is underway.



• Ballantyne Commons Parkway bridge foundations began on 6/1/20.

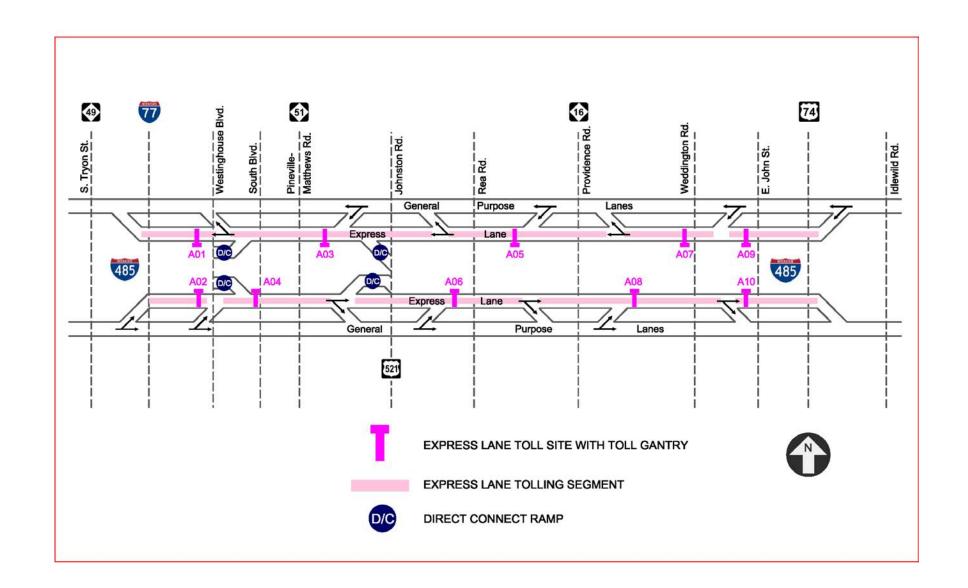


Toll Collection System

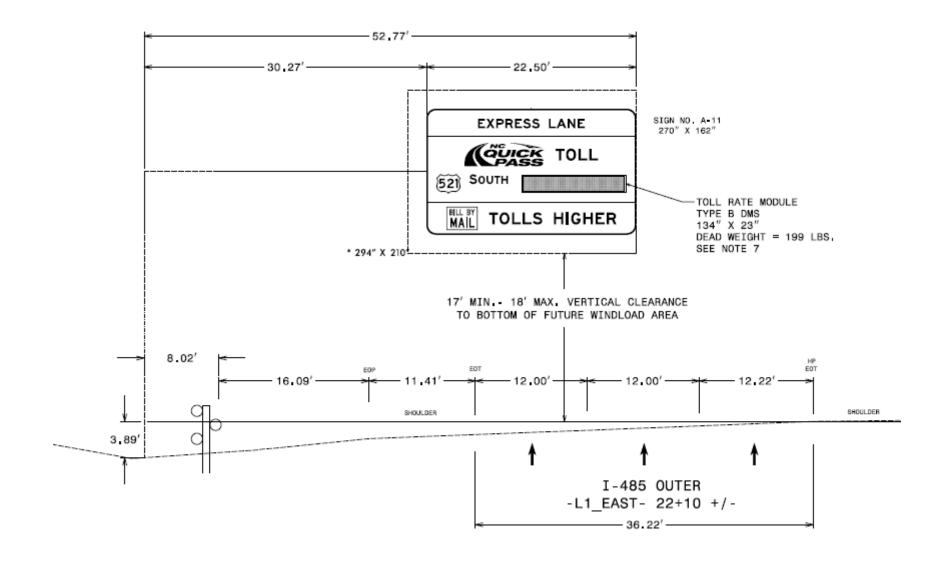
NCTA will provide:

- Design, test, installation, operations, and maintenance of the Roadside Toll Collection System (RTCS)
- Dynamic pricing system
- Operations and maintenance of some components of the Intelligent Transportation System (ITS)

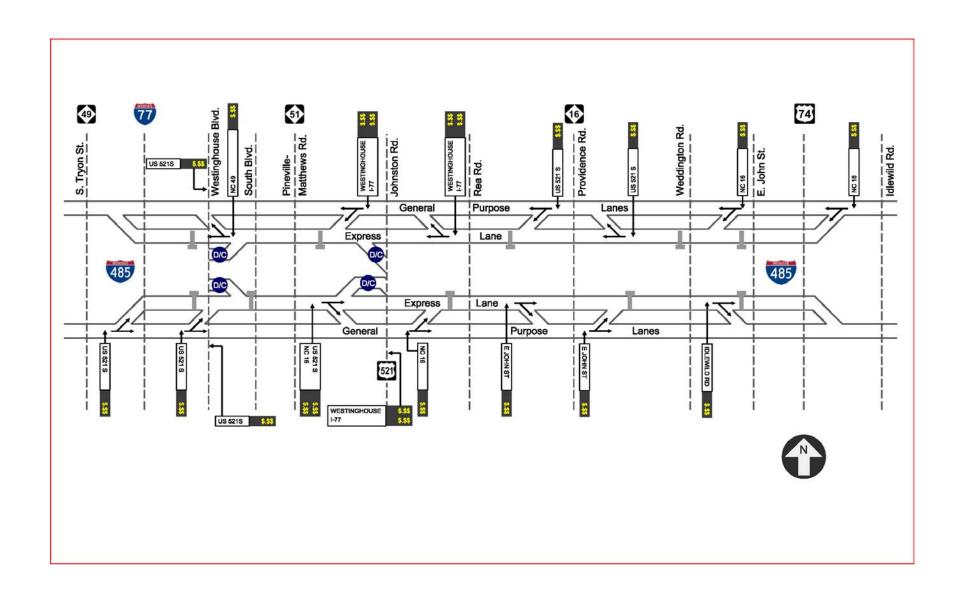
Toll Sites & Toll Segments



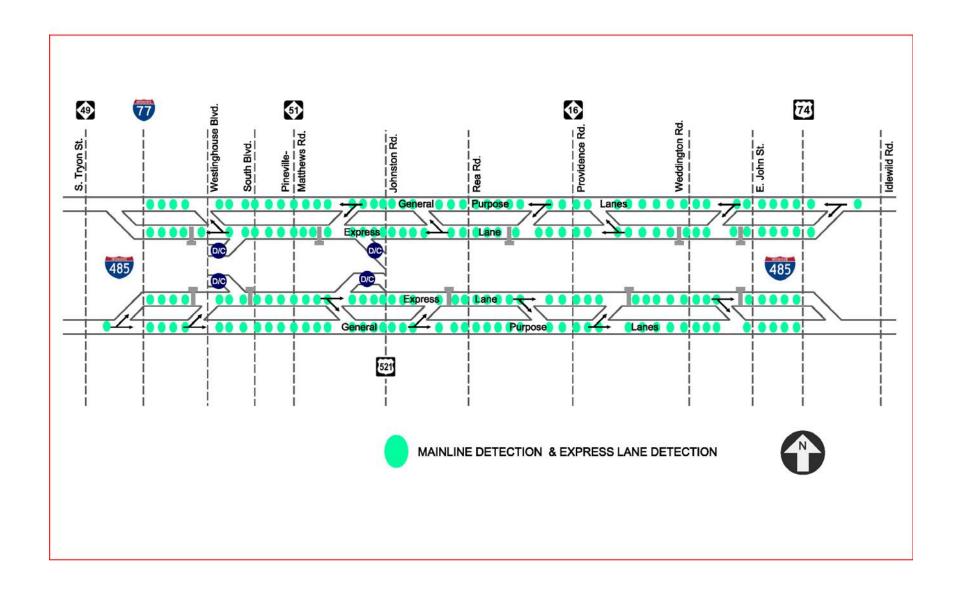
Toll Rate Sign Detail



Toll Rate Signs



Dynamic Pricing Detection



NCTA Activities

Recent NCTA Accomplishments

 Review of Toll Zone Infrastructure, Intelligent Transportation System, Toll Collection Signing/Pavement Marking submittals

Upcoming NCTA Work

- Continue review of submittals
- Monitoring of Early Work along the corridor
- Development of RTCS Request for Proposals

Schedule

- Summer 2020 Release of RTCS Request for Proposals
- Fall 2022 Commencement of tolling

Thank you!