



North Carolina Turnpike Authority

Board of Directors Meeting

February 6, 2020

Finance & Budget Update

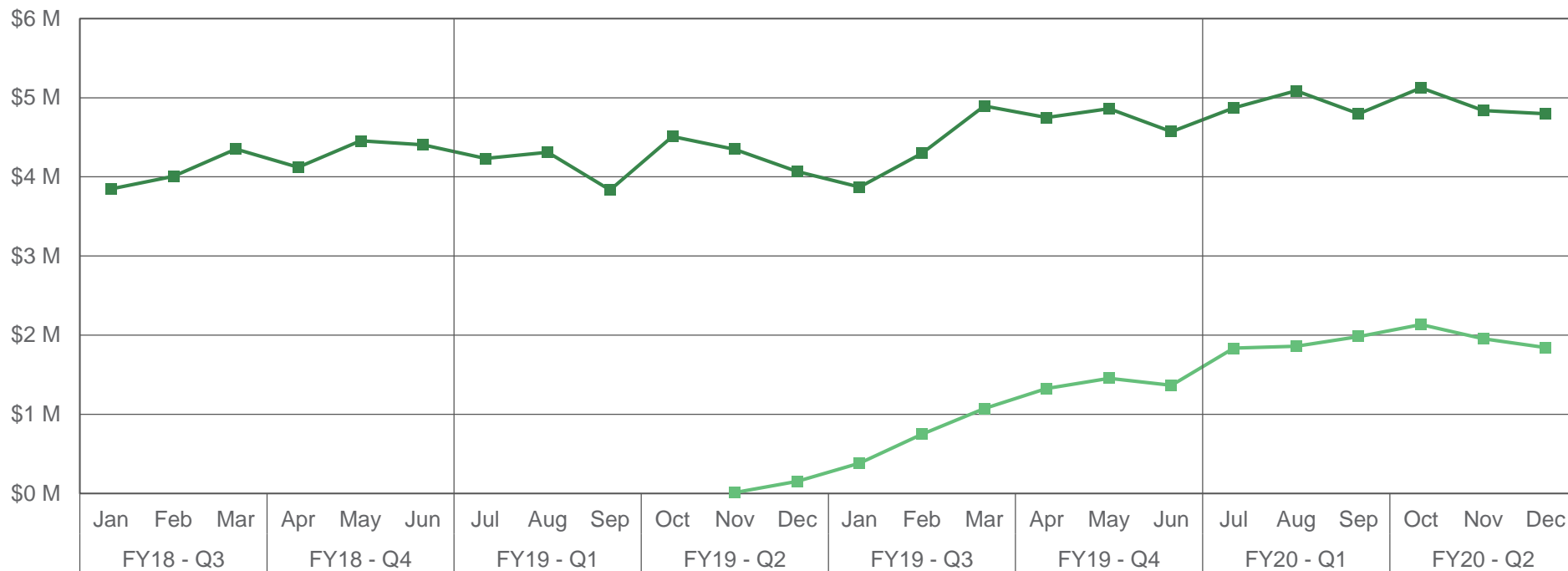


David Roy

Director of Finance & Budget

Revenue Statistics

Triangle Expressway Monroe Expressway



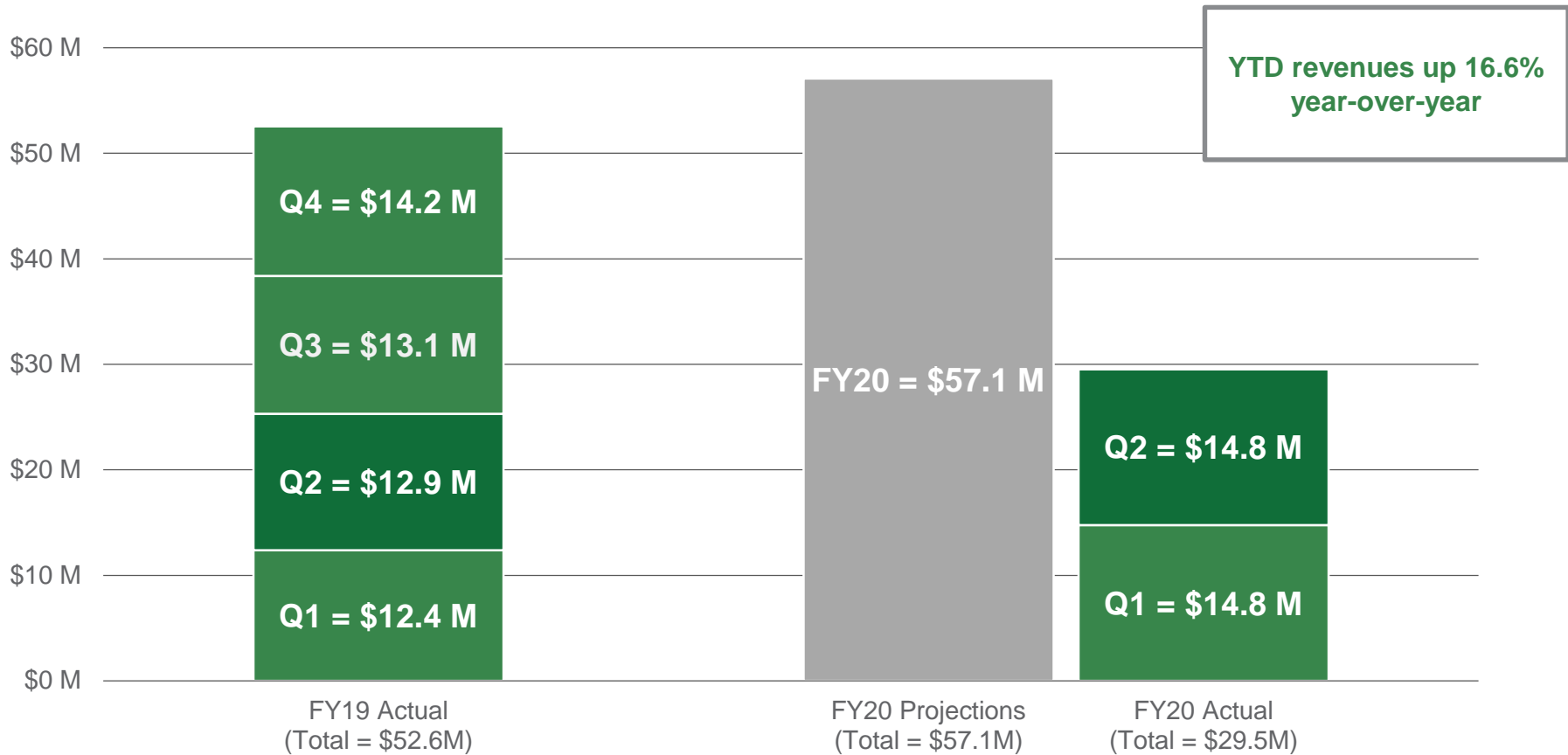
	FY18 - Q3	FY18 - Q4	FY19 - Q1	FY19 - Q2	FY19 - Q3	FY19 - Q4	FY20 - Q1	FY20 - Q2
Triangle Expressway Actual Revenue¹	\$ 12,206,584	\$ 12,982,210	\$ 12,378,736	\$ 12,925,510	\$ 13,064,297	\$ 14,182,712	\$ 14,754,750	\$ 14,760,730
YOY Percent Change	7.3%	11.7%	3.7%	9.4%	7.0%	9.2%	19.2%	14.2%

	FY18 - Q3	FY18 - Q4	FY19 - Q1	FY19 - Q2	FY19 - Q3	FY19 - Q4	FY20 - Q1	FY20 - Q2
Monroe Expressway Actual Revenue¹	\$ -	\$ -	\$ -	\$ 165,086	\$ 2,203,676	\$ 4,147,407	\$ 5,677,716	\$ 5,929,466

¹Actual revenue is reported on a cash basis

Revenue Statistics

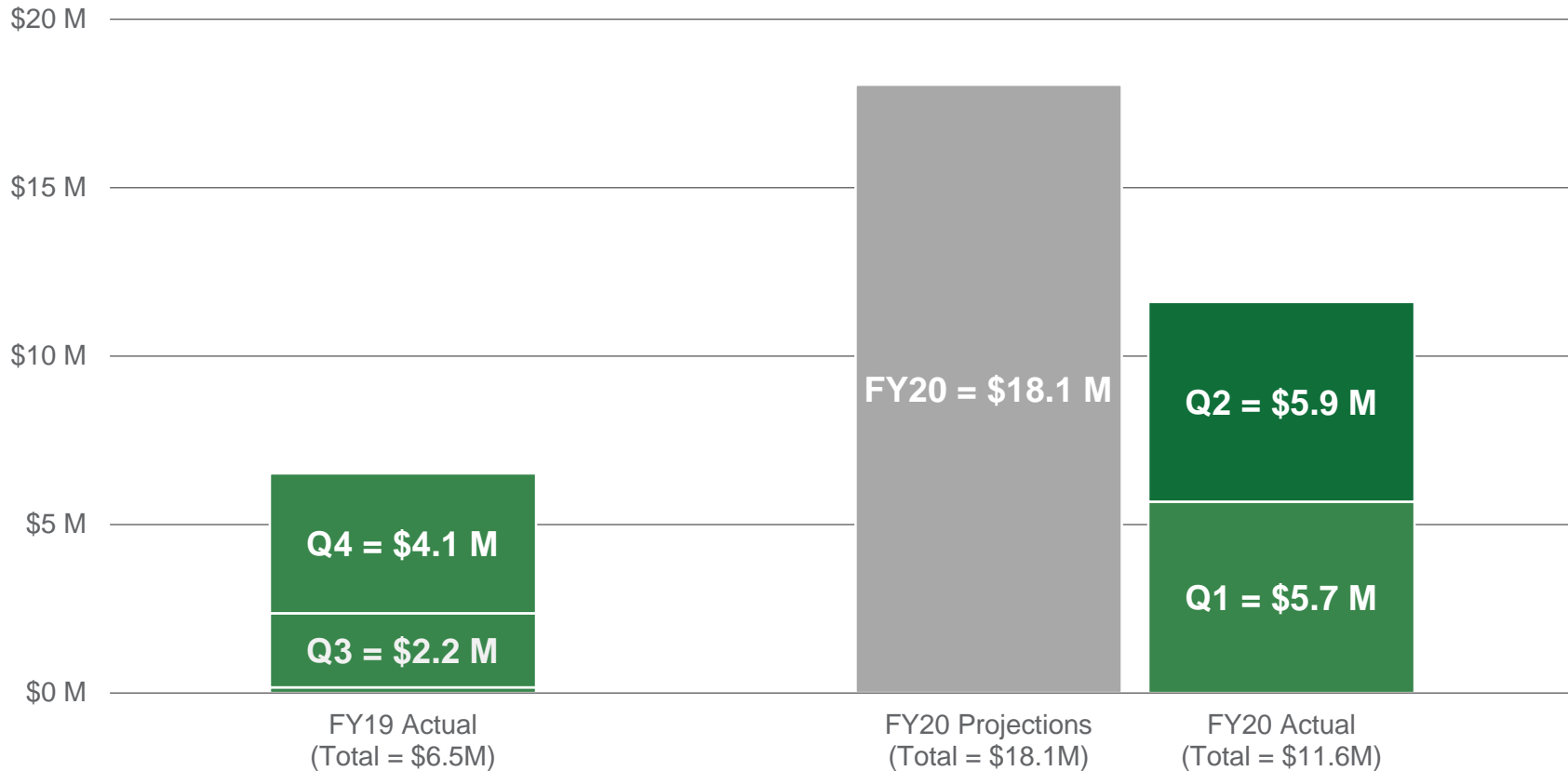
Triangle Expressway



- Revenue figures are inclusive of all toll revenue and fees
- Actual revenues reported on a cash basis

Revenue Statistics

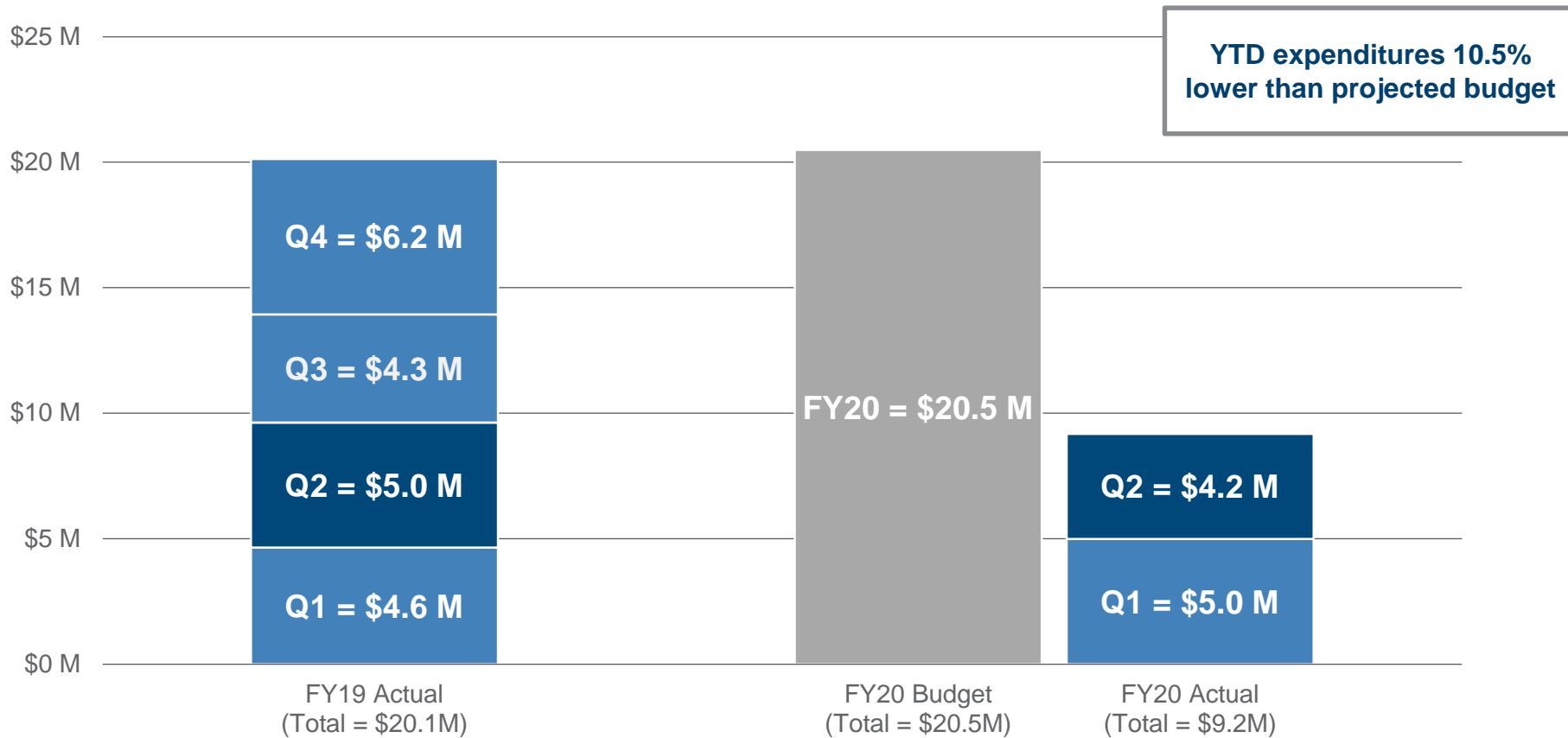
Monroe Expressway



- Revenue figures are inclusive of all toll revenue and fees
- Actual revenues reported on a cash basis
- Projections based on 2016 Traffic & Revenue Study; revenues are shown in the same fiscal year as the corresponding transaction

Operating Expenditures

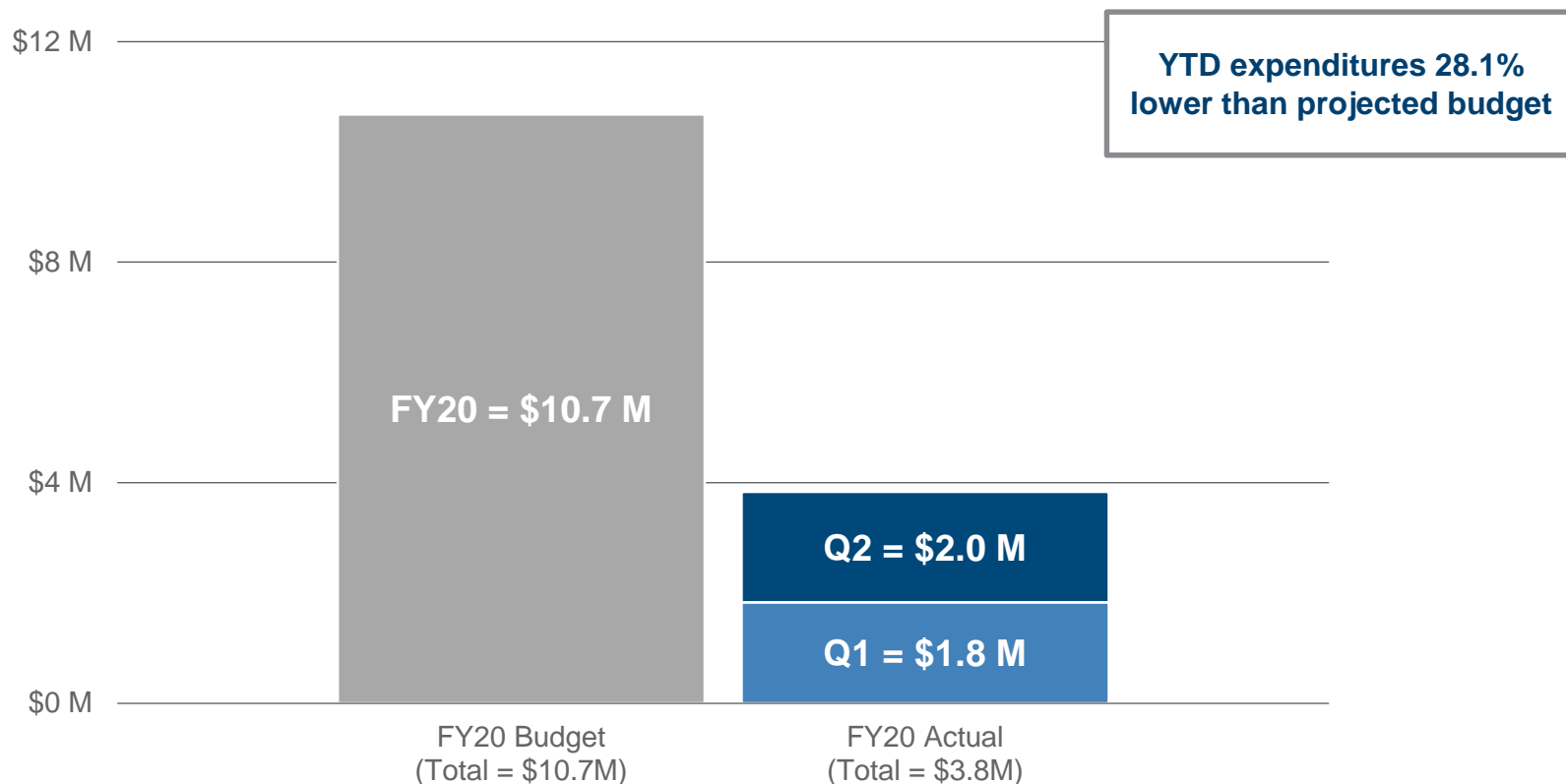
Triangle Expressway



- Actual operating expenditures reported on a cash basis

Operating Expenditures

Monroe Expressway



- Actual operating expenditures reported on a cash basis

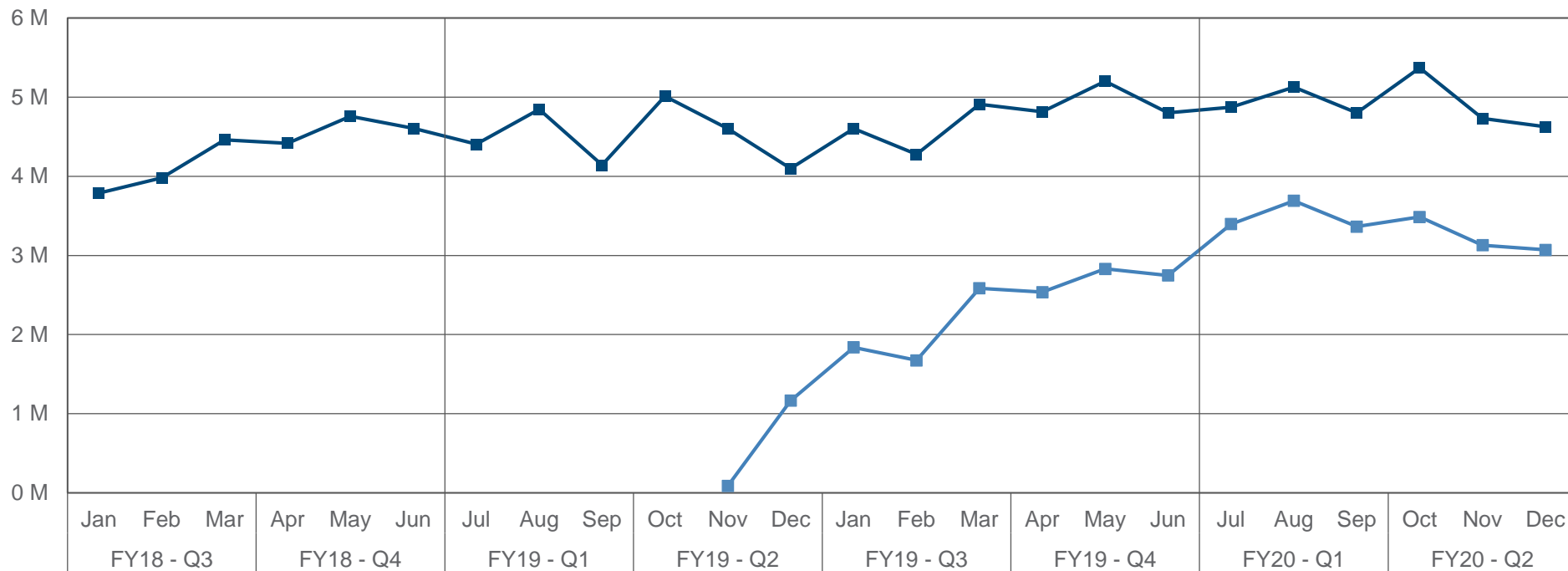
Toll Technology Update



Manish Chourey
Chief Technology Officer

Transaction Statistics

Triangle Expressway Monroe Expressway



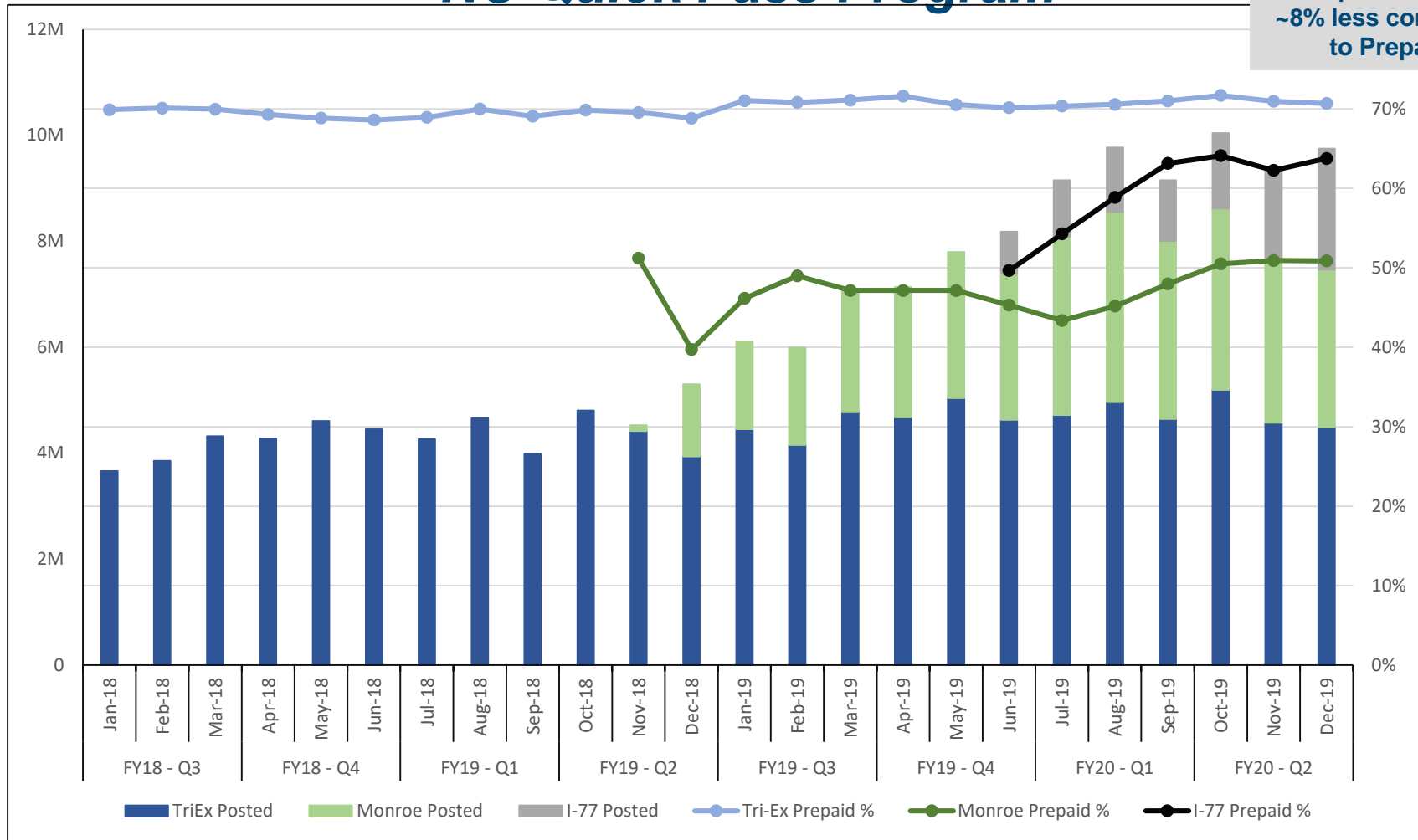
	FY18 - Q3	FY18 - Q4	FY19 - Q1	FY19 - Q2	FY19 - Q3	FY19 - Q4	FY20 - Q1	FY20 - Q2
Triangle Expressway Transactions	12,232,513	13,780,931	13,394,773	13,712,458	13,787,834	14,816,341	14,798,679	14,727,149
YOY Percent Change	5.8%	8.7%	6.6%	8.3%	12.7%	7.5%	10.5%	7.4%

	FY18 - Q3	FY18 - Q4	FY19 - Q1	FY19 - Q2	FY19 - Q3	FY19 - Q4	FY20 - Q1	FY20 - Q2
Monroe Expressway Transactions	-	-	-	1,253,524	6,096,550	8,115,596	10,453,336	9,686,088

Total Posted Transactions

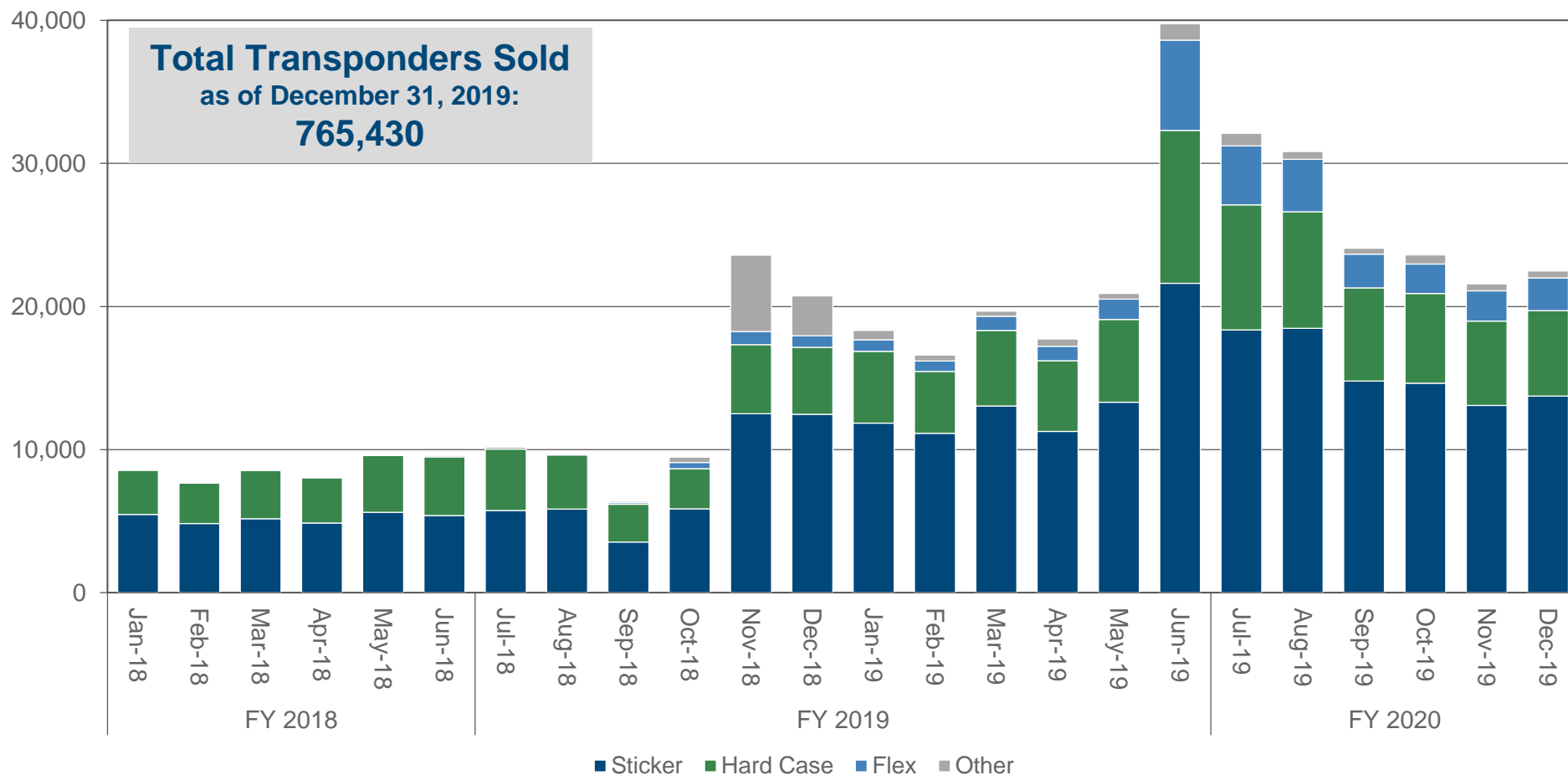
NC Quick Pass Program

Transponder read is
~8% less compared
to Prepaid

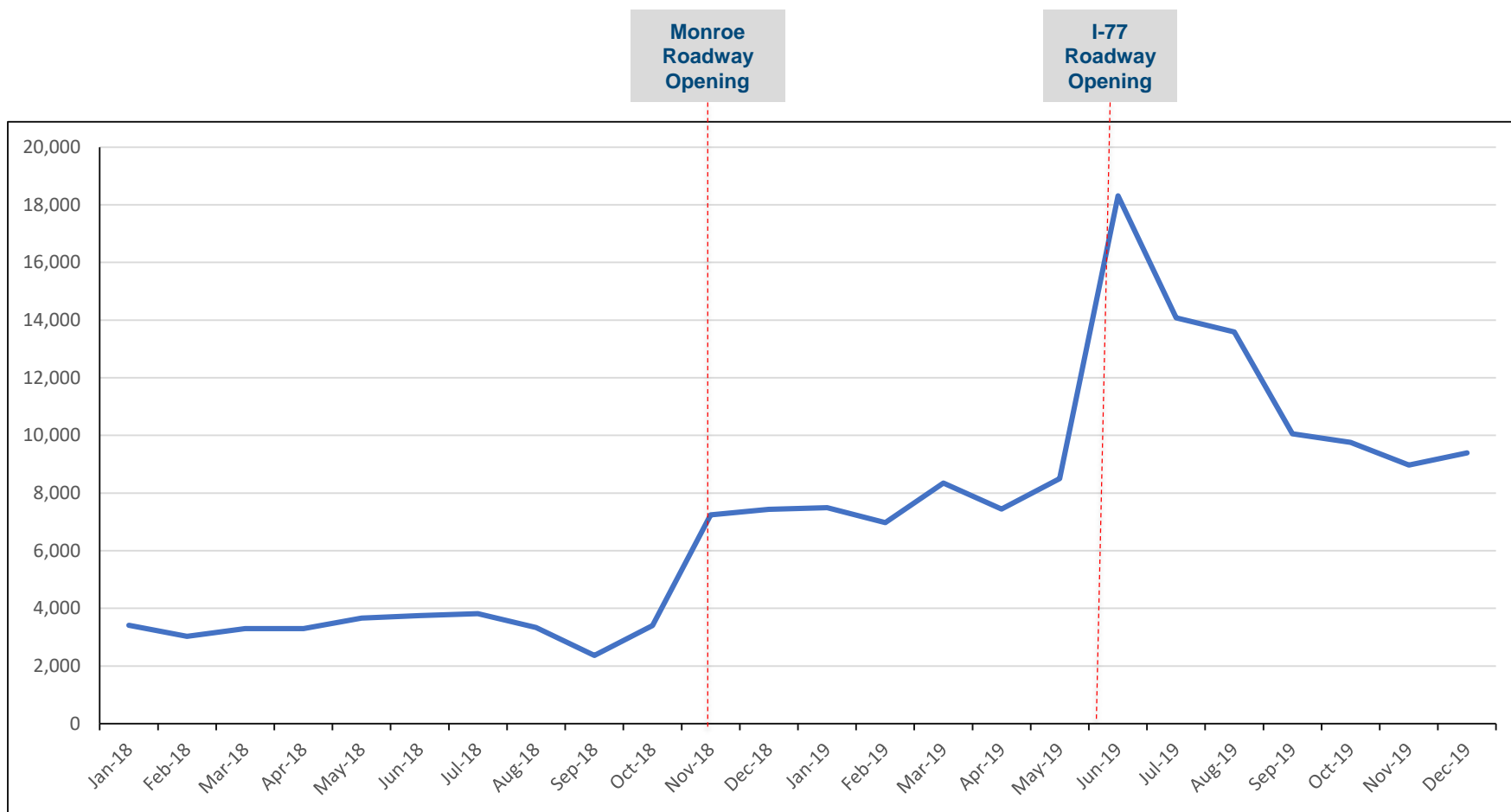


Monthly Transponders Sold

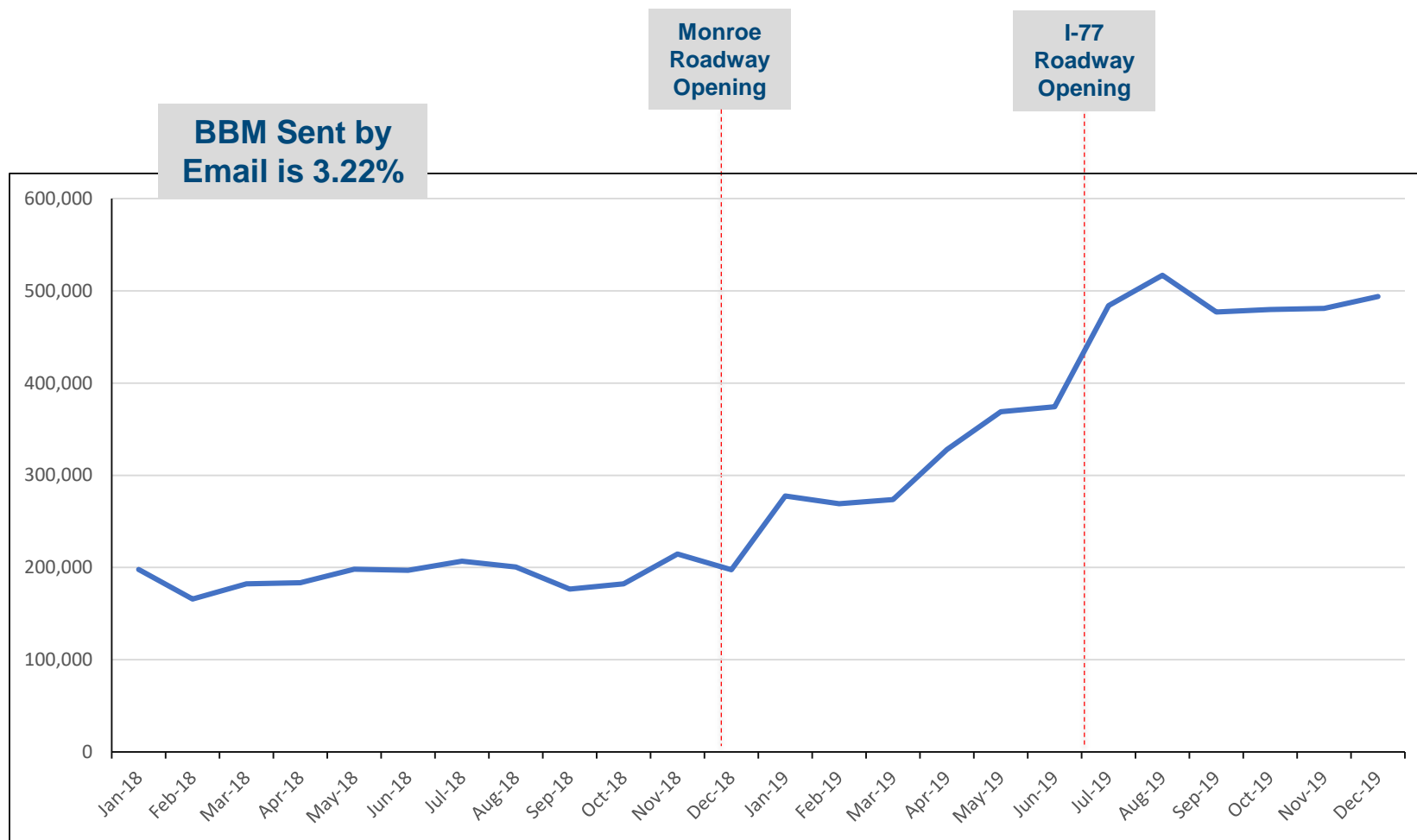
NC Quick Pass Program



NC Quick Pass Account trends

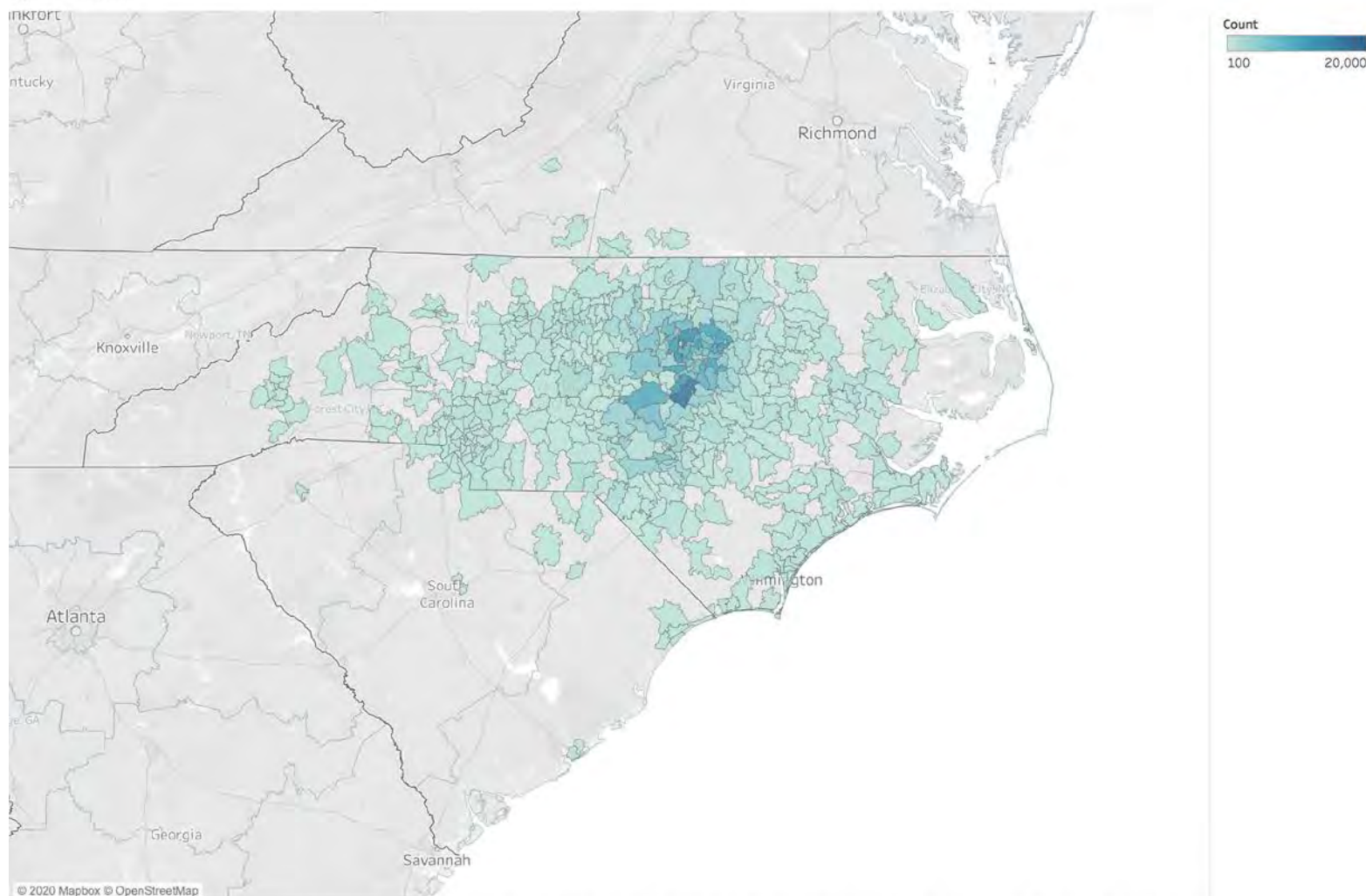


Bill By Mail Sent trends



Bill By Mail Sent – Q2 FY2019

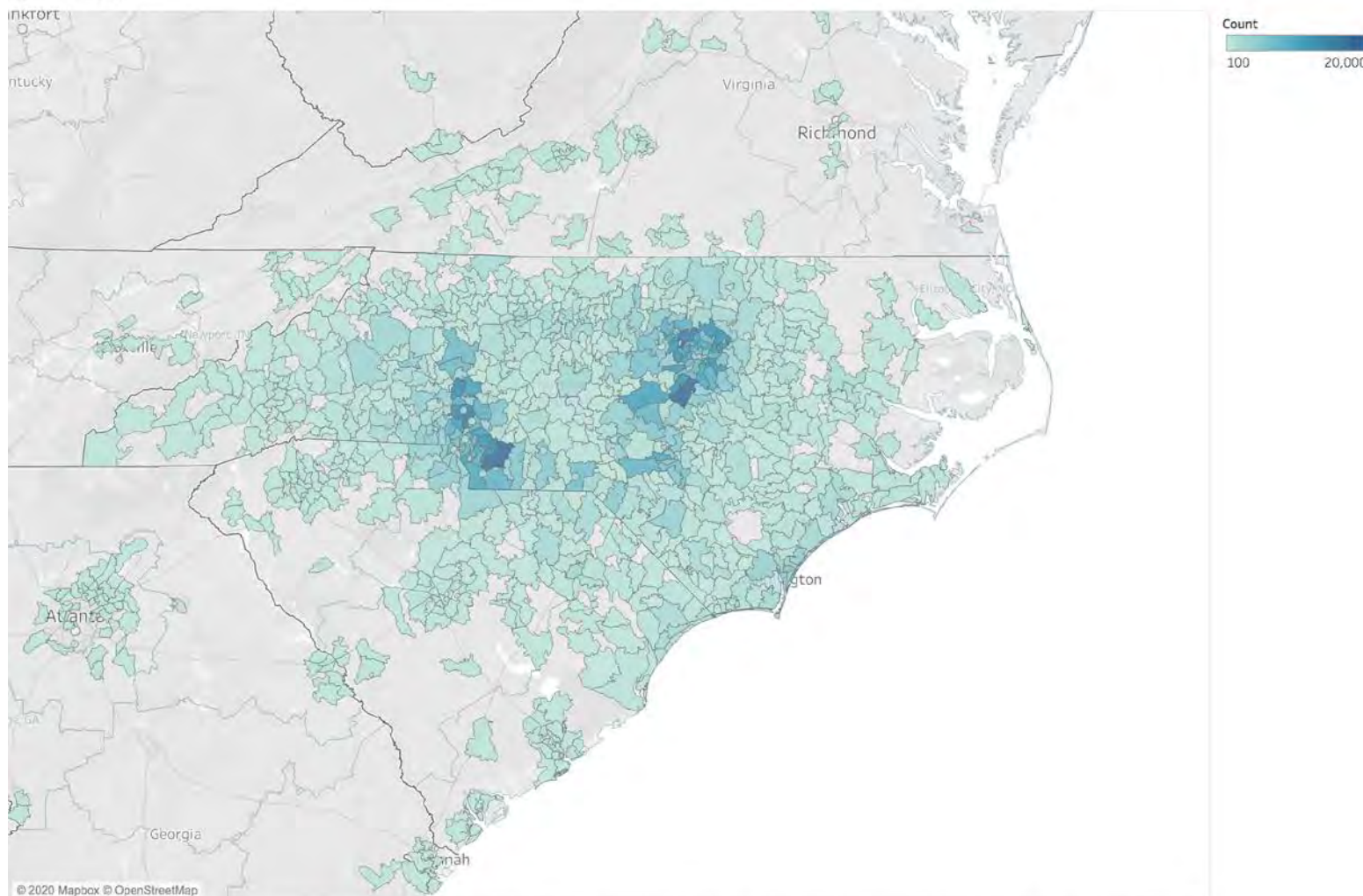
Q2 - FY2019



Map based on Longitude (generated) and Latitude (generated). Color shows sum of Count. Details are shown for Zip Code. The data is filtered on Invoice Quarter and sum. The Invoice Quarter filter keeps Q2 - 2019. The sum filter includes values greater than or equal to 100.

Bill By Mail Sent – Q2 FY2020

Q2 - FY2020



Map based on Longitude (generated) and Latitude (generated). Color shows sum of Count. Details are shown for Zip Code. The data is filtered on Invoice Quarter and sum. The Invoice Quarter filter keeps Q2 - 2020. The sum filter ranges from 100 to 17,982.

I-77 New segments opened on 16-Nov-2019
 Dynamic Toll rate went into effect on 3-Dec-2019
 Max End to End Toll Charge - \$10.60
 Max Toll Charge (Tolling point - I06*/I13**) - \$3.54

I06* = 2S - Westmoreland Road – 77 EL SB, Catawba to Sam Furr

I13** = 6N - Westmoreland Road – 77 EL NB – Westmoreland to Griffith

Statistics	Transactions Nov 1 st – 15 th	Transactions Dec 1 st – 15 th	Transactions Jan 5 th – 19 th	Variance Nov & Jan
Number of Toll Transactions	672,881	1,160,424	1,101,643	+63.72%
Number of Distinct Vehicles	108,517	140,556	127,911	+17.87%
Number of Pre-Paid Transactions	424,320	742,827	727,937	+71.55%
▪ Number of Transponder Transactions	342,808	631,460	596,178	+73.91%
▪ Number of Image Transactions	81,512	111,367	131,759	+61.64%
Number of Post-Paid Transactions	248,614	417,597	373,716	+50.32%
Percentage of Transactions Opted as HOV	13.01%	13.28%	15.15%	+2.14

System Upgrade Preview – BOS2



Manish Chourey

Chief Technology Officer

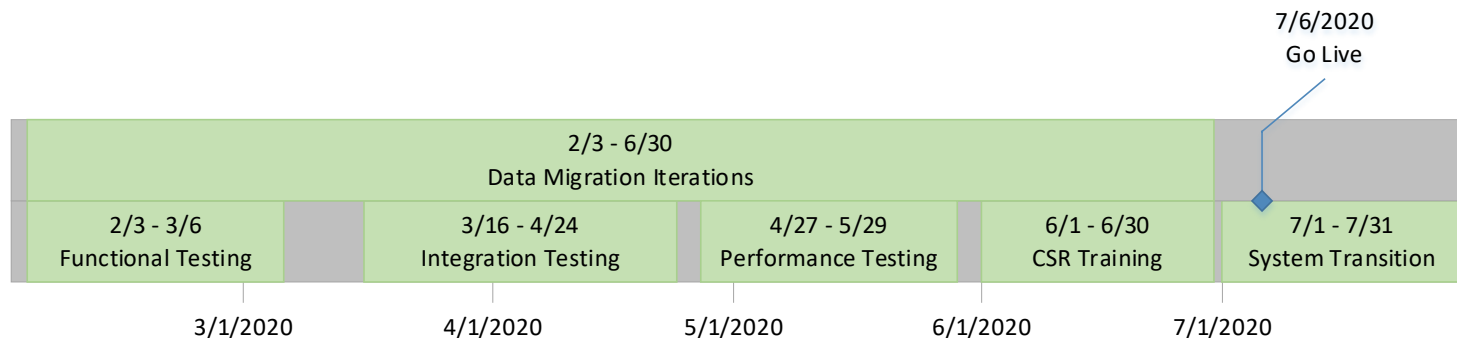
Kristen Pearce

Back Office System Manager

Back Office System Upgrade Timeline Projections

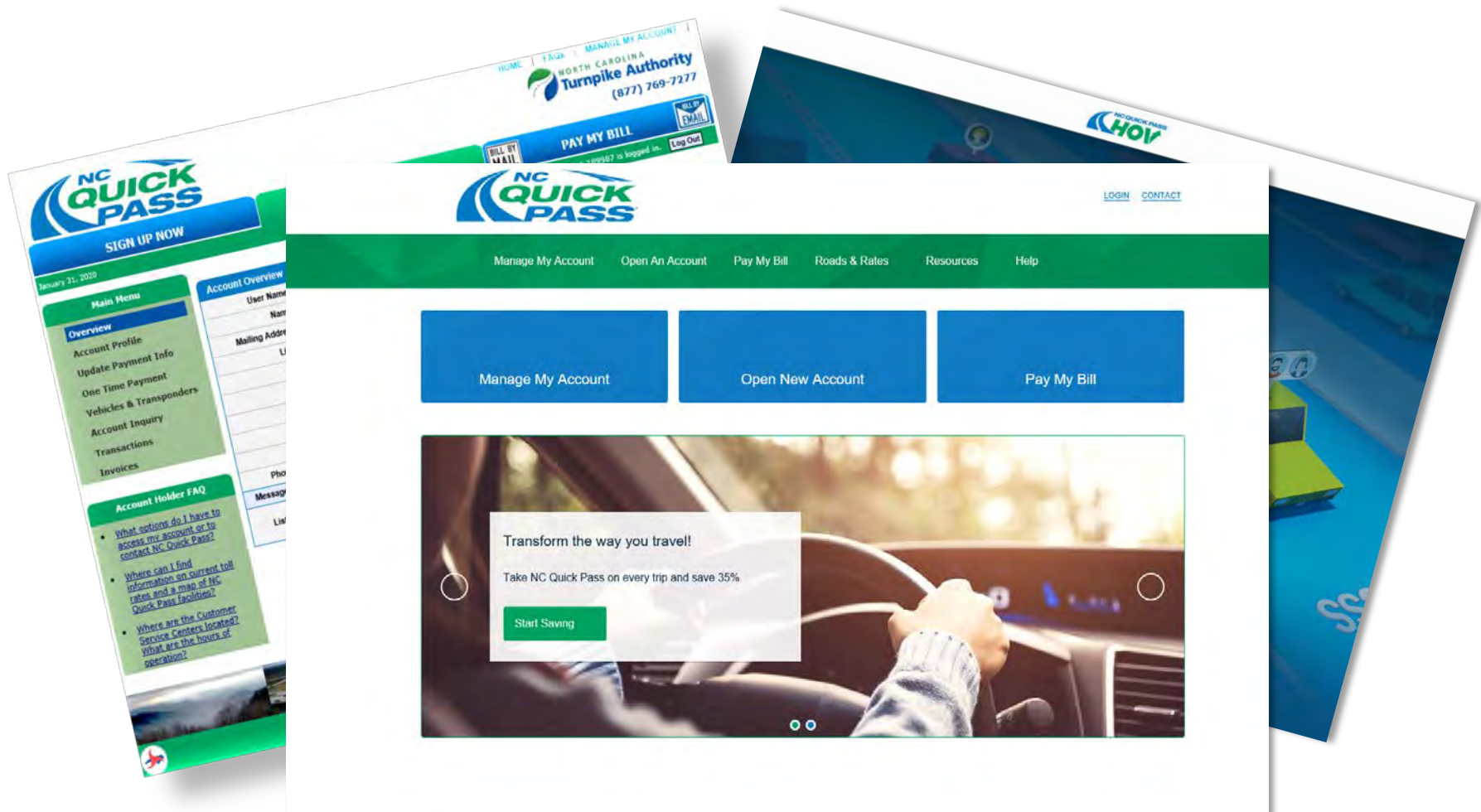
Back Office System Upgrade Phases

- Software Design & Development Phase completed – December 2019
- Data Migration has multiple iterations
- 3 different phases of Testing
 - Functional – Verify application complies to program's business rules
 - Integration – Application integrates with interfaces such as Roadside transactions, DMV, CC, IOP
 - Performance – Application load tests to verify it can handle CSR, Web, IVR and Batch processes
- CSR Training – Provide adequate training to ensure CSR can handle customer interactions
- System Transition – Cutover of activities from current system



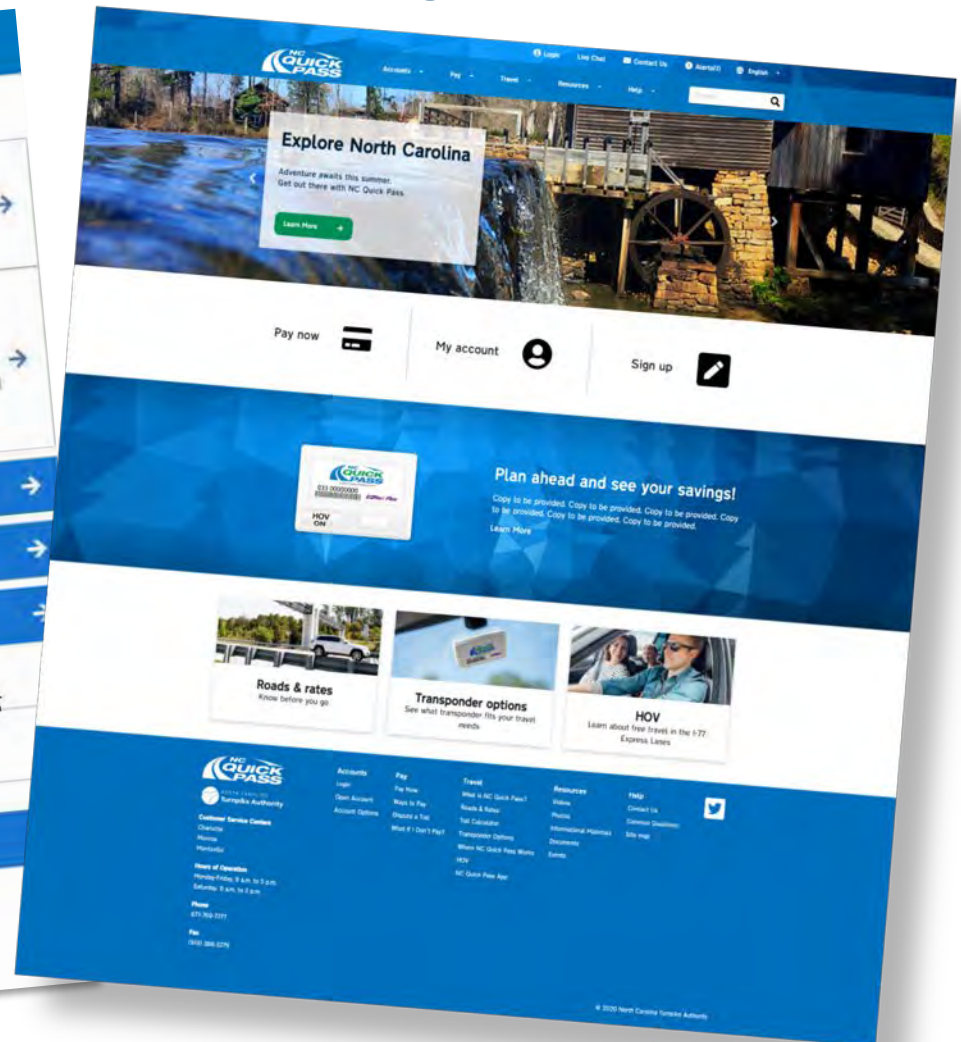
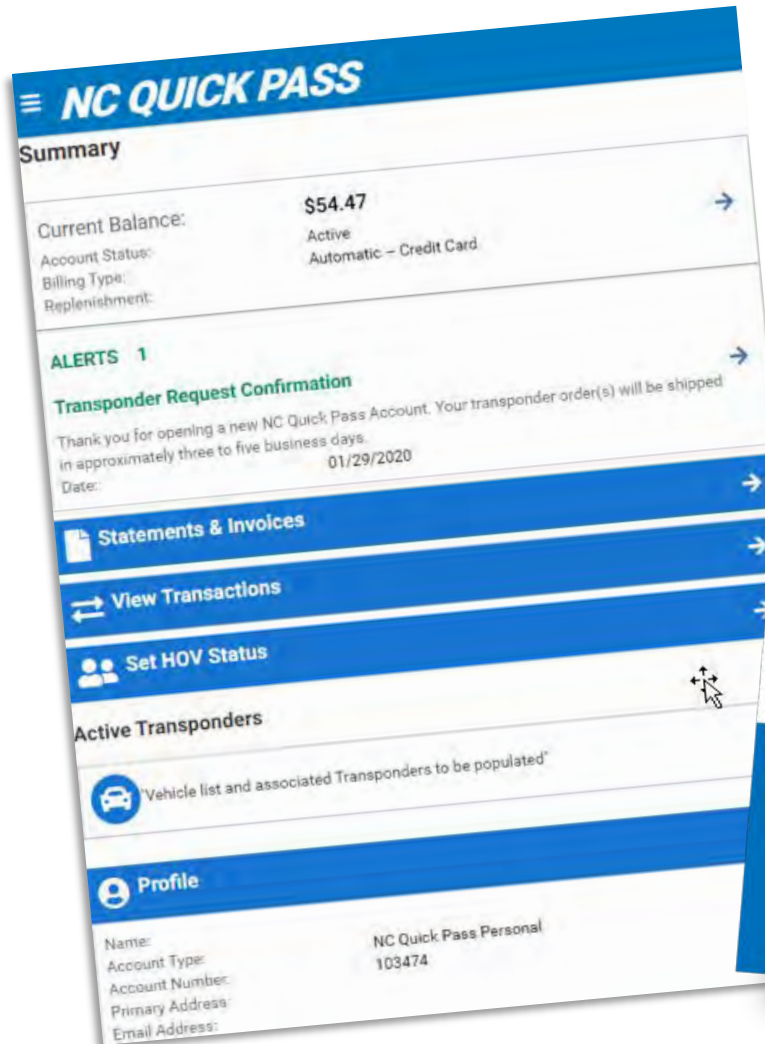
Current Website

- Multiple websites
- Outdated styling
- Difficult to navigate



New and Updated Website

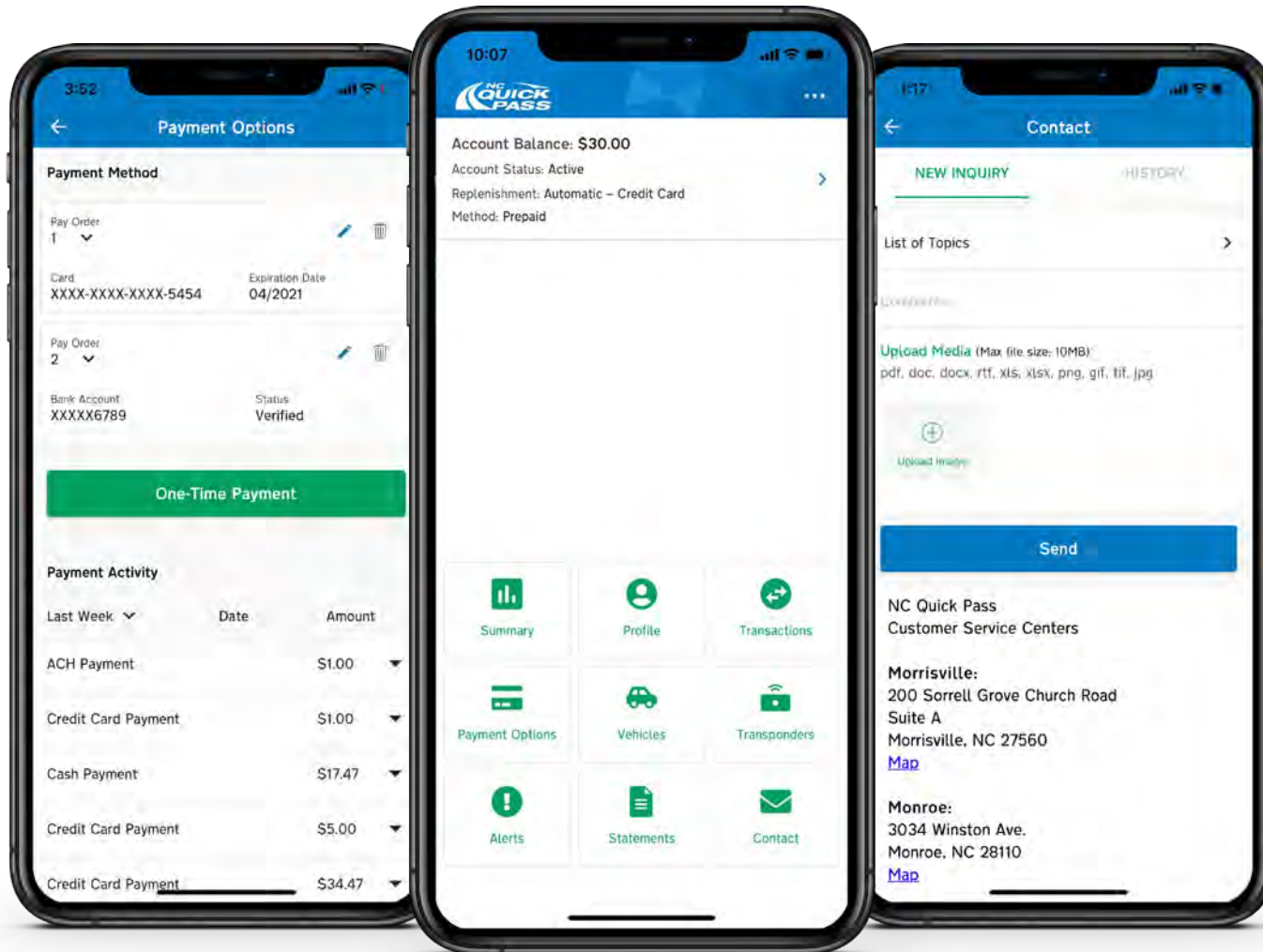
- Easy to navigate • New tools available • Driving customer to self serve



Toll Rate Calculator



Mobile App



Call Center Dashboards



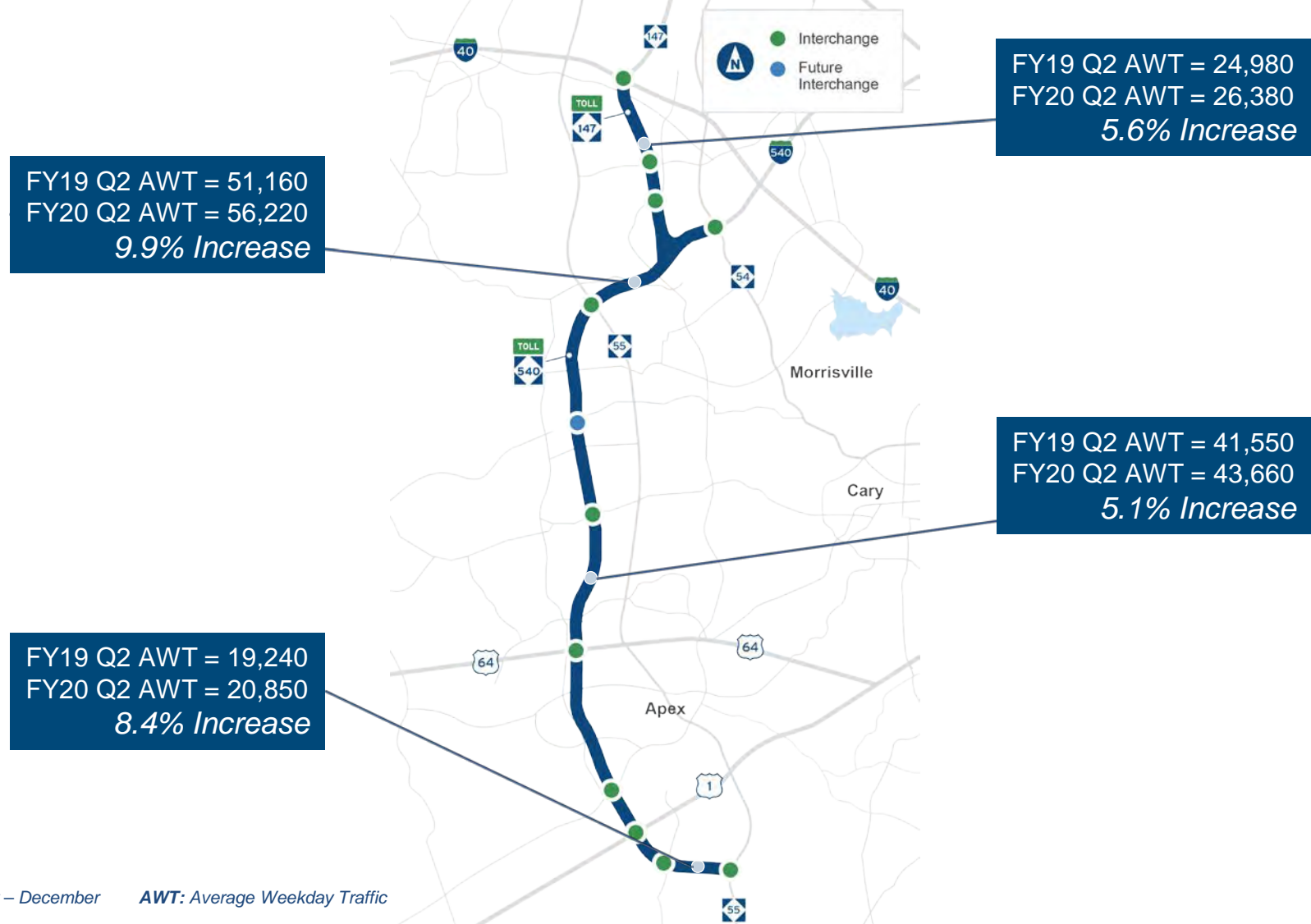
Roadway Operations Update



Dennis Jernigan, P.E.
Director of Highway Operations

Mainline Traffic Statistics

Triangle Expressway



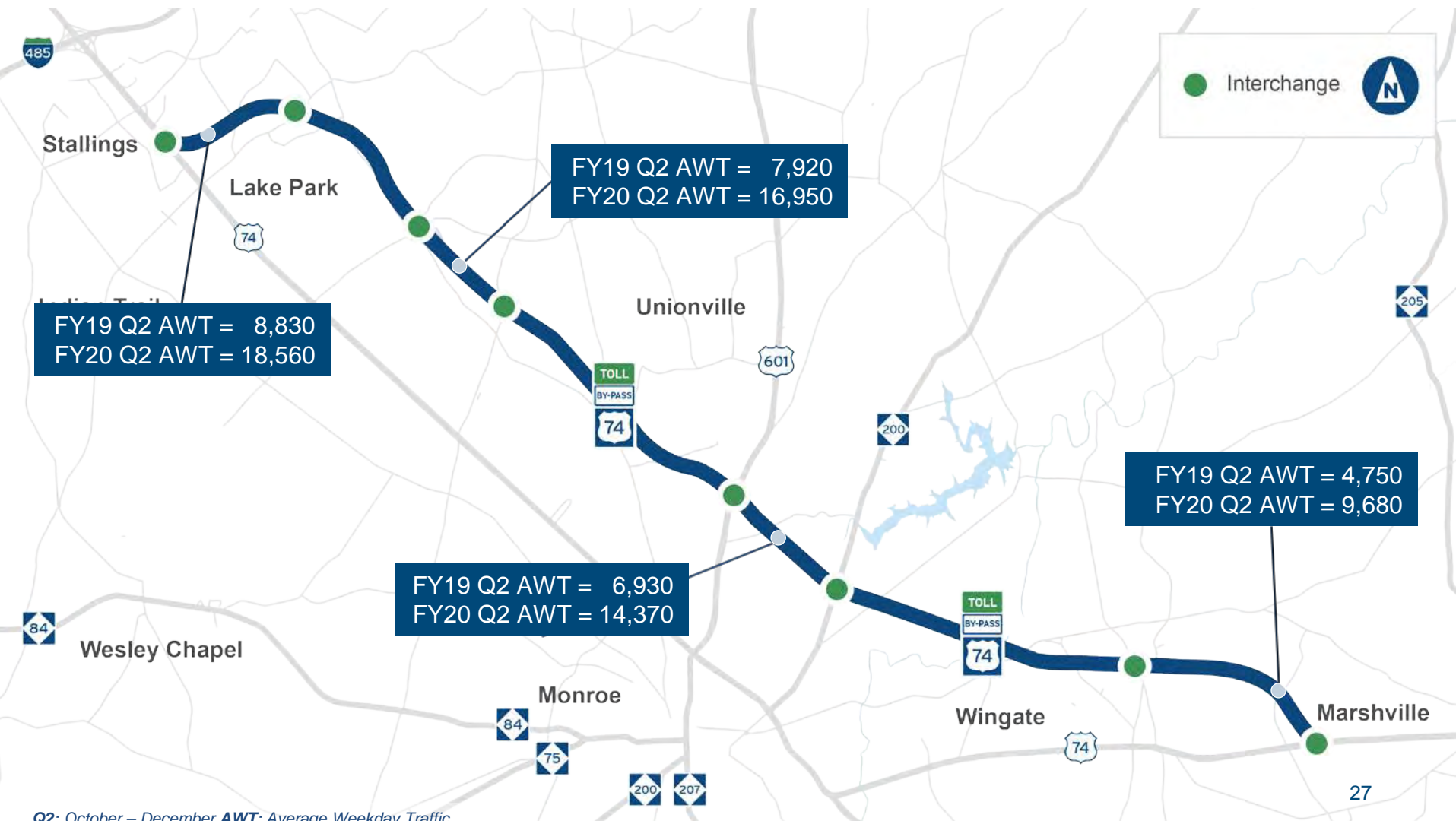
Roadway Maintenance Statistics

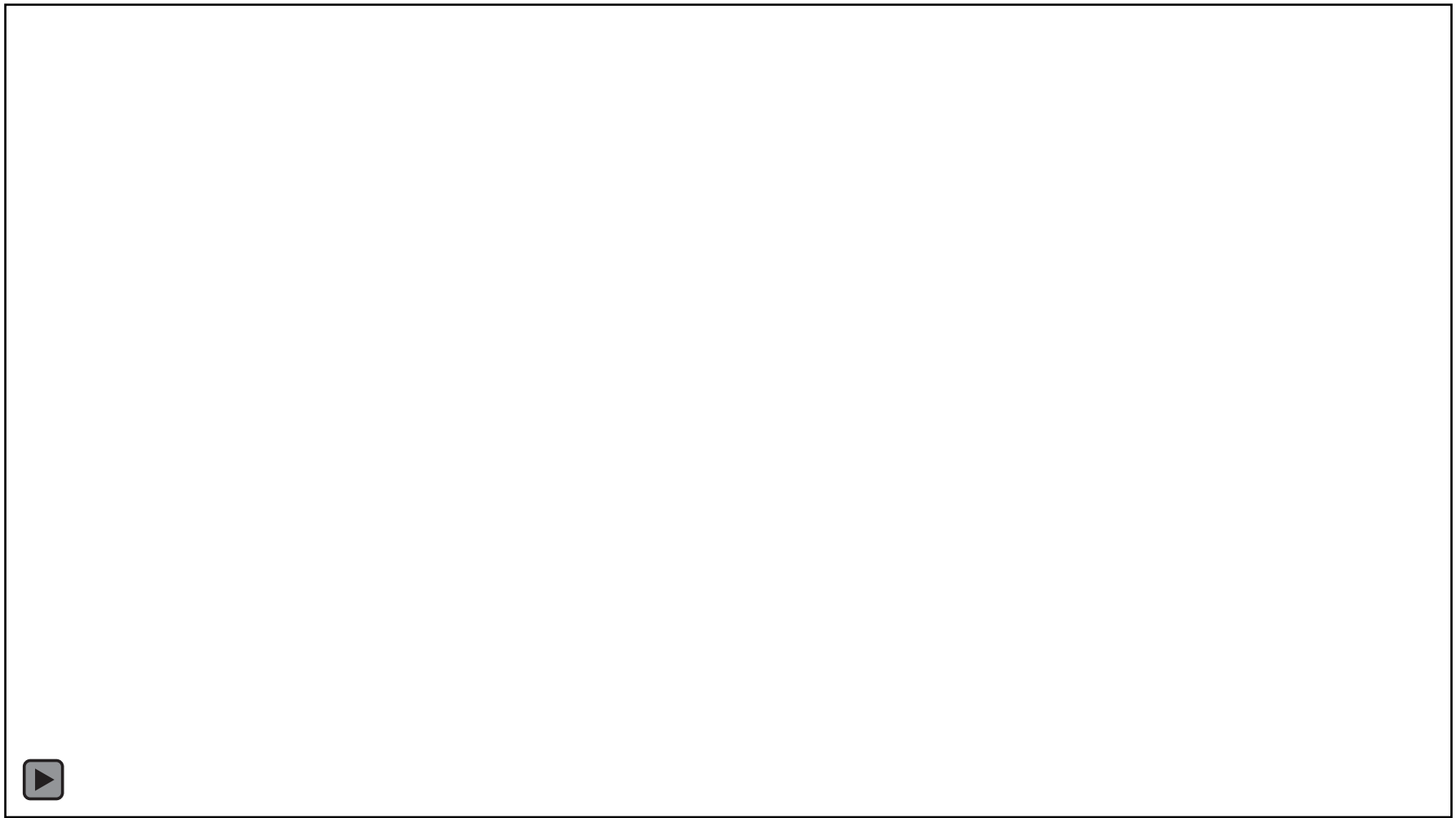
Triangle Expressway

	FY 2019 Q3	FY 2019 Q4	FY 2020 Q1	FY 2020 Q2	Rolling Rating
Road Surface	96.0	92.6	96.9	89.5	93.8
Unpaved Shoulders and Ditches	97.4	97.8	94.7	99.1	97.3
Drainage Structures	91.3	94.0	92.3	98.1	93.9
Roadside	92.8	92.8	94.7	96.2	94.1
Traffic Control Devices	92.1	87.9	86.6	90.9	89.3
Overall	93.7	92.1	92.5	93.6	93.0

Mainline Traffic Statistics

Monroe Expressway



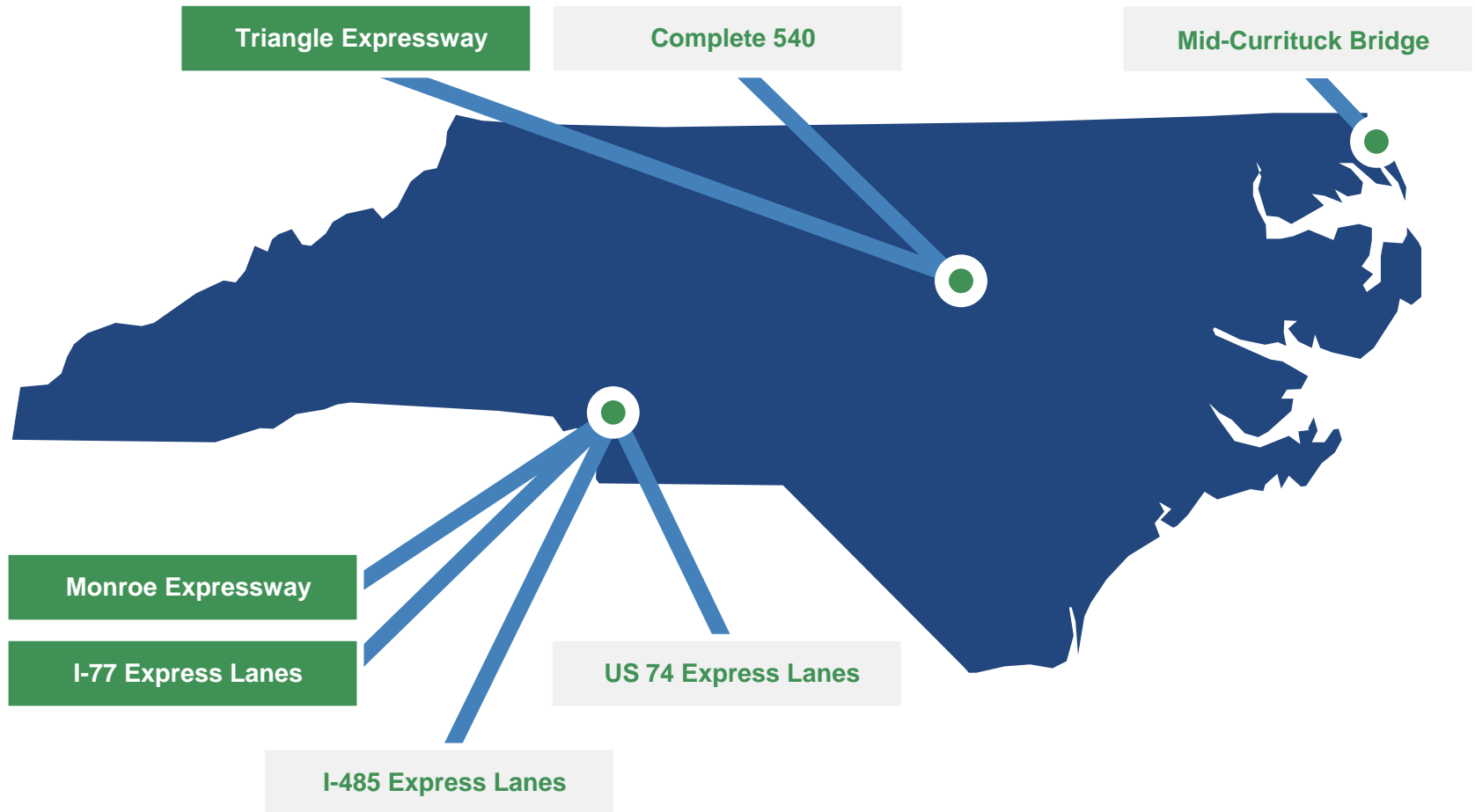


Turnpike Authority Projects



Rodger Rochelle, P.E.

Chief Engineer



*Feasibility Studies for toll or managed lanes projects in STIP are not included. *Total Project Cost from STIP (September 2019): Total Project Cost includes Prior Year Costs.





Raleigh Area



Triangle Expressway
Open to Traffic

- 1 **Morrisville Parkway Interchange**
Opening Early 2020
- 2 **Veridea Parkway Interchange**
Open to Traffic



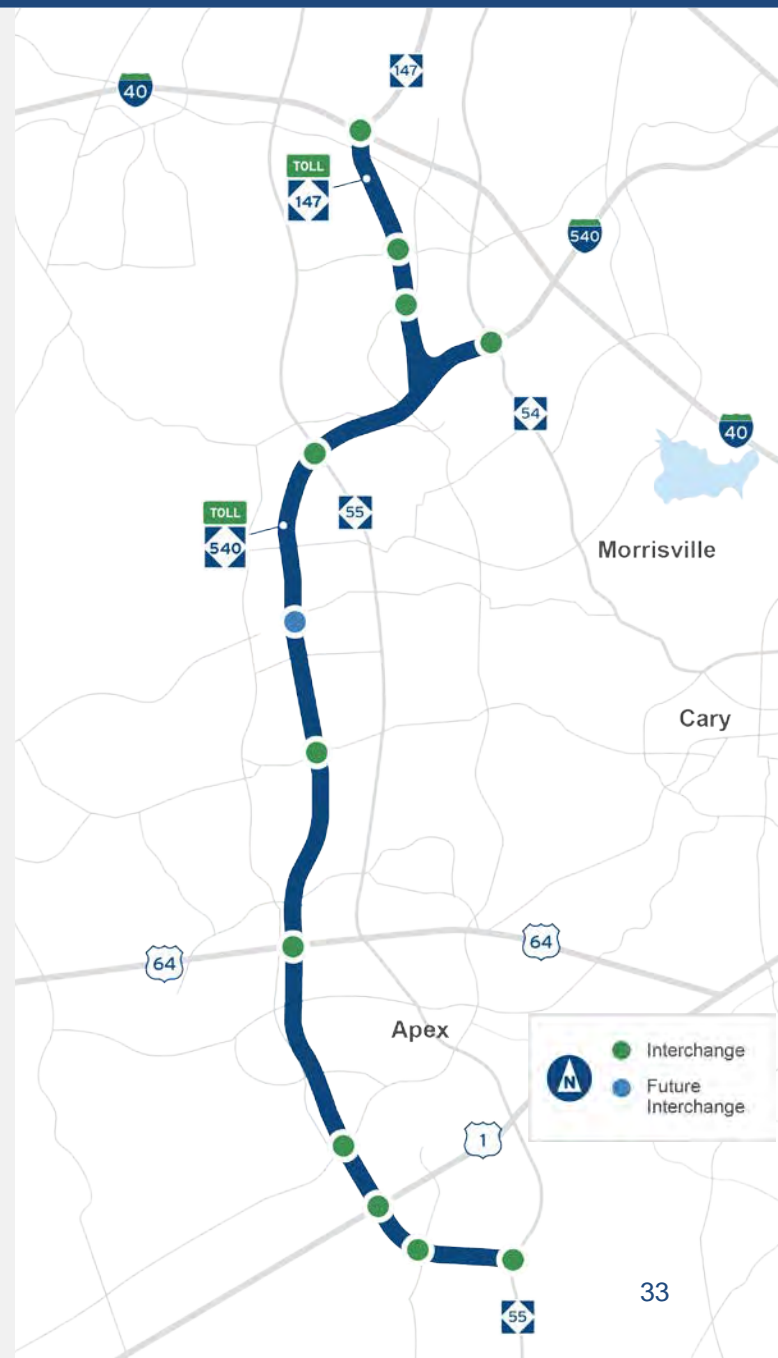
Complete 540 – Phase 1
Under Construction



Complete 540 – Phase 2

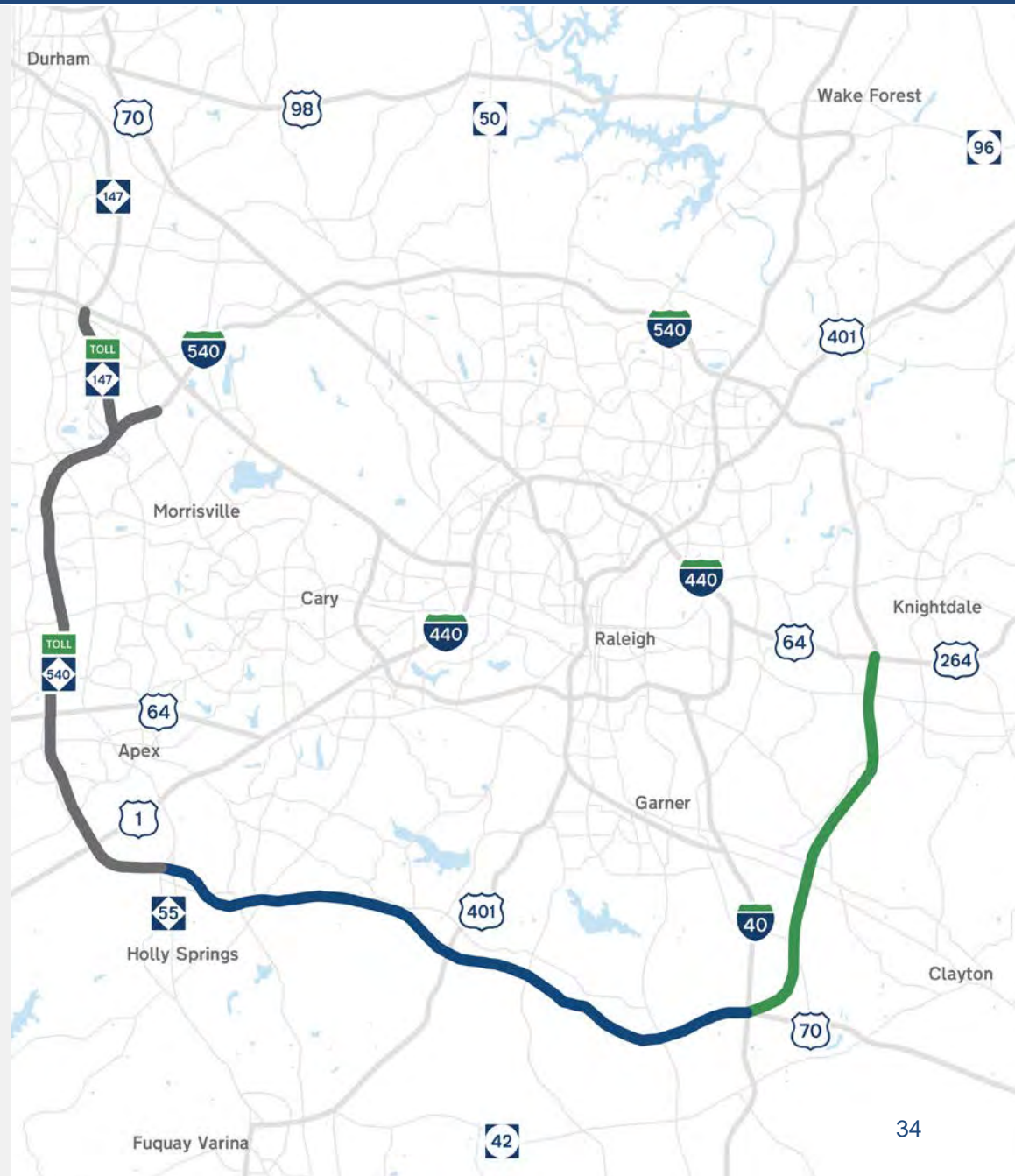
Triangle Expressway

- North Carolina's first modern toll road
- Fully opened to traffic January 2013
- All-Electronic Tolling (AET) facility
- Second AET facility in the United States
- Project cost: \$1.2 billion
- 18.8 miles between I-40 and N.C. 55 Bypass
- 11 interchanges and 20 AET tolling points



Complete 540

- STIP Projects R-2721, R-2828 & R-2829
- Phase 1 – R-2721 & R-2828
 - N.C. 55 Bypass to I-40
 - 17.8 miles of new roadway
- Phase 2 – R-2829
 - I-40 to U.S. 64 / U.S. 264 / I-87
 - 10.8 miles of new roadway
- Estimated project cost: \$2.2 billion
- Phase 1 expected to open to traffic in 2023



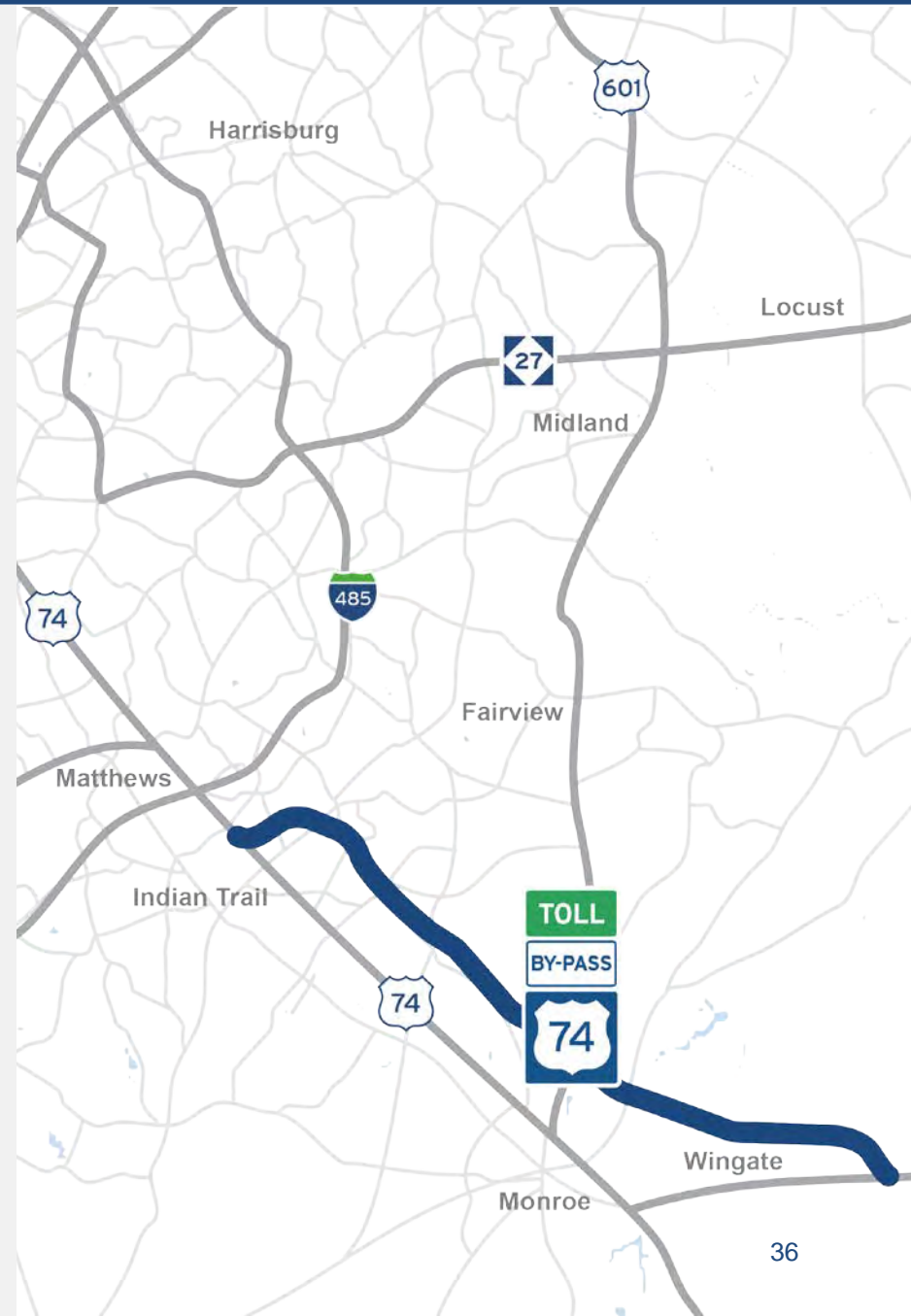


Charlotte Area

- Monroe Expressway**
Open to Traffic
- U.S. 74 Express Lanes**
- I-485 Express Lanes**
Under Construction
- I-77 North Express Lanes**
Open to Traffic
- I-77 South Express Lanes**

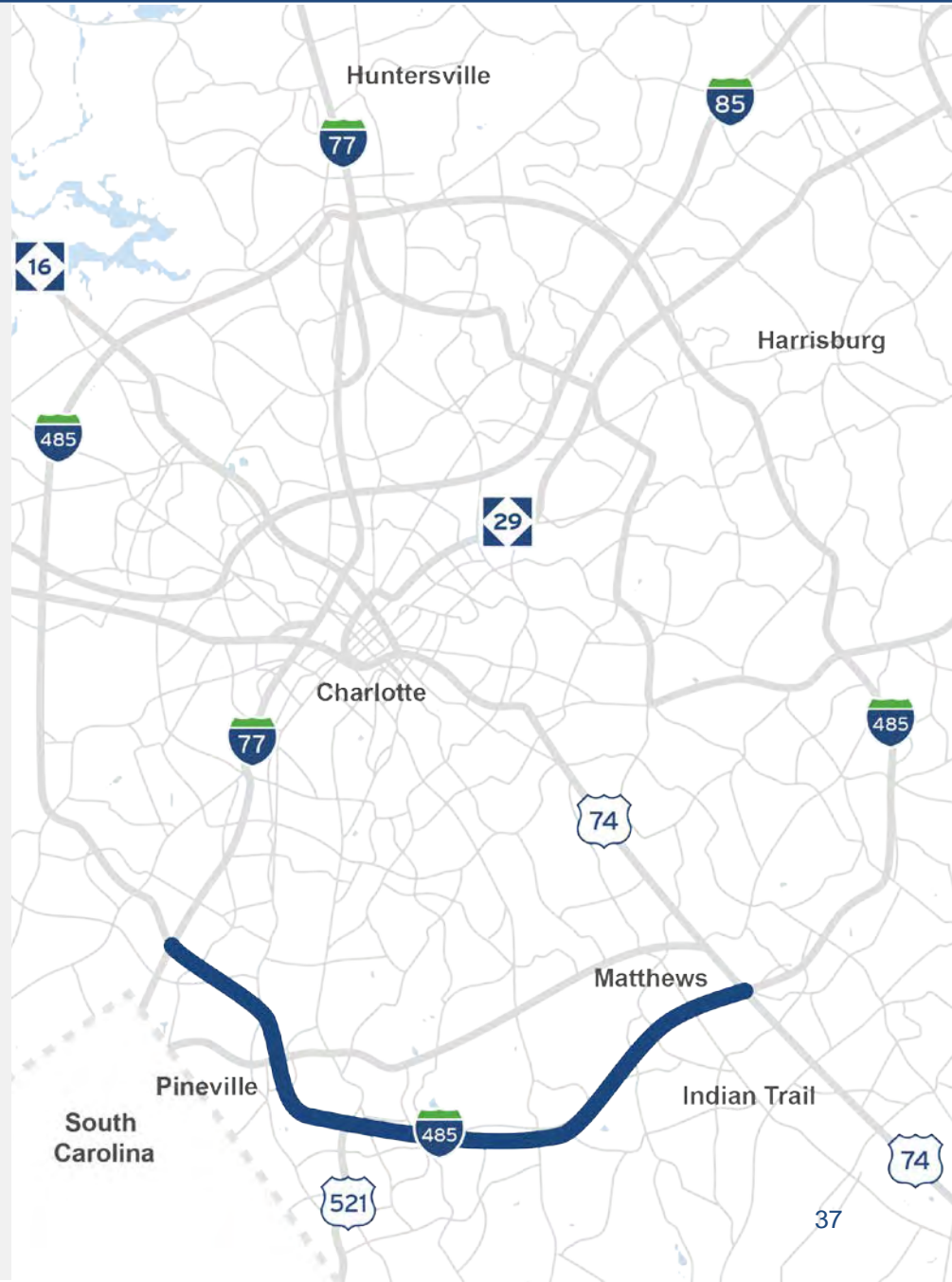
Monroe Expressway

- STIP Projects R-3329 & R-2559
- 19.8 miles of new roadway
- Project cost \$731 million
- All-Electronic Tolling (AET) facility
- Opened to traffic November 2018



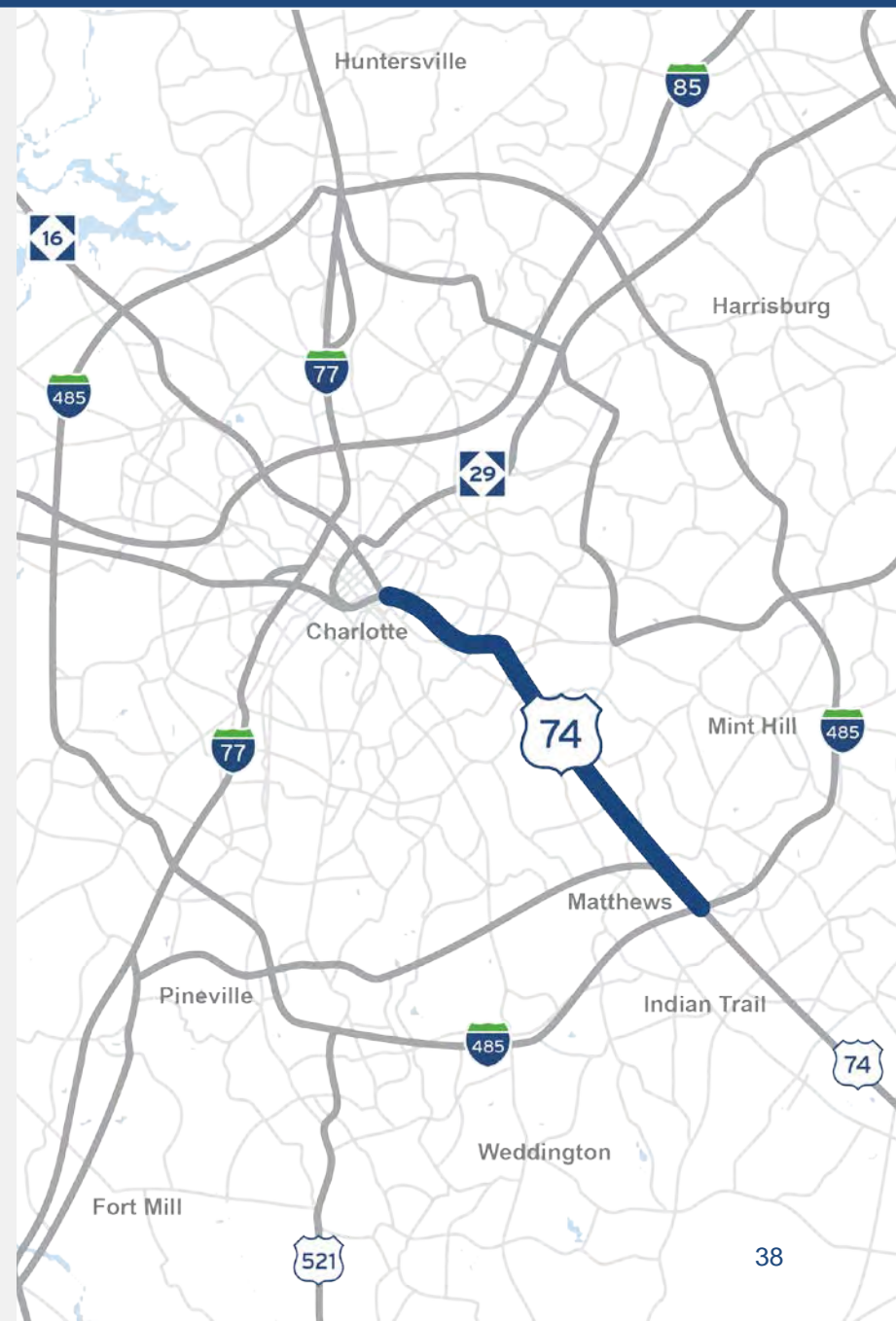
I-485 Express Lanes

- STIP Project I-5507
- Add one express lane in each direction between I-77 and U.S. 74
 - ~17 miles
- Extend third general purpose lane from Rea Road to Providence Road in both directions
 - No tolls will be added to the existing and new general purpose lanes
- Combine three other area projects with the I-485 project
- Construction cost: \$346 million



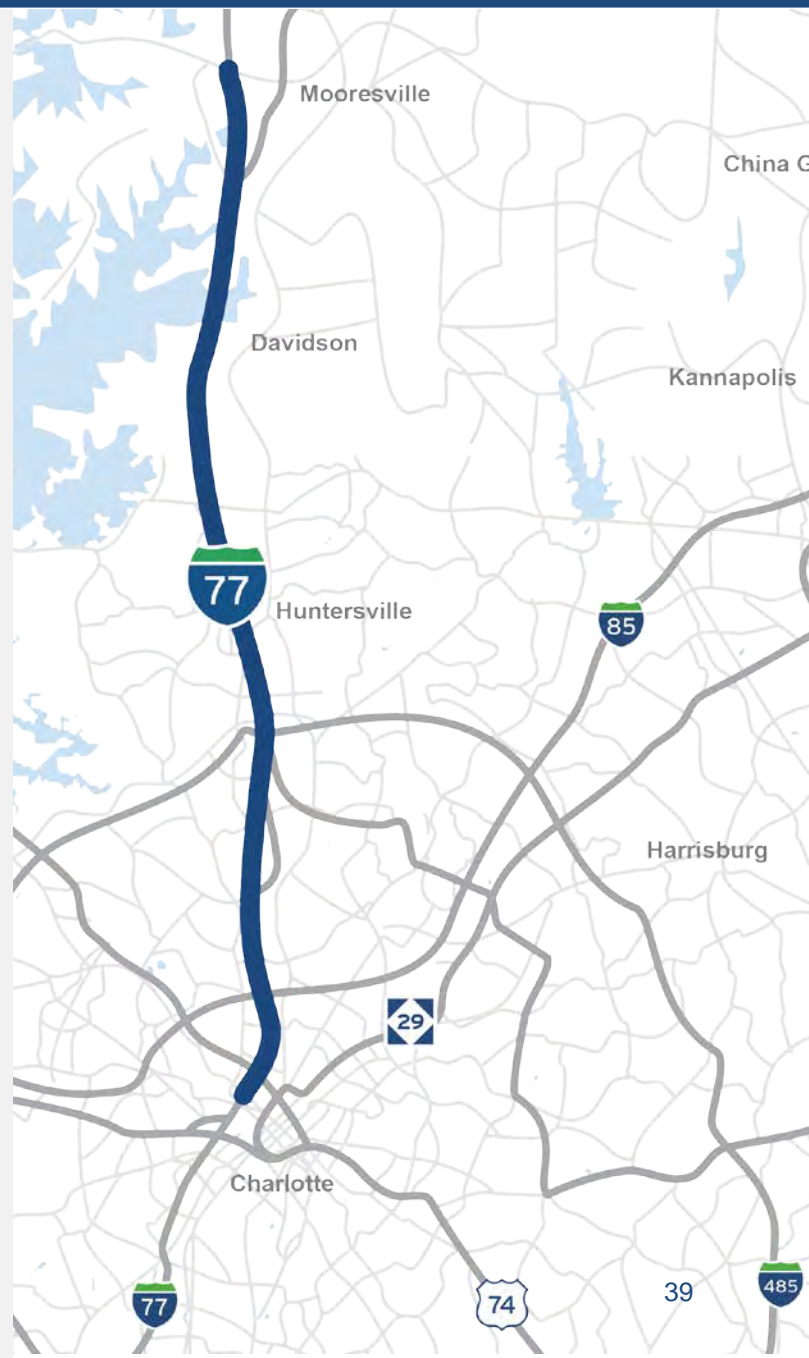
U.S. 74 Express Lanes

- STIP Projects U-6103 & U-2509
- U-6103
 - U.S. 74 from I-277 to west of Idlewild Road (5 miles)
 - Estimated project cost: ~\$90 million
- U-2509
 - U.S. 74 from west of Idlewild Road to I-485 (6.4 miles)
 - Estimated Project Cost: ~\$600 million



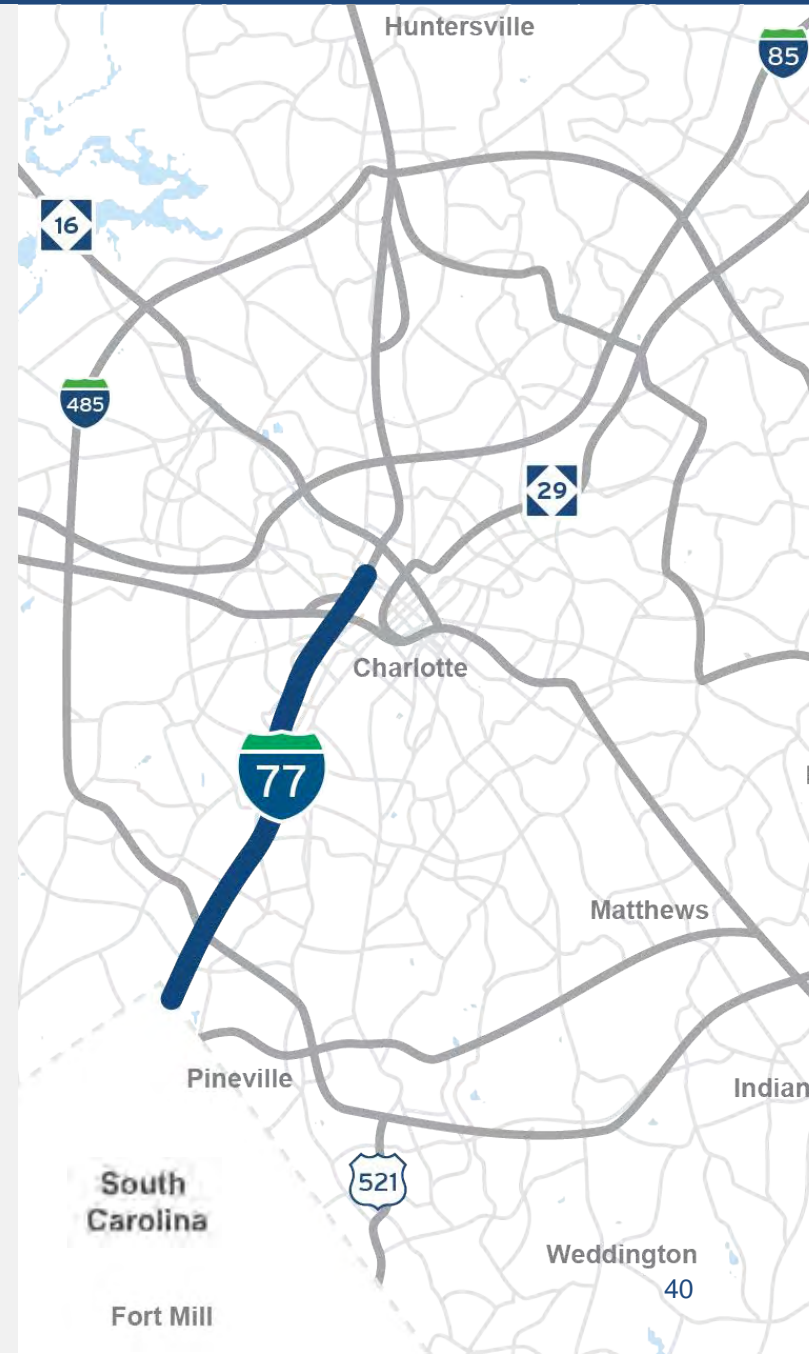
I-77 North Express Lanes

- STIP Projects I-3311C, I-5405 & I-4750AA
- 26 miles of express lanes
- Estimated project cost: \$647 million
- Northern portion of express lanes opened to traffic June 2019
- Remaining portion of express lanes opened to traffic November 2019



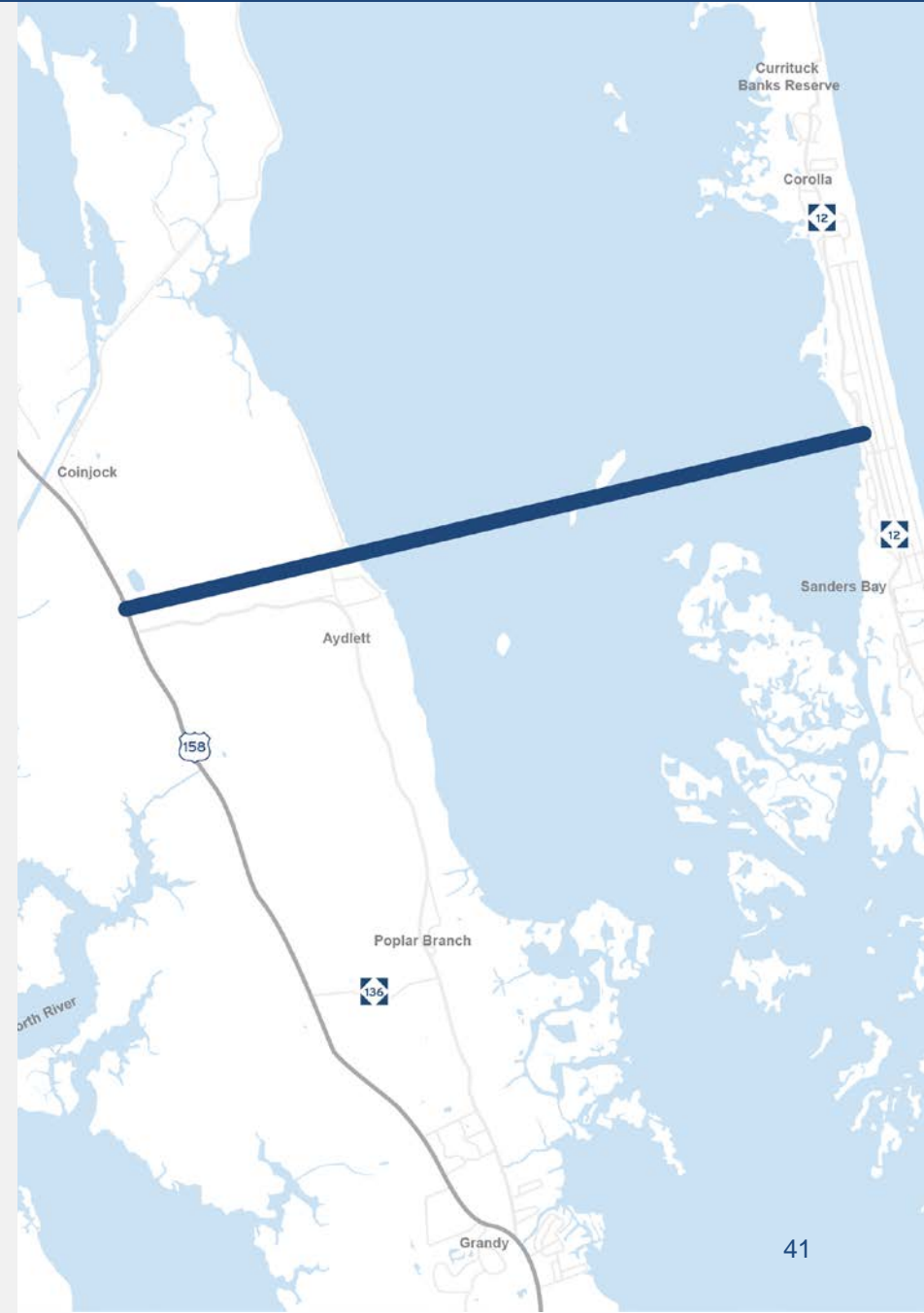
I-77 South Express Lanes

- STIP Project I-5718
- Construct 10 miles of express lanes
- I-77 from the South Carolina state line to I-277 / N.C. 16 (Brookshire Freeway)
- Estimated project cost: ~\$1.2 billion



Mid-Currituck Bridge

- STIP Project R-2576
- Seven-mile long project between U.S. 158 and the Outer Banks
 - Two-lane bridge spans Currituck Sound connecting Currituck County mainland with its Outer Banks
 - Two-lane bridge spans Maple Swamp on Currituck County mainland connecting Aydlett to U.S. 158
- Estimated project cost: ~\$500 million



Complete 540 Construction Update



Rodger Rochelle, P.E.

Chief Engineer

Complete 540

Three Contracts



STIP Segments

R-2721 (A&B) and R-2828

Design-Build Contracts

R-2828

- The Lane Construction Corporation / Blythe Construction, Inc. JV
- Lead design firm – WSP USA Inc.
- \$403.2M

R-2721B

- Flatiron Constructors, Inc. / Branch Civil, Inc. JV
- Lead design firm - HDR Engineering, Inc. of the Carolinas
- \$160.0M

R-2721A

- Flatiron Constructors, Inc. / Branch Civil, Inc. JV
- Lead design firm - Gannett Fleming, Inc.
- \$183.5M

Complete 540 Design

R-2828

- 8.6 miles
- 280 design submittals, including final roadway design plans, hydraulics design plans, MOT plans, structure design plans
- Construction plans roughly 70% complete

R-2721B

- 4.9 miles
- 110 design submittals, including final roadway design plans, hydraulics design plans, structure design plans
- Construction plans roughly 50% complete

R-2721A

- 4.3 miles
- 122 design submittals, including final roadway plans, hydraulics design plans, culvert survey reports
- Construction plans roughly 30% complete

Complete 540 Right of Way

R-2721A

- 212 parcels
- 153 parcels settled
- 59 parcels remaining

R-2721B

- 221 parcels
- 167 parcels settled
- 54 parcels remaining

R-2828

- 209 parcels
- 48 parcels settled
- 161 parcels remaining



Complete 540 Permitting

401 Water Quality Certification

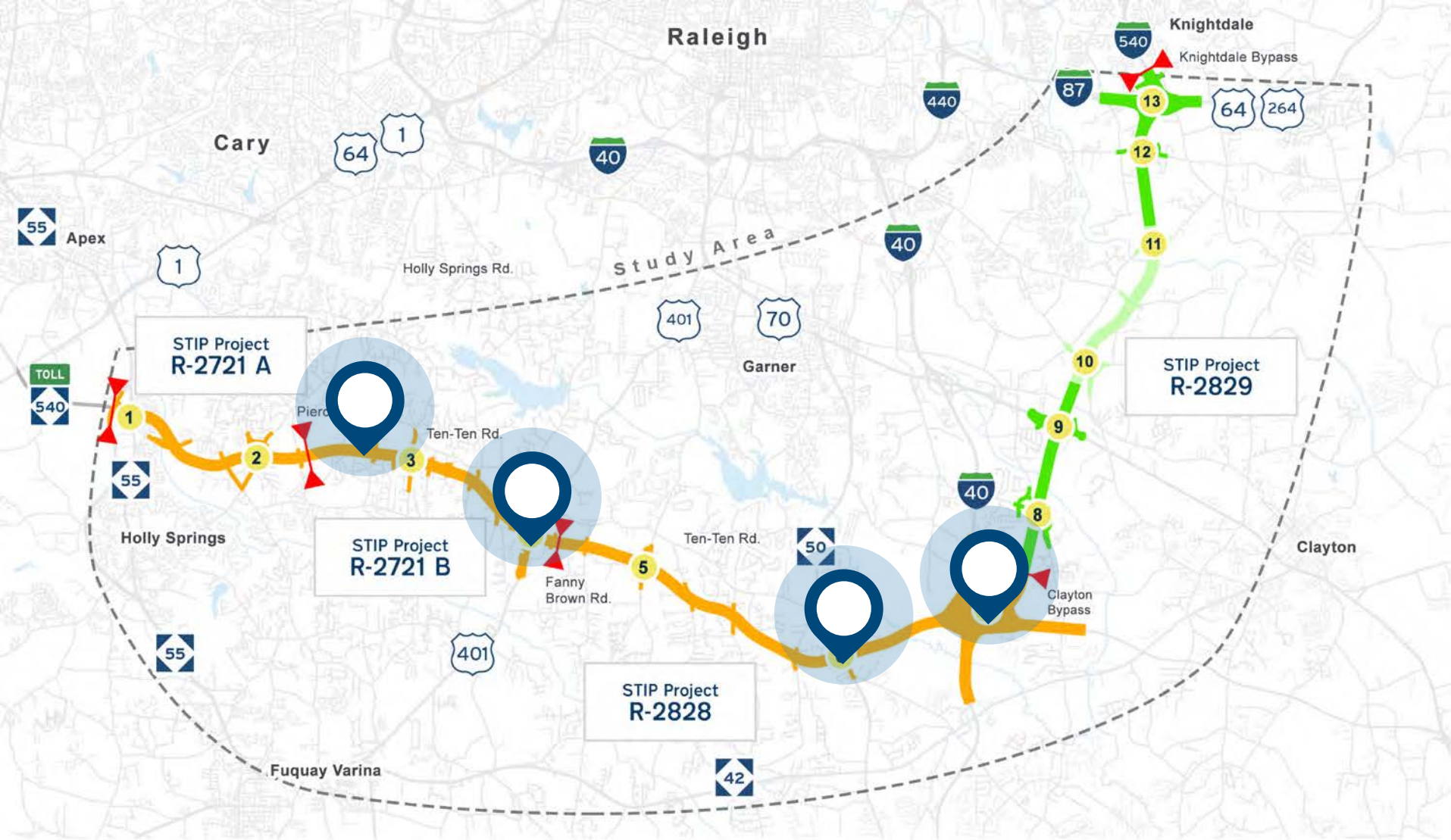
- NC Department of Environmental Quality-Division of Water Resources
- Issued February 15, 2019

404 Permit

- US Army Corps of Engineers
- Issued October 24, 2019

Permit Modifications

- Frequent agency coordination meetings
- Permit modification will reflect final design details and result in reduced environmental impacts
- Submitted permit modification package for R-2828 and R-2721B early December 2019
- Anticipate submittal of permit modification package for R-2721A in February 2020



Communications & Public Relations Update



Kimberlee Poulton

Public Involvement Director

Logen Hodges

Senior Public Involvement Representative

What We've Done

2018-2019 Impact



44K

Individuals reached at
events

130

Event attended

23M

Marketing Campaign
Impressions

56,228

Marketing campaign clicks

1.7M

Nextdoor
users reached

14,089

Neighborhoods reached



I-485
Corridor Improvements




NOTE: Existing and Extended General Purpose lanes will not be tolled

Pre-Construction Open House

Where
Endhaven Elementary School
6815 Endhaven Lane
Charlotte, NC 28277

When
Stop by Thursday, June 27
anytime between
noon and 7:00 p.m.



Want more information on the project?

Visit: publicinput.com/i-485-Charlotte
Call: 1-800-254-0498
E-mail: i-485expresslanes@rsandh.com

Public Meetings



Conferences

What We're Doing



Change your view

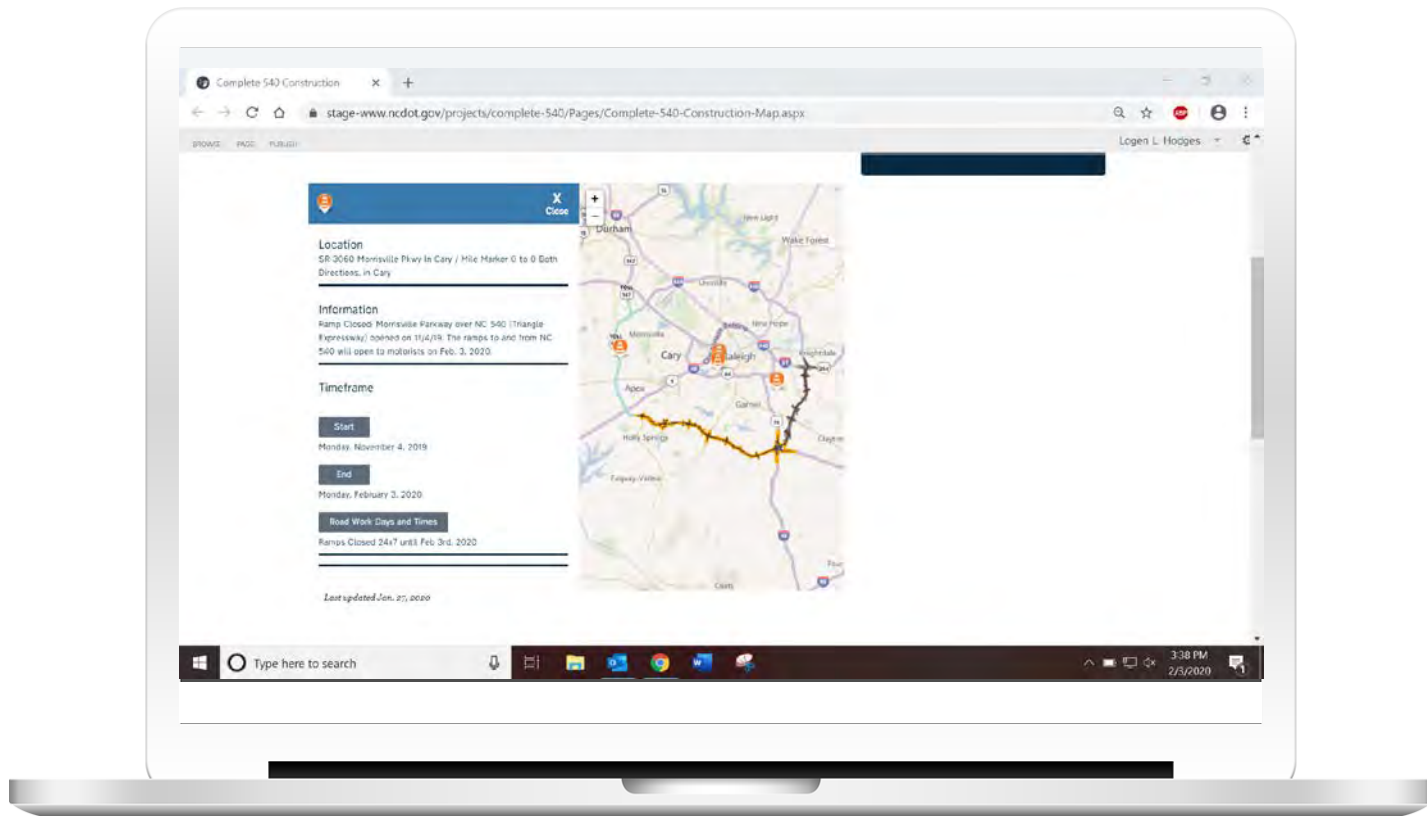
Marketing



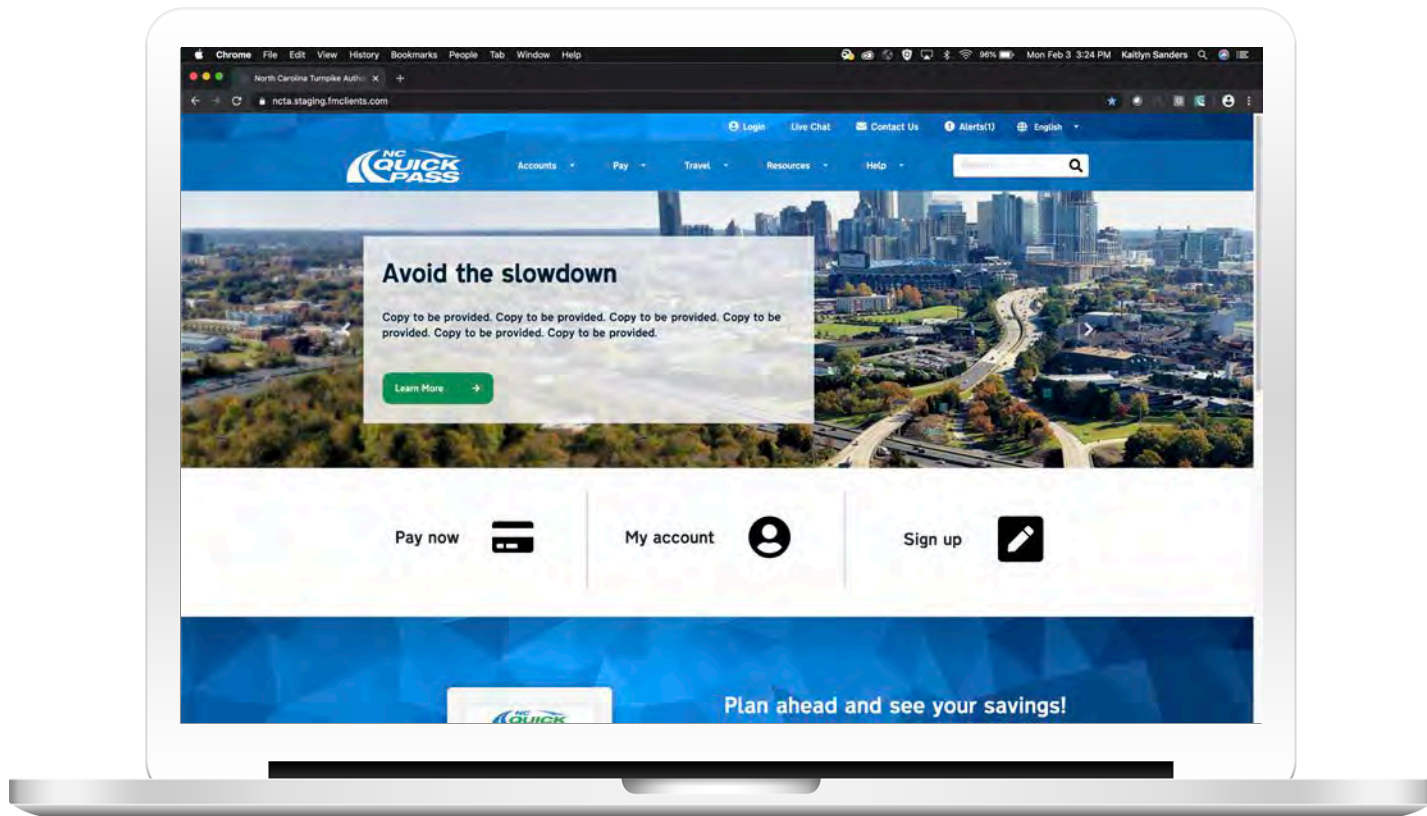
The background features a dark blue field with abstract, wavy patterns of light blue and green dots. These dots are arranged in flowing, undulating lines that create a sense of movement and depth, resembling a digital or particle-based aesthetic.

Where We're Going

Interactive Maps



Improve Websites



Utilize Data



Thank You!

