## North Carolina Turnpike Authority

Operations Committee Meeting May 22, 2025



### **Operations** Committee

### **Other Board Members**



Joey Hopkins Board Chair



### Montell W. Irvin Operations Committee Chair



Dr. Pamela Gibson Senegal Operations Committee Member

James 'Jim' Walker Vice Chair of the Board



Sam Hunt IV Operations Committee Member



Charles 'Chuck' L. Travis III Operations Committee Member



Robert D. Teer Jr. Secretary & Treasurer of the Board



John Adcock Board Member



Larry Hall Board Member

## **Executive Director Opening Comments**

J.J. Eden

**Executive Director** 

### Complete 540 Phase 1 Commemorative Plaque

#### COMPLETE 540 PHASE 1 THE EXTENSION OF THE TRIANGLE EXPRESSWAY

#### SEPTEMBER 25, 2024

THIS PLAQUE HONORS THE DEDICATION AND COLLABORATION OF ALL THOSE WHO CONTRIBUTED TO THE SUCCESSFUL COMPLETION OF PHASE 1 OF THE COMPLETE SAO PROJECT.

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION STAFF

NORTH CAROLINA TURNPIKE AUTHORITY STAFF AND CONSULTANTS

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION NORTH CAROLINA TURNPIKE AUTHORITY

SECRETARY OF TRANSPORTATION

JOEY R. HOPKINS

JAMES 'J.J.' EDEN

EXECUTIVE DIRECTOR

COMPLETE 540 PHASE 1

THE EXTENSION OF THE TRIANGLE EXPRESSWAY SEPTEMBER 25, 2024

THIS PLACES HONORS THE DEDICATION AND COLLABORATION OF AN THOSE NEW CONTRIBUTES TO THE SUCCESSFUL CONFLICTION OF PHASE 1 OF THE COMPLETE 540 PROJECT.

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION STAFF NORTH CAROLINA TURNPIKE AUTHORITY STAFF AND CONSULTANTS

2024 BOARD OF DIRECTORS

SPECIAL GRATITUDE TO CAMPO, PHWA. BTA AND THE ELECTED OPPICIALS MNO MELPED MAKE THIS PROJECT POSSIBLE.

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JAMES "J.J." EDEN

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#### 2024 BOARD OF DIRECTORS

JOEY R. HOPKINS JAMES 'JIM' WALKER ROBERT D. TEER JR. CHAIMMAN VICE CHAIMMAN SECONTANT AND TREASUMEN

JOHN ADCOCK DR. PAMELA SENEGAL SAM HUNT IV MONTELL IRVIN CHARLES "CHUCK" TRAVIS III

PARTNERS

FLATIRON-BRANCH JV LANE-BLYTHE JV

GANNETT FLEMING HDR WSP

HNTB LOCHNER SUMMIT KAPSCH

SPECIAL GRATITUDE TO CAMPO, FHWA, RTA AND THE ELECTED OFFICIALS WHO HELPED MAKE THIS PROJECT POSSIBLE.

# **Staff Recognition**

# **Chief Engineer Update**

Patrick Norman, P.E.

Chief Engineer

## Welcome Kevin Bridges!

Western Director of Highway Operations

## Complete 540 Phase 1



## **Final Phase 1 Construction**

### Anticipated Late Spring / Early Summer

- R-2721A
  - Y-line finishing work
  - Final punch list items
- R-2721B
  - Y-line finishing work
  - Final punch list items
- R-2828
  - Permanent striping
  - Mainline and Y-line finishing work

### Toll Site T36 Milestones

Temporary System Milestones	Date
Vendors Contacted about Temporary System	July 31, 2024 – August 4, 2024
Proposal for Temporary System Sent	August 16, 2024
Letter of Intent Issued to Blissway	August 28, 2024
Construction of Temporary System Began	September 10, 2024
Contract with Blissway Signed	September 11, 2024
Integration between Kapsch & Blissway Started	September 18, 2024
Construction of Temporary System Completed	September 20, 2024
Integration between Kapsch & Blissway Completed	October 10, 2024

Replacement Milestones	Date
Toll Gantry – Box Truss Installation	January 25, 2025
Toll Gantry – Spanning Truss and Cable Tray Installation	January 25, 2025
Completion of Equipment Installation	March 28, 2025
Completion of System Tuning / Configuration	April 18, 2025
Completion of System Testing	April 23, 2025
Go-Live with New T-36 System	April 30, 2025

### T-36 Completion





## Complete 540 Phase 2

### Complete 540 Phase 2 Turbine



### Complete 540 Phase 2 Site 5



### Complete 540 Phase 2 White Oak Road



### Complete 540 Phase 2 U.S. 70



Complete 540 Phase 2 Rock Quarry Road



### Complete 540 Phase 2 Poole Road



### Complete 540 Phase 2 <sup>I-87</sup>



### Complete 540 Phase 2

Anticipated Project Schedule





## **Phase 2 Public Presentations**

### Contract Administration Workshop March 13

Durham Realtors March 18

Raleigh Engineers Club April 21

# **Highway Operations**

### Triangle Expressway

Maintenance Rating Program (MRP)

Element	Q2 2024 Rating	Q3 2024 Rating	Q4 2024 Rating	Q1 2025 Rating	Rolling Rating
Road Surface	98.9	100.0	98.0	100.0	99.0
Unpaved Shoulders and Ditches	98.8	100.0	100.0	100.0	98.8
Drainage	93.9	92.5	97.0	95.6	95.8
Roadside	94.4	96.7	96.9	99.1	95.5
Traffic Control Devices	93.3	87.8	92.2	89.5	92.6
Overall MRP Performance Rating	95.7	94.6	96.2	96.0	96.0

### Monroe Expressway

Maintenance Rating Program (MRP)

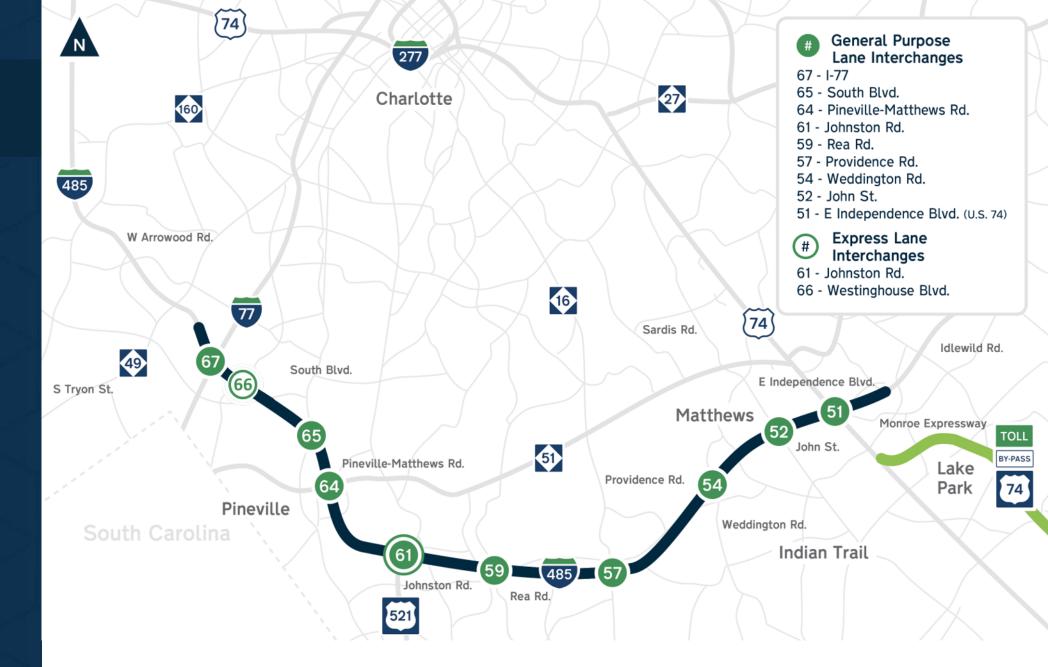
Element	Q2 2024 Rating	Q3 2024 Rating	Q4 2024 Rating	Q1 2025 Rating	Rolling Rating
Road Surface	98.8	100.0	95.7	96.7	97.8
Unpaved Shoulders and Ditches	100.0	98.7	99.3	100.0	99.5
Drainage	95.3	95.6	95.8	100.0	96.7
Roadside	98.2	98.4	95.3	97.7	97.4
Traffic Control Devices	95.7	96.8	96.8	95.4	96.2
Overall MRP Performance Rating	97.4	97.9	96.4	97.4	97.3

## I-485 Express Lanes Update

### Brett Canipe, P.E.

Division Engineer, Highway Division 10

I-485 Express Lanes





## **General Construction Update**

## **Division 10 Construction** Johnston Road Interchange – Direct Connect Flyover

2

8

R

### Division 10 Construction Ballantyne Commons Parkway Bridge

### Division 10 Construction Weddington Road Interchange

30

### **Division 10 Construction** E. John Street Interchange

### **Division 10 Construction**

Toll Site 4.2 Near Weddington Road – 8 of the 10 Toll Sites are Available to Toll Integrator

## Communications & Marketing Update

### Kate Ford

Deputy Director of Marketing & Creative

## Welcome Mauri Terry!

**Public Relations Manager** 



## Marketing & Outreach

### Save 50% Paid Media Campaign

### **Tactics**

- Display
- SEM
- Social

### Results

- 22K new and converted accounts
- 1,672 transponders sold
- 3.5M web sessions

### **Future Campaigns**

Continuing SEM between campaigns





#### Smishing

#### Tactics

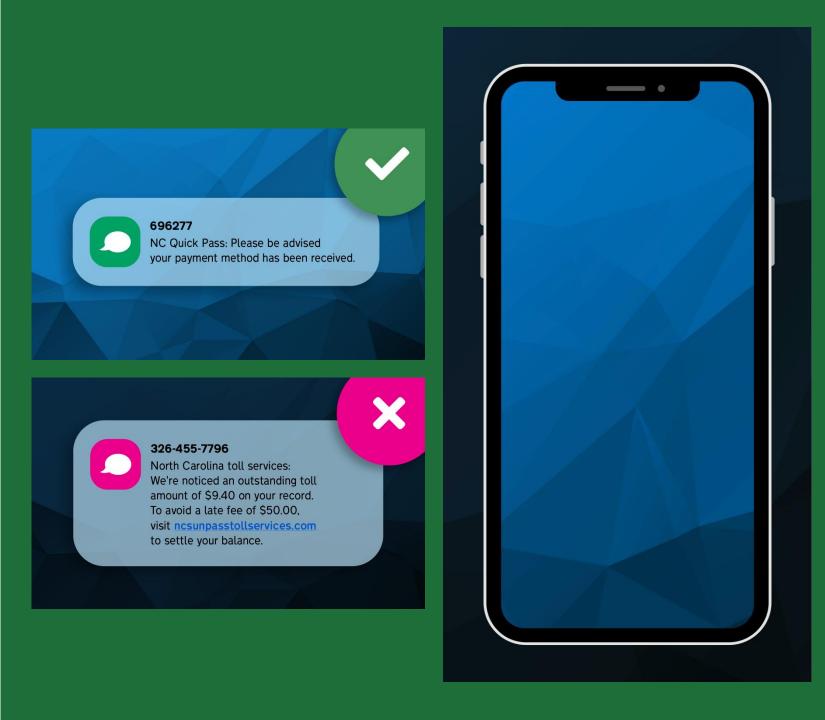
- Website alert
- Webpage
- Social posts
- Email
- Press releases

#### Partnerships

- NC Attorney General
- Federal Trade Commission
- Other agencies

#### Media Coverage

• 86 stories





#### Retail Program as of April 22, 2025

#### Locations

52 locations

#### New partnerships

- Speedway
- License Plate Agencies

#### Purchased from retailers

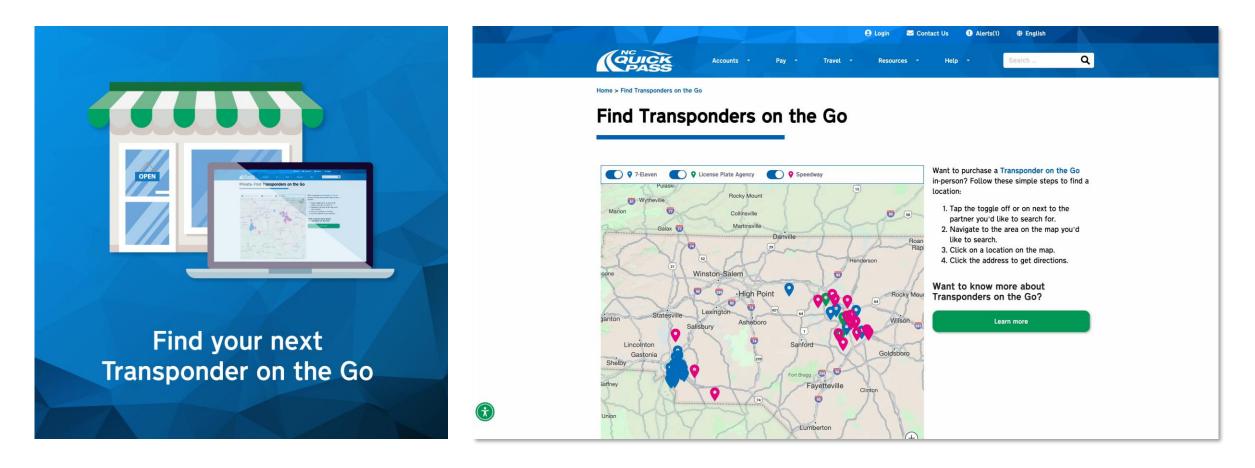
Over 25K transponders



## Transponder on the Go



### **Retail Interactive Map**



#### ncquickpass.com/find-on-the-go

## **Public Outreach**

### **New NCTA Materials**



#### North Carolina Turnpike Authority

Keeping Pace With North Carolina's Future



#### Since 2002, the North Carolina Tumpike Authority

**NCTA Overview** 

(NCTA) has provided drivers with more transportation options, one project at a time. The North Carolina General Assembly enacted Session Law 2002-133. House Bill 644, authorizing public toll roads and bridges n North Carolina and the creation of NCTA.

Per state law, local planning organization must support tolling for a project to move forward. Currently, North Carolina's toll roads serve more than 2 million customers annually.

#### **Open to Traffic**

NCTA operates two toll facilities, the 36.8-mile Triangle Expressway in the Raleigh area and the 19.8-mile Monroe Expressway in the Charlotte area. Both projects provide reliable travel times for commuters, families and businesses throughout their regions.

NCTA also provides NC Quick Pass account management, billing and customer service for the 27mile I-77 North Express Lanes in the Charlotte area.



#### Under Construction & Under Development

Two toll projects are currently under construction. NCTA's largest construction project, Complete 540, is being built in two phases. Phase 1 extends the Triangle Expressway approximately 18-miles from the existing corridor at N.C. 55 to I-40/U.S. 70 (future I-42). This portion of the roadway opened to traffic on Sept. 25, 2024. Phase 2 of Complete 540 will add approximately 10-miles, completing the 540 outer loop around the greater Raleigh area.

The I-485 Express Lanes will add one express lane in each direction for approximately 17-miles between I-77 and U.S. 74 in southern Charlotte. The project includes an additional general-purpose lane in each direction from Rea Road to Providence Road.

Three projects are currently under development, the Mid-Currituck Bridge, U.S. 74 Express Lanes and I-77 Express Lanes South. April 2025 How a Toll Project is Built

The North Carolina Department of Transportation (NCDOT) is responsible for the second-largest state-maintained road network in the United States. Most of NCDOT's funding comes from the state gas tax, the state highway use tax and federal funds.

In 2002, the North Carolina General Assembly recognized that those traditional funding sources weren't enough to keep up with growth in the state. Therefore, they created the North Carolina Turnpike Authority (NCTA) to support the study, planning, development, construction, operation and maintenance of toll projects in the state-maintained road network.



Toll projects make up a small percentage of North Carolina's transportation network but have a tremendous impact.

> Nearly 100,000 drivers use North Carolina's toll facilities each day

Tolling helps communities that request them to build projects faster and provide more reliable travel times for drivers

#### NORTH CAROLINA Turnpike Authority

ncdot.gov/turnpike (X) @NCTurnpike 💿 @NorthCarolinaTurnpikeAuthority



#### I-485 Express Lanes

Toll project including one express lane in each direction between I-77 and U.S. 74

#### Project Overview

The I-485 Express Lanes project will add one express lane in each direction along I-485 between I-77 and U.S. 74 (Independence Boulevard), providing travel time reliability and improving traffic flow in this critical transportation corridor. The project will also add one general-purpose lane in each direction along I-485 between Rea Road and Providence Road.

In coordination with other projects in southern Mecklenburg County, this project will serve as part of a larger network of express lanes offering drivers the option of more reliable travel times.

To minimize the duration of construction along the project corridor, three other projects will also be built at the same time as the I-485 Express Lanes:

- · Ballantyne Commons Parkway
- bridge widening · New interchange at
- Weddington Road
- · John Street interchange improvements



- · Improved mobility through the I-485 corridor · Improved design elements and additional general-purpose lane
- on I-485
- · Option for more reliable travel times · Toll funding to help with maintenance, operations and future
- improvements · Direct connection to express lanes from Johnston Road and
- Westinghouse Boulevard · Charlotte Area Transit System (CATS) vehicles travel on the
- express lanes toll-free

March 2025

## Toll Technology Update

Manish Chourey

Chief Technology Officer

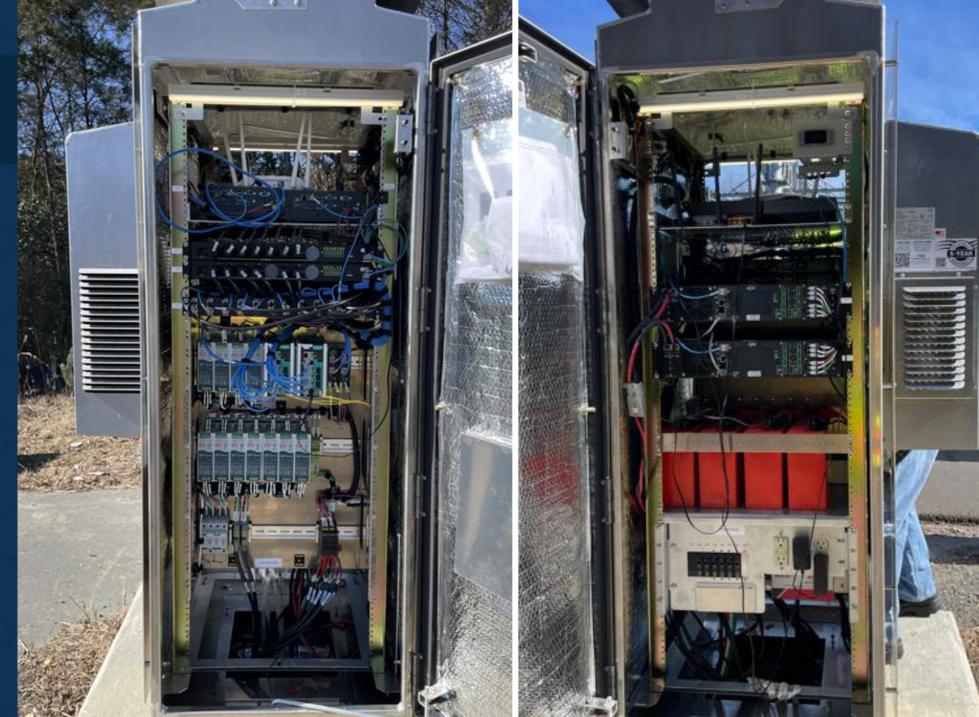


## I-485 RTCS Project Status

#### **Installation Activities**

- Site turnover from Design Build to Indra
  - AET 4.1 turned over to Indra February 2025
  - AET 3.2 turned over to Indra March 2025
  - AET 4.2 turning over to Indra June 2025
- Installation progress by Indra
  - AET 4.1 (A07) installed March 2025
  - AET 3.2 (A06) installed April 2025
  - AET 4.2 (A08) installation started April 2025
- Testing Progress by Indra
  - A02 tested March 2025 (Onsite Installation Testing)
  - Site Installation Testing for the remaining 8 sites began in May 2025

#### Installed toll equipment cabinet at AET 2.1 (A03)







#### Indra's user interface for detailed transaction review

Transactions Viewer

olling point 102	EL.	Transit ID 2504020000003603	Date and time 04/10/2025 2:08:12 AM
License Plate ima	oges Video		
Image Editor		2.00	
Brightwess			
Contrast			
Saturation		-	
Sharpness			
Gray Scale			
		-	
Luminosity		-	
Rotation	c		
Zoom	9		
Inversion			
Contract Street			TVE
D R	eset		IKE

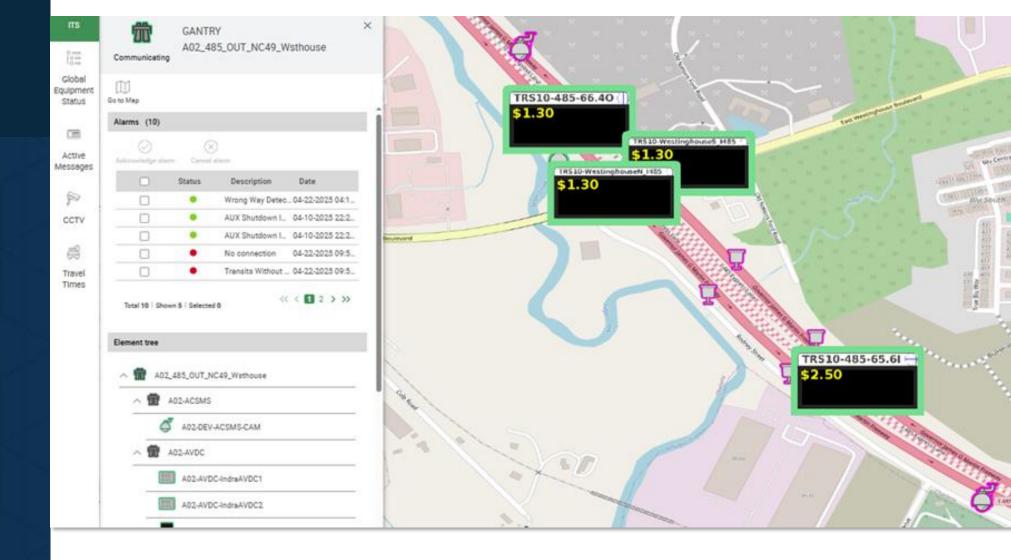
B Screenshot TRH sending details TRH Id Sending Date Sending Status 04/10/2025 2:10:53 **Ok** 57630 AM Vehicle Redh. Rear Redundant LP Rear reliability TKE1425 70.00 % LP Reat LP rear reliability **TKE1425** 77.00 % Jurisdiction State Jurisdiction confidence Virginia 77.00 % Class reliability Extended vehicle 63.89 % Speed Asles number 71.1 mph Serial No Issuer Type North Carolina TDM 00330004123518 Tumpike Authority(NCTA) Next > Return Previous

Class

2

TAGS

#### Indra's user interface for express lane facility management





## I-485 RTCS Project Status

#### **Phase 1 Closeout Activities**

- Interface Testing with NCTA BOS completed March 2025
- Execution of Onsite Installation Testing in progress
- Developing procedures for future test phases
  - System Installation Test
  - Operational Acceptance Test
  - System Acceptance Test
- Other documents in progress
  - Maintenance plan
  - Training plan and materials
  - User manuals
  - Disaster recovery plan

#### I-485 Toll Zone Construction Progress

						Toll Sites			
	A01	A02	A03	A04	A05	A06	A07	A08	A09/A10
	1.1	1.2	2.1	2.2	3.1	3.2	4.1	4.2	5.1/5.2
	Westy WB	Westy EB	Park Rd	Rodney Rd	Ballantyne	Rea	Weddington	Wilson Rd	Pleasant Plains
Foundation	Complete	Complete	Complete	Complete	Complete	Complete	Complete	Complete	Complete
Toll Upright									
Toll Truss	"Installed"	"Installed"	"Installed"	"Installed"	"Installed"	"Installed"	"Installed"	"Installed"	"Installed"
Hangers	instatteu	instatted	Instatted	Instatted	instatted	instatted	Instatted	Instatted	instatted
Pipes									
LPS	Complete	Complete	Complete	Complete	Complete	Complete	Complete	Complete	Complete
Maintenance Driveway	Complete	Complete	Incomplete / No asphalt around pad	Incomplete / No asphalt around pad	Incomplete / No asphalt around pad	Incomplete / No asphalt around pad	Incomplete / No asphalt around pad	Incomplete / No asphalt around pad	Paved with holes
Equipment Pad	Complete	Complete	Complete	Complete	Complete	Complete	Complete	Complete	Complete
Power	#8 Complete	#8 Complete	#21 Complete	#14 Set	#29 Meter is active, Panel is not yet energized	#28 Complete	#39 Complete	#37 Power provided at the panel 4/21	#43 Complete
Bore to Median	Complete	Complete	Complete	Complete	All conduit crossing the highway between the cabinet pad and gantry must be replaced. This is expected to be complete within the next month.	Complete	Complete	Complete	Complete
Roadway Alignment and					Final (there is a shift downstream				Traffic shift to final pattern
Paving	Final	Final	Final	Final	of the toll zone)	Final	Final	Final	completed in April
Paving	Pending OGFC	Pending OGFC	Pending OGFC	Pending OGFC	Pending OGFC	Pending OGFC	Pending OGFC	Pending OGFC	Pending final lift and OGFC
Turned over to Indra	7/3/2024	11/26/2024	1/2/2025	1/21/2025		3/31/2025	2/28/2025	4/21/2025	

#### Digital Transformation & Modernization Procurement Schedule

Category	Date				
RFP Issued	October 1, 2024				
Mandatory Pre-Proposal Scope of Services Meeting	October 16, 2024 (11:00 a.m. to 12:00 p.m. ET)				
Proposer Questions Due	October 24, 2024 (4:00 p.m. ET)				
NCTA Response to Questions	Week of November 4, 2024				
Technical Proposals Due	December 4, 2024 (4:00 p.m. ET)				
Oral Interviews & Presentations	Week of February 3, 2025				
Notification of Proposers Shortlisted	February 17, 2025				
Price Proposals Due (ONLY Shortlisted Proposers Will Submit a Price Proposal)	February 24, 2025 ( <b>4:00 p.m. ET</b> )				
Ranking of Proposers for Negotiations	Week of March 17, 2025				
Notice of Award	Week of March 24, 2025				

#### **Request for Information (RFI) Issuance**

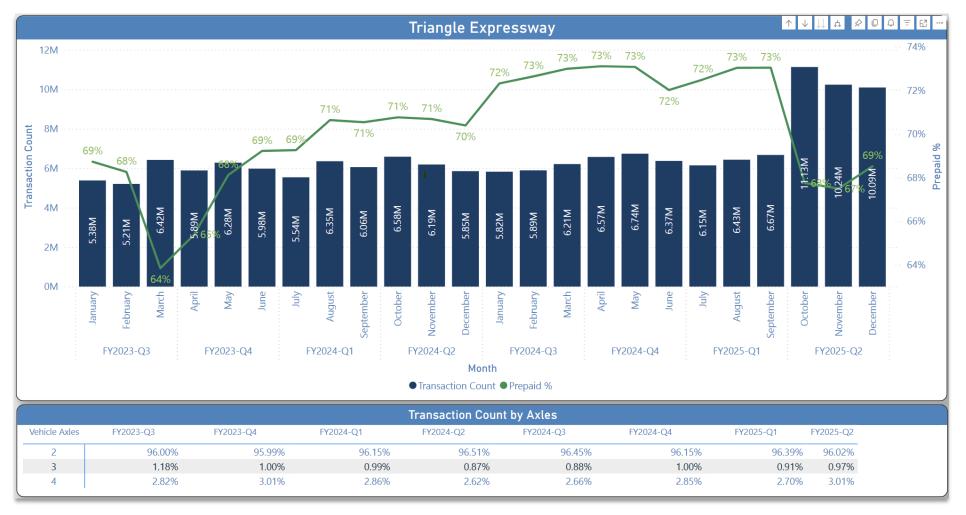
Customer Contact Technology RFI					
Category	Schedule				
RFI Issuance	Monday, May 5, 2025				
RFI Submittals Due	Wednesday, June 18, 2025				
Invitation for Industry Feedback / Demo Meeting	Monday, July 14, 2025				
Industry Meetings	Week of July 28 & Week of August 4				
Next Generation Roadside Systems RFI					
Category	Schedule				
RFI Issuance	Tuesday, June 3, 2025				
RFI Submittals Due	Thursday, July 17, 2025				
Invitation for Industry Feedback / Demo Meeting	Tuesday, August 19, 2025				
Industry Meetings	Week of Sept 1 & Week of Sept 8				

## **Traffic Statistics**

#### **Total Posted Transactions**

#### YOY Growth: 23.12%

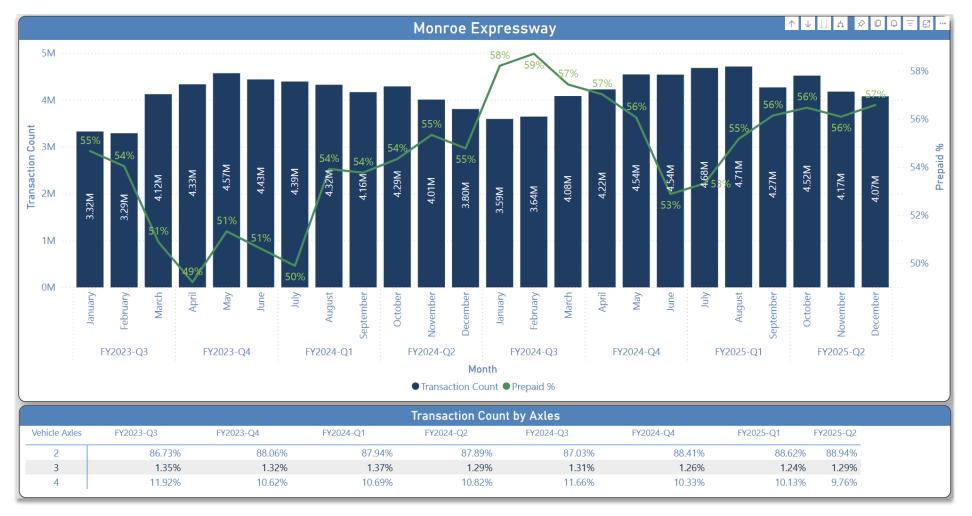
Triangle Expressway



#### **Total Posted Transactions**

### YOY Growth: **4.08%**

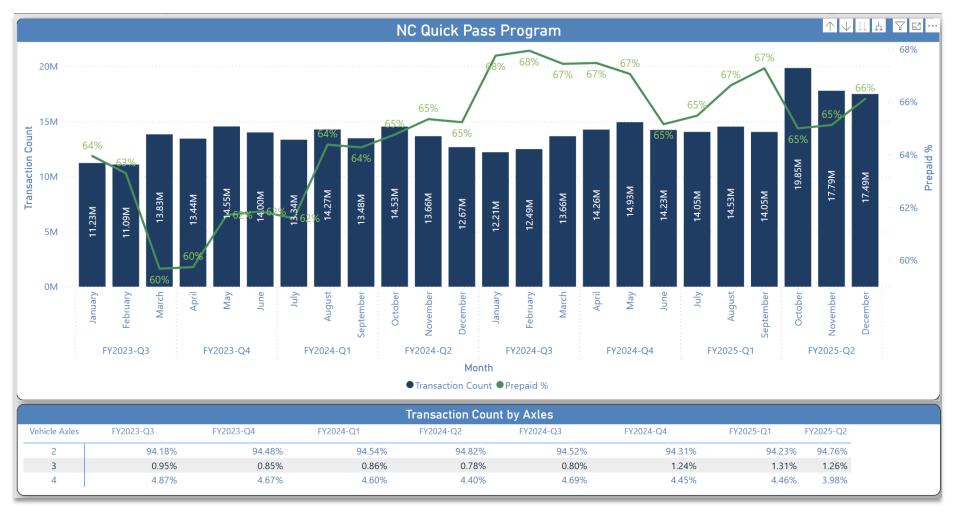
#### Monroe Expressway



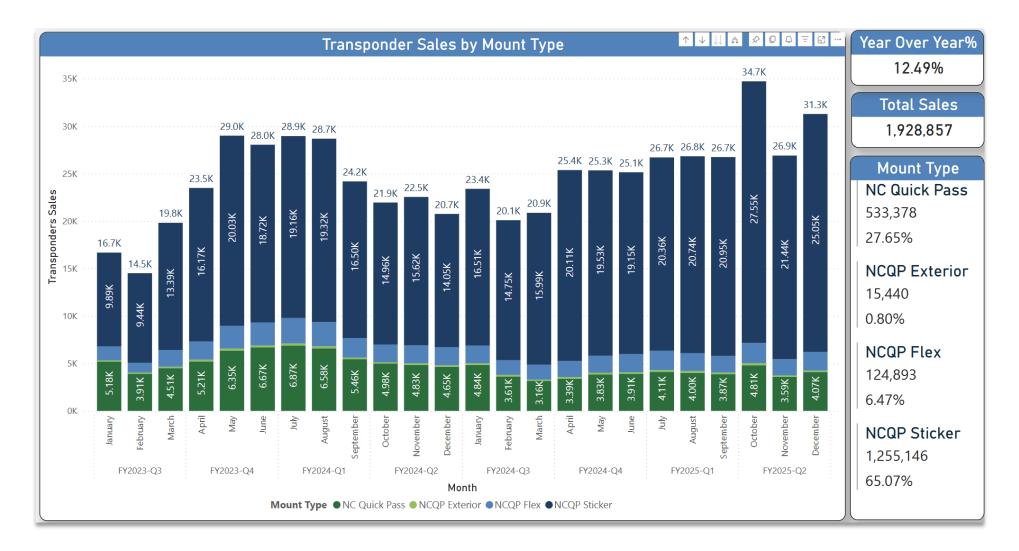
#### **Total Posted Transactions**

### YOY Growth: 12.15%

#### NC Quick Pass Program



#### Monthly Transponders Distributed



## **Customer Service Center Update**

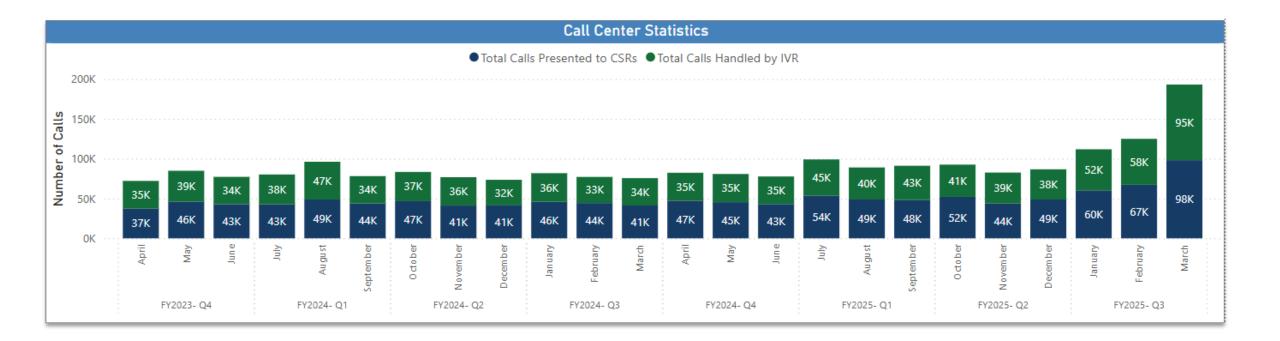
Angela Queenland

Deputy Program Director

#### **Call Center Statistics**

NC Quick Pass Program

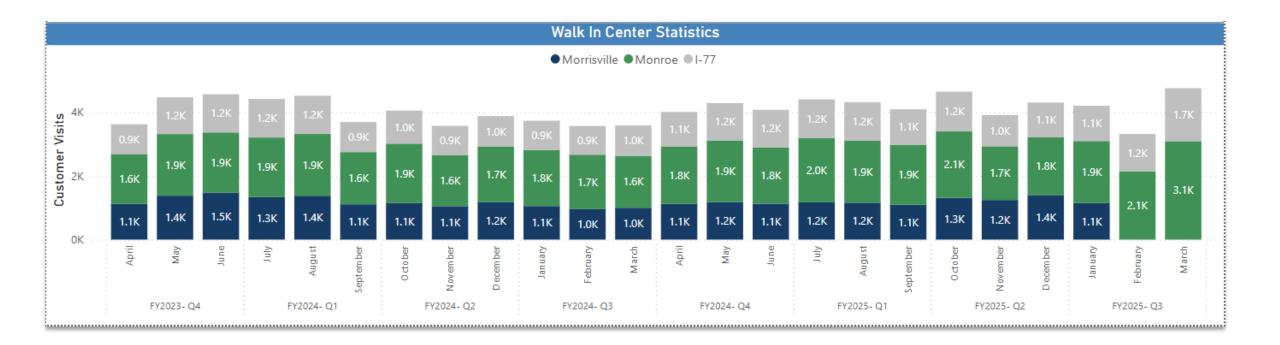
# YOY Growth: 26.7% IVR Containment Rate: 26.7%



#### Walk-In Center Statistics

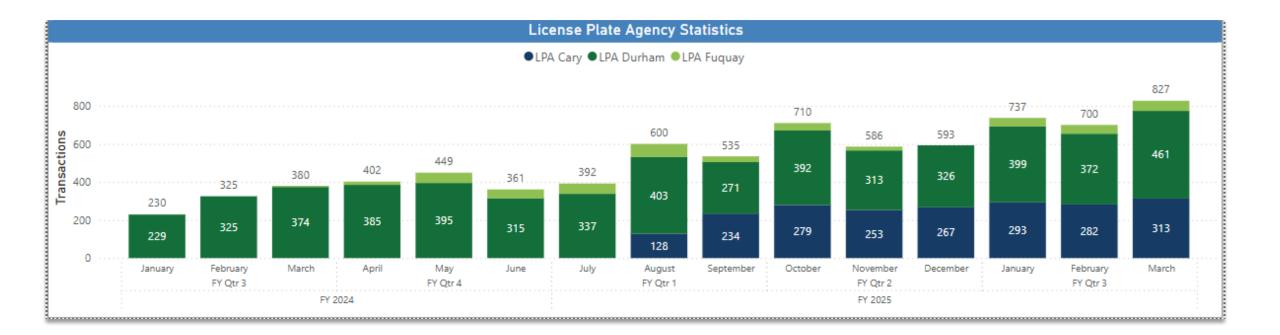
NC Quick Pass Program

### YOY Growth: 5.6%



#### **License Plate Agency Statistics**

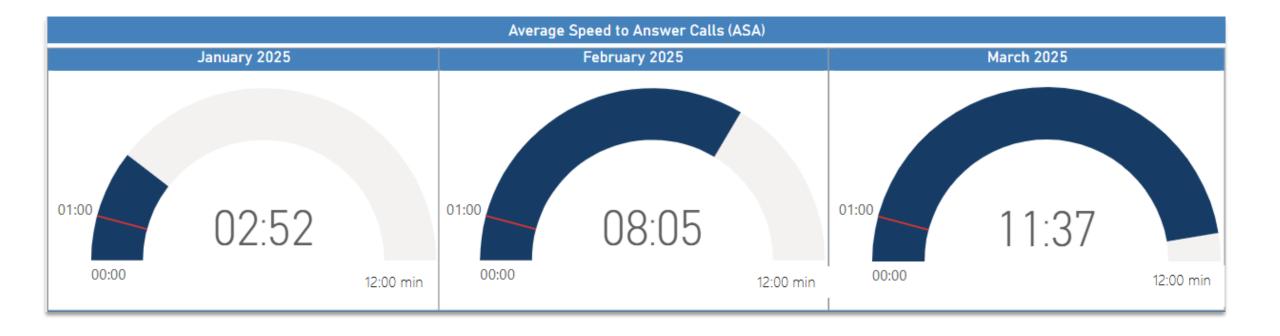
NC Quick Pass Program



#### Average Speed to Answer Calls

NC Quick Pass Program

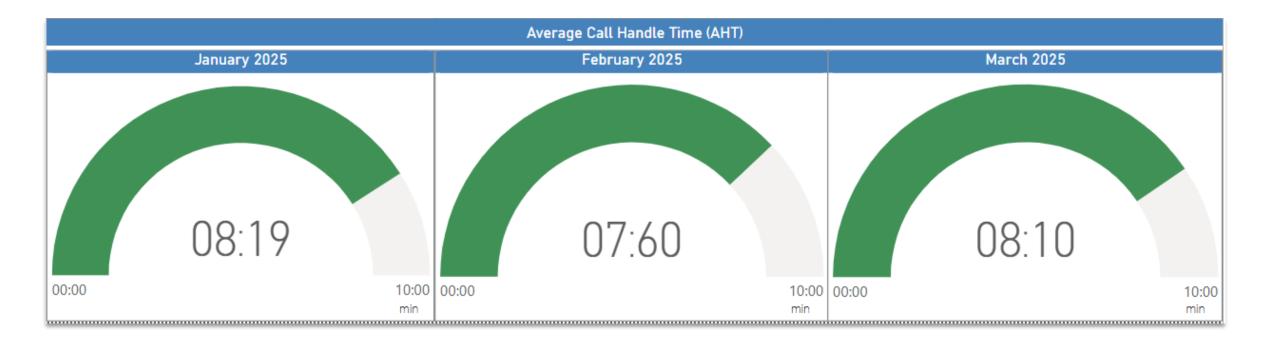
### YOY Growth: 226.9%



#### Average Call Handle Time

NC Quick Pass Program

#### YOY Growth: -12.7%



# Contact Us

\_\_\_\_\_ncdot.gov/turnpike

## <u> @NCTurnpike</u>

<u>
 @NorthCarolinaTurnpikeAuthority</u>

### ncquickpass.com

# Thank you!