



AGENDA

North Carolina Board of Transportation
1 South Wilmington Street, Raleigh, North Carolina 27601
March 4-5, 2020

Wednesday, March 4, 2020

10:00AM – 10:30AM

Audit Committee	Room 160
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10:30AM – 11:30AM

Road Naming Committee	Room 160
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1:00PM

WORK SESSION – FULL BOARD ATTENDANCE

ROOM 150

Secretary Remarks	Secretary Eric Boyette
Departmental Update	Bobby Lewis, Chief Operating Officer
Resiliency Update	Colin Mellor, Environmental Policy Unit (Easter Regional Lead) Matt Lauffer, Assistant State Hydraulics Engineer (Design) Jerry Jennings, PE, Highway Division 1 Engineer
Product Evaluation Program Awareness Handout	Chairman Fox

BREAK

The EDIR and FAST committees will begin immediately following the work session and last approximately 60 minutes.

EDIR Committee	Room 150
FAST Committee	EIC

Highway and Multi-Modal Committees will begin immediately following the adjournment of the EDIR and FAST Committees.

Highway Committee (scheduled to last approximately 90 minutes)	Room 150
Multi-Modal Committee (scheduled to last approximately 60 minutes)	EIC

NORTH CAROLINA BOARD OF TRANSPORTATION MEETING

Thursday, March 5, 2020

9:00AM

Location: Room 150

- **Call to Order**
- **Ethics Statement**
- **Approval of February 6, 2020 Meeting Minutes**
- **Brent Hamilton Award**

Chairman Fox

Information and Delegated Authority

Chairman Fox

- (Item C)** Award of Highway Construction Contracts from February 2020 Letting
- (Item D)** Award of Contracts to Private Firms for Engineering Services
- (Item E)** Funds for Secondary Road Improvement Projects – Highway Fund and Highway Trust Fund
- (Item H)** Approval of Funds for Division-wide Small Construction, Statewide Contingency, Public Access, and Economic Development
- (Item L)** Approval of Funds for Specific Spot Safety Improvement Projects

Action

Chairman Fox

North Carolina Transportation Innovation Council Resolution

Project Items

- (Item G)** Additions, Abandonments, and Road Name Changes to State Secondary Road System
- (Item I)** Public Transportation Program
 - (Item I-1) Public Transportation
 - (Item I-4) Aviation
- (Item K)** North Carolina Highway Trust Funds
- (Item M)** Funds for Specific Federal-Aid Projects
- (Item N)** Revisions to the 2018-2027 and 2020-2029 STIPS
- (Item O)** Municipal and Special Agreements
- (Item R)** Right of Way Resolutions and Ordinances

Committee Reports

Committee Chairs

Other Business

Chairman Fox

Adjourn

Chairman Fox

**PROJECTS LIST
NORTH CAROLINA BOARD OF TRANSPORTATION
RALEIGH, NORTH CAROLINA**

March 4-5, 2020

Delegated Authority Secretary Trogon

- (Item C) Award of Highway Construction Contracts from February 2020 Letting
- (Item D) Award of Contracts to Private Firms for Engineering Services
- (Item E) Funds for Secondary Road Improvement Projects –
Highway Fund and Highway Trust Fund **(No Item this Month)**
- (Item H) Funds for Division-wide Small Construction,
Statewide Contingency, Public Access, and Economic Development
- (Item L) Funds for Specific Spot Safety Improvement Projects

Action Chairman Fox

- (Item G) Additions, Abandonments, and Road Name Changes to State
Secondary Road System
- (Item I) Public Transportation Program
 - (Item I-1) Public Transportation
 - (Item I-2) Rail Program **(No Item this Month)**
 - (Item I-3) Bicycle and Pedestrian **(No Item this Month)**
 - (Item I-4) Aviation
- (Item K) North Carolina Highway Trust Funds
- (Item M) Funds for Specific Federal-Aid Projects
- (Item N) Revisions to the 2018-2027 and 2020-2029 STIPS
- (Item O) Municipal and Special Agreements
- (Item P) Municipal Street System Changes **(No Item this Month)**
- (Item R) Right of Way Resolutions and Ordinances
- (Item S) Maintenance Allocations **(No Item this Month)**
- (Item T) Submission of Comprehensive Transportation Plans for Mutual
Adoption by the Board of Transportation **(No Item this Month)**
- (Item V) **(No Item this Month)**

NCDOT Board of Transportation Agenda

ITEM C

FEBRUARY 18, 2020

According to Executive Order No. 2 and G.S. 143B-350(g), the Board is requested to concur with staff recommendations and delegate authority to the Secretary to award the following highway construction projects.

HIGHWAY LETTING
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
RALEIGH N.C.
FEBRUARY 18, 2020
DIVISION 00013

PAGE : 1 of 1
ITEM C

C204467
48755.3.GV1
NHPIM-0040(097)
BUNCOMBE
I-6063

PROPOSAL LENGTH 5.000 MILES

TYPE OF WORK PAVEMENT REHABILITATION.

LOCATION I-40 FROM MILE MARKER 50 TO MILE MARKER 55.

EST CONST PROGRESS.... FY-2020..27% OF BID
FY-2021..63% OF BID
FY-2022..10% OF BID

RPN 001 2 BIDDER(S) DBE GOAL 8.00 %
ESTIMATE 21,006,137.45

DATE AVAILABLE MAR 30 2020

INTER COMPLETION NOV 01 2021 COMPLETE ALL WORK EXCEPT PLANTING, REFORESTATION OR
PERMANENT VEGETATION ESTABLISHMENT

FINAL COMPLETION APR 30 2022

	\$ TOTALS	% DIFF
ROGERS GROUP INC NASHVILLE, TN	22,271,239.79	+6.0
HARRISON CONSTRUCTION COMPANY DIVISION OF APAC-ATLANTIC INC AS	24,993,755.40	+19.0

ESTIMATE TOTAL	21,006,137.45	
LETTING TOTAL	22,271,239.79	+6.0

AWARDED

**NCDOT MARCH 2020
Board of Transportation Agenda**

According to Executive Order No. 2 and G. S. 143B-350 (g) the Board is requested to concur with staff recommendations and delegate authority to the Secretary to award contracts to private firms for engineering services.

Professional Services Management

Chief Operating Officer

Information Technology

Geographic Information Systems (GIS) Unit

The following is a supplemental contract to a previous contract approved by the Board with the same engineering firm. This supplemental contract was necessary due to approved additional work that was unknown at the inception and is required of the firm to complete the project. Our staff has completed the actions in accordance with the policies and procedures adopted by the Board on May 7, 2009. This is for information only.

STATEWIDE

Description of work:	2015 GIS Support for Transportation Legislative Initiatives
Firm:	Arcadis G&M of North Carolina, Inc., Chicago, IL
Original Engineering Fee:	\$250,000.00
Previous Supplemental Fee:	\$950,000.00
Supplemental Fee:	\$200,000.00 and a One-Year Time Extension
SPSF Utilization:	0%

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Chief Engineer

Divisions

Division 6

After careful evaluation of the workload and schedules of the work that can be accomplished by our staff, it was determined necessary to employ a private firm to provide Construction Engineering and Inspection (CEI) Services on TIP Projects I-5877 and I-5986A for I-95 Widening, listed below for our Department to obligate available funds. Our staff was authorized to proceed with the actions required to employ private engineering firms in accordance with the policies and procedures adopted by the Board on May 7, 2009. This is for information only.

DIVISION 6

Project:	53077.3.1 (I-5877) Harnett County; and 47532.3.2 (I-5986A) Cumberland County I-95 at SR 1811 (Bud Hawkins Road) (Exit 70) and SR 1001 (Long Branch Road) (Exit 71) Improve Interchanges; and I-95 Business/US 301 (Exit 56) to SR 1001 (Long Branch Road - Exit 71) Widen to Eight Lanes
Scope of Work:	Construction Engineering and Inspection Services
Estimated Construction Cost:	\$20,500,000.00; and \$398,000,000.00
Firm:	Volkert Inc, Birmingham, AL
Maximum Engineering Fee:	\$27,000,000.00
SPSF Utilization:	0%

Statewide

The following is a supplemental contract to a previous contract approved by the Board with the same engineering firm. This supplemental contract was necessary due to approved additional work that was unknown at the inception and is required of the firm to complete the project. Our staff has completed the actions in accordance with the policies and procedures adopted by the Board on May 7, 2009. This is for information only.

STATEWIDE

Description of work:	2017 Statewide On-Call Construction Engineering & Inspection Services LSC
Firm:	Michael Baker Engineering, Inc., Cary, NC
Original Engineering Fee:	\$10,000,000.00
Previous Supplemental Fee:	\$20,000,000.00
Supplemental Fee:	\$5,000,000.00
SPSF Utilization:	0%

Technical Services

Geotechnical Engineering Unit

After careful evaluation of the workload and schedules of the work that can be accomplished by our staff, it was determined necessary to employ private firms for Geotechnical, GeoEnvironmental, and Foundation Testing Services on an as needed basis for various federal-aid and state funded projects to support the Geotechnical Engineering Unit. These contracts will expire two (2) years with one (1) possible one-year extension after the date of execution or after the contract amount has been depleted, whichever occurs first. Our staff has completed the actions for employing private firms in accordance with the policies and procedures adopted by the Board on May 7, 2009. This is for information only.

STATEWIDE

Description of Work:	2020 Geotechnical, GeoEnvironmental, and Foundation Testing Services LSC
Firm:	Apex Companies LLC, Baltimore, MD
Maximum Engineering Fee:	\$500,000.00
SPSF Utilization:	0%

Description of Work:	2020 Geotechnical, GeoEnvironmental, and Foundation Testing Services LSC
Firm:	Carolinas Geotechnical Group, PLLC, Charlotte, NC
Maximum Engineering Fee:	\$1,000,000.00
SPSF Utilization:	100%

Description of Work:	2020 Geotechnical, GeoEnvironmental, and Foundation Testing Services LSC
Firm:	Catlin Engineers and Scientists, Wilmington, NC
Maximum Engineering Fee:	\$4,000,000.00
SPSF Utilization:	100%

Description of Work:	2020 Geotechnical, GeoEnvironmental, and Foundation Testing Services LSC
Firm:	CES Group Engineers LLP, Denver, NC
Maximum Engineering Fee:	\$500,000.00
DBE/WBE/SPSF Utilization:	100%

Description of Work:	2020 Geotechnical, GeoEnvironmental, and Foundation Testing Services LSC
Firm:	Draper Aden Associates Inc, Blacksburg, VA
Maximum Engineering Fee:	\$1,000,000.00
SPSF Utilization:	0%

Description of Work:	2020 Geotechnical, GeoEnvironmental, and Foundation Testing Services LSC
Firm:	Dunklee & Dunham PC, Cary, NC
Maximum Engineering Fee:	\$500,000.00
SPSF Utilization:	100%

Description of Work: 2020 Geotechnical, GeoEnvironmental, and Foundation
Testing Services LSC
Firm: ECS Southeast LLP, Fayetteville, NC
Maximum Engineering Fee: \$2,000,000.00
SPSF Utilization: 0%

Description of Work: 2020 Geotechnical, GeoEnvironmental, and Foundation
Testing Services LSC
Firm: ESP Associates Inc, Charlotte, NC
Maximum Engineering Fee: \$3,000,000.00
SPSF Utilization: 0%

Description of Work: 2020 Geotechnical, GeoEnvironmental, and Foundation
Testing Services LSC
Firm: F&ME Consultants, Inc., Columbia, SC
Maximum Engineering Fee: \$1,000,000.00
SPSF Utilization: 100%

Description of Work: 2020 Geotechnical, GeoEnvironmental, and Foundation
Testing Services LSC
Firm: Falcon Engineering Inc, Cary, NC
Maximum Engineering Fee: \$2,000,000.00
DBE/WBE/SPSF Utilization: 100%

Description of Work: 2020 Geotechnical, GeoEnvironmental, and Foundation
Testing Services LSC
Firm: Froehling & Robertson, Inc, Charlotte, NC
Maximum Engineering Fee: \$4,000,000.00
DBE/WBE/SPSF Utilization: Wetherill Engineering, Inc.
2% / \$80,000.00

Description of Work: 2020 Geotechnical, GeoEnvironmental, and Foundation
Testing Services LSC
Firm: GEL Engineering of NC Inc, Charleston, SC
Maximum Engineering Fee: \$1,000,000.00
SPSF Utilization: 0%

Description of Work: 2020 Geotechnical, GeoEnvironmental, and Foundation
Testing Services LSC
Firm: Groundwater Management Associates, Inc., Apex, NC
Maximum Engineering Fee: \$500,000.00
SPSF Utilization: 100%

Description of Work: 2020 Geotechnical, GeoEnvironmental, and Foundation Testing Services LSC
Firm: Hart & Hickman PC, Charlotte, NC
Maximum Engineering Fee: \$1,000,000.00
SPSF Utilization: 0%

Description of Work: 2020 Geotechnical, GeoEnvironmental, and Foundation Testing Services LSC
Firm: HDR Engineering Inc of the Carolinas, Chicago, IL
Maximum Engineering Fee: \$2,000,000.00
SPSF Utilization: 0%

Description of Work: 2020 Geotechnical, GeoEnvironmental, and Foundation Testing Services LSC
Firm: ICE of Carolinas PLLC, Ladson, SC
Maximum Engineering Fee: \$4,000,000.00
SPSF Utilization: 0%

Description of Work: 2020 Geotechnical, GeoEnvironmental, and Foundation Testing Services LSC
Firm: Kleinfelder Inc, Los Angeles, CA
Maximum Engineering Fee: \$4,000,000.00
DBE/WBE/SPSF Utilization: Wetherill Engineering, Inc.
2% / \$80,000.00

Description of Work: 2020 Geotechnical, GeoEnvironmental, and Foundation Testing Services LSC
Firm: Mid Atlantic Associates Inc, Raleigh, NC
Maximum Engineering Fee: \$1,000,000.00
SPSF Utilization: 100%

Description of Work: 2020 Geotechnical, GeoEnvironmental, and Foundation Testing Services LSC
Firm: NOVA Engineering and Environmental, Inc, Raleigh, NC
Maximum Engineering Fee: \$500,000.00
DBE/WBE/SPSF Utilization: CH Engineering PLLC
1% / \$5,000.00
SPSF Utilization: Mattern & Craig Inc
1% / \$5,000.00
DBE/WBE/SPSF Utilization: Wetherill Engineering, Inc.
2% / \$10,000.00
SPSF Utilization: The Wooten Company
1% / \$5,000.00

Description of Work: 2020 Geotechnical, GeoEnvironmental, and Foundation Testing Services LSC
Firm: Pyramid Environmental & Engineering PC, Greensboro, NC
Maximum Engineering Fee: \$1,000,000.00
SPSF Utilization: 100%

Description of Work: 2020 Geotechnical, GeoEnvironmental, and Foundation Testing Services LSC
Firm: RK&K, Raleigh, NC
Maximum Engineering Fee: \$1,000,000.00
SPSF Utilization: 0%

Description of Work: 2020 Geotechnical, GeoEnvironmental, and Foundation Testing Services LSC
Firm: S&ME Inc, Raleigh, NC
Maximum Engineering Fee: \$5,000,000.00
SPSF Utilization: 0%

Description of Work: 2020 Geotechnical, GeoEnvironmental, and Foundation Testing Services LSC
Firm: Schnabel Engineering South PC, Merrifield, VA
Maximum Engineering Fee: \$1,000,000.00
SPSF Utilization: 0%

Description of Work: 2020 Geotechnical, GeoEnvironmental, and Foundation Testing Services LSC
Firm: Seramur & Associates PC, Boone, NC
Maximum Engineering Fee: \$1,000,000.00
SPSF Utilization: 0%

Description of Work: 2020 Geotechnical, GeoEnvironmental, and Foundation Testing Services LSC
Firm: Stewart, Philadelphia, PA
Maximum Engineering Fee: \$500,000.00
SPSF Utilization: 0%

Description of Work: 2020 Geotechnical, GeoEnvironmental, and Foundation Testing Services LSC
Firm: Summit Design and Engineering Services PLLC, Hillsborough, NC
Maximum Engineering Fee: \$3,000,000.00
SPSF Utilization: 0%

Description of Work: 2020 Geotechnical, GeoEnvironmental, and Foundation Testing Services LSC
Firm: Terracon Consultants Inc, Raleigh, NC
Maximum Engineering Fee: \$5,000,000.00
SPSF Utilization: 0%

Description of Work: 2020 Geotechnical, GeoEnvironmental, and Foundation Testing Services LSC
Firm: Thompson Engineering Inc, Mobile, AL
Maximum Engineering Fee: \$1,000,000.00
SPSF Utilization: 0%

Description of Work: 2020 Geotechnical, GeoEnvironmental, and Foundation Testing Services LSC
Firm: WithersRavenel Inc, Cary, NC
Maximum Engineering Fee: \$500,000.00
SPSF Utilization: 0%

Description of Work: 2020 Geotechnical, GeoEnvironmental, and Foundation Testing Services LSC
Firm: Wood Environment & Infrastructure Solutions Inc, Alpharetta, GA
Maximum Engineering Fee: \$4,000,000.00
SPSF Utilization: 0%

Hydraulics Unit

The following is a supplemental contract to a previous contract approved by the Board with the same engineering firm. This supplemental contract was necessary due to approved additional work that was unknown at the inception and is required of the firm to complete the project. Our staff has completed the actions in accordance with the policies and procedures adopted by the Board on May 7, 2009. This is for information only.

STATEWIDE

Description of work: 2018 Hydraulics Support Services LSC
Firm: ESP Associates Inc, Charlotte, NC
Original Engineering Fee: \$1,000,000.00
Supplemental Fee: \$2,000,000.00
SPSF Utilization: 0%

Environmental Analysis Unit

The following are supplemental contracts to previous contracts approved by the Board with the same engineering firms. These supplemental contracts were necessary due to approved additional work that was unknown at the inception and is required of the firms to complete the project. Our staff has completed the actions in accordance with the policies and procedures adopted by the Board on May 7, 2009. This is for information only.

STATEWIDE

Description of work:	2017 Archaeological Investigations LSC
Firm:	Commonwealth Heritage Group Inc, Dexter, MI
Original Engineering Fee:	\$1,250,000.00
Previous Supplemental Fee:	\$1,000,000.00
Supplemental Fee:	\$500,000.00
SPSF Utilization:	100%
Description of work:	2017 Archaeological Investigations LSC
Firm:	New South Associates Inc, Stone Mountain, GA
Original Engineering Fee:	\$1,750,000.00
Previous Supplemental Fee:	\$1,000,000.00
Supplemental Fee:	\$1,000,000.00
DBE/WBE/SPSF Utilization:	100%
Description of work:	2017 Archaeological Investigations LSC
Firm:	Stantec Consulting Services Inc, Chicago, IL
Original Engineering Fee:	\$500,000.00
Previous Supplemental Fee:	\$500,000.00
Supplemental Fee:	\$500,000.00
SPSF Utilization:	0%
Description of work:	2017 Archaeological Investigations LSC
Firm:	TRC Environmental Corporation, Pittsburgh, PA
Original Engineering Fee:	\$1,750,000.00
Previous Supplemental Fee:	\$1,000,000.00
Supplemental Fee:	\$1,000,000.00
DBE/WBE/SPSF Utilization:	New South Associates Inc 1% / \$10,000.00

END of ITEM D.

**NCDOT MARCH 2020 BOARD OF TRANSPORTATION AGENDA
Secondary Road Improvement Projects (Highway and Trust Funds)**

According to G.S. 143B-350(g), the Board is requested to concur with staff recommendations and delegate authority to the Secretary to approve funds for Secondary Road Improvement projects

There will be no Secondary Road Improvement projects submitted to the Board for approval at the March 2020 Board meeting.

NCDOT March 05, 2020 Board of Transportation Agenda

Additions to the State Highway System:

County	Petition Number	Length Added (Miles)	Description and/or Subdivision	Date of Report
Division 1				
Currituck	52047	0.13	Pan Ridge Pan Ridge Court	02/12/20
Currituck	52048	0.18	Villas at Corolla Bay Herring Street	12/20/19
Currituck	52049	0.14 0.06	Waterlily Ridge Gull Rock View Cedar Bay Court	09/20/19
Dare	52050	0.12	Hatteras Colony Section 7 Croaker Court	12/17/19
Martin	52051	0.23	Breeze Woods Breeze Woods Avenue	12/05/19
Pasquotank	52052	0.07	Copperfield Sylvan Court	02/05/20
Division 3				
New Hanover	52053	0.33	Weaver Woods East Lake Emerald Drive	12/09/19
Division 5				
Franklin	52054	0.36 0.17	Cedar Crossing Phase 1 Cranes Nest Drive Hawksbill Drive	01/23/20
Franklin	52055	0.31	Cedar Crossing Phase 2 Hawksbill Drive	01/23/20
Franklin	52056	0.16	Cedar Crossing Phase 3 Flat Shoal Lane	01/23/20
Franklin	52057	0.46 0.07 0.22 0.13 0.43 0.13	Fleming Forest Fleming Forest Drive Settlers Court Chesterfield Court Winchester Court Remington Court Eaglefeather Path	01/27/20

NCDOT March 05, 2020 Board of Transportation Agenda

Additions to the State Highway System:

County	Petition Number	Length Added (Miles)	Description and/or Subdivision	Date of Report
Division 5 (Continued)				
Wake	52058	0.26	Blalock's Glen Willow Winds Drive	01/09/20
		0.06	Brielle Court	
		0.19	Aquadale Drive	
		0.46	Seabring Lane	
		0.06	Covil Court	
		0.09	Lucado Court	
		0.07	Parizade Street	
Wake	52059	0.08	White Tail Farm Phase 1 Extend SR 1124, Adcock Road	01/27/20
Wake	52060	0.28	White Tail Farm Phase 1 Fawn Hoof Trail	01/28/20
Division 6				
Harnett	52061	0.17	Coopers Creek Extend SR 2606, Birch Avenue	12/17/19
		0.03	Dandelion Place	
		0.03	Okame Court	
Harnett	52062	0.29	Quail Glen Engilsh Springer Drive	12/17/19
		0.09	Setter Court	
		0.11	Pointer Drive	
Division 7				
Guilford	52063	0.17	Josie Mattie Neal Altavista Drive	11/01/19
Guilford	52064	0.17	Oak Grove Forest Longwood Drive	09/11/19
		0.06	Mapleway Lane	
Guilford	52065	0.18	Reserve at Oak Ridge Quiet Reserve Road	11/08/19
		0.16	Beaver Pond Drive	
		0.07	Beaver Pond Court	
Division 9				
Rowan	52066	0.20	Goodman Lake Road	01/28/20

NCDOT March 05, 2020 Board of Transportation Agenda**Abandonments from the State Highway System:**

County	Petition Number	Length Abandoned (Miles)	Description and/or Subdivision	Date of Report
Division 5 Franklin	52067	0.57	SR 1703, Bryant Road Retain 0.00 miles	01/15/20
Division 12 Cleveland	52068	0.27	SR 2280, Banks Road Retain 0.00 miles	01/15/20

Summary: **Number of road sections petitioned for addition – 40**
Number of road sections petitioned for abandonment - 2

Corrections to the State Highway System: NONE

NCDOT MARCH 2020 BOARD OF TRANSPORTATION AGENDA
Funds Request
Division-wide Small Construction, Statewide Contingency,
Public Access, Economic Development, High Impact/Low Cost

According to Executive Order No. 2 and G.S. 143B-350(g), the Board is requested to concur with staff recommendation and delegate authority to the Secretary to approve funds for specific Division-wide Small Construction / Statewide Contingency projects.

County	Description	Type	Amount
Div 8 Scotland	WBS 46915 was established (01/17) for pedestrian improvements including sidewalk and pedestrian signals along SR 1108 (West Blvd) at the intersection of US-15/401 from the entrance of Wal-Mart to east of US-15/401 Increase funds	Small Construction TOTAL	\$6,800.00 \$6,800.00
Div 9 Rowan	Signs for the Officer Robert Y Clement Bridge on SR 1004 (Stokes Ferry Rd) WBS 49093	Contingency TOTAL	\$2,000.00 \$2,000.00
Div 12 Catawba	City of Conover – Construction and realignment of approximately 1,705 linear feet of SR 1483 (Punched Loop Rd) Other funding: \$1,866,202 (Golden Leaf & Industry) WBS 49158	Public Access Econ Development TOTAL	\$100,500.00 \$167,500.00 \$268,000.00
Div 13 Buncombe	Construct a right turn acceleration lane on US-74A from I-40 eastbound off-ramp (Exit 53A); Construct a raised island to restrict left turn movement from Exit 53A off-ramp to US-74A Westbound; Companion to WBS 48574 Other funding: \$750,000 (Spot Mobility) WBS 48914	High Impact / Low Cost TOTAL	\$538,000.00 \$538,000.00
Div 13 Buncombe	Construct a roundabout at the intersection of SR 3136 (Cane Creek Rd) and SR 3150 (Mills Gap Rd) Other funding: \$750,000 (Spot Mobility) WBS 48915	High Impact / Low Cost TOTAL	\$1,151,778.00 \$1,151,778.00
Statewide	WBS 72.1000 was established (06/16) for paving drives from state-maintained roads to bay doors of fire and rescue facilities [N.C.G.S. 136-18(24)] Decrease funds	Public Access TOTAL	(\$100,500.00) (\$100,500.00)

NCDOT MARCH 2020 BOARD OF TRANSPORTATION AGENDA
Funds Request
Division-wide Small Construction, Statewide Contingency,
Public Access, Economic Development, High Impact/Low Cost

Deletions:

Div 13, Burke County – WBS 47871 was established (02/18) to add left turn lanes on South Center St (SR 1002) to Old State Hwy 10; anticipated to be funded by an alternate source

Summary:	Number of Divisions	4
	Number of Projects	6
	Small Construction Commitment	\$6,800.00
	Public Access Commitment	\$0.00
	Contingency Commitment	\$2,000.00
	Economic Development Commitment	\$167,500.00
	High Impact/Low Cost Commitment	<u>\$1,689,778.00</u>
	TOTAL:	\$1,866,078.00

NCDOT March 2020 Board of Transportation Agenda
Public Transportation Program

Division	Project Number	5311 Operating/Admin	Estimated Project Cost
			Admin
1	21-CT-028	MARTIN COUNTY FY21 Community Transportation Admin. Administrative costs related to rural community transportation services. Application Number: 1000008497	\$137,107 Total \$109,685 Federal \$6,855 State \$20,567 Local
4	21-CT-001	CITY OF WILSON FY21 Community Transportation Admin. Administrative costs related to rural community transportation services. Application Number: 1000008500	Admin \$444,893 Total \$331,845 Federal \$20,732 State \$92,316 Local
8	21-CT-078	HOKE COUNTY FY21 Community Transportation Admin. Administrative costs related to rural community transportation services. Application Number: 1000008643	Admin \$141,867 Total \$113,493 Federal \$7,093 State \$21,281 Local

Division	Project Number	5311 Capital - Rural Community Transportation	Estimated Project Cost
7	21-CT-041	ALAMANCE COUNTY FY21 5311 Capital Program (9) propane conversion kits (27) mobile data devices (tablets) Quickbooks Premier software 1000008207	CAPITAL \$86,899 Total \$69,519 Federal \$8,689 State \$8,691 Local
1	21-CT-005	ALBEMARLE REGIONAL FY21 5311 Capital Program Other Capital Expenses - (1) Replacement Tire Changer at \$17,423, (1) Replacement Wheel Balancer at \$15,972, (4) Propane Conversion Kits at \$36,800 Facility Improvements - Replacement Roof at \$265,000 1000008516	CAPITAL \$335,194 Total \$268,156 Federal \$33,519 State \$33,519 Local
10	21-CT-011	ANSON COUNTY FY21 5311 Capital Program 1) External Hard Drive, (1) Replacement Personal Computer, (1) replacement LaserJet Printer 1000008619	CAPITAL \$63,600 Total \$50,880 Federal \$6,360 State \$6,360 Local
2	21-CT-017	BEAUFORT COUNTY FY21 5311 Capital Program (1) Seon Camera system, (1) VMAX Commander Camera System 1000008678	CAPITAL \$10,845 Total \$8,677 Federal \$1,084 State

NCDOT March 2020 Board of Transportation Agenda

Public Transportation Program

			\$1,084	Local
		BRUNSWICK TRANSIT		CAPITAL
		FY21 5311 Capital Program	\$6,400	Total
3	21-CT-085	(Qty: 4) Conference/Meeting Tables (Qty: 2) Chairs (Qty: 20) Battery Backups (Qty 4)	\$5,120	Federal
		1000008599	\$640	State
			\$640	Local
		CABARRUS COUNTY		CAPITAL
		FY21 5311 Capital Program	\$393,000	Total
10	21-CT-042	(6) Raised Roof Vans with Lifts	\$314,400	Federal
		1000008166	\$39,300	State
			\$39,300	Local
		CARTERET COUNTY		CAPITAL
		FY21 5311 Capital Program	\$45,180	Total
2	21-CT-054	(4) Propane Conversion kits	\$36,144	Federal
		1000008495	\$4,518	State
			\$4,518	Local
		CHOANOKE PUBLIC		CAPITAL
		FY21 5311 Capital Program	\$78,272	Total
		Other Capital Expenses - (1) Office Shredder , (1) Transmission & Engine, (3) Fuel Sender, (3) Alternator, (3) A/C Compressor, (3) Booster Assembly, (2) Replacement Repeater Station, (1) Replacement Radio Base Station, (22) Replacement Mobile Radio Unit Other Equipment - (1) Steam Cleaner, (8) W/C Lift Safety Guards Baseline Technology - (4) Personal Computer Systems Other Facility Improvements - Replacement of Interior Light Ballast	\$62,614	Federal
1	21-CT-023			
		1000008504	\$7,828	State
			\$7,830	Local
		CITY OF WILSON		CAPITAL
		FY21 5311 Capital Program	\$495,983	Total
4	21-CT-001	2) Office Chairs (1) Engine , (1) Remanufactured Engine , (1) Reconditioned Transmission, (2) Alternators , (2) Blower Motor and Condenser Motor , (15) Mobile Radio , (50) Bus Stop signs Facility - Other Facility Improvements (Skylight Replacement)	\$396,787	Federal
		1000008155	\$49,598	State
			\$49,598	Local
		COMMUNITY AND SENIOR SERVICES OF JOHNSTON COUNTY		CAPITAL
		FY21 5311 Capital Program	\$16,234	Total
4	21-CT-039	(18) mobile radios, Virus software	\$12,987	Federal
		1000008219	\$1,623	State
			\$1,624	Local
		COUNTY OF LEE		CAPITAL
		FY21 5311 Capital Program	\$56,346	Total
8	21-CT-061	(1) Headset and Radio Dispatch Software (20) Tablets and (18) Vehicle Security Cameras (4) Personal Computer Systems	\$45,076	Federal
		1000008303	\$5,634	State
3	21-CT-012	DUPLIN COUNTY	\$5,636	Local
				CAPITAL

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		FY21 5311 Capital Program	\$50,016	Total
		(14) vehicle replacement camera systems	\$40,012	Federal
		1000008283	\$5,001	State
			\$5,003	Local
		HOKE COUNTY	CAPITAL	
		FY21 5311 Capital Program	\$215,327	Total
8	21-CT-078	(1) raised roof vans with lift; and (2) 22ft LTVs with wheelchair lifts.	\$172,261	Federal
		1000008644	\$21,532	State
			\$21,534	Local
		IREDELL COUNTY	CAPITAL	
		FY21 5311 Capital Program	\$410,004	Total
12	21-CT-024	Replace (3) low floor 25ft LTVs.	\$328,003	Federal
		1000008241	\$41,000	State
			\$41,001	Local
		KERR AREA TRANSPORTATION AUTHORITY	CAPITAL	
		FY21 5311 Capital Program	\$176,929	Total
		Advanced Technology Expenses - (41) Vehicle Security/Surveillance	\$141,543	Federal
		Replacements at \$161,704 Baseline Technology Expenses - (15) Personal		
5	21-CT-030	Computer Systems at \$15,225		
		1000008743	\$17,692	State
			\$17,694	Local
		LENOIR COUNTY	CAPITAL	
		FY21 5311 Capital Program	\$50,544	Total
2	21-CT-034	(18) Vehicle Camera Systems	\$40,435	Federal
		1000008336	\$5,054	State
			\$5,055	Local
		LINCOLN COUNTY	CAPITAL	
		FY21 5311 Capital Program	\$242,638	Total
12	21-CT-087	(3) 20' Light Transit Vehicles with wheelchair lifts plus vehicle lettering (18)	\$194,110	Federal
		Seon cameras, DVRs, Seon camera system software upgrade, Seon		
		system access point antenna for facility		
		1000008479	\$24,263	State
			\$24,265	Local
		MARTIN COUNTY	CAPITAL	
		FY21 5311 Capital Program	\$350,619	Total
		Capital Purchase: (2). 20' Light Transit Vehicle w/wheelchair lift	\$280,495	Federal
		(Replacement), (1) 25' Light Transit Vehicle w/wheelchair lift (Replacement)		
1	21-CT-028	(1) Conference Television, (1) Television Stand. Facility Improvements.		
		1000008610	\$35,061	State
			\$35,063	Local
		MOORE COUNTY	CAPITAL	
		FY21 5311 Capital Program	\$122,159	Total
8	21-CT-062	(1) Raised Roof Van with lift, (1) Vehicle Lettering and Logo. Advanced	\$97,727	Federal
		technology - (21) Vehicle Security/ Surveillance Equipment Baseline		
		Technology - (2) Micro Portable Projector/Laptop		
		1000008662	\$12,215	State

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			\$12,217	Local
		ONslow UNITED		
		FY21 5311 Capital Program		CAPITAL
3	21-CT-055	Vehicle Cameras and Software (20)	\$150,000	Total
		1000008609	\$120,000	Federal
			\$15,000	State
			\$15,000	Local
		PENDER ADULT		CAPITAL
		FY21 5311 Capital Program	\$62,811	Total
3	21-CT-069	Raised Roof Van (Replacement) Side Entry No Lift 12-13 passenger (1)	\$50,248	Federal
		Combination Steel Storage Locker (2) Office Chair (1) Replacement printer		
		(3) Computer Monitor (1)		
		1000008592	\$6,281	State
			\$6,282	Local
		PERSON COUNTY		CAPITAL
		FY21 5311 Capital Program	\$170,007	Total
6	21-CT-083	(2) replacement 22' LTVs with Lift, (2) Vehicle Lettering and Logos, (7)	\$136,005	Federal
		Replacement Mobile DVR Units, (7) Replacement Mobile Vehicle		
		Security/Surveillance Camera Systems, (1) Replacement SEON Operating		
		Software		
		1000008147	\$17,000	State
			\$17,002	Local
		RANDOLPH COUNTY		CAPITAL
		FY21 5311 Capital Program	\$532,200	Total
8	21-CT-073	(1) 20' LTV Replacement with no lift, (5) 20' LTV Replacement with	\$425,760	Federal
		wheelchair lift, (2) 22' LTV with wheelchair lift, (8) Vehicle lettering and logos		
		1000008525	\$53,220	State
			\$53,220	Local
		ROBESON COUNTY		CAPITAL
		FY21 5311 Capital Program	\$115,428	Total
6	21-CT-074	(1) Replacement 28' LTV w/lift (1) Vehicle lettering and logos, (3) Computer	\$92,342	Federal
		chairs, (1) Office phone (1) Surveillance equipment (7) replacement		
		computer systems, (1) Expansion Computer system		
		1000008412	\$11,542	State
			\$11,544	Local
		ROWAN COUNTY		CAPITAL
		FY21 5311 Capital Program	\$191,275	Total
9	21-CT-037	(1) 20ft LTV (no lift) and, (2) 20ft LTV with wheelchair lifts.	\$153,020	Federal
		1000008231	\$19,127	State
			\$19,128	Local
		SAMPSON COUNTY		CAPITAL
		FY21 5311 Capital Program	\$287,800	Total
3	21-CT-015	(Replacement) 22' Light Transit Vehicle w/wheelchair lift - Non CDL (4)	\$230,240	Federal
		Personal Computer System (PC) (4) Lettering and Logos (4)		
		1000008144	\$28,780	State
			\$28,780	Local
		SCOTLAND COUNTY		CAPITAL
8	21-CT-071	FY21 5311 Capital Program	\$142,000	Total

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		(2) replacement 22' LTVs with Lift 1000008492	\$113,600 Federal \$14,200 State \$14,200 Local
		STANLY COUNTY	CAPITAL
		FY21 5311 Capital Program	\$196,050 Total
10	21-CT-038	(3) Replacement 20' LTVs with Lift, (3) Lettering and Logos 1000008152	\$156,840 Federal \$19,605 State \$19,605 Local
		TRANSPORTATION ADMINISTRATION OF CLEVELAND COUNTY	CAPITAL
		FY21 5311 Capital Program	\$225,866 Total
		(2) Raised Roof Vans with Lifts (2) Vehicle Lettering and Logos (26) Mobile Data Devices (1) server for Seon Cameras (26) replacement TH4 DVR HD Cameras (3) replacement personal computer systems (1) laser jet printer (1) network server 1000008343	\$180,692 Federal \$22,586 State \$22,588 Local
		UNION COUNTY	CAPITAL
		FY21 5311 Capital Program	\$196,050 Total
10	21-CT-089	(3) 20ft LTVs with wheelchair lift. 1000008180	\$156,840 Federal \$19,605 State \$19,605 Local
		WASHINGTON COUNTY	CAPITAL
		FY21 5311 Capital Program	\$151,887 Total
1	21-CT-066	Replacement, (2) 25 foot Light transit Vehicle w/ Wheelchair lift, (2) Vehicle Lettering and Lego, (1) New HD Laser Jet Pro Copier/Fax/Printer. 1000008292	\$121,509 Federal \$15,188 State \$15,190 Local
		WAKE COUNTY	CAPITAL
		FY21 5311 Capital Program	\$620,640 Total
5	21-CT-063	Replace Vehicles Raised Roof Van w/lift (qty 8) Vehicle Lettering / Logos (qty 8) 1000008625	\$0 Federal \$558,576 State \$62,064 Local
		EBCI - Eastern Band Cherokee Indian	CAPITAL
		FY21 5311 Capital Program	\$70,321 Total
14		Transfer to FTA	\$70,321 Federal \$0 State \$0 Local
Division	Project Number	5311 ADTAP - APPALACHIAN RURAL FORMULA	Estimated Project Cost
		ALLEGHANY COUNTY	CAPITAL
		FY21 5311 ADTAP Capital Program	\$167,020 Total
11	21-AD-086	(2) Raised Roof Vans w/Lift (Replacement), (1) Minivan/Crossover (Replacement), (3) Vehicle Lettering and Logos. 1000008635	\$133,616 Federal \$16,702 State \$16,702 Local

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		APPALCART			CAPITAL	
		FY21 5311 ADTAP Capital Program			\$115,505	Total
		Replace vehicles (State Contract crew cab 4wd or full size suv) Seon DVR, Cameras, Accessories for Rural Expansion vehicle: \$2 ,162 Mobile radio unit for Rural Expansion vehicle: \$2,562 Maintenance Items 1 Engine			\$92,404	Federal
11	21-AD-007	\$16,463 2 Turbos \$6,029 2 Injector pumps \$4096 12 Injectors \$9356 1 Transmission \$4,655 2 Radiators/ Cac Assy \$17,369 12 Wheels \$1,800 2 Catalyst \$4,190 2 DPF Filters \$3,325				
		1000008383			\$11,550	State
					\$11,551	Local
		ASHE COUNTY			CAPITAL	
		FY21 5311 ADTAP Capital Program			\$208,921	Total
		1. 20' Light Transit Vehicle (replacement), 2. 20' Light Transit Vehicle w/ wheelchair lift (replacement), 1. Tire Changer-Wheel Balance Combo, 2. 10 Ton Long Classic Jack, 1. Radio Base station, 20. Mobile Radio Unit 2 way radios- installed, 3. Vehicle Lettering and Logos.			\$167,136	Federal
11	21-AD-014					
		1000008523			\$20,892	State
					\$20,893	Local
		AVERY COUNTY			CAPITAL	
		FY21 5311 ADTAP Capital Program			\$91,467	Total
		(1) Minivan / Crossover Conference Room Table (1), Conference Room Chairs (10), File/Storage Cabinets (5) BookCase (1), Stackable Chairs (8) Sofa (1) Computer Back-Up Batteries (3) TV for Training Videos (1) Micro Port Proj Laptop (1) Personal Computer System (1) Lift Van Emergency wheelchair Stop (4), Facility Sign Reconstruction (1) Vehicle Lettering Logos(1) Veh Security/Surv Eq Van Camera Security System (12)			\$73,173	Federal
11	21-AD-016					
		1000008426			\$9,146	State
					\$9,148	Local
		BUNCOMBE COUNTY			CAPITAL	
		FY21 5311 ADTAP Capital Program			\$769,616	Total
		25' Light Transit Vehicle w/wheelchair lift (qty 3) Optional Engine – CNG (qty 3) Bike Rack (qty 3) Raised Roof Van w/lift (qty 4) Mobile Radio Unit (qty 7) Bi-Fuel Propane Conversion Kit State Contract 557-B (qty 4) Camera System Replacement (43 Vehicles and Supporting Equipment) (qty 1)			\$615,692	Federal
13	21-AD-002					
		1000008718			\$76,961	State
					\$76,963	Local
		CHEROKEE COUNTY			CAPITAL	
		FY21 5311 ADTAP Capital Program			\$65,800	Total
		(1). Raised Roof Van w/lift (Replacement), (1) Letter and Logo			\$52,640	Federal
14	21-AD-019				\$6,580	State
		1000008252			\$6,580	Local
		CLAY COUNTY			CAPITAL	
		FY21 5311 ADTAP Capital Program			\$110,200	Total
		(2) Replacement Accessible Minivans, (4) Replacement Personal Computers, (1) Replacement Laser Jet Printer			\$88,160	Federal
14	21-AD-020					

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		1000008390	\$11,020 State \$11,020 Local
		GRAHAM COUNTY	CAPITAL
		FY21 5311 ADTAP Capital Program	\$71,242 Total
14	21-AD-079	(2) Minivan/crossover (Replacement), (2) Vehicle Lettering and Logos, (1) Personal Computer System	\$56,993 Federal
		1000008590	\$7,124 State \$7,125 Local
		JACKSON COUNTY	CAPITAL
		FY21 5311 ADTAP Capital Program	\$281,295 Total
14	21-AD-060	(1) Replacement 20" LTV with Lift, (2) Replacement 25' LTV with Lift, (1) Replacement ADA Accessible Minivan, (1) ICOM Propane System, (4) Vehicle Lettering and Logos	\$225,036 Federal
		1000008675	\$28,129 State \$28,130 Local
		MACON COUNTY	CAPITAL
		FY21 5311 ADTAP Capital Program	\$98,395 Total
14	21-AD-027	(1) replacement 25' LTV with Lift, (1) Bi-Fuel Propane Conversion Lit, (1) New Flooring for Facility	\$78,716 Federal
		1000008676	\$9,839 State \$9,840 Local
		MITCHELL COUNTY	CAPITAL
		FY21 5311 ADTAP Capital Program	\$236,425 Total
13	21-AD-010	Capital Purchases: Replace (1) 20' Light Transit Vehicle w/lift Replace (2) 22' Light Transit Vehicle w/lift Vehicle Lettering & Logos (3) Stack tables (4) Chairs 12 per set (3) Cart for stacking chairs (1) Office Chairs (4)	\$189,140 Federal
		1000008261	\$23,642 State \$23,643 Local
		MOUNTAIN PROJECTS	CAPITAL
		FY21 5311 ADTAP Capital Program	\$148,900 Total
14	21-AD-070	(1) 20' Light Transit Vehicle w/wheelchair lift, (1) Raised Roof Van w/lift (1) Propane Bi-Fuel Conversion LTV (1) Propane Bi-Fuel Conversion Lift Van (2) Vehicle Lettering - Logos	\$119,120 Federal
		1000008298	\$14,890 State \$14,890 Local
		POLK COUNTY	CAPITAL
		FY21 5311 ADTAP Capital Program	\$144,790 Total
14	21-AD-033	(2) Mini Van Replacements, (1) 20' LTV W/Lift Replacement, (3) Lettering and Logos, (3) Adobe Software, (1) Desktop Computer	\$115,832 Federal
		1000008607	\$14,479 State \$14,479 Local
		RUTHERFORD COUNTY	CAPITAL
		FY21 5311 ADTAP Capital Program	\$175,511 Total
13	21-AD-068	(1) Replacement 20' LTV w/lift, (1) Replacement Repeater Station, (1) Lettering and Logo, (28) Vehicle Camera Systems, (3) Bus Shelters.	\$140,408 Federal
		1000008636	\$17,551 State \$17,552 Local

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		TRANSYLVANIA COUNTY			CAPITAL	
		FY21 5311 ADTAP Capital Program			\$146,197	Total
		(2) Replacement LTVs with Lifts, (2) Replacement Mobile Radio Units, (2)			\$116,959	Federal
14	21-AD-057	Bike Racks for LTVs, (1) Bike Rack for Raised Roof Van, (2) Vehicle Lettering and Logos				
		1000008564			\$14,619	State
					\$14,619	Local
		WESTERN CAROLINA COMMUNITY ACTION			CAPITAL	
		FY21 5311 ADTAP Capital Program			\$66,000	Total
14	21-AD-022	(1) Raised Roof Van w/lift, (1) Vehicle Lettering - Logos			\$52,800	Federal
		1000008374			\$6,600	State
					\$6,600	Local
		WESTERN PIEDMONT REGIONAL TRANSIT AUTHORITY			CAPITAL	
		FY21 5311 ADTAP Capital Program			\$349,560	Total
12	21-AD-080	(3) 28' Light Transit Vehicle w/wheelchair lift (3) Brake Retarder (3) Bike Rack (6) Digital Header Vehicle Signs (3) Vehicle Lettering <(>&<)> Logos			\$279,648	Federal
		1000008357			\$34,956	State
					\$34,956	Local
		WILKES			CAPITAL	
		FY21 5311 ADTAP Capital Program			\$309,952	Total
11	21-AD-006	2) Replacement raised roof vans with lift, (2) Replacement ADA accessible Mini Van Crossover, (4) lettering and Logos, (24) Replacement Seon Camera systems			\$247,961	Federal
		1000008235			\$30,995	State
					\$30,996	Local
		YADKIN VALLEY			CAPITAL	
		FY21 5311 ADTAP Capital Program			\$439,906	Total
11	21-AD-031	(1) 25' Light Transit Vehicle with wheelchair lift (4) Raised Roof Vans w/ lifts Lettering and logos for five (5) vehicles (2) personal computer systems with 2 year technical support Replacement of sagging roof at Transit Facility			\$351,924	Federal
		1000008205			\$43,990	State
					\$43,992	Local
		YANCEY COUNTY			CAPITAL	
		FY21 5311 ADTAP Capital Program			\$27,743	Total
13	21-AD-009	Repeater Station (1) Mobile Radio Unit 2-way radio (7) Handheld Radio Unit portable 2-way radio (1) System Antenna (1) Rear Accessory Connector (11) Programming Tier 1 (14) Misc. Installation Parts (1) Roof Antennas for Vans (11) Labor for Project (1)			\$22,194	Federal
		1000008335			\$2,774	State
					\$2,775	Local
		EBCI - Eastern Band Cherokee Indian			CAPITAL	
		FY21 5311 ADTAP Capital Program			\$40,650	Total
14		Transfer to FTA			\$40,650	Federal
					\$0	State
					\$0	Local

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Division	Project Number	5339 RURAL - BUS AND BUS FACILITY	Estimated Project Cost
		ADTS OF ROCKINGHAM	CAPITAL
		FY21 5339 RURAL BUS & BUS FACILITY	\$365,500 Total
7	21-39-058S	4) 25' LTVs with Lift, (1) Raised Roof Van with Lift	\$292,400 Federal
		1000008503	\$36,550 State
			\$36,550 Local
		ALBEMARLE REGIONAL	CAPITAL
		FY21 5339 RURAL BUS & BUS FACILITY	\$279,400 Total
1	21-39-005S	Capital purchase: Replace vehicles - (1) 20' LTV with Wheelchair Lift, (3) 22' LTV with Wheelchair Lift, (4) Vehicle Lettering and Logo at \$1,400	\$223,520 Federal
		1000008516	\$27,940 State
			\$27,940 Local
		ANSON COUNTY	CAPITAL
		FY21 5339 RURAL BUS & BUS FACILITY	\$116,900 Total
10	21-39-011S	(1) Replacement Raised Roof Van, (1) Replacement 20' LTV with Lift, (1) Replacement Accessible Minivan, (3) Vehicle Lettering and Logos,	\$93,520 Federal
		1000008619	\$11,690 State
			\$11,690 Local
		BEAUFORT COUNTY	CAPITAL
		FY21 5339 RURAL BUS & BUS FACILITY	\$66,000 Total
2	21-39-017S	(1) Raised Roof Van w/Lift, (1) Mobile Radio Unit, (1) Vehicle Lettering and Logo	\$52,800 Federal
		1000008678	\$6,600 State
			\$6,600 Local
		BRUNSWICK TRANSIT	CAPITAL
		FY21 5339 RURAL BUS & BUS FACILITY	\$263,800 Total
3	21-39-085S	(4) Raised Roof Van w/lift (Replacement) - Vehicle Lettering and Logos	\$211,040 Federal
		1000008599	\$26,380 State
			\$26,380 Local
		CARTERET COUNTY	CAPITAL
		FY21 5339 RURAL BUS & BUS FACILITY	\$384,280 Total
2	21-39-054S	replace (1) 20' LTV w/lift and bike rack, (1) minivan, (1) minivan with wheelchair ramp, (3) 22' LTV w/lift and bike rack, (6) Vehicle lettering	\$307,424 Federal
		1000008495	\$38,428 State
			\$38,428 Local
		CASWELL COUNTY	CAPITAL
		FY21 5339 RURAL BUS & BUS FACILITY	\$60,350 Total
7	21-39-088S	Replacement vehicle 25' LTV, Logos and Lettering	\$48,280 Federal
		1000008145	\$6,035 State
			\$6,035 Local
		CHATHAM TRANSIT	CAPITAL
		FY21 5339 RURAL BUS & BUS FACILITY	\$363,050 Total
8	21-39-050S	(3) 20' LTVs, (1) 28' LTV, and (1) 22' LTV Lettering/Logos (5) replacement vehicles	\$290,440 Federal
		1000008297	\$36,305 State
			\$36,305 Local
1	21-39-023S	CHOANOKE PUBLIC	CAPITAL

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		FY21 5339 RURAL BUS & BUS FACILITY	\$150,900	Total
		Capital purchase: Replace (2) 25' LTV with Wheelchair lift, (2) Vehicle Lettering and Logo	\$120,720	Federal
		1000008504	\$15,090	State
			\$15,090	Local
		CITY OF WILSON		CAPITAL
		FY21 5339 RURAL BUS & BUS FACILITY	\$1,578,000	Total
4	21-39-001S	Replacement Vehicles - (3) 30' to 35' HD Low Floor Transit Bus, (3) 20' LTV with lift	\$1,262,400	Federal
		1000008155	\$157,800	State
			\$157,800	Local
		COLUMBUS COUNTY		CAPITAL
		FY21 5339 RURAL BUS & BUS FACILITY	\$203,325	Total
6	21-39-076S	(1) Replacement 22' LTV w/lift, (2) 20' LTV w/lift, (3) Lettering/Logos	\$162,660	Federal
		1000008549	\$20,332	State
			\$20,333	Local
		COMMUNITY AND SENIOR SERVICES OF JOHNSTON COUNTY		CAPITAL
		FY21 5339 RURAL BUS & BUS FACILITY	\$428,400	Total
4	21-39-039S	(2) 25Ft Lt Trans Vehicle W/Lift Replacement (2) Lift-Equipped Conversion Van Replacement (2) 22Ft Lt Trans Vehicle W/Lift Replacement	\$342,720	Federal
		1000008219	\$42,840	State
			\$42,840	Local
		COUNTY OF DARE		CAPITAL
		FY21 5339 RURAL BUS & BUS FACILITY	\$130,000	Total
1	21-39-040S	Capital purchase: Replacement 20' Light Transit Vehicle w/wheelchair lift (2)	\$104,000	Federal
		1000008556	\$13,000	State
			\$13,000	Local
		COUNTY OF HARNETT		CAPITAL
		FY21 5339 RURAL BUS & BUS FACILITY	\$325,000	Total
6	21-39-040S	Replacement 20' Light Transit Vehicle w/wheelchair lift (5)	\$260,000	Federal
		1000008472	\$32,500	State
			\$32,500	Local
		COUNTY OF MCDOWELL		CAPITAL
		FY21 5339 RURAL BUS & BUS FACILITY	\$195,000	Total
13	21-39-099S	(3) Replacement 20' LTV W/Lift.	\$156,000	Federal
		1000008606	\$19,500	State
			\$19,500	Local
		DUPLIN COUNTY		CAPITAL
		FY21 5339 RURAL BUS & BUS FACILITY	\$71,150	Total
3	21-39-012S	(1) Replacement 22' LTV w/lift, (1) Lettering/Logo,	\$56,920	Federal
		1000008283	\$7,115	State
			\$7,115	Local
		GATES COUNTY		CAPITAL
		FY21 5339 RURAL BUS & BUS FACILITY	\$107,200	Total
1	21-39-067S	(1) Minivan/Crossover (Replacement, (1) 22 Light Transit Vehicle w/Wheelchair lift, (2) Vehicle Lettering and Logos	\$85,760	Federal
		1000008513	\$10,720	State
			\$10,720	Local

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1	21-39-025S	HYDE COUNTY NON PROFIT	CAPITAL	
		FY21 5339 RURAL BUS & BUS FACILITY	\$71,600	Total
		Capital purchase: Replacement Vehicle 22' Light Transit Vehicle w/wheelchair lift (1) Vehicle lettering and logos (1)	\$57,280	Federal
		1000008456	\$7,160	State
			\$7,160	Local
5	21-39-030S	KERR AREA TRANSPORTATION AUTHORITY	CAPITAL	
		FY21 5339 RURAL BUS & BUS FACILITY	\$503,418	Total
		4 (20') LTV with wheelchair lift, 2 (22') LTV with wheelchair lift, 1 (28') LTV with wheelchair lift	\$402,734	Federal
		1000008743	\$50,342	State
			\$50,342	Local
2	21-39-034S	LENOIR COUNTY	CAPITAL	
		FY21 5339 RURAL BUS & BUS FACILITY	\$131,000	Total
		(2) Replacement Raised Roof van w/lift,	\$104,800	Federal
		1000008336	\$13,100	State
			\$13,100	Local
Division	Project Number	5339 SMALL URBAN - BUS AND BUS FACILITY	Estimated Project Cost	
7	21-39-041U	ALAMANCE COUNTY	CAPITAL	
		FY21 5339 SMALL URBAN BUS & BUS FACILITY	\$627,700	Total
		(5) 20' light transit vehicles with wheelchair lifts Replace (4) 25' light transit vehicles with wheelchair lifts (9) lettering and logo packages	\$502,160	Federal
		1000008207	\$62,770	State
			\$62,770	Local
4	21-39-043U	CITY OF ROCKY MOUNT	CAPITAL	
		FY21 5339 SMALL URBAN BUS & BUS FACILITY	\$353,640	Total
		Replace (2) 25' Light Transit Vehicles w/ wheelchair lifts and bike racks, (3) Raised Roof Van w/ wheelchair lifts, (5) vehicle lettering and logos	\$282,912	Federal
		1000008423	\$35,364	State
			\$35,364	Local
2	21-39-029U	CRAVEN COUNTY	CAPITAL	
		FY21 5339 SMALL URBAN BUS & BUS FACILITY	\$262,400	Total
		Replace Vehicles - (4) 20' LTV with wheelchair lift	\$209,920	Federal
		1000008597	\$26,240	State
			\$26,240	Local
9	21-39-026U	DAVIDSON COUNTY	CAPITAL	
		FY21 5339 SMALL URBAN BUS & BUS FACILITY	\$70,700	Total
		1) raised roof vans with lift; and (2) 22ft LTVs with wheelchair lifts.	\$56,560	Federal
		1000008347	\$7,070	State
			\$7,070	Local

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		GOLDSBORO WAYNE	CAPITAL	
4	21-39-047U	FY21 5339 SMALL URBAN BUS & BUS FACILITY	\$796,600	Total
		nine (9) 22' LTVs with wheelchair lifts Replace vehicles - one (1) 20' LTV with wheelchair lift Replace vehicle - one (1) 25' LTV with wheelchair lift Lettering and decals for all eleven (11) vehicles	\$637,280	Federal
		1000008622	\$79,660	State
			\$79,660	Local
		ONSLOW UNITED	CAPITAL	
3	21-39-055U	FY21 5339 SMALL URBAN BUS & BUS FACILITY	\$213,384	Total
		Replace Vehicles ((3) 22' LTV with wheelchair lift) Vehicle Logo and Lettering (3)	\$170,707	Federal
		1000008609	\$21,338	State
			\$21,339	Local
		PITT COUNTY	CAPITAL	
2	21-39-064U	FY21 5339 SMALL URBAN BUS & BUS FACILITY	\$196,900	Total
		Replace (2) Raised Roof Van with lift, (1) 20' LTV with wheelchair lift	\$157,520	Federal
		1000008384	\$19,690	State
			\$19,690	Local

No of Projects	Program ID	Fed	State	Local	Total
3	FY21 Community Transportation Admin.	625,344	34,680	134,164	794,188
33	FY21 5311 Capital Program	4,572,363	1,121,321	624,840	6,318,524
21	FY21 5311 ADTAP Capital Program	3,260,202	402,439	402,454	4,065,095
20	FY21 5339 RURAL BUS & BUS FACILITY	4,635,418	579,427	579,428	5,794,273
7	FY21 5339 SMALL URBAN BUS & BUS FACILITY	2,017,059	252,132	252,133	2,521,324
84	TOTAL	15,110,386	2,389,999	1,993,019	19,493,404

NCDOT March 2020 Board of Transportation Agenda

Rail Program

**Town/County
Division**

Project Description

**Estimated
Cost**

There will be no items presented for approval at the March 5, 2020, Board of Transportation meeting.

ITEM I - 2 SUMMARY – NO PROJECTS

NCDOT March 2020 Board of Transportation Agenda

Division of Bicycle and Pedestrian Transportation

Town/County Division	Project Description	Estimated Cost
	There will be no items presented for approval at the March 5, 2020, Board of Transportation meeting.	

ITEM I - 3 SUMMARY – NO PROJECTS

NCDOT March 2020 Board of Transportation Agenda

Aviation Program

**Division
Airport
County**

Project Description

Division 1
Martin County
Airport
Martin County

Parallel Taxiway (Design/Bid) – Amendment (36244.44.7.1)

Additional survey and design are needed to evaluate new taxiway connector locations to meet current FAA design criteria. This request is for local match to be funded through the Safety Enhancement Program. [PR#3425]

Division 1
Hyde County
Airport
Hyde County

18B Survey Project

This request will provide the required aerial and ground surveys necessary to update the airport master plan. This grant will be amended once scoping is complete. Funding of local match is requested through the Safety Enhancement Program to prevent expiration of federal funds. [PR# 3079]

Division 14
Macon County
Airport
Macon County

Fuel Farm Replacement (Design/Bid)

This project will design a new fuel farm to replace an aging fuel system that is creating safety concerns and does not have adequate capacity. [PR# 4137]

ITEM I - 4 SUMMARY – 3 PROJECTS – (TOTAL STATE COST) \$116,500

*Project selection and approval for award. Costs are estimated. Only eligible costs within the project scope of work will be reimbursed.

**NCDOT March 2020 Board of Transportation Agenda
Approval of Strategic Transportation Investments Funds**

Town/ County Division PROJ. CATEGORY	Project Description	Estimated Cost
Perquimans Co. Div. 1 R-5740 DIVISION	WBS 50198.3.1 SR 1329 (Woodville Road) from SR 1331 (Red Bank Road) to SR 1300 (New Hope Road). Initial funds are requested for construction based on the estimate from the 12-month Tentative Letting List published January 17, 2020. This is a BUILD NC YEAR 1 BOND project with a principal amount of \$4,000,000.00. Bond repayment requires \$343,000.00 of State Highway Trust funds in SFY 20 through SFY 34. This project also has \$1,800,000.00 in additional State Highway Trust funds.	\$6,945,000.00
Pender Co. Div. 3 B-4929 REGIONAL	WBS 40233.2.1 Replace Bridge # 16 over the Intracoastal Waterway on NC 50/210. \$9,850,000.00 has previously been approved for full right of way. Additional funds are needed to cover expenditures that have or will exceed the previously authorized budget.	\$570,200.00
Johnston Co. Div. 4 I-5974 REGIONAL	WBS 44993.2.2 I-95 at US 701 and NC 96. Initial funds are requested for advanced acquisition of Specific Parcel 900 (Property of Alan J. Patterson) for \$189,696.00.	\$189,696.00
Johnston Co. Div. 4 U-5795 DIVISION	WBS 44366.3.1 SR 2302 (Ricks Road) from US 70 to US 301. \$3,656,000.00 has previously been approved for construction. Additional funds are needed to cover expenditures that have or will exceed the previously authorized budget.	\$1,948,600.00
Wayne Co. Div. 4 AV-5740 DIVISION	WBS 46334.2.1 Wayne Executive Jetport, (GWW), Land Acquisition. Initial funds are requested for full right of way and utilities.	\$379,000.00

**NCDOT March 2020 Board of Transportation Agenda
Approval of Strategic Transportation Investments Funds**

Town/ County Division PROJ. CATEGORY	Project Description	Estimated Cost
Wayne Co. Div. 4 R-5829 DIVISION/ STATEWIDE	WBS 47101.1.1 US 70 from US 70 Bypass to east of SR 2314 (Pondfield Road). \$2,880,000.00 has previously been approved for preliminary engineering. Additional funds are needed to cover expenditures that have or will exceed the previously authorized budget.	\$1,223,500.00
Wayne Co. Div. 4 U-2714 REGIONAL	WBS 38979.3.1 US 117 from US 70 Bypass to SR 1306 (Fedelon Trail) in Goldsboro. Initial funds are requested for construction based on the estimate from the 12-month Tentative Letting List published January 17, 2020. This is a BUILD NC YEAR 1 BOND project with a principal amount of \$8,000,000.00. Bond repayment requires \$686,000.00 of State Highway Trust funds in SFY 20 through SFY 34. This project also has \$9,400,000.00 in additional State Highway Trust funds.	\$19,690,000.00
Wayne Co. Div. 4 U-2714 REGIONAL	WBS 38979.2.1 US 117 from US 70 Bypass to SR 1306 (Fedelon Trail) in Goldsboro. \$8,997,000.00 has previously been approved for full right of way and utilities. Additional funds are needed to cover expenditures that have or will exceed the previously authorized budget.	\$952,000.00
Harnett/ Johnston Cos. Divs. 4/6 I-5986BA STATEWIDE	WBS 47532.3.5 SR 1002 from Long Branch Road - Exit 17 to I-40 (Exit 81). Clearing for utilities. Initial funds are requested in advance of construction to clear trees for utilities.	\$143,400.00
Wake Co. Div. 5 M-0488K REGIONAL	WBS 46404.1.17 Western Wake Parkway from NC 55 (South) near Holly Springs to NC 55 (North) near Research Triangle Park. Initial funds are requested for preliminary engineering.	\$50,000.00

**NCDOT March 2020 Board of Transportation Agenda
Approval of Strategic Transportation Investments Funds**

Town/ County Division PROJ. CATEGORY	Project Description	Estimated Cost
Columbus Co. Div. 6 R-2561CA REGIONAL	WBS 34466.3.8 NC 87 at NC 11. \$5,000.00 has previously been approved for right of way appraisals. Additional funds are requested for full right of way and utilities.	\$2,698,500.00
Cumberland/ Robeson Cos. Div. 6 I-5987 REGIONAL	WBS 47533.1.1 I-95 from US 301 (Exit 22) to north of I-95 Business/US 301 (Exit 40). \$2,210,000.00 has previously been approved for preliminary engineering. Additional funds are needed to cover expenditures that have or will exceed the previously authorized budget.	\$1,905,000.00
Cumberland Co. Div. 6 U-2519AB REGIONAL	WBS 34817.2.28 Fayetteville Outer Loop from south of SR 1118 (Parkton Road) to south of SR 1003 (Camden Road). \$22,400,000.00 has previously been approved for full right of way and utilities. Additional funds are needed to cover expenditures that have or will exceed the previously authorized budget.	\$3,663,700.00
Cumberland Co. Div. 6 U-5742 REGIONAL	WBS 50164.3.1 Fayetteville computerized traffic signal system. \$7,908,619.00 has previously been approved for construction. Additional funds are needed to cover expenditures that have or will exceed the previously authorized budget.	\$317,900.00
Cumberland Co. Div. 6 U-5798A DIVISION	WBS 44369.2.2 SR 1102 (Gillis Hill Road) from north of SR 1112 (Stoney Point Road) to US 401 (Raeford Road). Initial funds are requested for full right of way and utilities.	\$2,432,000.00

**NCDOT March 2020 Board of Transportation Agenda
Approval of Strategic Transportation Investments Funds**

Town/ County Division PROJ. CATEGORY	Project Description	Estimated Cost
Harnett Co. Div. 6 I-5878A STATEWIDE	WBS 53078.3.2 I-95, US 421 (Exit 73) and SR 1793 (Pope Road) (Exit 72). Clearing for utilities. Initial funds are requested in advance of construction to clear trees for utilities.	\$139,000.00
Montgomery Co. Div. 8 R-0623 STATEWIDE	WBS 34352.2.S2 NC 24-27 Troy Bypass from SR 1138 (Dairy Road) to east of Little River. \$49,100,000.00 has previously been approved for construction. Additional funds are needed to cover expenditures that have or will exceed the previously authorized budget.	\$4,357,000.00
Randolph Co. Div. 8 U-5308 DIVISION	WBS 47028.1.2 SR 1547 (Finch Farm Road) from south of SR 3106 (Kennedy Road) to I-85. \$2,100,612.00 has previously been approved for preliminary engineering. \$93.64 of Division BUILD NC BOND funds will be replaced with Strategic Transportation Investments funds.	\$0.00
Rowan Co. Div. 9 U-5738 DIVISION	WBS 50163.2.1 SR 2528 (Julian Road) from US 601 (Jake Alexander Boulevard) to SR 2667 (Summit Park Drive) in Salisbury. \$2,670,000.00 has previously been approved for full right of way and utilities. Additional funds are needed to cover expenditures that have or will exceed the previously authorized budget.	\$593,400.00
Cabarrus Co. Div. 10 AV-5890 REGIONAL	WBS 48401.3.1 Concord Regional Airport (JQF). Rehabilitate apron and taxiway pavement. Initial funds are requested for construction.	\$315,000.00

**NCDOT March 2020 Board of Transportation Agenda
Approval of Strategic Transportation Investments Funds**

Town/ County Division PROJ. CATEGORY	Project Description	Estimated Cost
Mecklenburg Co. Div. 10 U-5767 REGIONAL/ BONUS ALLOCATION	WBS 50180.2.1 US 21 (Statesville Road) from Northcross Center Court to SR 2147 (Westmoreland Road). \$2,200,000.00 has previously been approved for full right of way. \$500,000.00 of Regional Strategic Transportation Investments funds will be replaced with Bonus Allocation Funds.	\$0.00
Mecklenburg Co. Div. 10 U-5768 REGIONAL	WBS 50181.1.R1 NC 49 from John Kirk Drive to I-485. \$2,000,000.00 has previously been approved for preliminary engineering. Additional funds are needed to cover expenditures that have or will exceed the previously authorized budget.	\$289,000.00
Ashe Co. Div. 11 R-2915E REGIONAL	WBS 34518.3.8 US 221 from US 221 Bypass to US 221 Business/NC 88 in Jefferson. Initial funds are requested for construction based on the estimate from the 12-month Tentative Letting List published January 17, 2020. This is a Cash Flow project with \$1,785,000.00 in SFY 20, and \$11,305,000.00 in SFY 21, SFY 22 and SFY 23.	\$35,700,000.00
Wilkes Co. Div. 11 R-2603 REGIONAL	WBS 36001.3.2 NC 268 from multi-lanes east of NC 18 to SR 1966 (Airport Road). \$25,440,865.00 has previously been approved for construction. Additional funds are needed to cover expenditures that have or will exceed the previously authorized budget.	\$1,212,200.00
Cleveland Co. Div. 12 R-2707D REGIONAL	WBS 34497.2.13 US 74 Shelby Bypass from east of NC 150 to existing US 74 west of SR 2238 (Long Branch Road). \$3,400,000.00 has previously been approved for advanced acquisition of properties that are total takes and full right of way utilities. Additional funds are needed to cover expenditures that have or will exceed the previously authorized budget.	\$1,322,750.00

**NCDOT March 2020 Board of Transportation Agenda
Approval of Strategic Transportation Investments Funds**

Town/ County Division PROJ. CATEGORY	Project Description	Estimated Cost
Buncombe Co. Div. 13 U-3403B REGIONAL	WBS 34936.1.4 NC 191 (Brevard Road/ Old Haywood Road) from SR 3498 (Ledbetter Road) to north of Blue Ridge Parkway. \$930,000.00 has previously been approved for preliminary engineering. Additional funds are needed to cover expenditures that have or will exceed the previously authorized budget.	\$900,300.00
Madison Co. Div. 13 R-5779 DIVISION	WBS 44834.3.1 Extend SR 1631 (Crossroads Parkway) to SR 1632 (Calvin Edney Road) in Madison County. \$1,611,000.00 has previously been approved for construction. Additional funds are requested for construction.	\$1,510,000.00
Cherokee Co. Div. 14 R-5735 DIVISION	WBS 50193.2.1 US 19 / US 74 / US 64 / US 129 from the end of 4-lane divided section to US 19 Business (Hiwassee Street). \$2,215,000.00 has previously been approved for full right of way and utilities. Additional funds are needed to cover expenditures that have or will exceed the previously authorized budget.	\$1,184,900.00
Graham Co. Div. 14 U-5866 DIVISION	WBS 46390.3.1 US 129 (Rodney Orr Bypass) to Robinsville High School and Middle School. \$3,811,224.00 has previously been approved for construction. Additional funds are needed to cover expenditures that have or will exceed the previously authorized budget.	\$1,126,000.00
Macon Co. Div. 14 R-4748 DIVISION	WBS 40118.3.1 New route from SR 1660 (Siler Road) in Franklin to SR 1662 (Wiley Brown Road) south of US 441. \$11,323,842.00 has previously been approved for construction. Funds need to be decreased (\$2,611,117.54). This project has previously been identified as a Trust Fund Specific State Funds for Construction project. Project is complete. WBS will be closed.	-\$2,611,117.54

**NCDOT March 2020 Board of Transportation Agenda
Approval of Strategic Transportation Investments Funds**

Town/ County Division PROJ. CATEGORY	Project Description	Estimated Cost
Transylvania Co. Div. 14 R-5605 DIVISION	WBS 43587.3.1 Davidson River Village Connector from US 64/US 276 to US 64 in Pisgah Forest. \$10,500,000.00 has previously been approved for construction. Additional funds are needed to cover expenditures that have or will exceed the previously authorized budget.	\$2,068,400.00
Transylvania Co. Div. 14 R-5799 REGIONAL	WBS 44984.2.1 Intersections of US 64, US 276 and NC 280. Construct intersection improvements. Initial funds are requested for full right of way and utilities. This is a Cash Flow project with \$3,600,000.00 in SFY 20 and SFY 21.	\$7,200,000.00
Statewide M-0360 STATEWIDE/ REGIONAL/ DIVISION	WBS 36824.1.2 Design Services, statewide, preliminary engineering for miscellaneous projects. \$8,160,000.00 has previously been approved for preliminary engineering. Additional funds are needed to cover expenditures that have or will exceed the previously authorized budget. Additional funds are requested using 40% Statewide (\$1,513,520.00) / 30% Regional (\$1,135,140.00) / 30% Division (\$1,135,140.00) Tier funding.	\$3,783,800.00
Statewide M-0479 STATEWIDE/ REGIONAL/ DIVISION	WBS 46314.1.S1 Statewide project development and environmental analysis, preliminary engineering for miscellaneous projects. \$13,440,000.00 has previously been approved for preliminary engineering. Additional funds are needed to cover expenditures that have or will exceed the previously authorized budget. Additional funds are requested using 40% Statewide (\$1,012,068.00) / 30% Regional (\$759,051.00) / 30% Division (\$759,051.00) Tier funding.	\$2,530,170.00

STATEWIDE STRATEGIC TRANSPORTATION INVESTMENTS	3 PROJECTS	\$4,639,400.00
REGIONAL STRATEGIC TRANSPORTATION INVESTMENTS	16 PROJECTS	\$76,976,246.00
DIVISION STRATEGIC TRANSPORTATION INVESTMENTS	11 PROJECTS	\$15,576,182.46
REGIONAL/BONUS ALLOCATION STRATEGIC TRANSPORTATION INVESTMENTS	1 PROJECT	\$0.00
STATEWIDE/REGIONAL/DIVISION STRATEGIC TRANSPORTATION INVESTMENTS	2 PROJECTS	\$6,313,970.00
DIVISION/STATEWIDE STRATEGIC TRANSPORTATION INVESTMENTS	1 PROJECT	\$1,223,500.00
STRATEGIC TRANSPORTATION INVESTMENTS	34 PROJECTS	\$104,729,298.46

March 5, 2020

NCDOT March 2020 Board of Transportation Agenda
Approval of Funds for Specific Spot Safety Improvement Projects
and for Specific Spot Mobility Projects

L-1

According to Executive Order No. 2 and G.S. 143B-350(g) the Board is requested to concur with staff recommendations and delegate authority to the Secretary to approve Funds for Specific Spot Safety and Spot Mobility Improvement Projects

Town/ County Division PROJ. CATEGORY	Project Description	Estimated Cost
Hertford Co. Div. 1 SS-6001F	WBS 49037.3.1 SR 1409 (Hall Siding Road) at SR 1413 (Willoughby Road). Initial Spot Safety construction funds are needed for All Way Stop installation. File 01-19-59339C	\$7,200.00
Hertford Co. Div. 1 SS-6001F	WBS 49037.1.1 SR 1409 (Hall Siding Road) at SR 1413 (Willoughby Road). Initial Spot Safety preliminary engineering funds are needed for All Way Stop installation. File 01-19-59339P	\$2,700.00
Jones Co. Div. 2 SM-5702C	WBS 49144.3.1 NC 58 at Jones County K-12 School across from SR 1325 (Curtis Road). Initial Spot Mobility construction funds are needed for widening and left turn lane construction. File 02-19-59337C	\$155,000.00
Jones Co. Div. 2 SM-5702C	WBS 49144.1.1 NC 58 at Jones County K-12 School across from SR 1325 (Curtis Road). Initial Spot Mobility preliminary engineering funds are needed for widening and left turn lane construction. File 02-19-59337P	\$5,000.00
Greenville/ Pitt Co. Div. 2 SS-6002G	WBS 49094.3.1 NC 33 at SR 1726 (Portertown Road). Initial Spot Safety construction funds are needed for traffic signal revisions. File 02-19-57447C	\$31,500.00

March 5, 2020

**NCDOT March 2020 Board of Transportation Agenda
Approval of Funds for Specific Spot Safety Improvement Projects
and for Specific Spot Mobility Projects**

L-2

**According to Executive Order No. 2 and G.S. 143B-350(g) the Board is requested to
concur with staff recommendations and delegate authority to the Secretary to approve
Funds for Specific Spot Safety and Spot Mobility Improvement Projects**

Town/ County Division PROJ. CATEGORY	Project Description	Estimated Cost
Greenville/ Pitt Co. Div. 2 SS-6002G	WBS 49094.1.1 NC 33 at SR 1726 (Portertown Road). Initial Spot Safety preliminary engineering funds are needed for traffic signal revisions. File 02-19-57447P	\$4,500.00
Wilmington/ New Hanover Co. Div. 3 SS-6003G	WBS 49095.1.1 NC 132 (South College Road) and Seventeenth Street/Waltmoor Road. Initial Spot Safety preliminary engineering funds are needed for traffic signal and pavement marking revisions. File 03-19-48671P	\$6,300.00
Wilmington/ New Hanover Co. Div. 3 SS-6003G	WBS 49095.3.1 NC 132 (South College Road) and Seventeenth Street/Waltmoor Road. Initial Spot Safety construction funds are needed for traffic signal and pavement marking revisions. File 03-19-48671C	\$24,300.00
Onslow Co. Div. 3 SS-6003I	WBS 49097.1.1 SR 1425 (Smith Road) and SR 1428 (Riggs Road). Initial Spot Safety preliminary engineering funds are needed for All Way Stop installation. File 03-19-59123P	\$5,400.00
Onslow Co. Div. 3 SS-6003I	WBS 49097.3.1 SR 1425 (Smith Road) and SR 1428 (Riggs Road). Initial Spot Safety construction funds are needed for All Way Stop installation. File 03-19-59123C	\$21,600.00

March 5, 2020

NCDOT March 2020 Board of Transportation Agenda
Approval of Funds for Specific Spot Safety Improvement Projects
and for Specific Spot Mobility Projects

L-3

According to Executive Order No. 2 and G.S. 143B-350(g) the Board is requested to concur with staff recommendations and delegate authority to the Secretary to approve Funds for Specific Spot Safety and Spot Mobility Improvement Projects

Town/ County Division PROJ. CATEGORY	Project Description	Estimated Cost
Sampson Co. Div. 3 SS-6003H	WBS 49096.3.1 US 701 and I-40 westbound and eastbound ramps. Initial Spot Safety construction funds are needed for median island installation and pavement marking and sign revisions. File 03-19-58048C	\$22,500.00
Sampson Co. Div. 3 SS-6003H	WBS 49096.1.1 US 701 and I-40 westbound and eastbound ramps. Initial Spot Safety preliminary engineering funds are needed for median island installation and pavement marking and sign revisions. File 03-19-58048P	\$5,400.00
Halifax Co. Div. 4 SS-6004J	WBS 49101.3.1 NC 125 at SR 1600 (Aurelian Springs Road). Initial Spot Safety construction funds are needed for All Way Stop installation. File 04-19-59335C	\$36,000.00
Halifax Co. Div. 4 SS-6004J	WBS 49101.1.1 NC 125 at SR 1600 (Aurelian Springs Road). Initial Spot Safety preliminary engineering funds are needed for All Way Stop installation. File 04-19-59335P	\$2,700.00
Johnston Co. Div. 4 SS-6004I	WBS 49099.1.1 SR 1532 (White Memorial Church Road) at SR 1533 (Mt. Pleasant Road). Initial Spot Safety preliminary engineering funds are needed for All Way Stop installation. File 04-19-58281P	\$2,700.00

March 5, 2020

NCDOT March 2020 Board of Transportation Agenda
Approval of Funds for Specific Spot Safety Improvement Projects
and for Specific Spot Mobility Projects

L-4

According to Executive Order No. 2 and G.S. 143B-350(g) the Board is requested to concur with staff recommendations and delegate authority to the Secretary to approve Funds for Specific Spot Safety and Spot Mobility Improvement Projects

Town/ County Division PROJ. CATEGORY	Project Description	Estimated Cost
Johnston Co. Div. 4 SS-6004I	WBS 49099.3.1 SR 1532 (White Memorial Church Road) at SR 1533 (Mt. Pleasant Road). Initial Spot Safety construction funds are needed for All Way Stop installation. File 04-19-58281C	\$18,000.00
Johnston Co. Div. 4 SS-6004K	WBS 49102.1.1 SR 1201 (Richardson Bridge Road) between SR 1007 (Brogden Road) and SR 1008 (Harper House Road). Initial Spot Safety preliminary engineering funds are needed for horizontal curve warning sign installation. File 04-19-59348P	\$900.00
Johnston Co. Div. 4 SS-6004K	WBS 49102.3.1 SR 1201 (Richardson Bridge Road) between SR 1007 (Brogden Road) and SR 1008 (Harper House Road). Initial Spot Safety construction funds are needed for horizontal curve warning sign installation. File 04-19-59348C	\$1,800.00
Rocky Mount/ Nash Co. Div. 4 SS-6004H	WBS 49098.3.1 US 301 (Wesleyan Boulevard) at SR 1545 (Bishop Road). Initial Spot Safety construction funds are needed for traffic signal revisions. File 04-19-59331C	\$8,100.00
Rocky Mount/ Nash Co. Div. 4 SS-6004H	WBS 49098.1.1 US 301 (Wesleyan Boulevard) at SR 1545 (Bishop Road). Initial Spot Safety preliminary engineering funds are needed for traffic signal revisions. File 04-19-59331P	\$4,500.00

March 5, 2020

**NCDOT March 2020 Board of Transportation Agenda
Approval of Funds for Specific Spot Safety Improvement Projects
and for Specific Spot Mobility Projects**

L-5

**According to Executive Order No. 2 and G.S. 143B-350(g) the Board is requested to
concur with staff recommendations and delegate authority to the Secretary to approve
Funds for Specific Spot Safety and Spot Mobility Improvement Projects**

Town/ County Division PROJ. CATEGORY	Project Description	Estimated Cost
Durham/ Durham Co. Div. 5 SS-6005G	WBS 49104.3.1 SR 1669 (East Club Boulevard) from Glenbrook Road to Ambridge Street. Initial Spot Safety construction funds are needed for sidewalk construction. File 05-19-59422C	\$135,000.00
Raleigh/ Wake Co. Div. 5 SM-5705AK	WBS 49145.3.1 SR 1319 (Jones Franklin Road) at Centerview Drive (southern intersection). Initial Spot Mobility construction funds are needed for traffic signal installation. File 05-19-59277C	\$135,000.00
Raleigh/ Wake Co. Div. 5 SM-5705AK	WBS 49145.1.1 SR 1319 (Jones Franklin Road) at Centerview Drive (southern intersection). Initial Spot Mobility preliminary engineering funds are needed for traffic signal installation. File 05-19-59277P	\$6,000.00
Raleigh/ Wake Co. Div. 5 SM-5705AK	WBS 49145.2.1 SR 1319 (Jones Franklin Road) at Centerview Drive (southern intersection). Initial Spot Mobility right of way and utilities funds are needed for traffic signal installation. File 05-19-59277R	\$2,000.00
Wake Co. Div. 5 SM-5705AL	WBS 49146.3.1 NC 42 at SR 1101 (Piney Grove Wilbon Road). Initial Spot Mobility construction funds are needed for roundabout installation. File 05-19-59376-2C	\$750,000.00

March 5, 2020

NCDOT March 2020 Board of Transportation Agenda
Approval of Funds for Specific Spot Safety Improvement Projects
and for Specific Spot Mobility Projects

L-6

According to Executive Order No. 2 and G.S. 143B-350(g) the Board is requested to concur with staff recommendations and delegate authority to the Secretary to approve Funds for Specific Spot Safety and Spot Mobility Improvement Projects

Town/ County Division PROJ. CATEGORY	Project Description	Estimated Cost
Raleigh/ Wake Co. Div. 5 SM-5705AM	WBS 49153.3.1 US 401 (Louisburg Road) at Fox Road; SR 2041 (Spring Forest Road) at SR 2042 (Fox Road); SR 2042 (Fox Road) at Sumner Blvd/Malone Court; SR 1829 (Strickland Road) at Old Leesville Road; and SR 1009 (Lake Wheeler Road) at Sierra Drive. Initial Spot Mobility construction funds are needed for traffic signal revisions. File 05-19-59482C	\$120,000.00
Wake Co. Div. 5 SM-5705AM	WBS 49153.1.1 US 401 (Louisburg Road) at Fox Road; SR 2041 (Spring Forest Road) at SR 2042 (Fox Road); SR 2042 (Fox Road) at Sumner Blvd/Malone Court; SR 1829 (Strickland Road) at Old Leesville Road; and SR 1009 (Lake Wheeler Road) at Sierra Drive. Initial Spot Mobility preliminary engineering funds are needed for traffic signal revisions. File 05-19-59482P	\$15,000.00
Wake Co. Div. 5 SS-6005H	WBS 49105.1.1 SR 2506 (Major Slade Road) at SR 2507 (Turnipseed Road). Initial Spot Safety preliminary engineering funds are needed for All Way Stop installation. File 05-19-59425P	\$900.00
Wake Co. Div. 5 SS-6005H	WBS 49105.3.1 SR 2506 (Major Slade Road) at SR 2507 (Turnipseed Road). Initial Spot Safety construction funds are needed for All Way Stop installation. File 05-19-59425C	\$13,500.00
Wake Co. Div. 5 SS-6005I	WBS 49109.3.1 NC 42 at SR 1101 (Piney Grove Wilbon Road). Initial Spot Safety construction funds are needed for traffic signal revisions. File 05-19-59376-3C	\$9,000.00

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**NCDOT March 2020 Board of Transportation Agenda
Approval of Funds for Specific Spot Safety Improvement Projects
and for Specific Spot Mobility Projects**

L-7

According to Executive Order No. 2 and G.S. 143B-350(g) the Board is requested to concur with staff recommendations and delegate authority to the Secretary to approve Funds for Specific Spot Safety and Spot Mobility Improvement Projects

Town/ County Division PROJ. CATEGORY	Project Description	Estimated Cost
Wake Co. Div. 5 SS-6005I	WBS 49109.1.1 NC 42 at SR 1101 (Piney Grove Wilbon Road). Initial Spot Safety preliminary engineering funds are needed for traffic signal revisions. File 05-19-59376-3P	\$2,700.00
Warren Co. Div. 5 SS-6005F	WBS 49103.3.1 US 158 at SR 1305 (Warren Plains Road). Initial Spot Safety construction funds are needed for All Way Stop installation. File 05-19-59423C	\$13,500.00
Warren Co. Div. 5 SS-6005F	WBS 49103.1.1 US 158 at SR 1305 (Warren Plains Road). Initial Spot Safety preliminary engineering funds are needed for All Way Stop installation. File 05-19-59423P	\$2,700.00
Columbus Co. Div. 6 SS-6006K	WBS 49112.3.1 NC 11 at SR 1740 (Old Lake Road). Initial Spot Safety construction funds are needed for All Way Stop installation. File 06-19-58737-1C	\$40,500.00
Columbus Co. Div. 6 SS-6006K	WBS 49112.1.1 NC 11 at SR 1740 (Old Lake Road). Initial Spot Safety preliminary engineering funds are needed for All Way Stop installation. File 06-19-58737-1P	\$900.00

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**NCDOT March 2020 Board of Transportation Agenda
Approval of Funds for Specific Spot Safety Improvement Projects
and for Specific Spot Mobility Projects**

L-8

**According to Executive Order No. 2 and G.S. 143B-350(g) the Board is requested to
concur with staff recommendations and delegate authority to the Secretary to approve
Funds for Specific Spot Safety and Spot Mobility Improvement Projects**

Town/ County Division PROJ. CATEGORY	Project Description	Estimated Cost
Fayetteville/ Cumberland Co. Div. 6 SS-6006N	WBS 49139.3.1 I-95 Bus./US 301 (Eastern Boulevard) between Person Street and NC 24/210 (Grove Street). Initial Spot Safety construction funds are needed for installation of midblock pedestrian crossing with Rectangular Rapid Flashing Beacons, and median island and sidewalk revisions. File 06-19-58837C	\$57,600.00
Fayetteville/ Cumberland Co. Div. 6 SS-6006N	WBS 49139.2.1 I-95 Bus./US 301 (Eastern Boulevard) between Person Street and NC 24/210 (Grove Street). Initial Spot Safety right of way and utilities funds are needed for installation of midblock pedestrian crossing with Rectangular Rapid Flashing Beacons, and median island and sidewalk revisions. File 06-19-58837R	\$4,500.00
Fayetteville/ Cumberland Co. Div. 6 SS-6006N	WBS 49139.1.1 I-95 Bus./US 301 (Eastern Boulevard) between Person Street and NC 24/210 (Grove Street). Initial Spot Safety preliminary engineering funds are needed for installation of midblock pedestrian crossing with Rectangular Rapid Flashing Beacons, and median island and sidewalk revisions. File 06-19-58837P	\$900.00
Angier/ Harnett Co. Div. 6 SM-5706H	WBS 49154.1.1 NC 55 (Raleigh Street) at NC 210 (Depot Street). Initial Spot Mobility preliminary engineering funds are needed for signalized pedestrian crossing installation. File 06-18-54452P	\$1,000.00
Angier/ Harnett Co. Div. 6 SM-5706H	WBS 49154.3.1 NC 55 (Raleigh Street) at NC 210 (Depot Street). Initial Spot Mobility construction funds are needed for signalized pedestrian crossing installation. File 06-18-54452C	\$9,000.00

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Approval of Funds for Specific Spot Safety Improvement Projects
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**According to Executive Order No. 2 and G.S. 143B-350(g) the Board is requested to
concur with staff recommendations and delegate authority to the Secretary to approve
Funds for Specific Spot Safety and Spot Mobility Improvement Projects**

Town/ County Division PROJ. CATEGORY	Project Description	Estimated Cost
Angier/ Harnett Co. Div. 6 SM-5706I	WBS 49155.3.1 NC 210 (Depot Street) at Broad Street; Town of Angier. Initial Spot Mobility construction funds are needed for signalized pedestrian crossing installation. File 06-18-54454C	\$9,000.00
Angier/ Harnett Co. Div. 6 SM-5706I	WBS 49155.1.1 NC 210 (Depot Street) at Broad Street; Town of Angier. Initial Spot Mobility preliminary engineering funds are needed for signalized pedestrian crossing installation. File 06-18-54454P	\$1,000.00
Harnett Co. Div. 6 SS-6006I	WBS 49110.3.1 SR 1115 (Buffalo Lake Road) at SR 1141 (Alpine Road). Initial Spot Safety construction funds are needed for All Way Stop installation. File 06-19-58801-1C	\$17,100.00
Harnett Co. Div. 6 SS-6006I	WBS 49110.1.1 SR 1115 (Buffalo Lake Road) at SR 1141 (Alpine Road). Initial Spot Safety preliminary engineering funds are needed for All Way Stop installation. File 06-19-58801-1P	\$900.00
Harnett Co. Div. 6 SS-6006J	WBS 49111.3.1 NC 55 at SR 1006 (Old Stage Road). Initial Spot Safety construction funds are needed for All Way Stop installation. File 06-19-58968C	\$29,700.00

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**According to Executive Order No. 2 and G.S. 143B-350(g) the Board is requested to
concur with staff recommendations and delegate authority to the Secretary to approve
Funds for Specific Spot Safety and Spot Mobility Improvement Projects**

Town/ County Division PROJ. CATEGORY	Project Description	Estimated Cost
Harnett Co. Div. 6 SS-6006J	WBS 49111.1.1 NC 55 at SR 1006 (Old Stage Road). Initial Spot Safety preliminary engineering funds are needed for All Way Stop installation. File 06-19-58968P	\$900.00
Harnett Co. Div. 6 SS-6006J	WBS 49111.2.1 NC 55 at SR 1006 (Old Stage Road). Initial Spot Safety right of way and utilities funds are needed for All Way Stop installation. File 06-19-58968R	\$1,800.00
Harnett Co. Div. 6 SS-6006L	WBS 49113.2.1 NC 55 at SR 1532 (Oak Grove Church). Initial Spot Safety right of way and utilities funds are needed for All Way Stop installation. File 06-19-57580R	\$1,800.00
Harnett Co. Div. 6 SS-6006L	WBS 49113.1.1 NC 55 at SR 1532 (Oak Grove Church). Initial Spot Safety preliminary engineering funds are needed for All Way Stop installation. File 06-19-57580P	\$2,700.00
Harnett Co. Div. 6 SS-6006L	WBS 49113.3.1 NC 55 at SR 1532 (Oak Grove Church). Initial Spot Safety construction funds are needed for All Way Stop installation. File 06-19-57580C	\$27,900.00

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According to Executive Order No. 2 and G.S. 143B-350(g) the Board is requested to concur with staff recommendations and delegate authority to the Secretary to approve Funds for Specific Spot Safety and Spot Mobility Improvement Projects

Town/ County Division PROJ. CATEGORY	Project Description	Estimated Cost
Robeson Co. Div. 6 SS-6006M	WBS 49114.2.1 US 74 at NC 72. Initial Spot Safety right of way and utilities funds are needed for installation of dual-posted 48 intersection warning signs with solar flashers. File 06-19-57479R	\$1,800.00
Robeson Co. Div. 6 SS-6006M	WBS 49114.1.1 US 74 at NC 72. Initial Spot Safety preliminary engineering funds are needed for installation of dual-posted 48 intersection warning signs with solar flashers. File 06-19-57479P	\$900.00
Robeson Co. Div. 6 SS-6006M	WBS 49114.3.1 US 74 at NC 72. Initial Spot Safety construction funds are needed for installation of dual-posted 48 intersection warning signs with solar flashers. File 06-19-57479C	\$11,700.00
Alamance Co. Div. 7 SS-6007G	WBS 49117.1.1 NC 49 at SR 1130 (Friendship Patterson Mill Road) south of Burlington. Initial Spot Safety preliminary engineering funds are needed for overhead flasher installation. File 07-19-9439P	\$1,800.00
Alamance Co. Div. 7 SS-6007G	WBS 49117.3.1 NC 49 at SR 1130 (Friendship Patterson Mill Road) south of Burlington. Initial Spot Safety construction funds are needed for overhead flasher installation. File 07-19-9439C	\$9,900.00

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According to Executive Order No. 2 and G.S. 143B-350(g) the Board is requested to concur with staff recommendations and delegate authority to the Secretary to approve Funds for Specific Spot Safety and Spot Mobility Improvement Projects

Town/ County Division PROJ. CATEGORY	Project Description	Estimated Cost
Burlington/ Alamance Co. Div. 7 SS-6007H	WBS 49118.3.1 NC 62 (Rauhut Street) at SR 1537 (Sharpe Road). Initial Spot Safety construction funds are needed for installation of pedestrian countdown heads at two existing crosswalks. File 07-19-9135C	\$20,700.00
Burlington/ Alamance Co. Div. 7 SS-6007H	WBS 49118.1.1 NC 62 (Rauhut Street) at SR 1537 (Sharpe Road). Initial Spot Safety preliminary engineering funds are needed for installation of pedestrian countdown heads at two existing crosswalks. File 07-19-9135P	\$4,500.00
Guilford Co. Div. 7 SM-5707I	WBS 49147.3.1 NC 61 at I-85 NB/I-40 EB ramps south of Whitsett. Initial Spot Mobility construction funds are needed for traffic signal installation. File 07-19-9248C	\$100,000.00
Guilford Co. Div. 7 SM-5707I	WBS 49147.2.1 NC 61 at I-85 NB/I-40 EB ramps south of Whitsett. Initial Spot Mobility right of way and utilities funds are needed for traffic signal installation. File 07-19-9248R	\$5,000.00
Guilford Co. Div. 7 SM-5707I	WBS 49147.1.1 NC 61 at I-85 NB/I-40 EB ramps south of Whitsett. Initial Spot Mobility preliminary engineering funds are needed for traffic signal installation. File 07-19-9248P	\$5,000.00

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According to Executive Order No. 2 and G.S. 143B-350(g) the Board is requested to concur with staff recommendations and delegate authority to the Secretary to approve Funds for Specific Spot Safety and Spot Mobility Improvement Projects

Town/ County Division PROJ. CATEGORY	Project Description	Estimated Cost
Guilford Co. Div. 7 SS-6007F	WBS 49116.3.1 SR 1005 (Alamance Church Road) at SR 3093 (Old Julian Road) southeast of Greensboro. Initial Spot Safety construction funds are needed for All Way Stop and overhead red flasher installation. File 07-19-9461C	\$27,900.00
Guilford Co. Div. 7 SS-6007F	WBS 49116.2.1 SR 1005 (Alamance Church Road) at SR 3093 (Old Julian Road) southeast of Greensboro. Initial Spot Safety right of way and utilities funds are needed for All Way Stop and overhead red flasher installation. File 07-19-9461R	\$900.00
Guilford Co. Div. 7 SS-6007F	WBS 49116.1.1 SR 1005 (Alamance Church Road) at SR 3093 (Old Julian Road) southeast of Greensboro. Initial Spot Safety preliminary engineering funds are needed for All Way Stop and overhead red flasher installation. File 07-19-9461P	\$3,600.00
Greensboro/ Guilford Co. Div. 7 SS-6007I	WBS 49119.3.1 SR 1115 (Rehobeth Church Road) at West Vandalia Road. Initial Spot Safety construction funds are needed for traffic signal revisions. File 07-19-9128C	\$4,500.00
Greensboro/ Guilford Co. Div. 7 SS-6007I	WBS 49119.1.1 SR 1115 (Rehobeth Church Road) at West Vandalia Road. Initial Spot Safety preliminary engineering funds are needed for traffic signal revisions. File 07-19-9128P	\$900.00

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According to Executive Order No. 2 and G.S. 143B-350(g) the Board is requested to concur with staff recommendations and delegate authority to the Secretary to approve Funds for Specific Spot Safety and Spot Mobility Improvement Projects

Town/ County Division PROJ. CATEGORY	Project Description	Estimated Cost
Guilford Co. Div. 7 SS-6007J	WBS 49156.3.1 SR 3336 (Coble Church Road) at SR 3093 (Old Julian Road). Initial Spot Safety construction funds are needed for All Way Stop with overhead flashing beacon installation. File 07-19-9132C	\$26,280.00
Guilford Co. Div. 7 SS-6007J	WBS 49156.1.1 SR 3336 (Coble Church Road) at SR 3093 (Old Julian Road). Initial Spot Safety preliminary engineering funds are needed for All Way Stop with overhead flashing beacon installation. File 07-19-9132P	\$3,420.00
Guilford Co. Div. 7 SS-6007J	WBS 49156.2.1 SR 3336 (Coble Church Road) at SR 3093 (Old Julian Road). Initial Spot Safety right of way and utilities funds are needed for All Way Stop with overhead flashing beacon installation. File 07-19-9132R	\$40,500.00
Orange Co. Div. 7 SS-6007E	WBS 49115.1.1 SR 1005 (Old Greensboro Road) at SR 1956 (Crawford Dairy Road/Orange Chapel Clover Garden Road). Initial Spot Safety preliminary engineering funds are needed for All Way Stop installation and flashing beacon revisions. File 07-19-9114P	\$2,700.00
Orange Co. Div. 7 SS-6007E	WBS 49115.3.1 SR 1005 (Old Greensboro Road) at SR 1956 (Crawford Dairy Road/Orange Chapel Clover Garden Road). Initial Spot Safety construction funds are needed for All Way Stop installation and flashing beacon revisions. File 07-19-9114C	\$28,800.00

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**According to Executive Order No. 2 and G.S. 143B-350(g) the Board is requested to
concur with staff recommendations and delegate authority to the Secretary to approve
Funds for Specific Spot Safety and Spot Mobility Improvement Projects**

Town/ County Division PROJ. CATEGORY	Project Description	Estimated Cost
Chatham Co. Div. 8 SS-6008H	WBS 49157.2.1 US 15-501 at SR 1721 (Lystra Road). Initial Spot Safety right of way and utilities funds are needed for left turn lane revisions. File 08-19-59426R	\$900.00
Chatham Co. Div. 8 SS-6008H	WBS 49157.1.1 US 15-501 at SR 1721 (Lystra Road). Initial Spot Safety preliminary engineering funds are needed for left turn lane revisions. File 08-19-59426P	\$4,500.00
Chatham Co. Div. 8 SS-6008H	WBS 49157.3.1 US 15-501 at SR 1721 (Lystra Road). Initial Spot Safety construction funds are needed for left turn lane revisions. File 08-19-59426C	\$31,500.00
Moore Co. Div. 8 SS-6008G	WBS 49120.3.1 SR 1802 at SR 1843, SR 1802 at SR 1831, and SR 1803 at SR 1831. Initial Spot Safety construction funds are needed for All Way Stop installations. File 08-19-59421C	\$54,000.00
Moore Co. Div. 8 SS-6008G	WBS 49120.1.1 SR 1802 at SR 1843, SR 1802 at SR 1831, and SR 1803 at SR 1831. Initial Spot Safety preliminary engineering funds are needed for All Way Stop installations. File 08-19-59421P	\$2,700.00

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**According to Executive Order No. 2 and G.S. 143B-350(g) the Board is requested to
concur with staff recommendations and delegate authority to the Secretary to approve
Funds for Specific Spot Safety and Spot Mobility Improvement Projects**

Town/ County Division PROJ. CATEGORY	Project Description	Estimated Cost
Davie Co. Div. 9 SS-6009E	WBS 49121.3.1 NC 801 at SR 1410 (Farmington Road). Initial Spot Safety construction funds are needed for All Way Stop installation and overhead flasher revision. File 09-19-9152C	\$16,200.00
Davie Co. Div. 9 SS-6009E	WBS 49121.1.1 NC 801 at SR 1410 (Farmington Road). Initial Spot Safety preliminary engineering funds are needed for All Way Stop installation and overhead flasher revision. File 09-19-9152P	\$2,700.00
Forsyth Co. Div. 9 SS-6009F	WBS 49140.1.1 US 158 at SR 2991 (Fraternity Church Road) southwest of Winston-Salem. Initial Spot Safety preliminary engineering funds are needed for traffic signal revisions, and advance warning sign/flasher assembly installation. File 09-19-9465P	\$4,500.00
Forsyth Co. Div. 9 SS-6009F	WBS 49140.3.1 US 158 at SR 2991 (Fraternity Church Road) southwest of Winston-Salem. Initial Spot Safety construction funds are needed for traffic signal revisions, and advance warning sign/flasher assembly installation. File 09-19-9465C	\$85,500.00
Wadesboro/ Anson Co. Div. 10 SS-6010G	WBS 49123.1.1 US 52 North at US 74, and US 52 South at US 74. Initial Spot Safety preliminary engineering funds are needed for traffic signal and pavement marking revisions. File 10-19-231P	\$2,700.00

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According to Executive Order No. 2 and G.S. 143B-350(g) the Board is requested to concur with staff recommendations and delegate authority to the Secretary to approve Funds for Specific Spot Safety and Spot Mobility Improvement Projects

Town/ County Division PROJ. CATEGORY	Project Description	Estimated Cost
Wadesboro/ Anson Co. Div. 10 SS-6010G	WBS 49123.3.1 US 52 North at US 74, and US 52 South at US 74. Initial Spot Safety construction funds are needed for traffic signal and pavement marking revisions. File 10-19-231C	\$9,000.00
Anson Co. Div. 10 SS-6010H	WBS 49124.1.1 NC 218 and SR 1002 (Mitchum Road/New Home Church Road). Initial Spot Safety preliminary engineering funds are needed for All Way Stop installation. File 10-19-217P	\$2,700.00
Anson Co. Div. 10 SS-6010H	WBS 49124.3.1 NC 218 and SR 1002 (Mitchum Road/New Home Church Road). Initial Spot Safety construction funds are needed for All Way Stop installation. File 10-19-217C	\$13,500.00
Anson Co. Div. 10 SS-6010J	WBS 49122.3.1 NC 742 and SR 1418 (Ansonville Polkton Road). Initial Spot Safety construction funds are needed for All Way Stop installation. File 10-19-229C	\$13,500.00
Anson Co. Div. 10 SS-6010J	WBS 49122.1.1 NC 742 and SR 1418 (Ansonville Polkton Road). Initial Spot Safety preliminary engineering funds are needed for All Way Stop installation. File 10-19-229P	\$2,700.00

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According to Executive Order No. 2 and G.S. 143B-350(g) the Board is requested to concur with staff recommendations and delegate authority to the Secretary to approve Funds for Specific Spot Safety and Spot Mobility Improvement Projects

Town/ County Division PROJ. CATEGORY	Project Description	Estimated Cost
Union Co. Div. 10 SS-6010I	WBS 49125.3.1 SR 1627 (New Salem Road) and SR 1658 (New Hope Church Road). Initial Spot Safety construction funds are needed for All Way Stop installation. File 10-19-230C	\$18,000.00
Union Co. Div. 10 SS-6010I	WBS 49125.1.1 SR 1627 (New Salem Road) and SR 1658 (New Hope Church Road). Initial Spot Safety preliminary engineering funds are needed for All Way Stop installation. File 10-19-230P	\$2,700.00
Sparta/ Alleghany Co. Div. 11 SS-6011B	WBS 49126.3.1 NC 18 (Whitehead Street) at SR 1206 (Sparta Parkway). Initial Spot Safety construction funds are needed for warning sign and pavement marking installations. File 11-19-208C	\$9,000.00
Sparta/ Alleghany Co. Div. 11 SS-6011B	WBS 49126.1.1 NC 18 (Whitehead Street) at SR 1206 (Sparta Parkway). Initial Spot Safety preliminary engineering funds are needed for warning sign and pavement marking installations. File 11-19-208P	\$4,500.00
Ashe Co. Div. 11 SS-6011D	WBS 49141.1.1 NC 163 at SR 1155 (Frank Dillard Road). Initial Spot Safety preliminary engineering funds are needed for sight distance improvements. File 11-19-203P	\$41,400.00

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According to Executive Order No. 2 and G.S. 143B-350(g) the Board is requested to concur with staff recommendations and delegate authority to the Secretary to approve Funds for Specific Spot Safety and Spot Mobility Improvement Projects

Town/ County Division PROJ. CATEGORY	Project Description	Estimated Cost
Ashe Co. Div. 11 SS-6011D	WBS 49141.2.1 NC 163 at SR 1155 (Frank Dillard Road). Initial Spot Safety right of way and utilities funds are needed for sight distance improvements. File 11-19-203R	\$99,000.00
Ashe Co. Div. 11 SS-6011D	WBS 49141.3.1 NC 163 at SR 1155 (Frank Dillard Road). Initial Spot Safety construction funds are needed for sight distance improvements. File 11-19-203C	\$174,600.00
Mount Airy/ Surry Co. Div. 11 SS-6011C	WBS 49127.3.1 NC 89 (Independence Boulevard) at SR 1669 (South Street). Initial Spot Safety construction funds are needed for traffic signal revisions and warning sign installation. File 11-19-207C	\$4,500.00
Mount Airy/ Surry Co. Div. 11 SS-6011C	WBS 49127.1.1 NC 89 (Independence Boulevard) at SR 1669 (South Street). Initial Spot Safety preliminary engineering funds are needed for traffic signal revisions and warning sign installation. File 11-19-207P	\$4,500.00
Surry Co. Div. 11 SS-6011E	WBS 49142.3.1 SR 2053 (Pilot Mountain Park Road) from MP 0.2 to MP 0.34. Initial Spot Safety construction funds are needed for guardrail installation. File 11-19-205C	\$16,200.00

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According to Executive Order No. 2 and G.S. 143B-350(g) the Board is requested to concur with staff recommendations and delegate authority to the Secretary to approve Funds for Specific Spot Safety and Spot Mobility Improvement Projects

Town/ County Division PROJ. CATEGORY	Project Description	Estimated Cost
Surry Co. Div. 11 SS-6011E	WBS 49142.1.1 SR 2053 (Pilot Mountain Park Road) from MP 0.2 to MP 0.34. Initial Spot Safety preliminary engineering funds are needed for guardrail installation. File 11-19-205P	\$2,700.00
Surry Co. Div. 11 SS-6011E	WBS 49142.2.1 SR 2053 (Pilot Mountain Park Road) from MP 0.2 to MP 0.34. Initial Spot Safety right of way and utilities funds are needed for guardrail installation. File 11-19-205R	\$8,100.00
Alexander Co. Div. 12 SM-5712I	WBS 49148.2.1 West Alexander Middle School on SR 1144 (Icard Ridge Road) at SR 1853 (Bulldog Lane). Initial Spot Mobility right of way and utilities funds are needed for improvements to the internal queuing capacity of the school to allow all school traffic to be contained within the school property and not queued up on adjacent roads. File 12-19-212R	\$1,000.00
Alexander Co. Div. 12 SM-5712I	WBS 49148.1.1 West Alexander Middle School on SR 1144 (Icard Ridge Road) at SR 1853 (Bulldog Lane). Initial Spot Mobility preliminary engineering funds are needed for improvements to the internal queuing capacity of the school to allow all school traffic to be contained within the school property and not queued up on adjacent roads. File 12-19-212P	\$5,000.00

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According to Executive Order No. 2 and G.S. 143B-350(g) the Board is requested to concur with staff recommendations and delegate authority to the Secretary to approve Funds for Specific Spot Safety and Spot Mobility Improvement Projects

Town/ County Division PROJ. CATEGORY	Project Description	Estimated Cost
Alexander Co. Div. 12 SM-5712I	WBS 49148.3.1 West Alexander Middle School on SR 1144 (Icard Ridge Road) at SR 1853 (Bulldog Lane). Initial Spot Mobility construction funds are needed for improvements to the internal queuing capacity of the school to allow all school traffic to be contained within the school property and not queued up on adjacent roads. File 12-19-212C	\$44,000.00
Alexander Co. Div. 12 SM-5712J	WBS 49149.2.1 East Alexander Middle School on SR 1422 (White Plains Road) at Bulldog Lane. Initial Spot Mobility right of way and utilities funds are needed for improvements to the internal queuing capacity of the school to allow all school traffic to be contained within the school property and not queued up on adjacent roads. File 12-19-213R	\$1,000.00
Alexander Co. Div. 12 SM-5712J	WBS 49149.1.1 East Alexander Middle School on SR 1422 (White Plains Road) at Bulldog Lane. Initial Spot Mobility preliminary engineering funds are needed for improvements to the internal queuing capacity of the school to allow all school traffic to be contained within the school property and not queued up on adjacent roads. File 12-19-213P	\$3,000.00
Alexander Co. Div. 12 SM-5712J	WBS 49149.3.1 East Alexander Middle School on SR 1422 (White Plains Road) at Bulldog Lane. Initial Spot Mobility construction funds are needed for improvements to the internal queuing capacity of the school to allow all school traffic to be contained within the school property and not queued up on adjacent roads. File 12-19-213C	\$86,000.00
Hickory/ Catawba Co. Div. 12 SM-5712L	WBS 49151.1.1 Jenkins Elementary on NC 127 (North Center Street) at 38th Avenue NW/Jenkins Elementary Road. Initial Spot Mobility preliminary engineering funds are needed for traffic signal revisions and improvements to the internal queuing capacity of the school to allow all school traffic to be contained within the school property and not queued up on adjacent roads. File 12-19-216P	\$5,000.00

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According to Executive Order No. 2 and G.S. 143B-350(g) the Board is requested to concur with staff recommendations and delegate authority to the Secretary to approve Funds for Specific Spot Safety and Spot Mobility Improvement Projects

Town/ County Division PROJ. CATEGORY	Project Description	Estimated Cost
Hickory/ Catawba Co. Div. 12 SM-5712L	WBS 49151.3.1 Jenkins Elementary on NC 127 (North Center Street) at 38th Avenue NW/Jenkins Elementary Road. Initial Spot Mobility construction funds are needed for traffic signal revisions and improvements to the internal queuing capacity of the school to allow all school traffic to be contained within the school property and not queued up on adjacent roads. File 12-19-216C	\$88,000.00
Hickory/ Catawba Co. Div. 12 SM-5712L	WBS 49151.2.1 Jenkins Elementary on NC 127 (North Center Street) at 38th Avenue NW/Jenkins Elementary Road. Initial Spot Mobility right of way and utilities funds are needed for traffic signal revisions and improvements to the internal queuing capacity of the school to allow all school traffic to be contained within the school property and not queued up on adjacent roads. File 12-19-216R	\$17,000.00
Cleveland Co. Div. 12 SS-6012F	WBS 49130.3.1 SR 1149 (Patrick Avenue) from NC 150 (College Avenue) to School Road. Initial Spot Safety construction funds are needed for guardrail and snowplowable pavement markers installation. File 12-19-204C	\$90,000.00
Cleveland Co. Div. 12 SS-6012F	WBS 49130.1.1 SR 1149 (Patrick Avenue) from NC 150 (College Avenue) to School Road. Initial Spot Safety preliminary engineering funds are needed for guardrail and snowplowable pavement markers installation. File 12-19-204P	\$9,000.00
Gaston Co. Div. 12 SS-6012D	WBS 49128.3.1 NC 279 (New Hope Road) at SR 1255 (Hudson Boulevard)/SR 2478 (Titman Road). Initial Spot Safety construction funds are needed for traffic signal revisions and installation of pedestrian heads for existing crosswalks. File 12-19-214C	\$33,300.00

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According to Executive Order No. 2 and G.S. 143B-350(g) the Board is requested to concur with staff recommendations and delegate authority to the Secretary to approve Funds for Specific Spot Safety and Spot Mobility Improvement Projects

Town/ County Division PROJ. CATEGORY	Project Description	Estimated Cost
Gaston Co. Div. 12 SS-6012D	WBS 49128.1.1 NC 279 (New Hope Road) at SR 1255 (Hudson Boulevard)/ SR 2478 (Titman Road). Initial Spot Safety preliminary engineering funds are needed for traffic signal revisions and installation of pedestrian heads for existing crosswalks. File 12-19-214P	\$4,500.00
Gaston Co. Div. 12 SS-6012E	WBS 49129.3.1 SR 2519 (Armstrong Ford Road) in the vicinity of SR 2518 (Hills Road). Initial Spot Safety construction funds are needed for rumble strips and snowplowable pavement markers with long life pavement markings installation. File 12-19-217C	\$76,500.00
Gaston Co. Div. 12 SS-6012E	WBS 49129.1.1 SR 2519 (Armstrong Ford Road) in the vicinity of SR 2518 (Hills Road). Initial Spot Safety preliminary engineering funds are needed for rumble strips and snowplowable pavement markers with long life pavement markings installation. File 12-19-217P	\$4,500.00
Gaston Co. Div. 12 SS-6012G	WBS 49143.1.1 SR 2200 (Ranlo-Spencer Mountain Road) from Ranlo Municipal limits to SR 2003 (Main Street). Initial Spot Safety preliminary engineering funds are needed for installation of rumble strips, pavement markings, and snowplowable markers. File 12-19-205P	\$9,000.00
Gaston Co. Div. 12 SS-6012G	WBS 49143.3.1 SR 2200 (Ranlo-Spencer Mountain Road) from Ranlo Municipal limits to SR 2003 (Main Street). Initial Spot Safety construction funds are needed for installation of rumble strips, pavement markings, and snowplowable markers. File 12-19-205C	\$117,000.00

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According to Executive Order No. 2 and G.S. 143B-350(g) the Board is requested to concur with staff recommendations and delegate authority to the Secretary to approve Funds for Specific Spot Safety and Spot Mobility Improvement Projects

Town/ County Division PROJ. CATEGORY	Project Description	Estimated Cost
Statesville/ Iredell Co. Div. 12 SM-5712K	WBS 49150.3.1 Cornerstone Christian Academy on SR 2414 (Scotts Road). Initial Spot Mobility construction funds are needed for improvements to the internal queuing capacity of the school to allow all school traffic to be contained within the school property and not queued up on adjacent roads. File 12-19-215C	\$55,000.00
Statesville/ Iredell Co. Div. 12 SM-5712K	WBS 49150.1.1 Cornerstone Christian Academy on SR 2414 (Scotts Road). Initial Spot Mobility preliminary engineering funds are needed for improvements to the internal queuing capacity of the school to allow all school traffic to be contained within the school property and not queued up on adjacent roads. File 12-19-215P	\$4,000.00
Statesville/ Iredell Co. Div. 12 SM-5712K	WBS 49150.2.1 Cornerstone Christian Academy on SR 2414 (Scotts Road). Initial Spot Mobility right of way and utilities funds are needed for improvements to the internal queuing capacity of the school to allow all school traffic to be contained within the school property and not queued up on adjacent roads. File 12-19-215R	\$1,000.00
Asheville/ Buncombe Co. Div. 13 SS-6013E	WBS 49132.2.1 I-240 Westbound Off-Ramp at US 70 Eastbound Ramp (Exit 7). Initial Spot Safety right of way and utilities funds are needed for traffic signal revisions. File 13-19-217R	\$1,800.00
Asheville/ Buncombe Co. Div. 13 SS-6013E	WBS 49132.1.1 I-240 Westbound Off-Ramp at US 70 Eastbound Ramp (Exit 7). Initial Spot Safety preliminary engineering funds are needed for traffic signal revisions. File 13-19-217P	\$4,500.00

March 5, 2020

**NCDOT March 2020 Board of Transportation Agenda
Approval of Funds for Specific Spot Safety Improvement Projects
and for Specific Spot Mobility Projects**

L-25

**According to Executive Order No. 2 and G.S. 143B-350(g) the Board is requested to
concur with staff recommendations and delegate authority to the Secretary to approve
Funds for Specific Spot Safety and Spot Mobility Improvement Projects**

Town/ County Division PROJ. CATEGORY	Project Description	Estimated Cost
Asheville/ Buncombe Co. Div. 13 SS-6013E	WBS 49132.3.1 I-240 Westbound Off-Ramp at US 70 Eastbound Ramp (Exit 7). Initial Spot Safety construction funds are needed for traffic signal revisions. File 13-19-217C	\$9,000.00
Division 13 Div. 13 SM-5713H	WBS 48713.3.1 Division 13. Reimbursements for road improvements adjacent to schools per GS 136-18(29a). \$500,000 in Spot Mobility construction funds has previously been approved. Additional funds are needed due to additional reimbursements. File 13-19-001-1	\$1,000,000.00
McDowell Co. Div. 13 SS-6013F	WBS 49133.2.1 US 221 at SR 1573 (Pitts Station Road)/SR 1566 (Peppers Creek Road) near Marion. Initial Spot Safety right of way and utilities funds are needed for traffic signal revisions. File 13-19-219R	\$1,800.00
McDowell Co. Div. 13 SS-6013F	WBS 49133.3.1 US 221 at SR 1573 (Pitts Station Road)/SR 1566 (Peppers Creek Road) near Marion. Initial Spot Safety construction funds are needed for traffic signal revisions. File 13-19-219C	\$27,000.00
McDowell Co. Div. 13 SS-6013F	WBS 49133.1.1 US 221 at SR 1573 (Pitts Station Road)/SR 1566 (Peppers Creek Road) near Marion. Initial Spot Safety preliminary engineering funds are needed for traffic signal revisions. File 13-19-219P	\$4,500.00

March 5, 2020

NCDOT March 2020 Board of Transportation Agenda
Approval of Funds for Specific Spot Safety Improvement Projects
and for Specific Spot Mobility Projects

L-26

According to Executive Order No. 2 and G.S. 143B-350(g) the Board is requested to concur with staff recommendations and delegate authority to the Secretary to approve Funds for Specific Spot Safety and Spot Mobility Improvement Projects

Town/ County Division PROJ. CATEGORY	Project Description	Estimated Cost
Rutherford Co. Div. 13 SM-5713J	WBS 49152.1.1 SR 1576 (East High Road) at East Rutherford High School. Initial Spot Mobility preliminary engineering funds are needed for improvements to the internal queuing capacity of the school to allow all school traffic to be contained within the school property and not queued up on adjacent roads. File 13-19-221P	\$15,000.00
Rutherford Co. Div. 13 SM-5713J	WBS 49152.3.1 SR 1576 (East High Road) at East Rutherford High School. Initial Spot Mobility construction funds are needed for improvements to the internal queuing capacity of the school to allow all school traffic to be contained within the school property and not queued up on adjacent roads. File 13-19-221C	\$125,000.00
Yancey Co. Div. 13 SS-6013D	WBS 49131.3.1 US 19E at SR 1121 (Prices Creek Road) near Burnsville. Initial Spot Safety construction funds are needed for traffic signal installation. File 13-19-216C	\$40,500.00
Yancey Co. Div. 13 SS-6013D	WBS 49131.1.1 US 19E at SR 1121 (Prices Creek Road) near Burnsville. Initial Spot Safety preliminary engineering funds are needed for traffic signal installation. File 13-19-216P	\$4,500.00
Yancey Co. Div. 13 SS-6013D	WBS 49131.2.1 US 19E at SR 1121 (Prices Creek Road) near Burnsville. Initial Spot Safety right of way and utilities funds are needed for traffic signal installation. File 13-19-216R	\$1,800.00

March 5, 2020

NCDOT March 2020 Board of Transportation Agenda
Approval of Funds for Specific Spot Safety Improvement Projects
and for Specific Spot Mobility Projects

L-27

According to Executive Order No. 2 and G.S. 143B-350(g) the Board is requested to concur with staff recommendations and delegate authority to the Secretary to approve Funds for Specific Spot Safety and Spot Mobility Improvement Projects

Town/ County Division PROJ. CATEGORY	Project Description	Estimated Cost
Lake Junaluska/ Haywood Co. Div. 14 SS-6014F	WBS 49134.3.1 US 23-74 Westbound near Exit 103 (US 19). Initial Spot Safety construction funds are needed for resurfacing with an open graded friction course. File 14-19-218C	\$162,000.00
Lake Junaluska/ Haywood Co. Div. 14 SS-6014F	WBS 49134.1.1 US 23-74 Westbound near Exit 103 (US 19). Initial Spot Safety preliminary engineering funds are needed for resurfacing with an open graded friction course. File 14-19-218P	\$9,000.00
Lake Junaluska/ Haywood Co. Div. 14 SS-6014F	WBS 49134.2.1 US 23-74 Westbound near Exit 103 (US 19). Initial Spot Safety right of way and utilities funds are needed for resurfacing with an open graded friction course. File 14-19-218R	\$900.00
Henderson Co. Div. 14 SS-6014G	WBS 49135.2.1 SR 1328 (Turnpike Road) near SR 1319. Initial Spot Safety right of way and utilities funds are needed for superelevation improvements. File 14-19-214R	\$900.00
Henderson Co. Div. 14 SS-6014G	WBS 49135.1.1 SR 1328 (Turnpike Road) near SR 1319. Initial Spot Safety preliminary engineering funds are needed for superelevation improvements. File 14-19-214P	\$4,500.00

March 5, 2020

NCDOT March 2020 Board of Transportation Agenda
Approval of Funds for Specific Spot Safety Improvement Projects
and for Specific Spot Mobility Projects

L-28

According to Executive Order No. 2 and G.S. 143B-350(g) the Board is requested to concur with staff recommendations and delegate authority to the Secretary to approve Funds for Specific Spot Safety and Spot Mobility Improvement Projects

Town/ County Division PROJ. CATEGORY	Project Description	Estimated Cost
Henderson Co. Div. 14 SS-6014G	WBS 49135.3.1 SR 1328 (Turnpike Road) near SR 1319. Initial Spot Safety construction funds are needed for superelevation improvements. File 14-19-214C	\$72,000.00
Hendersonville/ Henderson Co. Div. 14 SS-6014H	WBS 49136.1.1 US 176 (Spartanburg Highway) at SR 1783 (Upward Road/North Highland Lake Road). Initial Spot Safety preliminary engineering funds are needed for traffic signal revisions. File 14-19-215P	\$4,500.00
Hendersonville/ Henderson Co. Div. 14 SS-6014H	WBS 49136.2.1 US 176 (Spartanburg Highway) at SR 1783 (Upward Road/North Highland Lake Road). Initial Spot Safety right of way and utilities funds are needed for traffic signal revisions. File 14-19-215R	\$1,800.00
Hendersonville/ Henderson Co. Div. 14 SS-6014H	WBS 49136.3.1 US 176 (Spartanburg Highway) at SR 1783 (Upward Road/North Highland Lake Road). Initial Spot Safety construction funds are needed for traffic signal revisions. File 14-19-215C	\$38,700.00
Henderson Co. Div. 14 SS-6014I	WBS 49137.3.1 US 25 (Hendersonville Road) at SR 2025 (Rockwell Drive) near Fletcher. Initial Spot Safety construction funds are needed for installation of rumblestrips with long life pavement markings and plastic curbing with reflective pylons. File 14-19-216C	\$45,000.00

March 5, 2020

NCDOT March 2020 Board of Transportation Agenda
Approval of Funds for Specific Spot Safety Improvement Projects
and for Specific Spot Mobility Projects

L-29

According to Executive Order No. 2 and G.S. 143B-350(g) the Board is requested to concur with staff recommendations and delegate authority to the Secretary to approve Funds for Specific Spot Safety and Spot Mobility Improvement Projects

Town/ County Division PROJ. CATEGORY	Project Description	Estimated Cost
Henderson Co. Div. 14 SS-6014I	WBS 49137.1.1 US 25 (Hendersonville Road) at SR 2025 (Rockwell Drive) near Fletcher. Initial Spot Safety preliminary engineering funds are needed for installation of rumblestripes with long life pavement markings and plastic curbing with reflective pylons. File 14-19-216P	\$4,500.00
Henderson Co. Div. 14 SS-6014I	WBS 49137.2.1 US 25 (Hendersonville Road) at SR 2025 (Rockwell Drive) near Fletcher. Initial Spot Safety right of way and utilities funds are needed for installation of rumblestripes with long life pavement markings and plastic curbing with reflective pylons. File 14-19-216R	\$900.00
Jackson/ Swain Cos. Div. 14 SS-6014J	WBS 49138.1.1 US 441 from US 74 in Jackson County to US 19 in Swain County near Cherokee. Initial Spot Safety preliminary engineering funds are needed for installation of rumblestripes with long life pavement markings. File 14-19-217P	\$7,200.00
Jackson/ Swain Cos. Div. 14 SS-6014J	WBS 49138.3.1 US 441 from US 74 in Jackson County to US 19 in Swain County near Cherokee. Initial Spot Safety construction funds are needed for installation of rumblestripes with long life pavement markings. File 14-19-217C	\$135,000.00
Jackson/ Swain Cos. Div. 14 SS-6014J	WBS 49138.2.1 US 441 from US 74 in Jackson County to US 19 in Swain County near Cherokee. Initial Spot Safety right of way and utilities funds are needed for installation of rumblestripes with long life pavement markings. File 14-19-217R	\$900.00
ITEM L SUMMARY	144 PROJECTS	\$5,088,200.00

March 5, 2020

**NCDOT March 2020 Board of Transportation Agenda
Approval of Funds for Specific Federal - Aid Projects**

Division 1

Interstate

Town/ County/PROJ CATEGORY	Project Description	Estimated Cost
Martin Co. I-6028B STATEWIDE	47977.3.3, NHPIM-0064(201) Pavement rehabilitation along US 64 / US 13 (Future I-87) from US 64 Alternate to NC 125 in Martin County. Funds are needed for construction based on the estimate from the 12-Month Tentative Letting List published January 17, 2020. This is a two-year cashflow project with \$2,936,500.00 in both FY20 and FY21.	\$5,873,000.00 Cost \$4,698,400.00 Fed. \$1,174,600.00 State

**NCDOT March 2020 Board of Transportation Agenda
Approval of Funds for Specific Federal - Aid Projects**

Division 2

Bridge

Town/ County/PROJ CATEGORY	Project Description	Estimated Cost	
Pitt Co. BR-0119 DIVISION	48828.3.1, Federal No. 2020001 Replace Bridge #109 over Grindle Creek on SR 1514 (Stanton Mill Road). Funds are needed for construction based on the estimate from the 12-Month Tentative Letting List published January 17, 2020. This is a two-year cashflow project with \$250,000.00 in both FY20 and FY21. This is a Federal BUILD GRANT Project. These funds are pending approval from the Federal Highway Administration (FHWA).	\$500,000.00 \$500,000.00	Cost Fed.
Pitt Co. BR-0120 DIVISION	48829.3.1, Federal No. 2020001 Replace Bridge #123 over Meadow Branch on SR 1552 (Tucker Bullock Road). Funds are needed for construction based on the estimate from the 12-Month Tentative Letting List published January 17, 2020. This is a two-year cashflow project with \$450,000.00 in both FY20 and FY21. This is a Federal BUILD GRANT Project. These funds are pending approval from the Federal Highway Administration (FHWA).	\$900,000.00 \$900,000.00	Cost Fed.

**NCDOT March 2020 Board of Transportation Agenda
Approval of Funds for Specific Federal - Aid Projects**

Division 3

Bridge

Town/ County/PROJ CATEGORY	Project Description	Estimated Cost
Brunswick Co. M-0414CA DIVISION	42080.1.128, BRZ-NBIS(017) Municipal Bridge Inspections for two bridges in Leland. Funds are needed for bridge inspections.	\$5,081.00 Cost \$4,064.00 Fed. \$1,017.00 Local
Sampson Co. BR-0121 DIVISION	48830.3.1, Federal No. 2020001 Replace Bridge #178 over Sevenmile Swamp on SR 1804 (Houses Mill Road). Funds are needed for construction based on the estimate from the 12-Month Tentative Letting List published January 17, 2020. This is a two-year cashflow project with \$700,000.00 in both FY20 and FY21. This is a Federal BUILD GRANT Project. These funds are pending approval from the Federal Highway Administration (FHWA).	\$1,400,000.00 Cost \$1,400,000.00 Fed.
Sampson Co. BR-0122 DIVISION	48831.3.1, Federal No. 0202001 Replace Bridge #348 over Beaverdam Creek on SR 1703 (Old Goldsboro Road). Funds are needed for construction based on the estimate from the 12-Month Tentative Letting List published January 17, 2020. This is a two-year cashflow project with \$250,000.00 in both FY20 and FY21. This is a Federal BUILD GRANT Project. These funds are pending approval from the Federal Highway Administration (FHWA).	\$500,000.00 Cost \$500,000.00 Fed.

Rural

Brunswick Co. R-5021 DIVISION	41582.1.1, STP-0211(021) NC 211 from SR 1500 (Midway Road) to NC 87. \$10,500,000.00 has previously been approved for preliminary engineering. Additional funds are needed as requested.	\$431,053.00 Cost \$344,843.00 Fed. \$86,210.00 State
Brunswick Co. R-5021 DIVISION	41582.3.1, STP-0211(021) NC 211 from SR 1500 (Midway Road) to NC 87. \$85,400,000.00 has previously been approved for construction. Decrease Federal funds (\$82,520,245.00) as requested by the Planning and Programming Division. Construction for this project has been delayed.	(\$82,520,245.00) Cost (\$66,016,196.00) Fed. (\$16,504,049.00) State

**NCDOT March 2020 Board of Transportation Agenda
Approval of Funds for Specific Federal - Aid Projects**

Division 3 (Continued)

Bicycle and Pedestrian

Town/ County/PROJ CATEGORY	Project Description	Estimated Cost
Divisionwide EB-5542I DIVISION	55062.3.35, Federal No. 0332143 Bicycle Safety Signs on various routes in Highway Division 3. \$1,400.00 has previously been approved for construction. Additional funds are needed as requested to install signs.	\$5,000.00 Cost \$4,000.00 Fed. \$1,000.00 State

**NCDOT March 2020 Board of Transportation Agenda
Approval of Funds for Specific Federal - Aid Projects**

Division 4

Interstate

Town/ County/PROJ CATEGORY	Project Description	Estimated Cost
Johnston Co. I-5786(L) STATEWIDE	53026.3.3, Federal No. 0095076 Landscape Development for I-5786: I-95 from south of SR 1001 (Lizzie Mill Road) to the Wilson County Line just north of NC 222. Funds are needed for landscaping.	\$55,000.00 Cost \$44,000.00 Fed. \$11,000.00 State

Urban

Johnston Co. U-6223 DIVISION	48811.1.1, Federal No. 1560004 SR 1560 (Ranch Road Extension) from NC 42 / US 70 Business to Ranch Road in Clayton. Funds are needed for preliminary engineering. The state match for this request uses Contingency Funds that will be transferred from 48811.3.1 per the January 9, 2020 Item H.	\$1,000,000.00 Cost \$800,000.00 Fed. \$200,000.00 State
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Safety

Johnston Co. W-5601HO DIVISION	50138.3.224, HSIP-1003(149) SR 1003 (Buffalo Road) between SR 1716 (Lake Wendell Road) and SR 2638 (Lake Wendell Road). Funds are needed for construction to add center lane and install intersection improvements.	\$1,150,000.00 Cost \$1,035,000.00 Fed. \$115,000.00 State
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**NCDOT March 2020 Board of Transportation Agenda
Approval of Funds for Specific Federal - Aid Projects**

Division 5

Congestion Mitigation

Town/ County/PROJ CATEGORY	Project Description	Estimated Cost
Wake Co. C-5604FA EXEMPT	43714.3.18, Federal No. 0532012 Beaverdam Creek Greenway between SR 2337 (Pippin Road) and Spiderlily Court in Zebulon. Funds are needed for construction to install the greenway.	\$2,006,495.00 Cost \$1,605,196.00 Fed. \$401,299.00 Local

Bicycle and Pedestrian

Wake Co. EL-5100AD DIVISION	41821.3.39, STPDA-0527(015) Pedestrian connections along SR 1931 (West Oak Avenue) and NC 98 Business (Wait Avenue) in Wake Forest. \$2,328,260.00 has previously been approved for construction. Additional funds are needed as requested to complete pedestrian improvements.	\$999,997.00 Cost \$558,992.00 Fed. \$441,005.00 Local
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**NCDOT March 2020 Board of Transportation Agenda
Approval of Funds for Specific Federal - Aid Projects**

Division 6

Interstate

Town/ County/PROJ CATEGORY	Project Description	Estimated Cost
Harnett Co. I-5883 STATEWIDE/ DIVISION	53083.2.2, NHPP-0095(033) I-95 from SR 1808 (Jonesboro Road / Exit 75) to just north of SR 1709 (Hodges Chapel Road / Exit 77). \$8,225,000.00 has previously been approved for right of way and utilities. Additional funds are needed as requested. This project was previously programmed as Division Needs and is now programmed as Statewide Mobility.	\$2,500,000.00 Cost \$2,000,000.00 Fed. \$500,000.00 State

Safety

Bladen Co. W-5706V REGIONAL	44852.3.23, Federal No. 0701037 US 701 at NC 210 (Hickory Grove Crossroads) and NC 41 at NC 210 (Smith Crossroads) in Bladen County. Funds are needed for construction to install actuated flashers.	\$144,000.00 Cost \$129,600.00 Fed. \$14,400.00 State
Columbus Co. W-5706AA REGIONAL	44852.2.28, Federal No. 0410007 NC 410 (Joe Brown Highway) at SR 1317 (Clarendon Chadbourn Road) south of Chadbourn. Funds are needed for full right of way and utilities.	\$50,000.00 Cost \$45,000.00 Fed. \$5,000.00 State
Columbus Co. W-5706J REGIONAL	44852.2.10, HSIP-0410(004) NC 410 (Joe Brown Highway) at SR 1002 (Old Lumberton Road) and at SR 1003 (Silver Spoon Road), and SR 1002 (Old Lumberton Road) at SR 1003 (Silver Spoon Road). Funds are needed for full right of way and utilities.	\$55,000.00 Cost \$49,500.00 Fed. \$5,500.00 State

**NCDOT March 2020 Board of Transportation Agenda
Approval of Funds for Specific Federal - Aid Projects**

Division 7

Interstate

Town/ County/PROJ CATEGORY	Project Description	Estimated Cost
Alamance Co. I-5711 STATEWIDE	50401.3.GV1, NHPP-040-4(161)220 Interchange improvements at I-40 / I-85 and SR 1007 (Mebane Oaks Road) in Mebane. Funds are needed for construction based on the estimate from the 12-Month Tentative Letting List published January 17, 2020. This is a GARVEE BOND project with a principal amount of \$2,000,000.00. Repayment of the bond requires \$172,000.00 of Federal funds in FY20 through FY34. State Match funds for the GARVEE portion of the project are cashflowed over three years with \$222,222.00 in both FY20 and FY21 and \$222,223.00 in FY22. This project also includes \$10,433,335.00 of National Highway Performance Program (NHPP) funds (including state match) which are cashflowed over three years with \$3,477,775.00 in both FY20 and FY21 and \$3,477,785.00 in FY22.	\$13,680,002.00 Cost \$10,926,668.00 Fed. \$2,753,334.00 State

Bicycle and Pedestrian

Guilford Co. U-5532B DIVISION	46297.3.3, TAP-0708(071) Phillips Avenue Sidewalk Improvements in Greensboro. \$450,000.00 has previously been approved for construction. Additional funds are needed as requested to complete sidewalk improvements.	\$37,218.00 Cost \$29,774.00 Fed. \$7,444.00 Local
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**NCDOT March 2020 Board of Transportation Agenda
Approval of Funds for Specific Federal - Aid Projects**

Division 10

Interstate

Town/ County/PROJ CATEGORY	Project Description	Estimated Cost
Mecklenburg/ Cabarrus Co. I-5826 STATEWIDE	50469.3.GV1, NHPIM-0085(047) I-85 from US 29 / NC 49 (Milemarker 42.05) to north of NC 73 (Milemarker 55.97). Funds are needed for construction based on the estimate from the 12-Month Tentative Letting List published January 17, 2020. This is a GARVEE BOND project with a principal amount of \$2,000,000.00. Repayment of the bond requires \$172,000.00 of Federal funds in FY20 through FY34. State Match funds for the GARVEE portion of the project are cashflowed over two years with \$333,333.00 in FY20 and \$333,334.00 in FY21. This project also includes \$3,533,000.00 of National Highway Performance Program (NHPP) funds (including state match) in FY20.	\$6,779,667.00 Cost \$5,406,400.00 Fed. \$1,373,267.00 State

Congestion Mitigation

Mecklenburg Co. C-5621 EXEMPT	50146.2.1, CMS-0021(020) US 21 and Catawba Avenue in Cornelius. \$4,548,000.00 has previously been approved for right of way and utilities. Additional funds are needed as requested. The State match for this project uses Bonus Allocation funds.	\$1,635,000.00 Cost \$1,308,000.00 Fed. \$327,000.00 State
Mecklenburg Co. C-5621 EXEMPT	50146.1.F1, CMS-0021(020) US 21 and Catawba Avenue in Cornelius. \$1,080,000.00 has previously been approved for preliminary engineering. Additional funds are needed as requested. The State match for this project uses Bonus Allocation funds.	\$836,000.00 Cost \$668,800.00 Fed. \$167,200.00 State

Bridge

Mecklenburg Co. M-0414JB DIVISION	42080.1.129, BRZ-NBIS(018) Municipal Bridge Inspections for two bridges in Cornelius. Funds are needed for bridge inspections.	\$14,286.00 Cost \$11,428.00 Fed. \$2,858.00 Local
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**NCDOT March 2020 Board of Transportation Agenda
Approval of Funds for Specific Federal - Aid Projects**

Division 10 (Continued)

Safety

Town/ County/PROJ CATEGORY	Project Description	Estimated Cost
Union Co. W-5520 REGIONAL	50092.3.1, HSIP-0074(156) US 74 (Monroe Expressway) from west of SR 1520 (Indian Trail-Fairview Road) to east of SR 1515 (Sardis Church Road) near Indian Trail. \$10,860,693.00 has previously been approved for construction. Additional funds are needed as requested to complete the signalized superstreet.	\$405,000.00 Cost \$364,500.00 Fed. \$40,500.00 State

Bicycle and Pedestrian

Mecklenburg Co. EB-5949 DIVISION	48422.1.1, Federal No. 0051036 NC 51 Corridor Access Management project to relocate and realign the Johnston Drive intersection along NC 51 (Main Street) with the existing Church Street intersection. Funds are needed for preliminary engineering.	\$5,000.00 Cost \$4,000.00 Fed. \$1,000.00 Local
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**NCDOT March 2020 Board of Transportation Agenda
Approval of Funds for Specific Federal - Aid Projects**

Division 12

Bridge

Town/ County/PROJ CATEGORY	Project Description	Estimated Cost
Catawba Co. M-0414LA DIVISION	42080.1.127, BRZ-NBIS(016) Municipal Bridge Inspections for two bridges in Conover. Funds are needed for bridge inspections.	\$3,733.00 Cost \$2,986.00 Fed. \$747.00 Local

**NCDOT March 2020 Board of Transportation Agenda
Approval of Funds for Specific Federal - Aid Projects**

Division 13

Rural

Town/ County/PROJ CATEGORY	Project Description	Estimated Cost	
Madison Co. R-5779 EXEMPT	44834.3.1, APD-1631(004) Extend SR 1631 (Crossroads Parkway) to SR 1632 (Calvin Edney Road) near Mars Hill. Funds are needed for construction to install roadway on new location. This project also includes \$1,510,000.00 of Strategic Transportation Investment (STI) funds (see page K-6 for State STI funding).	\$1,611,000.00 \$1,611,000.00	Cost Fed.

ITEM M SUMMARY - 28 PROJECT(S) - (TOTAL FEDERAL AND STATE) (\$40,794,083.00)

REVISIONS TO THE 2018-2027 AND 2020-2029 STIPS

HIGHWAY PROGRAM STIP ADDITIONS

DIVISION 12

* U-6238 CATAWBA PROJ.CATEGORY DIVISION	TRIVIUM PARKWAY, NEW ROUTE, EXTEND TRIVIUM PARKWAY AND CONSTRUCT NEW ROADWAY IN TRIVIUM CORPORATE CENTER. <u>ADD NEW ECONOMIC DEVELOPMENT PROJECT.</u>	CONSTRUCTION	FY 2020 -	\$1,316,000	(T)
				\$1,316,000	

* U-6239 IREDELL PROJ.CATEGORY EXEMPT	MOORESVILLE, SILICON SHORES EAST-WEST CONNECTOR ROAD PROJECT. <u>ADD NEW FEDERAL BUILD GRANT PROJECT.</u>	ENGINEERING	FY 2021 -	\$562,000	(DP)
			FY 2021 -	\$336,000	(L)
		RIGHT-OF-WAY	FY 2021 -	\$3,280,000	(DP)
			FY 2021 -	\$1,960,000	(L)
		CONSTRUCTION	FY 2021 -	\$9,761,000	(DP)
			FY 2021 -	\$5,832,000	(L)
				\$21,731,000	

STATEWIDE

* M-0539DIV STATEWIDE PROJ.CATEGORY DIVISION	VARIOUS, ENVIRONMENTAL MITIGATION AND MINIMIZATION. <u>ADD FUNDS NOT PREVIOUSLY PROGRAMMED.</u>	MITIGATION	FY 2020 -	\$300,000	(T)
			FY 2021 -	\$300,000	(T)
			FY 2022 -	\$300,000	(T)
			FY 2023 -	\$300,000	(T)
			FY 2024 -	\$300,000	(T)
			FY 2025 -	\$300,000	(T)
			FY 2026 -	\$300,000	(T)
			FY 2027 -	\$300,000	(T)
			FY 2028 -	\$300,000	(T)
			FY 2029 -	\$300,000	(T)
			FY 2030 -	\$300,000	(T)
			FY 2031 -	\$300,000	(T)
			FY 2032 -	\$300,000	(T)
				\$3,900,000	

* M-0539REG STATEWIDE PROJ.CATEGORY REGIONAL	VARIOUS, ENVIRONMENTAL MITIGATION AND MINIMIZATION. <u>ADD FUNDS NOT PREVIOUSLY PROGRAMMED.</u>	MITIGATION	FY 2020 -	\$300,000	(T)
			FY 2021 -	\$300,000	(T)
			FY 2022 -	\$300,000	(T)
			FY 2023 -	\$300,000	(T)
			FY 2024 -	\$300,000	(T)
			FY 2025 -	\$300,000	(T)
			FY 2026 -	\$300,000	(T)
			FY 2027 -	\$300,000	(T)
			FY 2028 -	\$300,000	(T)
			FY 2029 -	\$300,000	(T)
			FY 2030 -	\$300,000	(T)
			FY 2031 -	\$300,000	(T)
			FY 2032 -	\$300,000	(T)
				\$3,900,000	

* INDICATES FEDERAL AMENDMENT

Thursday, March 5, 2020

REVISIONS TO THE 2018-2027 AND 2020-2029 STIPS

HIGHWAY PROGRAM
STIP ADDITIONS

STATEWIDE

* M-0539SW	VARIOUS, ENVIRONMENTAL MITIGATION AND	MITIGATION	FY 2020 -	\$400,000	(T)
STATEWIDE	MINIMIZATION.		FY 2021 -	\$400,000	(T)
PROJ.CATEGORY	<u>ADD FUNDS NOT PREVIOUSLY PROGRAMMED.</u>		FY 2022 -	\$400,000	(T)
STATEWIDE			FY 2023 -	\$400,000	(T)
			FY 2024 -	\$400,000	(T)
			FY 2025 -	\$400,000	(T)
			FY 2026 -	\$400,000	(T)
			FY 2027 -	\$400,000	(T)
			FY 2028 -	\$400,000	(T)
			FY 2029 -	\$400,000	(T)
			FY 2030 -	\$400,000	(T)
			FY 2031 -	\$400,000	(T)
			FY 2032 -	\$400,000	(T)
				\$5,200,000	

STIP MODIFICATIONS

DIVISION 4

B-5662	NC 561, BRIDGE 93 OVER CONOCONNARA SWAMP ON	ENGINEERING	FY 2021 -	\$26,000	(T)
HALIFAX	NC 561 (COMB WITH BR-0113 & BR-0116).		FY 2022 -	\$26,000	(T)
PROJ.CATEGORY	<u>TO GROUP BUILD GRANT PROJECTS FOR LETTING,</u>		FY 2023 -	\$26,000	(T)
REGIONAL	<u>DELAY CONSTRUCTION FROM FY 20 TO FY 21.</u>		FY 2024 -	\$26,000	(T)
			FY 2025 -	\$26,000	(T)
			FY 2026 -	\$26,000	(T)
			FY 2027 -	\$26,000	(T)
			FY 2028 -	\$26,000	(T)
			FY 2029 -	\$26,000	(T)
			FY 2030 -	\$26,000	(T)
			FY 2031 -	\$26,000	(T)
			FY 2032 -	\$26,000	(T)
			POST YR-	\$78,000	(T)
		BUILD NC CONST	FY 2021 -	\$172,000	(T)
			FY 2022 -	\$172,000	(T)
			FY 2023 -	\$172,000	(T)
			FY 2024 -	\$172,000	(T)
			FY 2025 -	\$172,000	(T)
			FY 2026 -	\$172,000	(T)
			FY 2027 -	\$172,000	(T)
			FY 2028 -	\$172,000	(T)
			FY 2029 -	\$172,000	(T)
			FY 2030 -	\$172,000	(T)
			FY 2031 -	\$172,000	(T)
			FY 2032 -	\$172,000	(T)
			POST YR-	\$516,000	(T)
		CONSTRUCTION	FY 2021 -	\$725,000	(T)
			FY 2022 -	\$725,000	(T)
				\$4,420,000	

* INDICATES FEDERAL AMENDMENT

Thursday, March 5, 2020

REVISIONS TO THE 2018-2027 AND 2020-2029 STIPS

HIGHWAY PROGRAM
STIP MODIFICATIONS

DIVISION 6

I-5878A HARNETT PROJ.CATEGORY STATEWIDE	I-95, US 421 (EXIT 73) AND SR 1793 (POPE ROAD) (EXIT 72). CLEARING FOR UTILITIES. <u>ADD PROJECT SEGMENT FOR CLEARING WORK.</u>	CONSTRUCTION	2020	\$139,000 \$139,000	(T)
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I-5986BA HARNETT JOHNSTON PROJ.CATEGORY STATEWIDE	SR 1001 (LONG BRANCH ROAD - EXIT 71) TO I-40 (EXIT 81). CLEARING FOR UTILITIES. <u>ADD PROJECT SEGMENT FOR CLEARING WORK.</u>	CONSTRUCTION	2020	\$144,000 \$144,000	(T)
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DIVISION 10

I-5746C MECKLENBURG PROJ.CATEGORY STATEWIDE	I-277 (BROOKSHIRE FRWY), I-77 TO EAST 10TH STREET. RESURFACE ROADWAY AND REHABILITATE BRIDGES FROM JOHNSON STREET TO EAST 10TH STREET. <u>COMBINE FORMER SEGMENTS D AND E INTO SEGMENT C.</u>	CONSTRUCTION	FY 2023 - FY 2024 - FY 2025 -	\$8,567,000 \$8,567,000 \$8,566,000	(NHPIM) (NHPIM) (NHPIM)
				\$25,700,000	

* U-6091 UNION PROJ.CATEGORY DIVISION	STALLINGS, WEDDINGTON-MATTHEWS ROAD AT CHESTNUT LANE. CONSTRUCT ROUNDABOUT. <u>TO ALLOW ADDITIONAL TIME FOR PLANNING AND DESIGN DELAY CONSTRUCTION FROM FY 20 TO FY 22</u>	ENGINEERING	FY 2020 - FY 2020 - FY 2020 - FY 2020 - FY 2022 - FY 2022 - FY 2022 - FY 2022 -	\$300,000 \$75,000 \$360,000 \$50,000 \$40,000 \$1,662,000 \$351,000 \$300,000 \$116,000	(CMAQ) (S(M)) (CMAQ) (L) (S(M)) (CMAQ) (O) (L) (S(M))
		RIGHT-OF-WAY			
		CONSTRUCTION		\$3,254,000	

DIVISION 12

* EB-6037A CLEVELAND PROJ.CATEGORY DIVISION	SHELBY RAIL TRAIL, SOUTH CAROLINA STATE LINE TO WEST OF GROVER STREET IN SHELBY. CONSTRUCT MULTIUSE PATH. <u>NEW PROJECT BREAK ADDED TO FACILITATE PROCESSING OF MUNICIPAL AGREEMENT AT REQUEST OF MPO.</u>	RIGHT-OF-WAY	FY 2021 - FY 2021 -	\$4,160,000 \$1,040,000	(TAANY) (L)
				\$5,200,000	

* INDICATES FEDERAL AMENDMENT

REVISIONS TO THE 2018-2027 AND 2020-2029 STIPS

HIGHWAY PROGRAM STIP MODIFICATIONS

DIVISION 13

EB-5830	ASHEVILLE, LEXINGTON AVENUE, PATTON AVENUE TO	ENGINEERING	FY 2020 -	\$540,000	(STBGDA)
BUNCOMBE	SOUTHSIDE AVENUE. IMPROVE BICYCLE AND		FY 2020 -	\$135,000	(L)
PROJ.CATEGORY	PEDESTRIAN INFRASTRUCTURE.			\$675,000	
DIVISION	<u>TO ALLOW ADDITIONAL TIME FOR PLANNING DELAY</u>				
	<u>CONSTRUCTION FROM FY 19 TO FY 20</u>				

EB-5831	ASHEVILLE, COXE AVENUE, PATTON AVENUE TO	ENGINEERING	FY 2020 -	\$420,000	(STBGDA)
BUNCOMBE	SHORT COXE AVENUE. IMPROVE BICYCLE AND		FY 2020 -	\$105,000	(L)
PROJ.CATEGORY	PEDESTRIAN INFRASTRUCTURE.			\$525,000	
DIVISION	<u>TO ALLOW ADDITIONAL TIME FOR PLANNING DELAY</u>				
	<u>CONSTRUCTION FROM FY 19 TO FY 20</u>				

DIVISION 14

* EB-6037B	ECUSTA TRAIL, BREVARD BIKE PATH IN BREVARD TO	RIGHT-OF-WAY	FY 2021 -	\$6,400,000	(TAANY)
HENDERSON	KANUGA ROAD IN HENDERSONVILLE. CONSTRUCT		FY 2021 -	\$1,600,000	(L)
TRANSYLVANIA	MULTIUSE PATH.			\$8,000,000	
PROJ.CATEGORY	<u>NEW PROJECT BREAK ADDED TO FACILITATE</u>				
DIVISION	<u>PROCESSING OF MUNICIPAL AGREEMENT AT</u>				
	<u>REQUEST OF MPO.</u>				

ITEM N SUMMARY

ADDITIONS	5 PROJECTS	\$36,047,000
MODIFICATIONS	9 PROJECTS	
	14 PROJECTS	\$36,047,000

* INDICATES FEDERAL AMENDMENT

Thursday, March 5, 2020

NCDOT March 5, 2020 Board of Transportation Agenda

SUMMARY: There are a total of 38 agreements for approval by the Board of Transportation

Statewide

Research Triangle Regional
Public Transportation Authority
d/b/a GoTriangle (GoTriangle)

North Carolina Railroad
Company (NCRR)

Capital Area Metropolitan
Planning Organization (CAMPO)

Durham-Chapel Hill-Carrboro
Metropolitan Planning
Organization (DCHC MPO)

Durham County, Johnston
County, Orange County, Wake
County

This Memorandum of Understanding (MOU) in support of continued development of the Greater Triangle Commuter Rail Project is for the advancement of the Greater Triangle Commuter Rail project ("GTCR Project"). The GTCR Project envisions the introduction of commuter rail transit on a segment of the NCRR Corridor located within GoTriangle's territorial jurisdiction and within the planning jurisdiction of CAMPO and DCHC MPO. GoTriangle, NCRR, CAMPO, DCHC MPO, Wake County, Durham County, Orange County, Johnston County, and the Department seek to enter into this MOU to best express the Parties mutual understanding regarding roles and responsibilities during Early Project Development ("EPD"); priority activities, tasks, and decisions to be achieved during EPD; expectations for future processes, requirements, and appropriate roles and responsibilities, assuming the Project receives FTA's approval to enter the CIG Program; and the Parties mutual intention to work in good faith to further the development of the GTCR Project in a manner that is representative, collaborative, responsive, open and transparent, fiscally responsible, and metric-based.

Division 1

Town of Edenton
Chowan County
48940

This Project consists of a feasibility study for the proposed Albemarle Sound Passenger Ferry. The Municipality shall prepare the study. The Department shall participate in the cost of the study up to a maximum amount of \$70,000.

Division 2

City of Greenville
Pitt County
2.1074SM

This Project consists of the municipal operations of computerized traffic signal system (Schedule D). The Municipality shall be responsible for the timing plans, electric traffic signals and other traffic control devices on State Highway System Streets within the Municipality. The Department shall reimburse the Municipality for the operation of the computerized traffic signal system up to \$300,000 annually.

NCDOT March 5, 2020 Board of Transportation Agenda

Division 3

New Hanover County
U-4751
40191.3.2

This Project consists of installation of a supplemental reinforced concrete pipe (RCP) and paralleling reinforced concrete box (RCB) in conjunction with Department Project U-4751, to allow for overflow necessitated from planned county ditch regrading project. The County shall reimburse the Department 100% for the work. The estimated reimbursement is \$175,000.

Town of Leland
Brunswick County
U-5534D
44096.1.F5
44096.2.5
44096.3.5

This Project consists of construction of a multi-use path adjacent to Old Fayetteville Road beginning at or around the corner of the Leland Town Hall Campus and ending at the driveway of North Brunswick High School in Leland. This supplemental agreement revises the federal participation rate for the phases of the project and shall supersede the previous supplemental agreement executed on 2/13/2018.

City of Wilmington
CSX Transportation (CSXT)
New Hanover County
48935

This Wilmington Rail Realignment Preliminary Engineering Reimbursement Agreement is for the Municipality to complete preliminary engineering and federal environmental review for the relocation and repurposing of freight use over 8.5 miles of Class I track and right of way within the Municipality's urban center. The freight use will be relocated to a new 4-to-5-mile track that originates at the Port of Wilmington, traverses the Cape Fear River and connects to the Davis/Navassa, North Carolina Rail Yard. This 8.5 miles of track located at the Municipality's urban center will be repurposed for alternative transportation. The total estimated cost of the project is \$2,760,000 and the Department's financial participation in the project is \$500,000.

Division 4

City of Goldsboro
Wayne County
U-5724
54016.3.1

This Project consists of construction on US 13 (Berkley Boulevard) for the realignment of SR 1709 (Central Heights Road). At the request of the Municipality, the construction shall include sidewalk betterments along the following areas: the north side of SR 1560 (Royall Avenue) from North Park Drive to US 13 (Berkley Boulevard); the north side of SR 1709 (Central Heights Road) from US 13 to Fallin Boulevard; both sides of Fallin Boulevard from US 13 to SR 1709 and along both sides of SR 1711 (Oak Forest Road) from SR 1709 to Gateway Drive. The Municipality shall reimburse the Department 30% of the actual cost of the work. The estimated reimbursement is \$68,775.

NCDOT March 5, 2020 Board of Transportation Agenda

Division 4, cont.

City of Goldsboro
Wayne County
U-5724
54016.3.1

This Project consists of construction on US 13 (Berkley Blvd.) for the realignment of SR 1709 (Central Heights Road). This Utility Construction Agreement is for the Department's contractor to adjust and relocate municipal water and sewer lines. The estimated cost to the Municipality is \$308,161.25.

City of Rocky Mount
Nash County
U-5996
47133.3.1

This Project consists of widening SR 1603 (North Old Carriage Road) from North of SR 1770 (Eastern Avenue/Sunset Avenue) to SR 1601 (Reges Store Road)/SR 1609 (Green Hills Road). This Utility Construction Agreement is for the Department's contractor to adjust and relocate municipal water and sewer lines. The estimated cost to the Municipality is \$767,867.94.

City of Rocky Mount
Nash/Edgecombe Counties
P-5711
44908

This Rail Agreement was previously approved by the Board of Transportation on February 7, 2019. Due to an increase in the cost of this project, this Agreement is to be rerun to adjust the additional funding amount. The Department shall reimburse the Municipality 100% of the costs incurred. The funding amount for the Department will increase from \$1,000,000 to \$1,125,000. All other terms of the original Agreement will remain the same.

Division 5

Deere & Company
Wake County
49088

This Project consists of constructing a traffic signal at the new second entrance to John Deere Turf Care on NC 55 south of US 401 in Fuquay-Varina. The Department shall participate up to a maximum amount of \$150,000 in state Economic Development funds. Costs that exceed the total available funding of \$150,000 shall be the responsibility of the Developer.

Town of Apex
Wake County
U-5530AC
44111.3.19

This Project consists of completing a pedestrian route from south of James Street to downtown Apex to improve pedestrian infrastructure along the Town's historic main street. This supplemental agreement is to increase funding. The Department will participate in 70% of eligible costs up to \$455,292. The Municipality shall provide a 30% non-federal match of \$195,126 plus an additional \$32,166 in local participation and in all costs that exceed the total available funding of \$682,584.

NCDOT March 5, 2020 Board of Transportation Agenda

Division 5, cont.

Town of Apex
Wake County
EB-5895
47293.2.1
47293.3.1

This Project consists of constructing approximately 4000' of new sidewalk to complete a contiguous route along the east side of NC 55 and along Bobbitt Road from Sunset Lake Road northward providing a connection to existing sidewalk along NC 55 north of Bobbitt Road. The Department will participate in 80% of eligible costs up to 480,000. The Municipality shall provide a 20% non-federal match of \$120,000 and all costs that exceed the total estimated cost of \$600,000.

Town of Cary
Wake County
C-5604IB
43714.3.5

This Project consists of the construction of White Oak Greenway between MacArthur Drive and Davis Drive. This supplemental agreement increases funding and supersedes the previously executed supplemental agreements. The Department will participate in 45% of eligible costs up to \$5,007,500. The Municipality shall provide a 55% non-federal match of \$6,120,278 and all costs that exceed the total available funding of \$11,127,778.

Division 6

Town of Spring Lake
Cumberland County
U-4444B
36492.3.2

This Project consists of improvements along NC 210 (Murchison Road) from north of Butner Road to north of NC 24-87-210 (Bragg Boulevard). This supplemental agreement is to include a lighting system within the Municipality on a section of the Project. The Municipality shall assume normal maintenance operations including any required deposits, monthly maintenance costs and fees for the lighting system.

Cumberland County
M-0522
47433.1.4

This Transportation Planning Project consists of developing a travel demand model for the Fayetteville Area MPO. The Department will perform all phases of the work and the County will participate in the amount of \$143,654.37. This agenda item supersedes the item that was approved by the BOT on October 10, 2018.

Fayetteville Public Works
Commission
Cumberland County
U-2519AA&AB
34817.3.3GV6

This Project consists of construction of the Fayetteville Outer Loop from I-95 to south of SR 1003 (Camden Road). This Utility Construction Agreement is for the Department's contractor to adjust and relocate municipal water lines. The Municipality shall reimburse the Department a lump sum payment of \$187,087.25 for the work.

NCDOT March 5, 2020 Board of Transportation Agenda

Division 6, cont.

Fayetteville Public Works
Commission
Cumberland County
U-2519AA&AB
34817.3.3GV6

The Project consists of construction of the Fayetteville Outer Loop from I-95 to south of SR 1003 (Camden Road). This Utility Construction Agreement is for the Department's contractor to adjust and relocate municipal utility Betterments. The Municipality shall reimburse the Department a lump sum payment of \$316,058.93 for the work.

Town of Angier
Harnett County
EB-6020
48817.1.1
48817.2.1
48817.3.1

This Project consists of extending sidewalks in the following locations: on N. Willow Street from the intersection of E. Julia Street to the intersection of Junny Road; on Junny Road from the intersection of N. Willow Street to the intersection of Glen Meadow Drive and W. Lillington Street from the intersection of S. Park Street to the intersection of W. Depot Street (NC 210). The Department will participate in 80% of eligible costs up to \$1,426,000. The Municipality shall provide a 20% non-federal match of \$356,500 and all costs that exceed the total available funding of \$1,782,500.

Division 7

City of Greensboro
Guilford County
U-5532I
46297.2.11
46297.3.11

This Project consists of the construction of sidewalks and ADA compliant curb ramps at 6 locations on 1) Holden Road; 2) Cotswold Avenue 3) Greenbriar Road 4) Swing Road 5) Hilltop Road; and 6) McConnell Road. This supplemental agreement provides an additional \$324,160. The Municipality shall provide an additional 20% non-federal match of \$81,040 and all costs that exceed the total available funding of \$2,054,282. This agenda item supersedes the item that was approved by the BOT on December 5, 2019.

City of Greensboro
Guilford County
U-6019
47164.3.1

This Project consists of construction of turn lanes and sidewalks on SR 2334 (Air Harbor Road) at SR 2347 (Lake Brandt Road). This Utility Construction Agreement is for the Department's contractor to adjust and relocate municipal water and sewer lines. The estimated cost to the Municipality is \$36,370.

City of Eden
Rockingham County
EB-5888
47284.1.1
47284.3.1

This Project consists of pedestrian improvements along East Stadium Drive from Country Club Road to Freedom Park/Edgewood Road. This supplemental agreement is to change responsibility so that the Department will now let the Project.

NCDOT March 5, 2020 Board of Transportation Agenda

Division 8

Town of Broadway
Lee County
R-3830
38887.3.2

This Project consists of widening NC 42/SR 1579 (Broadway Road) from US 421 to SR 1538 (East Harrington Avenue). The Department shall include provisions in its construction contract for pedestrian facilities on or along Gilbert Lett Drive. The Municipality shall reimburse the Department 20% of the actual cost of the work. The estimated cost to the Municipality is \$16,075.

City of Sanford
Lee County
R-3830
38887.3.2

This Project consists of widening NC 42/SR 1579 (Broadway Road) from US 421 to SR 1538 (East Harrington Avenue). The Department shall include provisions in its construction contract for pedestrian facilities and bike lanes on or along NC 42 within the municipal limits. The Municipality shall reimburse the Department actual costs of the work. The estimated cost to the Municipality is \$458,216.

U.S. Department of Agriculture
(USDA), Animal and Plant
Health Inspection Service
(APHIS) and Wildlife Services
(WS)
Moore County

This Agreement is to provide Wildlife Services with an outside storage area to house explosive magazines at the NCDOT Moore County Maintenance Facilities in Carthage, NC. There shall be no fees paid to NCDOT by WS in association with the housing of the magazines on the premises.

Division 9

Winston-Salem City County
Utilities
Forsyth County
R-2247EB
34409.3.GV17

This Project consists of construction of Winston-Salem Northern Beltway Interchange at US-52 (Future I-74) and widening of US-52 near NC-65 (Bethania-Rural Hall Road) to a 6-lane divided facility. This Utility Construction Agreement is for the Department's contractor to adjust and relocate municipal water and sewer lines. The Municipality shall reimburse the Department a lump sum payment of \$642,694 for the work.

Division 10

Town of Cornelius
Mecklenburg County
C-5621
50146.1.F1
50146.2.1
50146.3.1

This Project consists of the construction of a roundabout north of SR 5544 (Catawba Avenue) on Holiday Lane and south of SR 5544 (Catawba Avenue) on US 21. This supplemental agreement is to modify the project scope to include an additional roundabout, increase funding and transfer the municipal maintenance of Holiday Lane to the Department upon completion of the project.

NCDOT March 5, 2020 Board of Transportation Agenda

Division 10, cont.

Town of Cornelius
Mecklenburg County
U-5906
46451.3.1

This Project consists of intersection improvements at Torrence Chapel Road (SR 2195)/West Catawba Avenue (SR 5544)/Liverpool Parkway, Knox Road/West Catawba Avenue (SR 5544)/One Norman Boulevard, Torrence Chapel Road (SR 2195)/Knox Road, and Liverpool Parkway/Chartwell Center Drive. This supplemental agreement is for additional funding and for abandonment of the municipal maintenance of Liverpool Parkway to the Department upon completion of the project.

Town of Cornelius
Mecklenburg County
U-5873
46425.1.1
46425.2.1
46425.3.1

This Project consists of construction of a roundabout at the intersection of NC 115 (North Main Street) and Potts Street in Cornelius. The Department will perform the work. The Municipality shall be responsible for all costs that exceed the Department's funding of \$7,116,250.

City of Charlotte
Mecklenburg County
EB-5832
47248.2.1
47248.3.1

This Project consists of construction of a multi-use path along West Mallard Creek Church Road, from Mallard Creek Road to Claude Freeman Drive. This supplemental agreement is to increase funding. The Department will participate in an additional 80% of eligible costs up to \$600,000. The Municipality shall provide an additional 20% non-federal match of \$150,000 and all costs that exceed the total available funding of \$2,341,250.

City of Charlotte
Mecklenburg County
C-5613BB
43735.3.6

This Project consists of consists of install fiber cable, communication devices and traffic management cameras at various locations including the full integration of devices and/or cameras within the Charlotte Traffic Management Center (CTMC) at Wilkinson Boulevard from Old Dowd Road to Morehead Street. This supplemental agreement is to delay the reimbursement of funding until a later date when funds are available from NCDOT.

Mecklenburg County
EB-5782
44524.3.1

This Project consists of construction of a multi-use greenway from Green Rea Road to Four Mile Creek Greenway in Mecklenburg County. This supplemental agreement revises the Department and County's participation rate in the project. The Department will participate in 80% of eligible costs up to \$5,774,000. The County will provide a 20% non-federal match of \$1,443,500 and all costs that exceed the total available funding of \$7,217,500.

NCDOT March 5, 2020 Board of Transportation Agenda

Division 10, cont.

Town of Huntersville
Mecklenburg County
U-6106
48174.2.1
48174.3.1

This Project consists of construction for roadway widening and improvements for bike lanes and sidewalk on along both sides of SR 2120 (McCoy Road) to Wynfield Creek Parkway. The Department will participate in 80% of eligible costs up to \$8,770,000. The Municipality shall provide a 20% non-federal match of \$2,192,500 and all costs that exceed the total available funding of \$10,962,500.

Town of Huntersville
Mecklenburg County
U-5908
46453.2.1
46453.3.1

This Project consists of construction of upgrades to Main Street from Mt Holly-Huntersville Road to Ramah Church Road. This supplemental agreement is to increase funding. The Department will participate in an additional 80% of eligible costs up to \$4,230,000 for ROW and an additional 60% of eligible costs up to \$8,314,000 for CON. The Municipality shall provide a non-federal match of \$6,622,667 and all costs that exceed the total available funding of \$19,256,667.

Town of Matthews
Mecklenburg County
U-4713A
39077.3.2

This Project consists of construction of the McKee Road Extension from SR 3448 (Pleasant Plains Road) to East John Street in Matthews. At the request of the Municipality, the Department shall include the addition of pedestrian facilities and betterments in its construction contract. The estimated cost to the Municipality is \$104,560. The Municipality has committed to provide \$2,000,000 towards the construction costs of the project.

Division 12

City of Hickory
Catawba County
U-6238
49107.3.1

This Project consists of extension of five hundred feet of Trivium Parkway and construction of a new one thousand two-hundred foot roadway in Trivium Corporate Center in Hickory. The Municipality is responsible for the Project. The Department shall participate in the construction costs up to a maximum amount of \$1,316,435.

City of Hickory
Catawba County
R-5967
49086.3.1

This Project consists of constructing access road improvements on SR 1625 (9th Avenue Drive NW) beginning near the intersection of Clement Boulevard and ending at SR 1687 (Goat Farm Road) adjacent to the Hickory Regional Airport for improved accessibility into the industrial park in Hickory. The Department will provide \$1,500,000 in federal funds towards the cost of the project. The Municipality shall provide \$1,161,216 in local participation and all costs that exceed the total available funding of \$2,661,216.

NCDOT March 5, 2020 Board of Transportation Agenda

Division 12, cont.

City of Hickory
Catawba County
48962

This Project consists of roadway access for new industry on SR 1148 (Robinwood Road) in Hickory. The Municipality is responsible for the project. The Department shall participate in the construction costs of the project up to a maximum amount of \$402,500.

NCDOT March 5, 2020 Board of Transportation Agenda

SUMMARY: There are a total of 27 agreements for informational purposes only

Division 3

City of Wilmington
New Hanover County
36249.4119

This Project consists of signal plan and equipment modifications along SR 1411 (Wrightsville Avenue) at SR 2123 (Wilshire Boulevard) and Caswell Street; Floral Parkway; US 117/NC 132 (South College Road)/MacMillan Avenue and Hawthorne Drive related to the Wilmington sidewalk project. The Department will review the traffic signal plans and inspect the traffic signal installation. The Municipality shall reimburse the Department 100% for the work. The estimated reimbursement is \$25,000.

Town of Warsaw
Duplin County
ER-5600CH
46305.3.69

This Project consists of installing landscape enhancements along SR 1348 (N. Front Street) from W. Pollock Street) to SR 1340 (W. Hill Street) in Warsaw. The Department will perform the work. The Municipality shall maintain the landscape enhancements after a one-year establishment period.

Hoosier Daddy, LLC
New Hanover County
36249.4125

This Project consists of signal plan and equipment modifications at the intersection of US 421 (Carolina Beach Road) and SR 1581 (Manassas Drive) [SIN 03-1110] related to the Tarin Woods II Development. The Department will review the traffic signal plans and inspect the traffic signal installation. The Developer shall reimburse the Department 100% for the work. The estimated reimbursement is \$5,000.

GHK Cape Fear Development,
LLC
New Hanover County
36249.4127

This Project consists of signal plan and equipment modifications at the intersection of US 17 (Military Cutoff Road) and Fresco Drive/Destiny Way [SIN 03-0952], related to the Renaissance Apartments Development. The Department will review the traffic signal plans and inspect the traffic signal installation. The Developer shall reimburse the Department 100% for the work. The estimated reimbursement is \$5,000.

GHK Cape Fear Development,
LLC
New Hanover County
36249.4128

This Project consists of signal plan and equipment modifications along US 421 (Carolina Beach Road) at Echo Farms Boulevard/George Anderson Drive [SIN 03-0524], and Independence Boulevard [SIN 03-0601] related to the Woodlands at Echo Farms Development. The Department will review the traffic signal plans and inspect the traffic signal installation. The Developer shall reimburse the Department 100% for the work. The estimated reimbursement is \$10,000.

NCDOT March 5, 2020 Board of Transportation Agenda

Division 3, cont.

City of Jacksonville
Onslow County
3.1067SM
3.2067SM

This Project consists of the municipal operations of the computerized traffic signal system (Schedule D). This supplemental agreement modifies the scope of the agreement to include reimbursement for Dynamic Message Signs (DMS).

347 MCO, LLC
New Hanover County
36249.4133

This Project consists of traffic signal installation at US 17 (Military Cutoff Road) and Site Access 3; signal modifications on US 17 (Military Cutoff Road) at Station Road/Site Access [SIN: 03-0950] and at Town Center Drive/Cayman Court (non-system) [SIN: 03-0956] and signal coordination work performed by the Department along Military Cutoff Road related to The Avenue Development. The Department will review the traffic signal plans and inspect the traffic installation. The Developer shall reimburse the Department 100% for the work. The estimated reimbursement is \$20,000.

Division 4

Rebecca D. Flowers
Johnston County
R-3825B
34552.3.5

This Project consists of construction to widen NC 42 from east of SR 1902 (Glen Laurel Road) to SR 1003 (Buffalo Road) to Multi-Lanes. At the request of the Developer, the Department shall construct and maintain a temporary signal at Flowers Parkway and NC 42 until the final signal is installed. When the final signal is installed NCDOT will remove the temporary signal. The Developer shall reimburse the Department 100% of the actual cost of all work performed by the Department, estimated to be \$92,500.

Division 5

Wake County Board of
Education
Wake County
36249.4116

This Project consists of the installation of a new traffic signal on SR 1829 (Strickland Road) at Carriage Tour Lane/School Exit Driveway. The Department will review the traffic signal plans and inspect the traffic installation. The Developer shall reimburse the Department 100% for the work. The estimated reimbursement is 7,000.

NCDOT March 5, 2020 Board of Transportation Agenda

Division 5, cont.

USEF HCG Fenton, LLC
Wake County
36249.4117

This Project consists of installation of new and upgraded signals at 6 locations in Cary. The Department will review the traffic signal plans and inspect the traffic signal installation. The Developer shall reimburse the Department 100% for the work. The estimated reimbursement is \$30,000.

City of Raleigh
Wake County
N/A

This Project consists of allowing North Carolina State University (NCSU) to access and utilize a portion of the existing fiber optic network installed for the City of Raleigh computerized traffic control system under Project C-4923. There is no funding associated with this use of the fiber optic network.

CASSA Knightdale, LLC
Wake County
36249.4124

This Project consists of signal upgrades and installation of new signals on Hodge Road. The Department will review the traffic signal plans and inspect the traffic signal installation. The Developer shall reimburse the Department 100% for the work. The estimated reimbursement is \$20,000.

Reader & Partners, LLC
Wake County
36249.4123

This Project consists of traffic signal upgrades on NC 98 at Franklin Street and NC 98 at US 1A/US 1. The Department will review the traffic signal plans and inspect the traffic signal installation. The Developer shall reimburse the Department 100% for the work. The estimated reimbursement is \$14,000.

Olde Towne WEH LP
Wake County
36249.4129

This Project consists of a traffic signal upgrade on SR 2542 (Rock Quarry Road) at SR 5520 (Jones Sausage Road)/SR 2697 (S. New Hope Road). The Department will review the traffic signal plans and inspect the traffic signal installation. The Developer shall reimburse the Department 100% for the work. The estimated reimbursement is \$5,000.

Division 6

701 Investors LLC
Columbus County
R-5020A
41499.3.2

This Project consists of additional work added to R-5020A in conjunction with required improvements on US 701 Bypass (J K Powell Boulevard) for the entrance to the 701 Investors, LLC property at SR 1429 (Slippery Log Road). The Developer shall reimburse the Department 100% for the work. The estimated reimbursement is \$14,000.

NCDOT March 5, 2020 Board of Transportation Agenda

Division 6, cont.

Highland Paving
Cumberland County
36249.4121

This Project consists of the installation of a new traffic signal at the intersection of SR 2252 (Chickenfoot Road) at the main entrance to the Chickenfoot Road Mixed Use Development. The Department will review the traffic signal plans and inspect the traffic signal installation. The Developer shall reimburse the Department 100% for the work. The estimated reimbursement is \$10,000.

Southeastern Community
College
Columbus County
36249.4115

This Project consists of the design, fabrication, and installation of directional signs to Southeastern Community College on the westbound off-ramp of US 74 at Union Valley Road and at the intersection of Union Valley Road and US 74 Business/76/NC 130. The Developer shall reimburse the Department 100% for the work. The estimated reimbursement is \$1,500.

Division 7

City of Greensboro
Guilford County
EB-5712
50408.3 F1

This Project consists of construction of sidewalk along Lovett Street on both sides from West Florida Street to Freeman Mill Road. This supplemental agreement is to extend the completion date for the Project to May 13, 2020.

Criteria Construction, LLC
Orange County
36429.4118

This Project consists of traffic signal upgrades at the intersection of SR 1009 (Churton Street) at SR 1006 (Orange Grove Rd) and Shopping Center; and the intersection of SR 1009 at I-85 ramps (SB). The Department will review the traffic signal plans and inspect the traffic signal installation. The Developer shall reimburse the Department 100% for the work. The estimated reimbursement is \$16,000.

Division 10

BC Construction Group
Union County
36249.4122

This Project consists of the modification of 2 traffic signals located at NC 84 and at NC 200 and NC 84 and SR 1007 (Rocky River Road). The Department will review the traffic signal plans and inspect the traffic signal installation. The Developer shall reimburse the Department 100% for the work. The estimated reimbursement is \$12,000.

NCDOT March 5, 2020 Board of Transportation Agenda

Division 10, cont.

Dependable Development, LLC Cabarrus County 36249.4126	This Project consists of the upgrade of a traffic signal at US 29 and Mt. Olivet Road. The Department will review the traffic signal plans and inspect the traffic signal installation. The Developer shall reimburse the Department 100% for the work. The estimated reimbursement is \$6,000.
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Terwilliger Pappas Multi-Family Partners, LLC Union County U-6091 47885.1.1 47885.3.1	This Project consists of construction of a fourth leg of the roundabout at the intersection of SR 1345 (Matthews-Road) and SR 1362 (Chestnut Lane) for entrance to the Developer's Subdivision entrance in conjunction with Department Project U-6091. This supplemental agreement is to address cost participation in the construction phase of the project. The Developer shall reimburse the Department 100% for the additional work incorporated into the Department's U-6091 Project. The estimated reimbursement is \$351,000.
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Harris Development Group, LLC Mecklenburg County 36249.4130	This Project consists of upgrading the traffic signal and providing wireless communications at NC 51 and Cresthill Road and the Mint Hill Town Hall entrance. The Department will review the traffic signal plans and inspect the traffic signal installation. The Developer shall reimburse the Department 100% for the work. The estimated reimbursement is \$6,000.
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C4 CStore Holdings II, LLC Mecklenburg County 36249.4131	This Project consists of upgrading the traffic signal at NC 115 and SR 2439 (Ramah Church Road). The Department will review the traffic signal plans and inspect the traffic signal installation. The Developer shall reimburse the Department 100% for the work. The estimated reimbursement is \$6,000.
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Division 12

Gaston County Schools Gaston County 36249.4120	This Project consists of the installation of a traffic signal at the intersection of NC 273 and Belmont Middle School access drive. The Department will review the traffic signal plans and inspect the traffic signal installation. The County shall reimburse the Department 100% for the work. The estimated reimbursement is \$25,000.
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NCDOT March 5, 2020 Board of Transportation Agenda

Division 14

Clear Creek Investment Group,
LLC
Henderson County
I-4400BB
34232.3.GV8

This Project consists of widening Clear Creek Road (SR 1503) to accommodate the Clear Creek Subdivision in Henderson County. The Developer shall reimburse the Department 100% for the work. The estimated reimbursement is \$378,389.76.

Brasstown Community Center
Clay County
36249.4132

This Project consists of paving the driveway and parking area of the Brasstown Community Center in Clay County. The Center shall reimburse the Department 100% for the work. The estimated reimbursement is \$8,000.10.

NCDOT March 2020 Board of Transportation Agenda

Municipal Street System Changes for Powell Bill Program

Deletion from the State Highway System

There will be no municipal street system changes presented for approval at the March 2020 Board meeting.

NCDOT March 2020 Board of Transportation Agenda

<u>No.</u>		<u>Enacted Page No.</u>
1	Preliminary Right of Way Plans	R-1 & R-2
2	Final Right of Way Plans	R-3 & R-4
3	Conveyance ROW Residue By Real Estate Agent and or Auctioneer	R-5 – R-8
4	Approval of Conveyance of Highway Right of Way Residues	R-9
5	Approval of Conveyance of Surplus Highway Right of Way	R-10
6	Approval of Conversion of Residual Area to Highway Right of Way	R-11
7	Approval of Request to Abandon Conservation Easement	R-12
8	Approval of Revision in Control of Access	R-13

Preliminary Right of Way Plans

The Preliminary Right of Way Plans for the below projects, including Secondary Roads and Industrial Access Roads, provide for the construction, design, drainage and control of access as shown on the respective plans.

Based upon the recommendations of the Manager of the Right of Way Unit, the Board finds that such rights of way as shown on these preliminary plans and drawings, including existing public dedicated right of way, are for a public use and are necessary for the construction of said projects.

The rights of way for the location, construction, relocation, and control of access of highways embraced in the below projects shall be as shown in detail on the preliminary right of ways plans and drawings for said projects on file in the Right of Way Branch in the Department of Transportation in Raleigh.

The Board finds such right of way acquisition to be necessary and hereby authorizes the Right of Way Branch to acquire right of way on the below projects either by negotiation or by condemnation through the Attorney General's Office.

(Division 4)

Nash County; I.D. No. BR-0039; Project No. 49075.2.1:
Bridge No. 224 on SR 1510 over I-95

Nash County; I.D. No. BR-0036; Project No. 49074.2.1:
Bridge No. 41 over NC 33 over I-95

(Division 6)

Cumberland County; I.D. No. BR-0014; Project No. 49072.2.1:
Bridge No. 25 on NC 242 over Beaver Dam Creek

Columbus County; I.D. No. W-5706J; Project No. 44852.2.10:
NC 410 (Joe Brown Highway) at SR 1002 (Old Lumberton Road) and at SR 1003 (Silver Spoon Road), and SR 1002 (Old Lumberton Road) at SR 1002 (Silver Spoon Road)

Columbus County; I.D. No. W-5706AA; Project No. 44852.2.28:
NC 410 (Joe Brown Highway) at SR 1317 (Clarendon Chadbourn Road)

Preliminary Right of Way Plans (continued)

(Division 7)

Rockingham County; I.D. No. BR-0044; Project No. 49077.2.1:
Bridge No. 168 on NC 14 / NC 87 over Smith River

Rockingham County; I.D. No. BR-0042; Project No. 49076.2.1:
Bridge No. 116 over SR 2600 over US 29

(Division 8)

Moore County; I.D. No. BR-0035; Project No. 49073.2.1:
Bridge No. 24 on NC 22 over Nicks Creek

(Division 9)

Stokes County; I.D. No. BR-0047; Project No. 49078.2.1:
Bridge No. 10 on SR 1105 over US 52

(Division 10)

Stanly County; I.D. No. W-5710AB; Project No. 44856.2.28:
SR 1542 (Ridge Street) and SR 1524 (Carter Acre Road) near Albemarle

(Division 11)

Surry County; I.D. No. BR-0048; Project No. 49079.2.1:
Bridge No. 103 on NC 268 over Mitchell River

Ashe County; I.D. No. BR-0002; Project No. 49071.2.1:
Bridge No. 8 on NC 194 over North Fork New River

Final Right of Way Plans

Right of way acquisition in accordance with the preliminary right of way plans on file in the Right of Way Unit has been determined to be necessary for public use and was authorized by the Board. Certain changes in the right of way have necessitated alteration of the preliminary right of way plans. Final plans have been prepared and provide for the construction, design, drainage and control of access for these projects. The Board finds that such rights of way and control of access as shown on the final plans are for a public use and are necessary for construction. The sections of roads which were shown on the preliminary plans as sections of roads to be abandoned are hereby abandoned and removed from the State Highway System for Maintenance upon the completion and acceptance of the project.

The rights of way for the location, design and construction of highways embraced in the following projects shall be as shown in detail on the final plans for said projects as follows:

(Division 1)**Project No. 47977.2.3; Martin County; I.D. No. I-6028B:**

Pavement Rehabilitation on US 64 (Future I-87) from US 64 Alt to NC 125 with the right of way indicated upon the final plans for said project.

Project No. 50198.2.1; Perquimans County; I.D. No. R-5740:

Drainage, grading, paving and culverts on SR 1329 (Woodville Road) from SR 1331 (Red Bank Road) to SR 1300 (New Hope Road) with the right of way indicated upon the final plans for said project.

(Division 2)**Project No. 38430.2.3; Pitt County; I.D. No. B-4605:**

Drainage, grading, paving and structure on Bridge No. 5 over Chicod Creek on SR 1777 with the right of way indicated upon the final plans for said project.

Project No. 48828.2.1; Pitt County; I.D. No. BR-0119:

Drainage, grading, paving and structure on Bridge No. 109 over Grindle Creek on SR 1514 (Staton Mill Road) with the right of way indicated upon the final plans for said project.

Project No. 48829.2.1; Pitt County; I.D. No. BR-0120:

Drainage, grading, paving and structure on Bridge No. 123 over Meadow Branch on SR 1552 with the right of way indicated upon the final plans for said project.

Final Right of Way Plans (continued)

(Division 2) (continued)

Project No. 17BP.2.R.92; Pitt County; I.D. No. N/A:

Drainage, grading, paving & structure on Bridge No. 171 over Johnson Mill Run on SR 1418 (Staton House Road) with the right of way indicated upon the final plans for said project.

(Division 3)

Project No. 48830.2.1; Sampson County; I.D. No. BR-0121:

Drainage, grading, paving and structure on Bridge No. 178 over Sevenmile Swamp on SR 1804 (Houses Mill Road) with the right of way indicated upon the final plans for said project.

Project No. 48831.2.1; Sampson County; I.D. No. BR-0122:

Drainage, grading, paving and structure on Bridge No. 348 over Beaverdam Creek on SR 1703 (Old Goldsboro Road) with the right of way indicated upon the final plans for said project.

(Division 4)

Project No. 38979.2.1; Wayne County; I.D. No. U-2714:

Culvert, drainage, grading, paving & signals on US 117 (N. William Street) from North of US 70 to SR 1571 (Tommy's Road) with the right of way indicated upon the final plans for said project.

(Division 7)

Project No. 50401.2.1; Alamance County; I.D. No. I-5711:

Drainage, grading, pavement markings, paving, signals and structure on interchange improvements at I-40/I-85 and SR 1007 (Mebane Oaks Road) in Mebane with the right of way indicated upon the final plans for said project.

Project No. 34840.2.4; Guilford County; I.D. No. U-2581BA:

Culvert, drainage, grading, paving and signals on US 70 from SR 3045 (Mount Hope Church Road) to SR 3175 (Birch Creek Road) with the right of way indicated upon the final plans for said project.

(Division 11)

Project No. 34518.2.6; Ashe County; I.D. No. R-2915E:

Culvert, drainage, grading, paving and signals on US 221 from US 221 Bypass to US 221 Bus/NC 88 in Jefferson with the right of way indicated upon the final plans for said project.

Approval of Conveyance of Highway Right of Way Residues by Real Estate Agent and/or Auctioneer

It is hereby resolved, based upon the recommendation of the Manager of the Right of Way Unit, that the following highway right of way conveyances are approved:

(Division 1)

Project 6.099009T, Parcels 173 & 174, US 64

Martin County

Conveyance of an approximate 1.370-acre area comprised of two (2) landlocked B-class residues to Nicodemus Long for the highest offer amount of **\$800**; total commission \$900.

(Division 3)

Project 6.804121, Parcel 001, US 421

Pender County

Conveyance of an approximate 0.060-acre area comprised of one (1) landlocked C-class residue to Amy Rivera and Benjamin Daniels for the highest offer amount of **\$1,000**; total commission \$250.

Project 6.258002T, Parcel 002, US 17

New Hanover County

Conveyance of an approximate 1.890-acre area comprised of one (1) landlocked B-class residue to Sunny Properties of Wilmington LLC for the highest offer amount of **\$3,000**; total commission \$250.

Project 8.1223304, Parcel 145, I-40

New Hanover County

Conveyance of an approximate 0.760-acre area comprised of one (1) landlocked B-class residue to Joshua Paul Neilsen for the highest offer amount of **\$1,000**; total commission \$250.

(Division 5)

Project 8.1416802, Parcels 001 & 002, I-85

Durham County

Conveyance of an approximate 1.484-acre area comprised of two (2) landlocked B-class residues to Robert L. Gresham for the highest offer amount of **\$3,000**; total commission \$5,000.

Project 8.U401722, Parcel 019, I-540

Wake County

Conveyance of an approximate 0.080-acre area comprised of one (1) landlocked C-class residue to Torey Thomas for the highest offer amount of **\$750**; total commission \$500.

Approval of Conveyance of Highway Right of Way Residues by Real Estate Agent and/or

Auctioneer (continued)

(Division 5) (continued)

Project 8.1402205, Parcel 005, US 64

Wake County

Conveyance of an approximate 0.690-acre area comprised of one (1) landlocked B-class residue to Skyrocket Estates LLC for the highest offer amount of **\$25,000**; total commission \$2,500.

Project 4.49009, Parcel 931, I-540

Wake County

Conveyance of an approximate 0.370-acre area comprised of one (1) landlocked C-class residue to Taniqua Danielle Harris for the highest offer amount of **\$20,000**; total commission \$500.

Project 8.1402601, Parcel 035, NC 55

Wake County

Conveyance of an approximate 0.050-acre area comprised of one (1) landlocked C-class residue to Ahmed Nasser Isleem and Mohammad Yacoub Joudeh for the highest offer amount of **\$500**; total commission \$500.

Project U-604, Parcel 001, Timber Drive

Wake County

Conveyance of an approximate 0.010-acre area comprised of one (1) landlocked C-class residue to Maxwell Conrad Palmer for the highest offer amount of **\$2,000**; total commission \$500.

Project 8.U401703, Parcel 926, I-540

Wake County

Conveyance of an approximate 0.520-acre area comprised of one (1) landlocked B-class residue to Nellys Cecilia Nunez for the highest offer amount of **\$15,000**; total commission \$2,500.

Project 6.408004B, Parcel 906BZ, I-540

Wake County

Conveyance of an approximate 0.480-acre area comprised of one (1) landlocked B-class residue to Khalil Ahmady for the highest offer amount of **\$3,500**; total commission \$2,500.

Project 6.408004B, Parcel 012, I-540

Wake County

Conveyance of an approximate 0.180-acre area comprised of one (1) landlocked C-class residue to Insurance For All Needs, LLC for the highest offer amount of **\$1,500**; total commission \$500.

Approval of Conveyance of Highway Right of Way Residues by Real Estate Agent and/or

Auctioneer (continued)

(Division 5) (continued)

Project 8.U401703, Parcel 926, I-540

Wake County

Conveyance of an approximate 0.410-acre area comprised of one (1) landlocked B-class residue to Dale R. and Diane L. Minge for the highest offer amount of **\$11,000**; total commission \$2,500.

(Division 12)

Project 8.1780103, Parcel 037, US 64

Alexander County

Conveyance of an approximate 24.600-acre area comprised of one (1) landlocked B-class residue to Michael Sullivan for the highest offer amount of **\$12,550**; total commission \$1,000.

**Project 8.16361, Parcels 184 & 170; 9.8129302, Parcels 052 & 051; 8.1629701
Parcels 141 & 141A: U-2523A Parcel 078; 8.1811303 Parcels 081 & 077; 8.1811201
Parcel 092; 6.801817 Parcel 042; 8.1811001 Parcel 901, along NC 274 & NC 279
Gaston County**

Conveyance of an approximate 3.43-acre area comprised of eleven (11) landlocked B-class residues and one (1) landlocked C-class residue to Michael Sullivan for the highest offer amount of **\$6,000**; total commission \$12,000.

Project 8.T791704, Parcels 001, 002, 003, 004, 051 & 170; 8.2790903, Parcels 033 & 035, all along US 321

Catawba County

Conveyance of an approximate 54.16-acre area comprised of seven (7) landlocked B-class residues to Michael Sullivan for the highest offer amount of **\$27,620**; total commission \$7,000.

**Project 8.2381301, Parcel 002; Bridge 85 over Little Buffalo Creek on SR 1153
Lincoln County**

Conveyance of an approximate 0.030-acre area comprised of one (1) landlocked C-class residue to G. Todd Cole and Zachary Blake Cole for the highest offer amount of **\$100**; total commission \$1,000.

**Project 8.2381301, Parcel 003; Bridge 85 over Little Buffalo Creek on SR 1153
Lincoln County**

Conveyance of an approximate 0.110-acre area comprised of one (1) landlocked C-class residue to Gregory T. Cole and Jane L. Cole for the highest offer amount of **\$100**; total commission \$1,000.

Approval of Conveyance of Highway Right of Way Residues by Real Estate Agent and/or

Auctioneer (continued)

(Division 12) (continued)

Project 8.1830503, Parcel 005; NC 16

Lincoln County

Conveyance of an approximate 4.590-acre area comprised of one (1) landlocked B-class residue to Lamar Schlegel and Vanessa Schlegel for the highest offer amount of **\$920**; total commission \$1,000.

Project 8.2831301, Parcel 001; Bridge 85 over Little Buffalo Creek on SR 1153

Lincoln County

Conveyance of an approximate 0.100-acre area comprised of one (1) landlocked C-class residue to Bill F. Cole Revocable Living Trust; Betty J. Cole Revocable Living Trust for the highest offer amount of **\$100**; total commission \$1,000.

Project 8.1830404, Parcel 018; NC 150

Lincoln County

Conveyance of an approximate 0.670-acre area comprised of one (1) landlocked B-class residue to Billy Gene Buff and Daniel Eugene Buff for the highest offer amount of **\$500**; total commission \$1,000.

Project 8.2831301, Parcel 003A; Bridge 85 over Little Buffalo Creek on SR 1153

Lincoln County

Conveyance of an approximate 0.010-acre area comprised of one (1) landlocked C-class residue to Joseph Raymond and Susanna Raymond for the highest offer amount of **\$100**; total commission \$1,000.

Approval of Conveyance of Highway Right of Way Residues

It is hereby resolved, based upon the recommendation of the Manager of the Right of Way Unit, that the following highway right of way conveyances are approved:

(Division 9)

Project 40278.2.1, U-4909; SR 2643 (Union Cross Road) from SR 2691 (Wallburg Road) to SR 2632 (Sedge Garden Road)

Forsyth County

Conveyance of an approximate 0.704 acre residual parcel to Quality Oil Company, LLC, the highest bidder after public advertisement, for the bid sum of \$67,700.00.

CONVEYANCE ROW RESIDUE

1 PROJECT(S)

\$ 67,700.00

Approval of Conveyance of Surplus Highway Right of Way

It is hereby resolved, based upon the recommendation of the Manager of the Right of Way Unit that the following highway right of way conveyances are approved:

(Division 9)

**Project 8.1620402; I-0900AC, I-40 at Burke Mill Road in Winston Salem
Forsyth County**

Disposal of approximately 0.315 acre surplus right of way and revision of existing control of access to Truliant Federal Credit Union for the enhancement value of \$116,500.00.

APPROVAL OF SURPLUS RIGHT OF WAY	1 PROJECT(S)	\$ 116,500.00
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Approval of Conversion of Residual Area to Highway Right of Way

It is hereby resolved, based upon the recommendation of the Manager of the Right of Way Unit that the following highway right of way conveyances are approved:

(Division 4)

Residue: Project B-3879, Parcel 010, SR 1603
New: Project U-5996, Parcel 012, SR 1603
Nash County

The Department acquired a 0.49 acre residue during the construction of B-3879 on SR 1603 in Nash County. The Department with construction of Project U-5996 is adding a round about at the intersection of SR 1603 and SR 1601 also in Nash County. To build the round about, the Department needs to convert 0.007 acre of the total 0.49 acre residue acquired with project B-3879. The Department will have a new deed prepared for the remaining 0.483 area and it will be available for sale.

Approval of Request to Abandon Conservation Easement

It is hereby resolved, based upon the recommendation of the Manager of the Right of Way Unit that the following highway right of way conveyances are approved:

(Division 13)

A Conservation Easement was needed to Mitigate the impacts to trout streams resulting from the construction of the I-26 corridor northeast of US 19 to the Tennessee state line at Sam's Gap. NCDOT was attempting to restore 5175 feet of stream in Madison County on 5.0 acres of a 78.6 acre property owned by Oscar and Georgia Brigmon. In September 1999, the Board of Transportation approved the acquisition and assigned the Conservation Easement to NCWRC. It was later determined the aforesaid property did not meet the Federal mitigation rules to provide site protection in perpetuity. Therefore, no Mitigation credits are available for this property. In 2017, NCWRC received a request from the Brigmon's that the property be released from the Conservation Easement. Therefore, this is to request approval from the Board of Transportation to forward this request to the Council of State for approval and instrument preparation.

It is hereby resolved, based upon the recommendation of the Manager of the Right of Way Unit that the following highway right of way conveyances are approved:

R-ITEM SUMMARY	53 PROJECT(S)	TOTAL: \$ 320,240.00
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**NORTH CAROLINA BOARD OF TRANSPORTATION
RECOMMENDED ALLOCATION OF HIGHWAY MAINTENANCE APPROPRIATIONS
FISCAL YEAR 2019 - 2020**

There will be no Maintenance Allocation submitted to the Board for approval at the March 2020 Board meeting.

ITEM T-1

There are no Comprehensive Transportation Plans to be presented for approval at the March 5, 2020 Board of Transportation Meeting.

ITEM V

NORTH CAROLINA BOARD OF TRANSPORTATION

There will be no Item V submitted to the Board for approval at the March 5, 2020, Board meeting.



NORTH CAROLINA

Department of Transportation



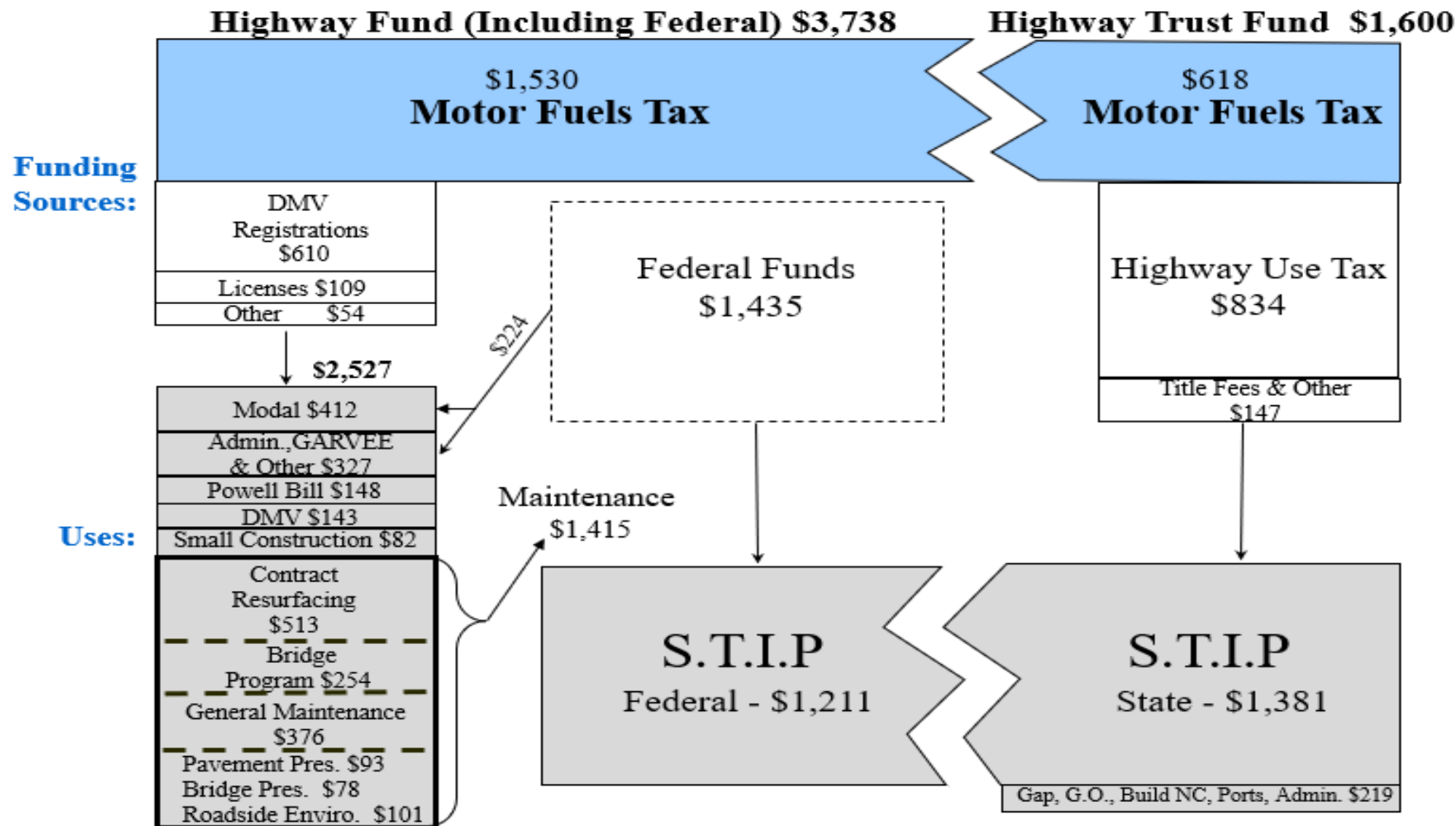
Financial Update

As of January 2020

Evan Rodewald, Chief Financial Officer

March 4, 2020

Highway Fund and Highway Trust Fund Budget, SFY 2019-20

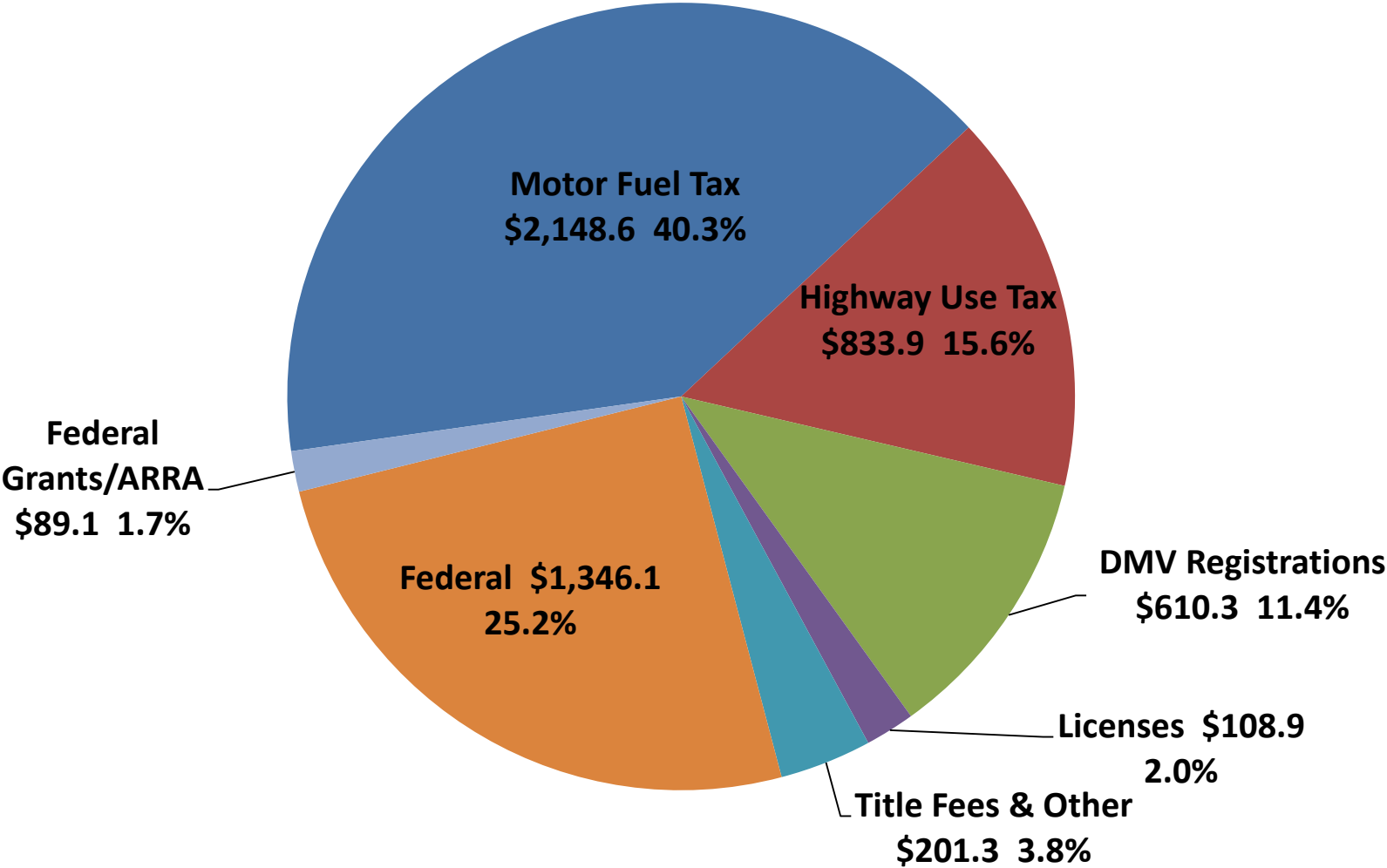


(\$ in millions)

NCDOT Revenue Sources

SFY2020 - \$5.3 Billion

(Excludes Receipt Supported Funding of \$0.2B)

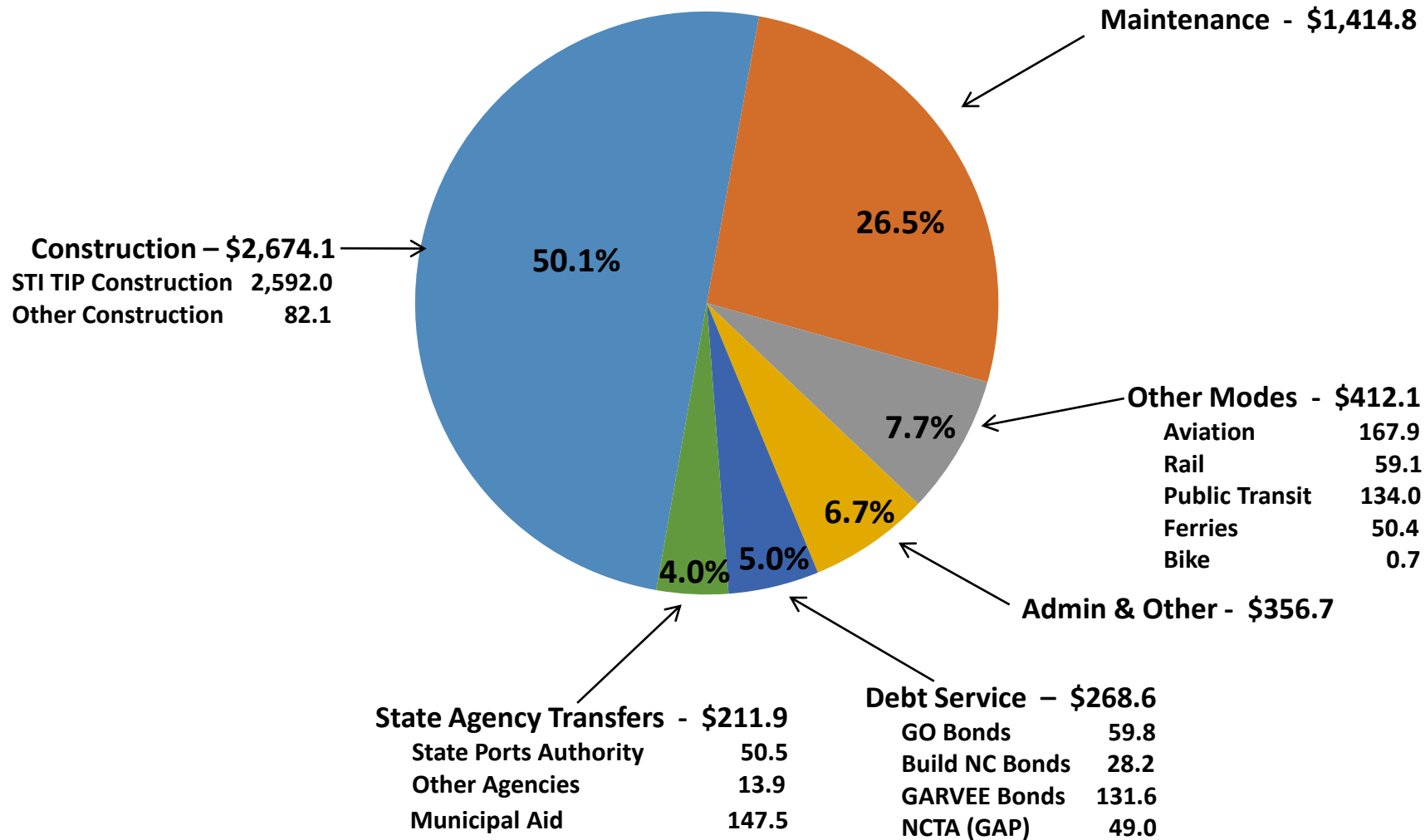


(\$ in millions)

Uses of 2019-20 NCDOT Appropriations

Total Funding = \$5.3 Billion

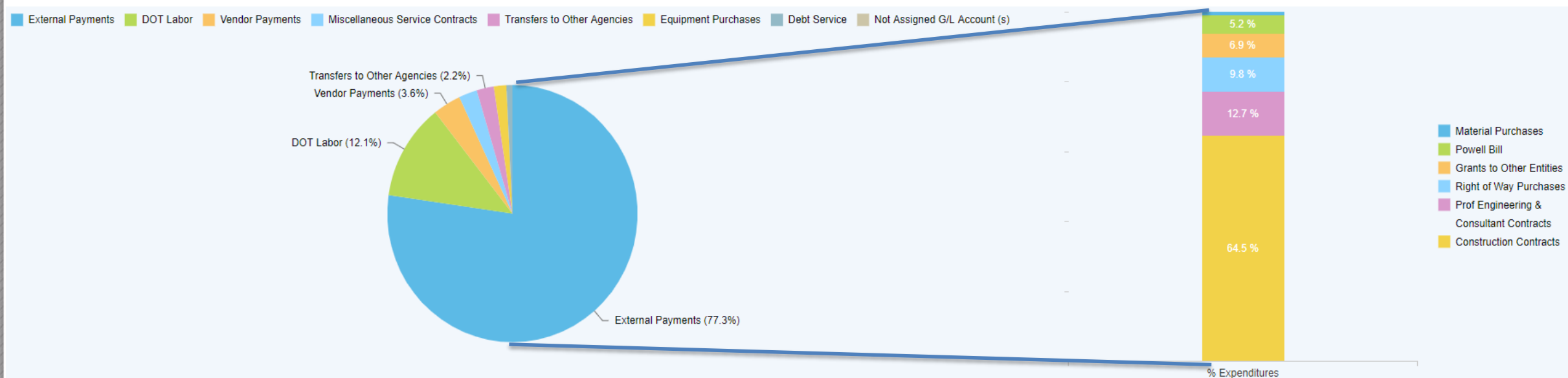
(Excludes Receipt Supported Funding of \$0.2B)



(\$ in millions)

NCDOT Expenditures

SFY2020 as of January 31, 2020



Revenue Summary January 2020

(\$ in Millions)

	January 2020	January 2019	Year Over Year				2019-2020 SFY Budget	
			2019-2020 YTD Actual	2018-2019 YTD Actual	\$ Δ	% Δ	Annual Budget	%
State & Federal Collections*:								
State Highway Fund Revenues	\$ 187.9	\$ 186.1	\$ 1,327.7	\$ 1,298.0	\$ 29.7	2%	2,303.3	58%
State Highway Trust Fund Revenues	140.6	136.7	953.1	920.3	32.8	4%	1,599.7	60%
Total State Funds	328.5	322.8	2,280.8	2,218.3	62.6	3%	\$ 3,903.0	58%
Federal Funds/Participation	167.0	173.6	846.1	828.6	17.4	2%	1,435.2	59%
BUILDNC Bond Proceeds	10.6	-	110.3		110.3			N/A
GARVEE Bond Proceeds	10.9	-	84.1	-	84.1			N/A
Total	\$ 517.0	\$ 496.4	\$ 3,321.3	\$ 3,046.9	\$ 274.4	9%	\$ 5,338.2	62%
	January 2020	January 2019	Year Over Year				SFY Budget	
			2019-2020 YTD Actual	2018-2019 YTD Actual	\$ Δ	% Δ	Annual Budget	%
Highway Fund & Trust Fund Details								
Motor Fuel Taxes	\$ 163.9	\$ 158.2	\$ 1,241.8	\$ 1,212.5	\$ 29.4	2%	\$ 2,148.6	58%
Highway Use Tax	81.8	77.0	511.6	484.3	27.4	6%	833.9	61%
DMV/Other Revenue	81.9	86.7	521.7	512.4	9.2	2%	917.5	57%
Investment Income	0.9	0.9	5.7	9.1	(3.4)		3.0	190%
Total Revenue	\$ 328.5	\$ 322.8	\$ 2,280.8	\$ 2,218.3	\$ 62.6	3%	\$ 3,903.0	58%

*Excludes NCTA Revenues

Expenditure Summary January 2020

(\$ in millions)

			Year Over Year				SFY Annual Budget	
	January-20	January-19	2019-2020 Actual	2018-2019 Actual	\$ Δ	% Δ	2019-2020 Budget	%
State & Federal Funded Programs:								
Construction	\$ 277.7	\$ 256.6	\$ 1,913.4	\$ 2,054.6	\$ (141.1)	-7%	\$ 2,674.1	72%
Maintenance	99.7	157.8	935.8	1,268.1	(332.4)	-26%	1,414.8	66%
Other Modes	9.2	39.4	152.0	295.9	(143.8)	-49%	412.1	37%
Administration/Other Programs	24.1	29.4	95.4	99.2	(3.9)	-4%	356.7	27%
Debt Service (Including NCTA GAP funds)	-	-	43.3	39.7	3.6	9%	268.6	16%
Municipal Aid	-	-	147.5	147.3	0.2		147.5	100%
Transfers to Other Agencies	13.6	9.8	19.2	81.9	(62.8)	-77%	64.4	30%
Total Expenditures*	\$ 424.4	\$ 493.1	\$ 3,306.6	\$ 3,986.8	\$ (680.1)	-17%	5,338.2	62%

**Excludes NCTA Expenditures*

Financial Update

SFYTD 2020 as compared SFYTD 2019

(\$ in millions)

	Month over Month		Year to Date		
	January '20	January '19	YTD 2020	YTD 2019	\$ Change
<u>Highway Fund & Highway Trust Fund</u>					
Collections	\$ 517	\$ 496	\$ 3,321	\$ 3,047	\$ 274
Expenditures	<u>424</u>	<u>493</u>	<u>3,307</u>	<u>3,987</u>	<u>(680)</u>
Net Change	\$ 93	\$ 3	\$ 14	\$ (940)	\$ 954
Cash Balances:			<u>January '20</u>	<u>January '19</u>	
Highway Trust Fund			\$ 289	\$ 383	
Highway Fund*			<u>101</u>	<u>52</u>	
Totals			<u>\$ 390</u>	<u>\$ 435</u>	

*Excludes bond proceeds held by Trustee & GARVEE Debt Service Reserve



NORTH CAROLINA Department of Transportation



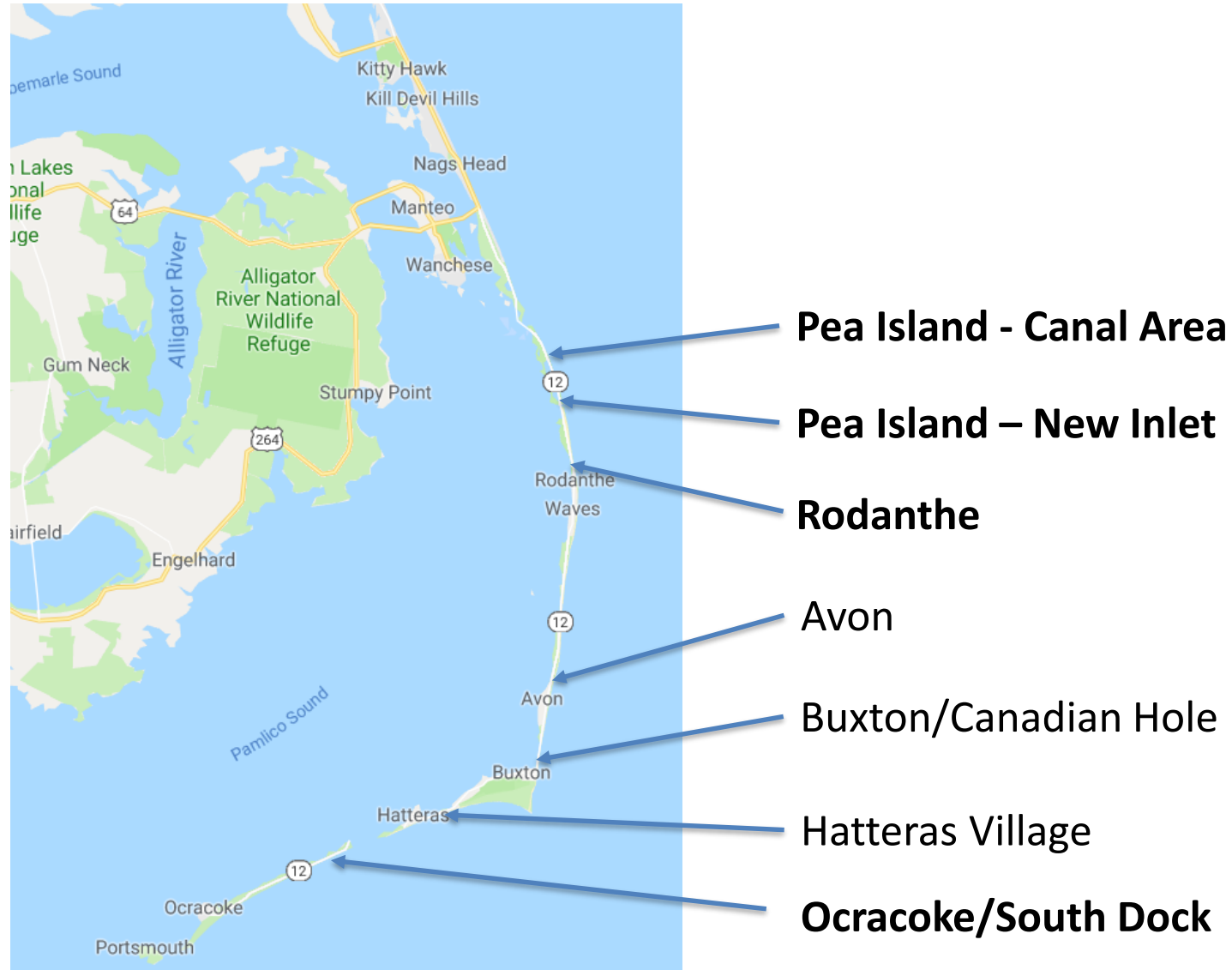
NC 12 Update

Jerry D. Jennings, PE - Division Engineer
March 4, 2020

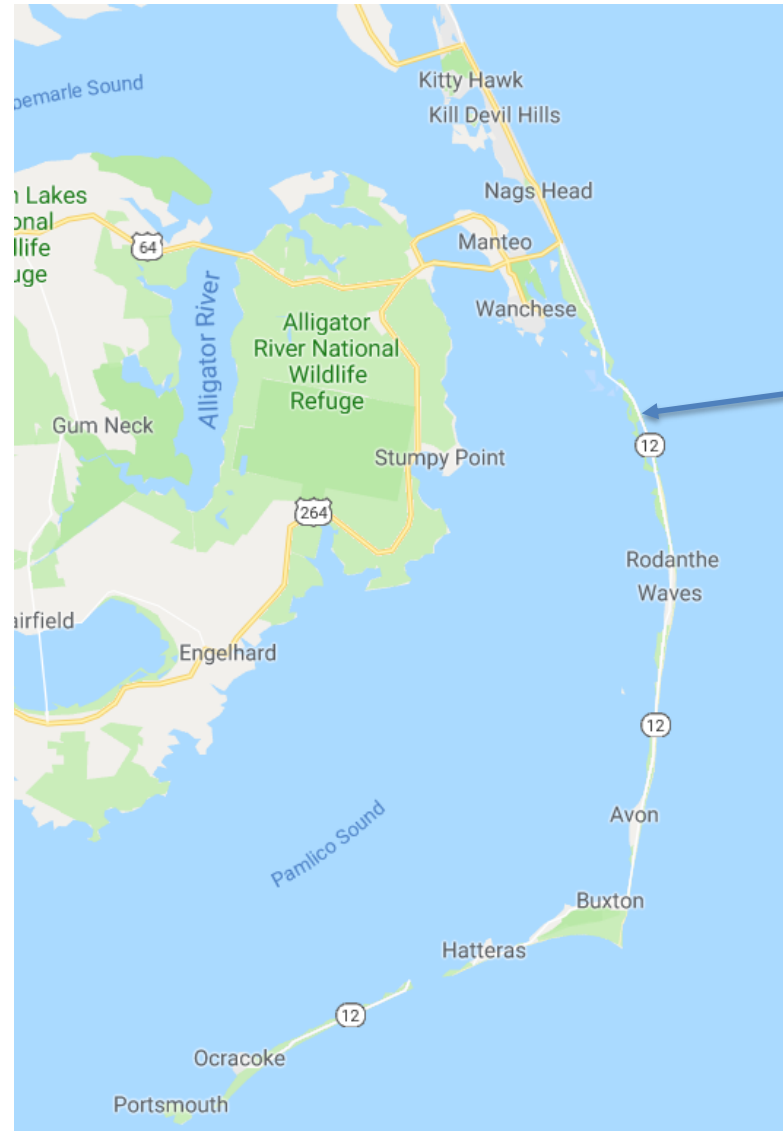
- Overview of NC 12 Corridor
- Update on Areas of Concern
 - Recent Impacts
 - Current Projects
- Impacts
- Options
- Future Challenges
- Questions



NC 12 Overview



Pea Island - Canal Area



Pea Island - Canal Area

Pea Island - Canal Area – March 2018



Pea Island - Canal Area – Hurricane Dorian



Pea Island – Canal Area – Nov. 2019



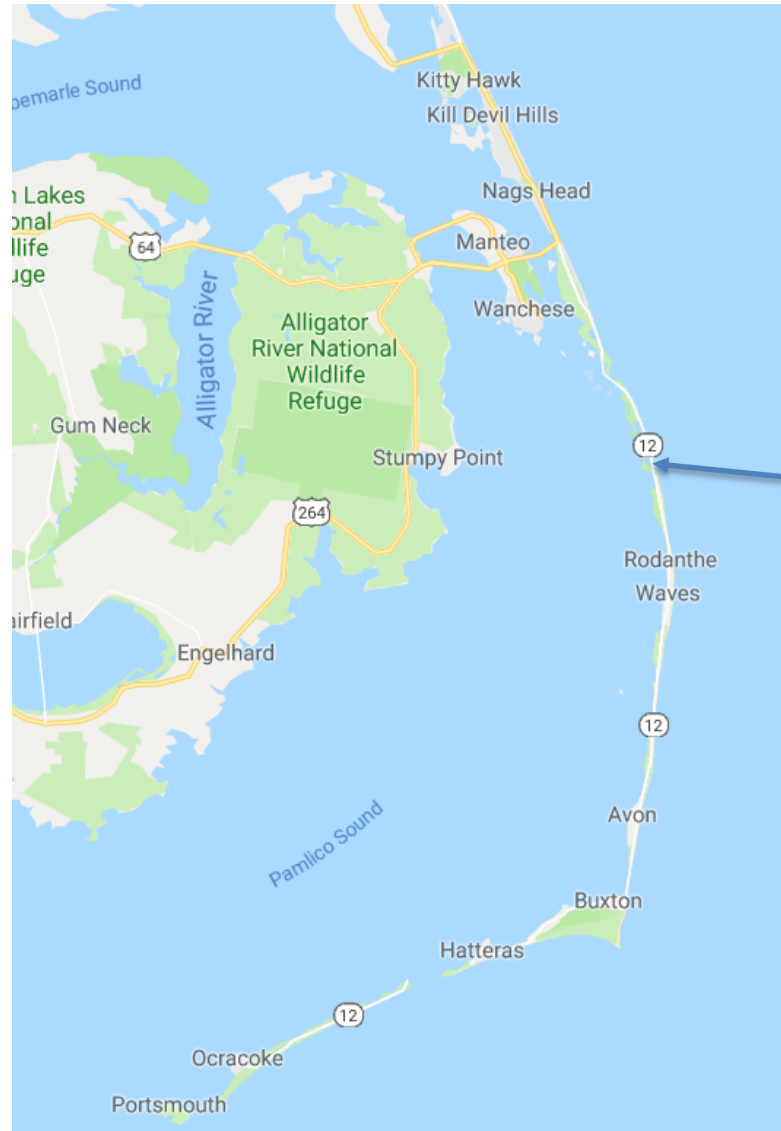
Pea Island – Canal Area – Jan. 2020



Pea Island – Canal Area – Feb 2020



Pea Island – New Inlet



Pea Island – New Inlet

Pea Island – New Inlet – Hurricane Irene



Pea Island – New Inlet



Pea Island – New Inlet



Pea Island – New Inlet

August 2011



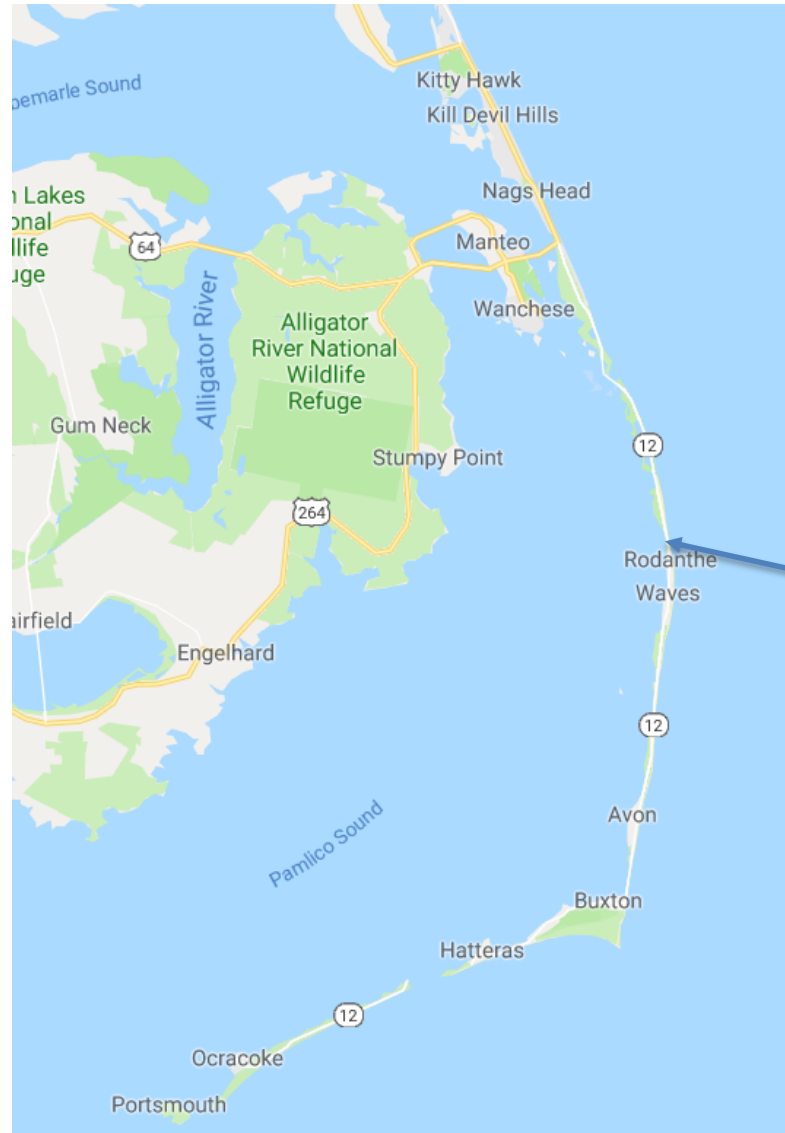
October 2011



December 2019



Rodanthe



Rodanthe

Rodanthe – Hurricane Irene 2011



Rodanthe – Hurricane Irene - 2011



Rodanthe

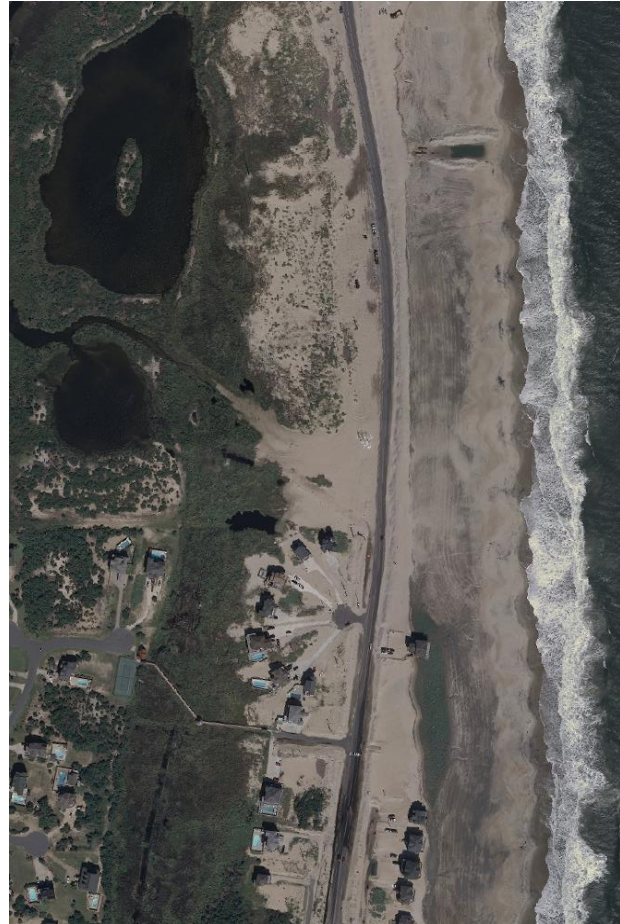
August 2011



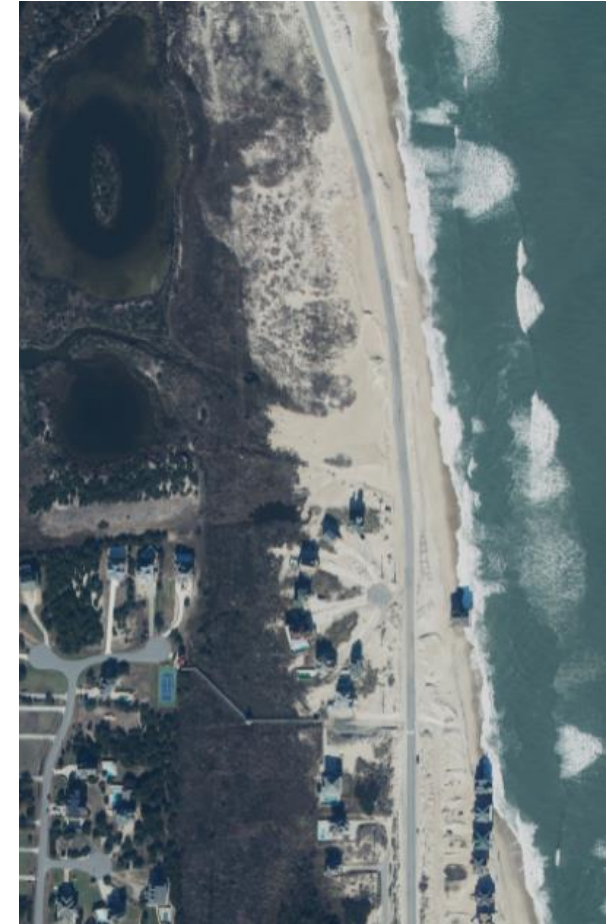
October 2011



October 2014



December 2019



Rodanthe – October 2019

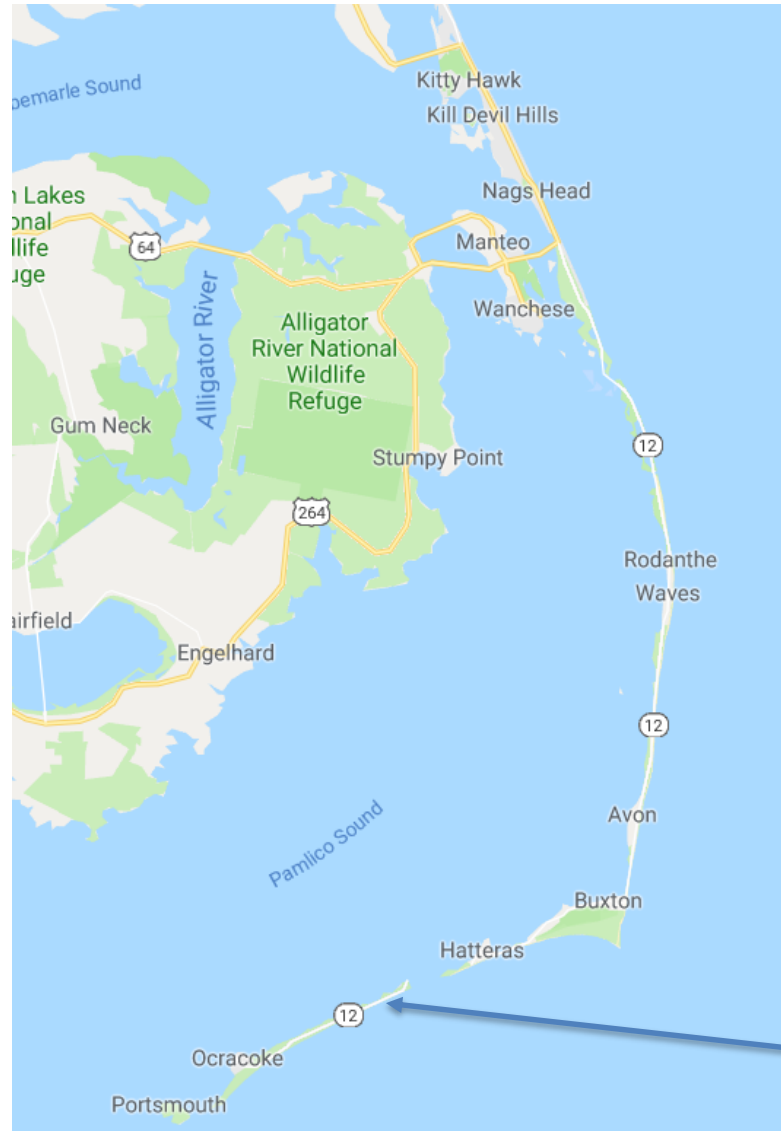




Rodanthe



Ocracoke



Ocracoke/South Dock

Ocracoke - South Dock



Ocracoke - South Dock



Ocracoke – Hurricane Florence



Ocracoke – Hurricane Dorian



Ocracoke – Hurricane Dorian



Ocracoke – Hurricane Dorian



Impacts

- Maintenance and repair costs
- Drain on maintenance resources
- User impacts – closures/limited access



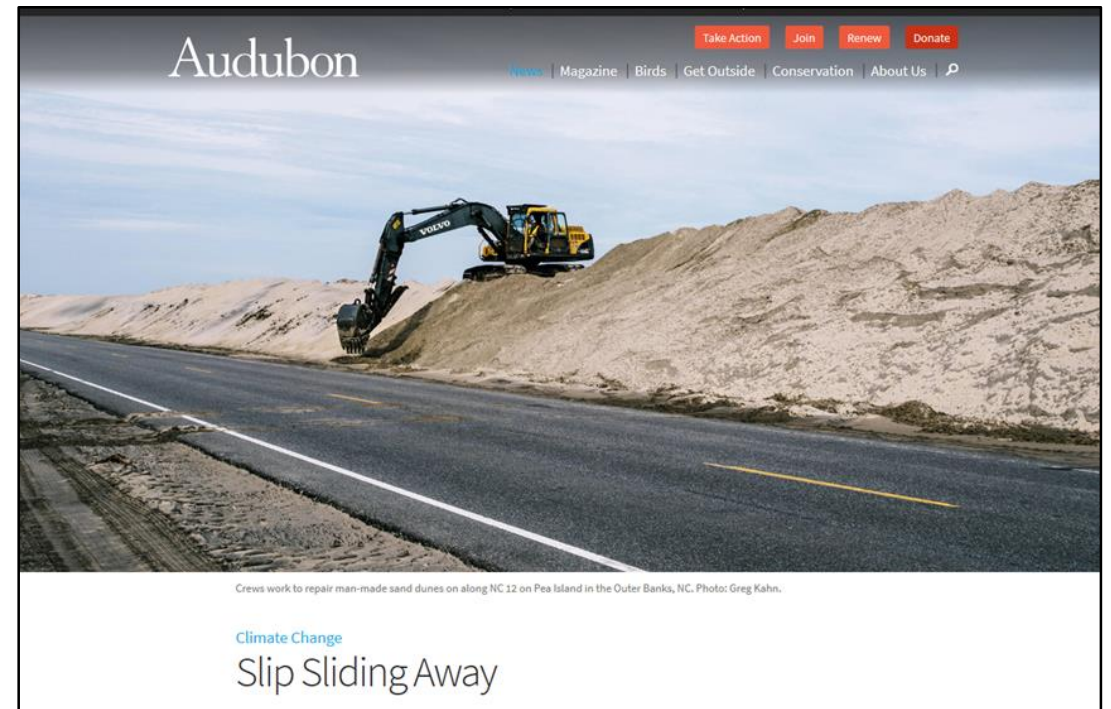
Response Options

- Rebuild dunes
- Sandbags
- Beach nourishment
- Road relocation
- Bridges
- Ferries



Future Challenges

- Coastal Monitoring Program
- Feasibility Studies
- Funding



Questions?



Jerry D. Jennings, PE
Division Engineer
(252) 482-1850
jjennings@ncdot.gov



North Carolina Department of Transportation
Materials and Tests Unit – Product Evaluation Program
Innovative Technologies and Products Awareness Report
March 4th, 2020



PRODUCT HIGHLIGHT – Rumble Rack

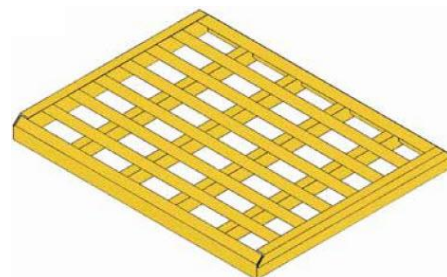


Before & after image of small truck tire using Rumble Rack – image from ACF Environmental Brochure

The Rumble Rack is approved for a Field Trial Use and is produced by ACF Environmental; it is listed on the Approved Products List (APL) as NP17-7998. Rumble Racks are construction entrance Best Management Practice (BMP) that help remove sediment from the tires of vehicles leaving the construction site.

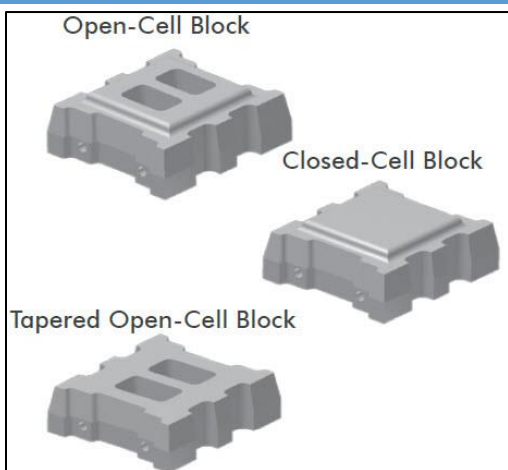
Rumble Racks are manufactured from heavy duty steel and can be moved from site to site. The angled edges improve cleaning by agitating tires and flexing the treads to help dislodge material. They are load rated for 40,000lbs per axle, and weigh-in at 1700 lbs. each. Each Rumble Rack is made in 10' x 8' or 10' x 10' sections and can be installed end to end or side by side. For more information, please visit

<https://acfenvironmental.com/>



Top-angle view of Rumble Rack – image from ACF Environmental Brochure

PRODUCT INNOVATION – ArmorFlex® Articulating Concrete Blocks



Depictions of three different approved block shapes – image from ArmorFlex® brochure

ArmorFlex® Articulating Concrete Blocks (ACB) are a permanent erosion control and slope stability revetment control system that is manufactured by Contech® Engineered Solutions (A Quikrete Company). ArmorFlex® ACB is approved for provisional use and is listed on the APL as NP17-7913 for the Closed-Cell version, NP17-7914 for the Open-Cell version, and NP17-7915 for the Tapered Open-Cell version. The ArmorFlex® ACB system is composed of individual concrete blocks in various shapes. The blocks are then joined by steel cables forming mats of various sizes; these mats are then filled after placement with soil to promote stability and vegetative growth. ArmorFlex® can be used in most applications that require permanent erosion control and slope protection measures, including, channel lining, shore protection, outfalls, weirs, spillways, lakes, reservoirs, etc.



Worker connecting concrete blocks together to form ArmorFlex® mat (left image), machine placing mats of concrete blocks into place with equipment (right image) – images from ArmorFlex® brochure

For more information regarding technical specifications, testing, installation and sizing options, please visit: <https://www.conteches.com/erosion-control/hard-armor/armorflex>



NORTH CAROLINA Department of Transportation



Board of Transportation Work Session: Resilience Activities and NC12

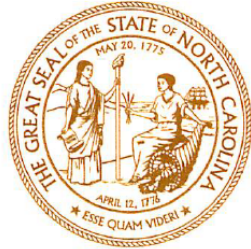
Colin Mellor
Matt Lauffer
Jerry Jennings

March 4, 2020

Agenda

- Resilience Program - Colin Mellor
- Resilience Activities - Matt Lauffer
- NC 12 Update – Jerry Jennings

Executive Order 80



State of North Carolina

ROY COOPER
GOVERNOR

October 29, 2018

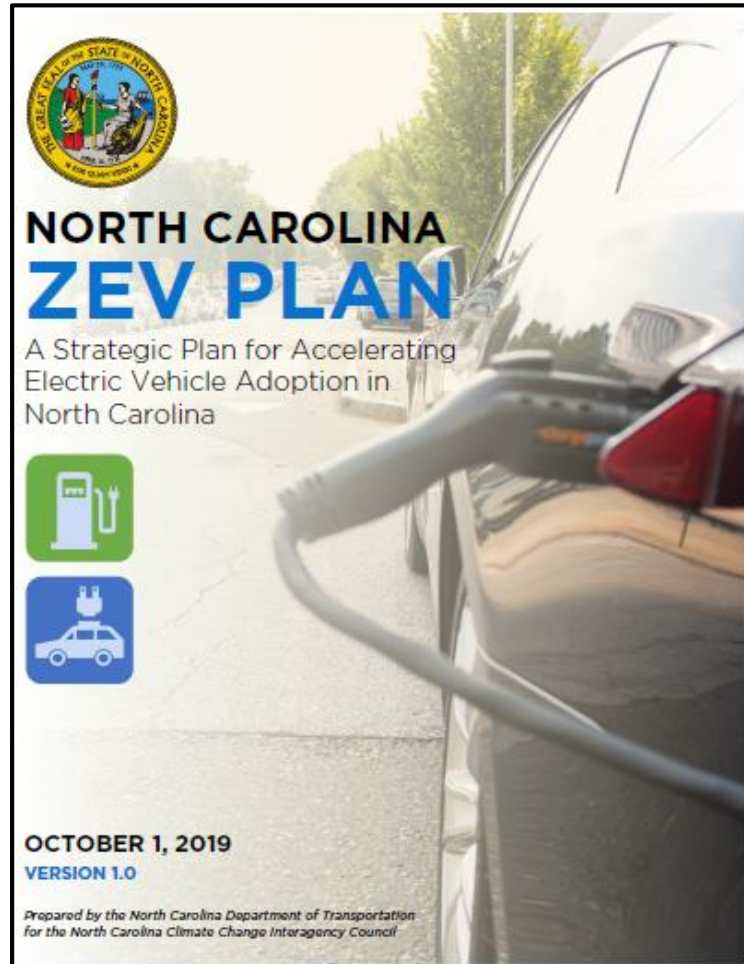
EXECUTIVE ORDER NO. 80

NORTH CAROLINA'S COMMITMENT TO ADDRESS CLIMATE CHANGE AND TRANSITION TO A CLEAN ENERGY ECONOMY

WHEREAS, North Carolina residents deserve to be better educated, healthier, and more financially secure so that they may live purposeful and abundant lives; and

WHEREAS, N.C. Const. art. XIV, § 5 requires the conservation, protection, and preservation of state lands and waters in public trust; and

WHEREAS, North Carolina is well positioned to take advantage of its technology and



Resilience. Resilience or resiliency is the ability to anticipate, prepare for, and adapt to changing conditions and withstand, respond to, and recover rapidly from disruptions

from FHWA Order 5520 - policy on preparedness and resilience to climate change and extreme weather events.



**US-421 at Pender/New Hanover County Line
post Florence**



NC 12 on Ocracoke Island post Dorian

NCDOT Average Annual Storm Costs

2004 – 2016 = ~\$65 Million

2017 – 2019 = ~\$225 Million



- **NC MOVES 2050**
- **State and Federal Agency Partners**
FHWA USACE NCDPS NCORR
- **America's Transportation Infrastructure Act 2019**
 - **Authorizes \$287 Billion over 5 years**
 - **\$4.9 Billion over 5 years specifically for a resiliency program to protect roads and bridges from natural disasters**

Agenda

- I-95/I-40 Flood Resilience Feasibility Study
- Resilience Demonstration (SB 356)
 - Vulnerability Assessment of Strategic Transportation Corridor
 - Living Shoreline Projects
 - Flood Inundation Mapping Alert Network for Transportation
- Resilience Research

I-95/I-40 Flood Resilience Feasibility Study

Methodology of Approach

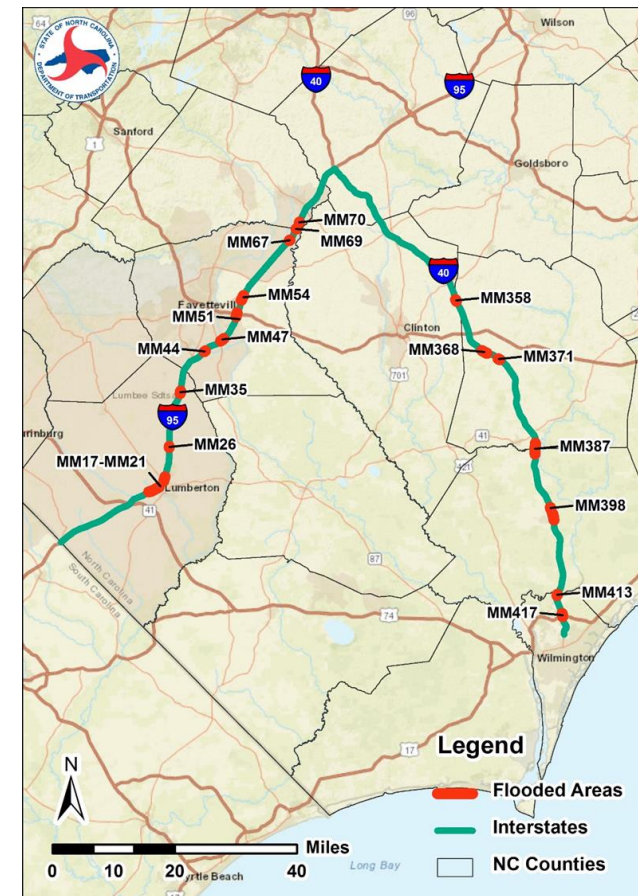
- Assess Vulnerability
- Define Resilience Criteria
- Identify Improvement Options





I-95/I-40 Vulnerability

- Interviews with Divisions
 - Field Visits with Divisions
 - Additional Field Investigations
-
- I-95 –10 flooded locations
 - Flood depths from 0.5' to 5' above the roadway
 - Flood durations from a few hours to more than one week
 - I-40 –7 flooded locations
 - Flood depths from 0.5' to 7' above the roadway
 - Flood durations from ½ day to 5 days



Resilience Criteria



- Hurricane Matthew and Hurricane Florence Highwater Elevations
 - 100-Year Flood Design Criteria
- ➔ 100 Year Flood – 1% Chance Per Year
50 Year Flood – 2% Chance Per Year
25 Year Flood – 4% Chance Per Year



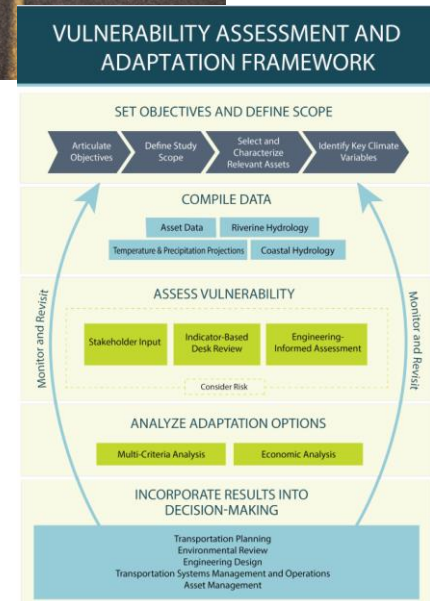
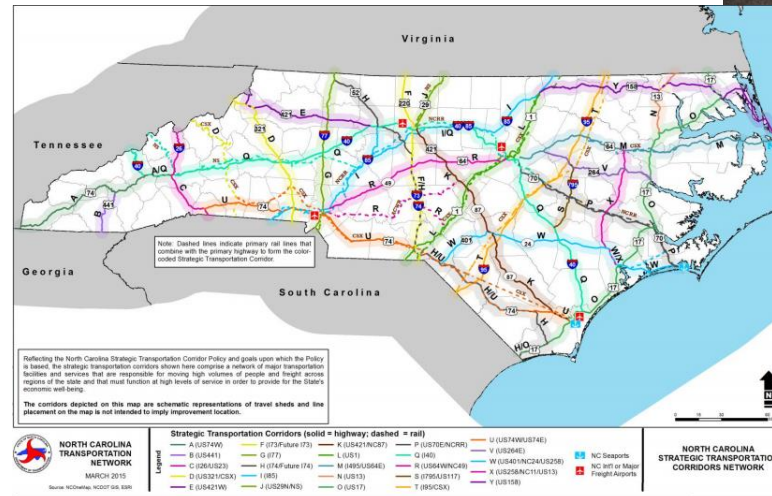
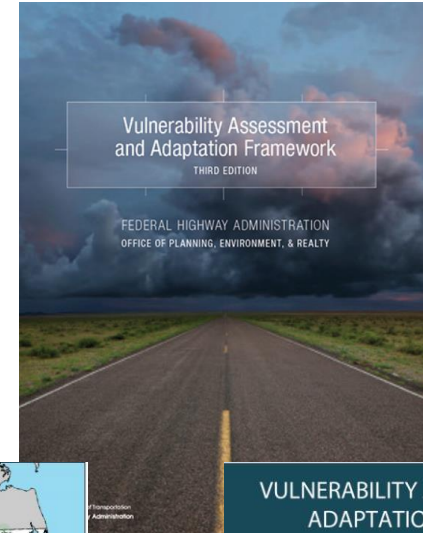
Improvement Options Considered



- Elevate the roadway
- Increase conveyance of the Bridge / Culvert / Cross-pipe
 - Stand-alone improvement or in conjunction with elevating the roadway
- Construct Roadside Flood Barriers (Permanent or Temporary)
 - Earthen Berms, Sheet Piles, Flood walls and temporary flood barrier walls considered
- Construct Drainage Improvements
- Improve Existing Alternate Routes
 - US 421, US 117 and NC 24 considered
 - US 301 deemed not viable

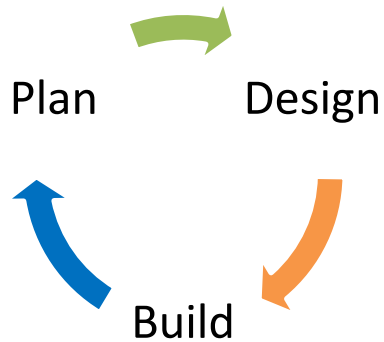
Resilience – Vulnerability Assessment

- 25 Corridors
- Identify Hazards
- VAST – Vulnerability Assessment Scoring Tool
- Pilot Two Corridors



Resilience – Living Shorelines

- 2,700 Miles of Road under 10 feet in elevation
- Sea Level Rise
- Loss of Habitat
- Reduce vulnerability



MARSH (SILL)

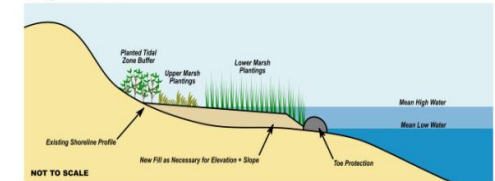
The construction of a marsh, including fill and plantings, fronted by toe protection in the intertidal zone of a shoreline.



MARSH (SILL)

The construction of a marsh, including fill and plantings, fronted by toe protection in the intertidal zone of a shoreline.

Design Schematics



MARSH (BREAKWATER)

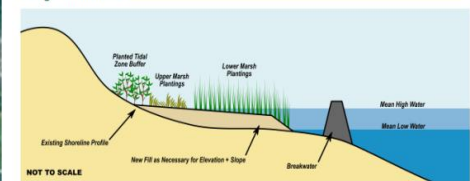
The construction of a marsh, including fill and plantings, in the intertidal zone of a shoreline, including segmented breakwaters to reduce incident wave energy.



MARSH (BREAKWATER)

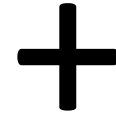
The construction of a marsh, including fill and plantings, in the intertidal zone of a shoreline, including segmented breakwaters to reduce incident wave energy.

Design Schematics



Resilience – FIMAN-T

- Partnership with Emergency Management – FMP
- Pilot Tested in Neuse River Basin in 2019
- Riverine Flooding and Coastal Surge
- Expansion in 2020 will focus on:
 - End-User Tools
 - Addition of multi-modal facilities
 - FIMAN-T moved from Test Server to Production Server
 - Expanding gages and network



Flood Resilient



Search Gages

Roads Summary

Bridge Summary

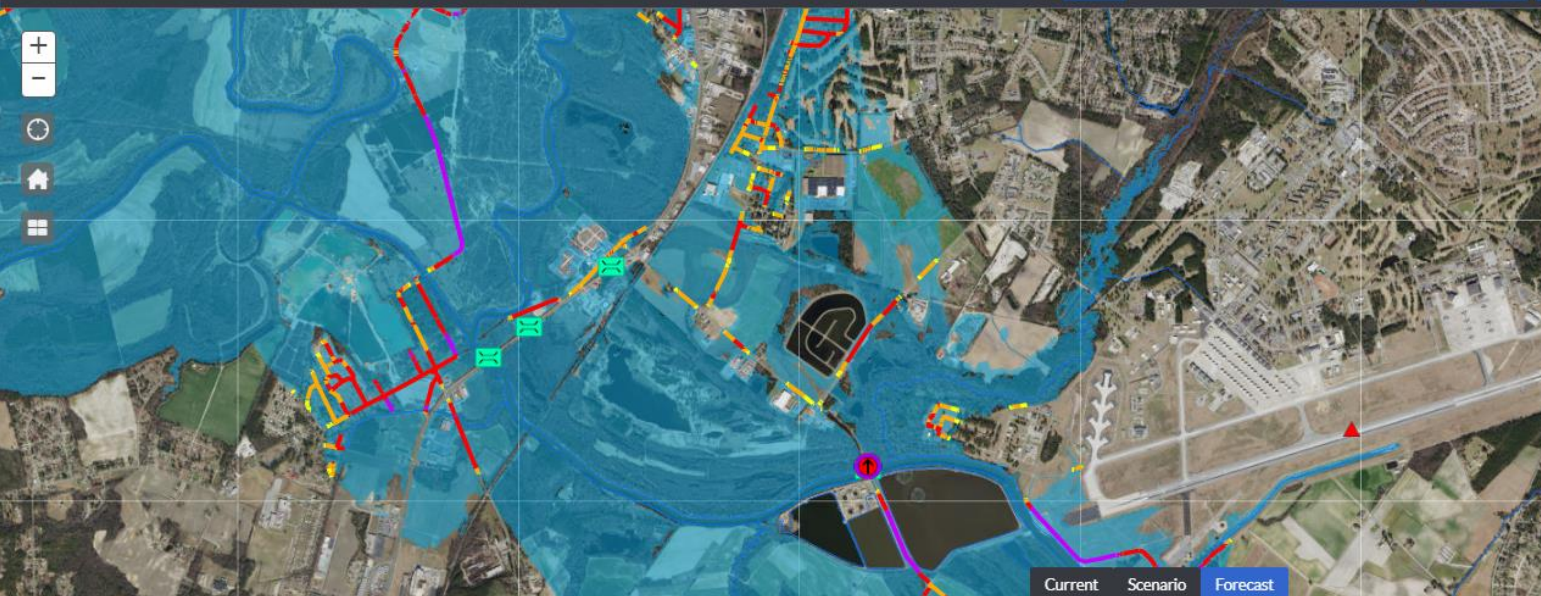
Legend

Weather Radar

Show Local Roads

Show Assets

Show Bridges



Current Scenario Forecast



Neuse River near Goldsboro

Last updated: 9/16/2018 12:00:00 PM

Gage datum: 41.9ft NAVD88

Site ID: 02089000

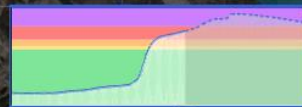
Owner: USGS

Report

Stage: 22.3 ft

64.2 ft NAVD 88

Stream Elevation



Rising

Peak Stage: 27.6 ft

9/18 2:00 PM
No Data Available

Forecasted Peak



92 Roads - 26.6 Mi.

Interstate US Hwy State Hwy Local
0 1 3 88

Roads Affected

18 Assets

10 Bridges

DOT Assets Affected

Neuse River near Goldsboro

Forecast Stage: 27.6 Ft

Elevation: 97.1 (NAVD 88)

Bridges

Assets

Export to Excel

Road Name	Bridge Number	Flood Source	Road Elevation (ft)	Low Chord Elevation (ft)	Current / Scenario WSEL	Freeboard (ft)
NC581	950314	Neuse River Overflow	65.2	60.7	65.5	-4.8
NC111	950042	Neuse River Overflow	63.0	59.8	61.9	-2.1
NC111	950054	Pond Off Neuse River	63.9	60.7	61.9	-1.2
NC581	950018	Neuse River	72.5	69.1	69.7	-0.6
US13/US117	950052	Neuse River Overflow	74.4	72.2	72.6	-0.4

1 2

1 - 5 of 10 items

Legend

NCDOT Assets

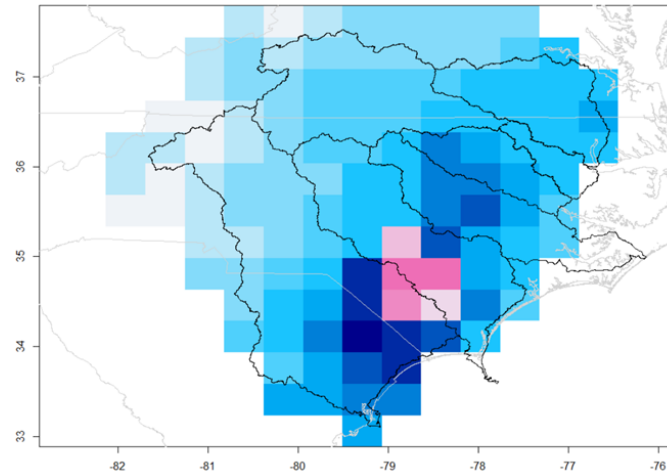
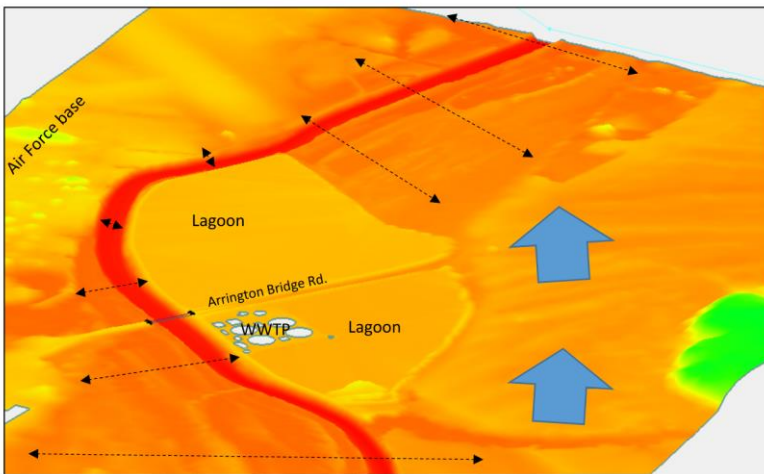
Bridges

Road Inundation Levels

- > 5 Ft
- 2 - 5 Ft
- 0.5 - 2 Ft
- 0 - 0.5 Ft

Resilience – Research

- Flood Abatement Studies
- Future Event Research
- National Cooperative Research Program (NCHRP) 15-61



NCHRP Project 15-61

**Applying Climate Change Information
to Hydrologic and Coastal Design of
Transportation Infrastructure**

Final Report

PREPARED FOR
THE NATIONAL COOPERATIVE HIGHWAY RESEARCH PROGRAM
TRANSPORTATION RESEARCH BOARD

Thank You!



**RESOLUTION BY THE BOARD OF TRANSPORTATION IN SUPPORT OF THE
NORTH CAROLINA TRANSPORTATION INNOVATION COUNCIL**

WHEREAS, the North Carolina Department of Transportation (NCDOT) strives to be a leader in the country in planning for and delivering diverse, safe and sustainable transportation options to the citizens of North Carolina; and

WHEREAS, the NCDOT has been recognized as a national leader in innovation in project delivery, process improvement and many other cross cutting areas in its transportation program; and

WHEREAS, the NCDOT believes current and advancing technologies will change how transportation options are delivered in the future; and

WHEREAS the NCDOT and the Federal Highway Administration (FHWA) established the North Carolina Transportation Innovation Council (NC-TIC) in 2011; and

WHEREAS, the NC-TIC has historically participated in three programs: Everyday Counts (EDC), State Transportation Innovation Council (STIC) Incentive, and Accelerated Innovation Deployment (AID); and

WHEREAS, FHWA has empowered NCDOT to use the STIC model as an important vehicle to expand innovation and pursue new technologies; and

WHEREAS, the North Carolina Board of Transportation's Advanced Technology Committee desires to fully support the NCDOT in development and expansion of new technologies and innovation in transportation; and

NOW, THEREFORE, BE IT RESOLVED THAT THE BOARD OF TRANSPORTATION hereby affirms NC-TIC as an important vehicle through which NCDOT will pursue and support new technologies and innovative pursuits to further expand the thriving transportation ecosystem in the State of North Carolina;

Signed: _____
Chairman, North Carolina Board of Transportation

Date: _____

Signed: _____
Secretary, North Carolina Department of Transportation

Date: _____

RESOLUTION FOR UNIVERSITY OF NORTH CAROLINA AT CHAPEL HILL 2019 NCAA WOMEN'S FIELD HOCKEY NATIONAL CHAMPIONSHIP

WHEREAS, the University of North Carolina at Chapel Hill requests eight championship signs for winning the 2019 Women's Field Hockey National Championship on November 24, 2019; and

WHEREAS, the Team won the championship title against the University of Princeton with a 6-1 victory and finished the season 23-0, securing their second consecutive national title and their second straight unbeaten season; and

WHEREAS, the Team won its eighth NCAA title, all under coach Karen Shelton; and

WHEREAS, this championship win meets the criteria to obtain a championship sign.

NOW, THEREFORE, BE IT RESOLVED:

That the North Carolina Board of Transportation honors the University of North Carolina at Chapel Hill with eight national championship signs that read *North Carolina Tar Heels 2019 Field Hockey National Champions*.

That appropriate signs will be erected at a suitable time.

Adopted this the 5th day of March 2020 by the North Carolina Board of Transportation.


Chairman


Secretary of Transportation



ADVANCED TECHNOLOGY COMMITTEE MEETING MINUTES

DATE: 12/4/19 TIME: 11:15 am LOCATION: EIC

MEETING CALLED BY	Chairwoman Nina Szlosberg-Landis called the meeting to order.
BOARD ATTENDEES	Nina Szlosberg-Landis, Tony Lathrop, Billy Clarke, Dirk Cody, Landon Zimmer, John Pope

AGENDA TOPICS

1. APPROVAL OF MEETING MINUTES – CHAIRWOMAN NINA SZLOSBERG-LANDIS	
DISCUSSION SUMMARY	Chair Szlosberg-Landis stated that the meeting minutes were distributed prior to the meeting, and if there are no additions or corrections, the Chair would accept a motion that the minutes from the November 6, 2019 meeting minutes be approved as submitted.
ACTIONS TAKEN	A motion was made by Board Member Clarke. It was seconded by Board Member Cody to approve the meeting minutes as distributed. The committee voted unanimously to approve the meeting minutes.

2. BUILDING A CULTURE OF INNOVATION – CHIEF DEPUTY SECRETARY, DAVID HOWARD AND KRISTAL HIGH	
DISCUSSION SUMMARY	<p>An overview was presented on NC-TIC (Transportation Innovation Council) Work Groups and Priorities.</p> <p>A brief history of FHWA NC-TIC program & processes was explained as well as the restructuring plan to include Innovation, Academia and Industry work groups. Each work group roles of responsibility to the Department were discussed.</p>
ACTIONS TAKEN	N/A

3. CHAIRWOMAN, NINA SZLOGSBERG-LANDIS	
DISCUSSION SUMMARY	Committee members should be prepared to work towards crafting a policy statement to present to the full board in February of 2020 and receive full board approval in March of 2020.
ACTIONS TAKEN	N/A

MEETING ADJOURNED (TIME): 11:50 AM



ADVANCED TECHNOLOGIES COMMITTEE (ATC) AGENDA

BOARD OF TRANSPORTATION FEBRUARY 5, 2020

TIME: 3:30 PM

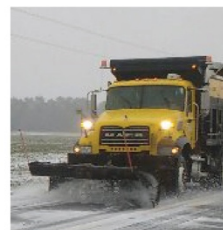
LOCATION: 150

TOPIC	PRESENTER	TIME
Call to Order Roll Call Declaration of Quorum Approval of December 4, 2019 Meeting Minutes	Nina Szlosberg-Landis, Chair	3:30-3:35
Opening remarks	Nina Szlosberg-Landis, Chair	3:35-3:40
Overview of the Office of Science, Technology & Innovation at the Department of Commerce	John Hardin, Executive Director of NC Department of Commerce	3:40-4:00
DMV Modernization	Torre Jessup, DMV Commissioner Patt Talvanna, Talvanna Consulting	4:00-4:40
NC-TIC Resolution (NORTH CAROLINA TRANSPORTATION INNOVATION COUNCIL)	Nina Szlosberg-Landis, Chair	4:40-4:50
Other Discussion	Nina Szlosberg-Landis, Chair	4:50-4:55
Adjourn	Nina Szlosberg-Landis, Chair	4:55-5:00



NORTH CAROLINA

Department of Transportation



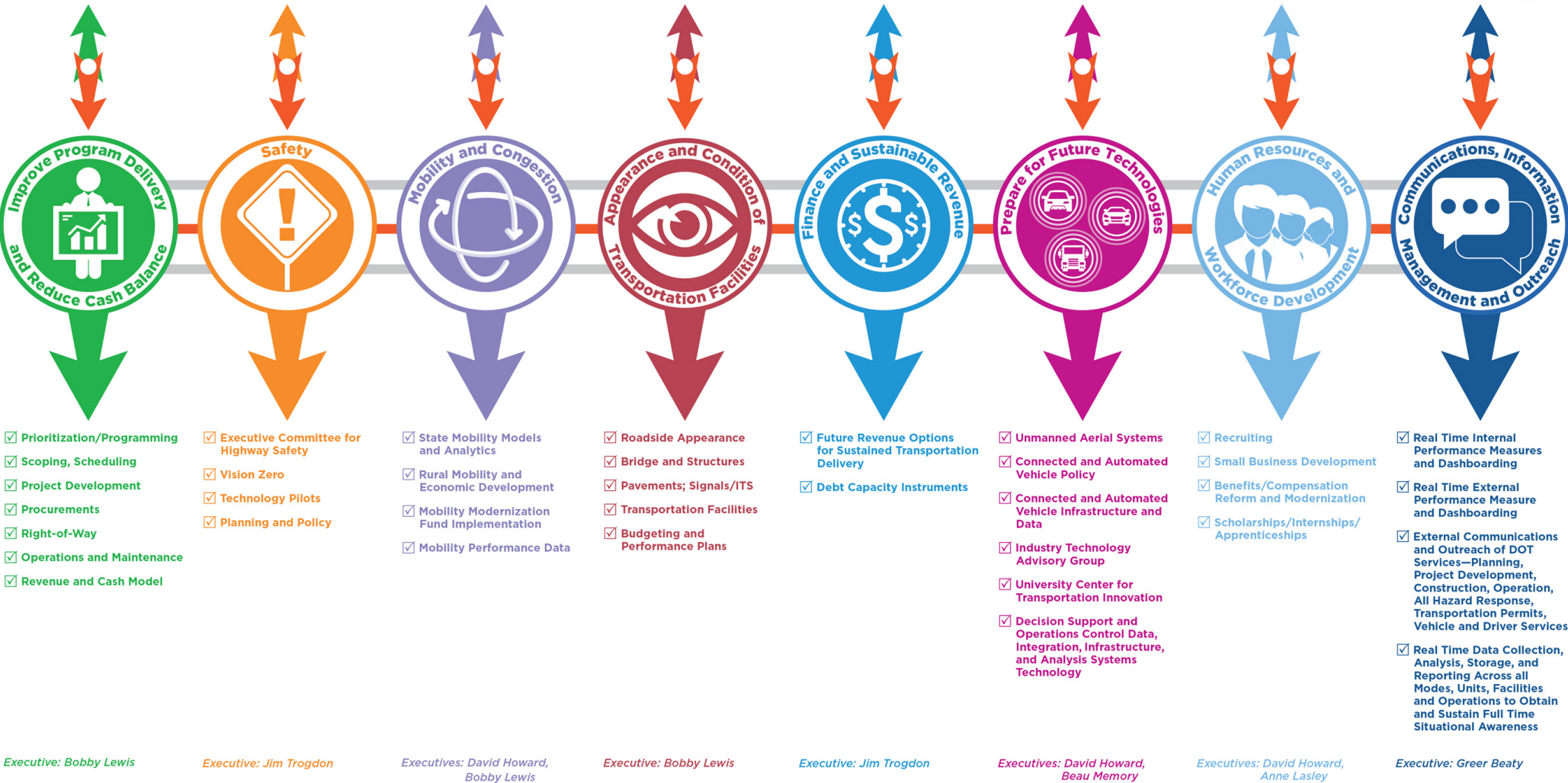
Building a Culture of Innovation

December 4, 2019

NCDOT Priorities and Work Groups

Better Transportation Service for North Carolina

Our Mission: Connecting people, products and places safely and efficiently with customer focus, accountability and environmental sensitivity to enhance the economy and vitality of North Carolina.



The logo for the State Transportation Innovation Councils (STIC) features the acronym "STIC" in a bold, purple, sans-serif font. Below the acronym is a green arrow pointing to the right, which contains the text "State Transportation Innovation Councils" in a smaller, white, sans-serif font. The entire logo is set against a white background with a faint, circular, blue and grey splatter effect around it.

State Transportation Innovation Councils

Mission

The mission of the North Carolina Transportation Innovation Council (NC-TIC) is to ***accelerate and help scale innovation*** within NCDOT and the state's surrounding transportation ecosystem by providing a platform for innovation, programming, and guidance on policies and best practices to ensure efficient investment in, and development and management of, North Carolina's transportation infrastructure.

Brief History

- 2010 FHWA initiates “Every Day Counts”
- 2011, NCDOT and FHWA established the North Carolina Transportation Innovation Council (NC-TIC)
 - Co-led by
 - NCDOT’s Chief Engineer and
 - FHWA’s NC Division Administrator
- Historically, the NC-TIC participated in three programs:
 - **Every Day Counts (EDC)** - identifies and rapidly deploys proven, yet underutilized innovations.
 - **STIC Incentive** - provides technical assistance and up to \$100,000 in total funds per state to offset the costs of standardizing innovative practices.
 - **Accelerated Innovation Deployment (AID)** - provides up to a maximum of \$1,000,000 to cover the full cost of innovation in a project.

Brief History

- NC-TIC included members from the following agencies:
 - NC Local Technical Assistance Program
 - Local Public Agencies (American Public Works Association)
 - MPOs (NC Association of Metropolitan Planning Organizations)
 - RPOs (NC Association of Rural Planning Organizations)
 - Contractors (American Concrete Pavement Association, Carolina Asphalt Pavement Association, and Carolinas Associated General Contractors)
 - Consultants (American Council of Engineering Companies)
- Currently, the Department is in the process of transforming the NC-TIC to fully comply with the mission of fostering a collaborative culture within NCDOT beyond the minimum federal guidelines.
 - NC-TIC site: <https://connect.ncdot.gov/groups/NCSTIC/Pages/default.aspx>
 - FHWA STIC site: <https://www.fhwa.dot.gov/innovation/stic/>

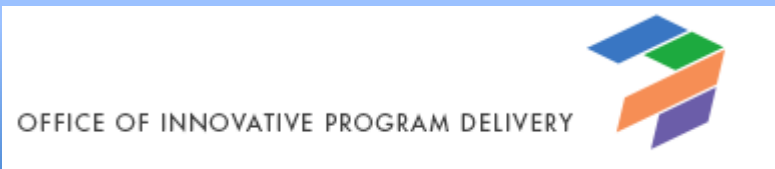
Restructuring NC-TIC

- New NC-TIC builds on past initiatives
- Structured to expand opportunities with government, education and industry working in partnership
- Targeted leadership committees include:
 - **NC-TIC Executive Committee**
 - **Advanced Technology Board Subcommittee**
 - **NC-TIC Technical Coordination Committee**
 - **NC-TIC Industry Advisory Council**
 - **Executives in Residence for Innovation + Science**

Restructuring NC-TIC

- **The new structure of the NC-TIC includes three work groups:**
 - **Innovation**
 - **Academia**
 - **Industry**
- Please note the following areas of focus for the NC-TIC are not new business units or staff to NCDOT, but rather the establishment of advisory committees using current staff.

Basis of Structure



CENTER FOR TRANSPORTATION WORKFORCE DEVELOPMENT

Delivering programs and initiatives that build transportation career awareness and improve workforce development, capability and diversity of our nation's transportation workforce.

CENTER FOR LOCAL AID SUPPORT

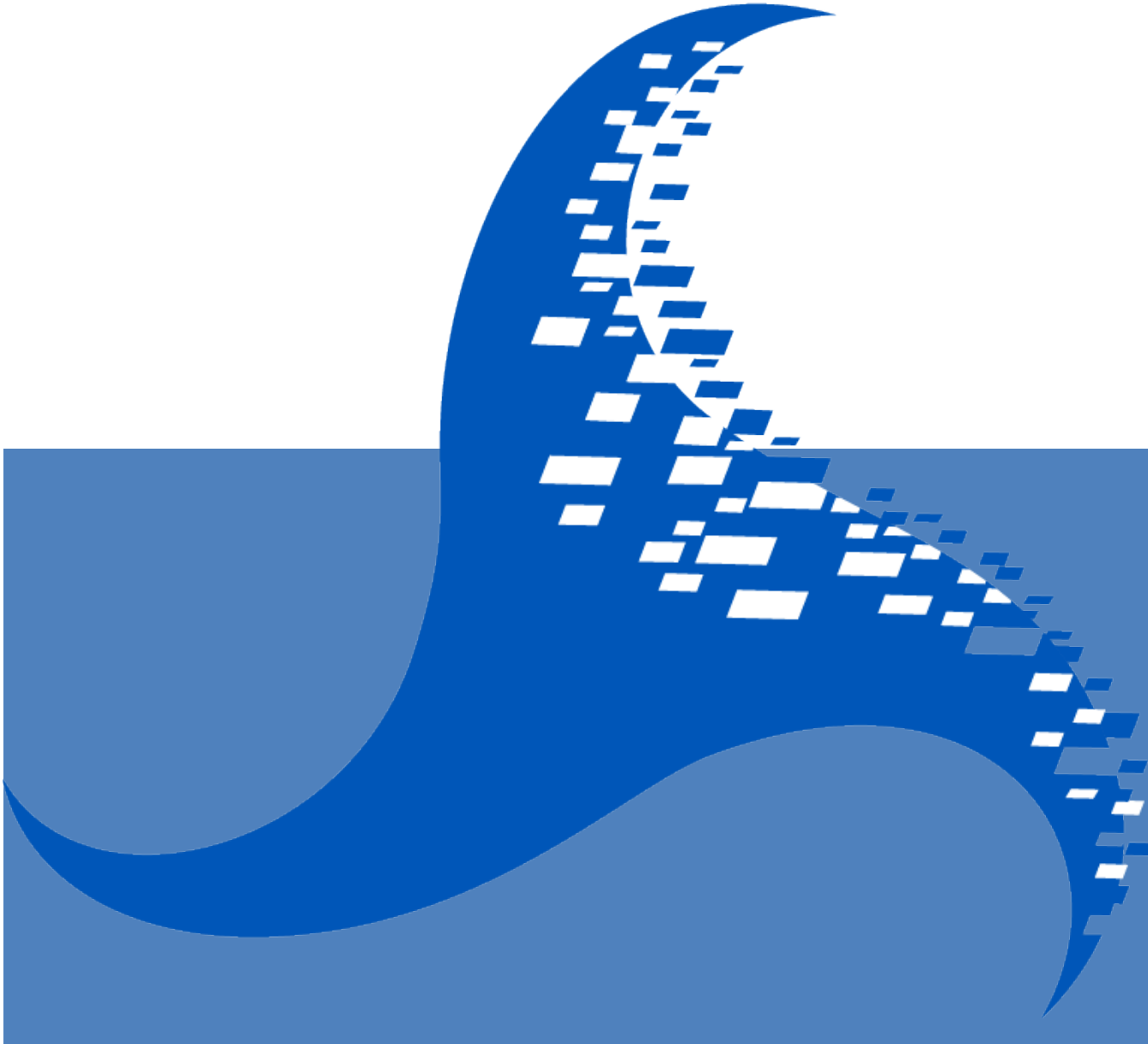
Providing national training and technical assistance networks to help local governments, tribes and land management agencies enhance roadway networks and create economic opportunity.

CENTER FOR INNOVATIVE FINANCE SUPPORT

Providing technical assistance, tools and training in the use of innovative finance and revenue strategies to bridge funding gaps and accelerate project implementation.

CENTER FOR ACCELERATING INNOVATION

Fostering the accelerated adoptions of innovation across the transportation community.



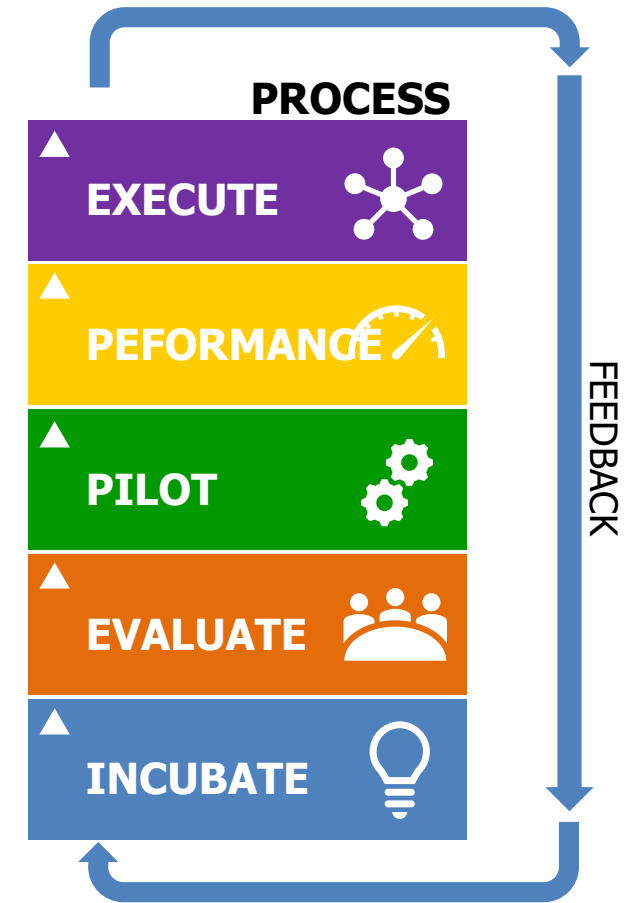
Innovation

REBECCA J. GALLAS, P.E.

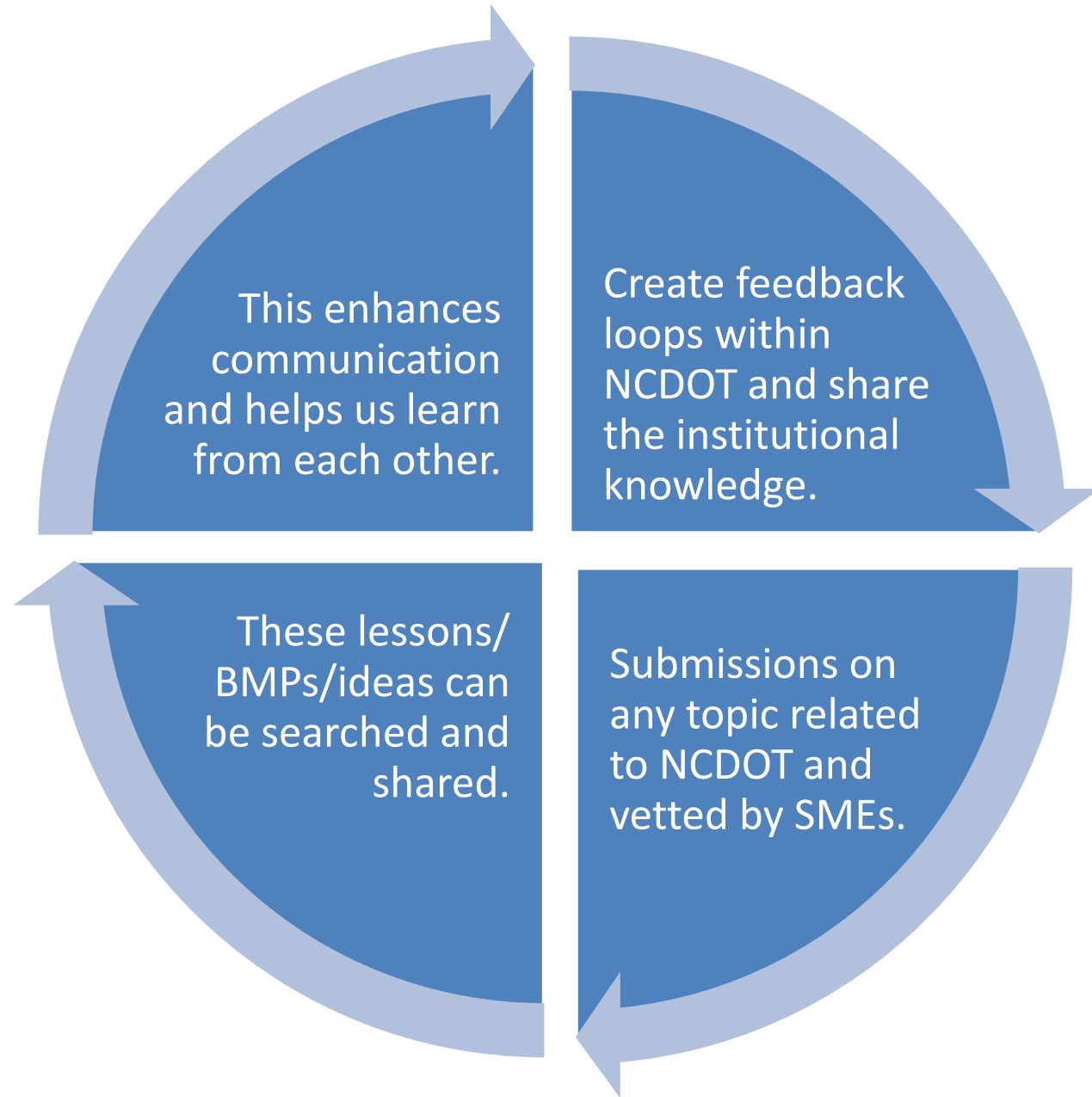
Promoting Internal Innovation

OI²Advisory
Committee**GOALS:**

- FHWA Every Day Counts
- Internal Ideas Generator Program
 - Rank & File Ideas (Policy Council Method)
 - Millennial Leadership Academy
 - Leadership
 - Legal Team
- Data/Analytics



What is CLEAR?



FHWA Innovation Programs



Mobility · Safety · Quality · Environment · Shortening Project Delivery

8 of 10

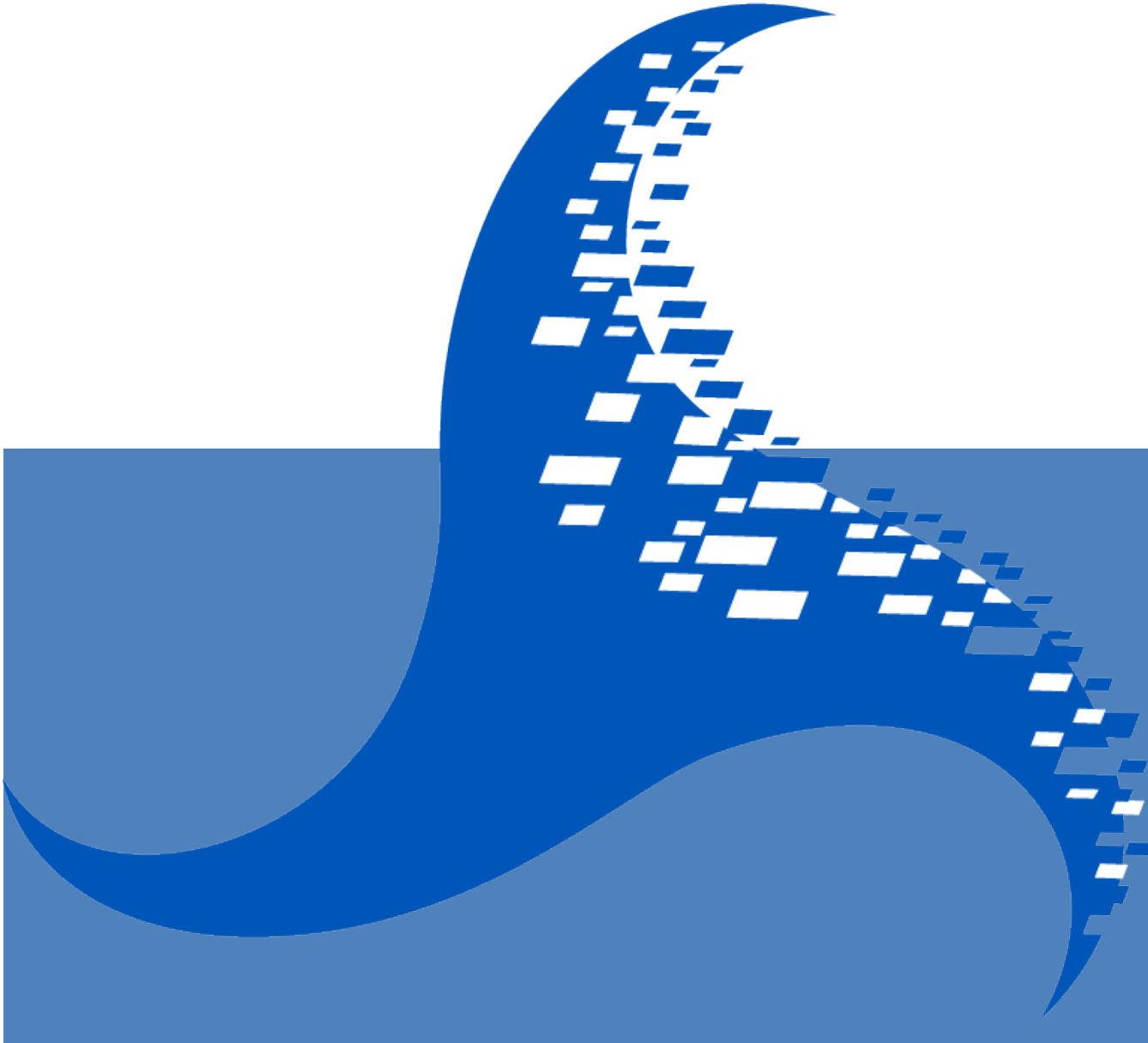
EDC-5 initiatives pursued



7 open projects
(\$315K total in federal funds)



1 proposed project
Harkers Island Bridge CFRP
(\$1M in federal funds)



Academia

NEIL MASTIN, P.E.

Pushing Boundaries with Academia

OAP

Advisory
Committee

GOALS:

- NCDOT University Centers of Excellence (UCEs)
 - *Mobility & Congestion*
 - *Future Technologies*
 - Project Development
 - Safety
- USDOT UTC Partners Council
- Industry Research & Development Partnerships
- Academia Innovation Initiatives
 - (hackathons, competitions, etc.)



Transportation Centers of Excellence Overview

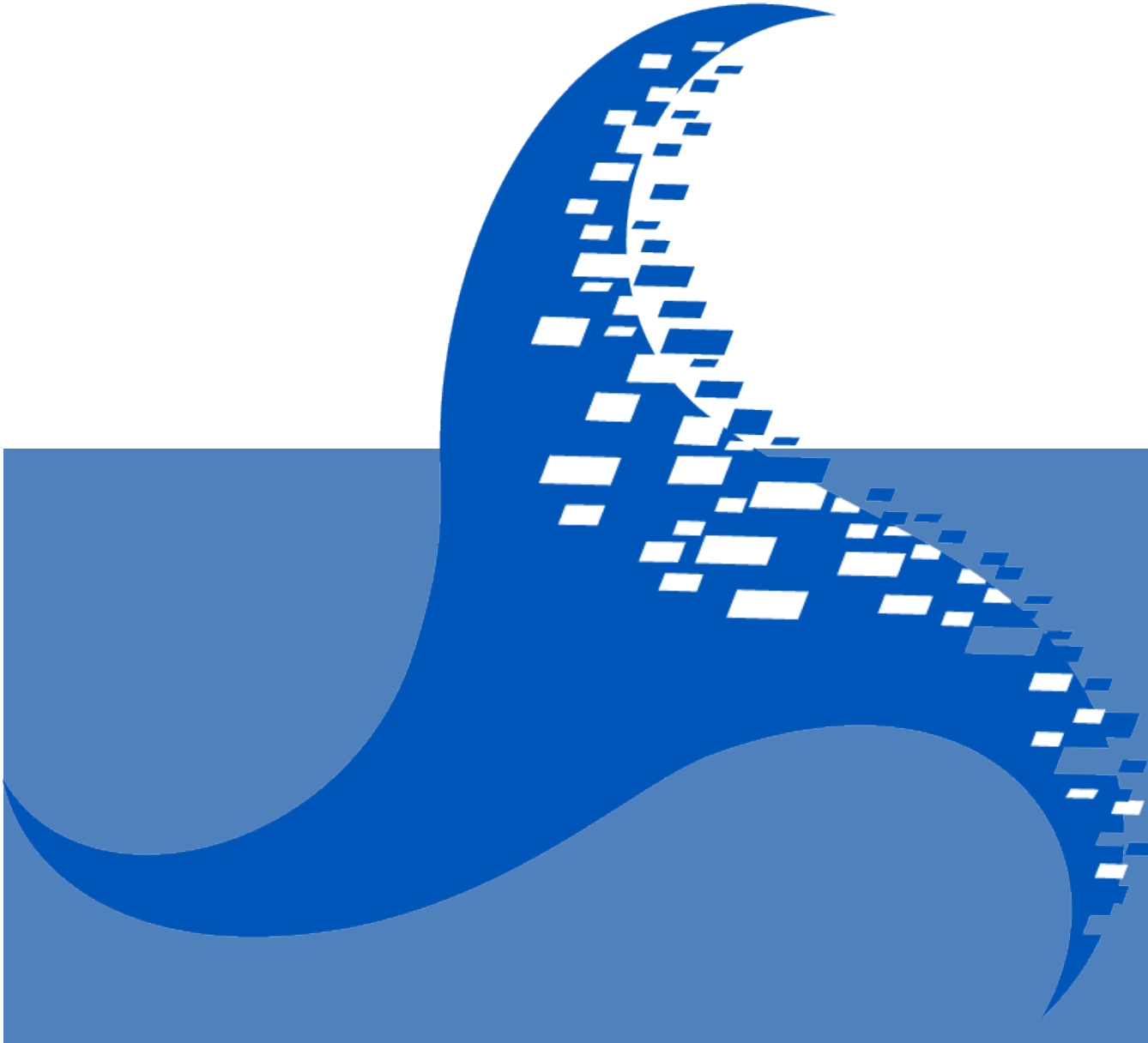
Advertised this summer for \$1M Centers of Excellence

All proposals included substantial HBCU Involvement

Selection made with program to begin in early 2020

Transportation Centers of Excellence Awarded Programs

Proposal Number	Center Name	Topic Area	Director	Lead Institution
CoE-01	North Carolina Center of Excellence on Connected and Autonomous Vehicles (NC-CAV)	Advanced Technology	Ali Karimoddini	North Carolina A&T State University
	Peer Institutions: NC State University / ITRE, UNC Charlotte			
CoE-02	University Transportation Center of Excellence – Mobility and Congestion	Mobility and Congestion	Billy Williams	North Carolina State University / ITRE
	Peer Institutions: Duke University, Fayetteville State University, NC A&T, UNC-CH			
CoE-04	NCDOT Center of Excellence in Advanced Transportation Technologies	Advanced Technology	Randa Radwan	UNC Chapel Hill / HSRC
	Peer Institutions: Appalachian State, NC Central, NC A&T, UNC Charlotte			



Industry

KRISTAL HIGH TAYLOR, ESQ.

Building Partnerships with Industry

OIP

Advisory
Committee

GOALS:

- Industry Information Exchanges
- Minorities in Transportation Tech Initiative
- Industry + Government Partners
- Innovation Initiatives
 - Hackathons
 - Competitions
 - Awards





Preeminent corporate leaders, policy professionals, academic research partners, and subject matter technology, and telecommunications sectors working in concert with staff from NCDOT, FHWA, LTAP, FTA, FRA, FAA, local public agencies, MPOs, RPOs, and industry associations.

CATEGORY	ORGANIZATION
Academia	UNC Chapel Hill NC State North Carolina A&T NC Community Colleges
Data Technology	SAS Cisco Lenovo/IBM Microsoft Transloc
Infrastructure Technology	AT&T Verizon
Regional Technology Companies	IBM (Red Hat) Spirit
Urban	Charter (Charlotte)

INFORMATION EXCHANGES



at&t



BMW
GROUP



LM
local motors



FORD SMART MOBILITY



lenovo

MINORITIES IN TRANSPORTATION TECHNOLOGY INITIATIVE

GALLUP®



BROOKINGS

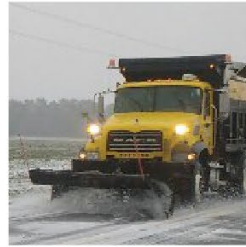


Questions?



NORTH CAROLINA

Department of Transportation



DMV Modernization

Advanced Technology Committee

Patt Talvanna • February 5, 2020

Driver License Office (DLO) Scorecard

Select Global Report Time



North Carolina Department of Transportation

Division of Motor Vehicles

DMV State Scorecard

Video Tutorials

[Account Setup and Access](#)

[Tips for Viewing and Navigating Reports](#)

[Overview of DMV State Scorecard](#)

Quick Start Guides

[Introduction](#)

[Home Page](#)

[Reports](#)

Report User Guide

[DMV State Scorecard User Guide](#)

Help

[User Account Help](#)

For user account help click here.

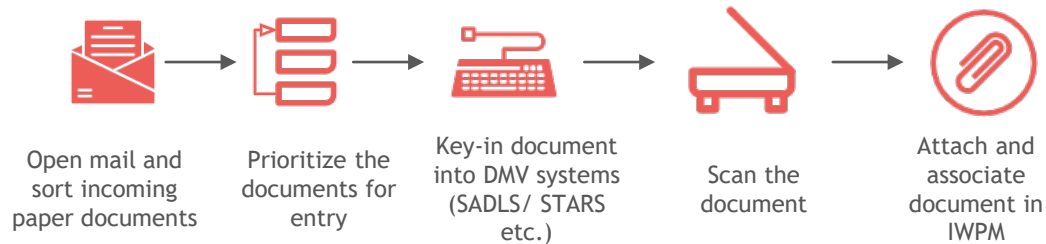
[Contact SAS Technical Support](#)

For report questions, please inform SAS Technical Support that you are hosted by **GHUSPS (Global Hosting and US Professional Services)** and make sure you reference **70157606** as your **site**

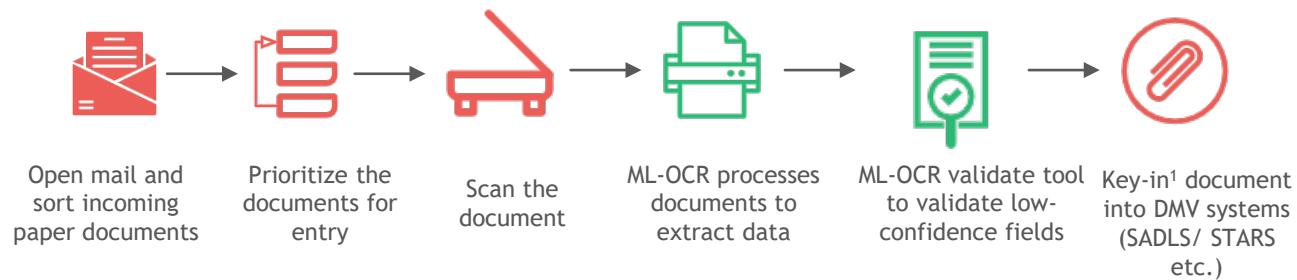
Backoffice Operations

Machine Learning based OCR will significantly increase document processing accuracy and throughput

Current processing of incoming documents



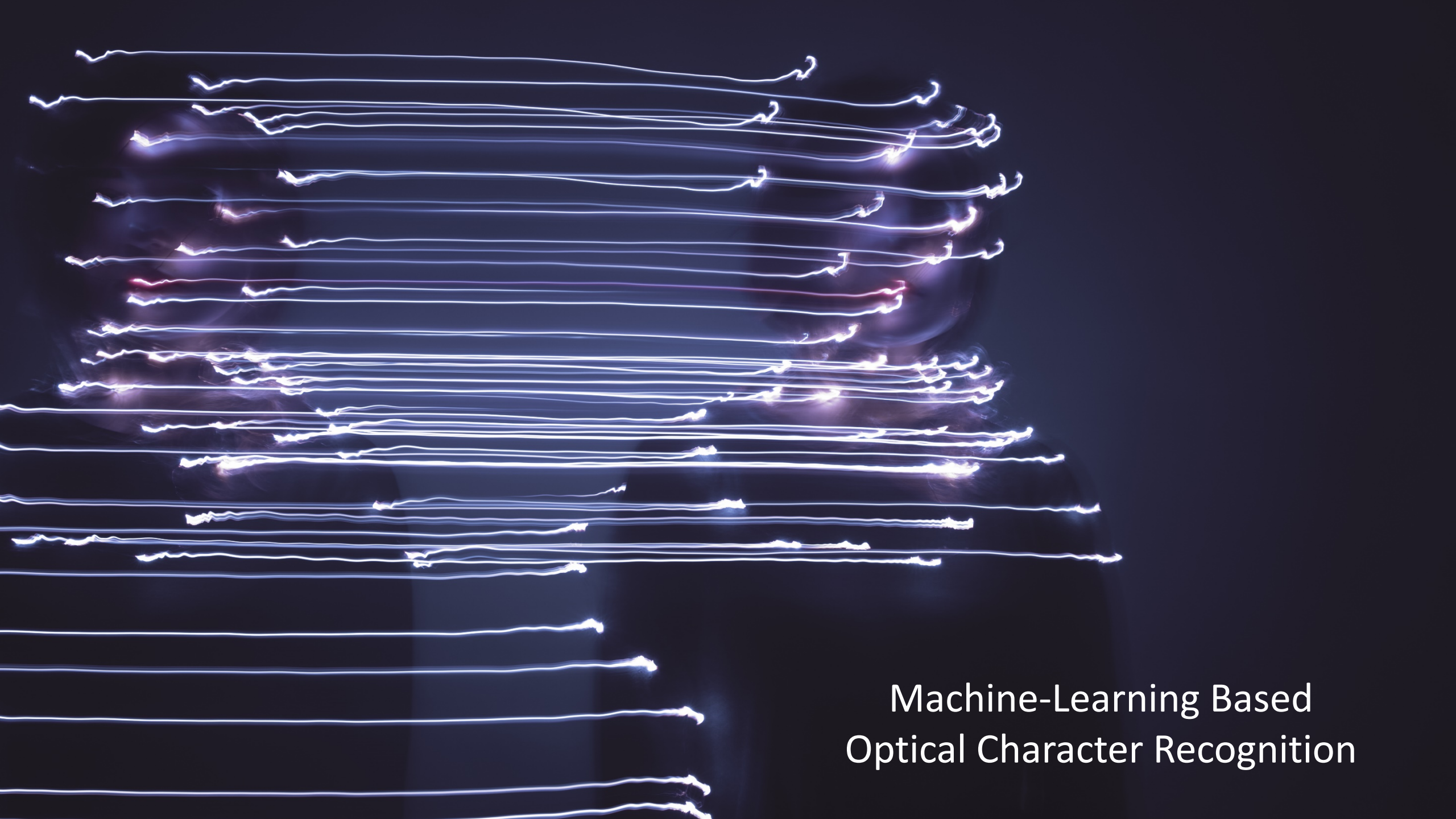
ML-OCR enabled processing of incoming documents



■ Processed by human ■ Processed by ML-OCR

ML based OCR can process unstructured data with high accuracy and continuous machine learning

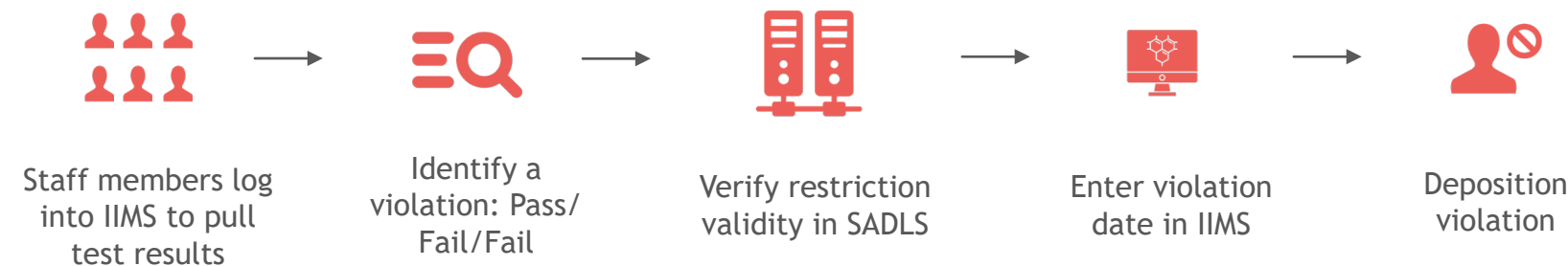
- Machine learning approach - models interpret and extracts complex information anywhere on the document and continuously learns and improves over time (no templates needed)
- Simple to implement - only requires a small sample dataset to create highly accurate models. Information can be used to extract from any document type
- Human-in-the-loop - allows humans to perform QA and improve overall accuracy



Machine-Learning Based Optical Character Recognition

RPA-enabled automation of Ignition Interlock violation processing

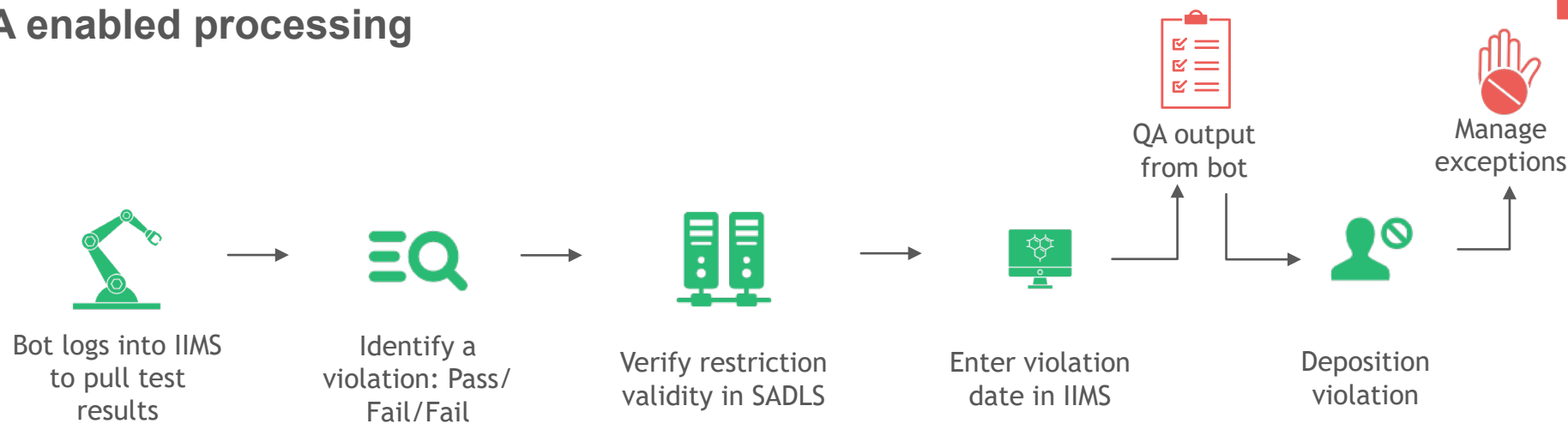
Manual processing



■ Processed by bot

■ Processed by human

RPA enabled processing



A close-up, artistic photograph of a circuit board. The image shows intricate copper traces and numerous solder points, some of which are highlighted with green solder. The background is dark and out of focus, emphasizing the metallic components in the foreground.

Robotic Process Automation (RPA)

Natural language processing underlying search capability provides accurate results for customer queries

Standard search query processing



Smart search query processing



Natural language processing and machine learning capabilities makes it ideal for the execution of the customer web self-service use case. It can understand query intent to rapidly guide the customer to the precise answer

- Deep learning models providing human-level understanding and performance
- Omni-channel search capabilities to provide a unified customer experience across multiple channels like search, SMS, voice chat, and web chat
- Human-in-the-loop tagging enables real-time learning and fine-tuning of AI capabilities
- In-page search highlighting of the exact sentence, paragraph or chart containing the precise answer to the question



Natural Language Processing



ECONOMIC DEVELOPMENT AND INTERGOVERNMENTAL RELATIONS (EDIR) COMMITTEE

AGENDA

BOARD OF TRANSPORTATION MARCH 4, 2020

TIME: To begin immediately following the work session and last approximately 60 minutes.

LOCATION: Room 150

TOPIC	PRESENTER	TIME
Call to Order Roll Call Declaration of Quorum Approval of October 2, 2019 Committee Meeting Minutes	Hugh Overholt, Chair	5 minutes
Opening Remarks	Hugh Overholt, Chair	5 minutes
Global TransPark Authority Update	John Rouse, Executive Director	40 minutes
Committee Discussion and Planning	Hugh Overholt, Chair	10 minutes
Adjourn	Hugh Overholt, Chair	Adjourn

NORTH CAROLINA GLOBALTRANSPARK



“To *enhance* the economic well-being of *North Carolinians* by providing multi-modal capabilities for *global* commerce.”



NORTH CAROLINA GLOBALTRANSPARK

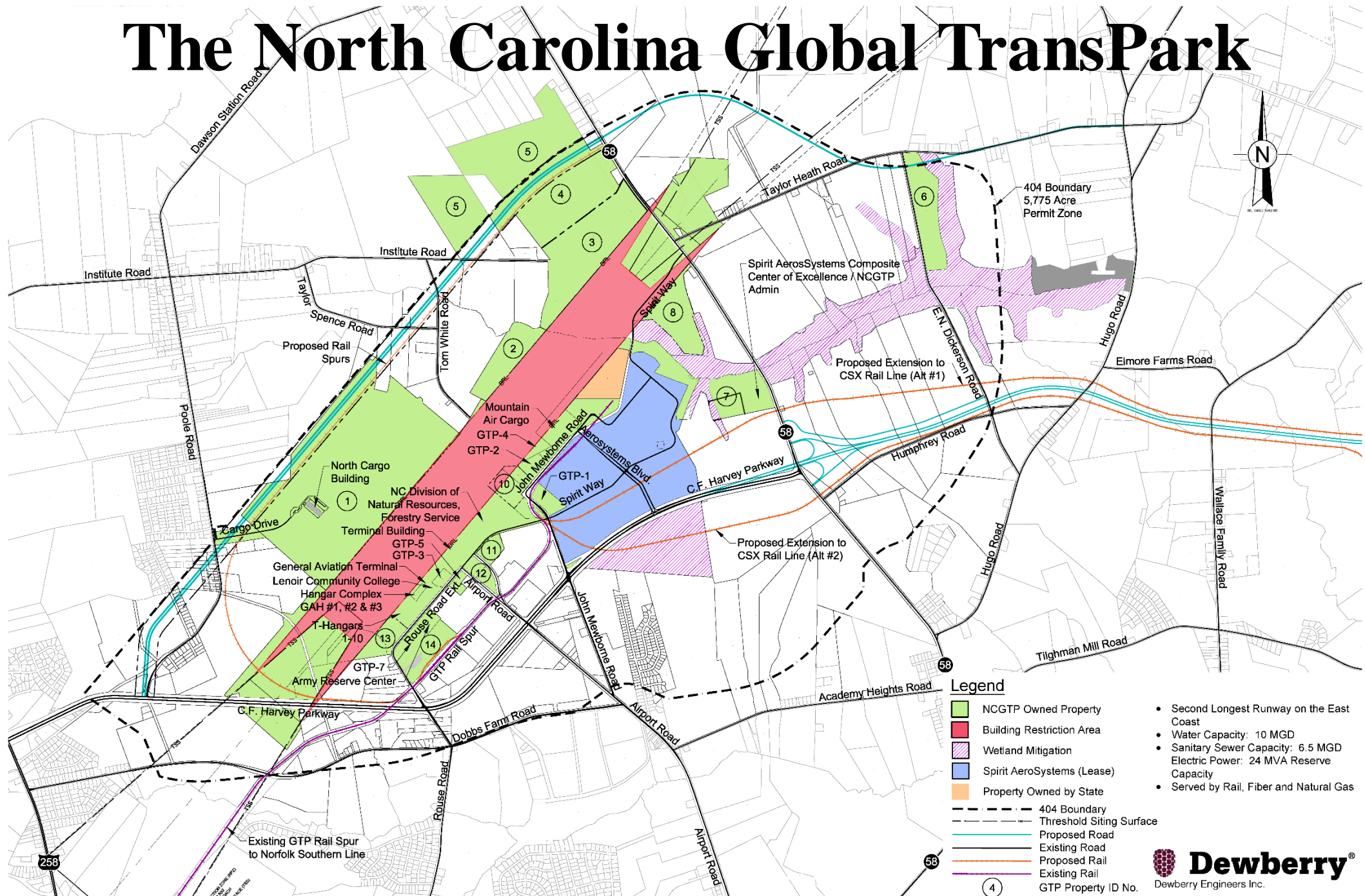


NORTH CAROLINA **GLOBAL**TRANSPARK

- **870-ACRE
MULTIMODAL PARK**
- **500 ACRES “SHOVEL READY”**
- **TRANSLOAD CAPABILITIES**
- **FOREIGN TRADE ZONE #214**
- **NC OPPORTUNITY ZONE**

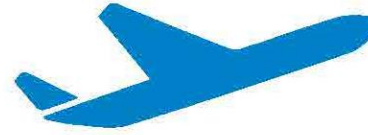


The North Carolina Global TransPark



GLOBAL REACH

- **11,500 FT. RUNWAY. *2ND LONGEST IN THE EASTERN UNITED STATES**
- **22,000 AIR FLIGHTS A YEAR**
- **5.8 MILES OF RAIL**
- **INTERSTATES: I-95 (40 MI) FUTURE I-42**
- **PORTS: DIRECT CONNECT**



11,500 ft runway

Certified land parcels with runway access

FAA Part 139 Certified Airfield

24 hour air cargo access

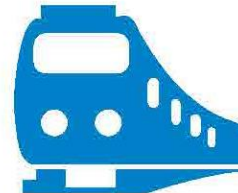


40 miles to I-95

Serviced by future interstate loop



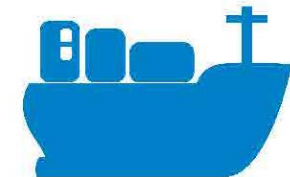
Transload functionality



Future CSX hub within 45 miles

On-site rail spur line

Serviced by Norfolk Southern, CSX and Gulf & Ohio



Easy access to ports

- Morehead City
- Norfolk
- Wilmington



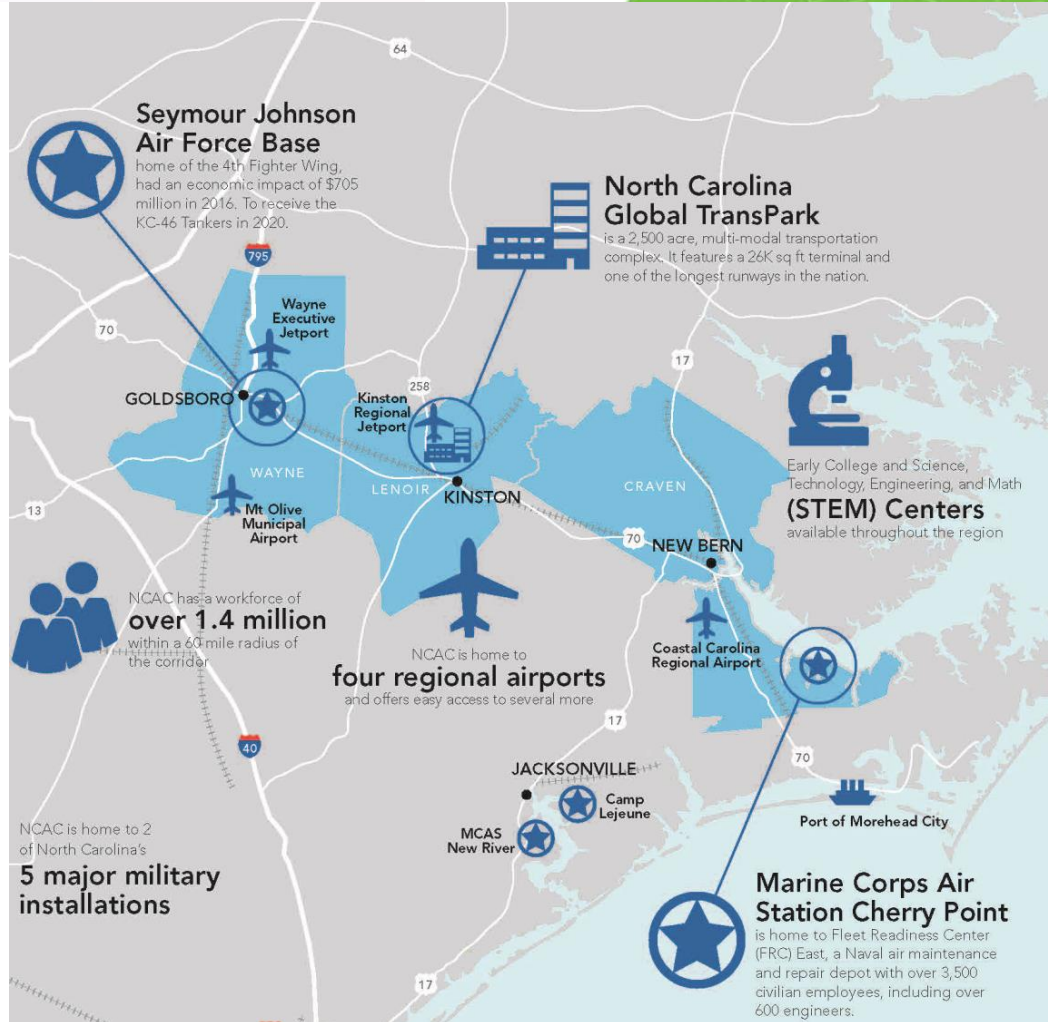
NORTH CAROLINA GLOBAL TRANSPARK



FOREIGN TRADE ZONE #214



FTZ 214



GLOBAL TRANSPARK

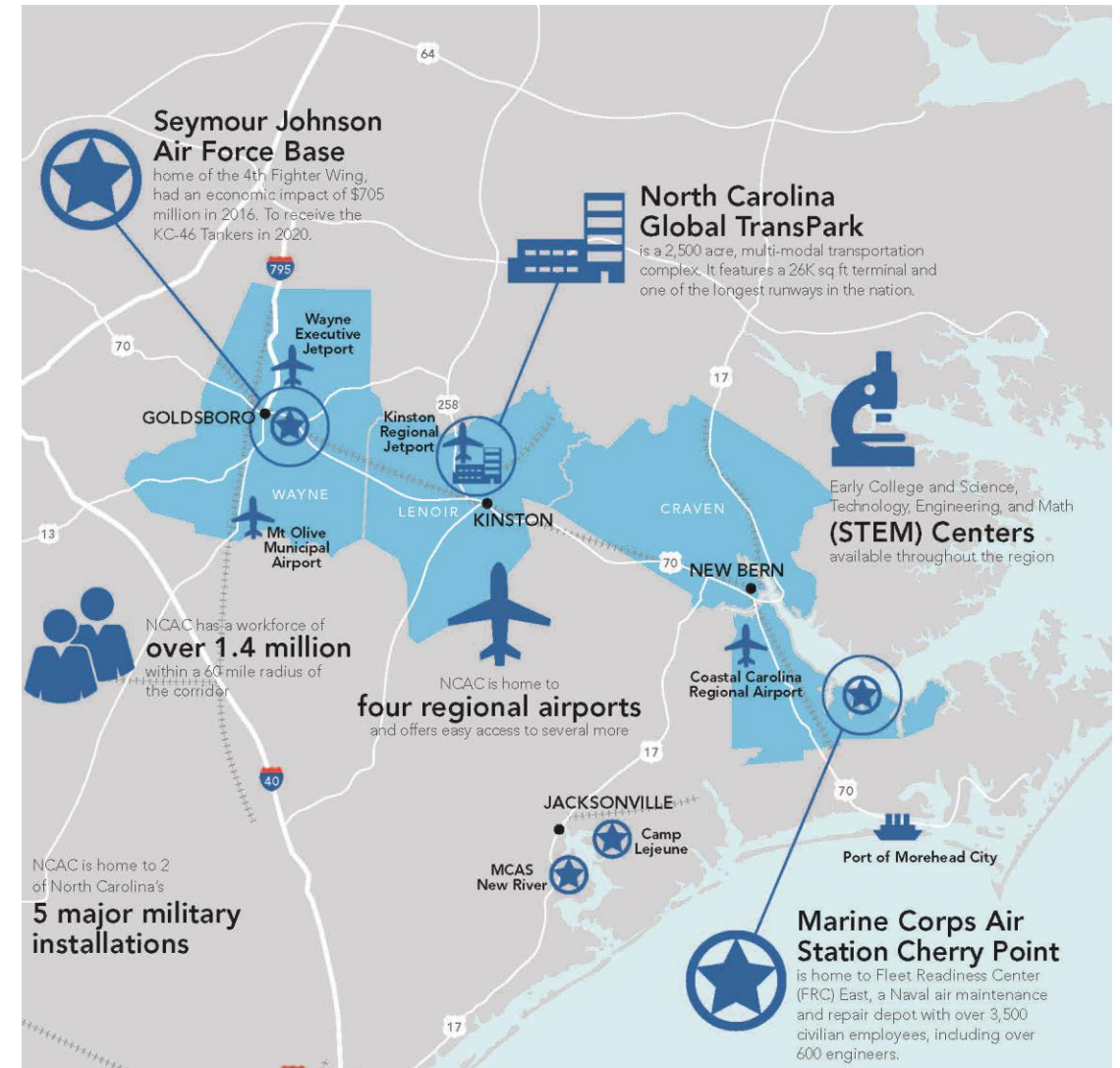
PORT OF MOREHEAD

PORT OF WILMINGTON



NORTH CAROLINA GLOBALTRANSPARK

- 25-year agreement with Department of Defense to use the GTP runway for training
- Designated by USTRANSCOM as an alternate point of aerial embarkation/debarkation for the U.S. Marine Corps
- Air traffic control tower manned from **6:30 AM to 10:00 PM**
- Runway strength of **806,000** pounds/DDTW
- CAT I instrument landing system w/ AWOS III/p
- FAA Part **139** Certified Airfield for Air Carrier Operations
- **404,800** SF of apron space
- Apron strength ranging from **110,000** lbs. DTW (dual tandem) to **806,000** lbs. DDTW (double dual tandem)
- FAA and TSA approved security fence
- FAA Index B with Index C-rated firefighting equipment



NORTH CAROLINA GLOBAL TRANSPARK



- 1,515 Employees
- 12 Tenants
- Workforce from 21 Counties



Training & Innovation



DEVELOPING A
MANUFACTURING
WORKFORCE

lccma.lenoircc.edu

The Customized Training Program (CTP) at Lenoir Community College provides education, training and support services for new, expanding and existing business and industry in Lenoir, Jones, and Greene Counties.

- Job Growth
- Technology Investment
- Productivity Enhancement



NC STATE
UNIVERSITY

NC Military/Workforce



***22,000 exiting military annually**

Jet Stream Aviation, Inc.

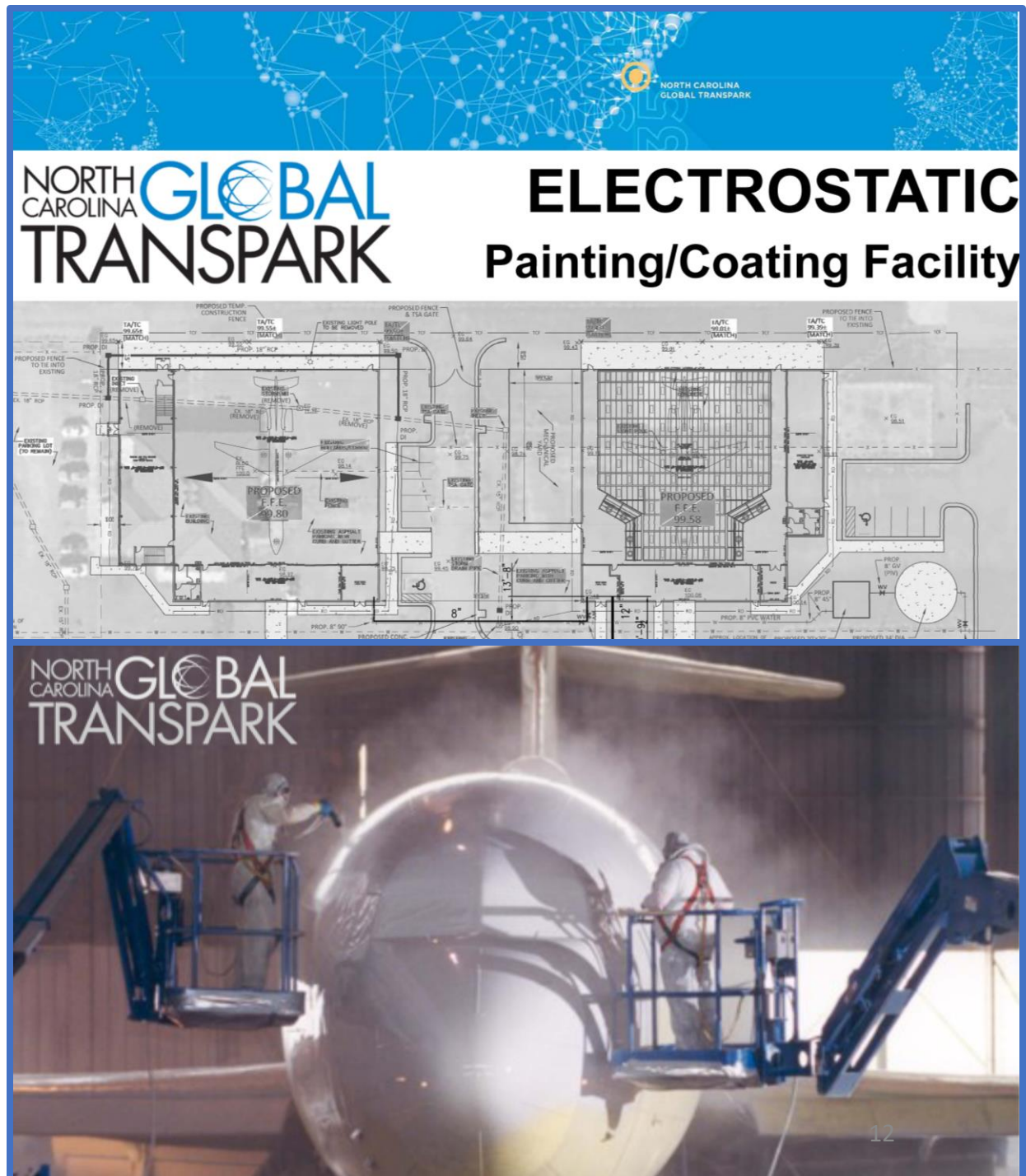
Local News

Gov. Roy Cooper: 145 new jobs are coming to Global TransPark in Kinston

By: WNCT Staff

Posted: Dec 20, 2018 01:32 PM EST

Updated: Dec 20, 2018 06:42 PM EST



AIRCRAFT SOLUTIONS USA, INC.

- Aircraft De-Fleeting / Recycling
- MRO Operations – Maintenance, Repair, and Overhaul
- Parts and Avionics Remanufacture



ACCESS ROAD CONTINUES
TO TIE INTO HOOKS RD
BY CROSSING DITCH

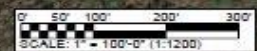


ISO - VICINITY MAP



KINSTON REGIONAL JETPORT - ISO
PROJECT OSTRICH
CONCEPTUAL SITE PLAN
11/14/2019

Western LLC
WESTERN VALUES • WESTERN SPIRIT • WESTERN COMMON SENSE



AIRCRAFT SOLUTIONS USA, INC.

Company Investment

- \$ 99,770,000
- 475 Jobs by 2025 (5 years)



AIRCRAFT SOLUTIONS USA, INC.

State Incentives

Dept. of Commerce

- \$ 4,700,000 Job Development Investment Grant
- \$ 617,500 Community College Customized Training Value

Dept. of Transportation

- \$ 3,500,000 – Industrial Access
- \$ 8,500,000 – Taxiway Improvements

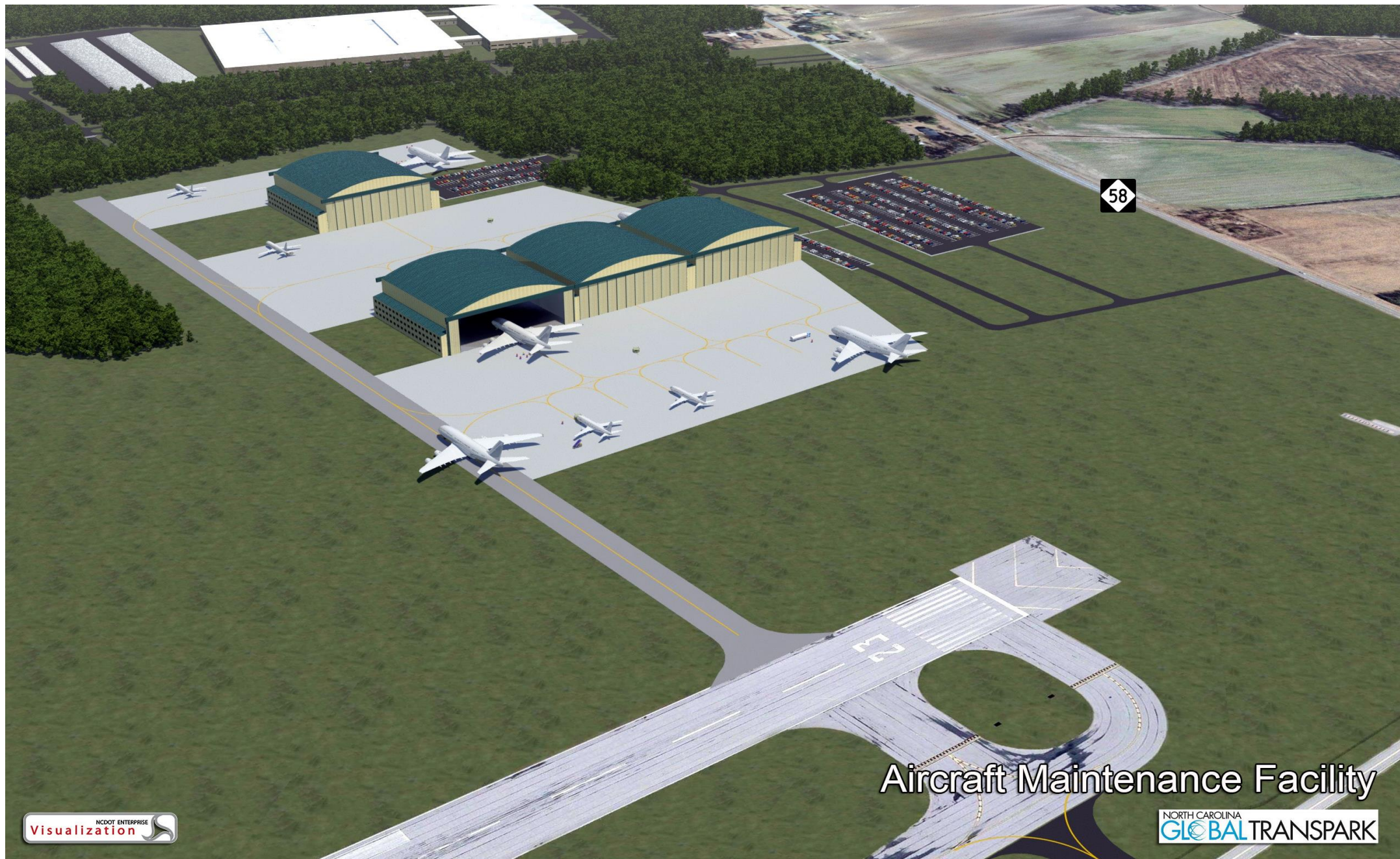


Planned Future Facilities



NORTH CAROLINA
GLOBALTRANSPARK

The logo for North Carolina Global Transpark is positioned on the right side of the slide. It features the words "NORTH CAROLINA" in a small, black, sans-serif font above the word "GLOBAL" in a large, blue, sans-serif font. The "O" in "GLOBAL" is replaced by a stylized globe icon composed of blue lines. To the right of "GLOBAL" is the word "TRANSPARK" in a large, black, sans-serif font. The entire logo is set against a white background that is partially enclosed by a large, blue, circular brushstroke graphic.



Aircraft Maintenance / Repair / Overhaul Facility – 250 acre site available

Aircraft Maintenance Facility



Disaster Command Center – Search & Rescue, Operations, Logistics and Recovery





Defense Aviation Support

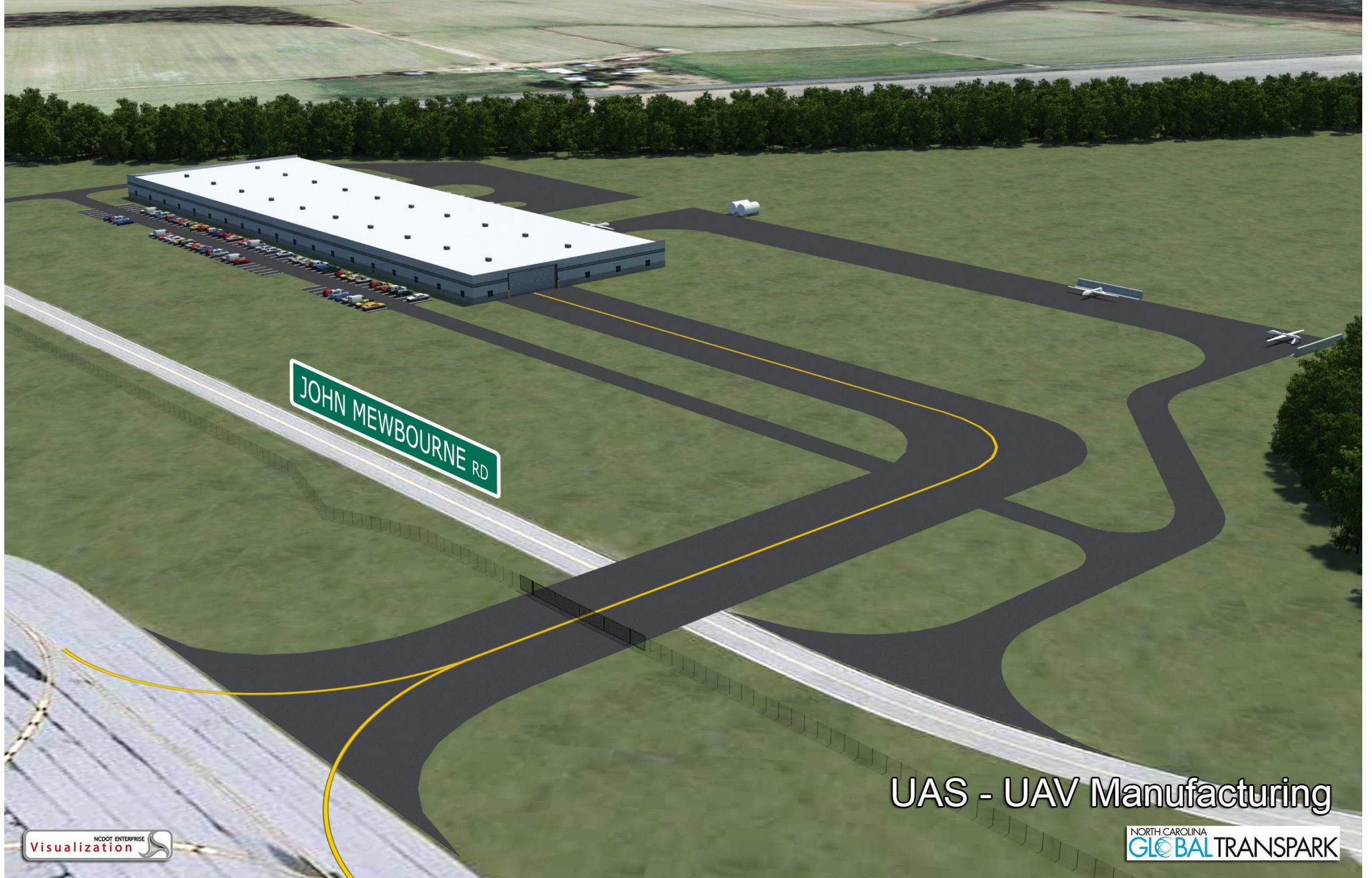
Tactical Flight Support Service Contractor Facility



Defense Aviation Support



UAS - UAV Manufacturing



UAS - UAV Manufacturing

Development Options

- Traditional Leasing
- Land Lease Only
- Build to Suit
- Enhanced Use Leasing
- Intergovernmental Support Agreements



NORTH CAROLINA GLOBAL TRANSPARK

John W. Rouse, Jr., P.E.

Interim Executive Director

2815 Rouse Road Extension

Kinston, NC 28504

jwrouse@ncdot.gov

252.775.6186

www.ncgtp.com





FUNDING APPROPRIATIONS STRATEGIES (FAST) COMMITTEE MEETING MINUTES

DATE: Feb. 5, 2020 **TIME:** 2:03 pm **LOCATION:** Board Room 150

MEETING CALLED BY	Chairman Lathrop called the meeting to order at approximately 2:03 pm on February 5, 2020. Chairman Lathrop stated if there are no additions or corrections, he would accept a motion that the December 4, 2020 meeting minutes be approved as submitted.
BOARD ATTENDEES	Chairman Lathrop confirmed member attendance and declared a quorum. A motion was made by Board Member Overholt. It was seconded by Board Member Alford to approve the meeting minutes as distributed. The vote to approve the meeting minutes was unanimous.

AGENDA TOPICS

1. CASH BALANCE/FINANCIAL UPDATE - EVAN RODEWALD	
DISCUSSION SUMMARY	Evan Rodewald, NCDOT CFO, provided the Cash Balance.
ACTIONS TAKEN	N/A

2. 2030/2050 MULTIMODAL TRANSPORTATION NEEDS - NASTASHA EARLE-YOUNG (NC MOVES), DAVID JACKSON, AND ALPESH PATEL (CAMBRIDGE SYSTEMATICS, INC.)	
DISCUSSION SUMMARY	This presentation discussed the multimodal needs approach for the years 2030 and 2050, the revenue forecast, strategy development, and the next steps in the plan development.
ACTIONS TAKEN	N/A

3. TRANSPORTATION INVESTMENT NEEDS SIMULATOR - KEVIN BAUGHMAN AND JOHNNY STOVER, SAS	
DISCUSSION SUMMARY	This presentation showed an interactive dashboard that has a developing transportation needs simulator to compare and evaluate different scenarios and the costs.
ACTIONS TAKEN	N/A

Meeting Adjourned: 3:03 PM



FUNDING APPROPRIATIONS STRATEGIES (FAST) COMMITTEE AGENDA

BOARD OF TRANSPORTATION MARCH 4, 2020

TIME: To begin immediately following the work session and last approximately 60 minutes.

LOCATION: EIC

TOPIC	PRESENTER	TIME
Call to Order Roll Call Declaration of Quorum Approval of February 5, 2020 Meeting Minutes Update	Tony Lathrop, Chair	5 Minutes
Cash/Finance Update	Evan Rodewald	10 Minutes
FY 2020 Revenue Update	Burt Tasaico	10 Minutes
2020 Debt Affordability Study	Evan Rodewald	10 Minutes
NC First Commission Update	Tony Lathrop, Chair Amna Cameron	25 Minutes
Adjourn	Tony Lathrop, Chair	



HIGHWAYS COMMITTEE MEETING MINUTES

DRAFT

DATE: 2/05/2020 **TIME:** 10:30 AM – 11:30 AM **LOCATION:** Room 150

MEETING CALLED BY	Chairman Cullie Tarleton
BOARD ATTENDEES	Chairman Cullie Tarleton, Jack Debnam, Grady Hunt, Lisa Mathis, Gus Tulloss, Dirk Cody, Michael Alford, Hugh Overholt.

AGENDA TOPICS

1. APPROVAL OF DECEMBER 2019 MINUTES	
DISCUSSION SUMMARY	Chairman Tarleton stated if there are no additions or corrections needed to the December 2019 minutes, he would accept a motion to approve.
ACTIONS TAKEN	Motion to approve the December minutes made by Member Cody, seconded by Member Overholt. The motion to approve the December minutes as written passed unanimously.
2. NCDOT LOGO AND TODS PROGRAM	
DISCUSSION SUMMARY	<p>Mr. Kevin Lacy, State Traffic Engineer, NCDOT Transportation Mobility and Safety, provided a presentation regarding the Department's Logo and TODS Program. Mr. Lacy provided details regarding the General Statutes that govern the program. Current state law requires that the program be revenue neutral. The Board of Transportation sets the fee to cover the initial costs of signs, sign installation, and maintenance and the costs of administering the program. The annual fee is \$300 per each mainline, ramp and trailblazer panel with the typical cost per interchange of \$1,200. The fees were last set in 2003. At the Board's direction, there have been two attempts to revise the law to allow the program to become a revenue generating program. The effort has been unsuccessful to date primarily due to a concern for small businesses. NCDOT's fees are less than other states who have privatized their program and those who are non-privatized. Future solutions may include separate pricing for small businesses.</p> <p>The Traffic Safety and Mobility Unit will provide the Highway Committee with a further detailed analysis of the Logo and TODS program and how other states</p>



HIGHWAYS COMMITTEE MEETING MINUTES

DRAFT

	<p>administer their programs. Upon review of this further information, the Highway Committee will determine if recommendations to the Full Board are needed to attempt to change the current law and fee structure.</p> <p>The Highway Committee will hear the additional information regarding the Logo and TODS Program at the April 2020 meeting.</p>
ACTIONS TAKEN	None
3. PROJECT SPOTLIGHT: I-440 WIDENING AND BLUE RIDGE GRADE SEPARATION	
DISCUSSION SUMMARY	<p>Mr. Joey Hopkins, Division Engineer for Division 5 and Mr. Boyd Tharrington, Division Construction Engineer for Division 5 provided a presentation regarding the I-440 Widening and the Blue Ridge Road Grade Separation Project in Wake County. The \$346 Million project was awarded to Lane Construction/HDR Design Build Team in October 2018, with work beginning in July 2019. The completion is scheduled for July 2023.</p> <p>As part of the project, I-440 will be widened from 4 to 6 lanes and the interchanges will be upgraded from the 1960s design standards when that section of I-440 was originally constructed. It will correct poor sight distance, narrow shoulders and medians, and replace 15 bridges that are considered obsolete or deficient. The design-build team was innovative by redesigning the interchange with Wade Avenue and significantly reducing the Right of Way impacts to NC State University, the University Club, and Meredith College. This project also includes providing a grade separation between Blue Ridge Road and Hillsborough Street. With a project of this size and the number of impacts to the surrounding area, it has been critical to coordinate closely with the stakeholders, holding monthly meetings, providing weekly traffic impact information and providing social media and website updates.</p>
ACTIONS TAKEN	None



HIGHWAYS COMMITTEE AGENDA

BOARD OF TRANSPORTATION MARCH 4, 2020

TIME: To begin immediately following the adjournment of the EDIR and FAST Committees.

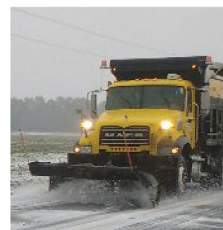
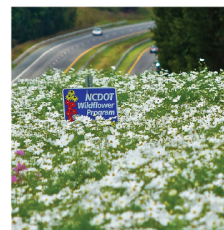
LOCATION: Room 150

TOPIC	PRESENTER	TIME
Call to Order Roll Call Declaration of Quorum Approval of February 5, 2020 Meeting Minutes	Cullie Tarleton, Chairman	
NCDOT Preparations for Autonomous Vehicles	Mr. Kevin Lacy, PE, CPM, State Traffic Engineer, NCDOT Transportation Mobility and Safety	
NCDOT Disposal of Residue Properties Program	Ms. Heather Fulghum, Right of Way Branch Manager, NCDOT Right of Way Unit	
NCDOT Partnership with Emergency Management – Storm Event Preparation, Response, and Recovery	Mr. Matt Lauffer, PE, NCDOT Hydraulics Unit, Assistant State Hydraulics Engineer, Design and Mr. Colin Mellor, NCDOT Environmental Policy Unit, Eastern Regional Team Lead Divisions 1-6,8	
Other Discussion	Cullie Tarleton	
Adjourn	All	



NORTH CAROLINA

Department of Transportation



Autonomous Vehicles Update - Guidance Standards

Kevin Lacy, PE, State Traffic Engineer

March 2020

Autonomous Self Driving



<https://www.ll.mit.edu/publications/imagespublications/urbanchallenge1.jpg>



<http://www.govtech.com/fs/Autonomous-Cars-Could-Increase-Drivership-11-Percent-Researchers-Estimate.html>



http://si.wsj.net/public/resources/images/BN-MC635_0114dr_P_20160114143938.jpg



<http://www.insurancejournal.com/news/national/2015/04/24/365573.htm>



<https://www.engadget.com/2018/07/17/roborace-is-still-pursuing-its-driverless-race-car-dream/>

Actual Self Driving in Pittsburg



Like most developers, the technology is developing the machine driver not redesigning the vehicle.



Actual Self Driving in Las Vegas

APTIV is working with Lyft in the Las Vegas Strip area and the Airport. Their fleet of self driving vehicles have over 1.5 Million Miles of driving experience in this highly utilized corridor.

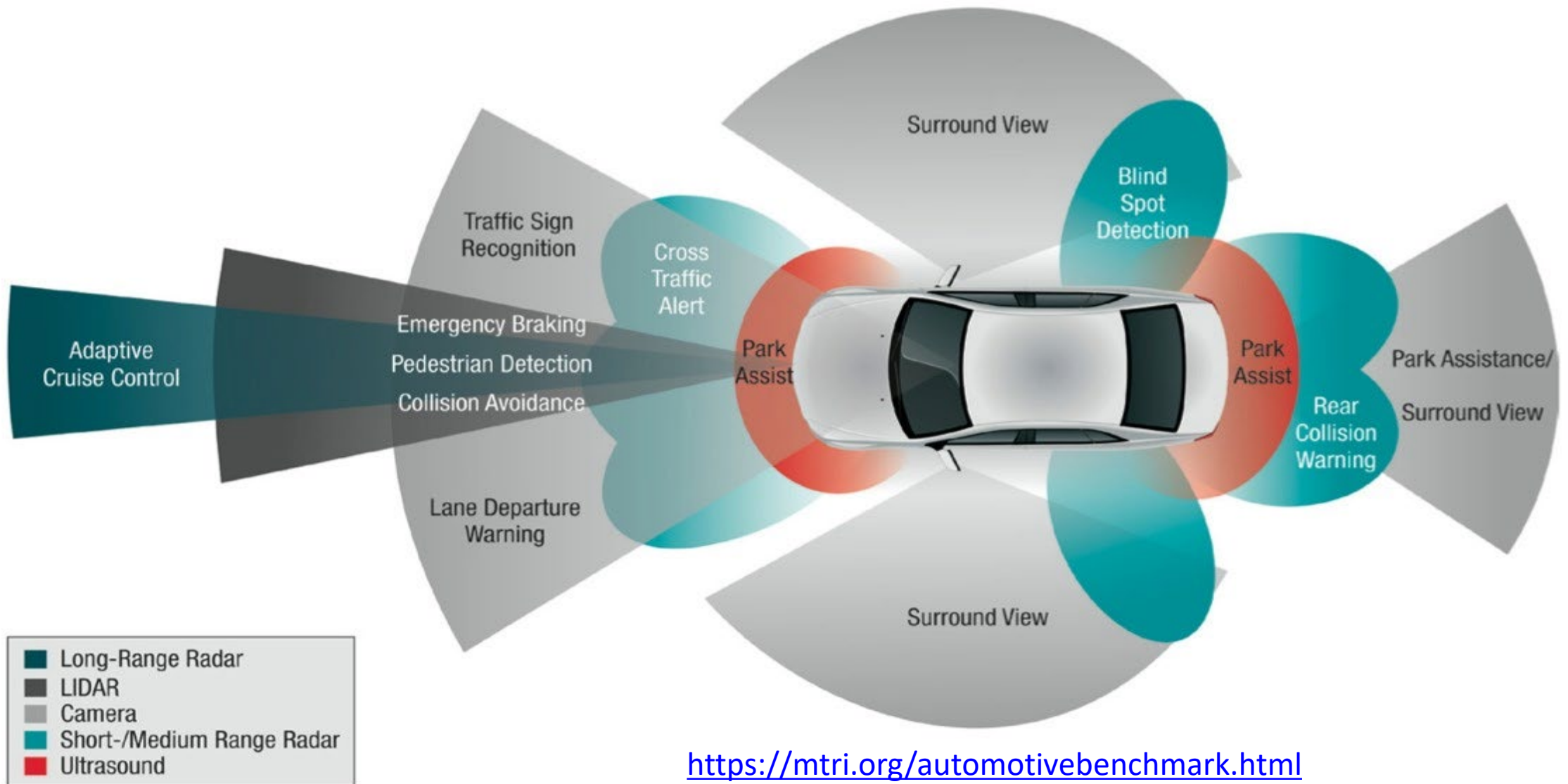
The single driver (Software) has more experience driving in this area than most drivers will have in a **lifetime**



Sensor Technology

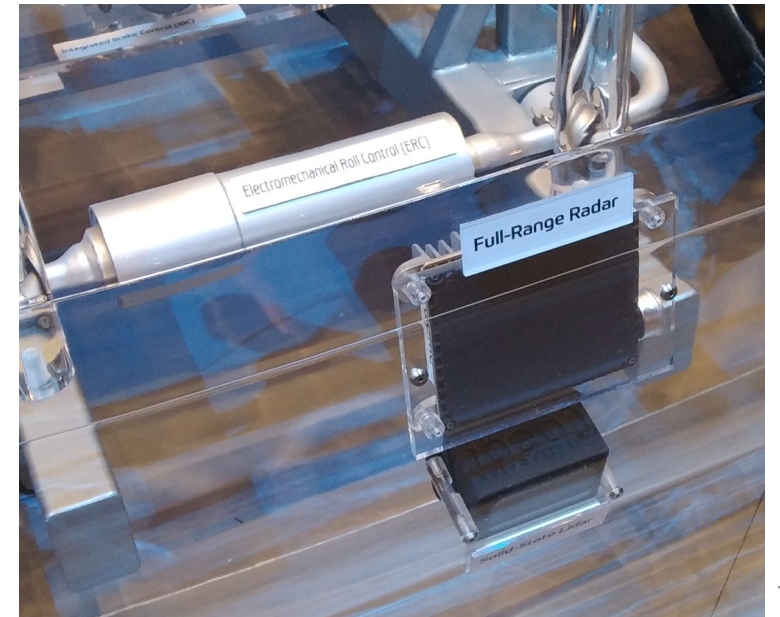
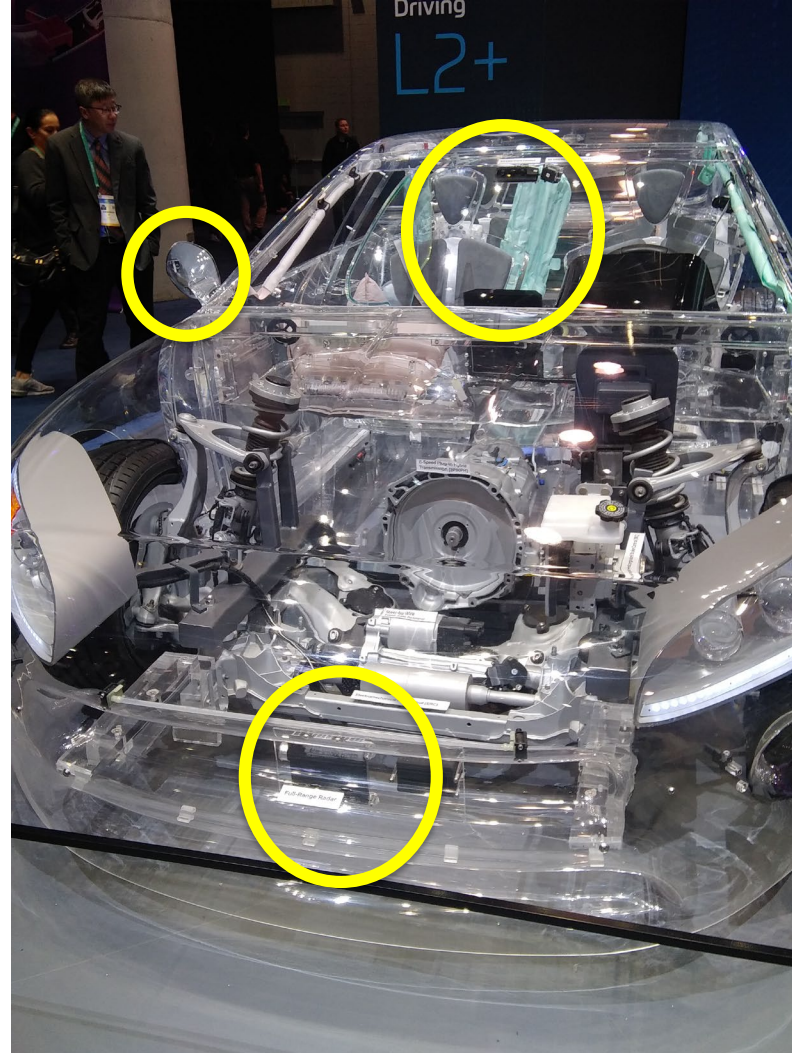
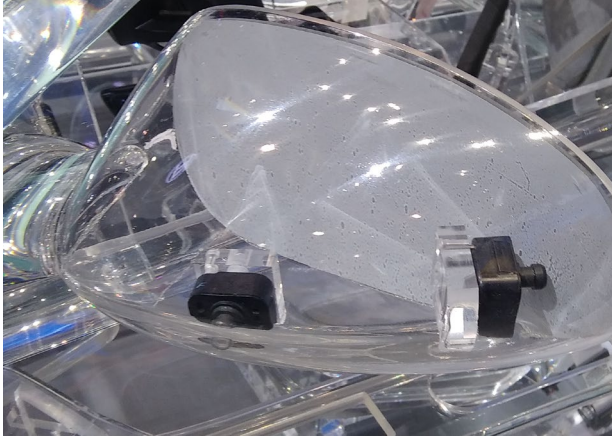


Sensor Technology



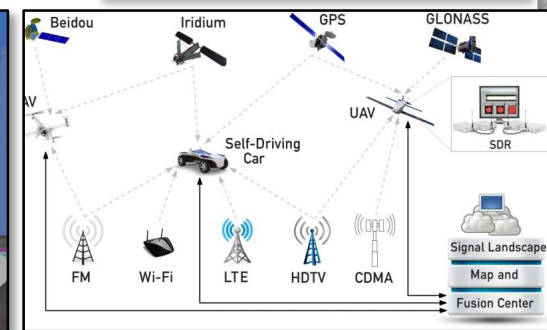
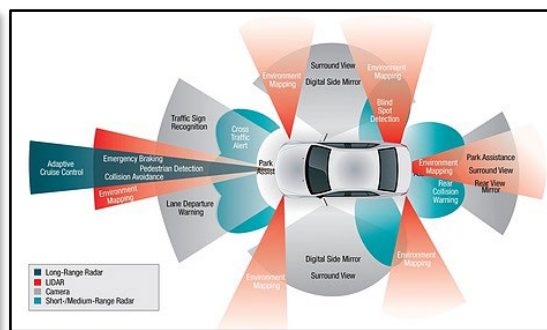
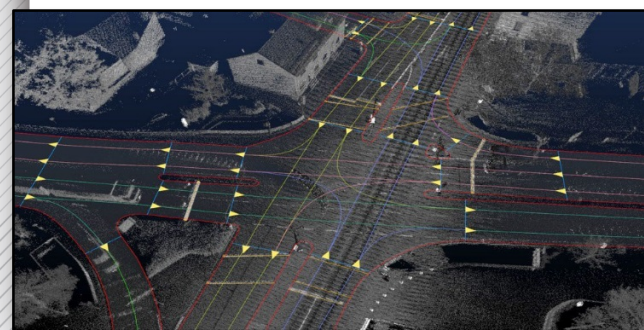
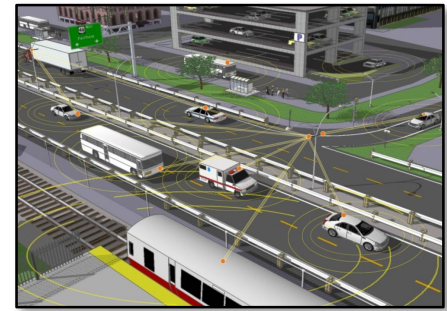
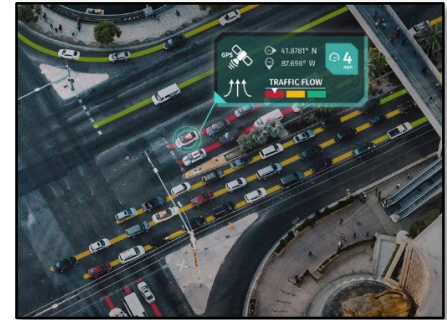
<https://mtri.org/automotivebenchmark.html>

Sensor Technology



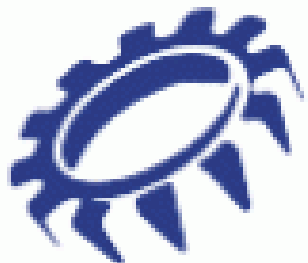
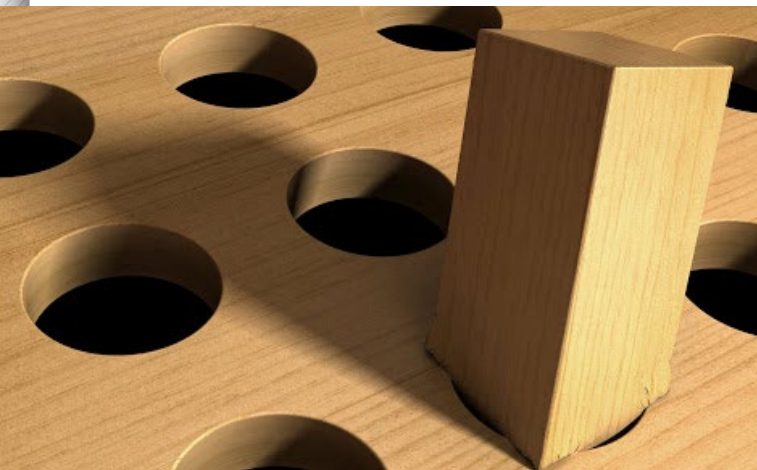
Navigation Technology

- ✓ High Resolution Mapping
- ✓ Machine Vision: LIDAR, cameras, sensors, etc.
 - GPS and other signals
- ✓ Road Fingerprinting
 - Crowd Sourcing
- ✓ Connected AV Infrastructure
- ✓ Technology Affecting Maintenance of Roads





International
Organization for
Standardization



Society of
Automotive
Engineers.

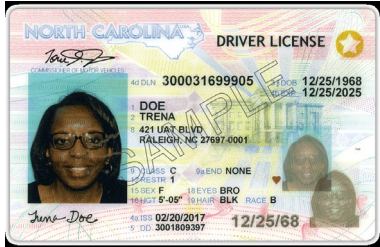


What are the Standards?

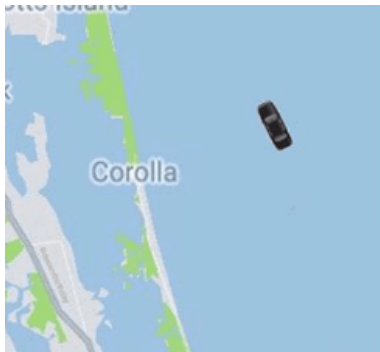




There are the traditional vehicular standards, but some of those are not necessary.



There are Driver Standards, but we expect the machine to drive better.



Even with standard GPS navigation some drivers get lost, miss turns, take the wrong turn, or ...

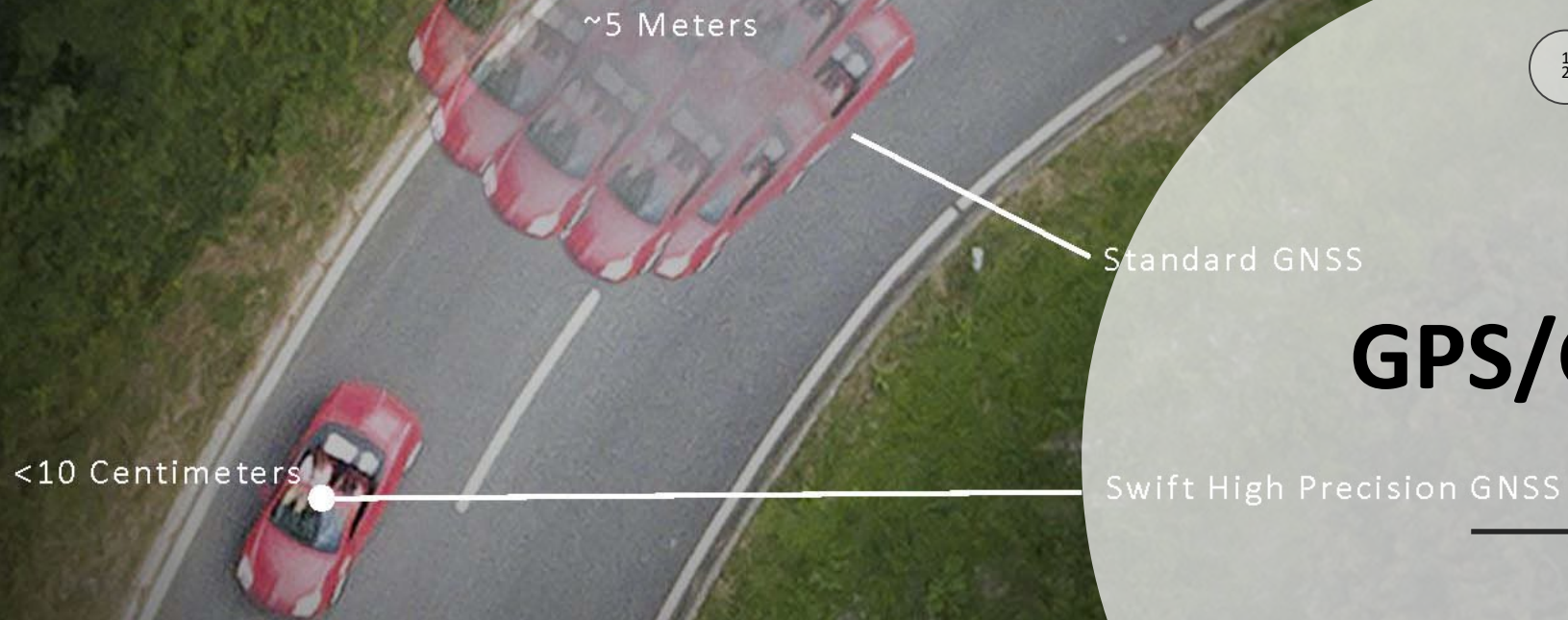
Self Driving Navigation

While there is not a Standard:

- HOW To,
- Equipment package
- Localized positioning

The method(s) that are being used have standards and are continuing to improve

HIGH PRECISION LOCALIZATION



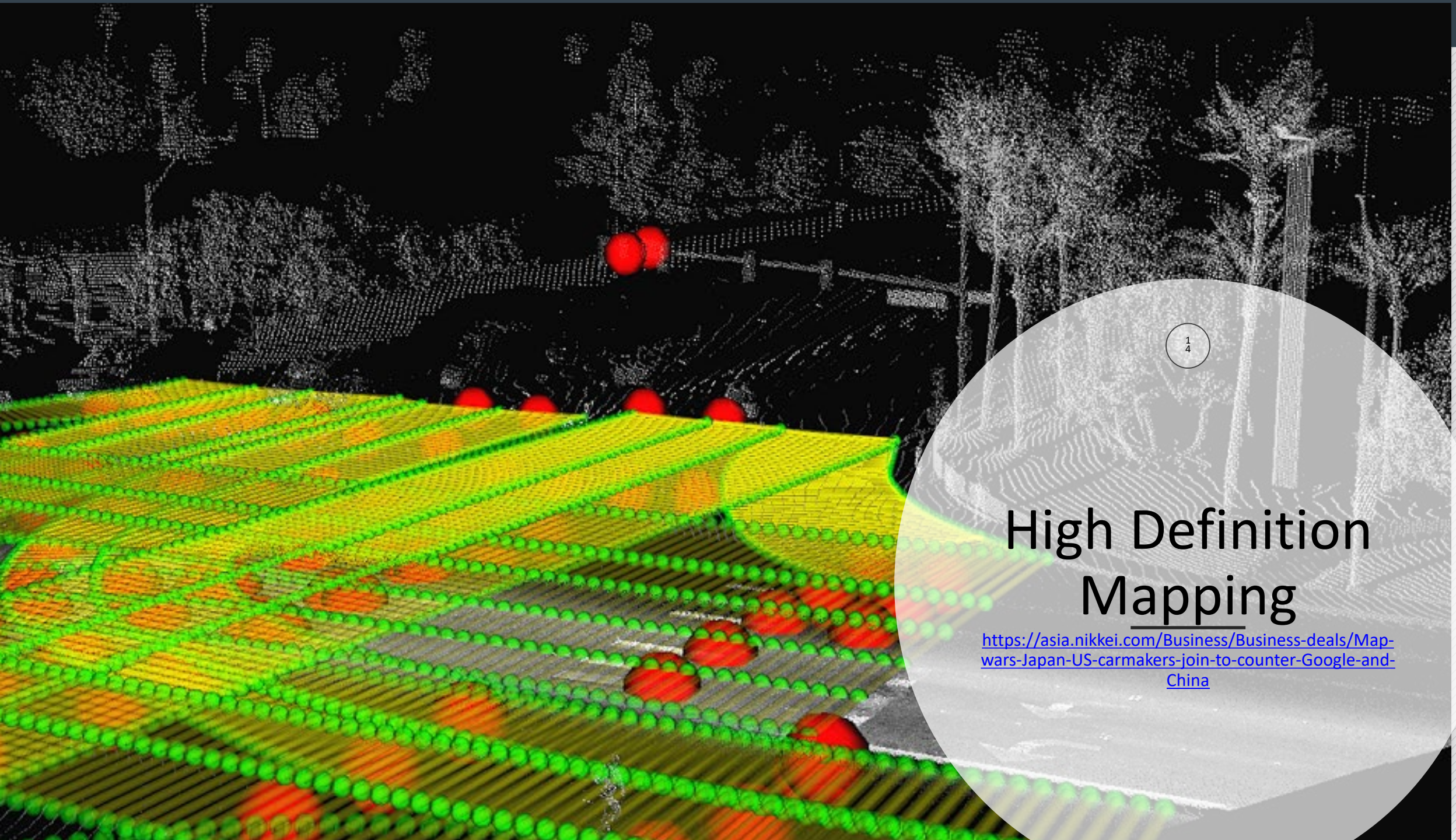
GPS Accuracy

(non-military and non-surveying)

Year 2000 after selective availability lifted accurate to **five meters (16.4 feet)**.

New Receivers (2018 and after) using L5 Band accurate within 30 cm (11.8 inches)

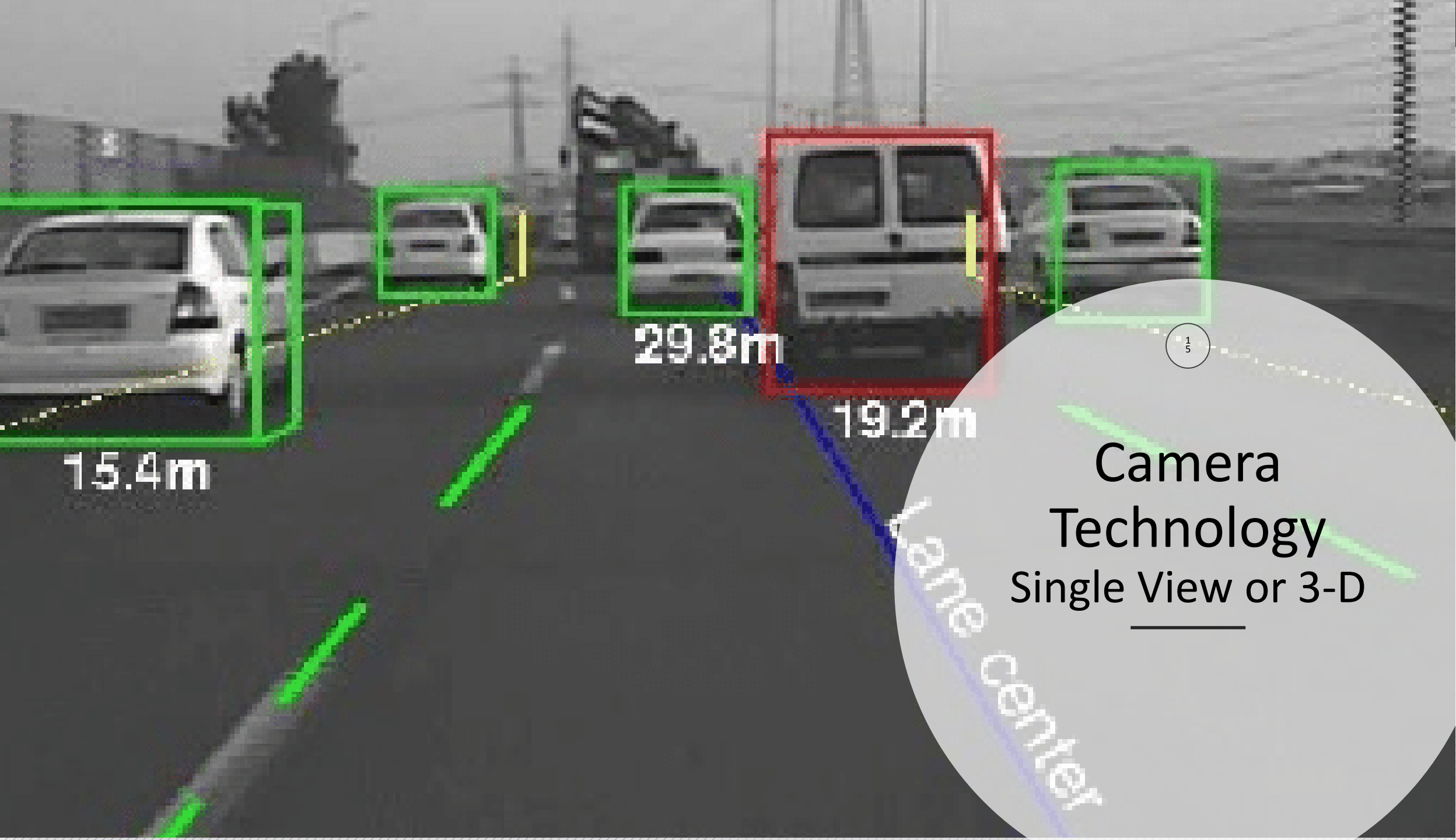
There is a company in San Francisco that advertising < 10 cm (less than 4 inches)



1
4

High Definition Mapping

<https://asia.nikkei.com/Business/Business-deals/Mapwars-Japan-US-carmakers-join-to-counter-Google-and-China>



15.4m

29.8m

19.2m

Camera
Technology
Single View or 3-D

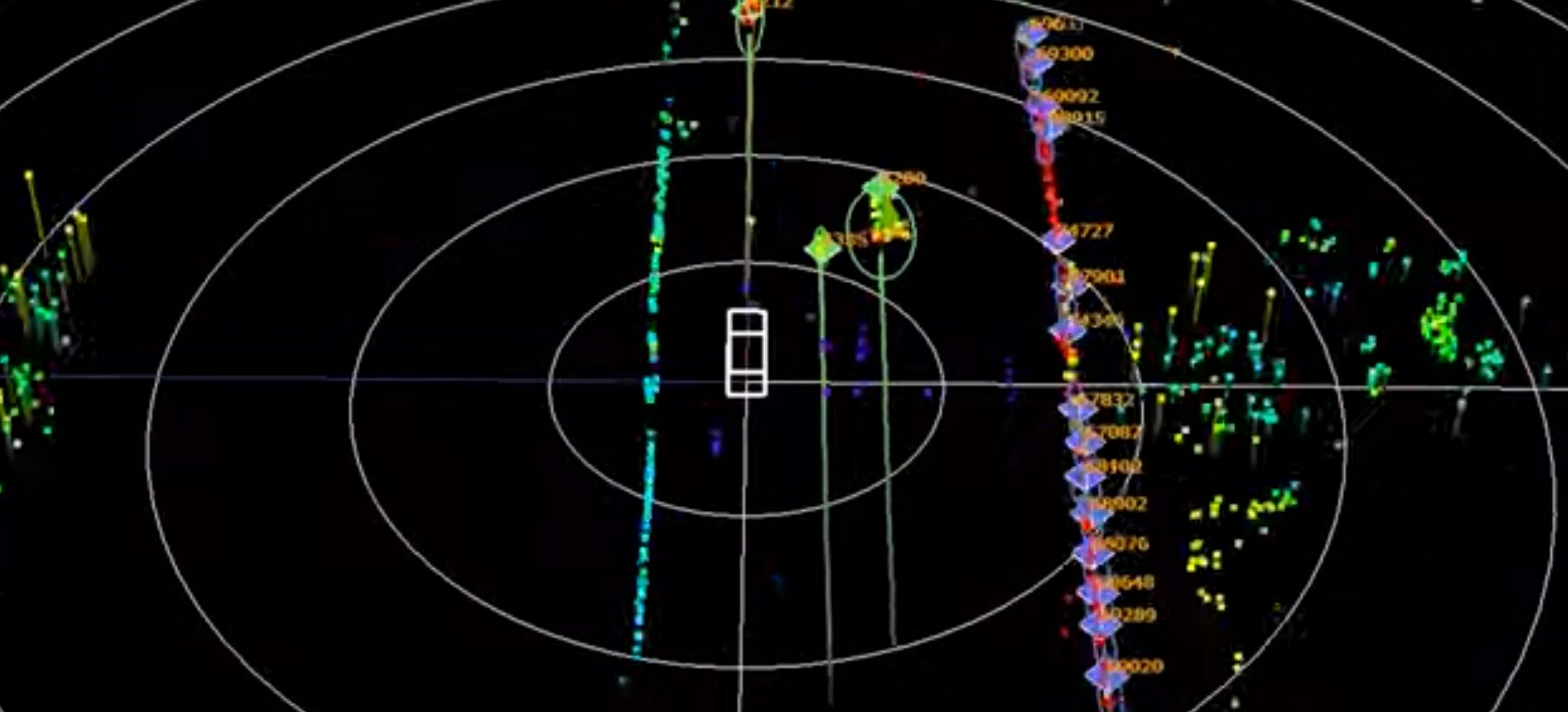
Cameras and Video Analytics

Consider the advancement of camera technology. Does anyone even remember pixel count anymore?

Video Analytics and Artificial Intelligence is advancing rapidly, to decipherer what it sees, and the rapid pace it can track multiple objects.

Night Vision?

The machine still must be taught what it is seeing and what to do.



Radar Technology



Radar Technology



19

LIDAR Technology

LUMINAR

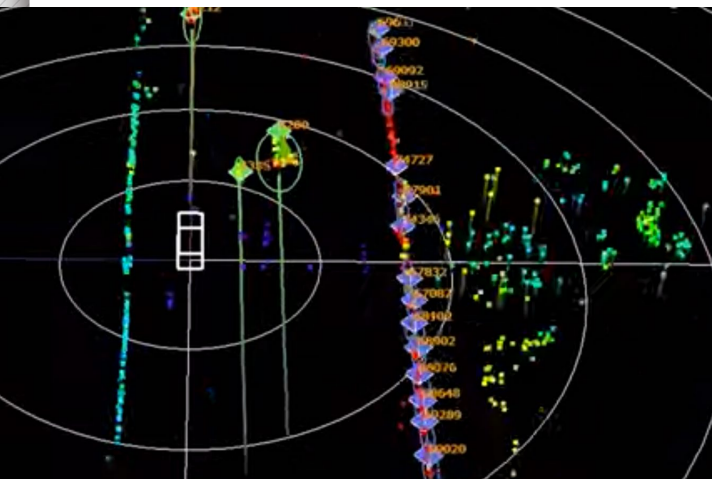
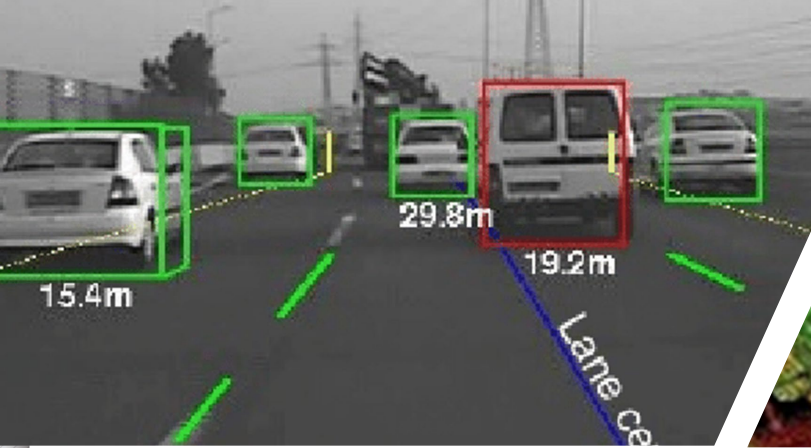
LIDAR

Very high cost, but research and market forces are working here too.

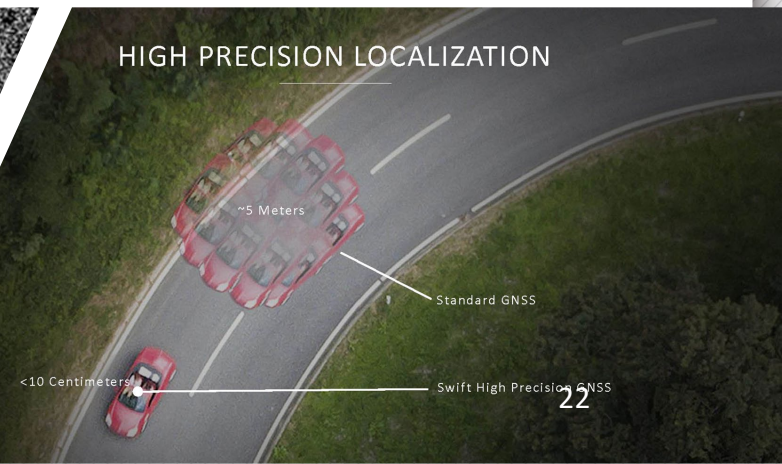
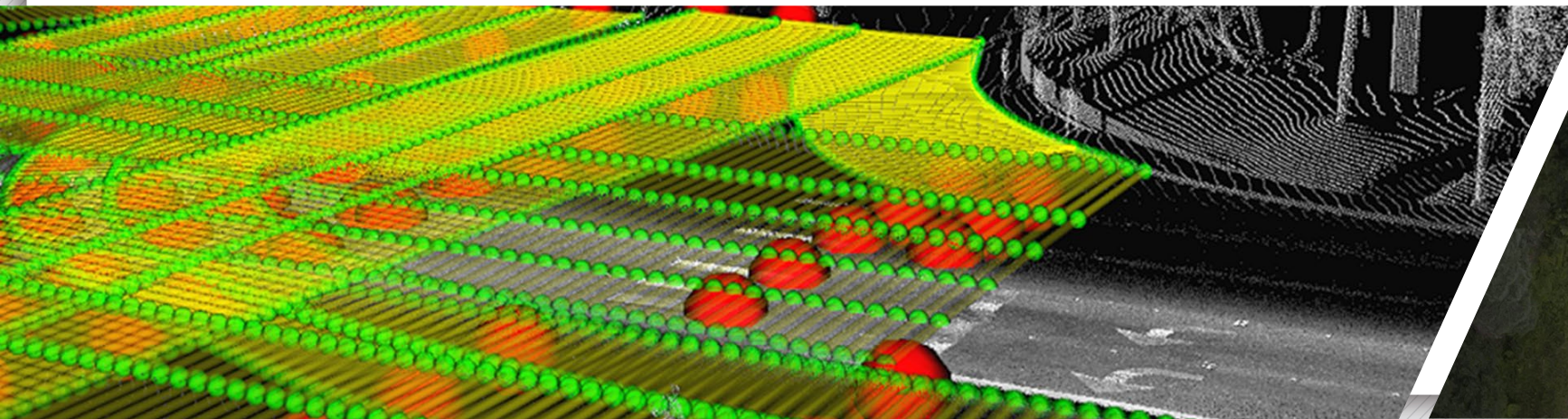
In 2017 Waymo engineers were able to cut to cost of LiDAR 90% from \$75,000 to \$7,500.

In 2019 A company announced they have a market ready LiDAR for \$500

What is Happening In the Real World?



Most are using all the technologies, with redundancies



This approach allows the best data for the different conditions. Some sensors work better in some natural conditions than others.

Engineers are figuring how to manage the multiple streams of data, process it, decide what to do, and then do it.

Makes us appreciate the actual difficulty of the driving task.



"MR. SMITH, CARS USED TO HAVE STEERING WHEELS, RIGHT?!"

NC Driver License Privilege

- 16 ½ with a provision license for 6 mo. without convictions
- Or
- 18 and older passing written test and skills test

How would the machine match up today?

In the operational domain of the developer -- better than most humans (millions of miles driven)

Outside the operational domain – better than the typical 20-year old, but not ready, probably could pass the typical skill test.

Machine learning takes many more hours of training, and our system is just not uniform from the digital sense.

For More Information Contact:

Kevin Lacy, PE

ijklacy1@ncdot.gov

<http://www.ncav.org/>



NORTH CAROLINA
Department of Transportation



NORTH CAROLINA Department of Transportation



Board of Transportation Highway Committee: Flood Preparation, Response and Recovery Tools

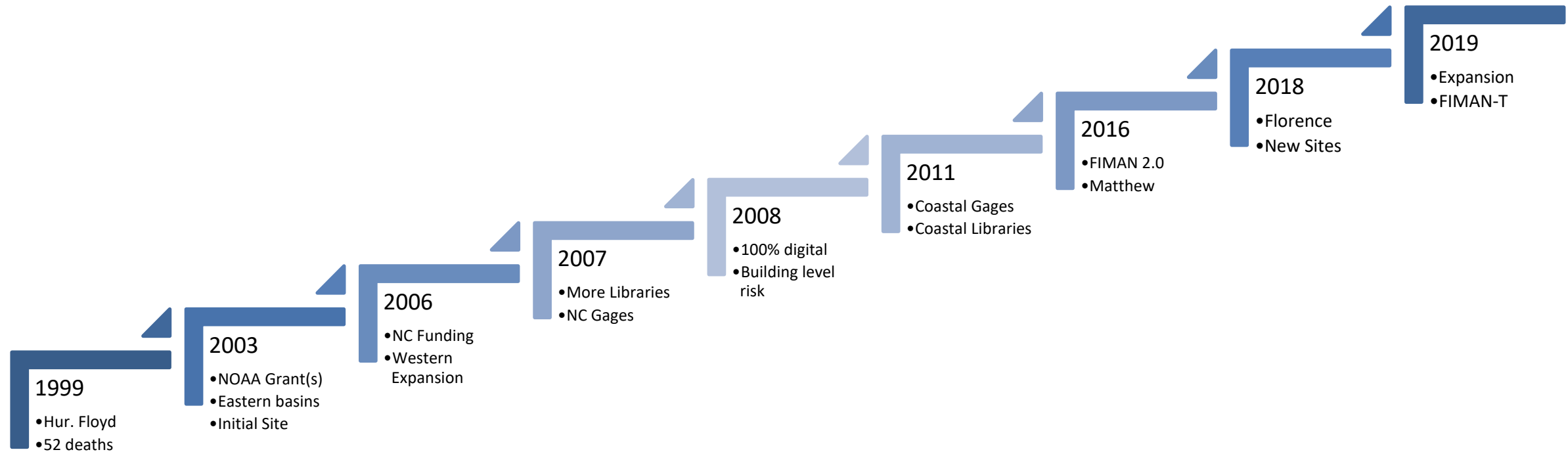
Matthew (Matt) Lauffer
Hydraulics Unit
Technical Services

March 4, 2020

Agenda

- Partnership with Emergency Management
- FIMAN-T
- BridgeWatch
- Stream Gages
- Next Steps

NC Flood Warning Program Timeline



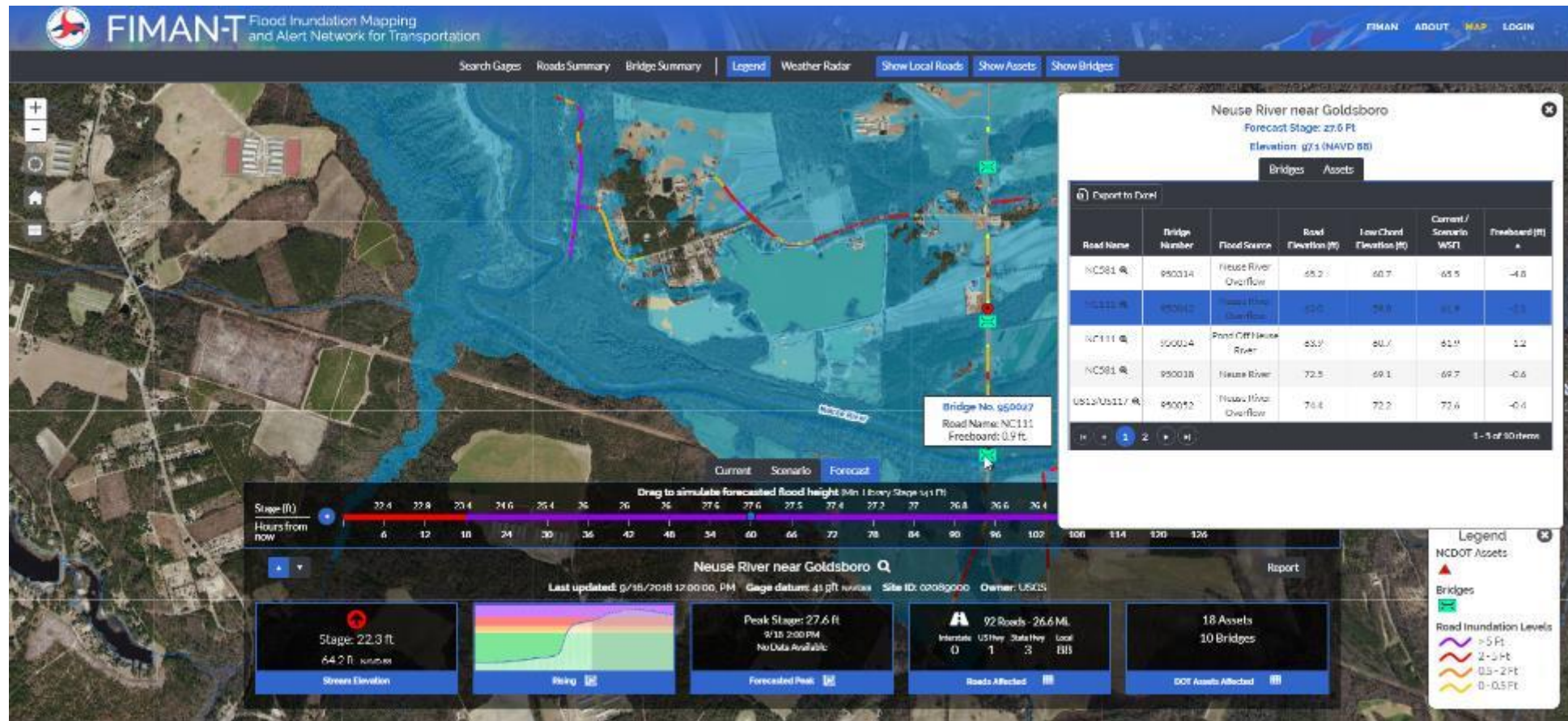
+



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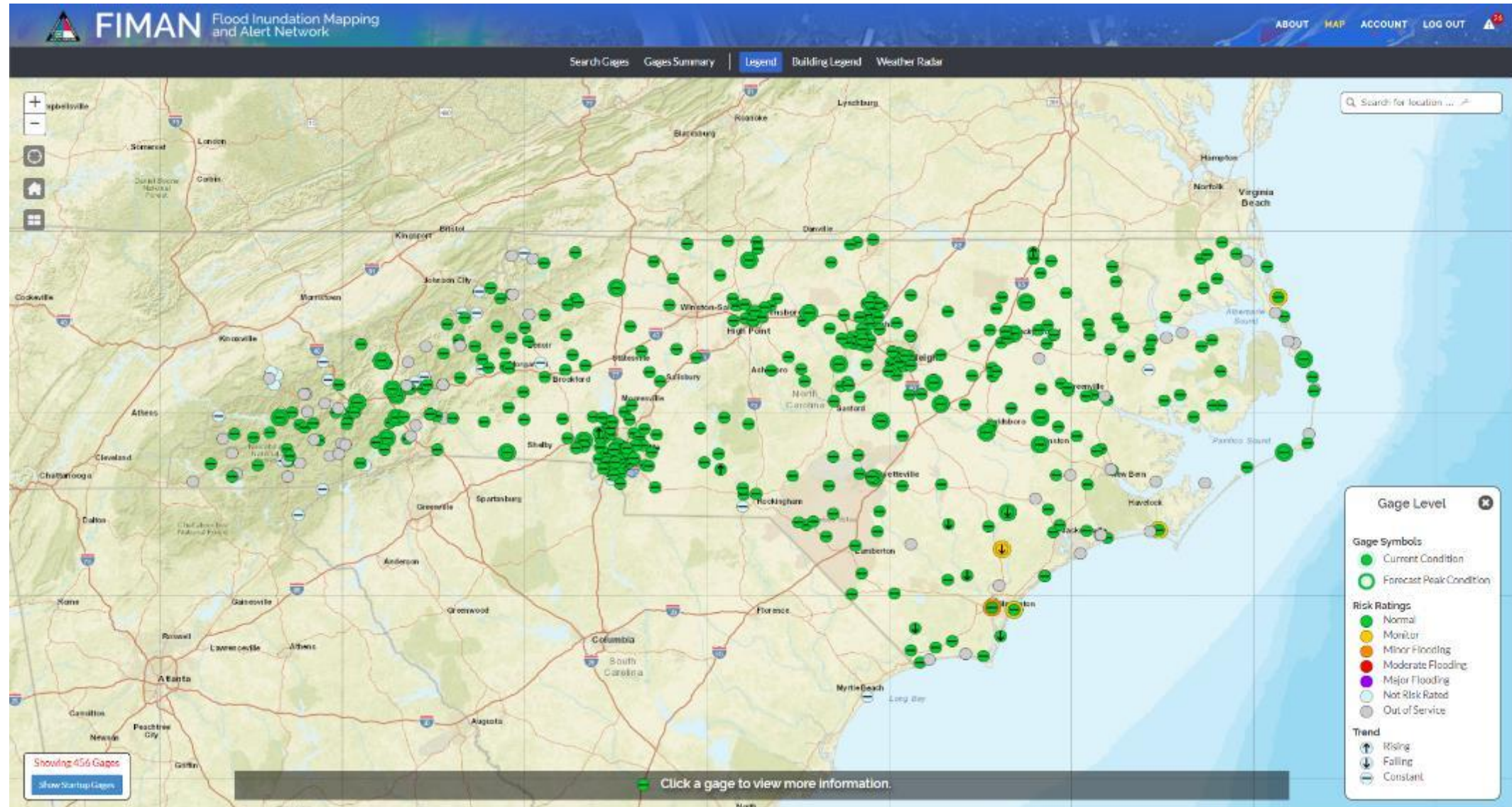


Flood Resilient

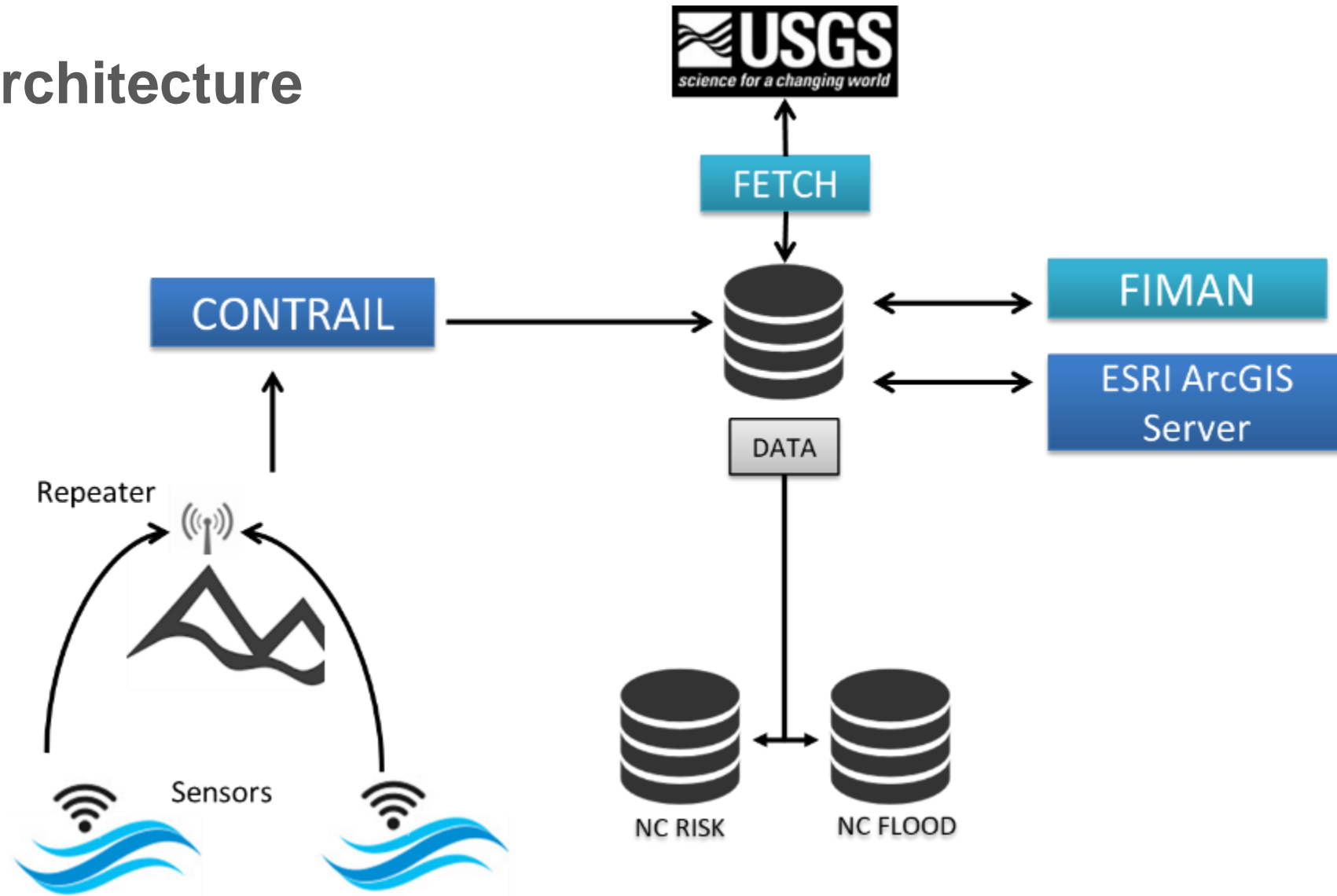


FIMAN-T

A NEW TOOL FOR NCDOT'S MANAGEMENT AND RESPONSE TO FLOOD IMPACTS TO TRANSPORTATION ASSETS



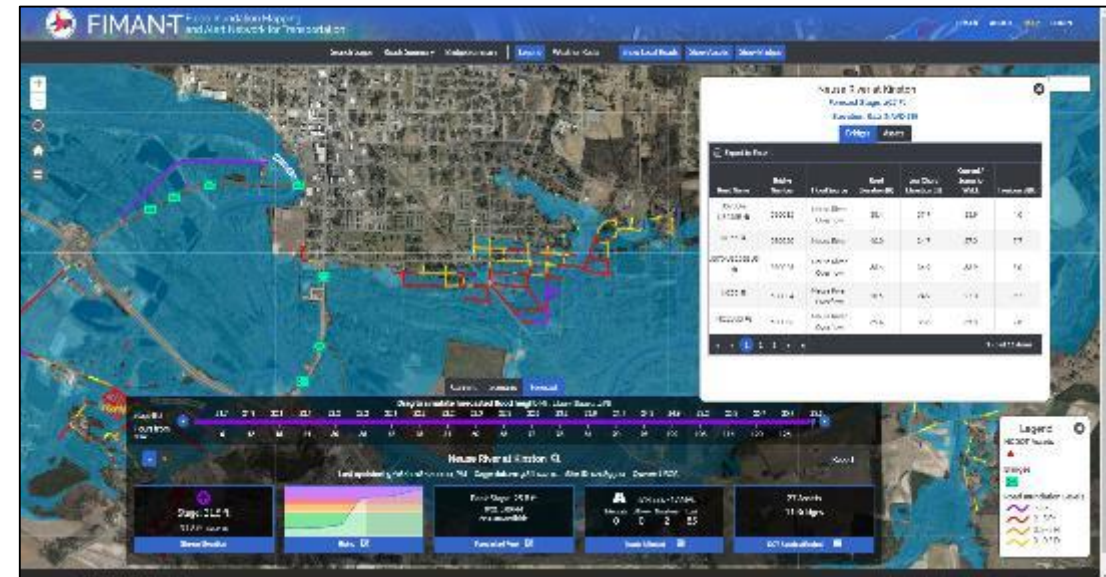
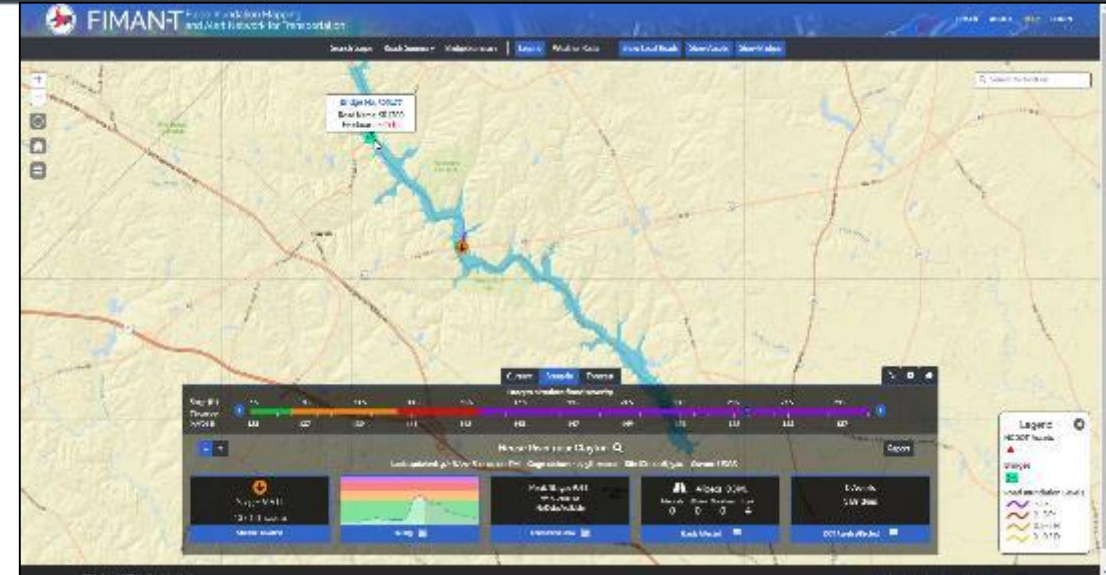
System Architecture



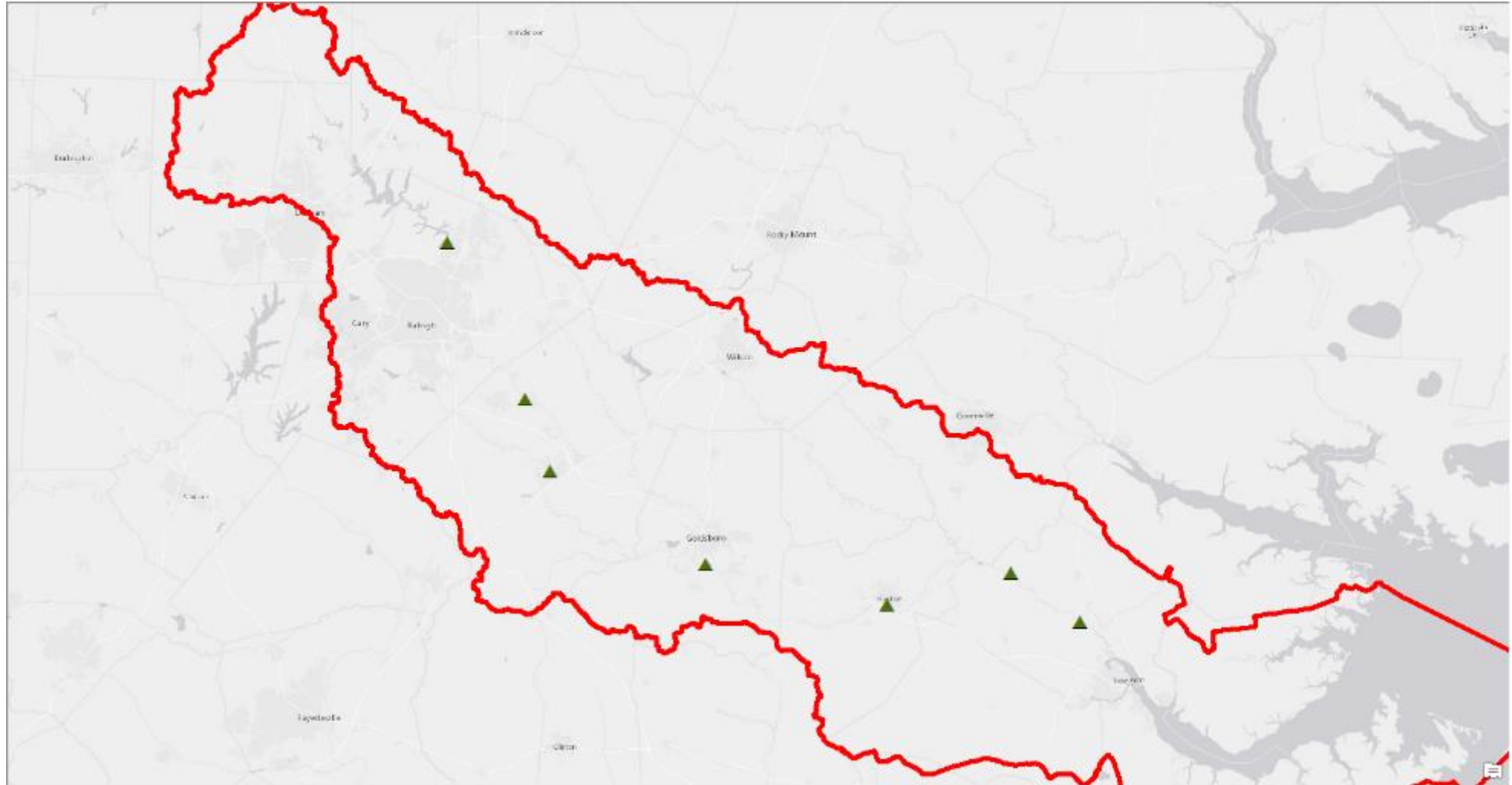


FIMAN T Objectives:

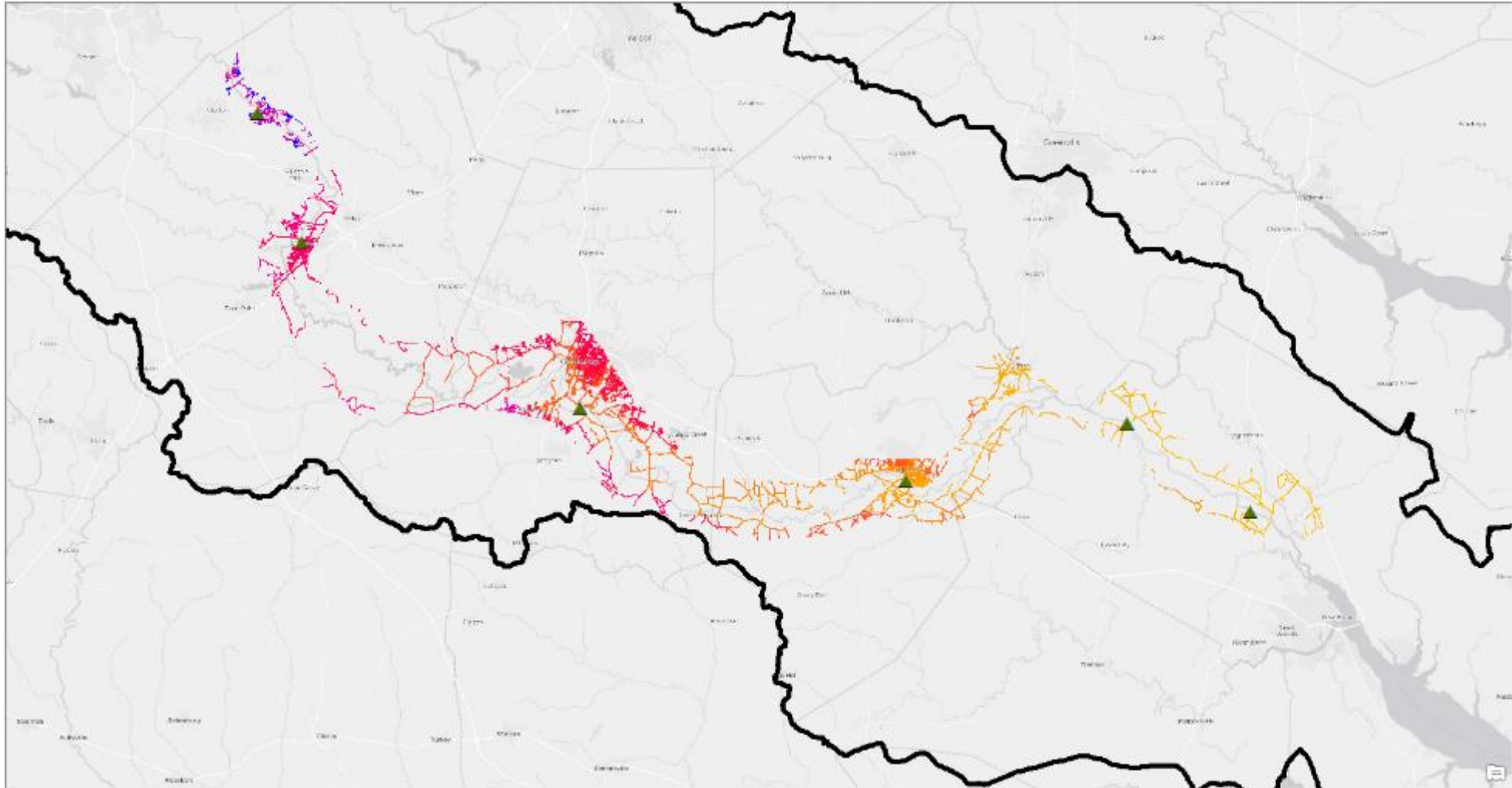
- **Leverage Data**
 - 3D QL1/2 LIDAR Roadway Data
 - FIMAN Infrastructure
 - NCDOT Bridge Information Databases
 - Existing Flood Inundation Modeling and Mapping
 - NCDOT Asset Location
- **Software Goals**
 - FIMAN-T Enhancements
 - Isolated from FIMAN Production
 - Visualization Options for roads, bridges, assets
 - New Reporting Tools for EOC
- **2019 Season Pilot Study**
 - Neuse River Corridor (Clayton to New Bern)
 - Expanded Inundation Libraries
 - FIMAN-T Functionality
 - Beta = Development Server – not open to public



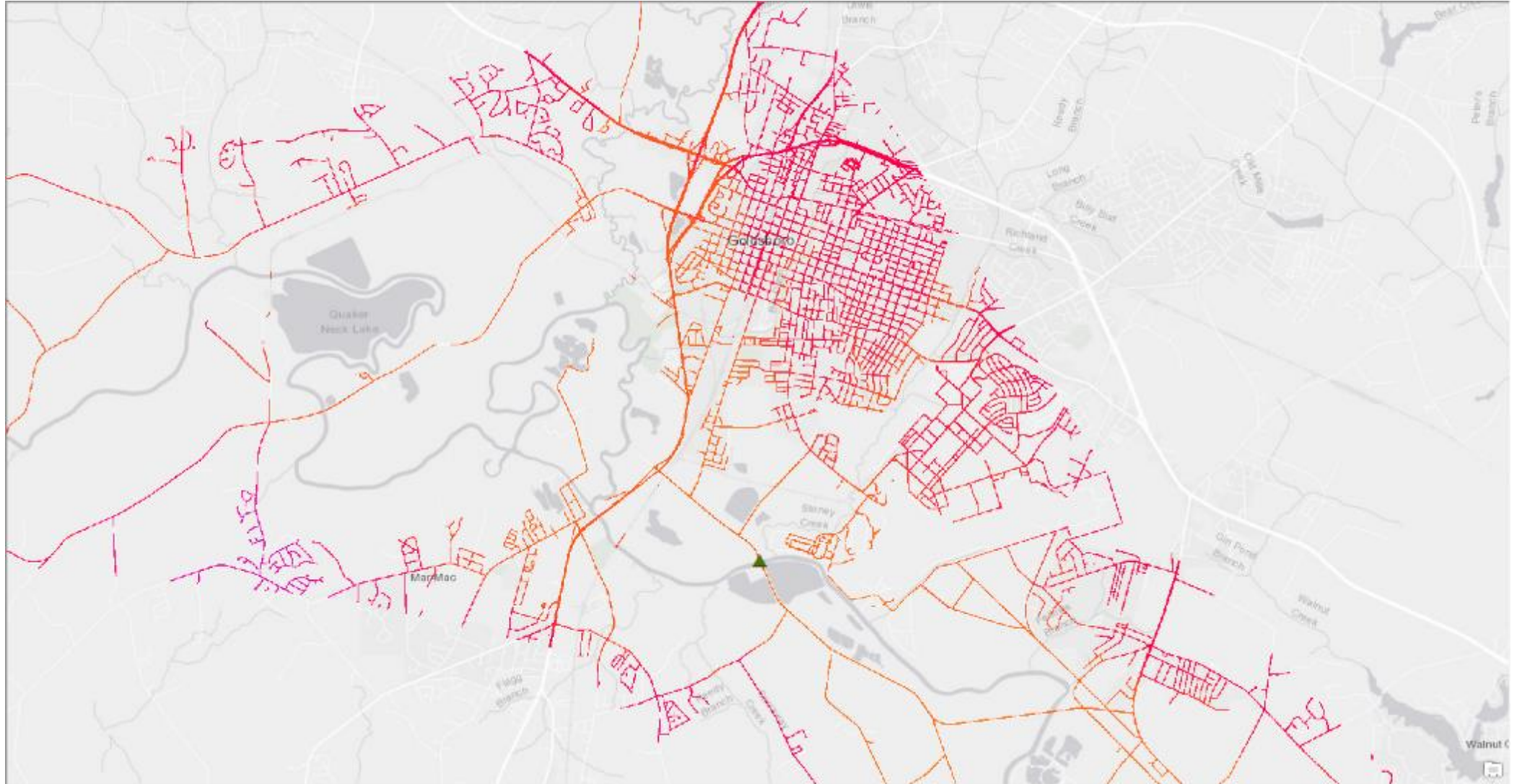
Lidar Derived 3D Road Elevation Grids



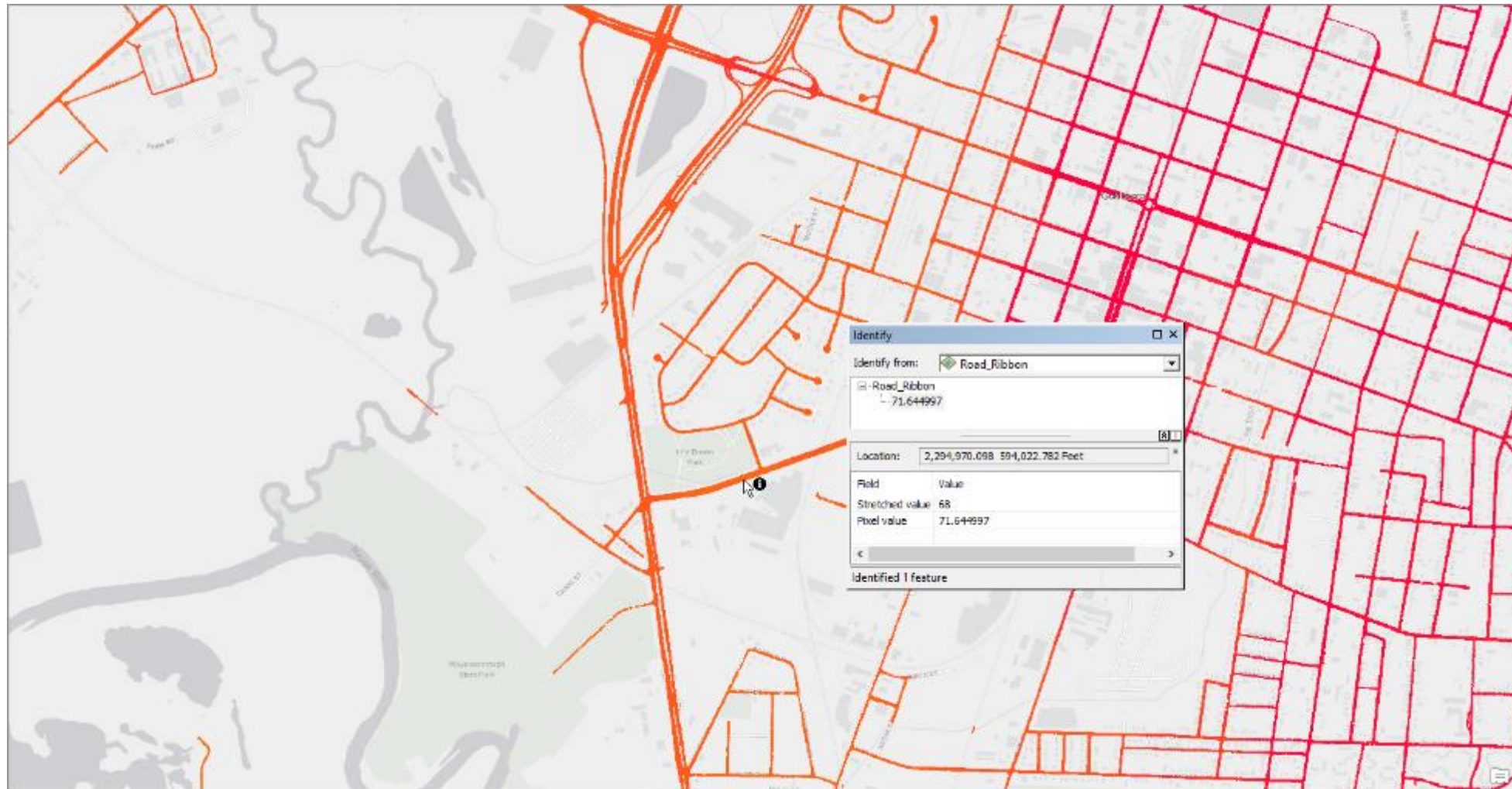
Lidar Derived 3D Road Elevation Grids



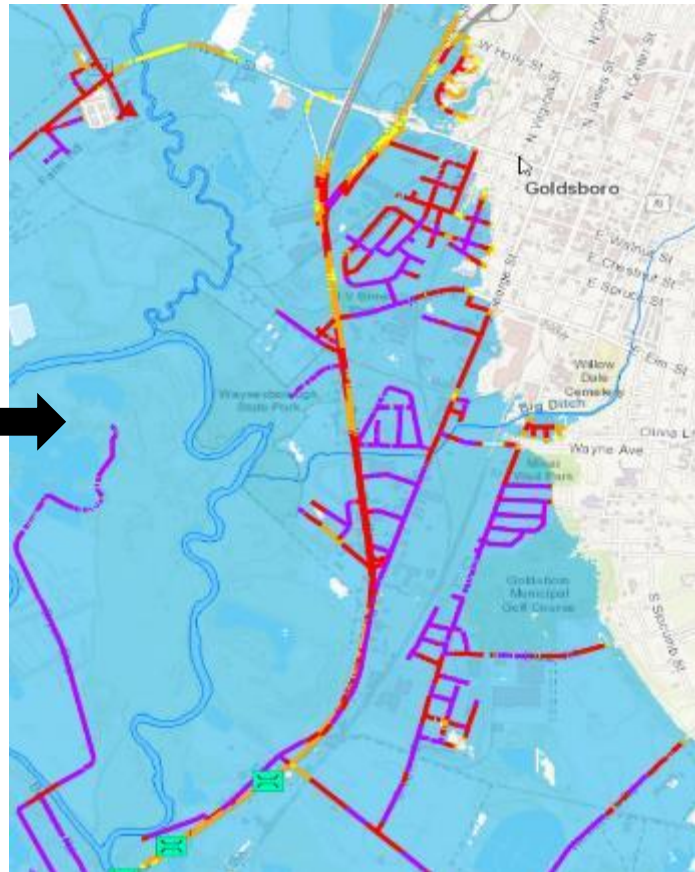
Lidar Derived 3D Road Elevation Grids



Lidar Derived 3D Road Elevation Grids



Raster to Polyline



Why polylines?

Conflate LRS polyline data with raster for utilization of attributes such as:

Road Name

Road Type

NCDOT Class

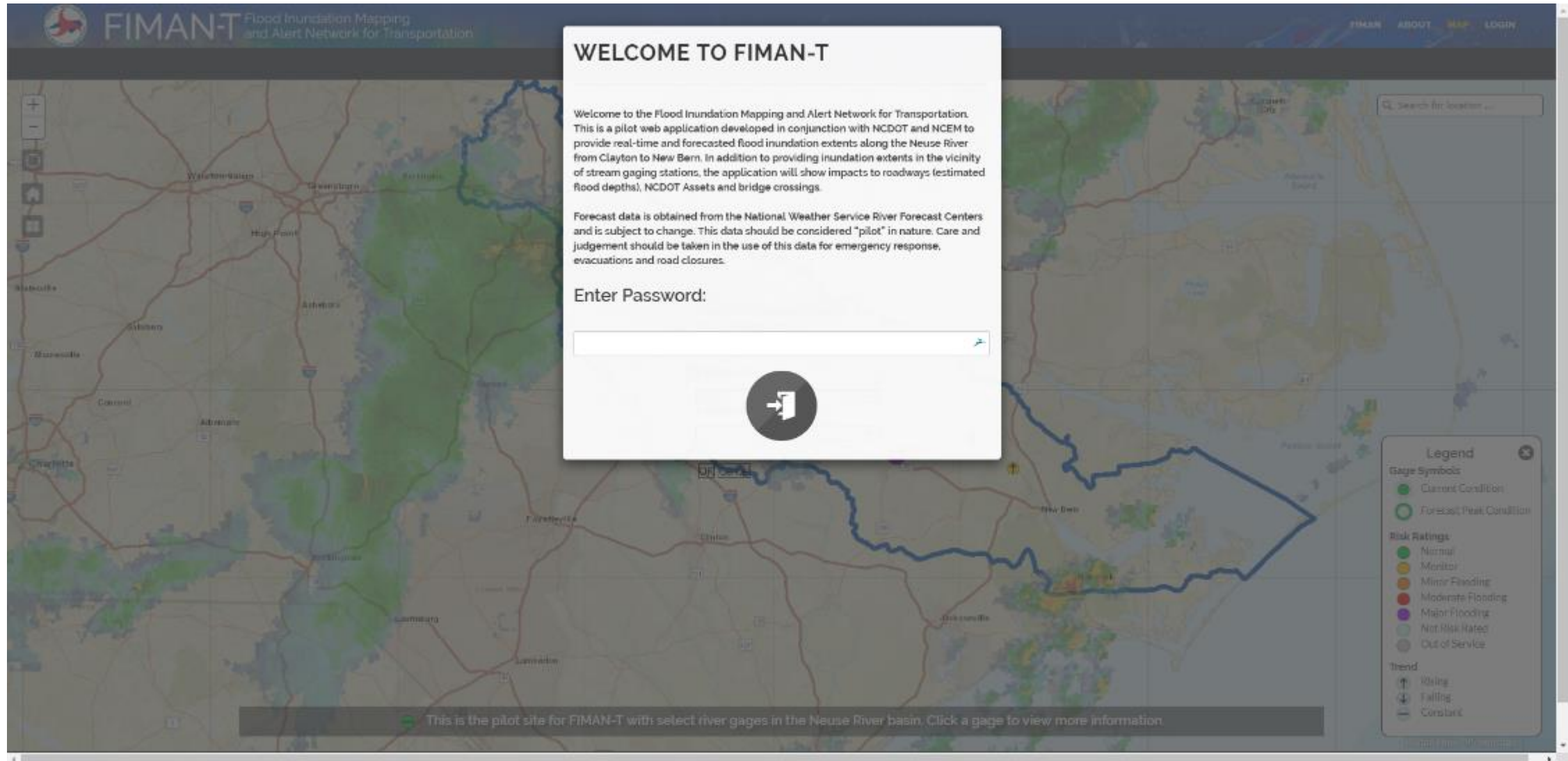
AADT

Smaller file sizes

Measurable length

Ability to query and search

FIMAN-T Login Page



The screenshot shows the FIMAN-T web application interface. At the top, the logo reads "FIMAN-T Flood Inundation Mapping and Alert Network for Transportation". A navigation bar on the right contains links for "FIMAN", "ABOUT", "MAP", and "LOGIN". The main content area is a map of the Neuse River basin, showing various locations and flood risk zones. A central white modal box titled "WELCOME TO FIMAN-T" contains the following text:

Welcome to the Flood Inundation Mapping and Alert Network for Transportation. This is a pilot web application developed in conjunction with NCDOT and NCEM to provide real-time and forecasted flood inundation extents along the Neuse River from Clayton to New Bern. In addition to providing inundation extents in the vicinity of stream gaging stations, the application will show impacts to roadways (estimated flood depths), NCDOT Assets and bridge crossings.

Forecast data is obtained from the National Weather Service River Forecast Centers and is subject to change. This data should be considered "pilot" in nature. Care and judgement should be taken in the use of this data for emergency response, evacuations and road closures.

Enter Password:

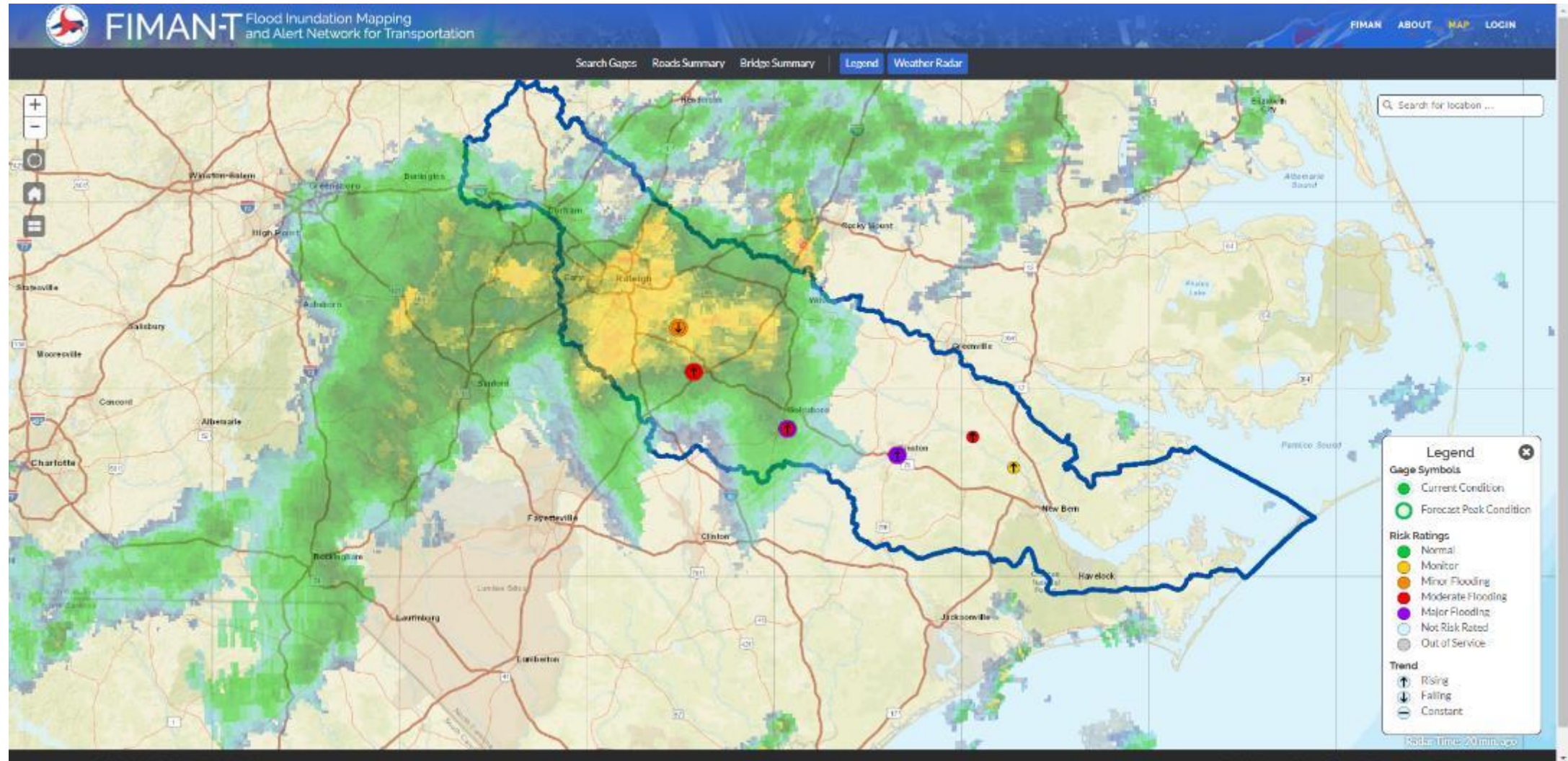
Below the password field is a circular button with a right-pointing arrow. At the bottom of the modal, a small note states: "This is the pilot site for FIMAN-T with select river gages in the Neuse River basin. Click a gage to view more information."

On the right side of the map, there is a "Legend" panel with the following sections:

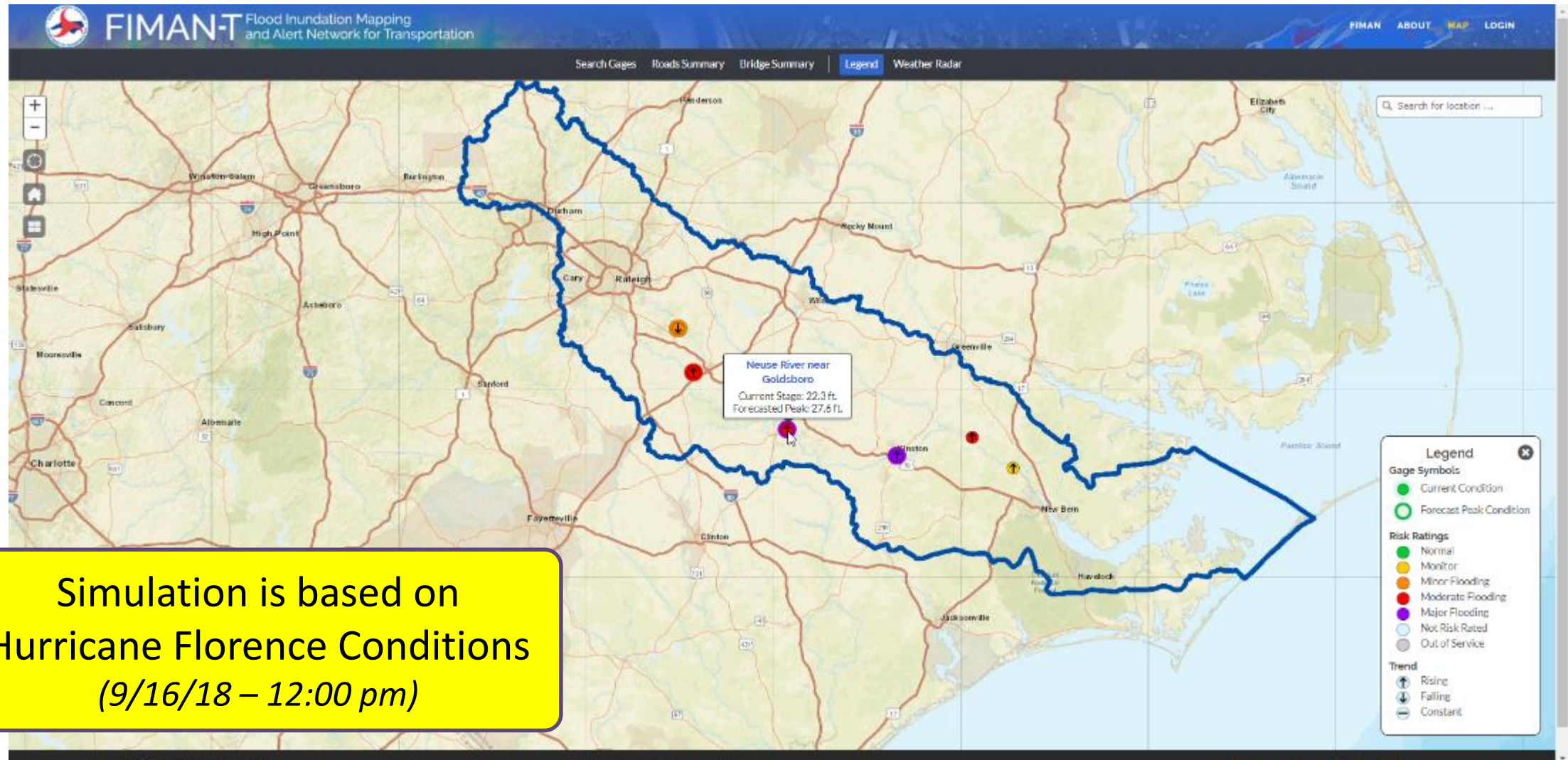
- Gage Symbols:**
 - Current Condition (green circle)
 - Forecast Peak Condition (blue circle)
- Risk Ratings:**
 - Normal (green circle)
 - Monitor (yellow circle)
 - Minor Flooding (orange circle)
 - Moderate Flooding (red circle)
 - Major Flooding (purple circle)
 - Not Risk Rated (grey circle)
 - Out of Service (grey circle)
- Trend:**
 - Rising (upward arrow)
 - Falling (downward arrow)
 - Constant (horizontal line)

A search bar at the top right of the map area is labeled "Search for location".

FIMAN-T: Pilot Area Home Screen

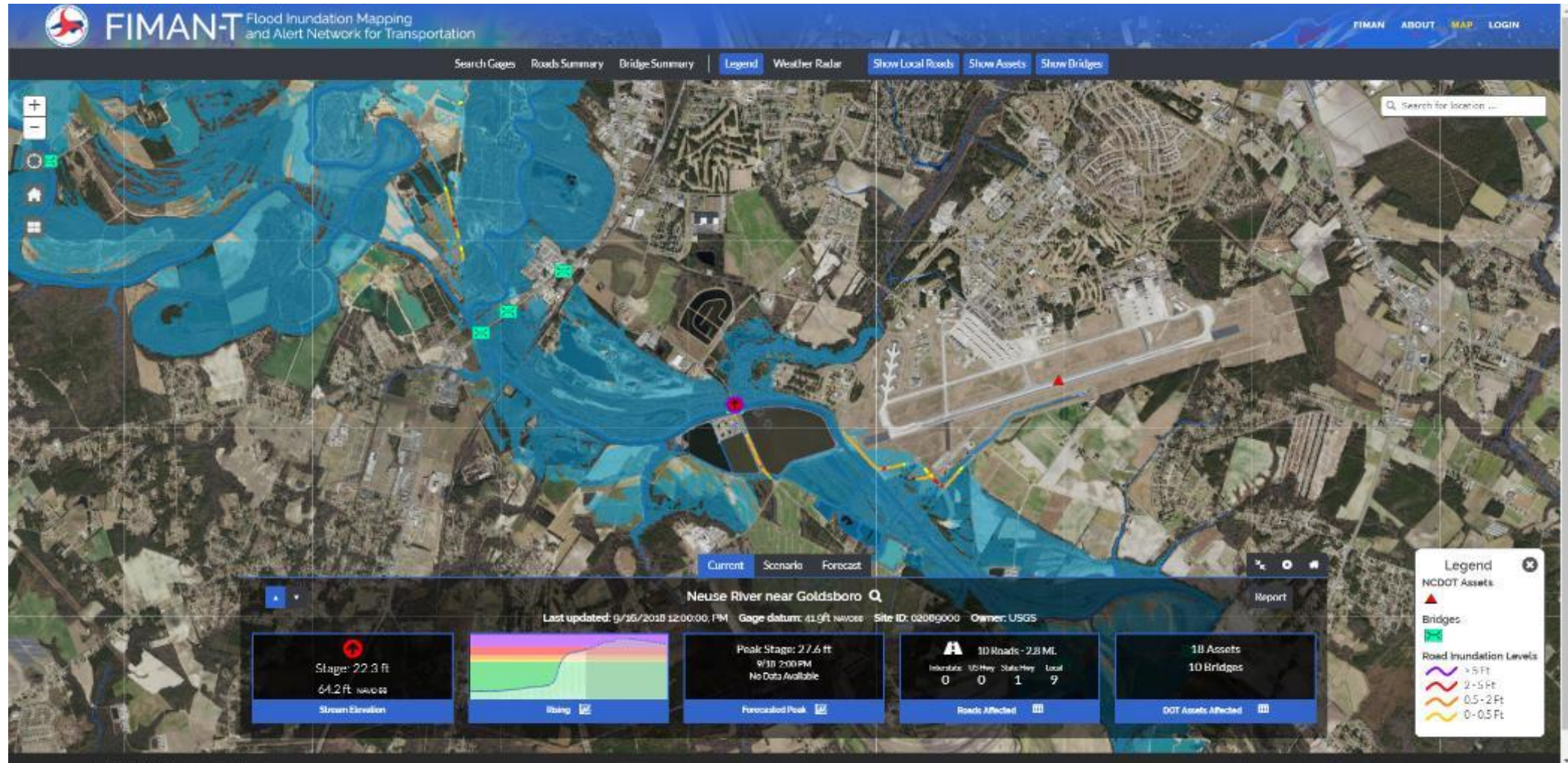


FIMAN-T: Pilot Area Home Screen

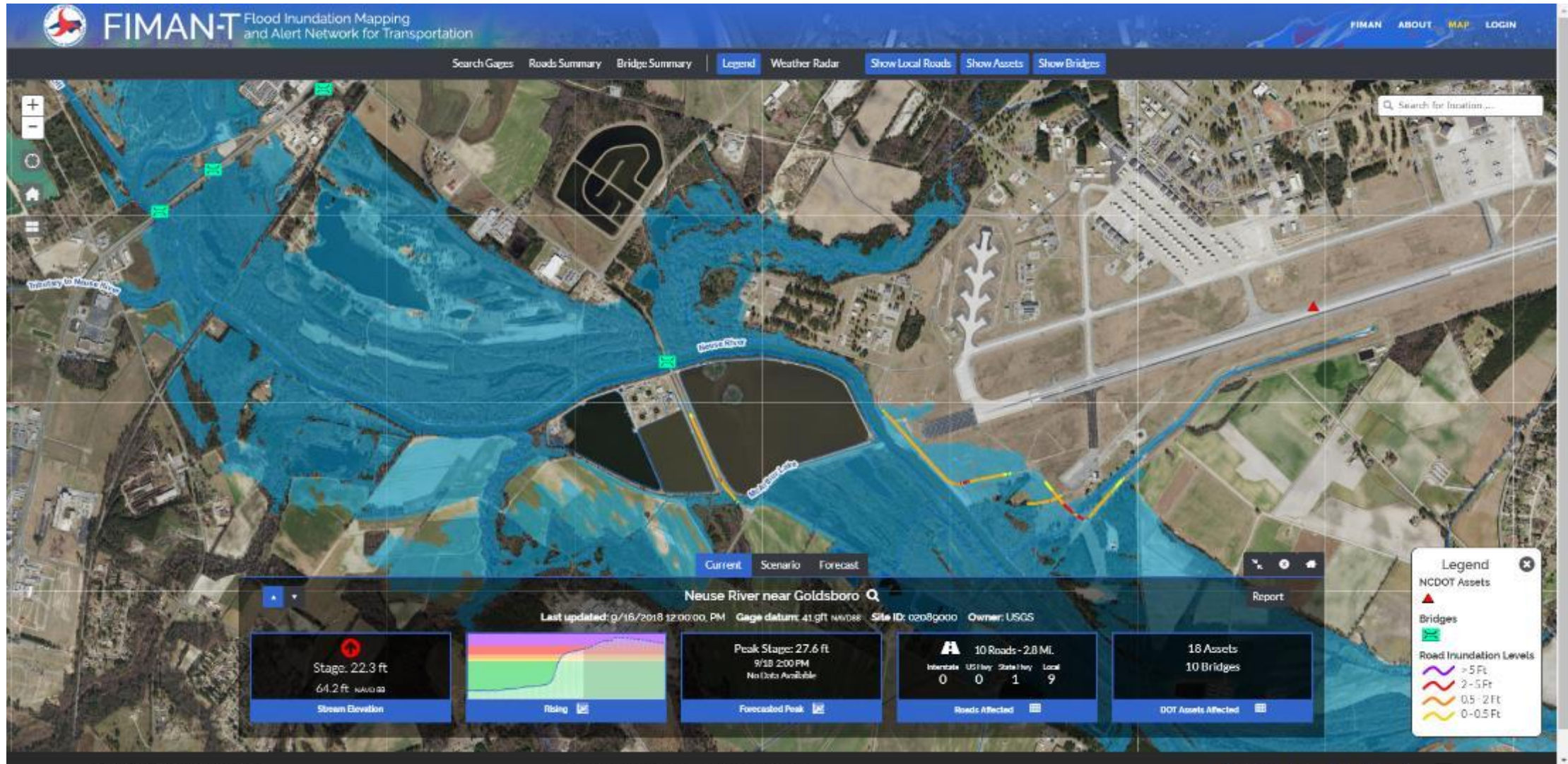


Simulation is based on
Hurricane Florence Conditions
(9/16/18 – 12:00 pm)

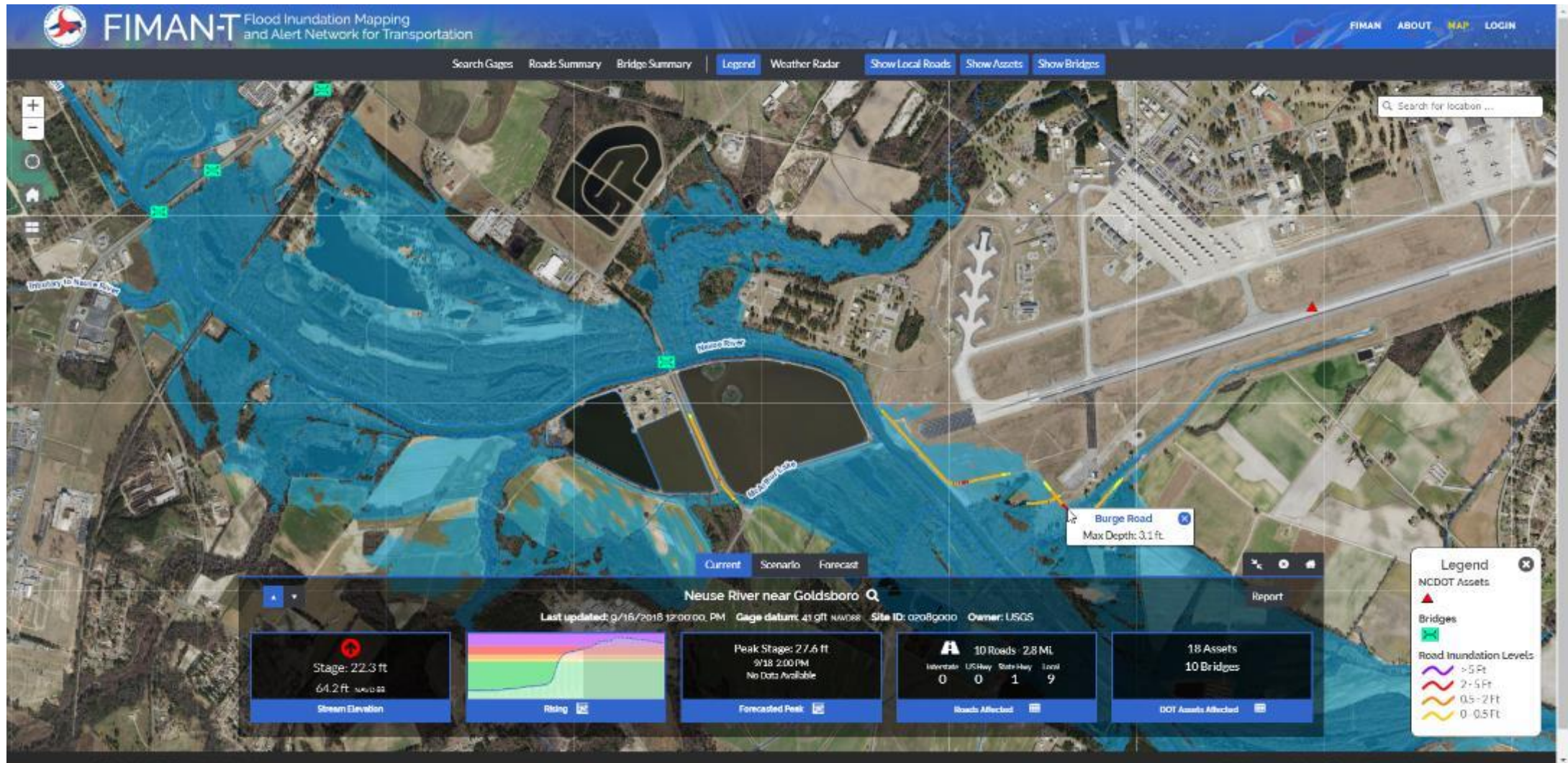
Goldsboro: Current Conditions “View”



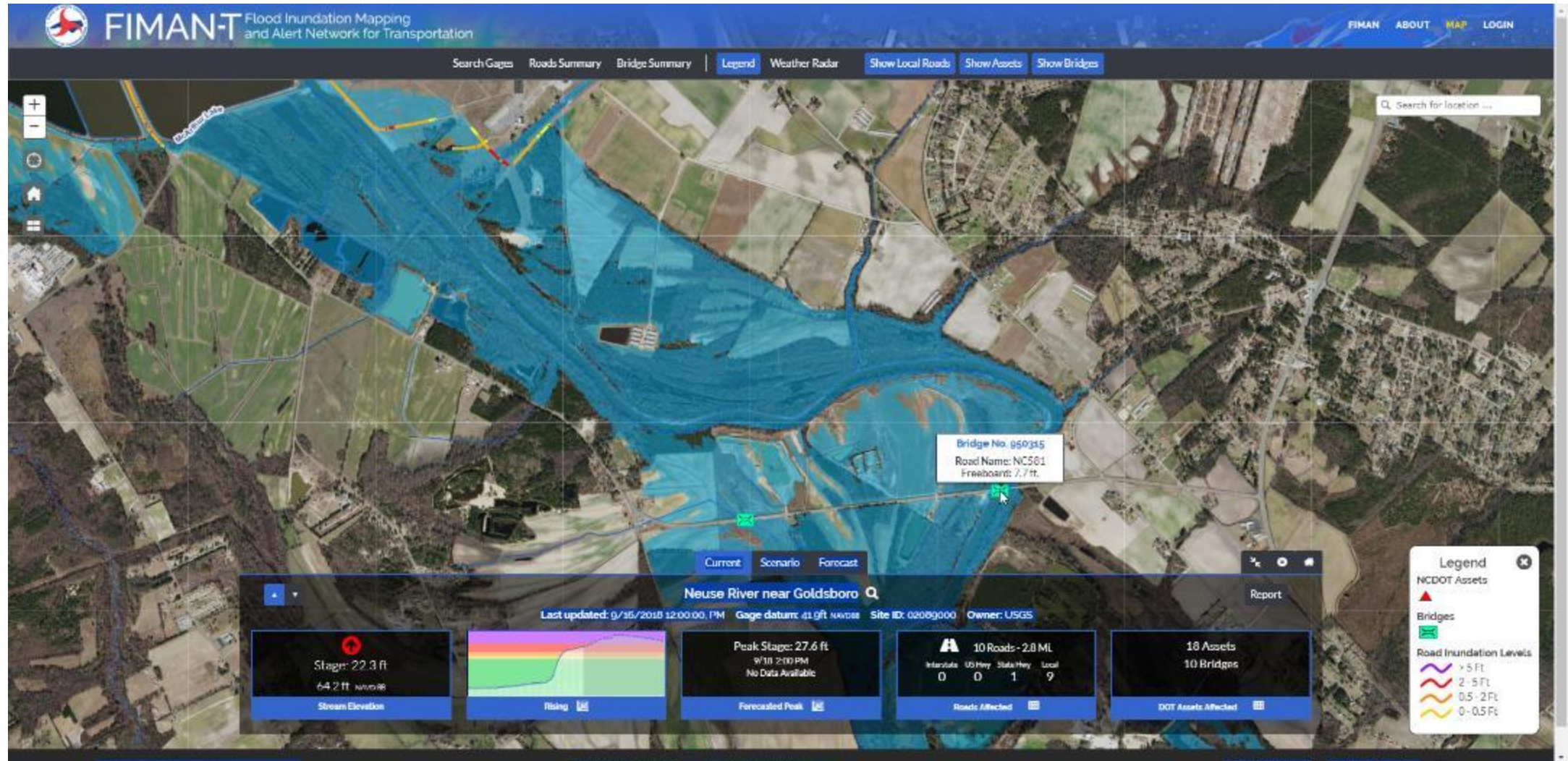
Goldsboro: Current Conditions “View”



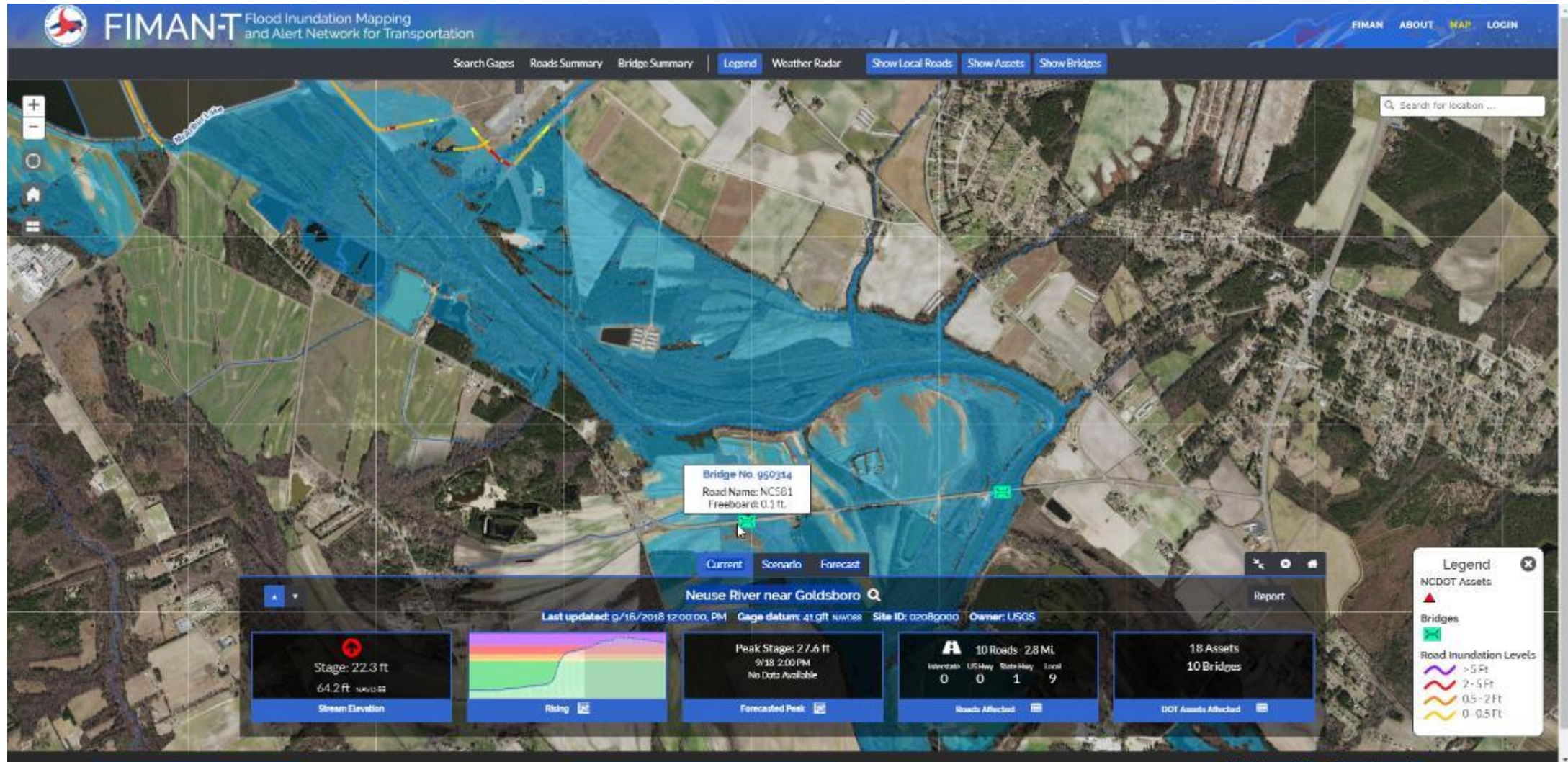
Current Conditions: Roadway Flooding (Max Depth)



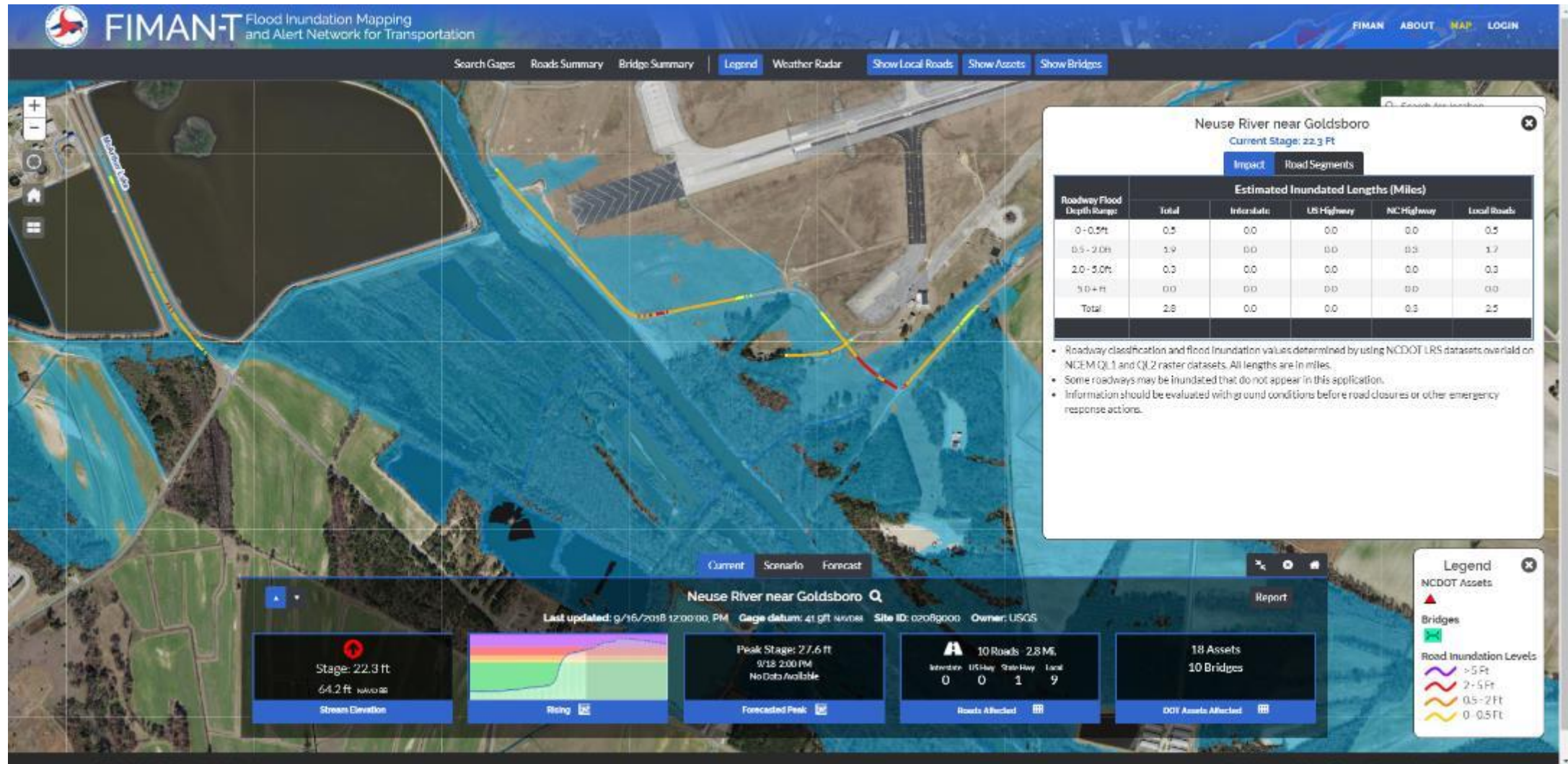
Current Conditions: Bridge Info (Hover)



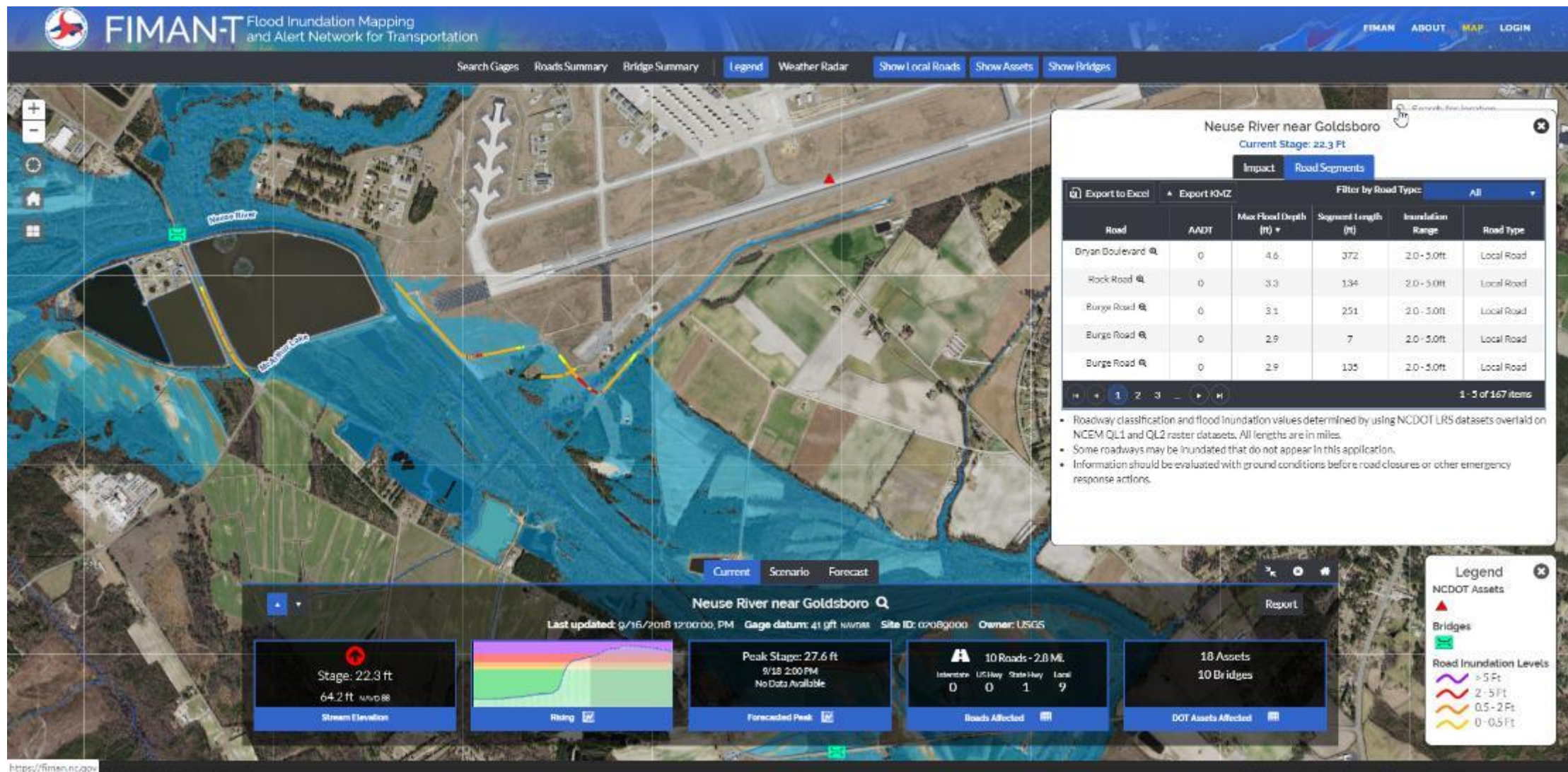
Current Conditions: Bridge Info (Hover)



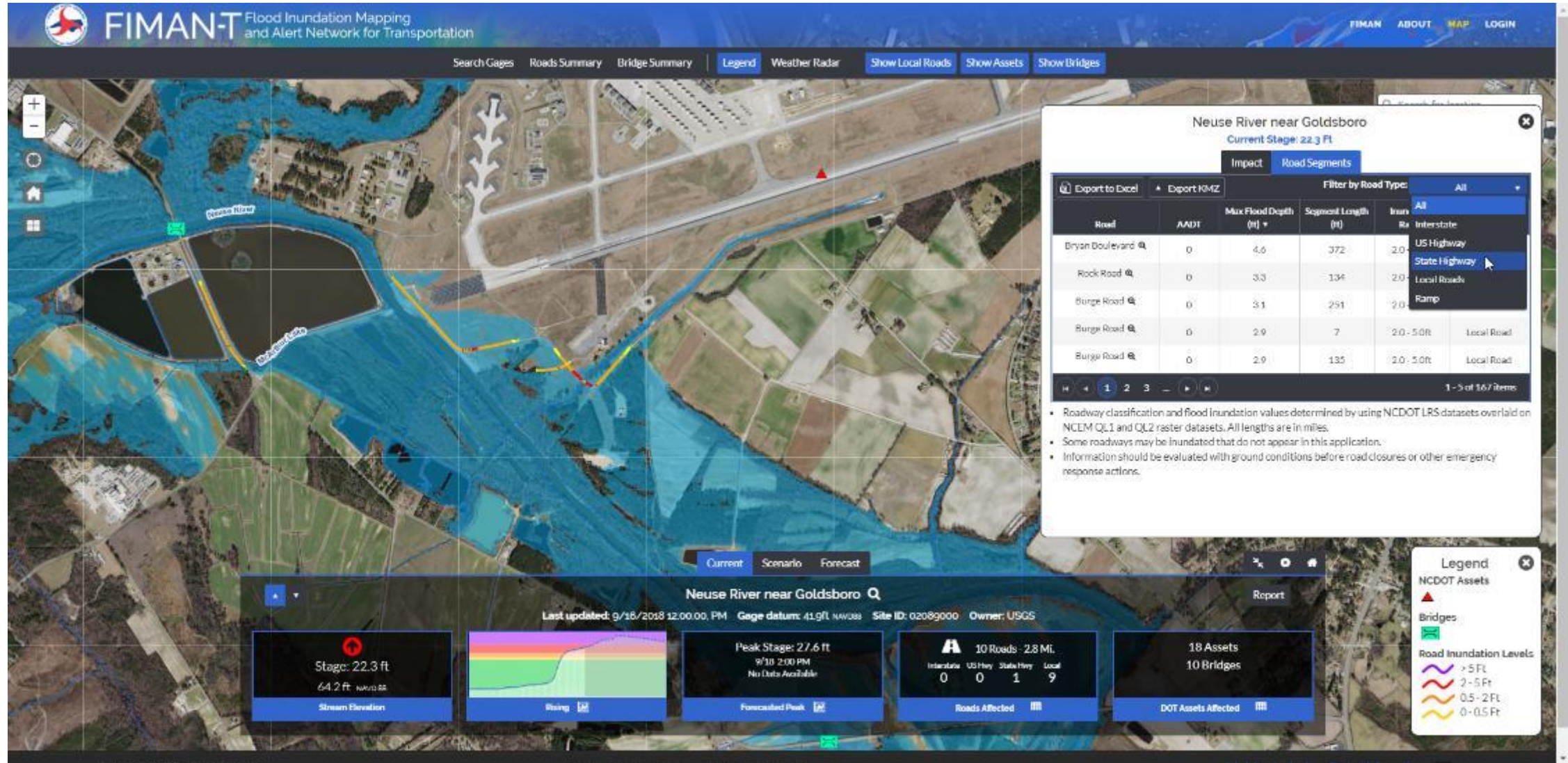
Current Conditions: Road Impact Summary



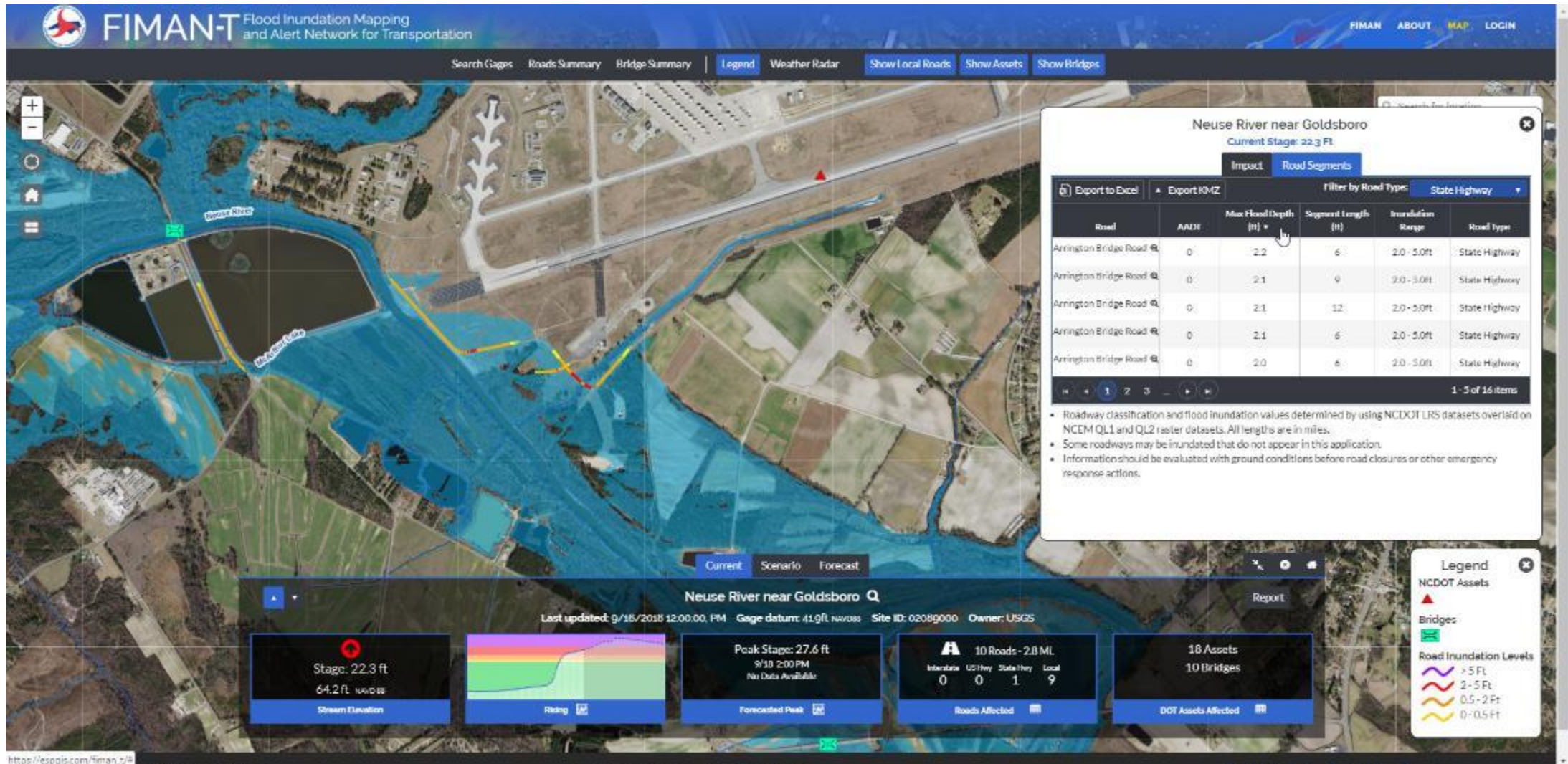
Current Conditions: Road Segment Inspector



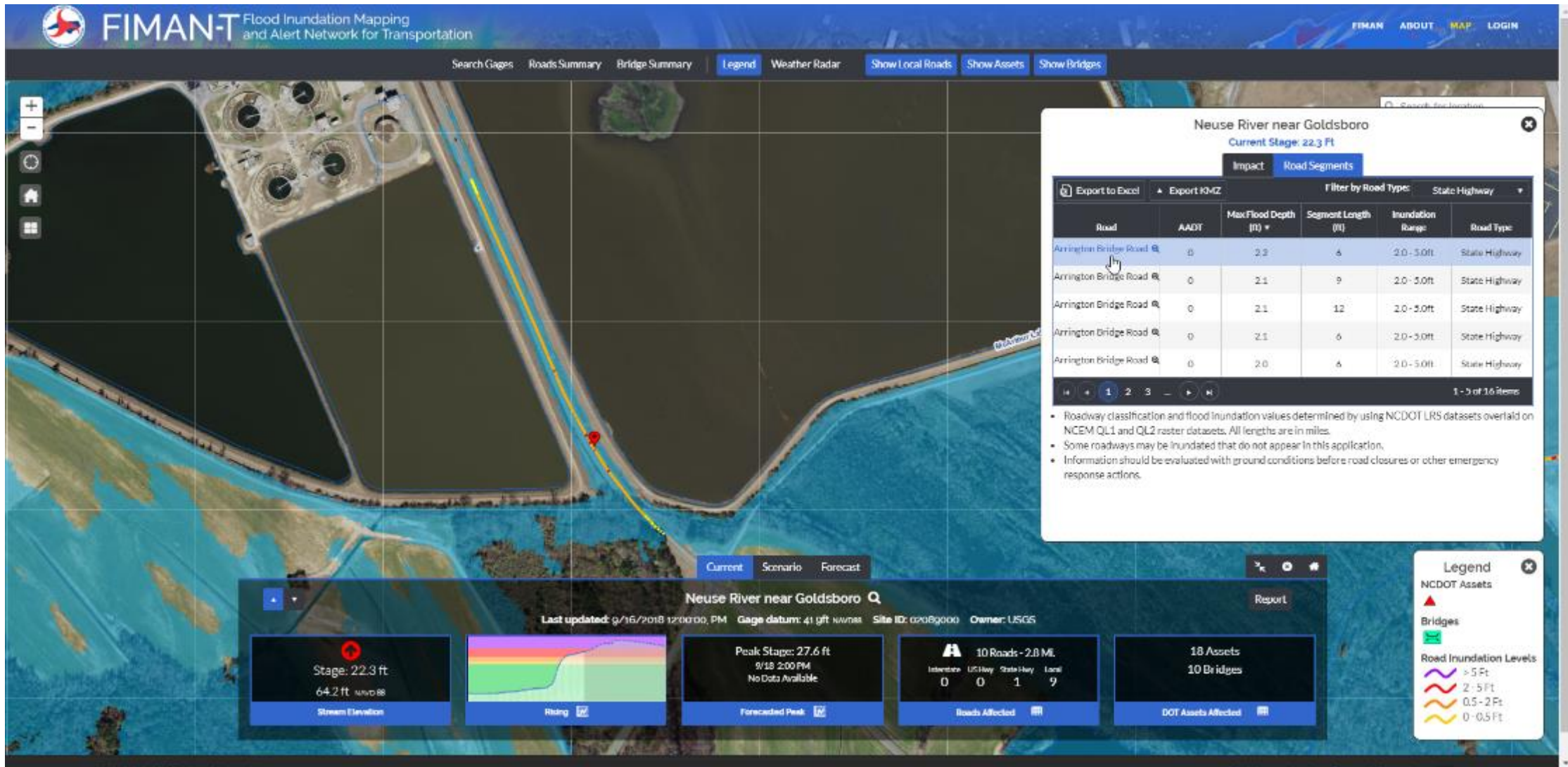
Current Conditions: Road Segment Inspector



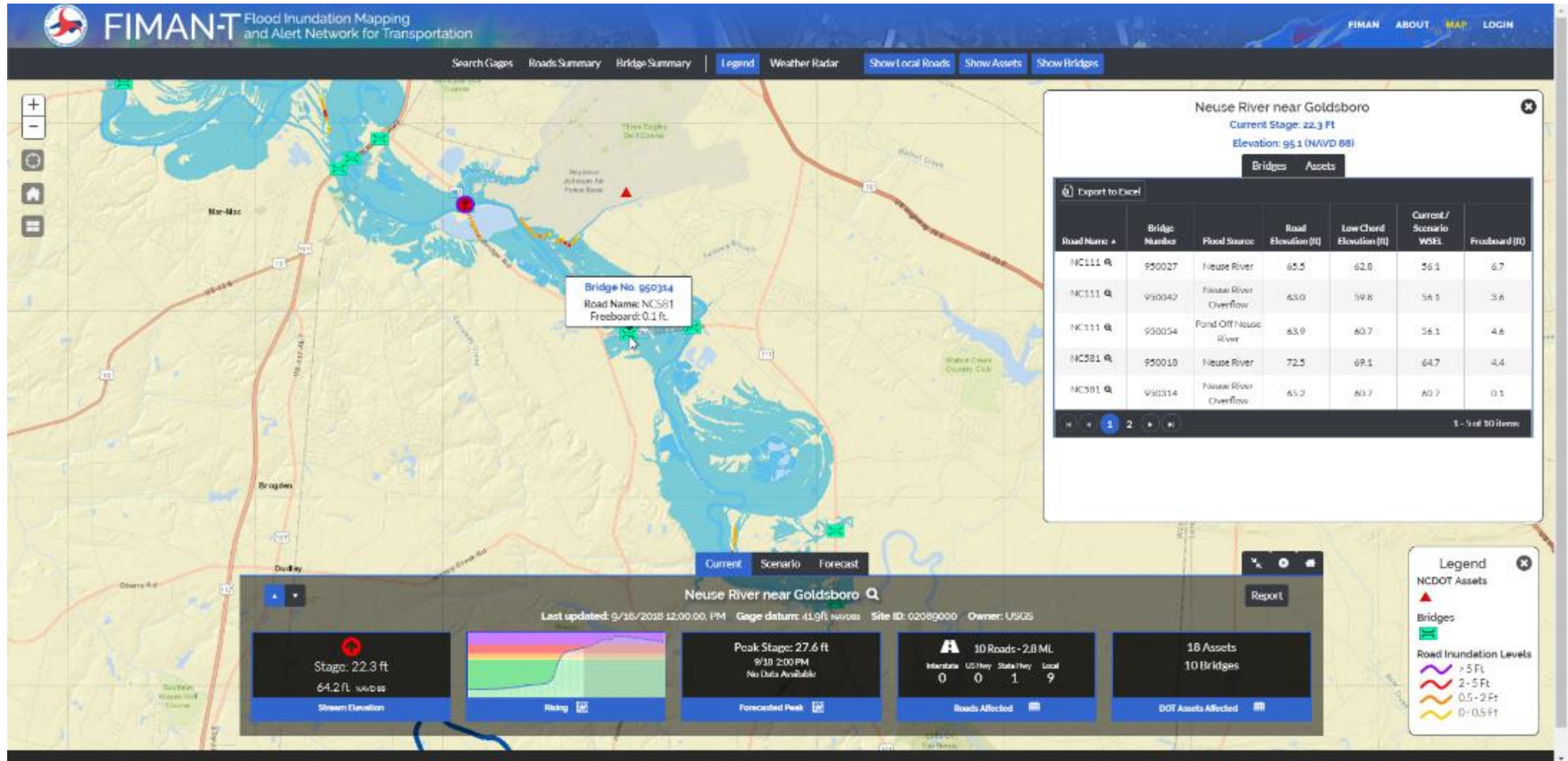
Current Conditions: Road Segment Inspector



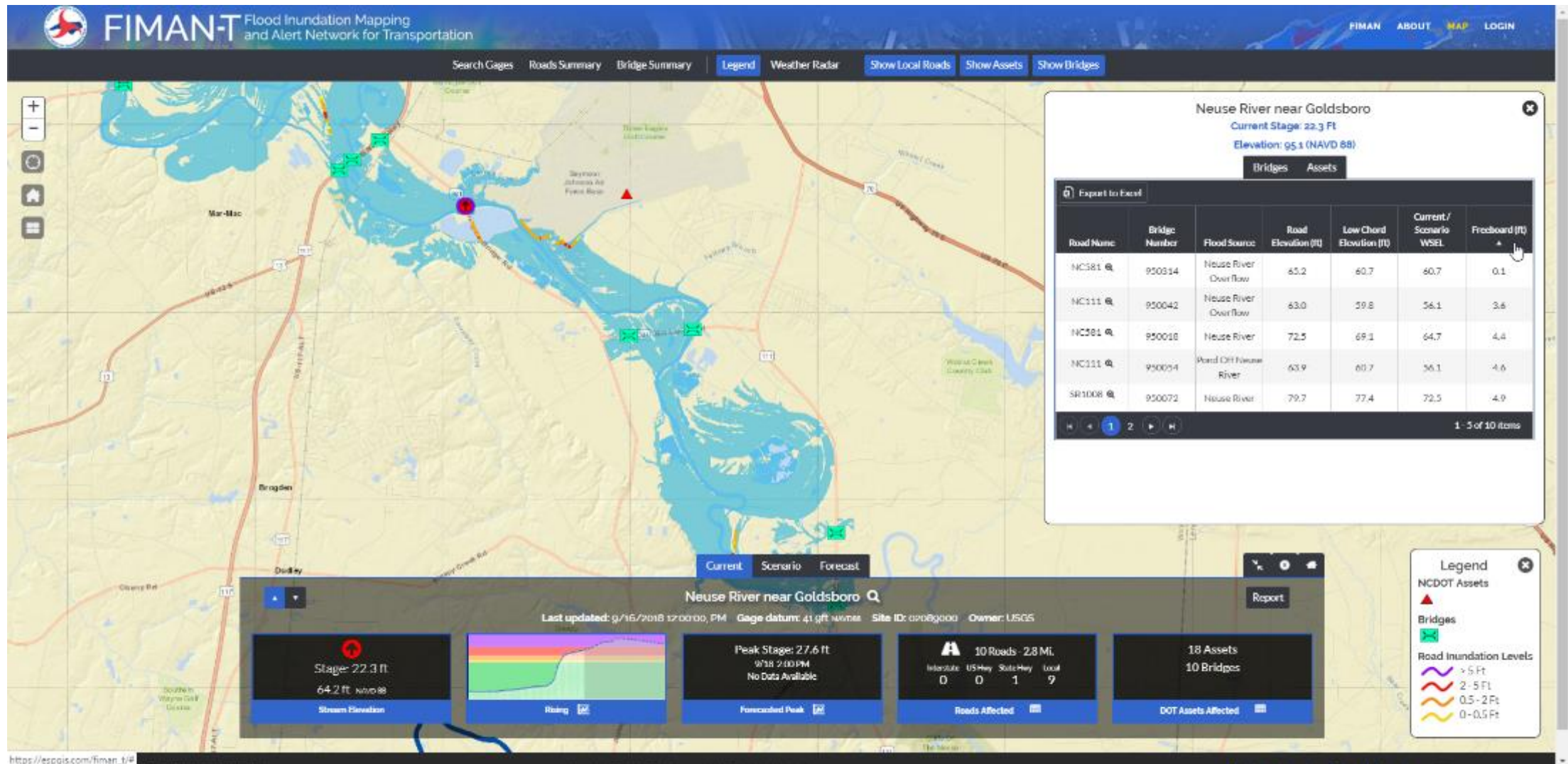
Current Conditions: Road Segment Inspector



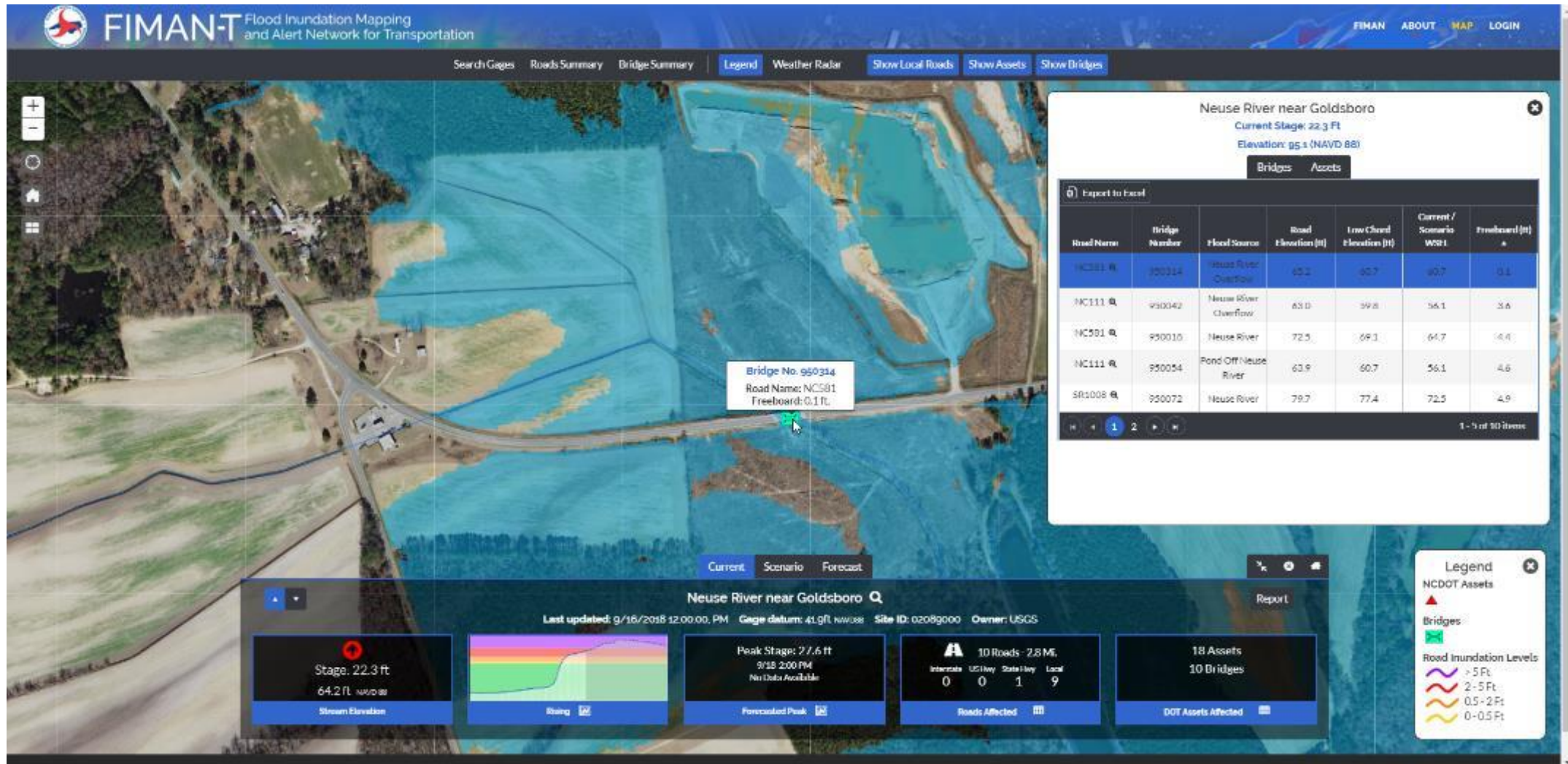
Current Conditions: Bridge Performance Summary



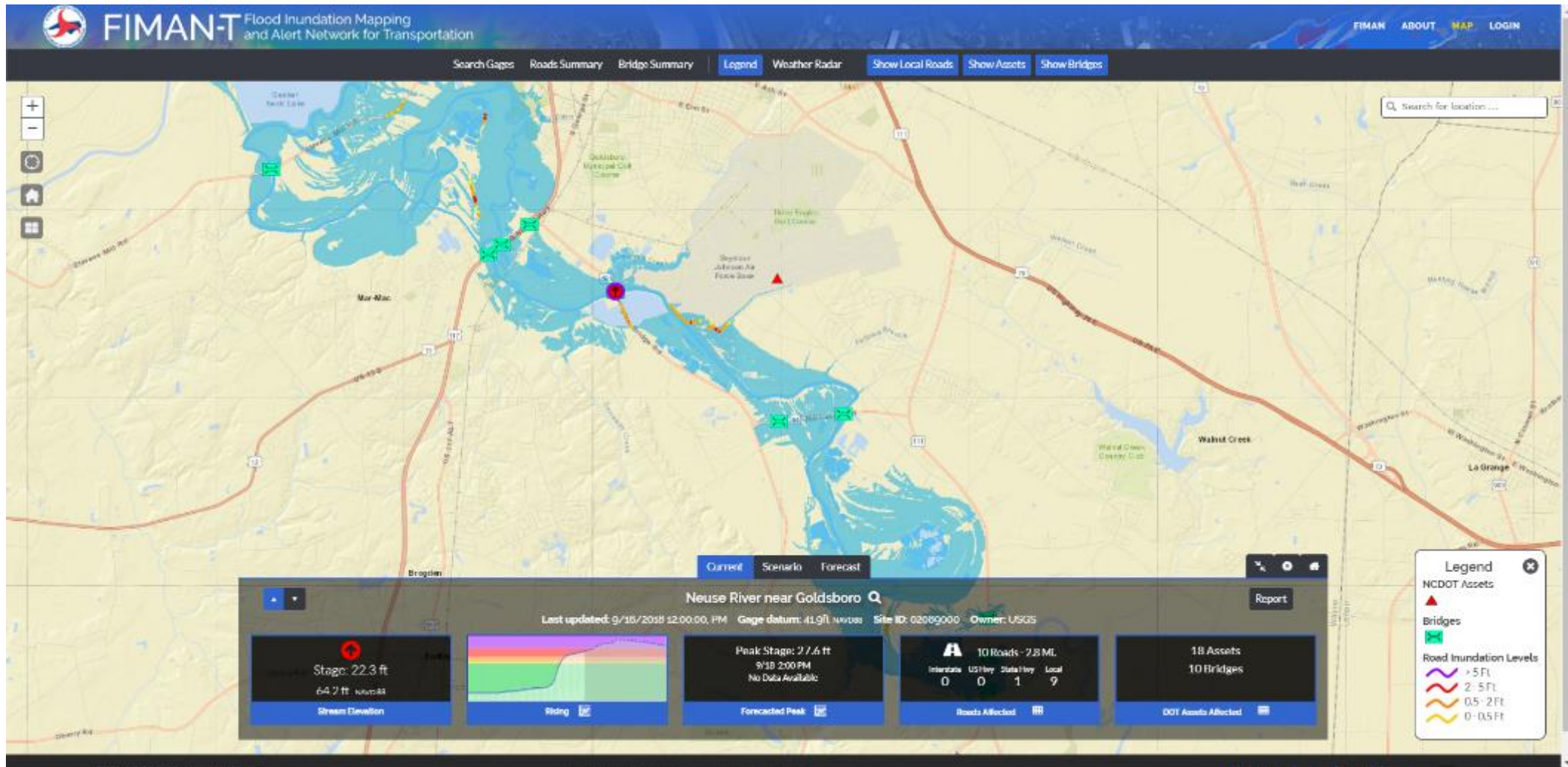
Current Conditions: Bridge Performance (Sort)



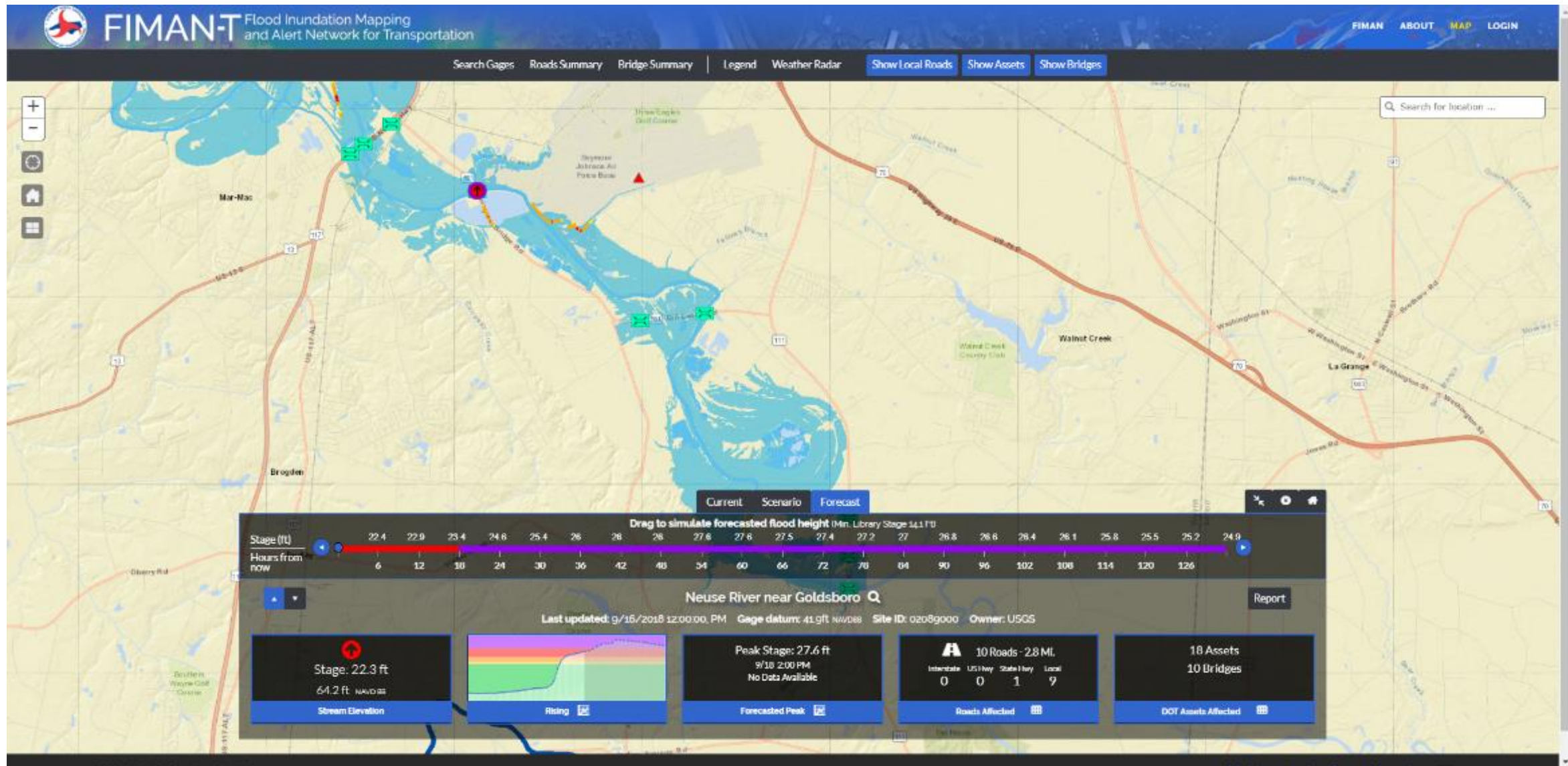
Current Conditions: Bridge Performance (Zoom to)



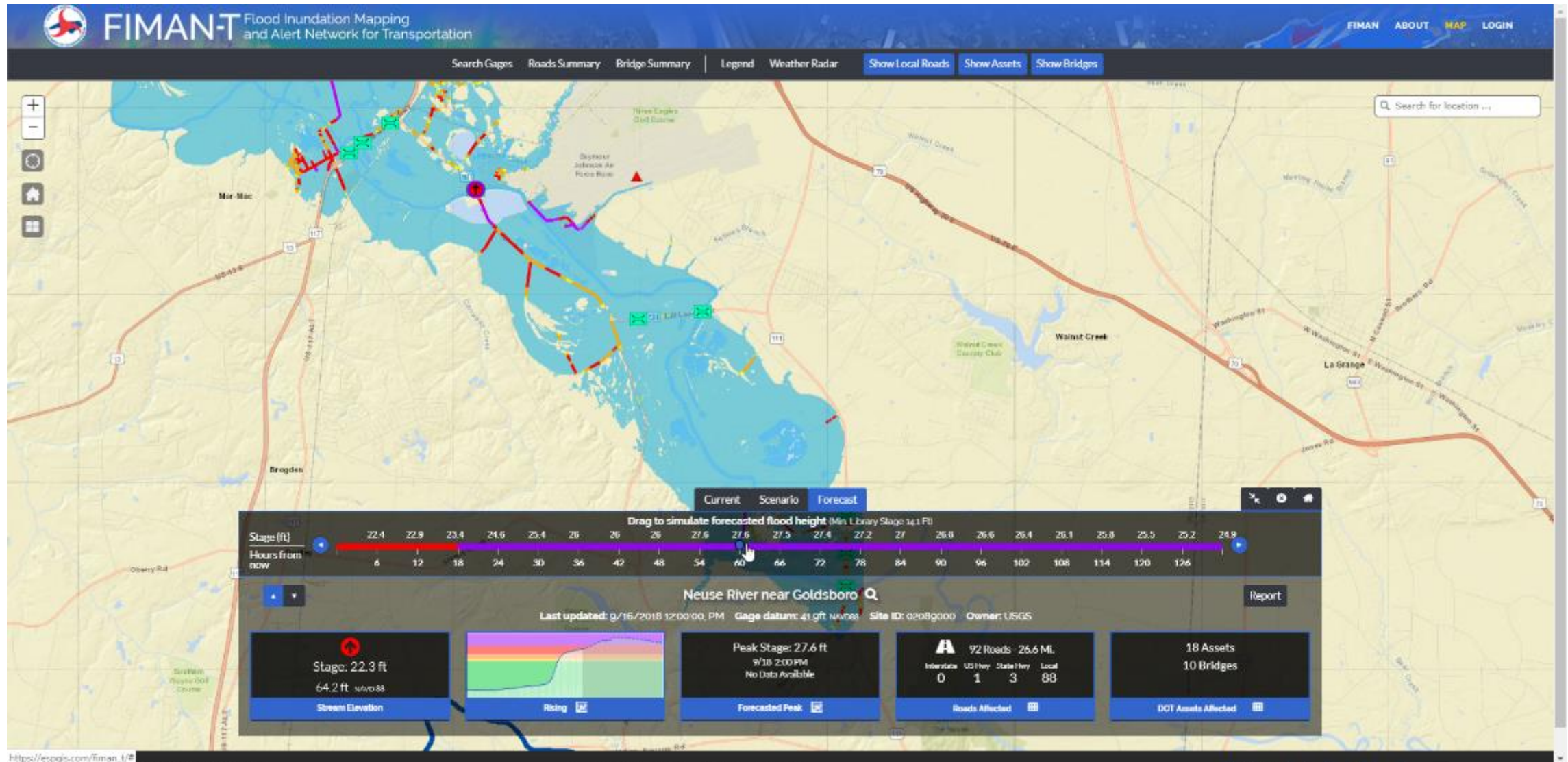
Current Conditions: Goldsboro



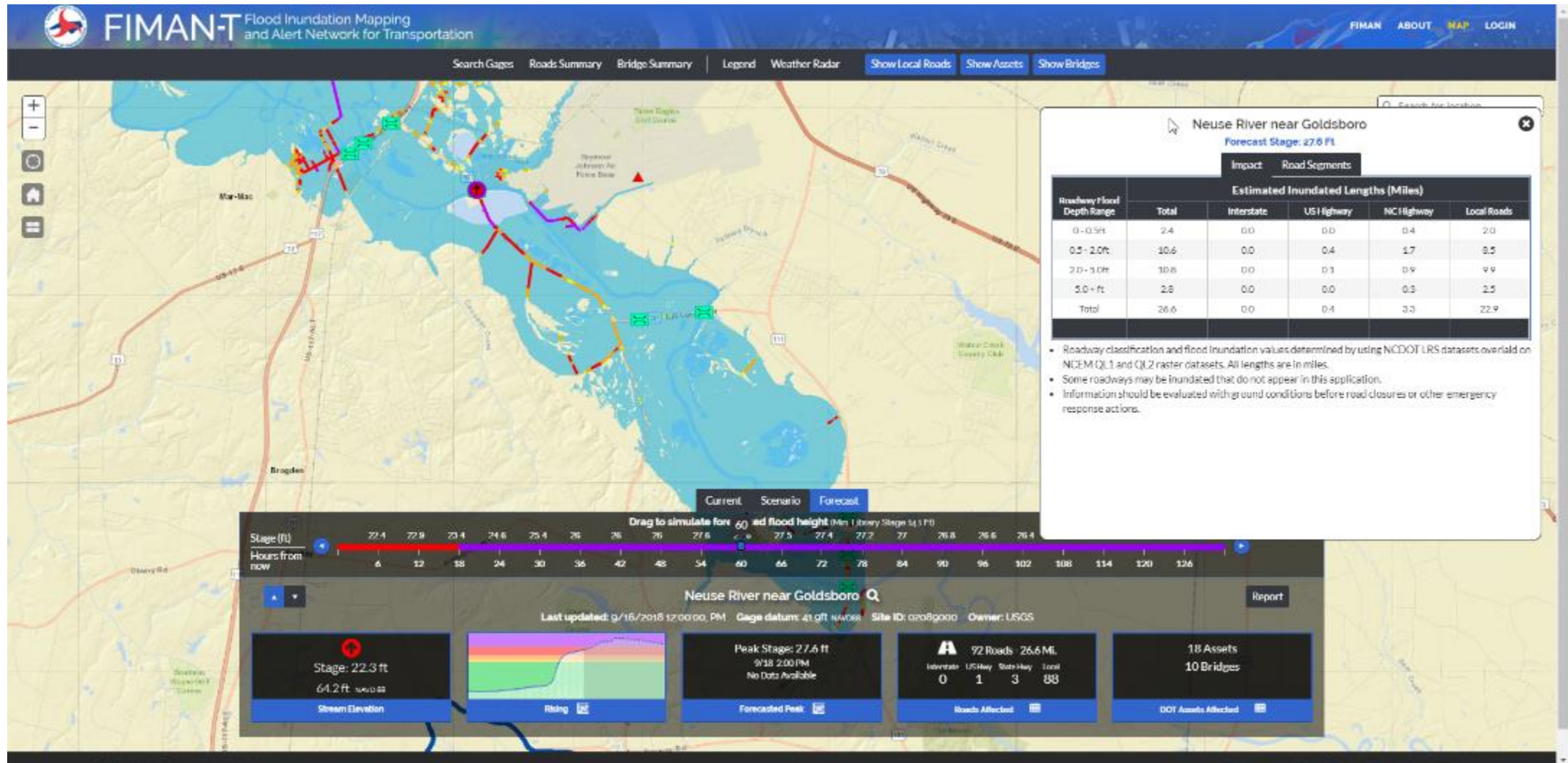
FIMAN-T Forecast Tab: Goldsboro



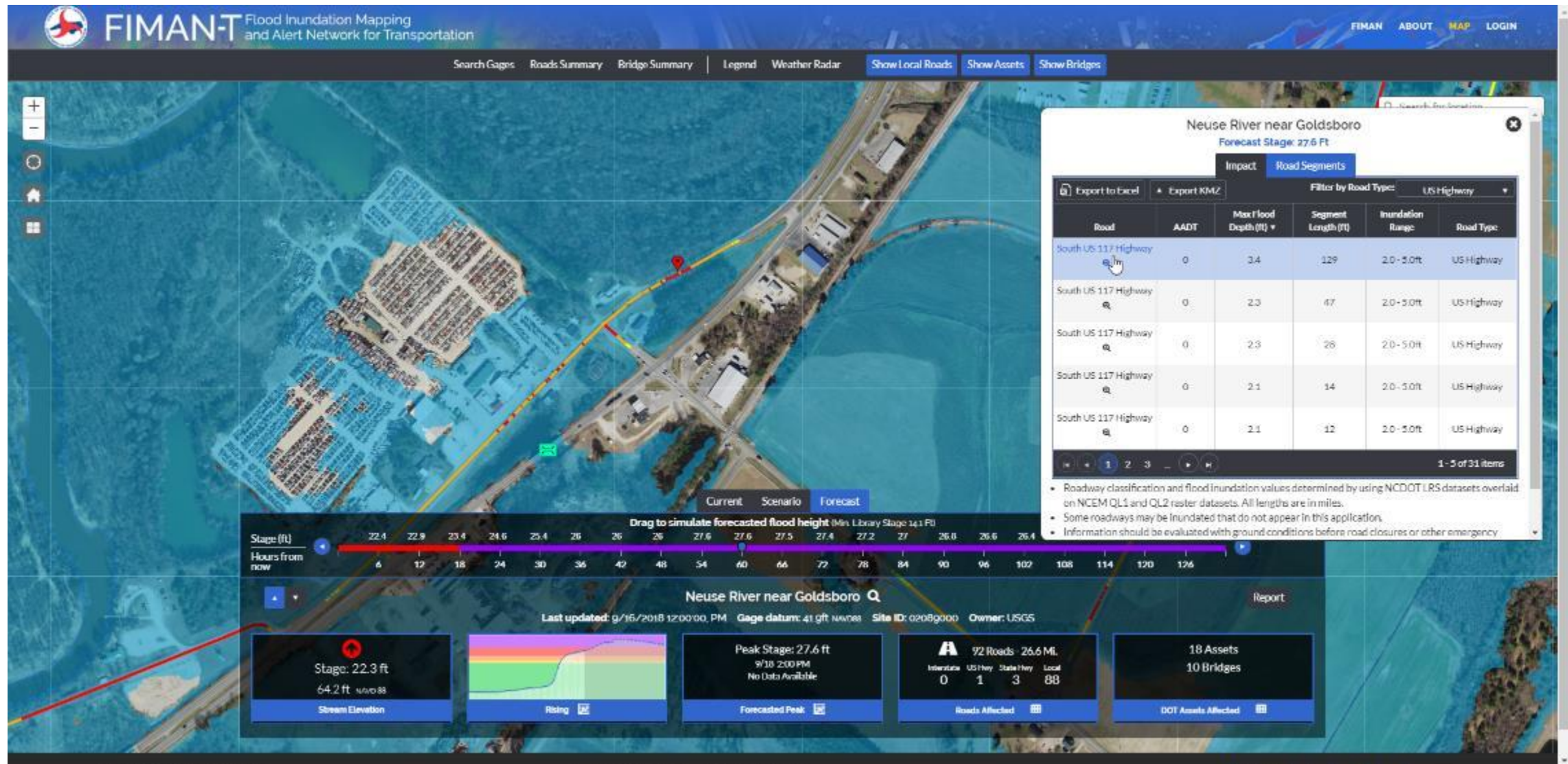
Forecasted Peak: Goldsboro



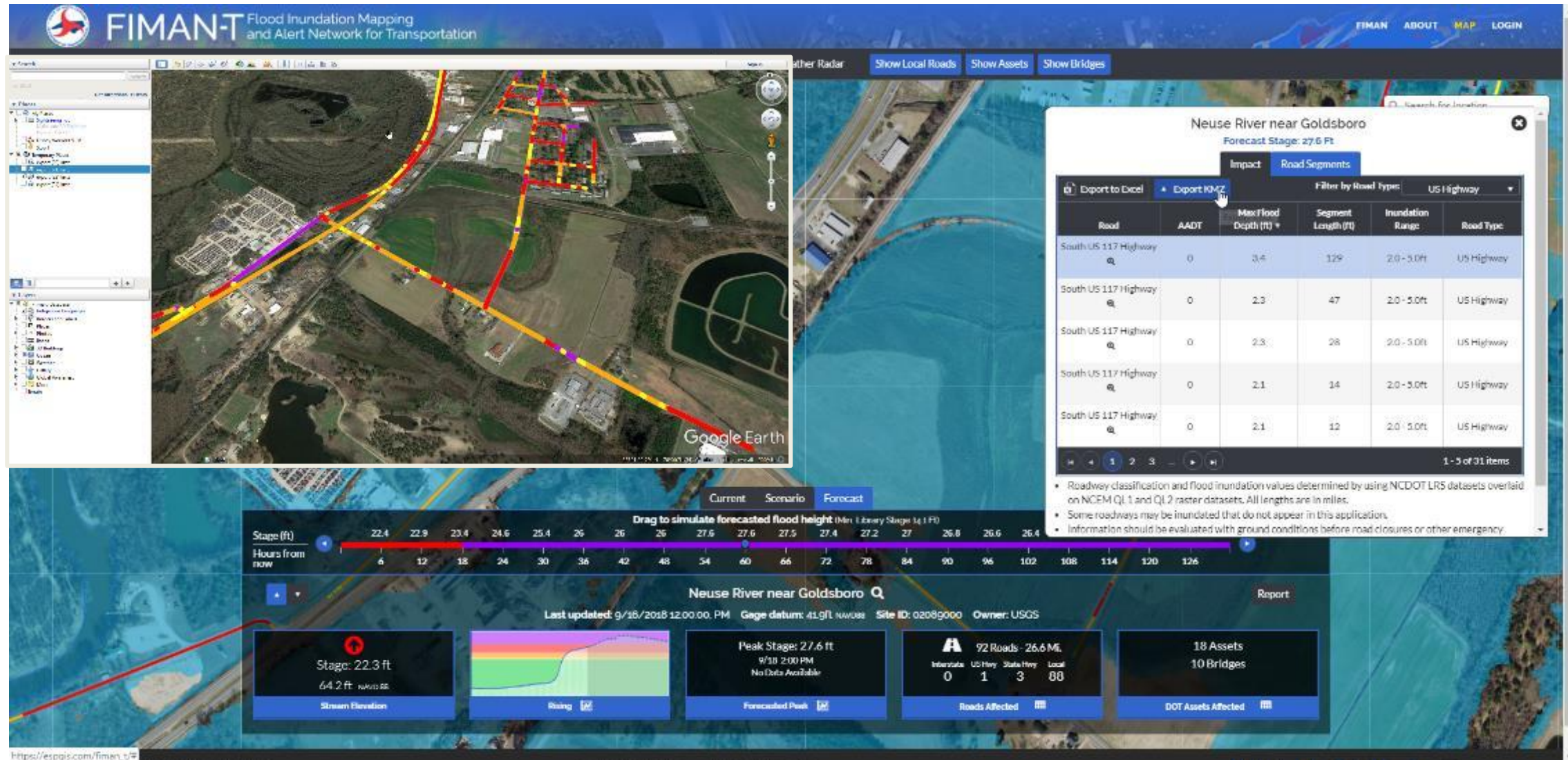
Forecasted Peak: Road Inundation Summary



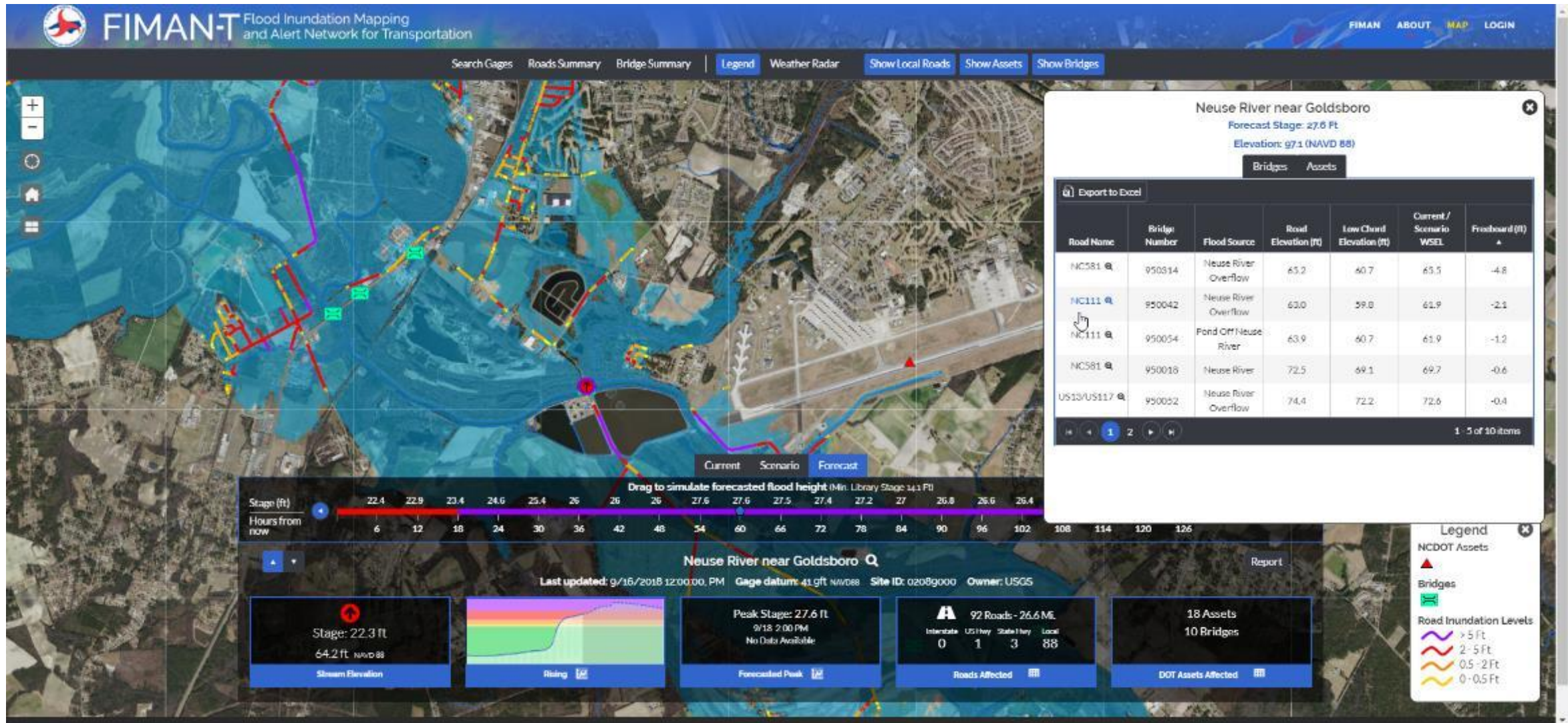
Forecasted Peak: Interactive Road Inundation (Zoom to)



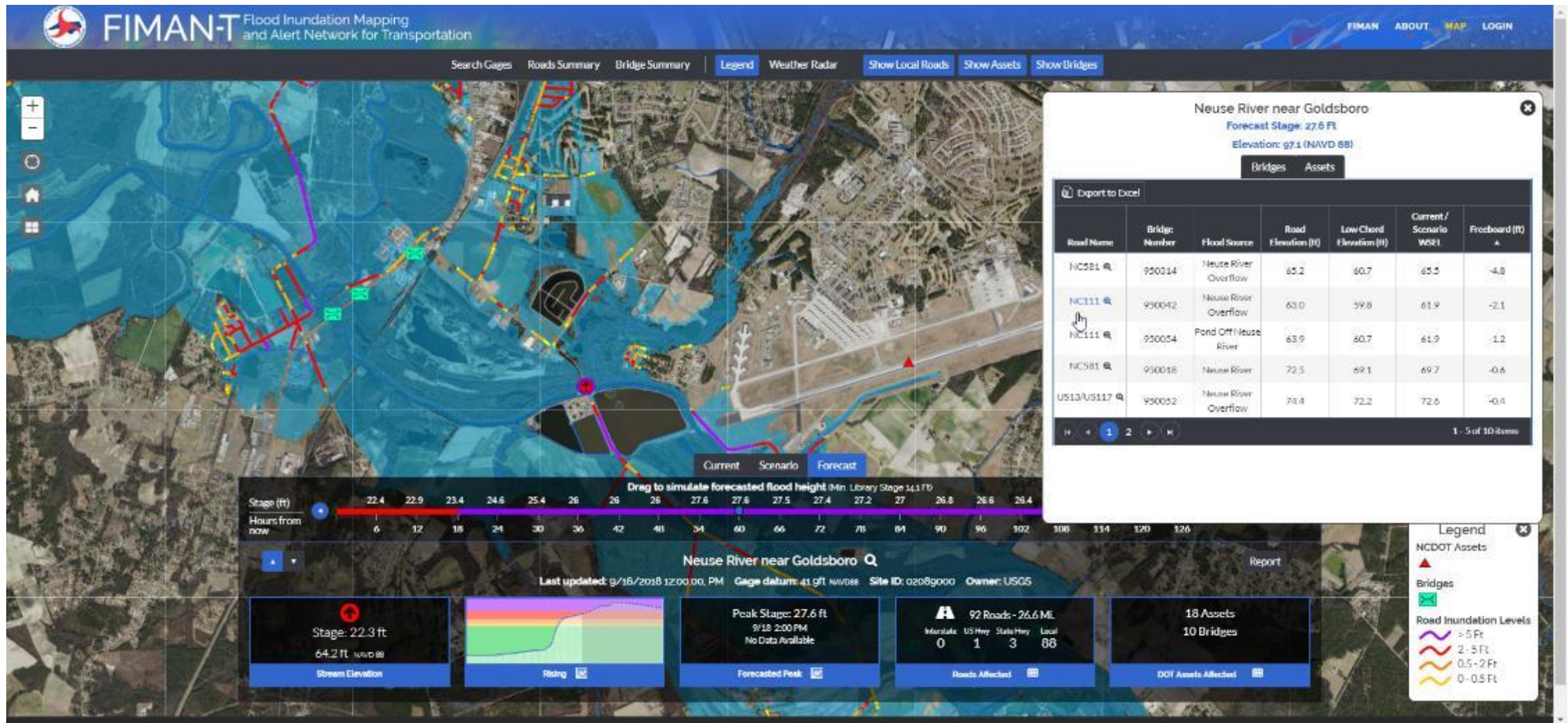
Forecasted Peak: Google Earth Export



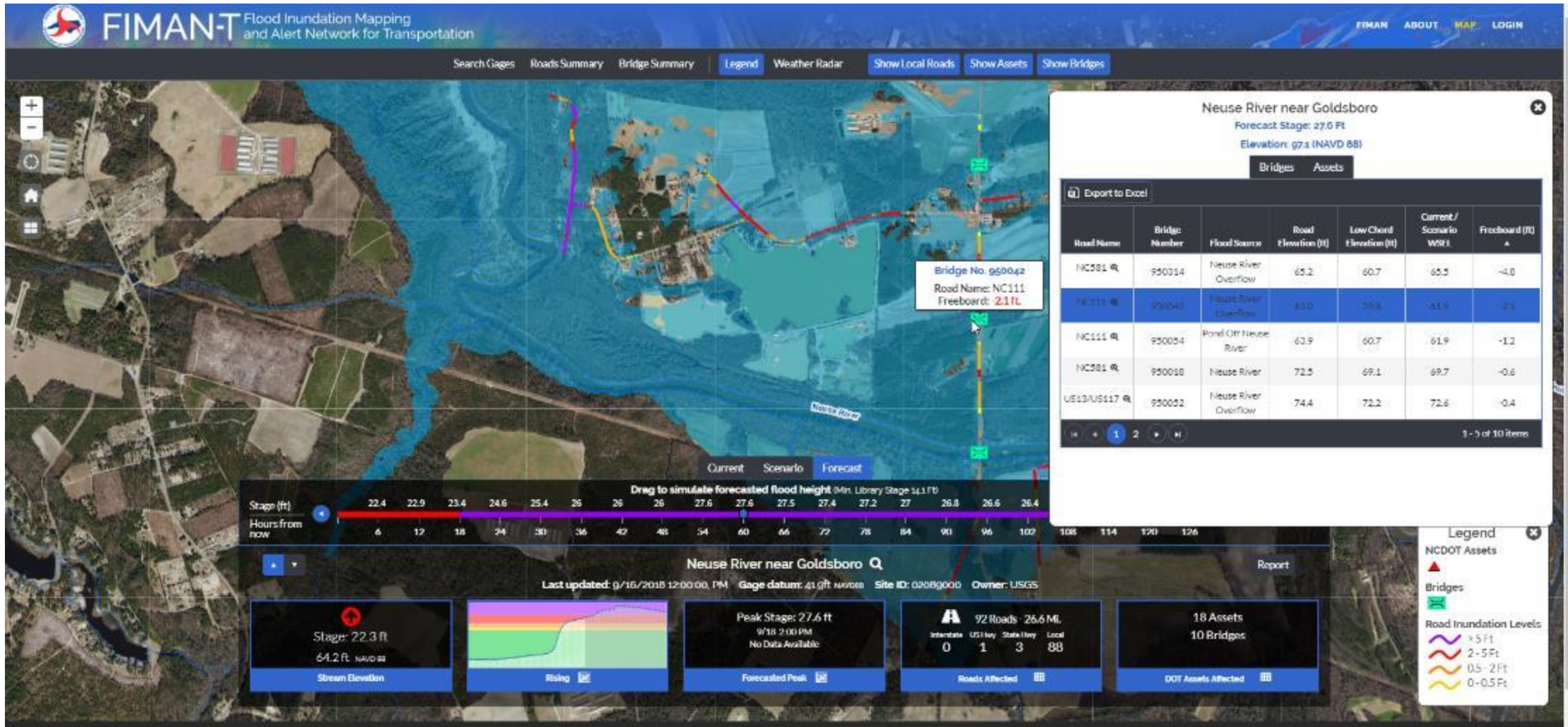
Forecasted Peak: Bridge Performance Table



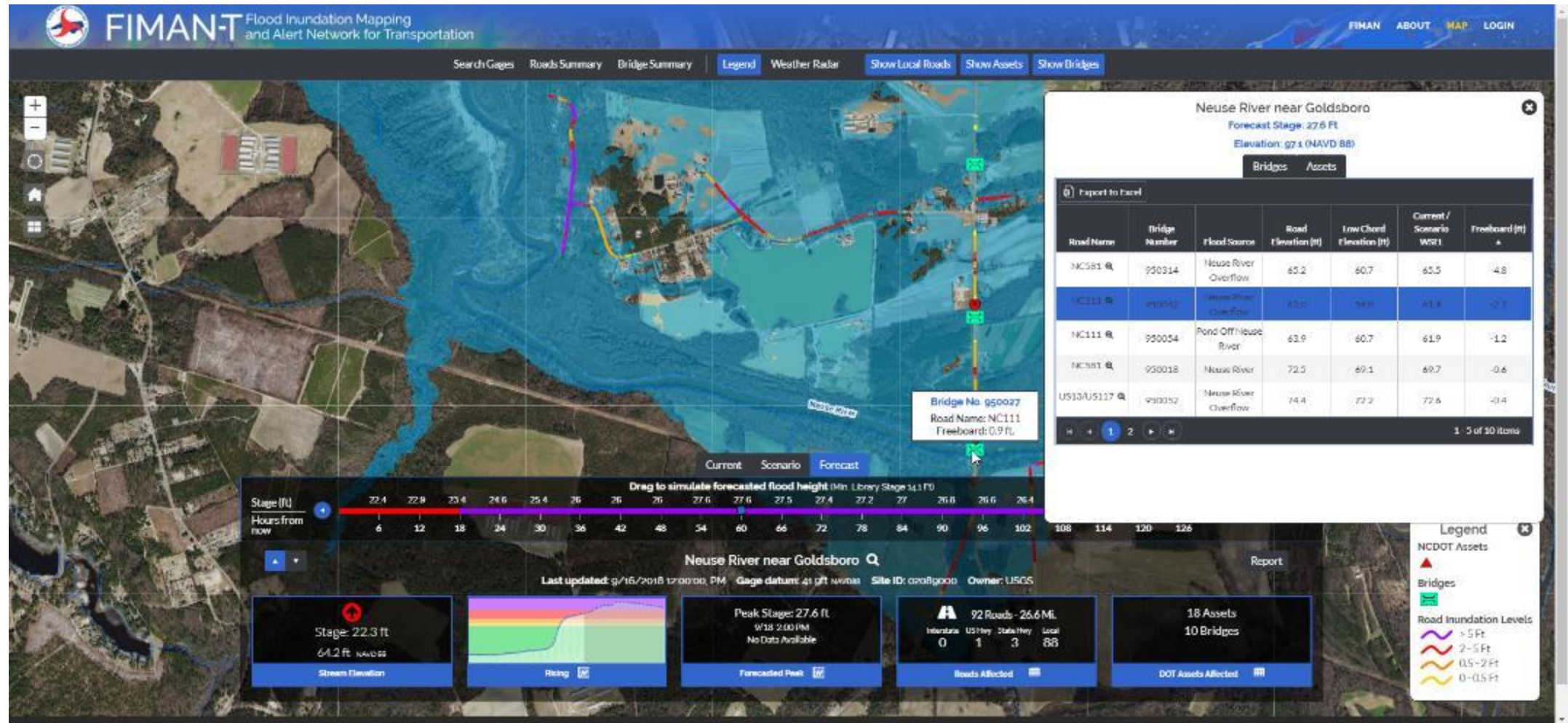
Forecasted Peak: Bridge Performance Table (Zoom To)



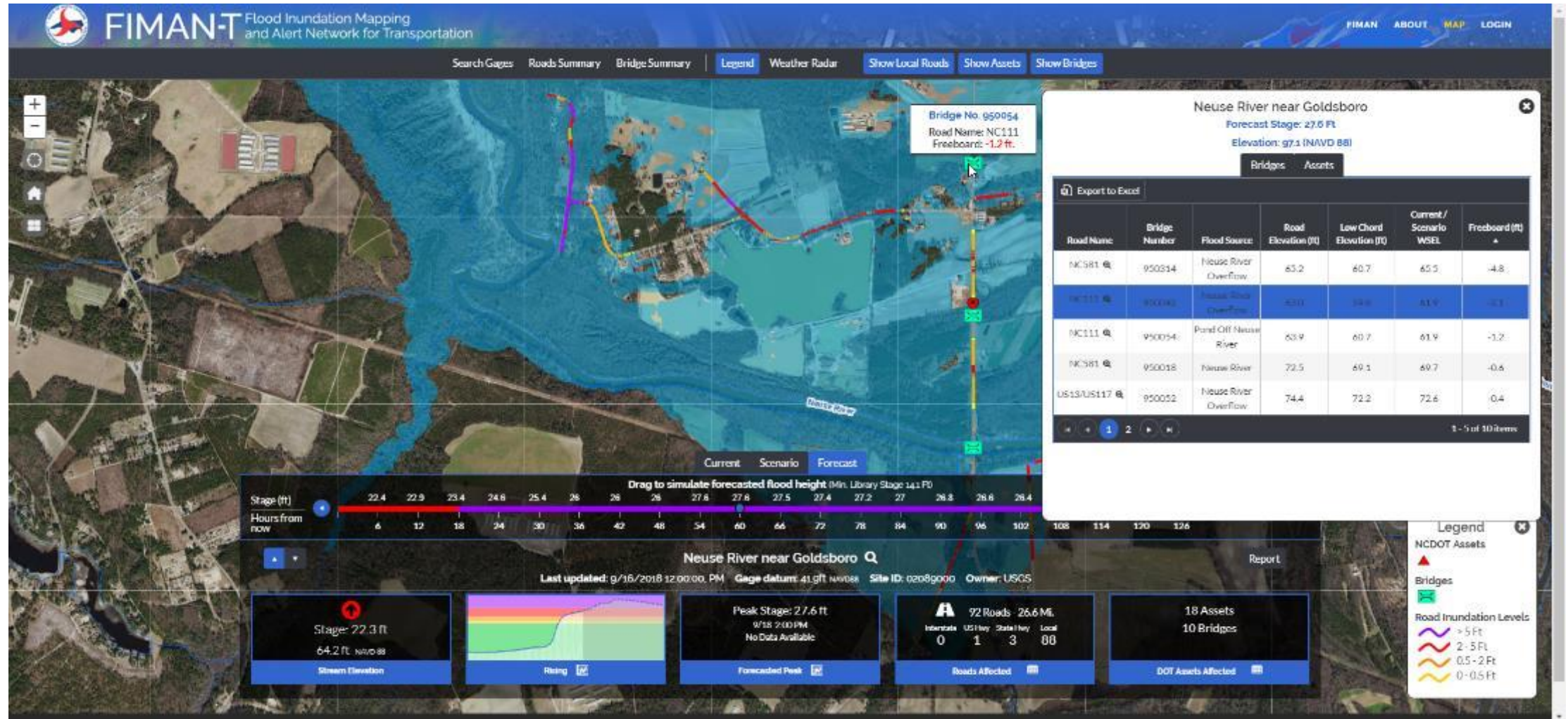
Forecasted Peak: Bridge Performance Table



Forecasted Peak: Bridge Performance Table



Forecasted Peak: Bridge Performance Table



Forecasted Peak: Bridge Performance Excel Export

FIMAN-T Flood Inundation Mapping and Alert Network for Transportation

ExportFimanTHydroCrossings (2).xlsx - Excel

David Key

File Home Insert Page Layout Formulas Data Review View Help Nitro Pro Acrobat Tell me Share

C6

Neuse River

FIMAN-T: Bridge Performance Summary

Neuse River near Goldsboro

This report was generated using an elevation of 69.5 ft. and a stage of Forecast Stage: 27.6 ft.

Road Name	Bridge Number	Flood Source	Road Elevation (ft)	Low Chord Elevation (ft)	Current / Scenario / Forecast WSEL	Freeboard (ft)
NC581	950018	Neuse River	72.5	69.1	69.7	-0.6
NC111	950027	Neuse River	65.5	62.8	61.9	0.9
US13/US117 SBL	950033	Neuse River	77.6	74.8	72.6	2.2
NC111	950042	Neuse River Overflow	63.0	59.8	61.9	-2.1
US13/US117	950052	Neuse River Overflow	74.4	72.2	72.6	-0.4
NC111	950054	Pond Off Neuse River	63.9	60.7	61.9	-1.2
US13N & US117N	950058	Neuse River Overflow	75.7	72.4	72.6	-0.2
SR1008	950072	Neuse River	79.7	77.4	75.3	2.1
NC581	950314	Neuse River Overflow	65.2	60.7	65.5	-4.8
NC581	950315	Neuse River	72.1	68.4	65.5	2.9

Sheet1

Ready

Display Settings

Neuse River near Goldsboro

Last updated: 9/16/2018 12:00:00 PM. Gage datum: 41 gft NAVD83. Site ID: 02089000. Owner: USGS

Stage: 22.3 ft
64.2 ft NAVD83
Stream Elevation

Rising

Peak Stage: 27.6 ft
9/18 2:00 PM
No Data Available
Forecasted Peak

92 Roads - 26.6 MI
Interstate 0 US Hwy 1 State Hwy 3 Local 88
Roads Affected

18 Assets
10 Bridges
DOT Assets Affected

Legend
NCDOT Assets
Bridges
Road Inundation Levels
- > 5 Ft
- 2 - 5 Ft
- 0.5 - 2 Ft
- 0 - 0.5 Ft

Neuse River near Goldsboro
Forecast Stage: 27.6 Ft
Elevation: 97.1 (NAVD 88)

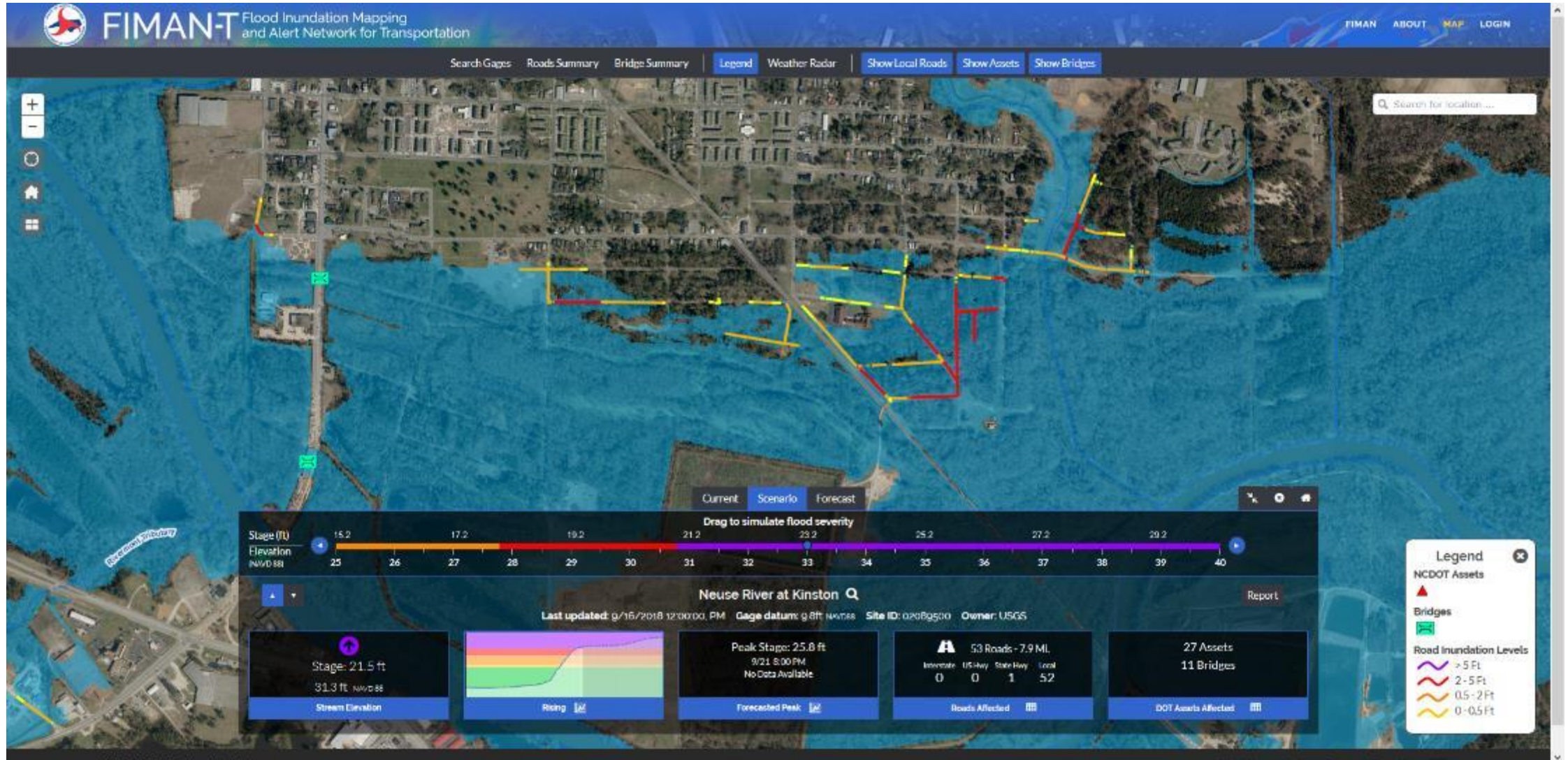
Bridges Assets

Export to Excel

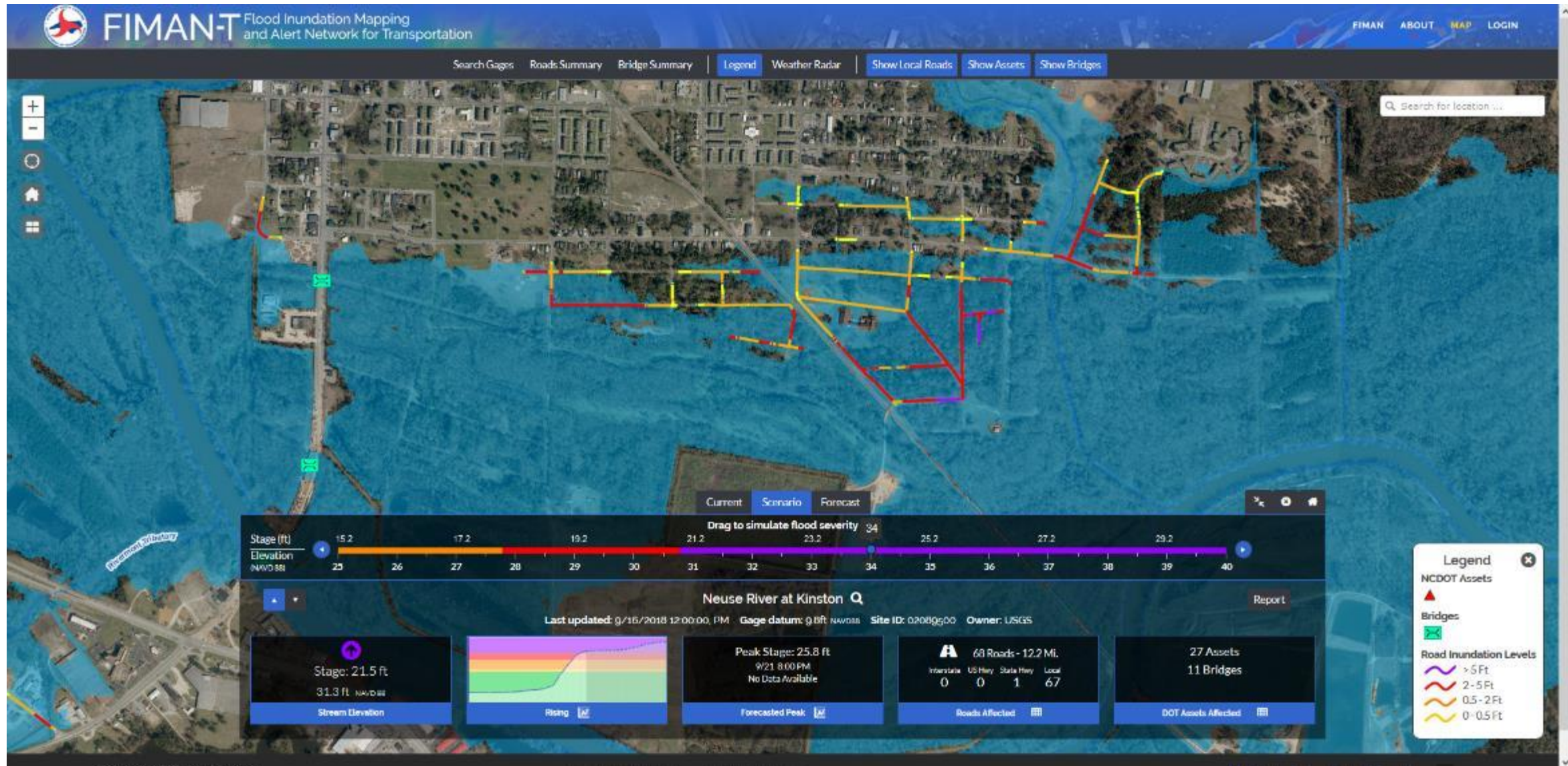
Road Name	Bridge Number	Flood Source	Road Elevation (ft)	Low Chord Elevation (ft)	Current / Scenario WSEL	Freeboard (ft)
NC581	950018	Neuse River	72.5	69.1	69.7	-0.6
NC111	950027	Neuse River	65.5	62.8	61.9	0.9
US13/US117 SBL	950033	Neuse River	77.6	74.8	72.6	2.2
NC111	950042	Neuse River Overflow	63.0	59.8	61.9	-2.1
US13/US117	950052	Neuse River Overflow	74.4	72.2	72.6	-0.4

1 - 5 of 10 items

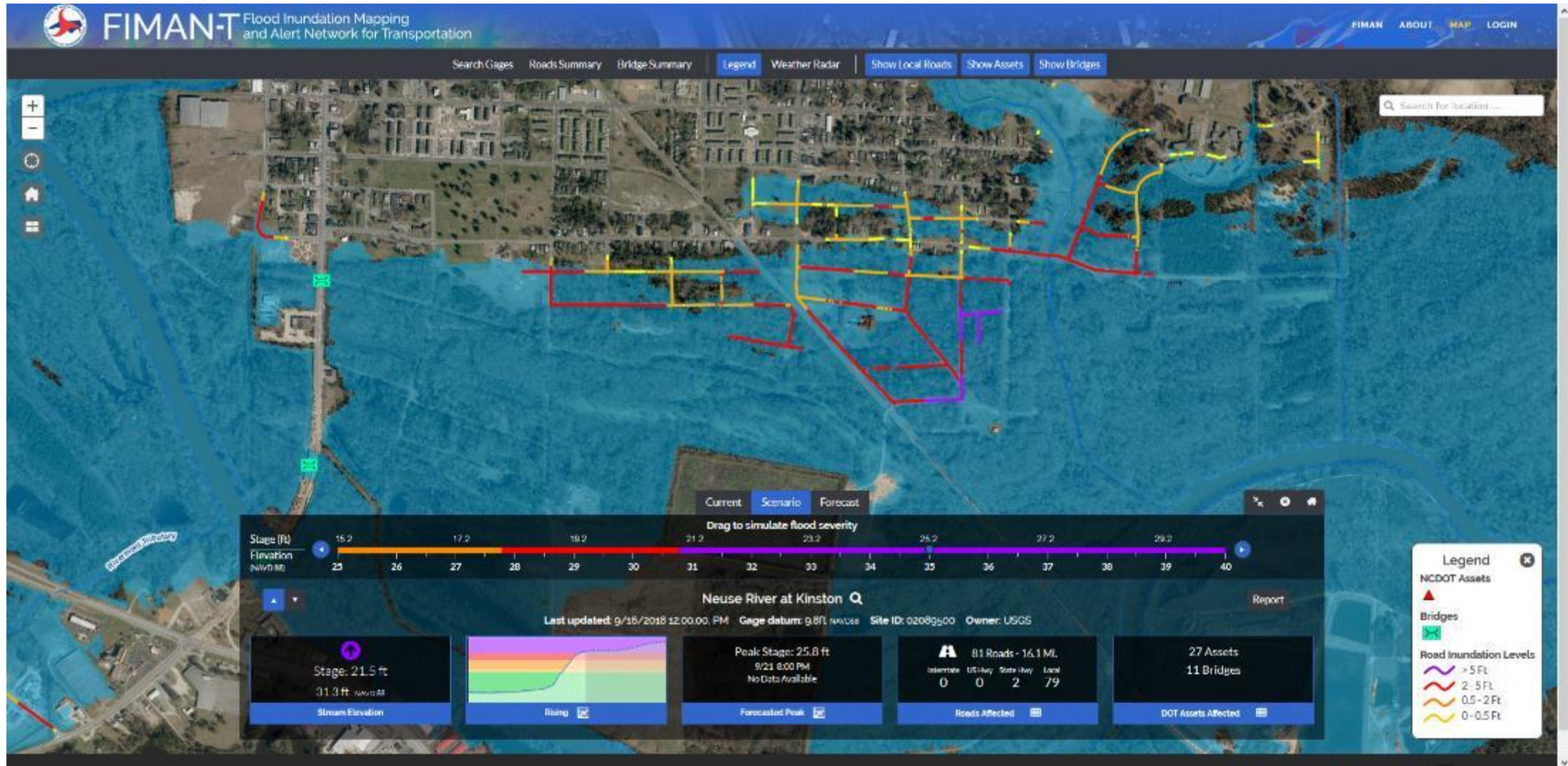
Scenario: Kinston (33-ft)



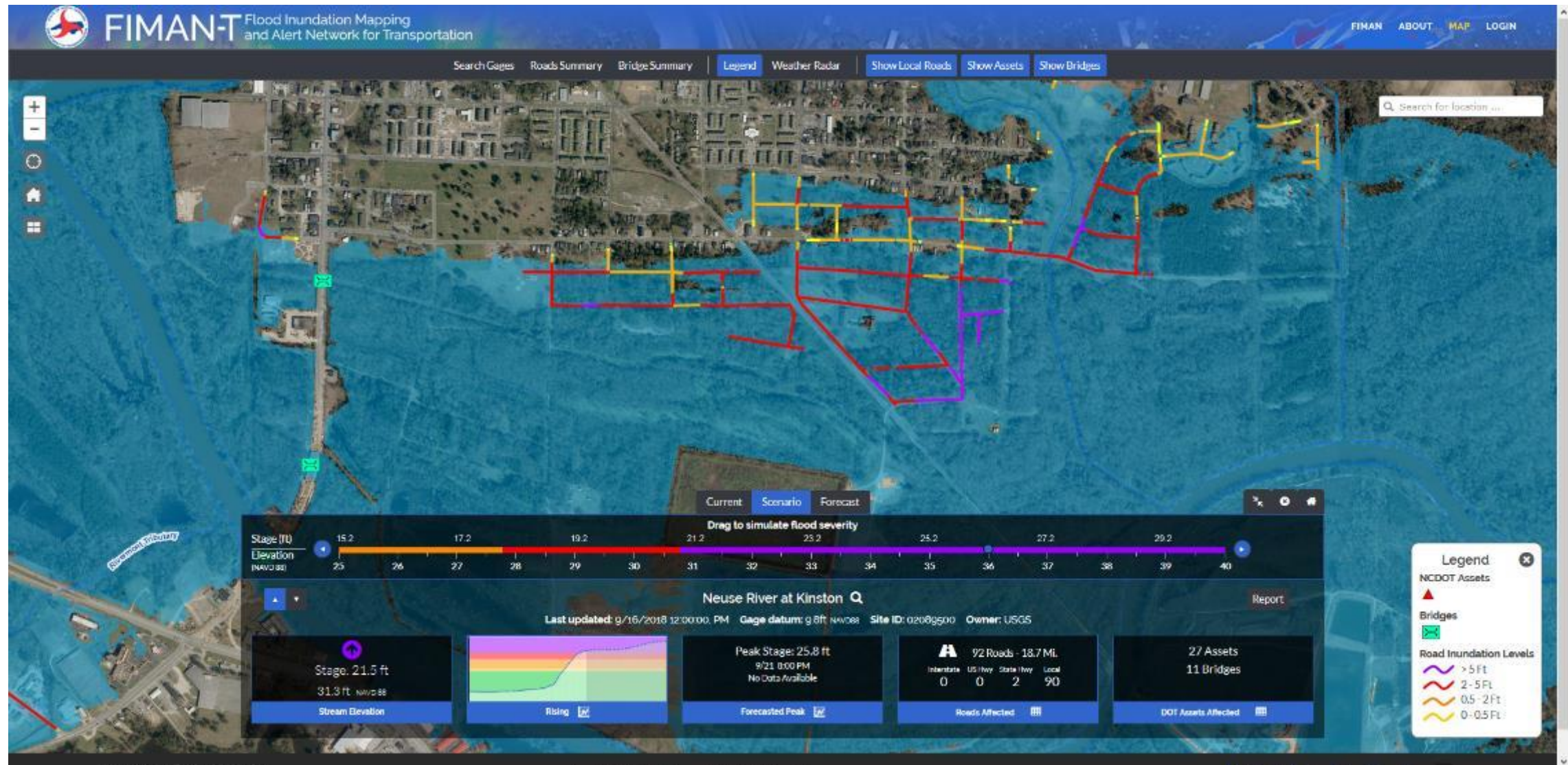
Scenario: Kinston (34-ft)



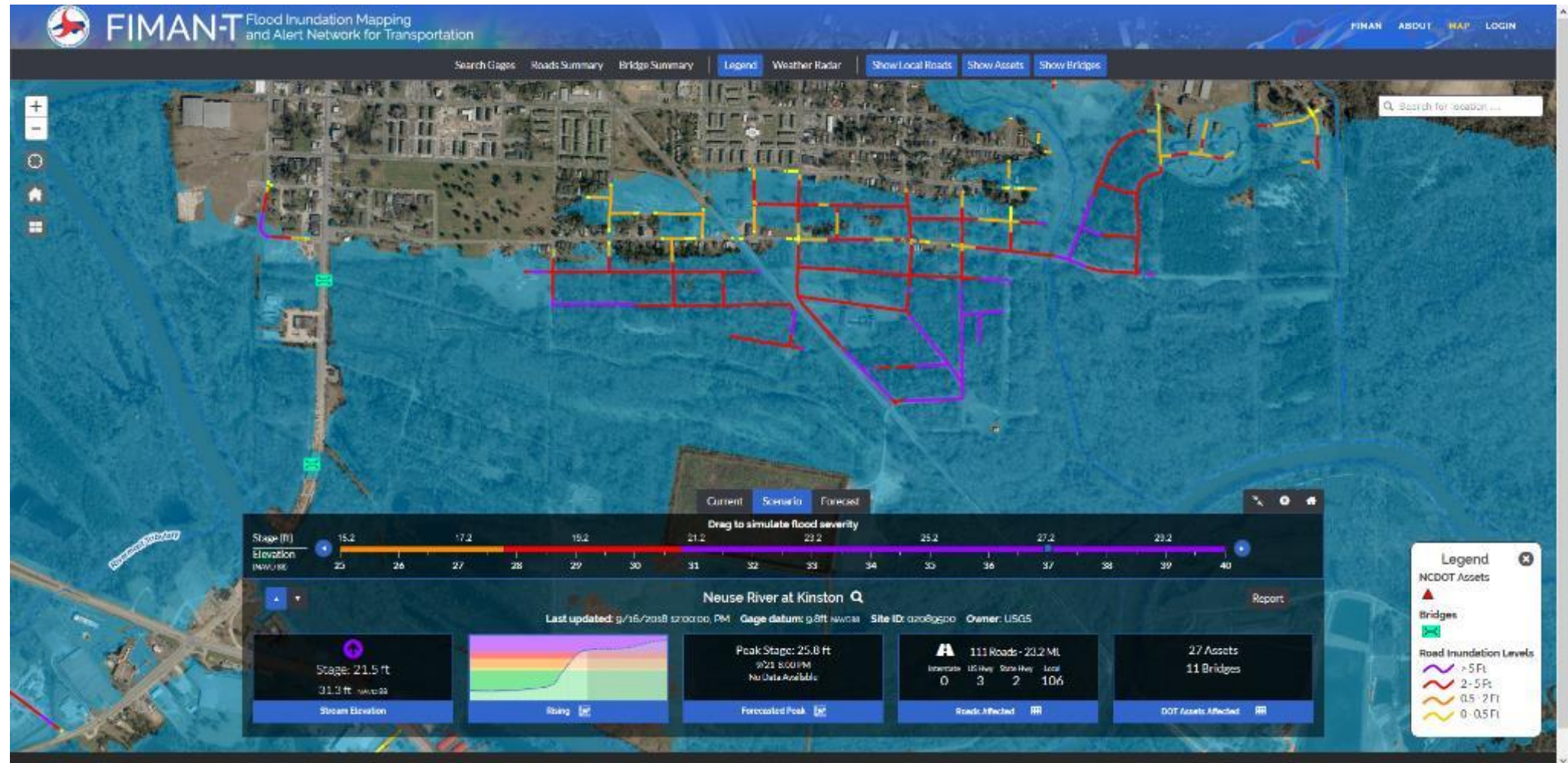
Scenario: Kinston (35-ft)



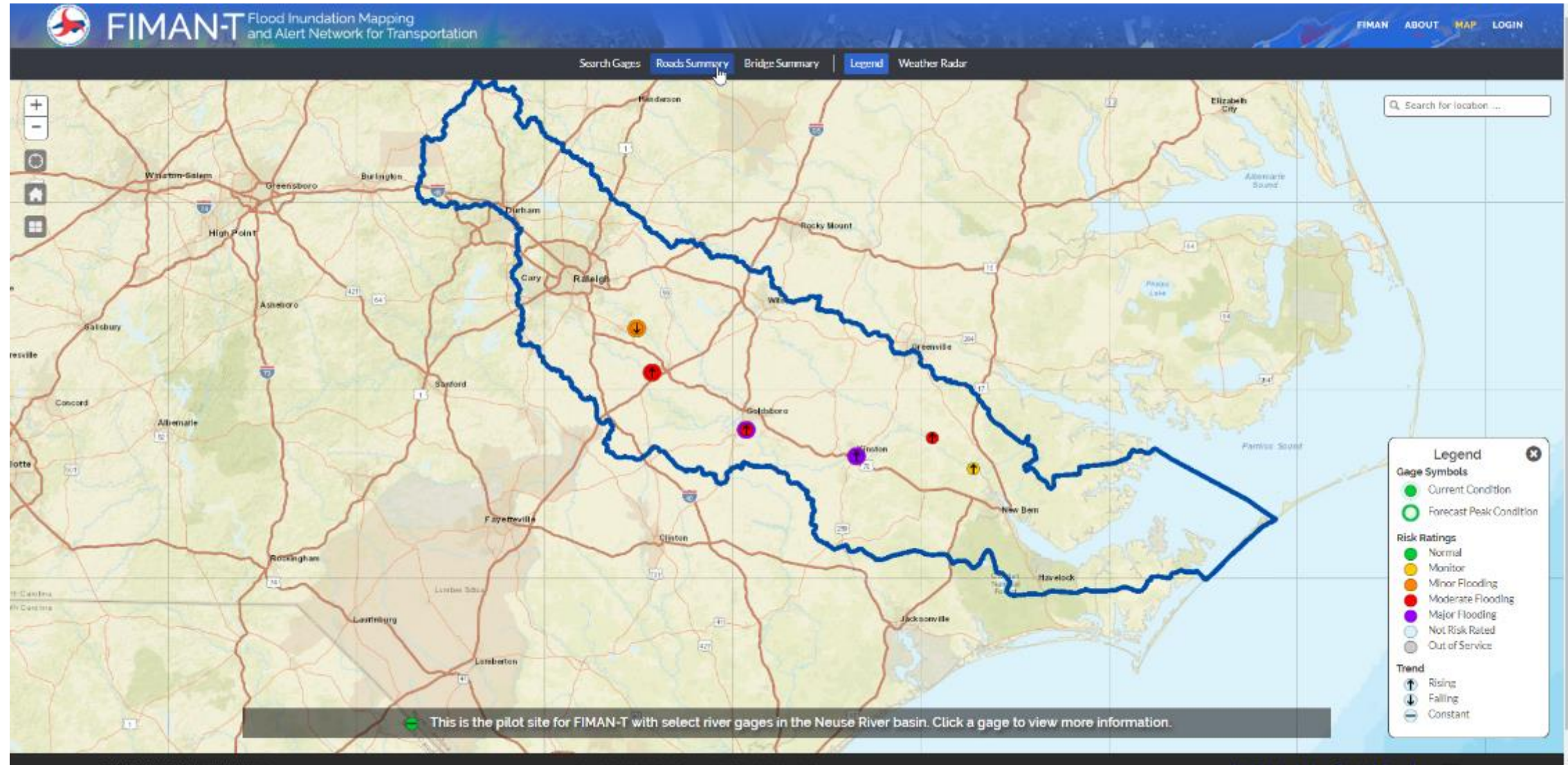
Scenario: Kinston (36-ft)



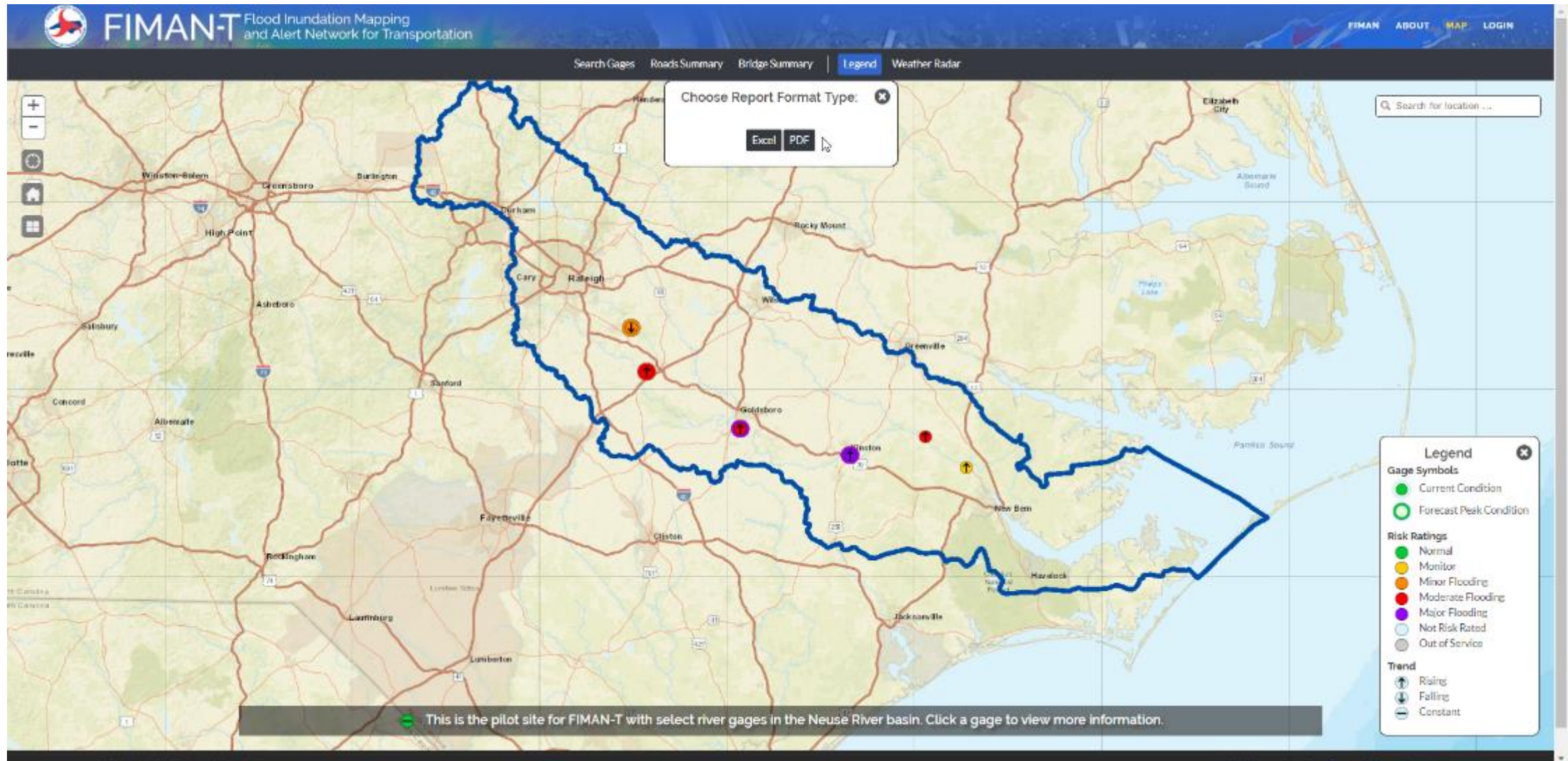
Scenario: Kinston (37-ft)



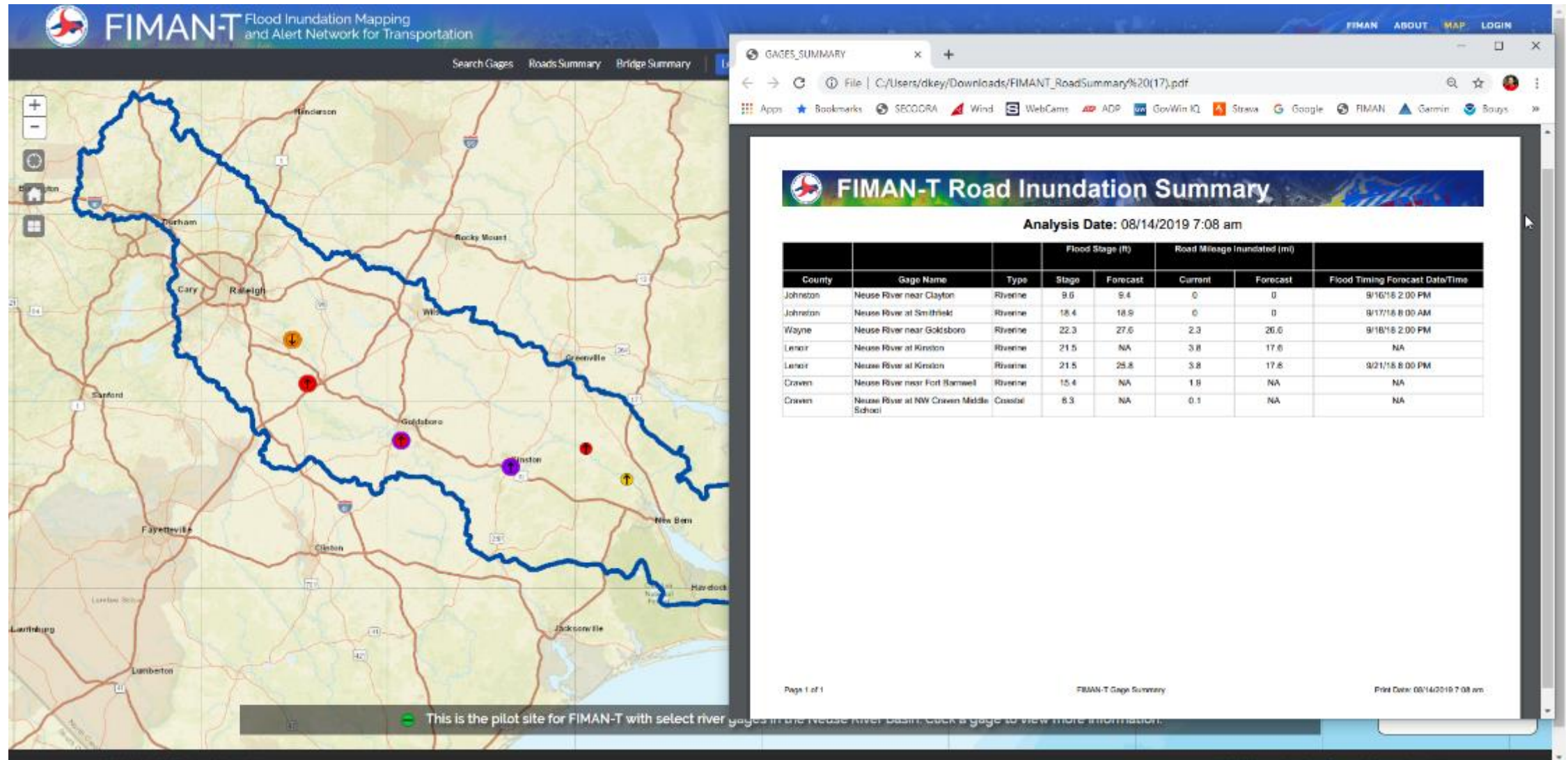
Systemwide Reports: Road Inundation Summary



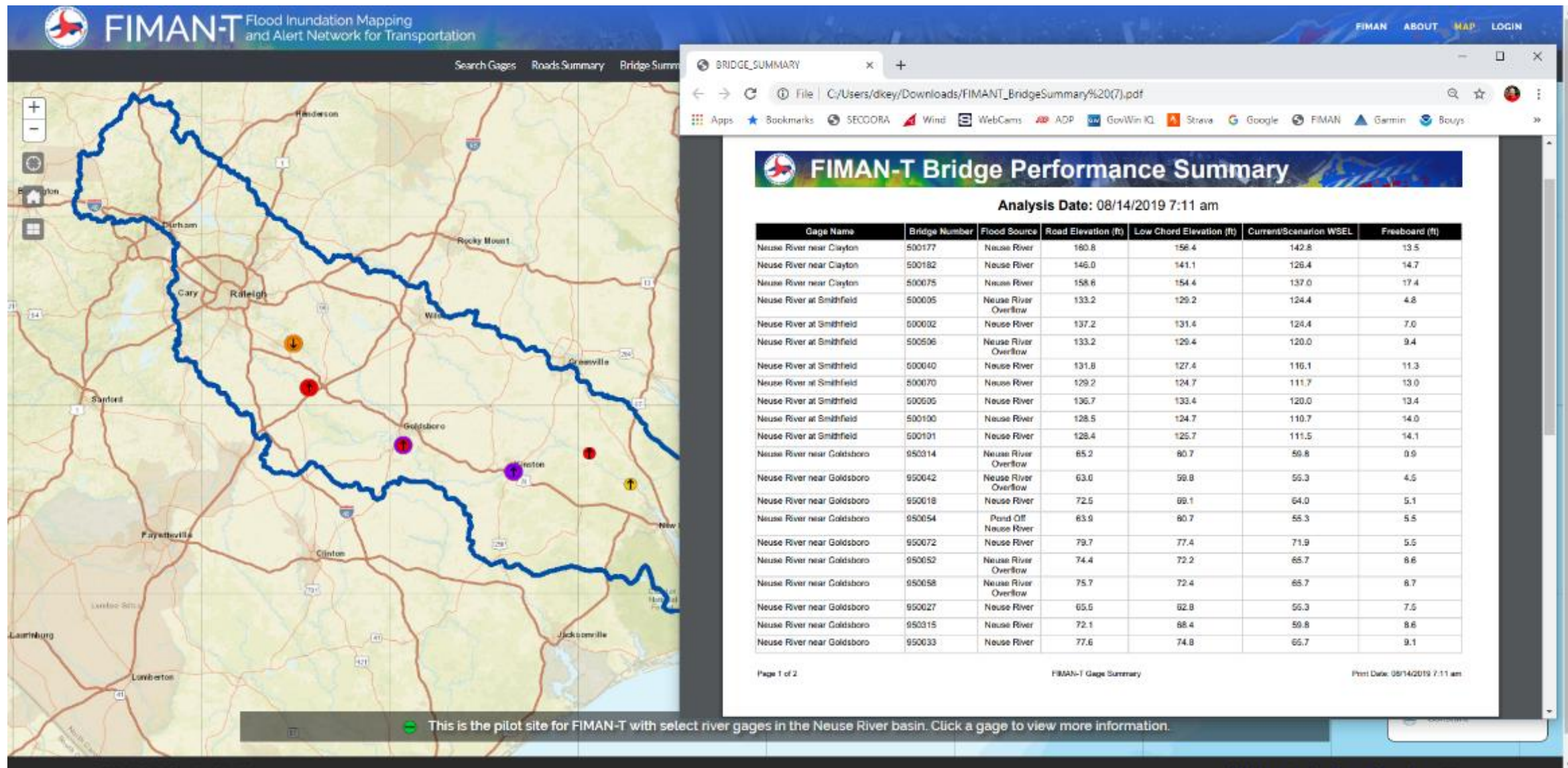
Systemwide Reports: Road Inundation Summary



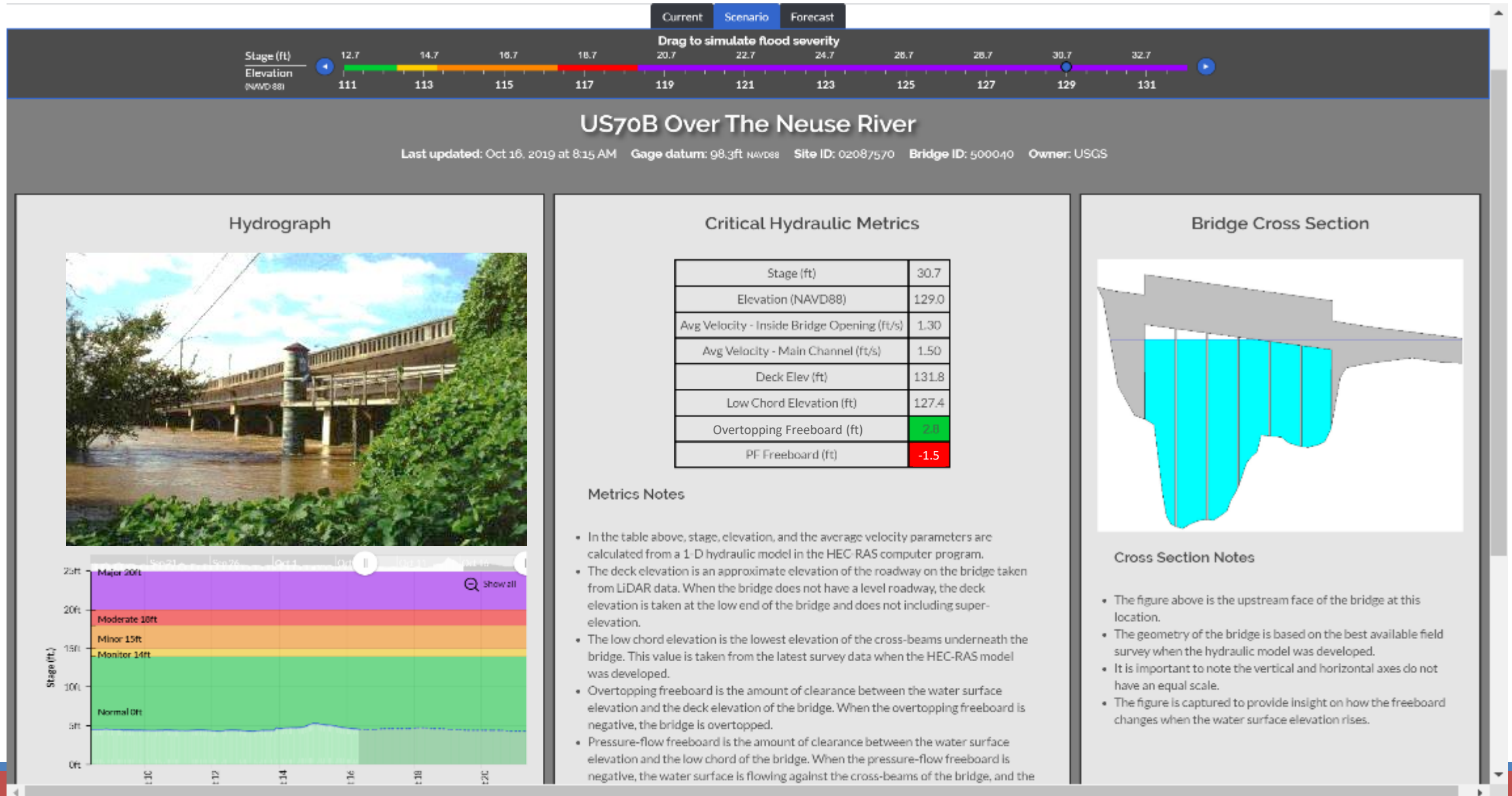
Systemwide Reports: Road Inundation Summary



Systemwide Reports: Bridge Performance Summary

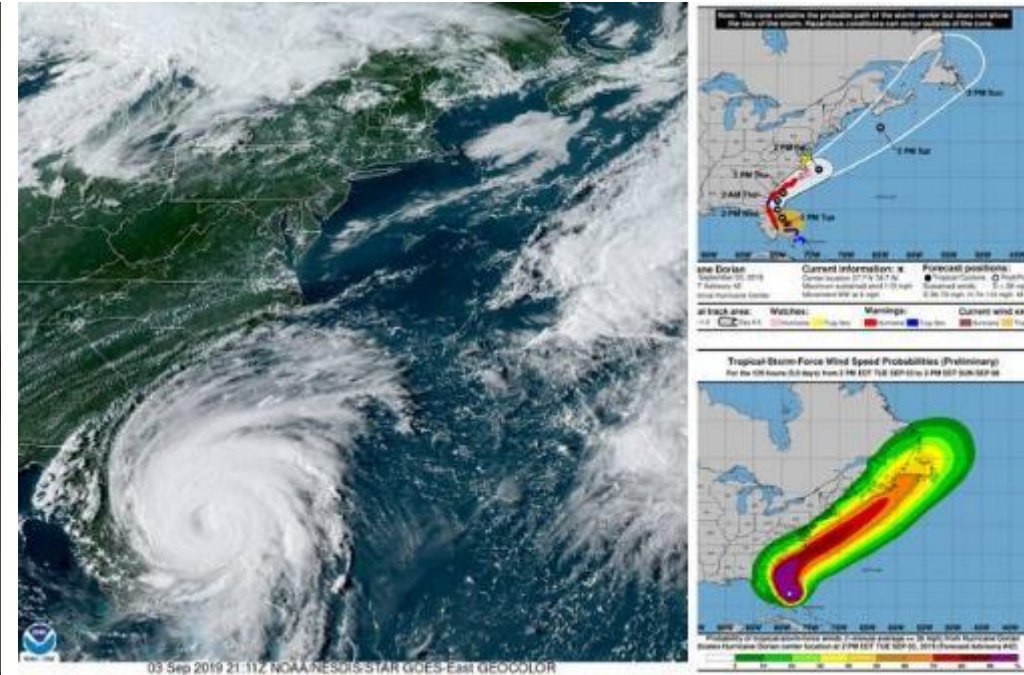


Bridge hydraulic performance dashboards

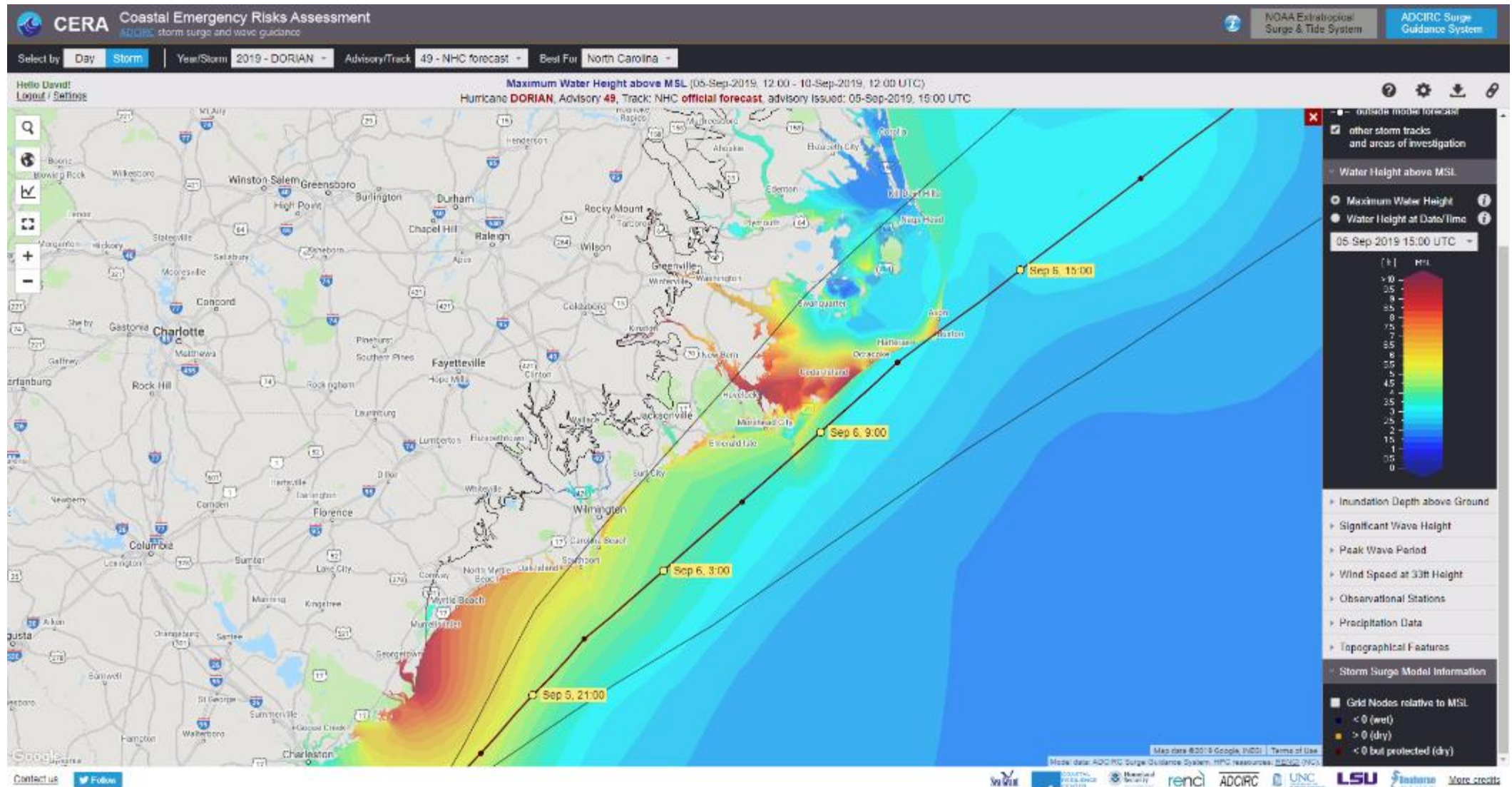


Hurricane Dorian

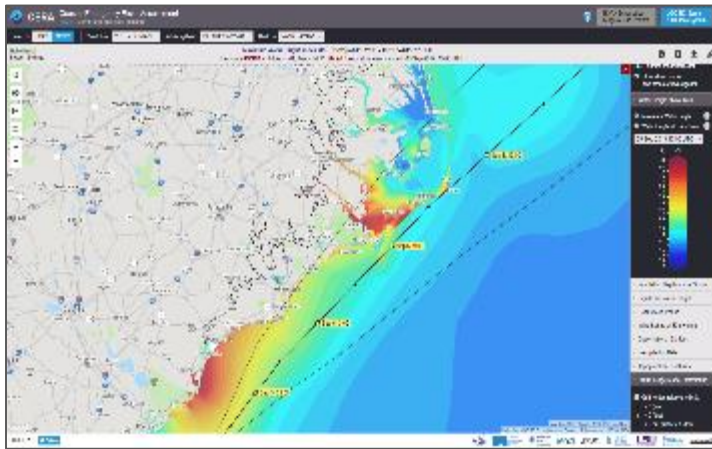
September 2019



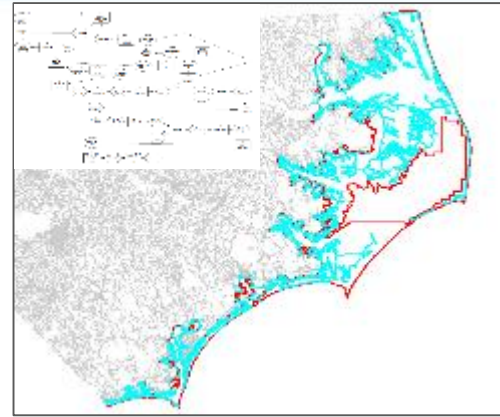
CERA: ADCIRC Modeling



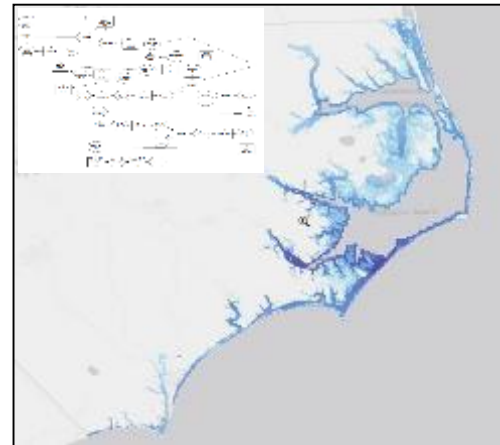
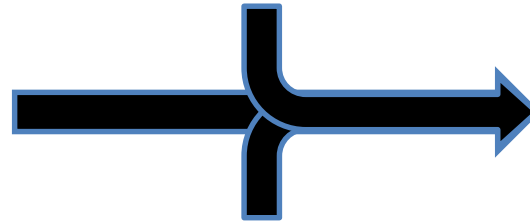
Every 6 Hours



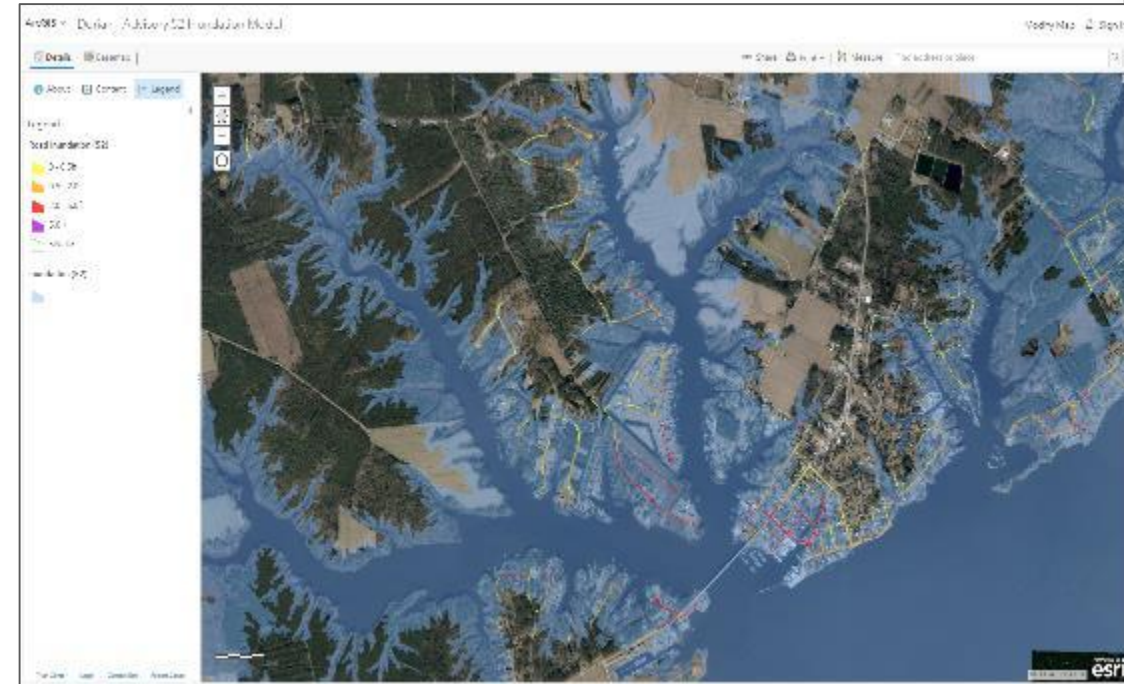
SURGE Modeling from CERA



Statewide 3D Road Raster QL1

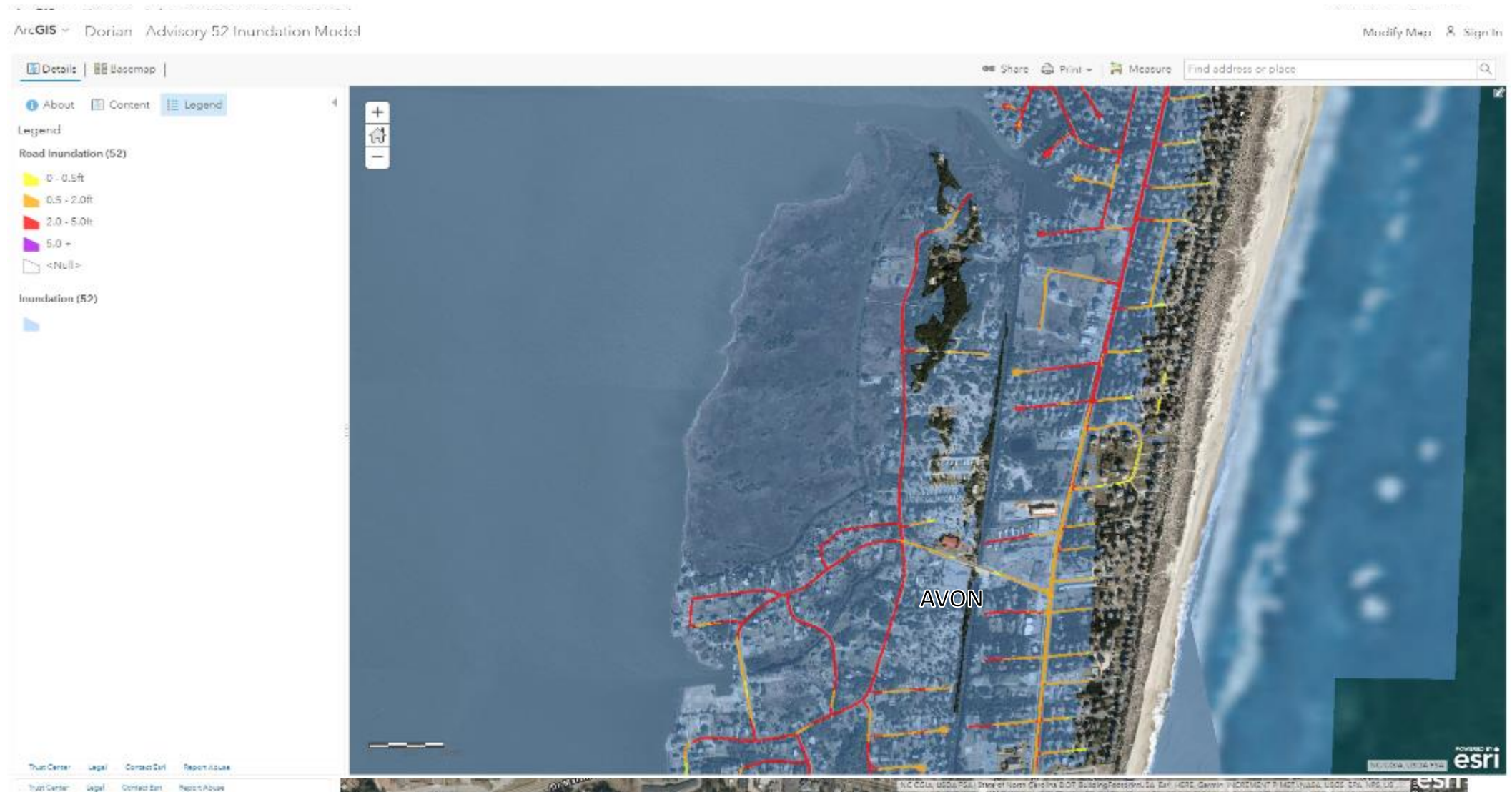


Event-wide Surge Depth Raster



AGOL Site For NCDOT / NCEM Showing Real Time Surge Inundation, Road and Building Flooding

AGOL Site For NCDOT Response



BridgeWatch



General File

681 Ticket Details Ticket

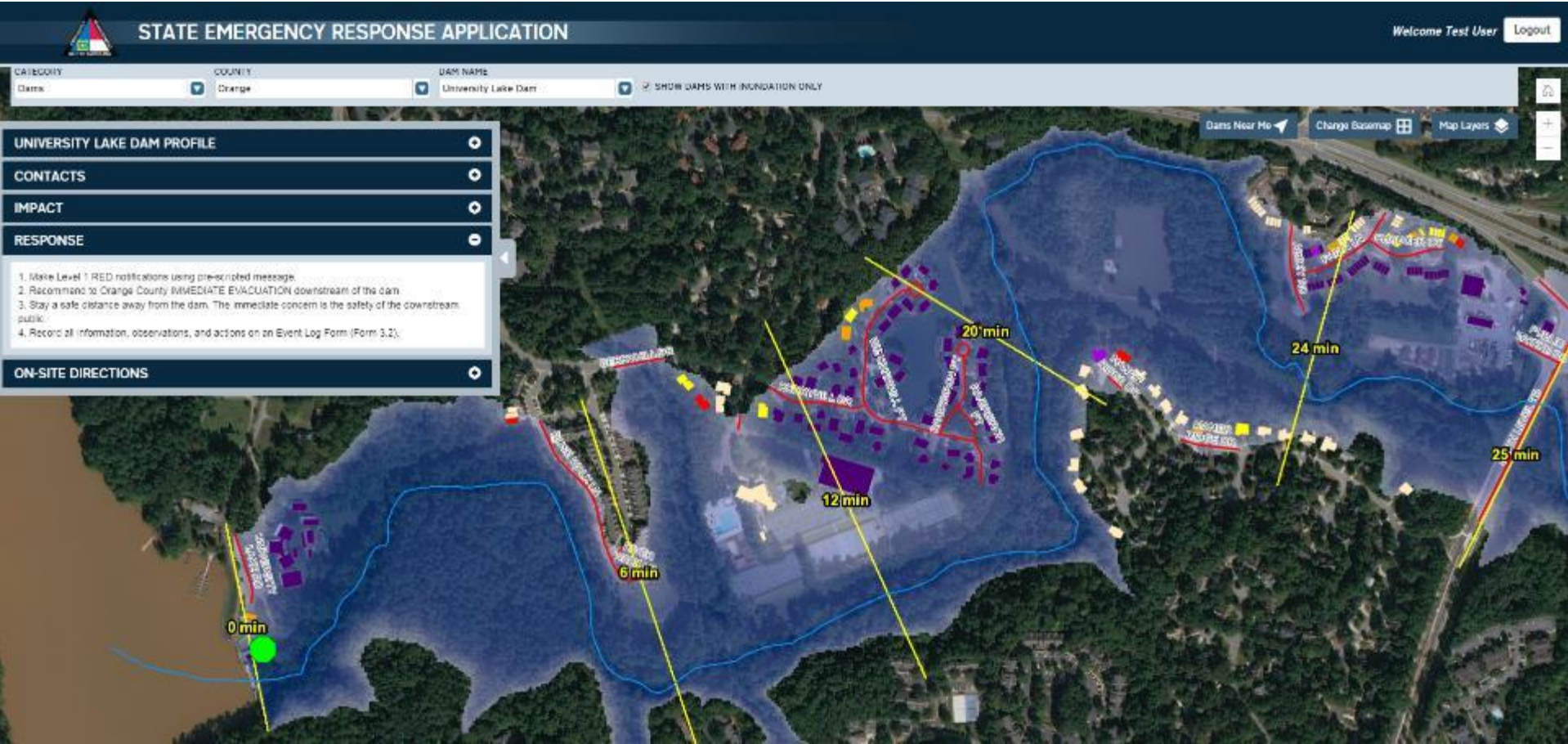
Ticket 2

Subject:	Narrow Gauge Iron Piers	Recipients:	
Priority:	High Priority	Status:	Active <input type="button" value="Close"/>
Type:	Maintenance	User:	DOMS@nc
Date Created:	Fri Jun 11 10:41:20 EDT 2010	Date Last Updated:	Fri Jun 11 10:41:20 EDT 2010
Structure:	32502	Initiated By:	ncdot@nc
Date Expires:	Wed Jun 16 2010 06:00:00 GMT	Reason Created:	

Content: inspection staff discovered broken stone and 12" diameter log rolling against the piers 1 and 2. Maintenance staff will remove before June 16th (no road) any additional damage at bridge



BridgeWatch and DamWatch Integration



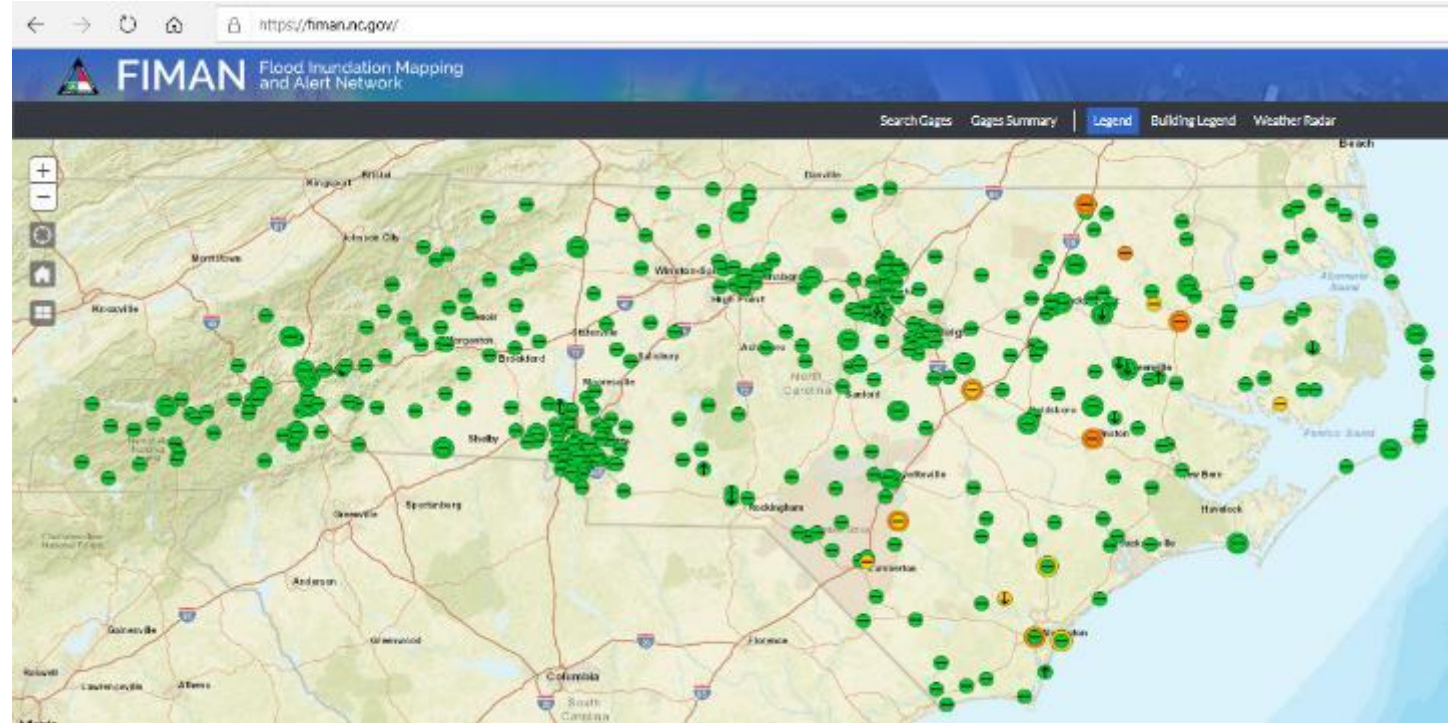
FIMAN Gage Update

- “Traditional” gaging stations consisted of:
 - Pressure Transducer measuring equipment with conduit
 - Data Logger
 - Radio Frequency or Satellite transmission of readings
- Latest gaging stations installed consist of:
 - Radar measuring equipment
 - Data Logger
 - Cellular transmission of readings
 - Weather Station (if desired)
- Gages can be placed on:
 - Bridges
 - Multiple combinations of installation methods depending on bridge characteristics
 - Culvert Headwalls
 - Poles/Piers



FIMAN Gage Update

- 398 Currently Active Gages
 - 277 USGS Sites
 - 90 NCEM Sites
 - 82 located on NCDOT Structures
 - 7 NOAA Sites
 - 6 NCDOT Sites
 - 18 “Other”



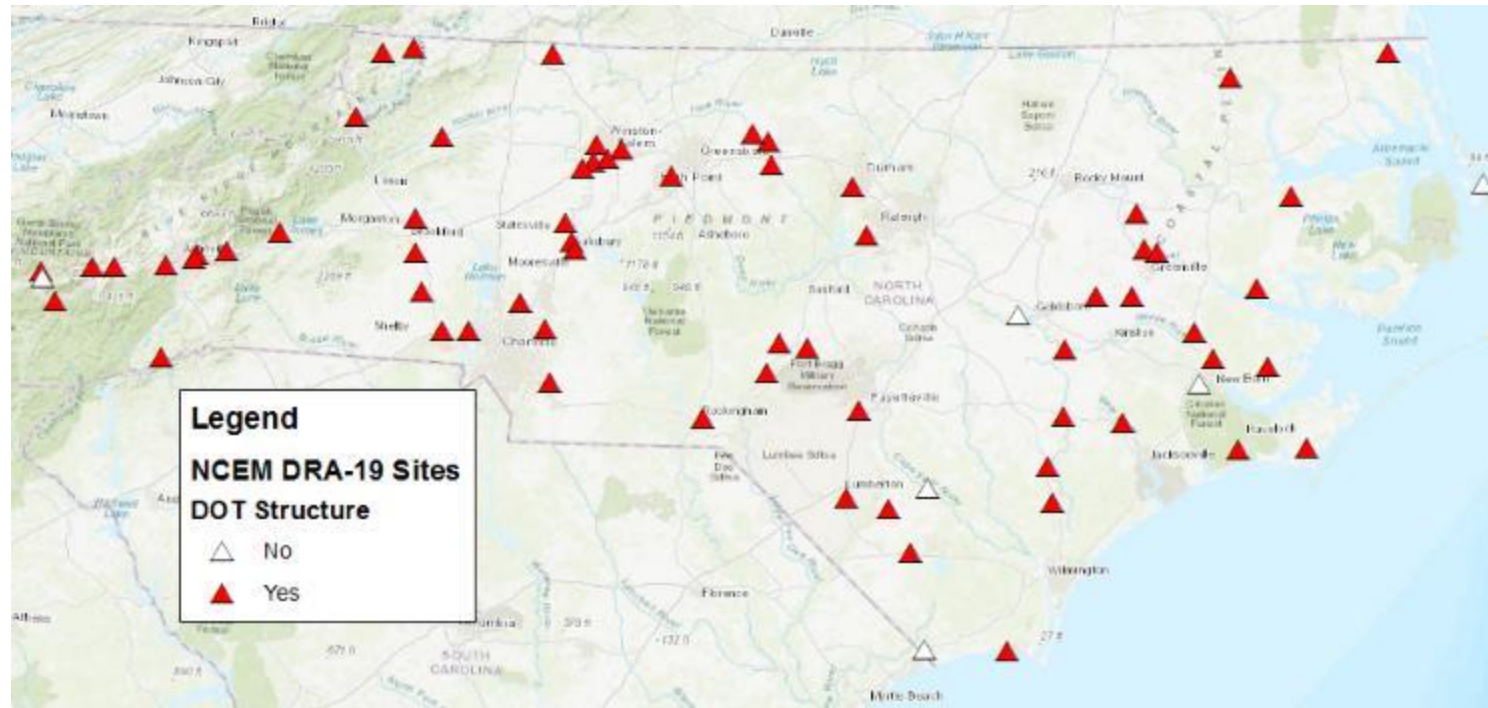
FIMAN Gage Update

- Recently Installed Gages (Post Florence)
 - NCEM installed 40 new sites in 2019 with DRA-18 funding
 - NCEM installed 9 new sites in 2019 with EMPG-18 funding
 - NCDOT installed 6 new sites in 2019



FIMAN Gage Update

- New Gage Planning
 - NCEM targeting 71 new installations beginning in 2020



on Build-Grant

- NCDOT initially targeting 10 build-grant bridge sites for new gage installations

Route Number	Political Area	Bridge ID
SR1002	WILKES	960663
SR1745	WILKES	960166
SR1595	IREDELL	480166
SR1404	EDGEcombe	320004
SR1127	BEAUFORT	060072
SR1325	YADKIN	980189
SR1203	NORTHAMPTON	650093
SR1313	NORTHAMPTON	650052
SR1514	PITT	730109
SR 1616	EDGEcombe	320035

FIMAN-T: Planned Next Steps

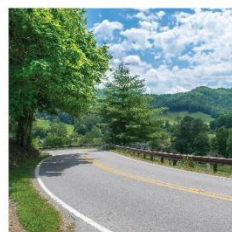
- Test Server to Production Server
- Phase 2 FIMAN-T Development
 - Gage Installations
 - Multi-Modal Assets
 - Division Dashboards
 - Training
 - Event Integration
- FIMAN-T Coastal Surge Module
- Dam Watch Integration with EM and DEQ
- Future Event Research

Thank You!





NORTH CAROLINA
Department of Transportation



NCDOT Board of Transportation

Remnant/Residue Properties: A Brief History and Current Status

Presented by:

Heather Fulghum, NCDOT Manager of Right of Way

March 4, 2020

Why does NCDOT acquire residues?

The 5th and 14th Amendments to the United States Constitution require that the government pay just compensation for the taking of private property for a public use.

- The 5th Amendment to the United States Constitution provides that private property shall not be taken for public use without just compensation.
- A physical remnant is created “when the remainder of a condemned property,” or a property being acquiring by a condemning authority, “is left in such a condition that it will be of little value to the owner.” 2A Nichols on Eminent Domain § 7.06(6)(b)(ii).
- Under Section 301(9) of the Uniform Act of 1970 gave the head of the federal agency responsible for acquiring the condemned property the authority to acquire an uneconomic remnant: *If the acquisition of only part of a property would leave its owner with an uneconomic remnant, the head of the federal agency concerned shall offer to acquire the whole property.*

North Carolina Statutes: Uneconomic Remnants and Residue Property

- Chapter 136 of the North Carolina General Statutes define the terms “uneconomic remnant,” “residue property,” and “residue property value” in Section 19.7.
 - The term “uneconomic remnant” is defined as real property “that was located outside of a proposed right-of-way prior to acquisition, determined to have nominal or no value to the owner after a Department acquisition pursuant to G.S. 136-19.” N.C.G.S. § 136-19.7(c)(9).
- N.C.G.S. § 136-19.7 details the statutory guidelines for residue property disposal by the Department.

How does NCDOT acquire residues?

- The Department of Transportation is obligated to make an offer to purchase all uneconomic remnants. Uneconomic remnants can be purchased only with the consent of the owner and cannot be condemned.
- The Department appraises a parcel for its value to be acquired as part of the highway project and for any impacts to remaining land outside of what is needed for the highway project.
- Factors to be considered in determining that a remainder is an uneconomic remnant include the size or shape of the remainder, control of access as it may affect the remainder, cuts and fills as they may affect access to a remainder, the economic effect on a business operation, the effects on a farming operation, loss of water/sewer, and the effect on residential and all other types of property due to right-of-way acquisition. The utility or value to the owner must be considered as well as its appraised value. In some cases, a remainder having a substantial value could be considered an uneconomic remnant depending upon its utility or value to the owner.

EXAMPLE OF APPRAISED RESIDUE DETERMINATION

4. Land Areas:	AREA LT.OF R/W	AREA IN R/W	AREA RT. OF R/W	TOTAL
	0.000 Ac.	0.875 Ac.	0.046 Ac.	0.921 Ac.
5. Less: Land Area in Existing R/W:	0.000 Ac.	0.000 Ac.	0.000 Ac.	0.000 Ac.
6. Appraise Net Areas	0.000 Ac.	0.875 Ac.	0.046 Ac.	0.921 Ac.

7. Easements: TCE: N/A DRAINAGE: Perm N/A Temp N/A
 PUE: N/A OTHER: N/A

8. Improvements Lt. of R/W	Improvements to be Acquired	Improvements Rt. of R/W
None	1 SFD w/Attached Garage	None
	Detached Single Car Garage/Workshop	
	Driveway/Fencing/Landscaping	

9. Rights and Interests to be Appraised: **Unencumbered Fee Simple Interest**
 (Subject to Existing Easements and Restrictions as Affected by Highway Acquisition.)

10. Estimated "MARKET VALUE" of Property Immediately Before:

Land \$ 37,500
 Improvements \$ 231,000
TOTAL \$ 268,500

11. Estimated "MARKET VALUE" of Property Immediately After:

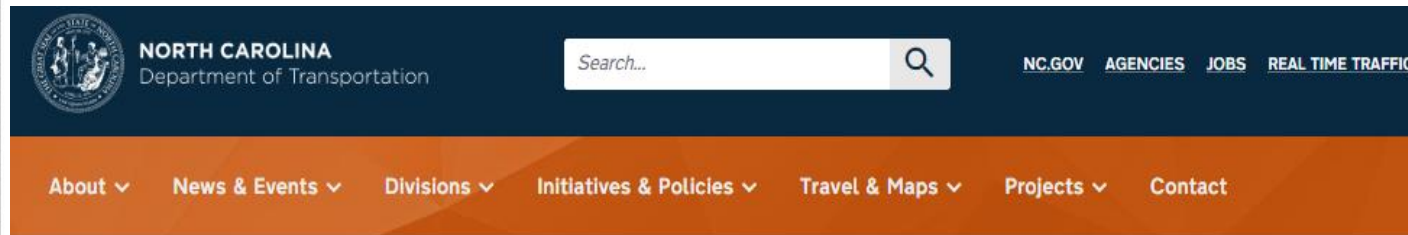
Land \$ 100
 Improvements \$ 0
TOTAL \$ 100

12. "DIFFERENCE" Between Before and After Value (If Benefited, Type "BENEFITS") \$ 268,400

History of Residue Disposal by NCDOT & H.B. 501

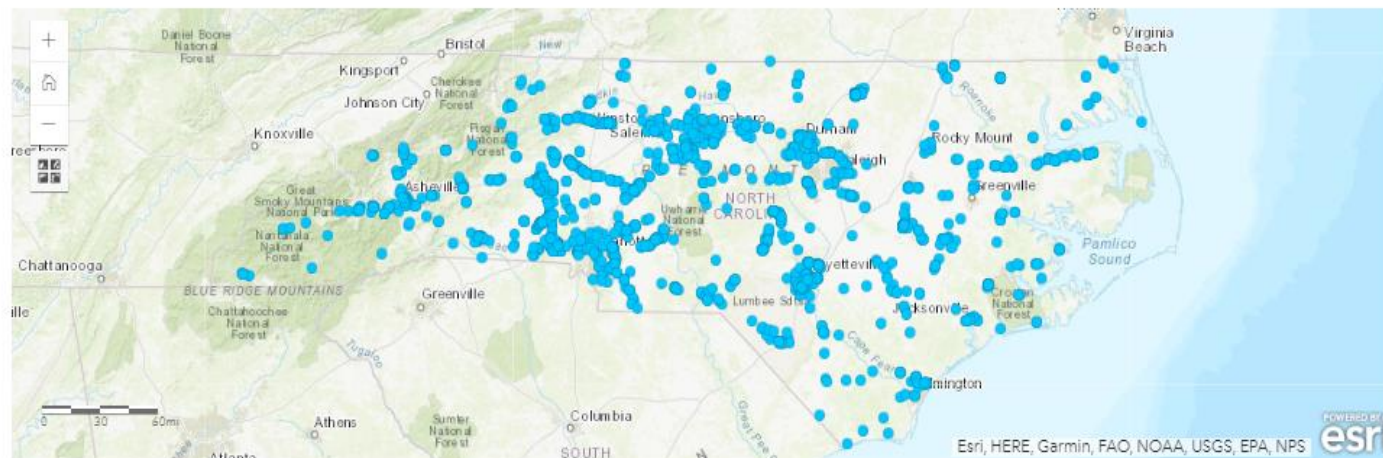
- In North Carolina, prior to the passage of H.B. 501 (June 30, 2017, effective October 1, 2017), disposal of residue properties was traditionally governed by statutory and regulatory parameters (G.S. § 136-19.7; NCAC 19A.0143 (repealed) and NCAC 19A.0144 (repealed), along with internal DOT policies and procedures set forth in the ROW Manual providing for the public sale of residue properties, with certain exceptions to public sale consistent with state and federal law as to exceptions (i.e.: exchange on same project for displacees, transfer to other public entities, etc.).
- Upon the passage by the General Assembly of H.B. 501 in 2017, the legislature mandated DOT dispose of residue property “as expeditiously as possible,” along with inclusion of traditional exceptions to disposal mandates.

DOT Residue: ArcGIS Website



Home » About Us » How We Operate » Do Business With Us » Right of Way Remnant Property

Right of Way Remnant Property



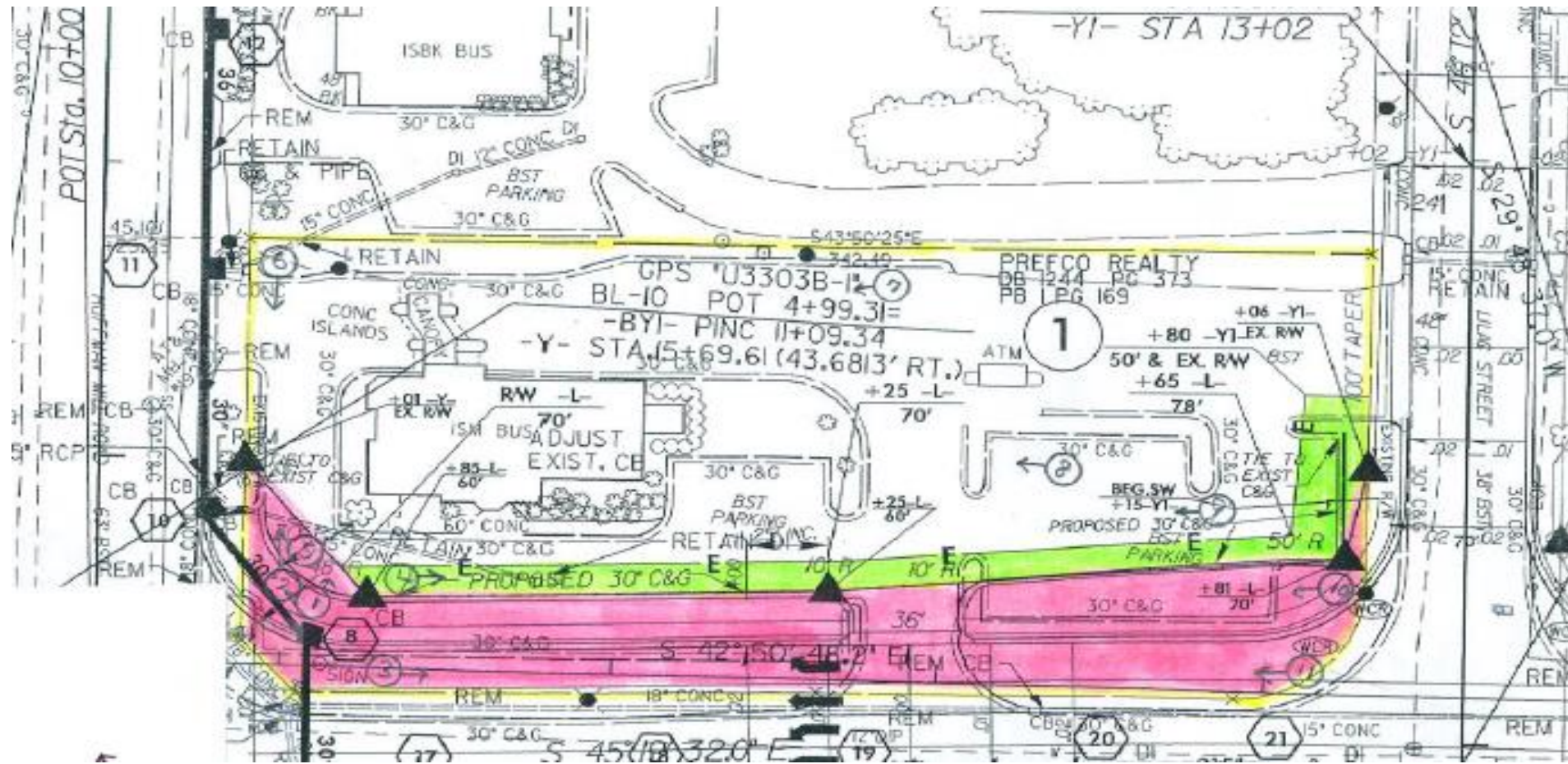
Showing 1 to 25 of 1,657 entries

ID	Contact	County	Class	Acres	Map
1	Division 05	Vance	C	0.14	Map
2	Division 05	Vance	B	0.46	Map
3	Division 05	Vance	B	2.11	Map
4	Division 05	Vance	B		Map
51	Division 06	Columbus	A	0.86	Map
52	Division 06	Columbus	A	0.12	Map
68	Division 06	Cumberland	A	0.83	Map
95	Division 06	Robeson	A	2.05	Map
169	Division 11	Ashe	A	17.094	Map
211	Division 01	Tyrrell	B	5.57	Map
426	Division 06	Cumberland	B	0.14	Map
465	Division 06	Robeson	B	0.42	Map
468	Division 06	Robeson	B	45.8	Map
593	Division 09	Davidson	A	1.367	Map
596	Division 09	Davidson	B	0.195	Map
663	Division 10	Cabarrus	B	0.853	Map
889	Division 10	Union	B	1.085	Map
892	Division 10	Union	C	0.044	Map
895	Division 10	Union	B	1.2	Map
1036	Division 12	Gaston	A	6.99	Map
1045	Division 12	Iredell	A	0.48	Map

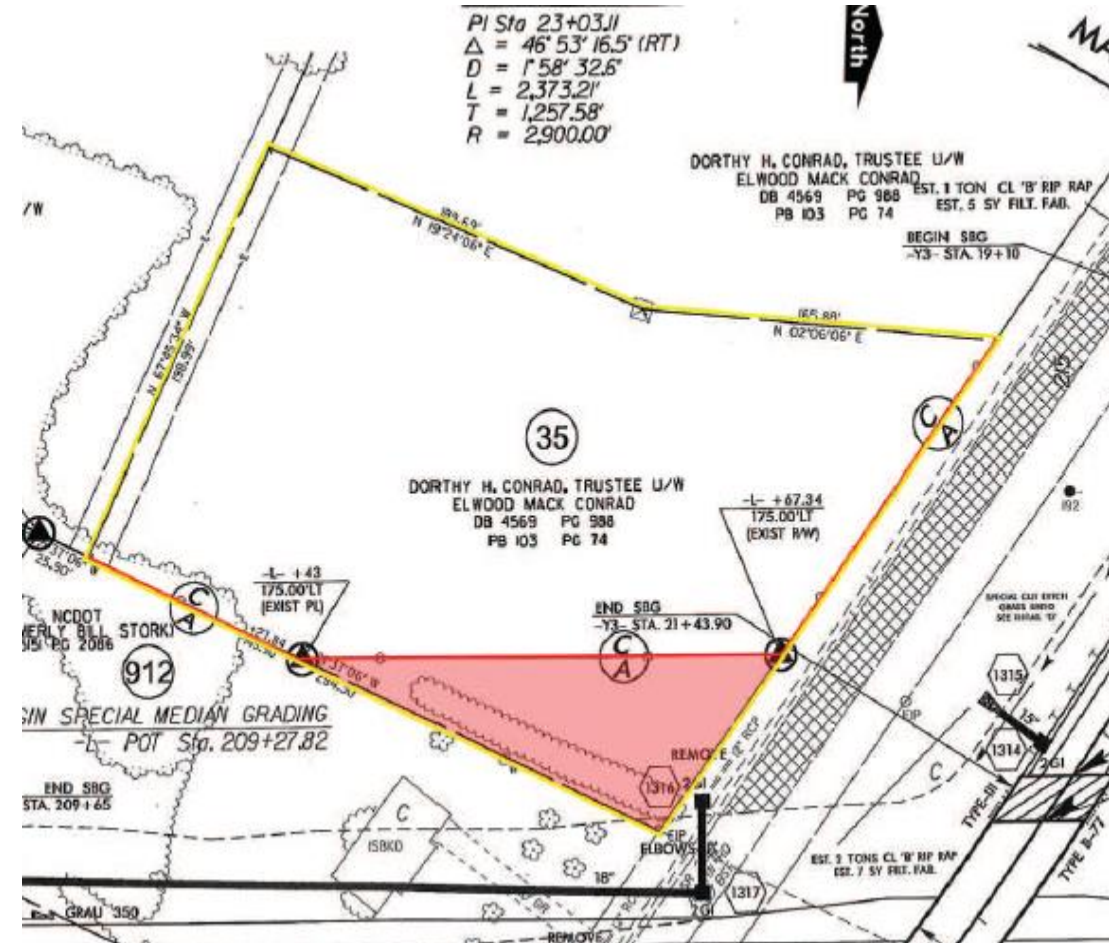
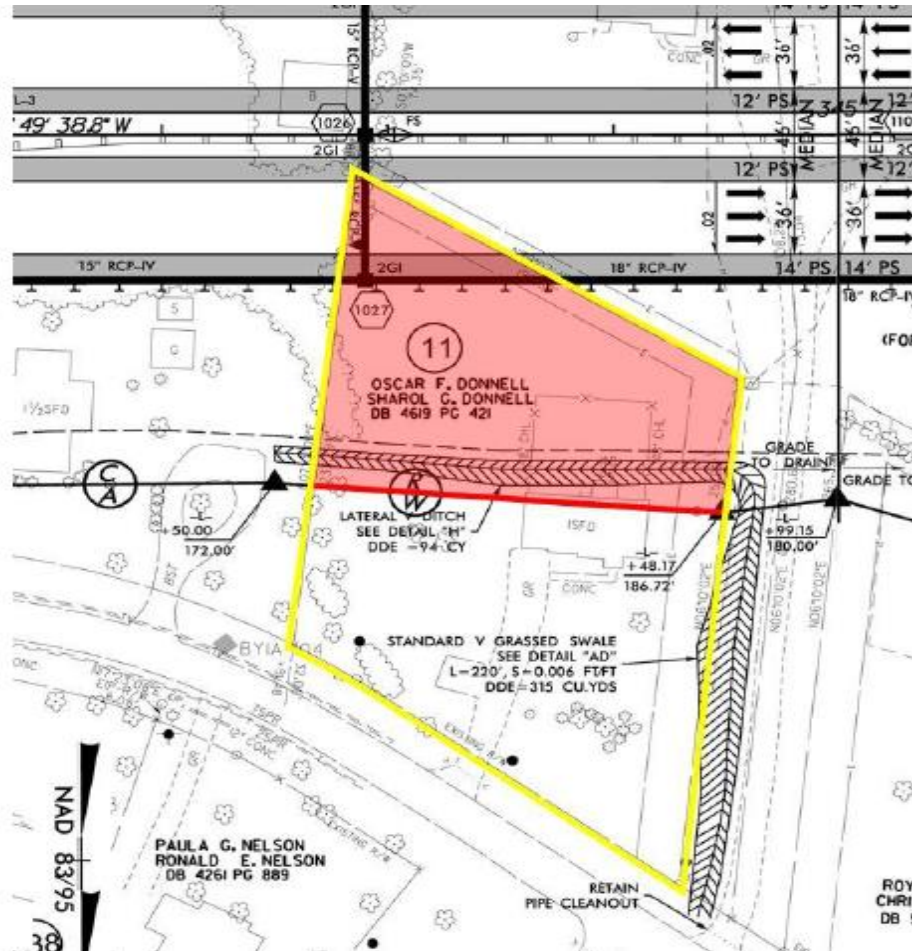
H.B. 501 (cont.)

- This proactive disposal process includes classification of properties based on developability, viable purchasers, physical characteristics of the property, and access upon completion of the project as:
 - **Class A** (property of sufficient size and with sufficient access to allow commercial or residential development);
 - **Class B** (property that enhances the value to adjacent property owners by allowing more extensive use when joined thereto);
 - **Class C** (property that, due to size or access, is only of value to adjacent property owners, or that is of minimal or no value);
 - or **Class D** (property that has not yet been classified or may be needed by the DOT for future use).

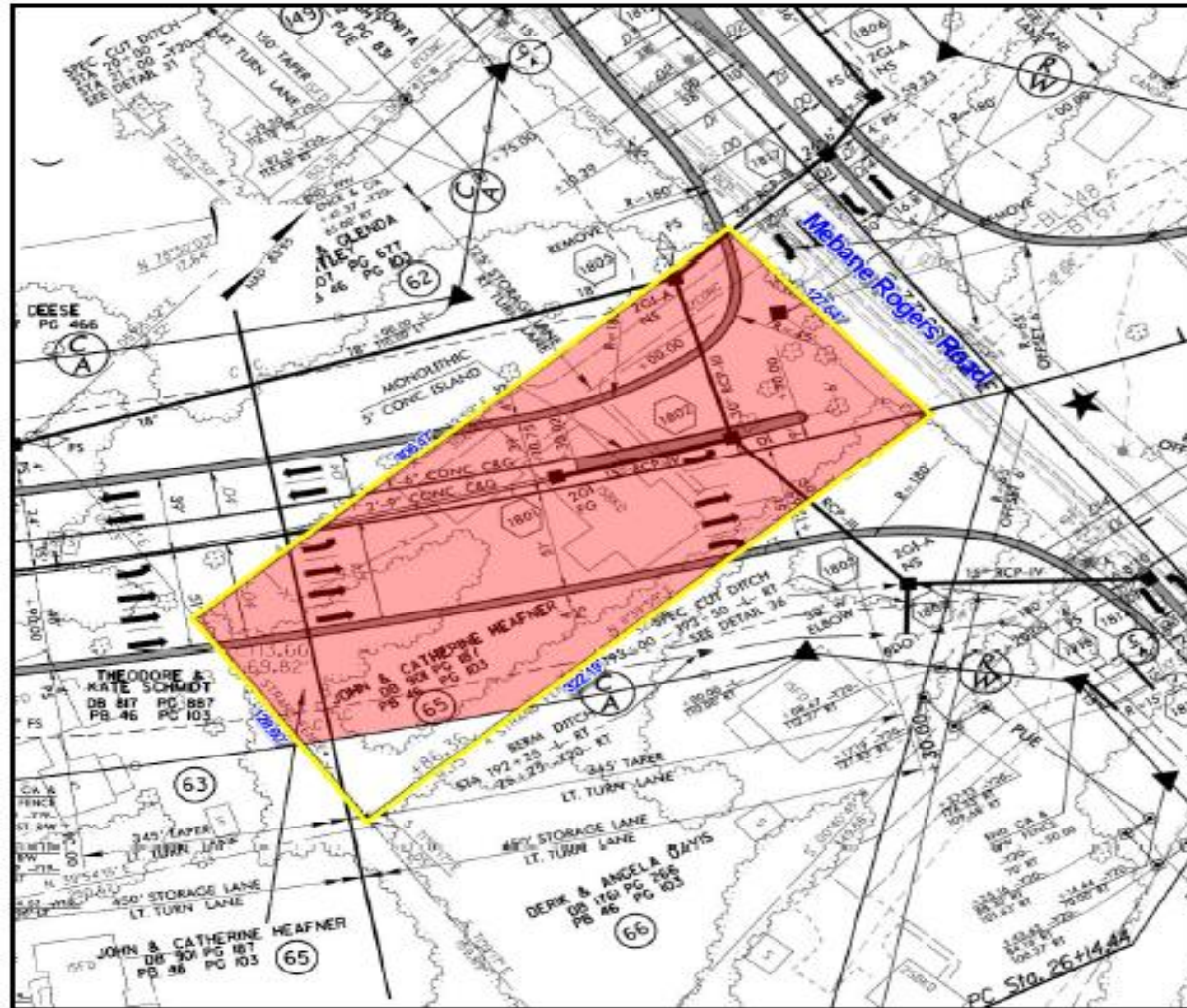
Residue Class "A"



Residue Class “B”



Residue Class “C”



H.B. 501 (cont.)

- H.B. 501 also mandated a “Pilot Program to Reduce Inventory of DOT Residue Property,” which required:
 - Selection of three (3) real estate brokers and three (3) real estate auctioneers (or auction firms) to dispose of a representative sample of residue properties, to consist of:
 - At least 15 Class A properties;
 - 30 Class B properties; and
 - 45 Class C properties.
 - The Pilot Program must run in two (2) phases of 180 days, with room for flexibility in the class of properties offered in each phase by DOT based on residue availability.
- Specific requirements for methods of disposition of each class of property are detailed with mandatory legislative reporting deadlines to the Joint Legislative Transportation Oversight Committee on the results of each Pilot Program period.

Pilot Program I

General Information:

- Commenced 1/22/18; ended 7/22/18
- A total of 4 realtor/auctioneers were selected to offer listings in 5 counties (Catawba, Guilford, Mecklenburg, Wake & Wayne), which were selected from eight (8) total LOIs submitted to DOT.

Totals:

- 106 total parcels were offered for sale/auction, totaling 245.471 acres.
- The total appraised/established value for all offered residues was \$1,114,262.50.
- Total costs:
 - Appraisals = \$55,850.00 (\$30,000.00 for properties sold; \$25,800.00 for unsold properties)
 - Surveys = \$14,570.00 (\$8,167.00 for properties sold; \$6,403.00 for unsold properties)
 - Commissions: \$122,500.23 (all sold)

Pilot Program I (cont.)

Sold Properties:

- 57 properties offered sold, totaling 169.74 acres (60% of total acres offered).
- Breakdown by Class:

Class A:	13	Class B:	26	Class C:	18
----------	----	----------	----	----------	----
- Total Value of Sold Residues: \$845,972.77

Class A:	\$602,007.90	Class B:	\$167,454.87	Class C:	\$75,610.00
----------	--------------	----------	--------------	----------	-------------
- Total Accepted Offers for Sales: \$995,790.00

Class A:	\$708,687.00	Class B:	\$196,831.45	Class C:	\$90,271.55
----------	--------------	----------	--------------	----------	-------------
- Total Costs for Sold Residues:

Appraisals:	\$30,000.00				
Class A:	\$28,500.00	Class B:	\$0.00	Class C:	\$1,500.00
Survey:	\$8,167.00 (all Class A)				
Commission:	\$110,600.23				
Class A:	\$70,012.10	Class B:	\$29,376.58	Class C:	\$13,161.55

Pilot Program I – Sales analysis

- Gross sales \$995,790.00 (117% over appraised values)
- Total fees \$148,767.23 (15% of gross sales)
- Net total sales \$847,022.77

- Average sale price per class:
 - A = \$54,514.38
 - B = \$7,570.44
 - C = \$5,015.09

- Commission fees per class:
 - A = 10%
 - B = 15%
 - C = 15%

Pilot Program II

General Information:

- Commenced 08/29/18; ended 02/28/19
- A total of 6 realtor/auctioneers were selected to offer listings in 17 counties (Alamance, Alexander, Beaufort, Cabarrus, Cumberland, Edgecombe, Guilford, Iredell, Johnston, Mecklenburg, Nash, Pamlico, Randolph, Rockingham, Stanley, Wayne & Wilson), which were selected from eight (8) total LOIs submitted to DOT.

Totals:

- 111 total parcels were offered for sale/auction, totaling 98.703 acres.
- The total appraised/established value for all offered residues was \$687,309.00
- Total costs:
 - Appraisals = \$41,000.00 (\$20,000.00 for properties sold; \$21,000.00 for unsold properties)
 - Surveys = \$52,616.00 (\$26,597.00 for properties sold; \$26,019.00 for unsold properties)
 - Commissions: \$67,805.72 (all sold)

Pilot Program II (cont.)

Sold Properties:

- 54 properties offered sold, totaling 67.498 acres (68% of total acres offered).
- Breakdown by Class:

Class A:	9	Class B:	20	Class C:	25
----------	---	----------	----	----------	----
- Total Value of Sold Residues: \$365,857.00

Class A:	\$296,000.00	Class B:	\$47,515.50	Class C:	\$22,341.50
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- Total Accepted Offers for Sales: \$343,670.83

Class A:	\$259,500.00	Class B:	\$61,406.00	Class C:	\$22,764.83
----------	--------------	----------	-------------	----------	-------------
- Total Costs for Sold Residues:

Appraisals:	\$20,000.00				
Class A:	\$16,000.00	Class B:	\$2,000.00	Class C:	\$2,000.00
Survey:	\$26,957.00 (\$26,019.00 for unsold properties)				
Commission:	\$67,805.72				
Class A:	\$25,240.00	Class B:	\$23,182.00	Class C:	\$19,383.72

Pilot Program II – Sales analysis

- Gross sales \$343,670.83 (94% of appraised values)
- Total fees \$140,781.72 (41% of gross sales)
- Net total sales \$202,889.01

- Average sale price per residue:
 - A = \$28,833.33
 - B = \$3,070.30
 - C = \$910.60

- Commission fees per class:
 - A = 10%
 - B = 38%
 - C = 85%

Accelerated Residue Disposal Project Phase

- Since the expiration of the Pilot Program, DOT has entered the Accelerated Residue Disposal Phase, with primary focus on Class B and Class C residue offerings. Available Class A residues will be added to the Class B and Class C offerings in March 2020.
- As the DOT continues to implement the requirements for residue disposal set forth in H.B. 501, ROW personnel have identified the following objectives they are working to implement to improve the residue disposal program. These include, but are not limited to:
 - Development and implementation of data tracking system to provide real-time information by class and county regarding the classification, status, size, value, and offers for residue parcels; profits and expenses; and other data relevant to the status of the project.
 - Increased project visibility through advertising to increase broker/auctioneer interest in participation in the program, along with improvements to advertising methods to expedite residue disposals and increase profits.

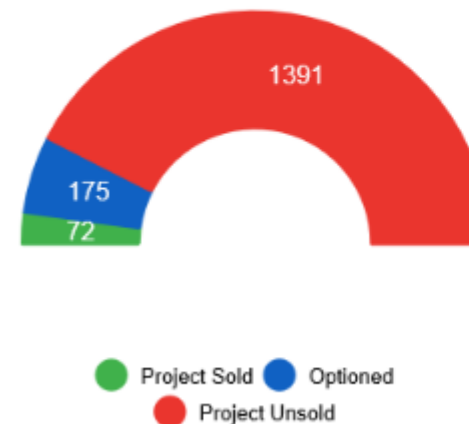
Current Accelerated Residue Project

SOLD RESIDUES: 72 (B & C Class only)
APPRAISED VALUE: \$153,080.00
GROSS SALES: \$147,385.00

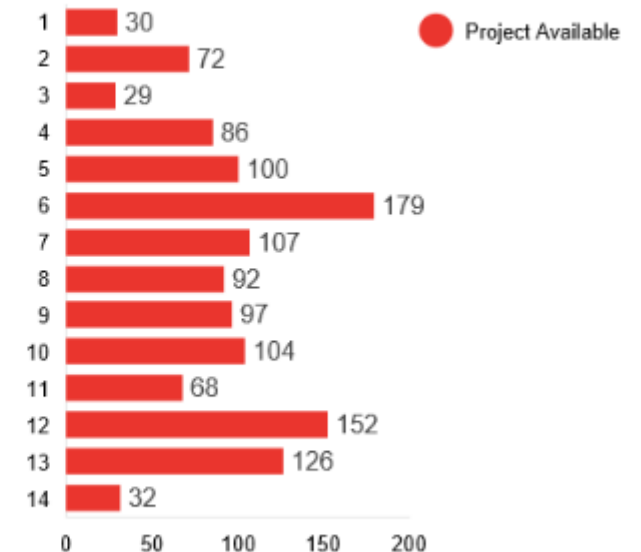
OPTIONED RESIDUES: 175 (B & C Class only)
APPRAISED VALUE: \$1,123,230.00
GROSS SALES: \$1,474,221.00

“A” CLASS RESIDUES ARE BEING PREPARED FOR SALE AND WILL BEGIN MARKETING IN MARCH 2020

Project Residues Sold/Unsold



Project Residues Available by Division



EXAMPLE

[HOME](#) [AUCTIONS](#) [PROPERTIES](#) [COMPANY](#) [SERVICES](#) [FAQ](#) [CONTACT US](#)

NCDOT Residue Real Estate

[View All Photos](#)

Overview **Description** Map Terms All Photos

NCDOT Residue Real Estate

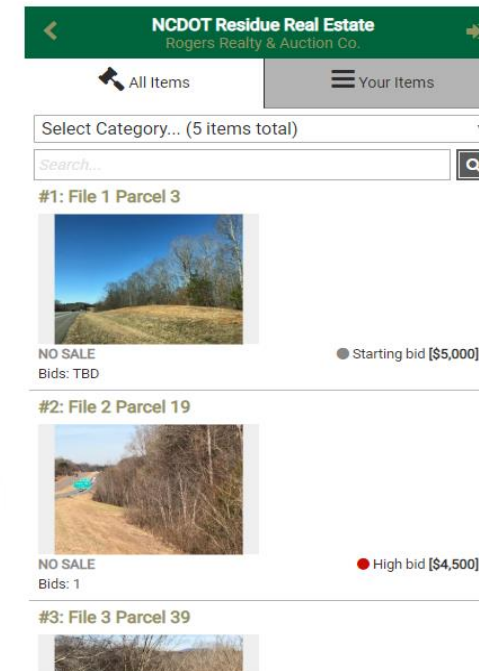
Online Bidding Begins Monday, March 12th at 8:00am

Online Bidding will end with a live auction held on Monday, March 19th at 1:00pm

The live auction will be conducted at the office of Rogers Realty & Auction Company, Inc.

1310 EMS Drive, Mount Airy, NC 27030

AUCTION



[Learn more](#)

First Name

Last Name

Email



Summary

- The Department will continue to sell residue properties through the Division offices where possible
- The Department will continue to dispose property through the HB 501 program until the end of legislated sales period and analyze results for development of best practices
- Use of Realtors/ Auction Houses:
 - Helps alleviate burden of disposal from the Department where resources are scarce
 - Creates a partnership with private firms whose expertise in property disposal expedites sales
 - Increases market exposure through private enterprise for our residues
- Disposal of residues of any class:
 - Alleviates the Department of further maintenance of unnecessary land for highway projects
 - Creates sales revenue for the Department
 - Restores property back into private hands for future development
 - Creates an increased tax based for the respective county

QUESTIONS?





MULTI-MODAL TRANSPORTATION COMMITTEE MEETING MINUTES

DATE: 10/02/2019 TIME: 3:50 PM LOCATION: EIC Room

MEETING CALLED BY	Chair Andy Perkins
BOARD ATTENDEES	Chair Andy Perkins, Valerie Jordan, Landon Zimmer, Billy Clarke, Nina Szlosberg-Landis, Tony Lathrop

AGENDA TOPICS

1. APPROVAL OF MEETING MINUTES - CHAIR PERKINS	
DISCUSSION SUMMARY	Chair Perkins stated that the meeting minutes were distributed prior to the meeting, and if there are no additions or corrections, the Chair would accept a motion that the minutes from the August 7, 2019 meeting be approved as submitted.
ACTIONS TAKEN	A motion was made by Board Member Jordan. It was seconded by Board Member Zimmer to approve the meeting minutes as distributed. The committee voted unanimously to approve the meeting minutes.

2. FUNDING ITEMS - (AVIATION, PTD)	
DISCUSSION SUMMARY	Information was presented by Public Transportation Division and Aviation Division Director.
ACTIONS TAKEN	<ul style="list-style-type: none">Motion to approve Public Transportation funding items was made by Vice Chairwoman Nina Szlosberg-Landis and seconded by Board Member Zimmer.Motion to approve Aviation funding items was made by Vice Chair Clarke and seconded by Board Member Jordan. <p>The Committee approved the funding items unanimously.</p>

3. MULTI-MODAL HIGHLIGHTS – JULIE WHITE, DEPUTY SECRETARY FOR MULTI-MODAL TRANSPORTATION	
DISCUSSION SUMMARY	<p>AV Transit shuttle on track for launch this fall. We will receive two Level 4 fully autonomous shuttles that seat 8-12 passengers each. We will initially launch them at NC State and ECU and then communities will be able to submit use cases for deployment in their community over the next two years.</p> <p>New Initiative for Modes – MODES Immersion Initiative –a weeklong immersion in the modes for incoming college freshman engineers. This summer we will send invitations to all 3,000 admitted NCSU engineering students to apply for approximately 20 slots. The goal is</p>



MULTI-MODAL TRANSPORTATION COMMITTEE MEETING MINUTES

	<p>to increase the pipeline of engineers into our modes and to expose future engineers to the multimodal context.</p> <p>Rail – Rail hosted an educational work session for local communities along the S-Line which is a CSX owned rail corridor that runs north/south from Hamlet (at the South Carolina line), through Raleigh north to Virginia. CSX has an interest in selling the corridor and the Rail Division is working with local communities to better understand the value and potential for the State.</p> <p>Ferry – Ocracoke continues to depend on the ferry system to help with their recovery. We continue to run a robust schedule of ferry service to the island.</p> <p>Aviation – Meeting with BCBS of NC to begin a discussion of using drones to deliver prescriptions in rural NC. Our special IPP permit from the FAA allows us to fly drones out of the line of sight and puts us in a unique position to advance pilot programs such as this.</p>
ACTIONS TAKEN	None Taken

MEETING ADJOURNED (TIME): 4:09 PM



MULTI-MODAL TRANSPORTATION COMMITTEE MEETING MINUTES

DATE: 02-05-2020 TIME: 10:33 LOCATION: EIC Room

MEETING CALLED BY	Vice-Chairman Billy Clarke
BOARD ATTENDEES	Vice-Chairman Billy Clarke, Thomas Taft, Jr., Landon Zimmer

AGENDA TOPICS

1. FUNDING ITEMS – (PTD, AVIATION AND RAIL)	
DISCUSSION SUMMARY	Information was presented by Public Transportation Division Director, Aviation Division Director and Rail Director
ACTIONS TAKEN	All funding items were recommended for approval by the Multi-Modal BOT Committee for PTD, Rail, and Aviation.

2. MULTI-MODAL HIGHLIGHTS – DAVID HOWARD	
DISCUSSION SUMMARY	<p>CASSI - our fully autonomous transit shuttle program, launched its first route at the Transportation Summit. It will be launching its second deployment on the NCSU Centennial Campus Friday at 9am with a big celebration hosted by Secretary Trogon and Chancellor Woodson. You should have received an invitation via e-mail, and we hope you can attend. If you would like to ride it at another time let us know and we would be happy to have a staffer arrange it for you.</p> <p>Integrated Mobility Division - It is with mixed emotions that we bid farewell to Hanna Cockburn, our director of integrated mobility. Hanna has a wonderful opportunity to return to her home City of Greensboro as their new transportation director. We are so proud of the work she did to merge bike/pedestrian/public transportation into integrated mobility and proud that her work led to this exciting opportunity to return home. Hanna will be the first non-engineer transportation director for the City and the first woman to hold the position. But it is with great sadness that we will not have her leadership over the division moving forward. We are working on a plan to fill the position and will let you know when we are ready to make an announcement.</p> <p>Ferry Division - We have secured the same vessel we leased last summer for this summer's passenger ferry service to Ocracoke. Ocracoke has indicated their desire to continue to have the service as they need a very strong summer tourist season this year, we executed the option to extend the lease through the summer of 2020.</p> <p>Aviation Division - hosted aviation and aerospace economic development professionals from across the State this month to help us build a strategic plan for our new related economic development efforts. It was a most impressive group of individuals and brain power in the room and when the plan is in draft form, we will bring it to you for input.</p> <p>Rail Division - continues to make great strides on the CCX project with an anticipated opening in late fall. They continue their support of the Charlotte Gateway P3 project and</p>



MULTI-MODAL TRANSPORTATION COMMITTEE MEETING MINUTES

	continue to flesh out the opportunities for corridor purchases across the State. They will be presenting to you next month on those.
ACTIONS TAKEN	N/A.

3. PROJECT ATLAS – LEILANI PAUGH

DISCUSSION SUMMARY	<p>The ATLAS acronym stands for Advancing Transportation through Linkages Automation and Screening. The overarching vision of Project ATLAS is a “One Stop Shop” for Project Managers where they can track their project progress and obtain all GIS based data needed to assist in project delivery. Three tools have been created in ATLAS to assist with NCDOT’s program delivery.</p> <p>One of the advantages of ATLAS for Multi-Modal Transportation, as with all transportation projects, is the ability to review projects spatially in relation to other projects and to harvest data produced by adjacent projects. This improves coordination across business units and provides a platform for consideration of multi-modal project needs during highway planning, and vice versa. ATLAS also provides access across the Department to a single vetted database of GIS layers, contributing to consistency and efficiencies in the project documentation and processes.</p>
ACTIONS TAKEN	N/A

MEETING ADJOURNED (TIME): 11:18 AM



MULTI-MODAL TRANSPORTATION COMMITTEE AGENDA

BOARD OF TRANSPORTATION MARCH 4, 2020

TIME: To begin immediately following the adjournment of the EDIR and FAST Committees.

LOCATION: EIC Room

TOPIC	PRESENTER	TIME
Call to Order Roll Call Declaration of Quorum Approval of October 2, 2019 Meeting Minutes And February 5, 2020 Meeting Minutes	Chairman Perkins	
Funding Items (PTD and Aviation)	Multi-Modal Directors	
Multi-Modal Transportation Update	Julie White Deputy Secretary	
State Rail Plan, Southeast Corridor and Rail Equipment	Jason Orthner, PE Rail Division Director	
Adjourn	Chairman Perkins	



NORTH CAROLINA

Department of Transportation



Rail Division Update

Multi-Modal Committee

Jason Orthner, PE

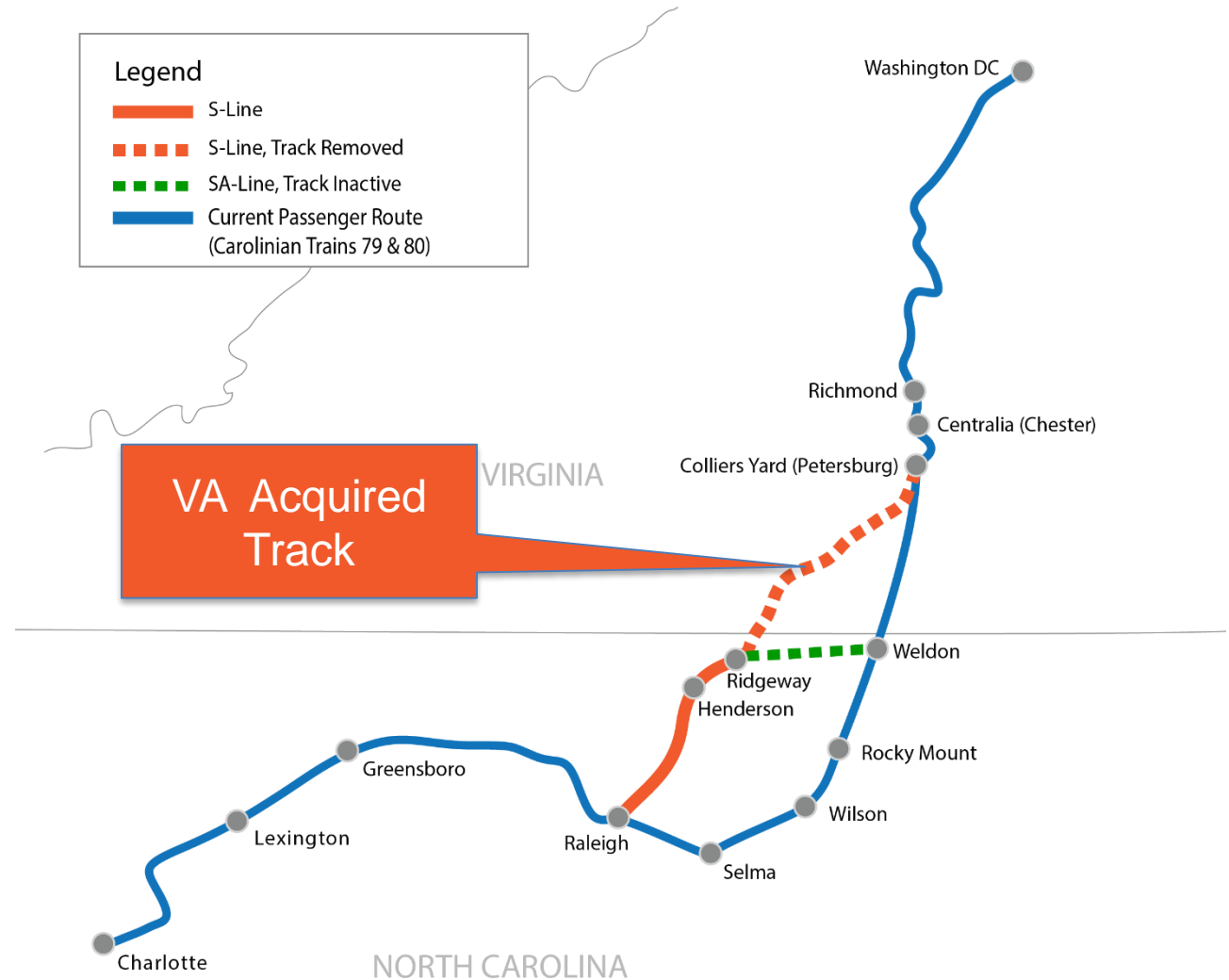
Rail Division Director

March 4, 2020



Virginia to Acquire Corridor

- Acquisition of 350 corridor miles currently owned by CSX
- Double the number of Virginia passenger trains
- Provide nearly hourly Amtrak service between Richmond and Washington, D.C.
- Lay the foundation for the Southeast Corridor through the acquisition of the out of service S-Line, from Petersburg to Ridgeway, NC



Acquisition of the S-Line

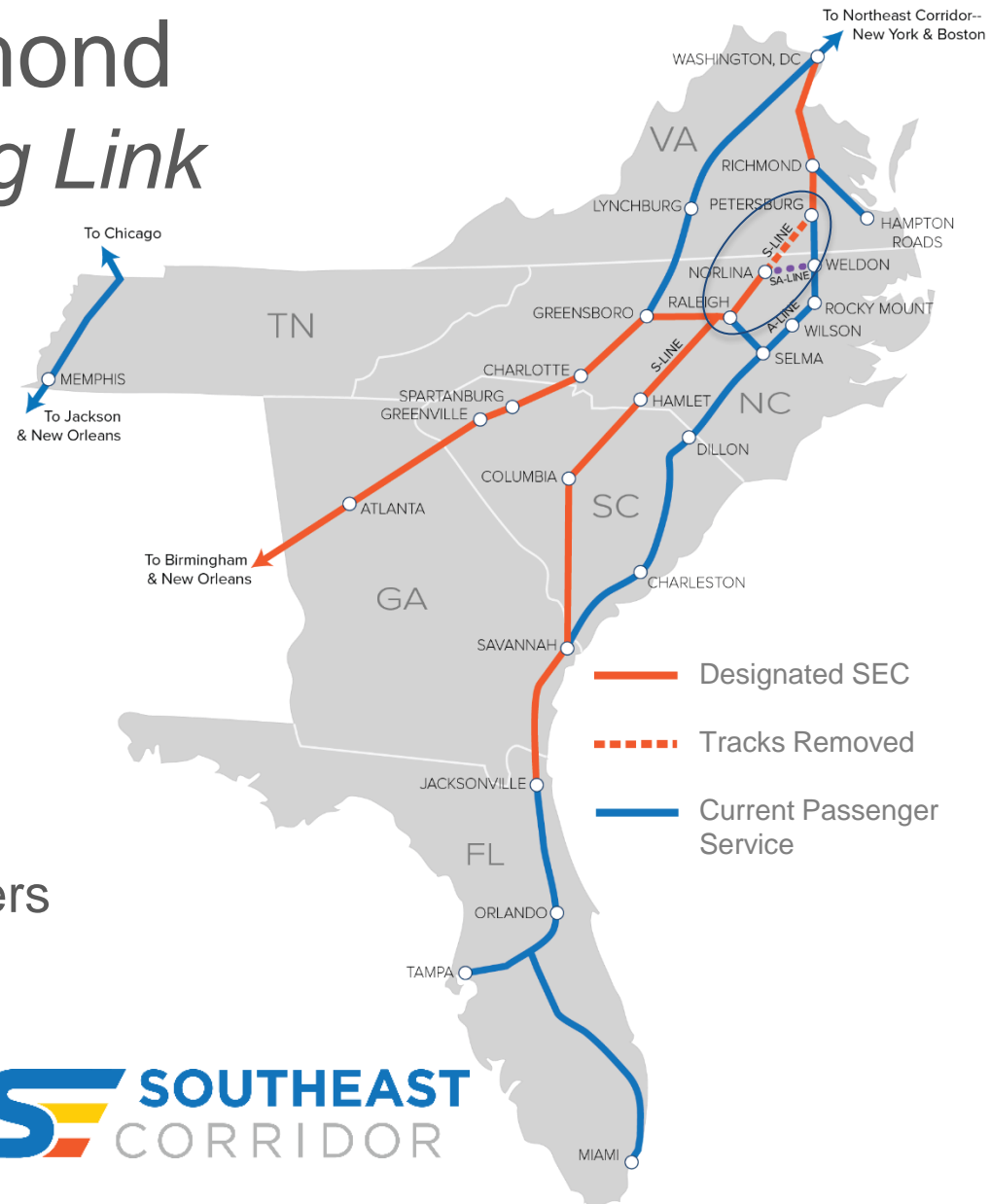
- Builds upon Virginia's acquisition
- Allows for continued growth and development of the corridor as a critical transportation link
- Supports the expansion of freight service on the line
- Aligns with upcoming CRISI grant opportunity



Raleigh to Richmond

S-Line is the Missing Link

- Critical link in the federally-designated Southeast Corridor
- Will expand and improve passenger and freight services
- Will reduce passenger trip times and improve on-time performance
- Will increase north-south freight capacity and rail network resiliency
- Will connect manufacturing and job centers to population centers



Existing Conditions on the S-Line

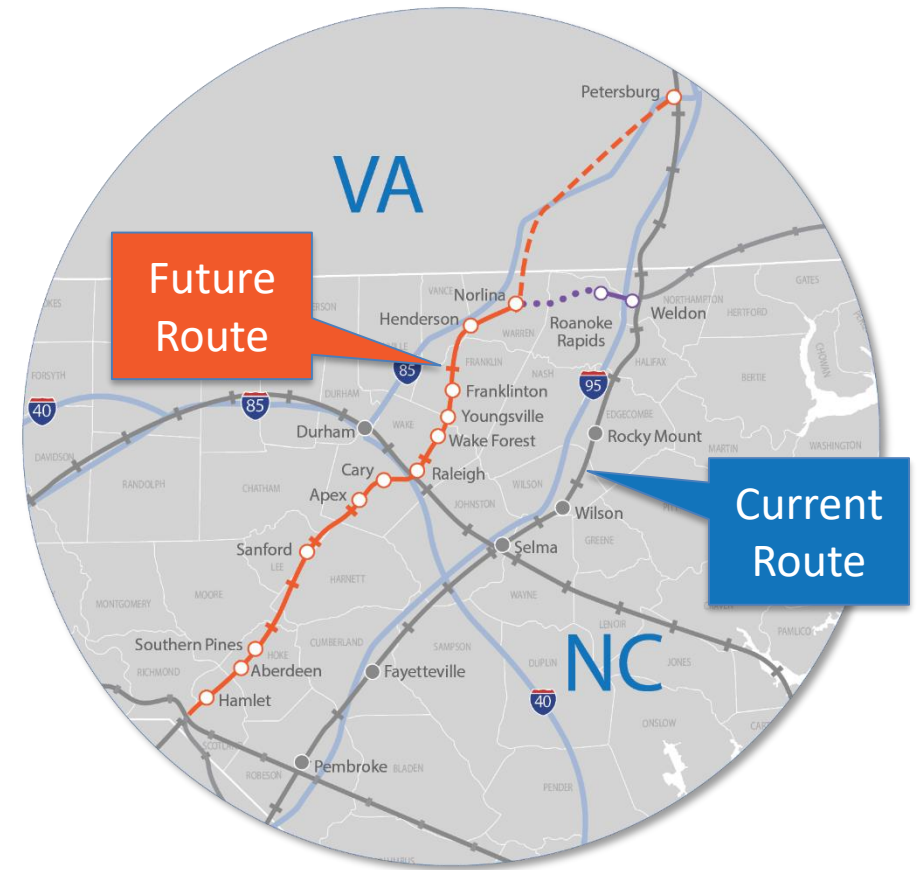
- **Petersburg to Ridgeway**
 - Out of service, tracks removed
 - *Recently purchased by State of Virginia*
- **Ridgeway to Raleigh**
 - 25 mph, local freight traffic only
 - CRISI grant opportunity
- **Raleigh to Hamlet**
 - 60 mph, local freight and passenger service



Incremental Service Development Plan

From Raleigh to Richmond

- Identifies opportunities to phase infrastructure improvements
- Analyzes passenger service extensions
 - Possible extension of Raleigh to Charlotte intercity service to Wake Forest and Henderson
- Analyzes new service schedules to Washington, DC and connections to Virginia services
- Develops corridor acquisition strategy
- Leverages projects for Federal funding opportunities
- Targeted completion in Spring 2020



Rail Division Discretionary Grants

- There are no formula-based federal rail funds.
- All federal rail funding through competitive discretionary grants.
 - Require a roughly 50% state match to be competitive
 - Projects with funding in STI source of state match
 - Have leveraged most of current STI projects
 - New projects not available until STIP approval in March 2020
- \$2B available in grant opportunities in 2019:
 - BUILD: \$900M in 2019
 - CRISI: \$244M in 2019
 - State of Good Repair: \$396M in 2019
 - INFRA: \$900M in 2019
 - Restoration & Enhancement: \$26M in 2019

Anticipated CRISI Features for FY 2020

- Additional funding category for Right of Way (ROW)
 - \$45 Million reserved for projects that require ROW acquisition, track, or track structure
- Late Spring / Early Summer Release of Funding Opportunity
- Requires a 50% state match to be competitive



\$325M
available
funding

Next Steps

Building on Virginia's Success

- Encourage governing and community authorities to pass resolutions of support for CRISI application
- Compete for CRISI 2020 for Raleigh to Ridgeway corridor
- Partner with MPOs, RPOs, and communities to progress corridor development and planning
- Secure funding for incremental projects through STI and federal discretionary grants to improve rail infrastructure for new rail services





North Carolina's Piedmont Fleet *State of Good Repair*

Current Piedmont Equipment

- 1950s-1960s rail cars, 1980s-1990s locomotives
- Current fleet acquired beginning in early 1990's
- NCDOT has purchased and refurbished good used equipment in incremental manner as services increased
- This is similar method to other states as incremental way for adding equipment to a smaller fleet



Current Piedmont Equipment

New investment cycle needed for:

- State of good repair
- Improved equipment availability
- Address useful life of oldest equipment
- Sustainable parts availability and pricing
- Customer-facing, modern improvements
- Train capacity



**New train services and additional frequencies
require additional equipment**

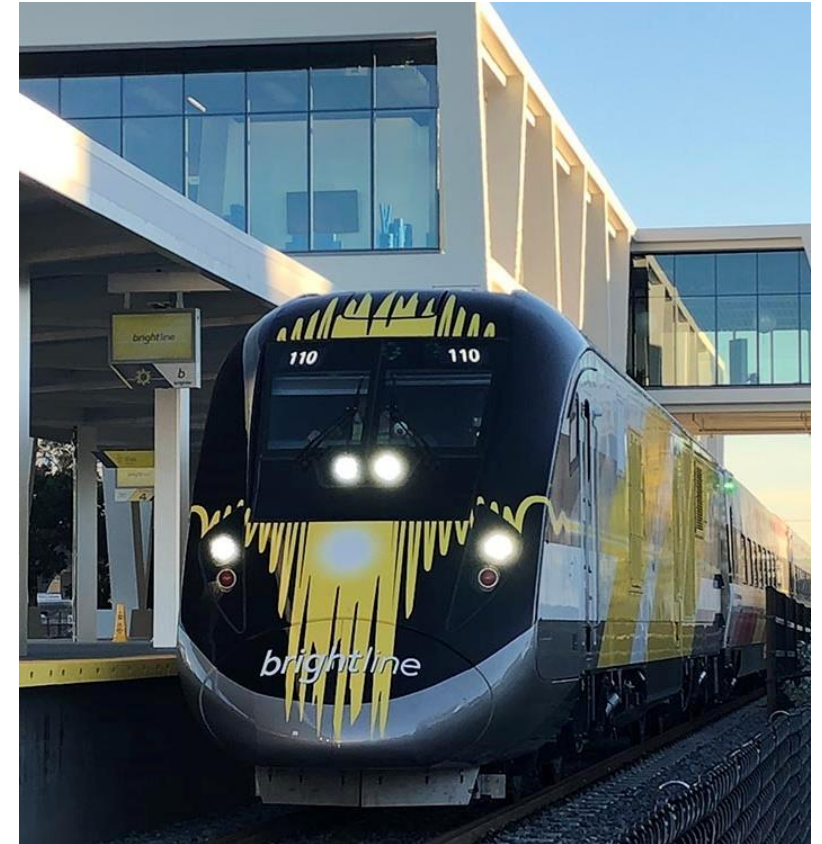
Current Piedmont Equipment



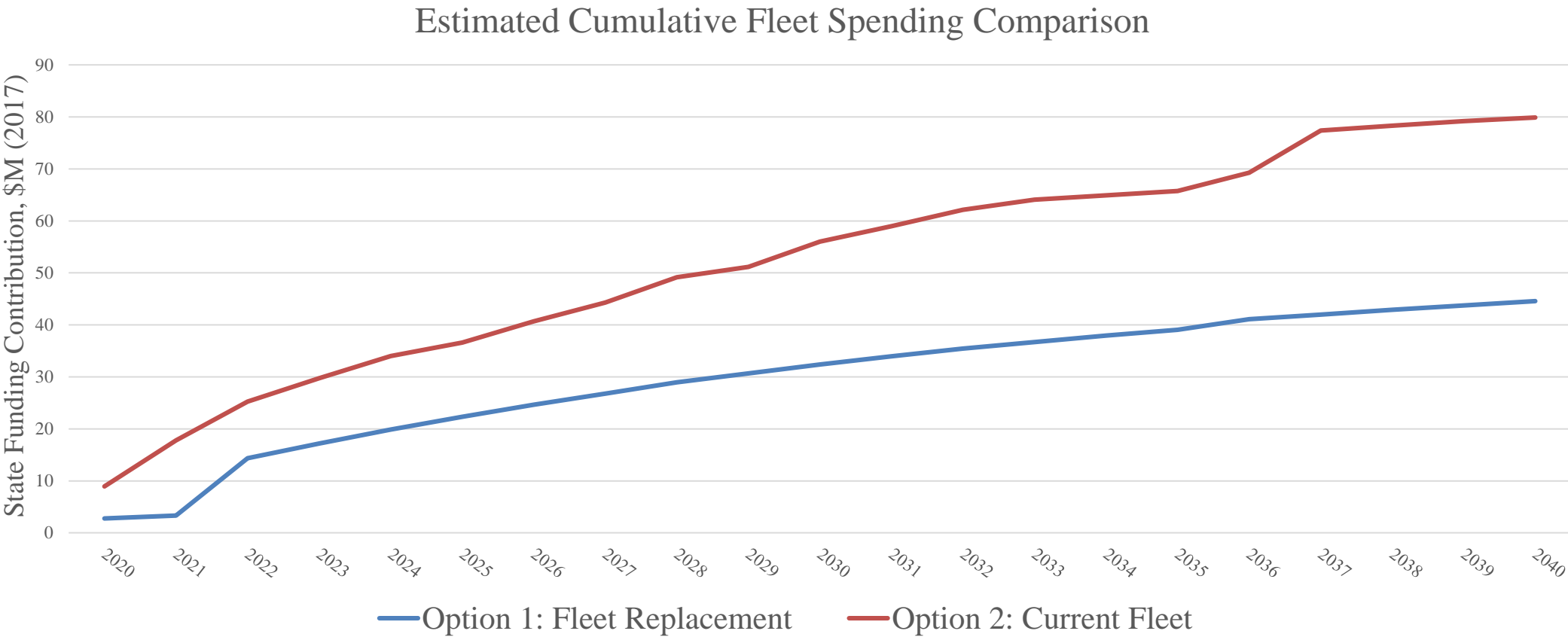
- NCDOT is evaluating its current rail equipment fleet
- Analysis will make recommendations on rail fleet's future needs
- Amtrak and other states are in process of replacing their entire fleets with new equipment

New Equipment Grant

- **NCDOT awarded FY2018 Federal-State Partnership for State of Good Repair (SOGR) to:**
 - Provide additional funds to purchase new coaches
 - Upgrade Charlotte Yard
 - \$76.9M awarded for FY 2018



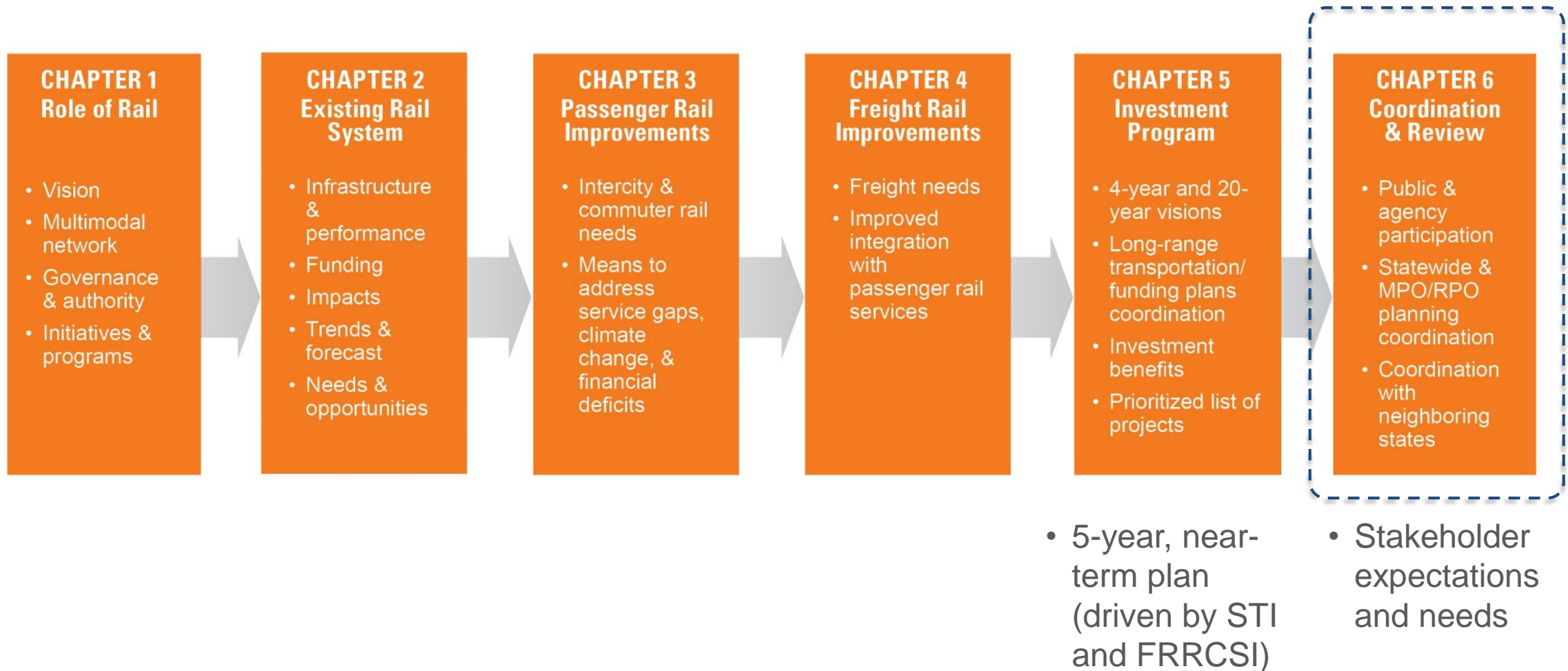
Current Fleet vs. New Fleet Cost





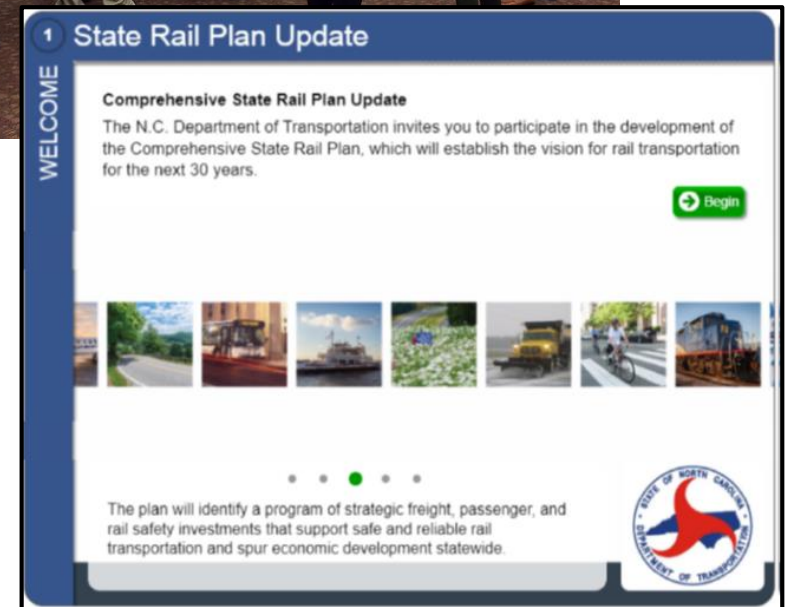
State Rail Plan Update

The State Rail Plan defines the priorities for investment in the statewide rail network to support passenger and freight rail needs



Stakeholder and Public Outreach

- Technical Advisory Committee
- Participated in three 2050 MOVES Meetings
 - Kinston; Raleigh; Hickory
- Additional Rail-Specific Regional Outreach Meetings
 - Fayetteville; Hickory
- Interviews/Meetings (40 Stakeholders)
- Meeting/Conference Presentations (5 Meetings)
- Online MetroQuest Survey / Site
 - Two months
 - Over 700 respondents provided 13,500 comments, notes, recommendations, or survey responses
 - Site will re-open to facilitate draft plan review



Needs and Opportunities

Freight

- Improved intermodal connections
- Industry and transload access (truck and rail)
- Improved connections to NC Ports

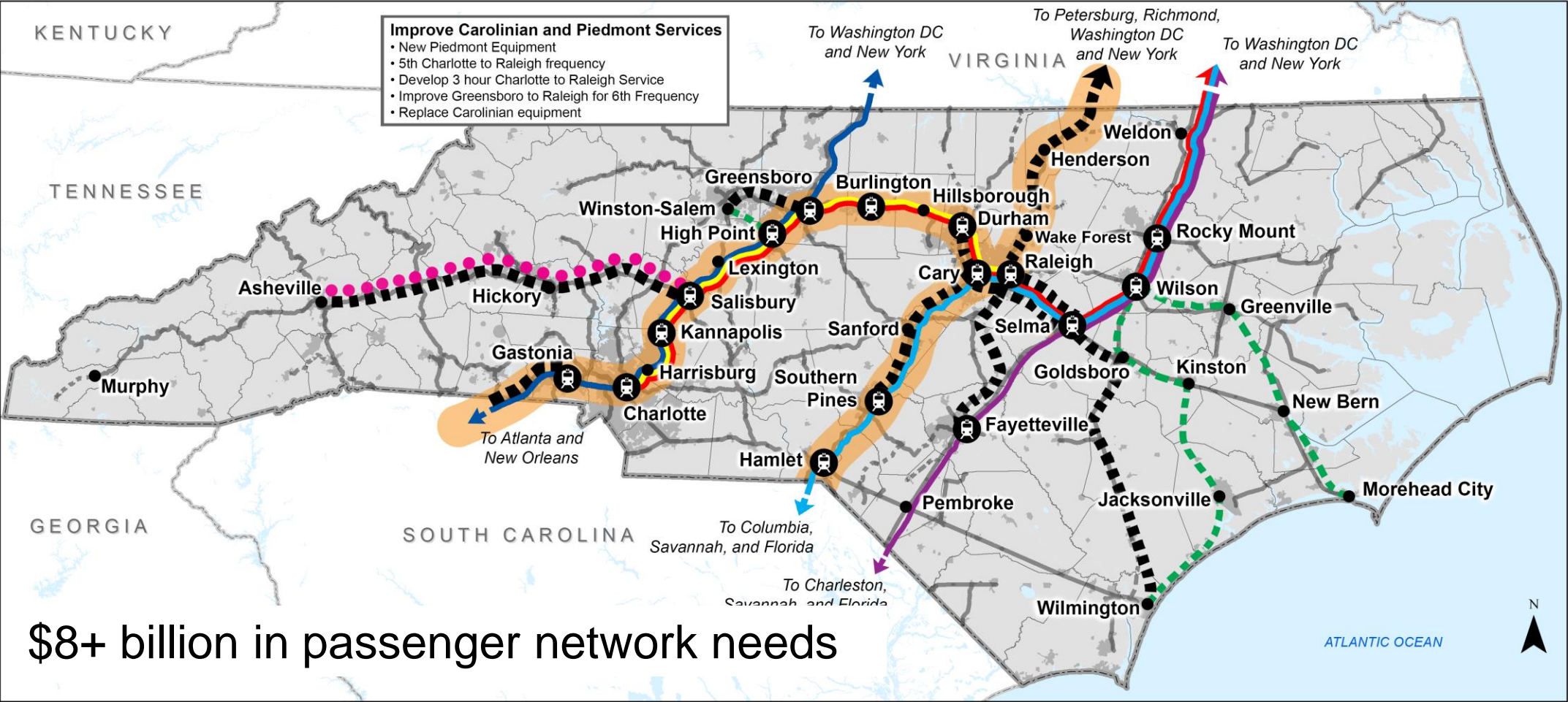
Passenger

- Improved connections between rural areas and urban and suburban population centers
- Station area development and access
- Last-mile connectivity

Both

- | | | |
|--|--|--|
| • Rail-supportive development | • Reliable funding (capital & operating) | • Network resilience |
| • Integrated planning for highway and rail | • Preserve underutilized corridors | • Safety |
| • Encourage use of rail | • Develop partnerships | • Rail Plan as a tool for stakeholder planning and development |

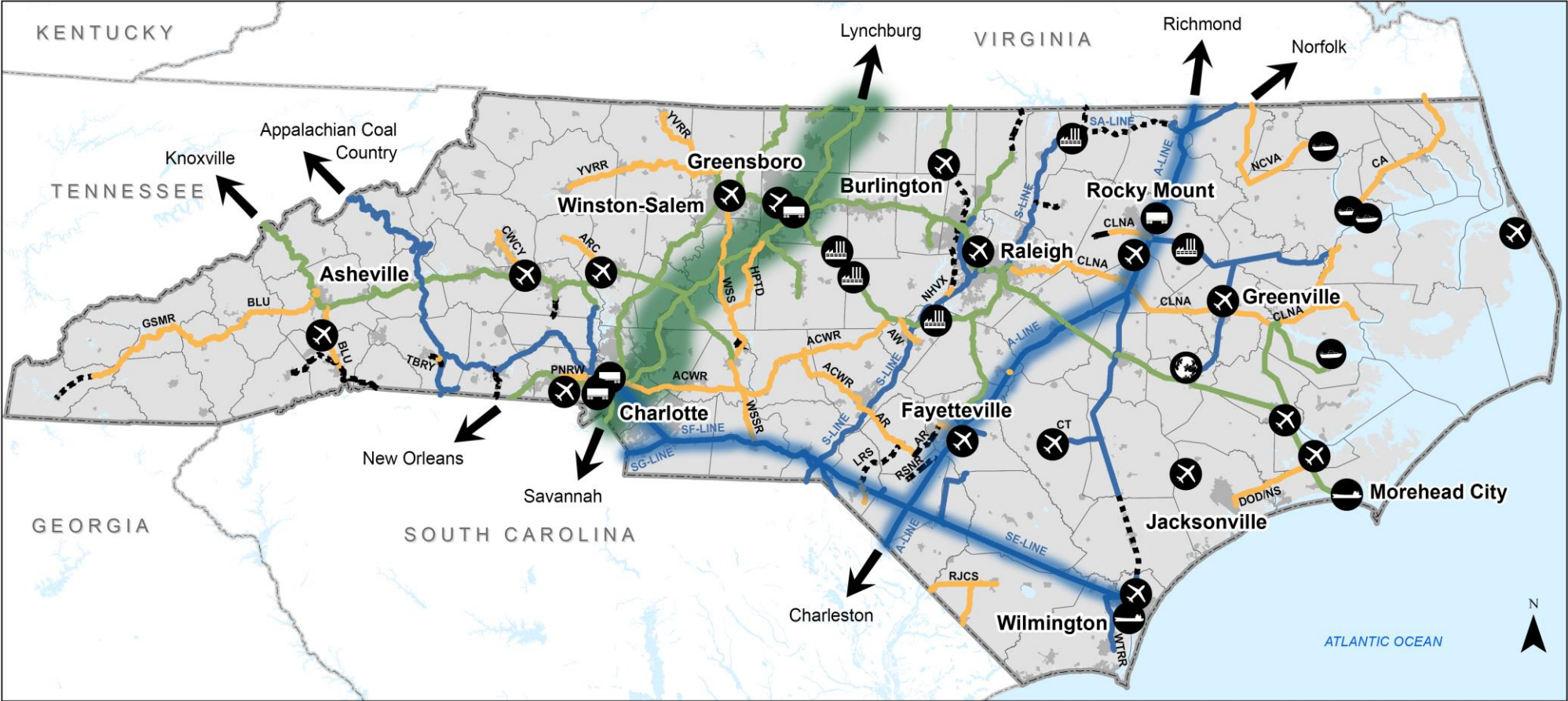
Vision for Passenger Rail Network



\$8+ billion in passenger network needs



Freight Network



Legend

- Intermodal Terminal
- State Port
- River Port
- Global TransPark
- Economic Development Sites
- Airport

Operator

- Short Line
- CSX Transportation
- Norfolk Southern
- Inactive

- CSX Intermodal Route
- Norfolk Southern Intermodal Route
- Municipal Boundaries



Schedule to Complete

Date	Milestones
March 2020	Present summary of major recommendations to be included in the Draft State Rail Plan to the Multi-Modal Committee
May 2020	Provide Draft State Rail Plan to Multi-Modal Committee Send Draft Plan to FRA to review for compliance with requirements Publish as Draft for public comment
June 2020	Present State Rail Plan to Board of Transportation for Adoption



NORTH CAROLINA Department of Transportation



Questions?

Jason Orthner, PE
Rail Division Director
(919) 707-4714



ROAD/BRIDGE/FERRY NAMING COMMITTEE AGENDA

BOARD OF TRANSPORTATION MARCH 4, 2020

TIME: 10:30AM – 11:30AM

LOCATION: Room 160

TOPIC	PRESENTER	TIME
Call to Order Roll Call Declaration of Quorum Approval of November 6, 2019 Road/Bridge/Ferry Naming Committee Meeting Minutes	Mike Fox, Chair	10:30AM
Review of Submitted Applications	Shelly Heath	10:35AM
Trooper John H. Duncan, Jr. Bridge – I-95 Overpass at NC 87 in Cumberland County	Shelly Heath	10:35AM
Trooper Damion C. Roberts Bridge – I-95 Bridge over the Cape Fear River in Cumberland County	Shelly Heath	10:40AM
Trooper Kevin K. Conner Bridge - US-701 (S. JK Powell Blvd) Bridge over Main Street in Whiteville	Shelly Heath	10:45AM
UNC 2019 Field Hockey National Championship	Shelly Heath	10:50AM
Committee Discussion	Kevin Lacy	11:05AM
Upcoming Events Update	Sazia Bashar	11:25AM
Adjourn	All	11:30AM