

I N D E X

BOARD OF TRANSPORTATION MEETING

October 6, 2016

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Board of Transportation Meeting

October 6, 2016

Call to Order

Chairman Curran called the meeting of the Board of Transportation to order at 8:35 a.m. Thursday, October 6, 2016 in Raleigh, North Carolina with the following members present: Overholt, Tulloss, Sheehan, Crawford, McQueary, Perkins, Dodson, Wetmore, Palermo, Brown and Debnam.

Board Members Fearing, Blount, Fountain, and Hutchens called in.

Board Members Molamphy, and Alexander were absent.

Invocation

The invocation was offered by Board Member Perkins.

Ethics Statement

Chairman Curran read the Ethics Statement advising any Board Member that may have a conflict of interest or appearance of conflict to abstain from participation in that particular item and to file the proper paper work with the Secretary to the Board.

Approval – Minutes of the September 8, 2016 Board Meeting

The minutes of the September 8, 2016 Board of Transportation meeting were unanimously approved upon a motion by Board Member Palermo, seconded by Board Member McQueary.

Resolution for Kelly Michael Kincaid

Upon the recommendation of the Road Naming Committee, a motion was made by Board Member Brown and seconded by Overholt, to approve the following resolution:

WHEREAS, Kelly Michael Kincaid served the State of North Carolina, Burke County and the City of Morganton for more than 19 years as a Lieutenant and Shift Commander with the Burke County Sheriff's Office, a reserve police officer with the North Carolina Department of Health and Human Services Police Department at Broughton Hospital and a reserve firefighter with the Morganton Department of Public Safety; and

WHEREAS, on March 16, 2006, Kelly Michael Kincaid, as a reserve firefighter for the Morganton Department of Public Safety, responded to the scene of a residential structure fire, and collapsed on the scene while performing fire suppression duties and on March 19, 2006 passed away as a result thereof; and

WHEREAS, Kelly Michael Kincaid performed his law enforcement and reserve firefighting duties with courage, honor and dignity and gave his life in the execution of those duties; and

WHEREAS, a bridge currently under construction on Enola Road in the City of Morganton, North Carolina lays in close proximity to both the Burke County Sheriff's Office and the grounds of Broughton Hospital and is yet unnamed; and

WHEREAS, Chapter XXIII of the North Carolina Blue Knights, Morganton/Burke Lodge #23 of the Fraternal Order of Police, the Morganton Department of Public Safety, the Burke County Sheriff's Office and the North Carolina Department of Health and Human Services Police Department at Broughton Hospital request to name the bridge currently under construction on Enola Road in the City of Morganton in memory of Kelly Michael Kincaid, and in honor of his professional and personal sacrifice.

NOW, THEREFORE, BE IT RESOLVED:

That the North Carolina Board of Transportation names the bridge on Enola Road over I-40 in Burke County as the *Kelly M. Kincaid Bridge*.

That appropriate signs will be erected at a suitable time.

Adopted, this the 6th day of October 2016 by the North Carolina Board of Transportation.

Resolution for First Sergeant J. S. Hackett and Patrolman J. A. Parker

Upon the recommendation of the Road Naming Committee, a motion was made by Board Member McQueary and seconded by Dodson, to approve the following resolution:

WHEREAS, First Sergeant J.S. Hackett and Patrolman J.A. Parker were law enforcement officers who tragically lost their lives on June 19, 1974 while serving the City of Reidsville and Rockingham County; and

WHEREAS, on that fateful day, the helicopter in which they were flying as they surveyed the road crashed in the area of McCoy Road in Reidsville; and

WHEREAS, First Sergeant Hackett and Patrolman Parker made the ultimate sacrifice while in service to the residents of Rockingham County and the State of North Carolina; and

WHEREAS, the renaming of the McCoy Road Bridge near the crash site is a fitting tribute to these men who served with diligence and honor. They may be gone but are not forgotten by their families and many friends who still reside in Rockingham County as well as the citizens of the city and state; and

WHEREAS, the City of Reidsville requests to rename the McCoy Road Bridge in honor and memory of First Sergeant J.S. Hackett and Patrolman J.A. Parker.

NOW, THEREFORE, BE IT RESOLVED:

That the North Carolina Board of Transportation names the McCoy Road Bridge over Lake Reidsville in Rockingham County as the *First Sergeant John S. Hackett & Patrolman James A. Parker Bridge*.

That appropriate signs will be erected at a suitable time.

Adopted, this the 6th day of October 2016 by the North Carolina Board of Transportation.

Chairman Curran's Remarks

Chairman Curran welcomed everyone and turned the meeting over to Chief Deputy Secretary Grey.

Chief Deputy Secretary Gray's Remarks

Deputy Secretary Gray welcomed special guests and thanked everyone for attending.

He thanked employees for storm response efforts due to the flooding in Northeastern NC several weeks ago, the flooding in the Sandhills last week, and preparation for Hurricane Matthew.

He asked Inspector Dean Roscoe with the Goldsboro License & Theft Bureau Office to come forward. On Wednesday, September 14th, Inspector Roscoe was outside his office when he saw a woman run out of the driver license office toward him carrying a small child who was choking. Inspector Roscoe administered the Heimlich maneuver, saving the child from a potentially tragic situation. Deputy Secretary Gray congratulated and thanked him for his heroic actions and presented him with the "Extra Mile" award.

Jay Mozingo, technician in our Youngsville Resident Engineer's Office in Division 5, received the Governor's Award for Excellence in Safety and Heroism at the Governor's 2016 Award Ceremony in September. In August 2015, Jay helped save a drowning driver who had crashed into a pond and was presented with the Extra Mile Award in 2015.

The Turnpike Authority received several awards from the International Bridge, Tunnel and Turnpike Association this past month including the Toll Excellence Award for Customer Service and Marketing Outreach for its Multi-Agency Interoperability and the prestigious President’s Award for its work on the Triangle Expressway. This award is considered the highest honor within the international toll industry.

Deputy Secretary Gray recognized Patrick McCaully, Video Marking Specialist in the Communications Office for taking 1st place in the 2016 TransComm External Video Production category for his video on the history of the Bonner Bridge. The TransComm Skills Contest is conducted annually by the AASHTO Subcommittee on Transportation Communication.

Online Driver License Renewals Hit 500,000 and has saved nearly 250,000 customer hours, and almost 125,000 staff hours have been freed to help others. About 70 percent of the customers who are still visiting an office could complete their transaction online.

Southeastern North Carolina has received approval to expand Foreign Trade Zone 214 to include 22 counties in southeastern North Carolina and three new magnet sites run by a third party. On October 4th in conjunction with North Carolina Manufacturing Week, Secretary Tennyson toured Craven County Industrial Park, one of the new magnet sites. A new business model was also approved that reduces the time it takes companies to attain foreign trade zone status from months to just weeks.

The Department is seeking federal approval to designate U.S. 264 as a future interstate from the U.S. 264/64 split in Zebulon to Greenville. FHWA and AASHTO are expected to make a decision by end of the year. The Department also launched North Carolina’s Vision Zero campaign aimed at achieving zero deaths and fatalities on our highways.

Division level project scoring is in progress and local input point submittal ends October 31. The public comment period is Oct. 10-Oct. 21. The P5.0 Work Group kicked off this week.

Construction Career Days was held in Greenville on October 4 and 5 and gave more than 1,600 high schoolers from eastern NC hands on experience in the construction industry. Secretary Tennyson participated in the 20th Annual International Walk to School Day on Wednesday, October 5th at Conn Elementary School in Raleigh. Schools throughout NC participated and the event was aimed at promoting safety and the benefits of walking to school.

Approval of Projects

A motion was made by Board Member McQueary, seconded by Board Member Brown, to approve all the projects, excluding items C, D, E, H and L, as they are delegated authority items and require no Board action.

Delegated Authority Items

Approval – Award of Highway Construction Contracts in the September 20, 2016 Letting

Projects were awarded by the Secretary to the low bidder on all projects.

<u>Project</u>	<u>Contract Awarded To</u>	<u>Amount</u>
C203915	JOHNSON BROTHERS UTILITY &	\$3,932,441.74
2017CPT.03.02.10821,	PAVING COMPANY, INC.	
2017CPT.03.02.20821, 44735	LILLINGTON, NC	
STATE FUNDED		
SAMPSON		

C203791 50125.3.1 NHPP-0540(030) WAKE 1-5710	S T WOOTEN CORPORATION WILSON, NC	\$2,501,311.75
C203866 52007.3.1 NHPP-0085(13) DURHAM 1-5729	FSC II LLC OBA FRED SMITH COMPANY RALEIGH, NC	\$7,543,502.68
* C203917 33727.3.FS1 BRNHS-0024(24) CUMBERLAND B-4490	S T WOOTEN CORPORATION WILSON, NC	\$24,309, 140.31
C203793 35196.3.17 NHP-0295(003) CUMBERLAND X-0002F	FULCHER ELECTRIC OF FAYETTEVILLE INC FAYETTEVILLE, NC	\$1,525,503.08
C203792 34820.3.30 NHF-0708(53) GUILFORD U-2524D	FLATIRON CONSTRUCTORS, INC. BLYTHE DEVELOPMENT CO JOINT VENT BI.	\$57,956,530.84
C203872 53058.3.1 NHPIM-0085(9)123 GUILFORD 1-5854	PENHALL COMPANY ANAHEIM, CA	\$5,297,043.64

Approval - Professional Services Management

The Board concurred with the staff recommendations and delegated authority to the Secretary to award the following contracts.

Technical Services

Project Development and Environmental Analysis

The following is a supplemental contract to a previous contract approved by the Board with the same engineering firm. This supplemental contract is 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 Planning and Design LSC

Firm:	Dewberry Engineers, Inc., Raleigh, NC
Original Engineering Fee:	\$1,500,000.00
Supplemental Fee:	\$ 500,000.00
SPSF Utilization:	EEE Consulting, Inc. \$50,000.00 10%
DBE/WBE/SPSF Utilization:	Falcon Engineering, Inc. \$25,000.00 5%
SPSF Utilization:	Patriot Transportation Engineering, PLLC \$30,000.00 6%
DBE/WBE/SPSF Utilization:	Planning Communities, LLC \$60,000.00 12%
SPSF Utilization:	Ramey Kemp & Associates, Inc. \$25,000.00 5%

Project Development and Environmental Analysis – Human Environment

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 the Human Environment Section's Limited English Proficiency Services on an as needed basis for various federal-aid and state funded projects. These contracts will expire two years (with two annual extensions possible) 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. These are for information only.

STATEWIDE

Description of Work:	2016 Limited English Proficiency LSC
Firm:	Three Oaks Engineering, Inc., Durham, NC
Maximum Engineering Fee:	\$250,000.00
DBE/WBE/SPSF Utilization:	100%

Description of Work:	2016 Limited English Proficiency LSC
Firm:	SpanishSpeaking LLC, Winston-Salem, NC
Maximum Engineering Fee:	\$500,000.00
SPSF Utilization:	100%

Description of Work:	2016 Limited English Proficiency LSC
Firm:	Neighborhood Solutions, LLC, Winston-Salem, NC
Maximum Engineering Fee:	\$300,000.00
DBE/MBE/SPSF Utilization:	100%

Description of Work:	2016 Limited English Proficiency LSC
Firm:	Mott MacDonald I&E LLC, Fuquay-Varina, NC
Maximum Engineering Fee:	\$200,000.00
SPSF Utilization:	0%

Description of Work:	2016 Limited English Proficiency LSC
Firm:	MM/I and Associates, LLC, Raleigh, NC
Maximum Engineering Fee:	\$250,000.00
DBE/MBE/SPSF Utilization:	100%

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: 2012 Limited English Proficiency LSC
Firm: Spanish Speaking LLC, Winston-Salem, NC
Original Engineering Fee: \$400,000.00
Supplemental Fee: \$ 54,000.00
SPSF Utilization: 100%

Roadway Design

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.

DIVISION 2

Project: 46015.1.1 (B-5301) Pitt County
Bridge No 87 over Norfolk Southern Railroad on NC 33
Scope of Work: Roadway and Hydraulic Design
Estimated Construction Cost: \$2,150,000.00
Firm: Sepi Engineering & Construction, Inc., Raleigh, NC
Original Engineering Fee: \$42,254.47
Previous Supplemental Fee: \$27,818.27
Supplemental Fee: \$45,724.72
Supplemental Work: Alignment had to be moved to keep existing traffic open while constructing the new bridge
SPSF Utilization: 0%

Chief Engineer

Divisions 5, 7, 8, and 9

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 Divisions 5, 7, 8, and 9 Planning and Design Limited Services on an as needed basis for various federal-aid and state funded projects to support Divisions 5, 7, 8, and 9. These contracts will expire two years, with an optional one year extension possible, 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. These are for information only.

Description of Work: 2016 Divisions 5, 7, 8, and 9 Planning and Design LSC
Firm: The Nau Company, PLLC, Rolesville, NC
Maximum Engineering Fee: \$5,000,000.00
SPSF Utilization: 100%

Description of Work: 2016 Divisions 5, 7, 8, and 9 Planning and Design LSC

Firm:	HNTB of North Carolina, PC, Raleigh, NC	
Maximum Engineering Fee:	\$5,000,000.00	
SPSF Utilization:	Axiom Environmental, Inc.	\$50,000.00
	1%	
DBE/WBE/SPSF Utilization:	CH Engineering, PLLC	\$100,000.00
	2%	
SPSF Utilization:	Carolina Land Acquisitions, Inc.	\$50,000.00
	1%	
SPSF Utilization:	Environmental Services, Inc.	\$50,000.00
	1%	
DBE/MBE/SPSF Utilization:	MA Engineering Consultants, Inc.	\$100,000.00
	2%	
DBE/SPSF Utilization:	MI Engineering, PLLC	\$50,000.00
	1%	
SPSF Utilization:	So-Deep US, PC	\$100,000.00
	2%	
Description of Work:	2016 Divisions 5, 7, 8, and 9 Planning and Design LSC	
Firm:	TGS Engineers, Shelby, NC	
Maximum Engineering Fee:	\$5,000,000.00	
SPSF Utilization:	100%	
Description of Work:	2016 Divisions 5, 7, 8, and 9 Planning and Design LSC	
Firm:	WSP PB, Raleigh, NC	
Maximum Engineering Fee:	\$5,000,000.00	
SPSF Utilization:	Carolina Ecosystems, Inc.	\$150,000.00
	3%	
SPSF Utilization:	Utility Coordination Consultants	\$150,000.00
	3%	
SPSF Utilization:	Commonwealth Heritage Group, Inc.	\$100,000.00
	2%	
DBE/WBE/SPSF Utilization:	Morton & Morton Design Services, PLLC	\$50,000.00
	1%	
Description of Work:	2016 Divisions 5, 7, 8, and 9 Planning and Design LSC	
Firm:	Michael Baker Engineering, Inc., Cary, NC	
Maximum Engineering Fee:	\$5,000,000.00	
SPSF Utilization:	Sungate Design Group, PA	\$500,000.00
	10%	
SPSF Utilization:	Davis-Martin-Powell & Associates, Inc.	\$250,000.00
	5%	
SPSF Utilization:	Patriot Transportation Engineering, PLLC	\$250,000.00
	5%	
DBE/WBE/SPSF Utilization:	Dovetail Cultural Resource Group, Inc.	\$100,000.00
	2%	

Description of Work:	2016 Divisions 5, 7, 8, and 9 Planning and Design LSC	
Firm:	STV Engineers, Inc., Charlotte, NC	
Maximum Engineering Fee:	\$5,000,000.00	
DBE/WBE/SPSF Utilization:	Calyx Engineers and Consultants, Inc.	\$1,000,000.00
	20%	
DBE/WBE/SPSF Utilization:	Falcon Engineering, Inc.	\$100,000.00
	2%	
SPSF Utilization:	Progressive Design Group, Inc.	\$150,000.00
	3%	

Description of Work:	2016 Divisions 5, 7, 8, and 9 Planning and Design LSC	
Firm:	HDR Engineering Inc. of the Carolinas, Raleigh, NC	
Maximum Engineering Fee:	\$5,000,000.00	
DBE/WBE/SPSF Utilization:	CH Engineering, PLLC	\$250,000.00
	5%	
SPSF Utilization:	Carolina Land Acquisitions, Inc.	\$50,000.00
	1%	
SPSF Utilization:	Clearbox Forecast Group PLLC	\$150,000.00
	3%	
SPSF Utilization:	Hinde Engineering, Inc.	\$150,000.00
	3%	
DBE/WBE/SPSF Utilization:	Planning Communities LLC	\$150,000.00
	3%	

Description of Work:	2016 Divisions 5, 7, 8, and 9 Planning and Design LSC	
Firm:	Stewart, Raleigh, NC	
Maximum Engineering Fee:	\$5,000,000.00	
SPSF Utilization:	100%	

Description of Work:	2016 Divisions 5, 7, 8, and 9 Planning and Design LSC	
Firm:	RS&H Architects-Engineers-Planners, Inc., Charlotte, NC	
Maximum Engineering Fee:	\$5,000,000.00	
SPSF Utilization:	Carolina Ecosystems, Inc.	\$150,000.00
	3%	
DBE/WBE/SPSF Utilization:	Planning Communities LLC	\$200,000.00
	4%	
SPSF Utilization:	So-Deep US, PC	\$150,000.00
	3%	
SPSF Utilization:	Angler Environmental	\$100,000.00
	2%	
SPSF Utilization:	Commonwealth Heritage Group, Inc.	\$100,000.00
	2%	

Description of Work:	2016 Divisions 5, 7, 8, and 9 Planning and Design LSC	
Firm:	VHB Engineering NC PC, Raleigh, NC	

Maximum Engineering Fee:	\$5,000,000.00	
SPSF Utilization:	Commonwealth Heritage Group, Inc. 1%	\$50,000.00
DBE/WBE/SPSF Utilization:	Falcon Engineering, Inc. 1%	\$50,000.00
DBE/SPSF Utilization:	MI Engineering, PLLC 5%	\$250,000.00
DBE/MBE/SPSF Utilization:	Neighborhood Solutions LLC 1%	\$50,000.00
SPSF Utilization:	Sungate Design Group, PA 5%	\$250,000.00
SPSF Utilization:	TGS Engineers 9%	\$450,000.00
SPSF Utilization:	So-Deep US, PC 4%	\$200,000.00
Description of Work:	2016 Divisions 5, 7, 8, and 9 Planning and Design LSC	
Firm:	Vaughn & Melton Consulting Engineers, Asheville, NC	
Maximum Engineering Fee:	\$5,000,000.00	
DBE/WBE/SPSF Utilization:	Wetherill Engineering, Inc. 10%	\$500,000.00
SPSF Utilization:	Parrish and Partners of North Carolina, PLLC 2%	\$100,000.00
SPSF Utilization:	Environmental Corporation of North Carolina, Inc. 2%	\$100,000.00
Description of Work:	2016 Divisions 5, 7, 8, and 9 Planning and Design LSC	
Firm:	Simpson Engineers & Associates PC, Cary, NC	
Maximum Engineering Fee:	\$5,000,000.00	
DBE/MBE/SPSF Utilization:	100%	
Description of Work:	2016 Divisions 5, 7, 8, and 9 Planning and Design LSC	
Firm:	Wetherill Engineering, Inc., Raleigh, NC	
Maximum Engineering Fee:	\$5,000,000.00	
DBE/WBE/SPSF Utilization:	100%	
Description of Work:	2016 Divisions 5, 7, 8, and 9 Planning and Design LSC	
Firm:	Rummel Klepper & Kahl LLP, Raleigh, NC	
Maximum Engineering Fee:	\$5,000,000.00	
DBE/WBE/SPSF Utilization:	Falcon Engineering, Inc. 4%	\$200,000.00
DBE/MBE/SPSF Utilization:	Accelerate Engineering PLLC 2%	\$100,000.00
DBE/WBE/SPSF Utilization:	New South Associates, Inc. 1%	\$50,000.00

DBE/MBE/SPSF Utilization:	MM/I and Associates, LLC 1%	\$50,000.00
DBE/WBE/SPSF Utilization:	CH Engineering, PLLC 2%	\$100,000.00
Description of Work:	2016 Divisions 5, 7, 8, and 9 Planning and Design LSC	
Firm:	CH Engineering, PLLC, Raleigh, NC	
Maximum Engineering Fee:	\$5,000,000.00	
DBE/WBE/SPSF Utilization:	100%	
Description of Work:	2016 Divisions 5, 7, 8, and 9 Planning and Design LSC	
Firm:	Kimley-Horn & Associates, Inc., Raleigh, NC	
Maximum Engineering Fee:	\$5,000,000.00	
DBE/WBE/SPSF Utilization:	New South Associates, Inc. 2%	\$100,000.00
DBE/WBE/SPSF Utilization:	CH Engineering, PLLC 4%	\$200,000.00
DBE/WBE/SPSF Utilization:	Wetherill Engineering, Inc. 6%	\$300,000.00
SPSF Utilization:	Carolina Land Acquisitions, Inc. 2%	\$100,000.00
Description of Work:	2016 Divisions 5, 7, 8, and 9 Planning and Design LSC	
Firm:	Calyx Engineers and Consultants Inc., Raleigh, NC	
Maximum Engineering Fee:	\$5,000,000.00	
DBE/WBE/SPSF Utilization:	100%	
Description of Work:	2016 Divisions 5, 7, 8, and 9 Planning and Design LSC	
Firm:	H.W. Lochner, Inc., Raleigh, NC	
Maximum Engineering Fee:	\$5,000,000.00	
DBE/WBE/SPSF Utilization:	CH Engineering, PLLC 5%	\$250,000.00
SPSF Utilization:	Commonwealth Heritage Group, Inc. 1%	\$50,000.00
DBE/WBE/SPSF Utilization:	Ecological Engineering, LLP 8%	\$400,000.00
DBE/WBE/SPSF Utilization:	Falcon Engineering, Inc. 4%	\$200,000.00
DBE/MBE/SPSF Utilization:	Mekuria Engineering, Inc. 2%	\$100,000.00
DBE/MBE/SPSF Utilization:	MM/I and Associates, LLC 1%	\$50,000.00
DBE/MBE/SPSF Utilization:	Simpson Engineers & Associates PC 4%	\$200,000.00
SPSF Utilization:	So-Deep US, PC 4%	\$200,000.00
SPSF Utilization:	Sungate Design Group, PA	\$250,000.00

5%

Description of Work: 2016 Divisions 5, 7, 8, and 9 Planning and Design LSC
Firm: Ramey Kemp & Associates, Inc., Raleigh, NC
Maximum Engineering Fee: \$5,000,000.00
SPSF Utilization: 100%

Description of Work: 2016 Divisions 5, 7, 8, and 9 Planning and Design LSC
Firm: KCI Associates of North Carolina PC, Raleigh, NC
Maximum Engineering Fee: \$5,000,000.00
DBE/WBE/SPSF Utilization: Planning Communities LLC \$1,250,000.00
25%
DBE/WBE/SPSF Utilization: Ecological Engineering, LLP \$750,000.00
15%

Description of Work: 2016 Divisions 5, 7, 8, and 9 Planning and Design LSC
Firm: Parsons Transportation Group, Raleigh, NC
Maximum Engineering Fee: \$5,000,000.00
DBE/WBE/SPSF Utilization: Three Oaks Engineering, Inc. \$350,000.00
7%
SPSF Utilization: Sungate Design Group, PA \$250,000.00
5%
SPSF Utilization: Hinde Engineering, Inc. \$200,000.00
4%
SPSF Utilization: So-Deep US, PC \$250,000.00
5%
SPSF Utilization: Carolina Land Acquisitions, Inc. \$100,000.00
2%

Description of Work: 2016 Divisions 5, 7, 8, and 9 Planning and Design LSC
Firm: Dewberry Engineers, Inc., Raleigh, NC
Maximum Engineering Fee: \$5,000,000.00
DBE/WBE/SPSF Utilization: CH Engineering, PLLC \$250,000.00
5%
DBE/MBE/SPSF Utilization: Davenport \$250,000.00
5%
SPSF Utilization: Patriot Transportation Engineering, PLLC \$200,000.00
4%
DBE/WBE/SPSF Utilization: Planning Communities LLC \$200,000.00
4%

Description of Work: 2016 Divisions 5, 7, 8, and 9 Planning and Design LSC
Firm: Mott MacDonald I&E LLC, Fuquay-Varina, NC
Maximum Engineering Fee: \$5,000,000.00
DBE/MBE/SPSF Utilization: Accelerate Engineering PLLC \$50,000.00
1%
SPSF Utilization: Axiom Environmental, Inc. \$150,000.00

DBE/WBE/SPSF Utilization:	3% Dovetail Cultural Resource Group, Inc.	\$50,000.00
DBE/WBE/SPSF Utilization:	1% Falcon Engineering, Inc.	\$100,000.00
DBE/WBE/Utilization:	2% O.R.Colan Group LLC	\$50,000.00
DBE/MBE/SPSF Utilization:	1% Simpson Engineers & Associates PC	\$250,000.00
DBE/WBE/SPSF Utilization:	5% Wetherill Engineering, Inc.	\$250,000.00
Description of Work:	2016 Divisions 5, 7, 8, and 9 Planning and Design LSC	
Firm:	Summit Design and Engineering Services, PLLC, Hillsborough, NC	
Maximum Engineering Fee:	\$5,000,000.00	
SPSF Utilization:	100%	
Description of Work:	2016 Divisions 5, 7, 8, and 9 Planning and Design LSC	
Firm:	Sepi Engineering & Construction, Inc., Raleigh, NC	
Maximum Engineering Fee:	\$5,000,000.00	
DBE/WBE/SPSF Utilization:	New South Associates, Inc.	\$50,000.00
DBE/MBE/SPSF Utilization:	1% Davenport	\$100,000.00
DBE/MBE/SPSF Utilization:	2% Neighborhood Solutions LLC	\$50,000.00
Description of Work:	2016 Divisions 5, 7, 8, and 9 Planning and Design LSC	
Firm:	Stantec Consulting Services, Inc., Raleigh, NC	
Maximum Engineering Fee:	\$5,000,000.00	
DBE/WBE/SPSF Utilization:	Anne Morris and Associates, LLC	\$50,000.00
DBE/WBE/SPSF Utilization:	1% Falcon Engineering, Inc.	\$100,000.00
DBE/MBE/SPSF Utilization:	2% Mekuria Engineering, Inc.	\$50,000.00
DBE/SPSF Utilization:	1% MI Engineering, PLLC	\$100,000.00
SPSF Utilization:	2% Patriot Transportation Engineering, PLLC	\$50,000.00
SPSF Utilization:	1% So-Deep US, PC	\$100,000.00
DBE/WBE/SPSF Utilization:	2% Wetherill Engineering, Inc.	\$100,000.00
	2%	

Description of Work:	2016 Divisions 5, 7, 8, and 9 Planning and Design LSC	
Firm:	ICA Engineering, Inc., Raleigh, NC	
Maximum Engineering Fee:	\$5,000,000.00	
DBE/WBE/SPSF Utilization:	CH Engineering, PLLC	\$250,000.00
	5%	
SPSF Utilization:	Alpha & Omega Group PC	\$250,000.00
	5%	

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.

DIVISION 7

Project:	34418.3.5 (R-2309AB) Guilford County 34429.3.7 (R-2413C) Guilford County US 220 (combined with R-2413C) from SR 2182 (Horsepen Creek Rd.) to 0.2 mile north of SR 2313 (Winfree Road) and US 220 / Future I-73 from the Haw River to NC 68 / US 220 Intersection (combined with R-2309AB)	
Scope of Work:	Construction Engineering and Inspection Services	
Estimated Construction Cost:	\$96,195,464.51	
Firm:	Volkert, Inc. Raleigh, NC	
Original Engineering Fee:	\$7,000,000.00	
Supplemental Fee:	\$2,200,000.00	
Supplemental Work:	Additional CEI Services	
SPSF Utilization:	Summit Design and Engineering Services, PLLC	\$990,000.00
	45%	

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

STATEWIDE

Description of Work:	2014-2016 CEI LSC	
Firm:	Campo & Associates, PLLC, Kannapolis, NC	
Original Engineering Fee:	\$10,000,000.00	
Supplemental Fee:	\$ 5,000,000.00	
SPSF Utilization:	TGS Engineers, Inc.	\$500,000.00
	10%	

Description of Work:	2014-2016 CEI LSC	
Firm:	DRMP, Inc., Charlotte, NC	
Original Engineering Fee:	\$10,000,000.00	
Supplemental Fee:	\$ 5,000,000.00	
DBE/MBE/SPSF Utilization:	Bree & Associates, Inc.	\$1,000,000.00

20%

Description of Work: 2014-2016 CEI LSC
Firm: KCI Associates of North Carolina PC, Raleigh, NC
Original Engineering Fee: \$10,000,000.00
Previous Supplemental Fee: \$ 5,000,000.00
Supplemental Fee: \$ 5,000,000.00
SPSF Utilization: 0%

Description of Work: 2014-2016 CEI LSC
Firm: Rummel, Klepper & Kahl, LLP, Raleigh, NC
Original Engineering Fee: \$10,000,000.00
Previous Supplemental Fee: \$10,000,000.00
Supplemental Fee: \$10,000,000.00
SPSF Utilization: F&ME Consultants, Inc. \$500,000.00
5%
DBE/WBE/SPSF Utilization: OLH, Inc. \$500,000.00
5%

Description of Work: 2014-2016 CEI LSC
Firm: Sepi Engineering & Construction, Inc., Raleigh, NC
Original Engineering Fee: \$10,000,000.00
Previous Supplemental Fee: \$10,000,000.00
Supplemental Fee: \$10,000,000.00
SPSF Utilization: 0%

Description of Work: 2014-2016 CEI LSC
Firm: Summit Design and Engineering Services, PLLC, Hillsborough, NC
Original Engineering Fee: \$10,000,000.00
Previous Supplemental Fee: \$ 5,000,000.00
Supplemental Fee: \$10,000,000.00
SPSF Utilization : 100%

Description of Work: 2014-2016 CEI LSC
Firm: Vaughn & Melton Consulting Engineers, Asheville, NC
Original Engineering Fee: \$10,000,000.00
Previous Supplemental Fee: \$5,000,000.00
Supplemental Fee: \$5,000,000.00
SPSF Utilization: 0%

Description of Work: 2014-2016 CEI LSC
Firm: Volkert, Inc., Raleigh, NC
Original Engineering Fee: \$10,000,000.00
Previous Supplemental Fee: \$ 5,000,000.00
Supplemental Fee: \$10,000,000.00
SPSF Utilization: 0%

Divisions 1, 2, 3, 4, and 6

Description of Work: Divisions 1, 2, 3, 4, and 6 Planning and Design LSC

Firm: HDR Engineering, Inc., of the Carolinas, Raleigh, NC
 Original Engineering Fee: \$3,000,000.00
 Supplemental Fee: \$2,000,000.00
 SPSF Utilization: Hinde Engineering, Inc. \$100,000.00
 5%
 SPSF Utilization: Joyner Keeny, PLLC \$40,000.00
 2%
 SPSF Utilization: Patriot Transportation Engineering, PLLC \$80,000.00
 4%
 DBE/WBE/SPSF Utilization: Planning Communities, LLC \$60,000.00
 3%
 SPSF Utilization: Ramey Kemp & Associates, Inc. \$100,000.00
 5%

Description of Work: Divisions 1, 2, 3, 4, and 6 Planning and Design LSC
 Firm: HNTB of North Carolina, PC, Raleigh, NC
 Original Engineering Fee: \$3,000,000.00
 Supplemental Fee: \$4,000,000.00
 SPSF Utilization: Carolina Land Acquisitions, Inc. \$200,000.00
 5%
 SPSF Utilization: Environmental Services, Inc. \$200,000.00
 5%
 DBE/MBE/SPSF Utilization: MA Engineering Consultants, Inc. \$200,000.00
 5%
 DBE/SPSF Utilization: MI Engineering, PLLC \$200,000.00
 5%
 SPSF Utilization: So-Deep US, PC \$200,000.00
 5%

Description of Work: Divisions 1, 2, 3, 4, and 6 Planning and Design LSC
 Firm: Michael Baker Engineering, Inc., Cary, NC
 Original Engineering Fee: \$3,000,000.00
 Supplemental Fee: \$4,500,000.00
 SPSF Utilization: Sungate Design Group, PA \$675,000.00
 15%
 SPSF Utilization: Hinde Engineering, Inc. \$90,000.00
 2%
 SPSF Utilization: Ramey Kemp & Associates, Inc. \$90,000.00
 2%
 SPSF Utilization: Southeastern Right of Way, LLC \$90,000.00
 2%
 DBE/WBE/SPSF Utilization: Dovetail Cultural Resource Group, Inc. \$90,000.00
 2%

Description of Work: Divisions 1, 2, 3, 4, and 6 Planning and Design LSC
 Firm: RS&H Architects-Engineers-Planners, Inc., Charlotte, NC
 Original Engineering Fee: \$3,000,000.00
 Supplemental Fee: \$1,000,000.00
 SPSF Utilization: Carolina Ecosystems, Inc. \$25,000.00

DBE/WBE/SPSF Utilization:	2.5% Planning Communities, LLC \$50,000.00
SPSF Utilization:	5% So-Deep US, PC \$25,000.00
SPSF Utilization:	2.5% Commonwealth Heritage Group, Inc. \$20,000.00
Description of Work:	Divisions 1, 2, 3, 4, and 6 Planning and Design LSC
Firm:	Stantec Consulting Services, Inc., Raleigh, NC
Original Engineering Fee:	\$3,000,000.00
Supplemental Fee:	\$2,000,000.00
DBE/WBE/SPSF Utilization:	Falcon Engineering, Inc. \$40,000.00
SPSF Utilization:	2% Patriot Transportation Engineering, PLLC \$20,000.00
DBE/WBE/SPSF Utilization:	1% Anne Morris and Associates, LLC \$20,000.00
SPSF Utilization:	1% So-Deep US, PC \$40,000.00
DBE/MBE/SPSF Utilization:	2% Mekuria Engineering, Inc. \$20,000.00
DBE/WBE/SPSF Utilization:	1% Wetherill Engineering, Inc. \$40,000.00
DBE/SPSF Utilization:	2% MI Engineering, PLLC \$40,000.00
Description of Work:	Divisions 1, 2, 3, 4, and 6 Planning and Design LSC
Firm:	Wetherill Engineering, Inc., Raleigh, NC
Original Engineering Fee:	\$3,000,000.00
Supplemental Fee:	\$4,000,000.00
DBE/WBE/SPSF Utilization:	100%
Description of Work:	Divisions 1, 2, 3, 4, and 6 Planning and Design LSC
Firm:	SEPI Engineering & Construction, Inc., Raleigh, NC
Maximum Engineering Fee:	\$3,000,000.00
Supplemental Fee:	\$2,000,000.00
DBE/MBE/SPSF Utilization:	Neighborhood Solutions, LLC \$40,000.00
	2%
Description of Work:	Divisions 1, 2, 3, 4, and 6 Planning and Design LSC
Firm:	Calyx Engineers and Consultants, Inc., Raleigh, NC
Maximum Engineering Fee:	\$3,000,000.00
Supplemental Fee:	\$2,000,000.00
DBE/WBE/SPSF Utilization:	100%
Description of Work:	Divisions 1, 2, 3, 4, and 6 Planning and Design LSC
Firm:	CDM Smith, Inc., Raleigh, NC
Maximum Engineering Fee:	\$3,000,000.00

Supplemental Fee:	\$1,000,000.00
SPSF Utilization:	Carolina Land Acquisitions, Inc. \$10,000.00 1%
SPSF Utilization:	Environmental Services, Inc. \$30,000.00 3%
SPSF Utilization:	So-Deep US, PC \$30,000.00 3%
DBE/MBE/SPSF Utilization:	Simpson Engineers & Associates, PC \$30,000.00 3%
DBE/WBE/SPSF Utilization:	Morton & Morton Design Services, PLLC \$10,000.00 1%
SPSF Utilization:	Summit Design and Engineering Services, PLLC \$150,000.00 15%
DBE/SPSF Utilization:	MI Engineering, PLLC \$50,000.00 5%
Description of Work:	Divisions 1, 2, 3, 4, and 6 Planning and Design LSC
Firm:	STV Engineers, Inc., Charlotte, NC
Maximum Engineering Fee:	\$3,000,000.00
Supplemental Fee:	\$1,000,000.00
DBE/WBE/SPSF Utilization:	Calyx Engineers & Consultants, Inc. \$200,000.00 20%
DBE/WBE/SPSF Utilization:	Falcon Engineering, Inc. \$50,000.00 5%
Description of Work:	Divisions 10-14 Planning and Design LSC
Firm:	MA Engineering Consultants, Inc., Cary, NC
Original Engineering Fee:	\$3,000,000.00
Supplemental Fee:	\$1,000,000.00
DBE/MBE/SPSF Utilization:	100%
Description of Work:	Divisions 10-14 Planning and Design LSC
Firm:	Calyx Engineers and Consultants, Inc., Raleigh, NC
Original Engineering Fee:	\$3,000,000.00
Supplemental Fee:	\$2,000,000.00
DBE/WBE/SPSF Utilization:	100%
Description of Work:	Divisions 10-14 Planning and Design LSC
Firm:	DRMP, Inc., Charlotte, NC
Maximum Engineering Fee:	\$3,000,000.00
Supplemental Fee:	\$1,000,000.00
DBE/WBE/SPSF Utilization:	Three Oaks Engineering, Inc. \$30,000.00 3%
DBE/WBE/SPSF Utilization:	Chipleay Consulting, LLC \$20,000.00 2%
SPSF Utilization:	Donal Simpson, FAIA, AICP \$20,000.00 4%
SPSF Utilization:	Environmental Services, Inc. \$30,000.00 3%

SPSF Utilization:	Hinde Engineering, Inc. \$50,000.00 5%
SPSF Utilization:	Sungate Design Group, PA \$100,000.00 10%
Description of Work:	Divisions 10-14 Planning and Design LSC
Firm:	HNTB of North Carolina, PC, Raleigh, NC
Maximum Engineering Fee:	\$3,000,000.00
Supplemental Fee:	\$3,000,000.00
SPSF Utilization:	Commonwealth Heritage Group, Inc. \$30,000.00 1%
DBE/WBE/SPSF Utilization:	Three Oaks Engineering, Inc. \$90,000.00 3%
DBE/MBE/SPSF Utilization:	MA Engineering Consultants, Inc. \$150,000.00 5%
SPSF Utilization:	Carolina Land Acquisitions, Inc. \$30,000.00 1%
Description of Work:	Divisions 10-14 Planning and Design LSC
Firm:	RS&H Architects-Engineers-Planners, Inc., Charlotte, NC
Original Engineering Fee:	\$3,000,000.00
Supplemental Fee:	\$2,000,000.00
SPSF Utilization:	Carolina Ecosystems, Inc. \$60,000.00 3%
SPSF Utilization:	Progressive Design Group, Inc. \$60,000.00 3%
DBE/WBE/SPSF Utilization:	Planning Communities, LLC \$60,000.00 3%
SPSF Utilization:	Commonwealth Heritage Group, Inc. \$60,000.00 3%
Description of Work:	Divisions 10-14 Planning and Design LSC
Firm:	Rummel, Klepper & Kahl, LLP, Raleigh, NC
Original Engineering Fee:	\$3,000,000.00
Supplemental Fee:	\$2,000,000.00
DBE/WBE/SPSF Utilization:	Falcon Engineering, Inc. \$100,000.00 5%
SPSF Utilization:	Ramey & Kemp Associates, Inc. \$20,000.00 1%
DBE/WBE/SPSF Utilization:	New South Associates, Inc. \$20,000.00 1%
DBE/MBE/SPSF Utilization:	MM/I and Associates, LLC \$20,000.00 1%
Description of Work:	Divisions 10-14 Planning and Design LSC
Firm:	Stantec Consulting Services, Inc., Raleigh, NC
Original Engineering Fee:	\$3,000,000.00
Supplemental Fee:	\$2,000,000.00
SPSF Utilization:	Patriot Transportation Engineering, PLLC \$80,000.00

	4%
DBE/WBE/SPSF Utilization:	Falcon Engineering, Inc. \$80,000.00
	4%
DBE/WBE/SPSF Utilization:	Anne Morris and Associates, LLC \$20,000.00
	1%
Description of Work:	Divisions 10-14 Planning and Design LSC
Firm:	Stewart, Raleigh, NC
Original Engineering Fee:	\$3,000,000.00
Supplemental Fee:	\$1,000,000.00
SPSF Utilization:	100%
Description of Work:	Divisions 10-14 Planning and Design LSC
Firm:	STV Engineers, Inc., Charlotte, NC
Original Engineering Fee:	\$3,000,000.00
Supplemental Fee:	\$3,000,000.00
DBE/WBE/SPSF Utilization:	Chiplely Consulting, LLC \$150,000.00
	5%
DBE/WBE/SPSF Utilization:	Ecological Engineering, LLP \$150,000.00
	5%
DBE/WBE/SPSF Utilization:	New South Associates, Inc. \$150,000.00
	5%
SPSF Utilization:	Progressive Design Group, Inc. \$150,000.00
	5%
Description of Work:	Divisions 10-14 Planning and Design LSC
Firm:	TGS Engineers, Shelby, NC
Original Engineering Fee:	\$3,000,000.00
Supplemental Fee:	\$3,000,000.00
SPSF Utilization:	100%
Description of Work:	Divisions 10-14 Planning and Design LSC
Firm:	Vaughn & Melton Consulting Engineers, Asheville, NC
Original Engineering Fee:	\$3,000,000.00
Supplemental Fee:	\$3,000,000.00
DBE/WBE/SPSF Utilization:	Wetherill Engineering, Inc. \$240,000.00
	8%
SPSF Utilization:	Mattern & Craig, Inc. \$60,000.00
	2%
SPSF Utilization:	Environmental Corporation of North Carolina, Inc. \$60,000.00
	2%
Description of Work:	Divisions 10-14 Planning and Design LSC
Firm:	Wetherill Engineering, Inc., Raleigh, NC
Maximum Engineering Fee:	\$3,000,000.00
Supplemental Fee:	\$3,000,000.00
DBE/WBE/SPSF Utilization:	100%
Description of Work:	Divisions 10-14 Planning and Design LSC

Firm:	WSP USA CORP, Cary, NC
Original Engineering Fee:	\$3,000,000.00
Supplemental Fee:	\$2,000,000.00
SPSF Utilization:	Commonwealth Heritage Group, Inc. \$100,000.00 5%
DBE/WBE/SPSF Utilization:	Chiplely Consulting, LLC \$100,000.00 5%
DBE/WBE/SPSF Utilization:	Falcon Engineering, Inc. \$100,000.00 5%
DBE/WBE/SPSF Utilization:	Morton & Morton Design Services, PLLC \$60,000.00 3%

Transit

Rail
 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 Rail Consulting and Facilitation Services on an as needed basis for various federal-aid and state funded projects to support the Rail Division. These contracts will expire August 31, 2019 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:	2016 Rail Consulting and Facilitation Services LSC
Firm:	Eckel & Vaughan, LLC, Raleigh, NC
Maximum Engineering Fee:	\$2,000,000.00
SPSF Utilization:	100%

Description of Work:	2016 Rail Consulting and Facilitation Services LSC
Firm:	Fountainworks, Inc., Raleigh, NC
Maximum Engineering Fee:	\$2,000,000.00
SPSF Utilization:	Lyerly Agency, Inc. \$400,000.00 20%

Description of Work:	2016 Rail Consulting and Facilitation Services LSC
Firm:	Simpson Engineers & Associates, PC, Cary, NC
Maximum Engineering Fee:	\$2,000,000.00
DBE/MBE/SPSF Utilization :	100%

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

Project:	49999.1.STR24 Wake County Public Information Display Systems (PIDS)
Description of Work:	Bidding and Construction Administration Services PIDS at Three NC Train Stations
Firm:	David E. Gall, Architect, PA, Winston-Salem, NC

Original Engineering Fee: \$ 456,291.91
 Previous Supplemental Fee: \$ 308,398.49
 Supplemental Fee: \$ 248,043.89
 Supplemental Work: Construction Administration
 DBE/MBE/SPSF Utilization: Simpson Engineers & Associates, PC \$30,240.28
 12%

Planning & Programming

Feasibility Studies

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 Feasibility Studies LSC
 Firm: RK&K, LLP, Raleigh, NC
 Original Supplemented Engineering Fee: \$500,000.00
 Supplemental Fee: \$170,000.00
 SPSF Utilization: 0%

Approval - Secondary Road Improvement Projects (Highway and Trust Funds)

The Board concurred with the staff recommendations and delegated authority to the Secretary to award the following:

County	SR No./ Road Name	Description	Amount
Guilford Div. 7	SR 2329 Spencer Dixon Road	Turn Lane Construction. WBS 7C.041255	\$20,000.00
Caldwell Div. 11	SR 1848 Blueberry Drive	GDB&P. WBS 11C.014097	\$287,571.43
Caldwell Div. 11	SR 1890 Blue Dove Lane	GDB&P. WBS 11C.014096	\$141,000.00

Deletions

County	SR No.	Reason	Amount
Currituck Div. 1	SR 1217 Cooper Garrett Road	GDB&P. Unavailable Right of Way. WBS 1C.027071	-\$119,929.91

October 2016 Item E Summary:

3	Projects to Establish Funds	Amount:	\$448,571.43
1	Projects to Delete	Amount:	-\$119,929.91

Approval – Division-wide Small Construction, Statewide Contingency, Public Access, Economic Development

The Board concurred with the staff recommendations and delegated authority to the Secretary to award the following:

	Description	Type	Amount
Div 1 Dare	Town of Southern Shores – WBS 44788 was established (06/16) for installation of new storm drainage culverts under NC-12 and construction of storm water retention basin in southeast quadrant of NC-12 and East Dogwood Ln Increase funds	Contingency <hr/> TOTAL	\$100,000.00 <hr/> \$100,000.00
Div 3 Onslow	Relocate utilities on Bluetop Rd to bring up to minimum maintenance standards WBS 44979	Contingency <hr/> TOTAL	\$30,000.00 <hr/> \$30,000.00
Div 6 Robeson	Grade, drain, base, & pave bus/motorcycle testing area at Lumberton DMV facility WBS 44980	Contingency <hr/> TOTAL	\$119,250.00 <hr/> \$119,250.00
Div 9 Davie	Installation of right and left turn lanes on Baltimore Rd at plant entrance WBS 44971	Public Access Econ Development <hr/> TOTAL	\$150,000.00 \$400,000.00 <hr/> \$550,000.00
Div 12 Cleveland	Install turn lanes at Pinnacle Classical Academy and an interim temporary signal at the intersection of NC-180 and SR 2201/2202 (Joe’s Lake Rd) WBS 44981	Contingency <hr/> TOTAL	\$350,000.00 <hr/> \$350,000.00

Deletions:

Div 9, Rowan County – WBS 43894 was established (05/13) for a Planning and Environmental Study for a new interchange on I-85 at the future relocated SR 1221 (Old Beatty Ford Rd); Funded by an alternate source

Summary:	Number of Projects	5
	Number of Divisions	5
	Small Construction Commitment	\$0.00
	Public Access Commitment	\$150,000.00
	Contingency Commitment	\$599,250.00
	Economic Development	\$400,000.00
	TOTAL	\$1,149,250.00

Approval – Specific Spot Safety Improvement Projects

The Board concurred with the staff recommendations and delegated authority to the Secretary to award the following:

Town/County Division PROJ. CATEGORY	Project Description	Estimated Cost
Durham/ Durham Co. Div. 5 SS-4905CO	WBS 44321.3.1 US 15-501 Business (Mangum Street) at SR 1365 (Morehead Avenue). \$28,000.00 in construction funds has previously been approved for traffic signal revisions. Additional funds are needed due to an increase in construction costs. File 05-14-1248-1	\$32,000.00
Durham/ Durham Co. Div. 5 SS-4905DU	WBS 44932.3.1 US 70 Business (Hillsborough Road) at US 15-501 Southbound ramp. Initial construction funds are needed for turn lane installation. File 05-15-6714C	\$117,000.00
Durham/ Durham Co. Div. 5 SS-4905DU	WBS 44932.2.1 US 70 Business (Hillsborough Road) at US 15-501 Southbound ramp. Initial right of way and utilities funds are needed for turn lane installation. File 05-15-6714R	\$3,000.00
Wake Co. Div. 5 SS-4905DT	WBS 44931.3.1 SR 1163 (Kelly Road) at US 64 Eastbound. Initial construction funds are needed for traffic signal and pavement marking revisions. File 05-15-8126-2C	\$10,000.00
Chatham Co. Div. 8 SS-4908BB	WBS 44807.3.1 SR 1731 (O'Kelly Chapel Road) between NC 751 and SR 1732 (Pittard Sears Road). \$62,000.00 in construction funds has previously been approved for rumble strips installation. Additional funds are needed due to an increase in construction costs. File 08-16-0149-1	\$18,000.00
Jackson Co. Div. 14 SS-4914CN	WBS 44771.3.1 SR 1359 (River Road) from US 23-441 to NC 116 near Sylva. \$90,000.00 in construction funds has previously been approved for guardrail installation. Additional funds are needed due to an increase in construction costs. File 14-16-203-2	\$60,000.00
ITEM L SUMMARY	6 PROJECTS	\$240,000.00

Action Items

Approval – Traffic Noise Policy

A motion was made by Board Member Overholt, seconded by Board Member Palermo, to approve the Traffic Noise Policy (Attachment 1).

Approval – Additions, Abandonments, and Road Name Changes to State

Secondary Road System

A motion was made by Board Member Debnam, seconded by Board Member Palermo, to approve the following proposed additions and abandonments to the State Secondary Road System:

Road Additions:

County	Pet. No.	Length (Miles)	Description	Date of Report
Division 2				
Craven	51187		Quail Woods Subdivision	7/28/16
		0.48	Quail Woods Drive	
		0.25	Covey Court	
		0.40	Finch Lane	
Division 5				
Franklin	51188		Winston Ridge Subdivision	7/28/16
		0.09	Scarlette Bell Drive	
		0.06	Meadowrue Lane	
		0.09	Hawthorne Lane	
Division 6				
Harnett	51189		Colonial Hills Subdivision	8/2/16
		0.24	Colonial Hills Drive, SR 2239 Ext.	
		0.08	Kingston Drive	
		0.04	Belmont Court	
		0.04	Tory Court	
		0.12	Downing Court	
Division 7				
Guilford	51190		Hearthridge Subdivision	7/19/16
		0.15	Hearthridge Court	
Guilford	51191		Turner North Subdivision	8/9/16
		0.07	Deer Stand Court	
		0.06	Turner North Court	
		0.43	Turner North Drive	
Rockingham	51192		Twin Creeks Subdivision	5/19/16
		0.51	Twin Creeks Drive, SR 1231 Ext.	
		0.06	Stoney Ridge Court	
Rockingham	51193		Glenn Farm Estates Subdivision	4/22/16
		0.09	Glenoak Drive	
		0.56	Glenrobin Drive	
		0.07	Glencove Drive	
		0.44	Glendale Circle	

Division 9

Davidson	51194	0.03	Sunset Knolls Subdivision James Street	9/8/16
Road Additions:				
Division 10				
Union	51195	0.36	Weddington Trace Subdivision Oleander Lane	7/15/16
		0.25	Yellowhorn Trail	
		0.10	Smoketree Court	
Division 12				
Iredell	51196	0.33	Bethany Place Subdivision Albany Drive	9/7/16
Division 13				
Buncombe	51197	0.03	Bee Tree Village Cliffside Subdivision Nectar Way	6/28/16
		0.03	Golden Harvest Trail	
		0.05	Bee Tree Way	
Division 14				
Cherokee	51198	0.15	Line Drive	7/8/16
Deletions:				
Division 3				
Onslow	51199	0.12	Portion of SR 1529 Harbor Point Road	8/10/16
Division 12				
Cleveland	51200	0.60	SR 2515 Stadium Drive	9/1/16
Division 13				
Buncombe	51201	0.39	SR 1124 Cole Cove Road	7/20/16

Corrections: Division 9 - Forsyth County – Petition Number 51154 should not have been listed on the August 2016 BOT Agenda.

Summary: Number of Roads Petitioned for Addition – 30
Number of Roads Petitioned for Abandonment – 3

Approval – Public Transportation

A motion was made by Board Member McQueary, seconded by Board Member Brown, to approve the following:

MODIFICATIONS to the Transit 2016-2025 STIP

MODIFICATIONS to the Transit 2016-2025 STIP											
STIP #	Transit Partner	DESCRIPTION	match	FUND	FY16 (000)	FY17 (000)	FY18 (000)	FY19 (000)	FY20 (000)	FY21 (000)	FY22 (000)
TO-4719	Goldsboro Wayne Transportation Authority	Operating Assistance	FUZ	5307	420	420	420	420	420	420	420
			SMAP	S	210	210	210	210	210	210	210
			Local	L	210	210	210	210	210	210	210

		CONTINUED			FY23 (000)						
			FUZ	5307	420						
			SMAP	S	210						
			Local	L	210						

Item I-1A, 1 Projects, Total Federal/State funds \$5,040,000

Approval of Specific State Funds for Construction Projects

A motion was made by Board Member McQueary seconded by Board Member Brown, to approve the following:

Town/ County Division PROJ. CATEGORY	Project Description	Estimated Cost
Carteret Co. Div. 2 R-3307 REGIONAL	WBS 34528.2.1 US 70 from four lanes at Radio Island to US 70 north of Beaufort near SR 1429 (Olga Road). \$5,516,818.00 has previously been approved for right of way and utilities. Funds need to be decreased (\$369,025.25). WBS will be closed. This is a Strategic Transportation Investments Transition project.	-\$369,025.25
Henderson Co. Div. 14 R-5524D DIVISION	WBS 45817.3.4 Construct new access road into Ferncliff Industrial Park. \$765,687.00 has previously been approved for construction. Additional funds are requested.	\$250,000.00
ITEM J SUMMARY	2 PROJECTS	-\$119,025.25

Approval - State Highway Trust Funds - Strategic Transportation Investments

A motion was made by Board Member McQueary, seconded by Board Member Brown, to approve the following:

Town/ County Division PROJ. CATEGORY	Project Description	Estimated Cost
Tyrrell Co. Div. 1 B-5936 STATEWIDE	WBS 46478.3.1 Bridge #7 over Alligator River on US 64. Initial funds are requested for construction.	\$9,900,000.00
Statewide Div. 2 M-0488G REGIONAL	WBS 46404.1.16 Greenville Southwest Bypass - Map Act Lawsuit. Initial funds are requested for preliminary engineering / legal services.	\$200,000.00

Statewide Div. 3 M-0488C REGIONAL	WBS 46404.1.15 Hampstead Bypass - Map Act Lawsuit. Initial funds are requested for preliminary engineering / legal services.	\$200,000.00
Johnston Co. Div. 4 R-5769 DIVISION	WBS 46448.3.1 SR 1913 (Gordon Road) from US 70 Business to proposed NOVO Nordisk facility. Various roadway improvements including new access road. Initial funds are requested for construction.	\$6,900,000.00
Statewide Div. 6 M-0488E REGIONAL	WBS 46404.1.11 I-295, Fayetteville Outer Loop - Map Act Lawsuit. Initial funds are requested for preliminary engineering / legal services.	\$200,000.00
Statewide Div. 7 M-0488L REGIONAL	WBS 46404.1.12 Greensboro Western Loop Map Act lawsuit. Initial funds are requested for preliminary engineering / legal services.	\$200,000.00
Statewide Div. 7 M-0488M REGIONAL	WBS 46404.1.13 Greensboro Eastern Loop Map Act lawsuit. Initial funds are requested for preliminary engineering / legal services.	\$200,000.00
Statewide Div. 9 M-0488I REGIONAL	WBS 46404.1.9 Winston-Salem Northern Beltway Map Act Lawsuit. Initial funds are requested for preliminary engineering / legal services.	\$200,000.00
Statewide Div. 9 M-0488J REGIONAL	WBS 46404.1.10 Winston-Salem Northern Beltway Eastern Section Map Act lawsuit. Initial funds are requested for preliminary engineering / legal services.	\$200,000.00
Anson Co. Div. 10 R-5708 REGIONAL	WBS 46380.3.1 US 74 at intersection of US 74 and SR 1714 (Stanback Ferry Road). Initial funds are requested for construction.	\$1,200,000.00
Kannapolis/ Cabarrus Co. Div. 10 U-3440 REGIONAL	WBS 39010.1.R2 NC 3 from proposed West Side Bypass (Project U-2009) to SR 1691 (Loop Road). \$3,109,139.00 has previously been approved for preliminary engineering. Additional funds are requested. This is a Strategic Transportation Investments Transition project.	\$300,000.00
Huntersville/ Mecklenburg Co. Div. 10 U-5114 REGIONAL	WBS 42376.2.1 Intersection of US 21 and Gilead Road. Construct intersection improvements, including bicycle and pedestrian accommodations. Initial funds are requested for full right of way. This is a Strategic Transportation Investments Transition project.	\$3,350,000.00

Huntersville/ Mecklenburg Co. Div. 10 U-5114 REGIONAL	WBS 42376.2.2 Intersection of US 21 and Gilead Road. Construct intersection improvements, including bicycle and pedestrian accommodations. Initial funds are needed for utilities. This is a Strategic Transportation Investments Transition project.	\$775,000.00
Statewide Div. 12 M-0488A REGIONAL	WBS 46404.1.14 Shelby Bypass - Map Act Lawsuit. Initial funds are requested for preliminary engineering / legal services.	\$200,000.00
Statewide M-0515 STATEWIDE	WBS 46880.2.1 Review of Local Public Agency (LPA) projects by the appraisal section. Initial funds are requested for right of way associated with the review of local public agency (LPA) projects by the appraisal section.	\$250,000.00
STATEWIDE STRATEGIC TRANSPORTATION INVESTMENTS	2 PROJECTS	\$10,150,000.00
REGIONAL STRATEGIC TRANSPORTATION INVESTMENTS	12 PROJECTS	\$7,225,000.00
DIVISION STRATEGIC TRANSPORTATION INVESTMENTS	1 PROJECTS	\$6,900,000.00
STRATEGIC TRANSPORTATION INVESTMENTS	15 PROJECTS	\$24,275,000.00

Approval - State Highway Trust Funds - Intrastate System

A motion was made by Board Member Debnam, seconded by Board Member Palermo, to approve the following:

Town/ County Division PROJ. CATEGORY	Project Description	Estimated Cost
Currituck Co. Div. 1 R-2576 SW/DIV	WBS 34470.2.1 Mid-Currituck Bridge from Coinjock to Corolla. \$6,938,076.00 has previously been approved for appraisal and advanced acquisition of specific parcels. Funds are requested for appraisal of Specific Parcel 903 using Division Tier funding.	\$25,000.00
Wilmington/ New Hanover Co. Div. 3 U-4751 STATEWIDE	WBS 40191.2.1 SR 1409 (Military Cutoff Road Extension) from SR 1409 (Military Cutoff Road) to US 17 in Wilmington. \$55,050,000.00 has previously been approved for acquisition of specific parcels. Additional funds are requested.	\$3,500,000.00
Stanly Co. Div. 10 R-2530B	WBS 34446.1.6 NC 24 - 27 from Bird Road in Albemarle to west of the Pee Dee River. \$906,668.00 has previously been approved for preliminary	\$620,000.00

Safety

Brunswick Co. W-5601DA STATEWIDE	50138.3.106, HSIP-0017(153) US 17 and SR 1357 (Smith Avenue). Construction funds are needed for safety improvements.	\$100,000.00 Cost \$90,000.00 Fed. \$10,000.00 State
New Hanover Co. SS-4903CO DIVISION	44933.1.1, HSIP-1272(006) SR 1272 (New Centre Drive) and Dapple Court (Non-System). Funds are needed for preliminary engineering.	\$15,038.00 Cost \$13,534.00 Fed. \$1,504.00 State
Onslow Co. SS-4903CP DIVISION	44934.1.1, HSIP-1119(008) SR 1119 (High Hill Road). Funds are needed for preliminary engineering.	\$3,500.00 Cost \$3,150.00 Fed. \$350.00 State
Onslow Co. SS-4903CR STATEWIDE	44970.1.1, HSIP-0024(080) NC 24 and SR 1509 (Queens Creek Road). Funds are needed for preliminary engineering.	\$3,625.00 Cost \$3,263.00 Fed. \$362.00 State
Onslow Co. W-5203L DIVISION	45333.3.12, HRRR-1519(005) SR 1519 (Old Folkstone Road). Construction funds are needed for safety improvements.	\$1,210,000.00 Cost \$1,089,000.00 Fed. \$121,000.00 State
Onslow Co. W-5203W STATEWIDE	45333.3.FS23, HSIP-0017(137) US 17 at SR 1327 (Kellum Loop Road) and SR 1410 (Halltown Road). Construction funds are needed for safety improvements.	\$1,061,000.00 Cost \$954,900.00 Fed. \$106,100.00 State
Sampson Co. SS-4903CQ REGIONAL	44969.1.1, HSIP-0013(065) US 13 and US 421 / NC 242. Funds are needed for preliminary engineering.	\$5,325.00 Cost \$4,793.00 Fed. \$532.00 State

Rural

New Hanover Co. R-4436CG REGIONAL	34625.2.59, STP-0132(010) Construction of two (2) filtration basins to improve water quality along NC 132 (College Road) at the crossing of Hewlett's Creek in New Hanover County. \$55,000 has previously been approved for construction. Reduce Funds. Project will not be constructed due to impact by the City of Wilmington multi-use path. Funding will not be needed, WBS 34625.2.59 to be closed.	-\$55,000.00 Cost -\$44,000.00 Fed. -\$11,000.00 State
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Division 4 Bridge

Halifax Co. B-5660 DIVISION	45615.2.1, BRZ-1100(036) Replace Bridge #65 over Deep Creek on SR 1100 (Combined with B-5657: Replace Bridge #15 over Beaverdam Swamp on SR 1001), (Combined with B-5658: Replace #126 over Big Peachtree Creek on SR 1310). Initial funds are needed for right of way. This is a Design-Build Project.	\$198,000.00 Cost \$158,400.00 Fed. \$39,600.00 State
Halifax Co. B-5660 DIVISION	45615.3.1, BRZ-1100(036) Replace Bridge #65 over Deep Creek on SR 1100 (Combined with B-5657: Replace Bridge #15 over Beaverdam Swamp on SR 1001), (Combined with B-5658: Replace #126 over Big Peachtree	\$3,850,000.00 Cost \$3,080,000.00 Fed. \$770,000.00 State

Creek on SR 1310). Funds are needed for construction based on the estimate from the 12-Month Tentative Letting List published on August 17, 2016. **This is a Design-Build Project.**

Safety

Halifax Co. / Nash Co. SS-4904DZ REGIONAL	44956.1.1, HSIP-0097(042) NC 97 at SR 1001 (Old Bailey Highway) in Nash County; and NC 4 / 48 at NC 4 / 561 in Halifax County. Funds are needed for preliminary engineering.	\$3,000.00 Cost \$2,700.00 Fed. \$300.00 State
Johnston Co. SS-4904DV REGIONAL	44935.1.1, HSIP-0096(023) NC 96 at SR 1178 (Keen Road). Funds are needed for preliminary engineering.	\$5,000.00 Cost \$4,500.00 Fed. \$500.00 State
Johnston Co. SS-4904DY REGIONAL	44938.1.1, HSIP-0042(071) NC 42 at NC 50; NC 50 at SR 1524 (Old Drug Store Road.); NC 42 at the US 70 Bypass Westbound Ramps; NC 42 at the US 70 Bypass Eastbound Ramps; and NC 42 at SR 1556 (Government Road.) Funds are needed for preliminary engineering.	\$14,500.00 Cost \$13,050.00 Fed. \$1,450.00 State
Nash Co. SS-4904DU REGIONAL	44957.1.1, HSIP-0048(008) NC 48 between 0.06 mile south and 0.31 mile north of SR 1536 (Boseman Road), a length of 0.37 mile; and SR 1173 (Honeycutt Street) between US 301 and 0.10 mile southeast of US 301, a length of 0.10 mile. Funds are needed for preliminary engineering.	\$10,600.00 Cost \$9,540.00 Fed. \$1,060.00 State
Wayne Co. SS-4904DW DIVISION	44936.1.1, HSIP-1958(006) SR 1958 (Bennetts Bridge Road) between the Duplin County Line and 0.27 mile north of the Duplin County Line, a length of 0.27 mile. Funds are needed for preliminary engineering.	\$35,000.00 Cost \$31,500.00 Fed. \$3,500.00 State
Wayne Co. SS-4904DX REGIONAL	44937.1.1, HSIP-0111(024) Four signalized intersections on NC 111 between NC 581 and Southeast Drive. Funds are needed for preliminary engineering.	\$15,000.00 Cost \$13,500.00 Fed. \$1,500.00 State
Wayne Co. W-5601HK REGIONAL	50138.3.220, HSIP-0581(029) NC 581 at SR 1342 (Memorial Church Road). Construction funds are needed for safety improvements.	\$51,000.00 Cost \$45,900.00 Fed. \$5,100.00 State

Division 5 Interstate

Granville Co. I-5843 STATEWIDE	53049.3.1, NHPP-0085(016) I-85 north of NC 56 in Granville County to US 158 in Vance County. Construction funds are needed for structure and signing rehabilitation.	\$3,155,000.00 Cost \$2,524,000.00 Fed. \$631,000.00 State
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Congestion Mitigation

Durham Co. C-5572	46401.3.1, CMS-0505(075) West Ellerbe Creek Greenway, Construction Phase II, Westover	\$1,352,000.00 Cost \$1,081,600.00 Fed.
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EXEMPT	Park to Stadium Drive Rail in Durham. Construction funds are needed for multi-use path.	\$270,400.00	Local
Wake Co. C-5164 EXEMPT	46229.3.F1, CMS-0527(010) Smith and Sanford Creek Greenway. Funds are needed for construction for greenway and sidewalks.	\$1,200,000.00 \$600,000.00 \$600,000.00	Cost Fed. Local
Wake Co. C-5604JA EXEMPT	43714.1.6, CMAQ-0510(009) Utley Creek Greenway Connection - Town of Holly Springs. Funds are needed for preliminary engineering.	\$89,000.00 \$71,200.00 \$17,800.00	Cost Fed. Local

Enhancement

Wake Co. ER-5600EA DIVISION	46305.3.26, STP-0064(188) Landscape planting and enhancement for US 64 Business and Wendell Falls Parkway at US 64. Funds are needed for construction for landscape.	\$100,000.00 \$80,000.00 \$20,000.00	Cost Fed. State
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Urban

Wake Co. U-5118AF DIVISION	42379.3.31, STPDA-0501(036) Kelly Road at Olive Chapel Road. Funds are needed for construction for operational improvements and a sidewalk.	\$424,800.00 \$339,840.00 \$84,960.00	Cost Fed. Local
Wake Co. U-5530NA DIVISION	44111.3.10, TAPDA-0517(012) Research Triangle Park (RTP) / Morrisville Davis Drive Trail (RTF). Funds are needed for construction for a multi-use trail.	\$1,650,000.00 \$990,000.00 \$660,000.00	Cost Fed. Local

Safety

Durham Co. SS-4905DU REGIONAL	44932.1.1, HSIP-0070(203) US 70 Business (Hillsborough Road) at US 15-501 Southbound Ramp. Funds are needed for preliminary engineering.	\$20,000.00 \$18,000.00 \$2,000.00	Cost Fed. State
Wake Co. SS-4905DW DIVISION	44941.1.1, HSIP-1959(006) SR 1959 (Miami Boulevard) at SR 1954 (Ellis Road). Funds are needed for preliminary engineering.	\$2,500.00 \$2,250.00 \$250.00	Cost Fed. State
Durham Co. SS-4905DY DIVISION	44943.1.1, HSIP-1118(009) SR 1118 (Fayetteville Road) at Cook Road / Hillside High School. Funds are needed for preliminary engineering.	\$2,500.00 \$2,250.00 \$250.00	Cost Fed. State
Wake Co. SS-4905DS REGIONAL	44939.1.1, HSIP-0401(279) US 401 at SR 2108 / SR 2036 (New Hope Road) and US 401 at Calvary Drive. Funds are needed for preliminary engineering.	\$5,000.00 \$4,500.00 \$500.00	Cost Fed. State
Wake Co. SS-4905DT STATEWIDE	44931.1.1, HSIP-1163(012) SR 1163 (Kelly Road) at US 64 Eastbound in Wake County. Funds are needed for preliminary engineering.	\$2,500.00 \$2,250.00 \$250.00	Cost Fed. State
Wake Co. SS-4905DX DIVISION	44942.1.1, HSIP-2713(002) SR 2713 (Vandora Springs Road) at SR 2812 (Timber Drive). Funds are needed for preliminary engineering.	\$5,000.00 \$4,500.00 \$500.00	Cost Fed. State
Wake Co.	44944.1.1, HSIP-1625(007)	\$6,000.00	Cost

SS-4905DZ DIVISION	SR 1625 (Green Level Church Road) at Dennison Lane / Jewel Creek Drive. Funds are needed for preliminary engineering.	\$5,400.00 Fed. \$600.00 State
Wake Co. SS-4905EA REGIONAL	44945.1.1, HSIP-0054(027) NC 54 (Northwest Maynard Road) at SR 1653 (Evans Road). Funds are needed for preliminary engineering.	\$3,000.00 Cost \$2,700.00 Fed. \$300.00 State
Wake Co. SS-4905ED DIVISION	44958.1.1, HSIP-1006(048) SR 1006 (Old Stage Road) at SR 1010 (Ten Ten Road). Funds are needed for preliminary engineering.	\$45,000.00 Cost \$40,500.00 Fed. \$4,500.00 State
Wake Co. W-5205S DIVISION	45335.3.20, HSIP-1006(044) SR 1006 (Old Stage Road) from NC 42 to the Johnston County Line. Construction funds are needed for safety improvements.	\$1,200,000.00 Cost \$1,080,000.00 Fed. \$120,000.00 State
Wake Co. W-5601EI DIVISION	50138.3.139, HSIP-1393(005) SR 1393 (Bass Lake Road) at SR 1399 (James Slaughter Road). Funds are needed for construction for safety improvements.	\$44,500.00 Cost \$40,050.00 Fed. \$4,450.00 State
Wake Co. M-0414EA DIVISION	42080.1.124, BRZ-NBIS(013) Municipal Bridge Inspection - 8 Bridges within the Municipality of Holly Springs. Funds are needed for preliminary engineering.	\$13,127.00 Cost \$10,502.00 Fed. \$2,625.00 Local

Bicycle and Pedestrian

Durham Co. EB-5703 DIVISION	51049.1.1, TAP-0505(077) Lasalle Street from Kangaroo Drive to Sprunt Avenue in Durham. Funds are needed for preliminary engineering.	\$85,000.00 Cost \$68,000.00 Fed. \$17,000.00 Local
Durham Co. EB-5704 DIVISION	51050.1.1, TAP-0505(076) Raynor Street from North Miami Boulevard to North Hardee Street in Durham. Funds are needed for preliminary engineering.	\$50,000.00 Cost \$40,000.00 Fed. \$10,000.00 Local
Durham Co. EB-5720 DIVISION	50416.1.1, TAP-0505(080) Bryant Bridge Trail - NC 55 to Kelly Bryant Bridge in Durham. Funds are needed for preliminary engineering.	\$175,000.00 Cost \$140,000.00 Fed. \$35,000.00 Local
Raleigh/ Wake Co. EB-5718 DIVISION	50414.1.F1, TAP-1012(010) SR 1012 (Western Boulevard) construct bicycle / pedestrian tunnel immediately west of SR 1321 (Avent Ferry Road) in Raleigh. Funds are needed for preliminary engineering.	\$1,000,000.00 Cost \$800,000.00 Fed. \$200,000.00 Local
Wake Co. U-5530GB DIVISION	44111.3.11, STPDA-0520(054) Construct a sidewalk along approximately 0.5 miles of Bridge Street crossing over the Norfolk Southern Railway in Fuquay-Varina. Funds are needed for construction for pedestrian crossing.	\$654,200.00 Cost \$523,360.00 Fed. \$130,840.00 Local

Division 6 Enhancement

Columbus Co. ER-5600FA REGIONAL	46305.3.4, STP-0701(032) Ornamental Planting along US 701, Tabor City in Columbus County. Funds are needed for construction for landscaping.	\$23,000.00 Cost \$18,400.00 Fed. \$4,600.00 State
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Harnett Co.	46305.3.22, STP-0055(062)	\$65,000.00	Cost
ER-5600FB	Intersection of NC 55 and NC 210 in the Town of Angier.	\$52,000.00	Fed.
REGIONAL	Funds are needed for construction for landscaping.	\$13,000.00	State

Urban

Cumberland Co.	34817.2.FR14, NHF-0100(024)	\$18,600,000.00	Cost
U-2519BA	Fayetteville Outer Loop from south of SR 1003 (Camden	\$14,880,000.00	Fed.
REGIONAL	Road) to south of SR 1104 (Strickland Bridge Road). Funds are needed for full right of way.	\$3,720,000.00	State

Cumberland Co.	34817.2.FR15, NHF-0100(025)	\$9,200,000.00	Cost
U-2519BB	Fayetteville Outer Loop from south of SR 1104 (Strickland Bridge	\$7,360,000.00	Fed.
REGIONAL	Road) to south of US 401. Funds are needed for full right of way.	\$1,840,000.00	State

Safety

Cumberland Co.	44948.1.1, HSIP-0210(038)	\$8,500.00	Cost
SS-4906CT	NC 210 at Spring Lake Town Center. Funds are needed for preliminary engineering.	\$7,650.00	Fed.
REGIONAL		\$850.00	State

Cumberland Co.	44852.1.1, HSIP-1400(010)	\$300,000.00	Cost
W-5706A	SR 1400 (Cliffdale Road) from SR 1410 (Bunce Road) westward	\$270,000.00	Fed.
DIVISION	past Reilly Road to the existing grass median in Fayetteville. Funds are needed for preliminary engineering.	\$30,000.00	State

Cumberland Co.	44852.1.2, HSIP-0401(280)	\$130,000.00	Cost
W-5706B	US 401 (Ramsey Street) at SR 2523 (Bienville Drive). Funds are	\$117,000.00	Fed.
REGIONAL	needed for preliminary engineering.	\$13,000.00	State

Harnett Co.	50138.2.82, HSIP-1229(015)	\$35,000.00	Cost
W-5601CC	SR 1229 (McDouglad Road) curve with culvert located east	\$31,500.00	Fed.
DIVISION	of SR 1251. Funds are needed for full right of way and utilities.	\$3,500.00	State

Robeson Co.	44949.1.1, HSIP-2207(003)	\$50,000.00	Cost
SS-4906CU	SR 2207 (Popes Crossing Road) at SR 2215 / SR 2289 (Alamac	\$45,000.00	Fed.
DIVISION	Road). Funds are needed for preliminary engineering.	\$5,000.00	State

Division 7

Urban

Orange Co.	34913.3.2, STP-1733(018)	\$58,645.00	Cost
U-3306(L)	SR 1733 (Weaver Dairy Road) from NC 86 to SR 1734 (Erwin	\$46,916.00	Fed.
DIVISION	Road). Funds are needed for landscaping.	\$11,729.00	State

Bridge

Greensboro /	46311.1.F1, STP-0708(070)	\$272,000.00	Cost
Guilford Co.	Replace Bridge #98 over a Tributary of Horsepen Creek on	\$272,000.00	Fed.
B-5553	Ballenger Road. \$92,000.00 has previously been approved		
DIVISION	for preliminary engineering. Additional funds are requested.		

Safety

Guilford Co.	44950.1.1, HSIP-1541(007)	\$20,000.00	Cost
SS-4907BU	SR 1541 (Tarrant Road) at SR 1541 (Wendover Avenue) in High	\$18,000.00	Fed.
DIVISION	Point. Funds are needed for preliminary engineering.	\$2,000.00	State

Rail Program

Guilford Co.	43600.1.94, RR-000S(862)	\$20,000.00	Cost
Z-5400GQ	Railway-Highway Grade Crossing Safety Project. SR 3307	\$18,000.00	Fed.
DIVISION	(Riverdale Road) at Norfolk Southern Tracks; Crossing #722 170N near Pleasant Garden. Funds are needed for preliminary engineering.	\$2,000.00	State

Bicycle and Pedestrian

Greensboro/ Guilford Co.	46297.3.F3, TAP-0708(071)	\$100,000.00	Cost
U-5532B	Phillips Avenue sidewalk improvements. \$280,000.00 has	\$80,000.00	Fed.
DIVISION	previously been approved for construction. Additional funds are requested.	\$20,000.00	Local

**Division 8
Enhancement**

Lee Co.	46305.3.25, STP-0015(053)	\$53,000.00	Cost
ER-5600HD	Landscaping on the bridge slopes of US 1 at US 15-501 (Hawkins	\$42,400.00	Fed.
DIVISION	Avenue) in Lee County. Funds are needed for construction for landscaping.	\$10,600.00	State

Safety

Chatham Co.	44954.1.1, HSIP-0015(054)	\$2,500.00	Cost
SS-4908BH	US 15 / 501 at Lowes Drive / Powell Place Lane. Funds are	\$2,250.00	Fed.
REGIONAL	needed for preliminary engineering.	\$250.00	State

Hoke Co.	44854.1.1, HSIP-0015(055)	\$60,000.00	Cost
W-5708A	US 15 / 501 at SR 1225 (Ashemont Road). Funds are needed for	\$54,000.00	Fed.
REGIONAL	preliminary engineering.	\$6,000.00	State

Richmond Co.	44953.1.1, HSIP-0001(150)	\$5,000.00	Cost
SS-4908BG	US 1 South of SR 1475 (McDonald Church Road) in Hoffman.	\$4,500.00	Fed.
STATEWIDE	Funds are needed for preliminary engineering.	\$500.00	State

**Division 9
Enhancement**

Forsyth Co.	40278.3.3, STP-2643(007)	\$265,769.00	Cost
U-4909(L)	SR 2643 (Union Cross Road) from SR 2691 (Wallburg Road)	\$212,615.00	Fed.
DIVISION	to SR 2632 (Sedge Garden Road). Funds are needed for construction for landscaping.	\$53,154.00	State

Urban

Winston-Salem / Forsyth Co.	34839.2.13, HPP-0918(046)	\$110,026.00	Cost
U-2579E	Winston-Salem Northern Beltway (Eastern Section)	\$88,021.00	Fed.
	from SR 2211 (Baux Mountain Road) to NC 8. Additional	\$22,005.00	State

STATEWIDE funds are needed for right of way for Advance Acquisition of SP 900 (Property of Frances Hopkins Estate).

Safety

Davidson Co. W-5601CF REGIONAL	50138.2.85, HSIP-0085(011) I-85 Business from SR 1797 (Evans Road) to SR 1963 (Moose Lodge Road). Funds are needed for full right of way.	\$15,000.00 Cost \$13,500.00 Fed. \$1,500.00 State
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Forsyth Co. SS-4909BT STATEWIDE	44955.1.1, HSIP-4394(001) SR 4394 (Martin Luther King Jr. Drive) at I-40 Business westbound ramps / First Street. SR 4394 (Martin Luther King Jr. Drive) at I-40 Business eastbound ramps / Lowery Street. Funds are needed for preliminary engineering.	\$6,500.00 Cost \$5,850.00 Fed. \$650.00 State
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Forsyth Co. W-5601IG STATEWIDE	50138.3.242, HSIP-0040(048) I-40 between the Davie and Guilford County Lines. Funds are needed for construction for guardrail unit upgrades.	\$406,650.00 Cost \$365,985.00 Fed. \$40,665.00 State
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Rural

Forsyth Co. R-2247CD STATEWIDE	34409.2.25, NHP-0421(088) US 421 Interchange with SR 1891 / Non-system (Peace Haven Road) and approaches on Winston-Salem Northern Beltway, (Combined with R-2247EC: reconstruct interchange at US 52 / Future I-74 Interchange with NC 65 on Winston-Salem Northern Beltway). Initial funds for right of way. This is a Design-Build Project.	\$5,360,000.00 Cost \$4,288,000.00 Fed. \$1,072,000.00 State
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Forsyth Co. R-2247CD STATEWIDE	34409.3.23, NHP-0421(088) US 421 Interchange with SR 1891 / Non-system (Peace Haven Road) and approaches on Winston-Salem Northern Beltway, (Combined with R-2247EC: reconstruct interchange at US 52 / Future I-74 Interchange with NC 65 on Winston-Salem Northern Beltway). Funds are needed for construction based on the estimate from the 12-Month Tentative Letting List published on August 17, 2016. This is a Design-Build Project.	\$42,100,000.00 Cost \$33,594,656.00 Fed. \$8,398,664.00 State \$106,680.00 Local
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Bicycle and Pedestrian

Forsyth Co. EB-5810 DIVISION	44662.1.1, TAP-0918(109) Construct sidewalks on various streets in Winston Salem. Funds are needed for preliminary engineering.	\$20,000.00 Cost \$16,000.00 Fed. \$4,000.00 Local
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Forsyth Co. EB-5811 DIVISION	44663.1.1, TAP-0918(107) New multi-use path construct pedestrian bridge over the Salem Creek Connector. Funds are needed for preliminary engineering.	\$240,000.00 Cost \$192,000.00 Fed. \$48,000.00 Local
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Forsyth Co. EB-5812 DIVISION	44664.1.1, TAP-0918(108) Salem Creek Greenway - Forsyth Technical Community College to existing greenway at Marketplace Mall in Winston-Salem. Funds are needed for preliminary engineering.	\$150,000.00 Cost \$120,000.00 Fed. \$30,000.00 Local
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**Division 10
Interstate**

Mecklenburg Co. I-5768 STATEWIDE	53011.3.1, NHP-0077(008) I-77 from the South Carolina Line to SR 1577 (West Tyvola Road). Funds are needed for construction based on the estimate from the 12-Month Tentative Letting List published on August 17, 2016. This is a Cash Flow project with \$4,450,000.00 in SFY 17 and \$4,450,000.00 in SFY 18.	\$8,900,000.00 Cost \$7,120,000.00 Fed. \$1,780,000.00 State
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Enhancement

Locust/ Stanly Co. SR-5001CH DIVISION	40924.3.84, SRS-1010(013) Sidewalk and pedestrian improvements to serve Locust Elementary School. Construction funds are needed for sidewalk improvements.	\$530,155.00 Cost \$530,155.00 Fed.
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Safety

Cabarrus Co. W-5601ED REGIONAL	50138.3.132, HSIP-0003(010) NC 3 (Mooresville Road) at SR 1616 (Tuckaseegee Road / Rankin Road) near Kannapolis. Funds are needed for construction for safety improvements.	\$30,000.00 Cost \$27,000.00 Fed. \$3,000.00 State
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Charlotte/ Mecklenburg Co. SS-4910CO REGIONAL	44961.1.1, HSIP-0021(025) US 21 (Statesville Road) and NC 24 (WT Harris Boulevard) in Charlotte. Funds are needed for preliminary engineering.	\$10,000.00 Cost \$9,000.00 Fed. \$1,000.00 State
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Charlotte/ Mecklenburg Co. SS-4910CP DIVISION	44962.1.1, HSIP-2805(002) SR 2805 (Harrisburg Road) and SR 2808 (Camp Stewart Road) near Charlotte. Funds are needed for preliminary engineering.	\$5,000.00 Cost \$4,500.00 Fed. \$500.00 State
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Davidson/ Mecklenburg Co. W-5601HR DIVISION	50138.3.227, HSIP-2693(003) SR 2693 (Davidson-Concord Road) and Pierre Reverdy Drive (formerly Poetry Drive). Construction funds are needed for safety improvements.	\$96,000.00 Cost \$86,400.00 Fed. \$9,600.00 State
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Union Co. W-5601AE REGIONAL	50138.3.32, HSIP-0522(005) NC 522 from South Carolina Line northward to SR 2166 (Trinity Church Road). Funds are needed for construction for safety improvements.	\$575,000.00 Cost \$517,500.00 Fed. \$57,500.00 State
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Union Co. W-5601CT STATEWIDE	50138.3.99, HSIP-0074(180) US 74 at SR 1941 (Old Pageland-Monroe Road) in Monroe. Funds are needed for construction for safety improvements.	\$725,000.00 Cost \$652,500.00 Fed. \$72,500.00 State
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Rail Program

Cabarrus Co. P-4405EA DIVISION	42412.3.8, STP-000S(608) Gladys H. Doster private crossing in Harrisburg; intersection of milepost 363.28 and the NCR/Norfolk Southern Railway	\$220,324.00 Cost \$220,324.00 Fed.
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Tracks; Crossing #715 329N. \$386,450.00 has previously been approved for construction. Additional construction funds are needed as requested.

Bicycle and Pedestrian

Albemarle/ Mecklenburg Co. EB-5817 DIVISION	44837.1.1, TAPDA-1001(074) McDowell Creek Greenway, Magnolia Plaza to Westmoreland Road. Funds are needed for preliminary engineering.	\$562,500.00 Cost \$450,000.00 Fed. \$112,500.00 Local
Charlotte/ Mecklenburg Co. EB-5820 DIVISION	44840.1.1, TAPDA-1003(150) Charlotte 'B-Cycle' Expansion. Funds are needed for preliminary engineering.	\$312,500.00 Cost \$250,000.00 Fed. \$62,500.00 Local
Albemarle/ Union Co. EB-5819 DIVISION	44839.1.1, TAPDA-1001(073) Pedestrian and Bicycle facility enhancements in downtown Waxhaw. Funds are needed for preliminary engineering.	\$225,000.00 Cost \$180,000.00 Fed. \$45,000.00 Local

Division 11 Rural

Ashe Co. R-2915C DIVISION	34518.3.FR3, STP-0221(041) US 221 from north of South Fork New River to south of NC 194. Funds are needed for construction based on the estimate from the 12-Month Tentative Letting List published on August 17, 2016. This is a Cash Flow project with \$15,650,000.00 in SFY 17, \$15,650,000.00 in SFY 18, \$15,650,000.00 in SFY 19 and \$15,650,000.00 in SFY 20. This is an 8 week advertisement.	\$62,600,000.00 Cost \$50,080,000.00 Fed. \$12,520,000.00 State
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Bicycle and Pedestrian

Caldwell Co. EB-5806 DIVISION	46457.1.1, STPDA-0321(036) Hospital Avenue from Harper Avenue to US 321 (Blowing Rock Boulevard). Funds are needed for preliminary engineering.	\$300,000.00 Cost \$240,000.00 Fed. \$60,000.00 Local
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Division 12 Safety

Cleveland Co. W-5712A REGIONAL	44858.1.1, HSIP-0180(006) NC 180 (South Post Road) at SR 2202 (Beam Road / Joe's Lake Road). Funds are needed for preliminary engineering.	\$300,000.00 Cost \$270,000.00 Fed. \$30,000.00 State
Cleveland Co. W-5712B REGIONAL	44858.1.2, HSIP-2263(002) SR 2263 (Margrace Road) and SR 2487 (Kings Mountain Boulevard). Funds are needed for preliminary engineering.	\$75,000.00 Cost \$67,500.00 Fed. \$7,500.00 State
Iredell Co. W-5712C REGIONAL	44858.1.3, HSIP-000S(865) Various National Highway System (NHS) routes, from SR 2638 (Salisbury Highway) to US 70, US 64, NC 90, NC 150, I-77, I-40, in Iredell County. Funds are needed for preliminary	\$20,000.00 Cost \$18,000.00 Fed. \$2,000.00 State

engineering.

Iredell Co. W-5712D REGIONAL	44858.1.4, HSIP-0115(010) NC 115 in Iredell County between Mecklenburg County Line and Wilkes County Line. Funds are needed for preliminary engineering.	\$20,000.00 Cost \$18,000.00 Fed. \$2,000.00 State
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Rail Program

Cleveland Co. Z-5400LK DIVISION	43600.1.84, RR-0216(001) Railway-Highway Grade Crossing Safety Project. NC 216 (Piedmont Avenue) at Crossing # 716 257R in Kings Mountain. Funds are needed for preliminary engineering.	\$40,000.00 Cost \$36,000.00 Fed. \$4,000.00 State
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Project Mitigation

Iredell Co. I-3819WM STATEWIDE	34192.4.1, NHP-040-2(171)152 Stream Mitigation Site. Funds are requested for Stream and Benthic Monitoring.	\$100,000.00 Cost \$80,000.00 Fed. \$20,000.00 State
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Bicycle and Pedestrian

Mount Holly/ Gaston Co. EB-5114 DIVISION	45523.3.1, STPEB-1227(008) Mount Holly Riverfront Greenway from Mount Holly Municipal Complex southward to the end of Tuckasegee Park. Funds are needed to construct a greenway. This is a Strategic Transportation Investments Transition project.	\$800,000.00 Cost \$640,000.00 Fed. \$160,000.00 State
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Statesville/ Iredell Co. EB-5818 DIVISION	44841.1.1, TAPDA-0027(018) Greenway Connector under US 21 (Turnersburg Highway). Funds are needed for preliminary engineering.	\$562,500.00 Cost \$450,000.00 Fed. \$112,500.00 Local
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Division 13 Safety

Asheville/ Buncombe Co. SS-4913CK REGIONAL	44963.1.1, HSIP-0019(053) US 19 / 23 (Patton Avenue) at Florida Avenue in Asheville. Funds are needed for preliminary engineering.	\$7,000.00 Cost \$6,300.00 Fed. \$700.00 State
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Buncombe Co. SS-4913CL DIVISION	44964.1.1, HSIP-1004(064) SR 1004 (Newfound Road) from NC 63 to SR 1297 (Browntown Road), near Leicester. Funds are needed for preliminary engineering.	\$24,000.00 Cost \$21,600.00 Fed. \$2,400.00 State
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Buncombe Co. W-5601GL DIVISION	50138.3.195, HSIP-3412(001) SR 3412 (Sandhill Road) at SR 1224 (Sandhill School Road / Oakview Road). Construction funds are needed for safety improvements.	\$95,600.00 Cost \$86,040.00 Fed. \$9,560.00 State
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Burke Co. W-5601GN STATEWIDE	50138.3.197, HSIP-0040(042) I-40 Westbound ramps at SR 1761 (Exit 118). Funds are needed for construction for safety improvements.	\$70,000.00 Cost \$63,000.00 Fed. \$7,000.00 State
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Burke Co. W-5713A DIVISION	44861.3.1, HSIP-1002(049) SR 1002 (Center Street) at SR 1761 (Main Street) in Hildebran. Funds are needed for construction for safety improvements.	\$35,000.00 Cost \$31,500.00 Fed. \$3,500.00 State
Burke Co. W-5713A DIVISION	44861.1.1, HSIP-1002(049) SR 1002 (Center Street) at SR 1761 (Main Street) in Hildebran. Funds are needed for preliminary engineering.	\$5,000.00 Cost \$4,500.00 Fed. \$500.00 State

**Division 14
Safety**

Henderson Co. SS-4914CT DIVISION	44965.1.1, HSIP-1006(049) SR 1006 (Howard Gap Road) at SR 1625 (Whispering Hills Drive) near Hendersonville. Funds are needed for preliminary engineering.	\$5,000.00 Cost \$4,500.00 Fed. \$500.00 State
Henderson Co. SS-4914CU DIVISION	44966.1.1, HSIP-1127(016) SR 1127 (Kanuga Road) at SR 1228 (Jearl Lane) near Hendersonville.	\$5,000.00 Cost \$4,500.00 Fed. \$500.00 State
Macon Co. SS-4914CW STATEWIDE	44968.1.1, HSIP-0023(036) US 23-441 from SR 1331 (Brendle Road) in Macon County northeast to a point 0.4 mile northeast of SR 1300 (Byrd Gap Road) in McDowell County, near Franklin. Funds are needed for preliminary engineering.	\$18,000.00 Cost \$16,200.00 Fed. \$1,800.00 State
Transylvania Co. SS-4914CV REGIONAL	44967.1.1, HSIP-0276(017) US 276 approximately 1.0 mile south of the Haywood County Line, near Brevard. Funds are needed for preliminary engineering.	\$25,000.00 Cost \$22,500.00 Fed. \$2,500.00 State

**Statewide
Planning and Research**

Statewide M-0478D STATEWIDE	50141.1.4, OJT-00JT(021) FY 2016 On-The-Job Training (OJT) Allocation. Funds are needed for training.	\$181,234.00 Cost \$181,234.00 Fed.
Statewide M-0480D STATEWIDE	50142.1.4, DBE-000S(863) Disadvantaged Business Enterprise Training. FY 2016 Disadvantaged Business Enterprise / Supportive Services (DBE / SS) Statements of Work.	\$343,564.00 Cost \$343,564.00 Fed.
Statewide M-0519 EXEMPT	52039.1.1, TMAS-FY15(002) Develop technology and methods to transmit bicycle and pedestrian into Federal Highway Administration (FHWA) Traffic Monitoring Analysis System. Funds are needed for planning and research.	\$35,000.00 Cost \$35,000.00 Fed.

ITEM M SUMMARY - 106 PROJECT(S) - (TOTAL FEDERAL AND STATE) \$171,463,900.00

Funding for Transition Period projects is excluded from the Transportation Investment Strategy Formula.

Approval - Revisions to the 2016-2025 STIPS

A motion was made by Board Member McQueary, seconded by Board Member Brown, to approve the following additions, modifications and deletions to the 2016 – 2025 State Transportation Improvement Plans.

HIGHWAY PROGRAM STIP ADDITIONS

DIVISION 1

F-5702 DARE HYDE Proj. Category DIVISION	NC 12, Hatteras ferry dock in dare county to Ocracoke ferry docks in Hyde County. Construct two passenger ferries to be used along new route. Implement transit system to aid passengers on Ocracoke Island. <u>Add Preliminary Engineering in FY 17 not previously programmed. Project received state appropriated funds to partner with FLAP grant funding.</u>	Engineering FY17	\$926,000 (O)
F-5702A DARE Proj. Category DIVISION	NC 12, Hatteras parking lot improvements and Hatteras loading facility and connectivity measures, dock. <u>Add Construction in FY 17 and FY 18 not previously programmed. Project received FLAP grant.</u>	Construction FY17 FY18	\$130,000 (FLAP) <u>\$640,000 (FLAP)</u> \$770,000
F-5702B HYDE Proj. Category DIVISION	NC 12, Ocracoke dock and pedestrian waiting and access accommodations. <u>Add Construction in FY 17 and FY 18 not previously programmed. Project received FLAP grant.</u>	Construction FY17 FY18 FY18	\$125,000 (FLAP) \$118,000 (FLAP) <u>\$407,000 (O)</u> \$650,000
F-5702C DARE HYDE Proj. Category DIVISION	NC 12, Construct two passenger ferries <u>Add Construction in FY 17 and FY 18 not previously programmed. Project received FLAP grant.</u>	Construction FY17 FY18	\$2,700,000 (FLAP) <u>\$3,000,000 (FLAP)</u> \$5,700,000
F-5702D HYDE Proj. Category DIVISION	NC 12, Construct transit shelters/benches and transit vehicles <u>Add Construction in FY 17 and FY 18 not previously programmed. Project received state appropriated funds to partner with FLAP grant.</u>	Construction FY17 FY18	\$235,000 (O) <u>\$110,000 (O)</u> \$345,000

STIP ADDITIONS

DIVISION 4

I-5976 I-95, Mile marker 115.2 to Construction FY17 \$2,880,000 (NHP)
 WILSON mile marker 122.1.
Proj. Category Bridge preservation.
 STATEWIDE **Add Construction in FY 17**
not previously programmed.

I-5977 I-95, Mile marker 131.6 to Construction FY17 \$660,000 (NHP)
 JOHNSTON mile marker 151.1. I-40, mile
 NASH marker 333.5 to mile marker
Proj. Category 333.9. Bridge preservation.
 STATEWIDE **Add Construction in FY 17**
not previously programmed.

I-5978 I-95, mile marker 90.3 to mile Construction FY17 \$2,500,000 (NHP)
 JOHNSTON marker 91.7.
Proj. Category Bridge preservation.
 STATEWIDE **Add Construction in FY 17**
not previously programmed.

STATEWIDE

M-0515 Various, Right-of-WayBranch, Right-of-WayFY17 \$250,000 (T)
 STATEWIDE review of local public agency FY18 \$250,000 (T)
Proj. Category section. (LPA) projects \$500,000
 DIVISION by the appraisal
Add project at the request
of the Right-of-Way Branch.

STIP MODIFICATIONS

DIVISION 1

B-2500B NC 12, Phase II, long-term Right-of-WayFY17 \$840,000 (NHP)
 DARE improvements at Rodanthe. Construction FY17 \$17,440,000 (ER)
Proj. Category **To allow additional time to** FY17 \$40,693,000 (NHP)
 TRANSITION **develop the design build** FY18 \$17,440,000 (ER)
proposals, move Right-of- Way FY18 \$40,693,000 (NHP)
from FY 16 to FY 17 and FY19 \$17,440,000 (ER)
Construction from FY 16 to FY 17. FY19 \$40,694,000 (NHP)
 \$175,240,000

P-5600A NCVA RR, Construction FY16 \$5,800,000 (DP)
 BERTIE Track improvements. FY16 \$2,800,000 (T)
 HERTFORD **To allow additional time** FY16 \$3,031,000 (O)
 NORTHAMPTON **to coordinate with Federal**
 \$11,631,000
Proj. Category **Rail Administration, delay**
 TRANSITION **Construction from FY 16 to**
FY 17.

DIVISION 2

B-4786 US 13, Replace Bridge Right-of-Way FY18 \$1,000,000 (NHPB)

PITT	730038 over Tar River.	Construction	FY19	\$2,667,000 (NHPB)
Proj. Category	<u>Accelerate Construction</u>		FY20	\$2,667,000 (NHPB)
REGIONAL	<u>from FY 20 to FY 19.</u>		FY21	<u>\$2,666,000 (NHPB)</u>
				\$9,000,000

R-5703	NC 148 (Harvey Parkway),	Right-of-Way	FY17	\$5,332,000 (T)
LENOIR	NC 58 to NC 11.	Utilities	FY17	\$2,900,000 (T)
Proj. Category	Construct multi-lane facility	Construction	FY18	\$28,833,000 (T)
REGIONAL	on new location.		FY19	\$28,833,000 (T)
	<u>To convert back to conventional</u>		FY20	<u>\$28,833,000 (T)</u>
	<u>contract, project will no longer be</u>			\$94,731,000
	<u>design build and Construction will</u>			
	<u>move from FY 17 to FY 18.</u>			

DIVISION 3

U-5790	US 421 (Carolina Beach Road),	Right-of-Way	FY20	\$4,525,000 (NHP)
NEW HANOVER	NC 132 (South College Road)	Utilities	FY20	\$183,000 (NHP)
Proj. Category	to Sanders Road in Wilmington.	Construction	FY20	<u>\$20,386,000 (NHP)</u>
DIVISION	Widen existing roadway and			\$25,094,000
	construct flyovers at US 421			
	and NC 132.			
	<u>To modify contract from</u>			
	<u>design build to conventional</u>			
	<u>design bid build, move</u>			
	<u>Construction from</u>			
	<u>FY 20 to FY 22.</u>			

DIVISION 4

B-4562	SR 2143 (Beulahtown Road),	Right-of-Way	FY17	\$125,000 (STPOFF)
JOHNSTON	Replace Bridge 500216 over	Construction	FY18	<u>\$1,250,000 (STPOFF)</u>
Proj. Category	Little Buffalo Creek.			\$1,375,000
DIVISION	<u>Accelerate Construction</u>			
	<u>from FY 18 to FY 17. Project</u>			
	<u>will now be design build contract.</u>			

B-5654	SR 1550 (Winston Road),	Right-of-Way	FY17	\$30,000 (STPOFF)
JOHNSTON	Replace Bridge 500141	Construction	FY18	<u>\$604,000 (STPOFF)</u>
Proj. Category	over White Oak Creek.			\$634,000
DIVISION	<u>Accelerate Construction</u>			
	<u>from FY 18 to FY 17. Project</u>			
	<u>will now be design build contract.</u>			

B-5656	SR 1127 (Herring Road),	Right-of-Way	FY17	\$21,000 (STPOFF)
WAYNE	Replace Bridge 950133	Construction	FY18	<u>\$415,000 (STPOFF)</u>
Proj. Category	over Yellow Swamp.			\$436,000
DIVISION	<u>Accelerate Construction</u>			
	<u>from FY 18 to FY 17. Project</u>			
	<u>will now be design build contract.</u>			

DIVISION 4

B-5659	SR 1738 (Eatmon Road),	Right-of-Way	FY17	\$16,000 (STPOFF)
JOHNSTON	Replace Bridge 500432 over	Construction	FY18	<u>\$310,000 (STPOFF)</u>
Proj. Category	Cattail Creek.			\$326,000
DIVISION	<u>Accelerate Construction</u>			

from FY 18 to FY 17. Project will now be design build contract.

C-5546 Rocky Mount, Benvenue Road Construction FY16 \$130,000 (CMAQ)
 NASH (NC 43/NC 48) at Jeffreys Road.
Proj. Category Intersection improvements.
 EXEMPT **To allow City of Rocky Mount additional time for Design delay, Construction from FY 16 to FY 17.**

U-3334B SR 1923 (Booker Dairy Road) Right-of-Way FY16 \$2,045,000 (T)
 JOHNSTON Extension, SR 1003 FY17 \$2,045,000 (T)
Proj. Category (Buffalo Road) to US 301 Construction FY18 \$6,350,000 (T)
 DIVISION (Brightleaf Boulevard). FY19 \$6,350,000 (T)
Cost increase exceeding \$2 million and 25% thresholds. \$16,790,000

U-5935 US 301, Black Creek Road to Construction FY17 \$10,000,000 (DP)
 WILSON SR 1515 (Lipscomb Road). FY17 \$6,500,000 (T)
Proj. Category Upgrade roadway including FY17 \$2,000,000 (L)
 REGIONAL bicycle and pedestrian accomodations. \$18,500,000
Add additional regional STIP funding to partner with TIGER grant. Limits of project have been extended.

W-5500 SR 1556 (Wayne Memorial Drive), SR 1622 (Woodside Drive) to SR 1752 Right-of-Way FY16 \$1,428,000 (HSIP)
 WAYNE Construction FY17 \$1,505,000 (HSIP)
Proj. Category Drive) to SR 1752 \$2,933,000
 TRANSITION (Saulston Patetown Road).
 Safety improvements including widening, shoulders, superelevation revisions, overlaying pavement markings and signing.
To allow additional time for Utility coordination delay Construction, from FY 16 to FY 17.

DIVISION 5

B-5140 SR 1001 (Pearces Road), Right-of-Way FY18 \$70,000 (HFB)
 WAKE Replace Bridge 910195 over Utilities FY18 \$89,000 (HFB)
Proj. Category Mocassin Creek. Construction FY19 \$850,000 (HFB)
 HWY FUNDS **To allow additional time to select the design alternative, delay right-of- way from FY 17 to FY 18 and Construction from FY 18 to FY 19.** \$1,009,000

C-5567 East Lyon Station Greenway, Right-of-Way FY17 \$28,000 (CMAQ)
 GRANVILLE Town of Butner Greenway FY17 \$7,000 (L)
Proj. Category Extension. Construction FY17 \$144,000 (CMAQ)
 EXEMPT Construct multi-use path. FY17 \$36,000 (L)
To allow additional time to complete the design phase, delay Right-of-Way from FY 16 to FY 17 and Construction \$215,000

from FY 16 to FY 17.

EB-4707B	SR 2220, SR 1113 (Pope Road) Construction	FY17	\$4,067,000 (STBGDA)
DURHAM	to SR 1116 (Garrett Road)	FY17	\$250,000 (O)
Proj. Category	<u>At request of Division Office,</u>	FY17	<u>\$767,000 (L)</u>
TRANSITION	<u>delay Construction from</u>		\$5,084,000
	<u>FY 16 to FY 17.</u>		

U-5537	SR 1521 (Lake Pine Drive),	Right-of-Way	FY17	\$56,000 (STBGDA)
WAKE	Widen to 3 lanes, north of		FY17	\$24,000 (L)
Proj. Category	Macgregor Pines Road to	Construction	FY17	\$668,000 (STBGDA)
DIVISION	north of Versailles Drive.		FY17	<u>\$167,000 (L)</u>
	Including 10 ft multiuse path			\$915,000
	east side; 5 ft sidewalk west side.			
	<u>To allow time for the town to</u>			
	<u>complete the r/w plans, delay</u>			
	<u>Right-of-Way FY 16 to from FY 17.</u>			

U-5745	NC 751 (Hope Valley Road),	Right-of-Way	FY18	\$150,000 (T)
DURHAM	SR 1183 (University Drive)	Construction	FY19	<u>\$1,300,000 (T)</u>
Proj. Category	intersection in Durham			\$1,450,000
REGIONAL	Construct roundabout.			
	<u>To allow additional time to complete</u>			
	<u>the design phase, delay Right-of-Way</u>			
	<u>from FY 17 to FY 18 and Construction</u>			
	<u>from FY 18 to FY 19.</u>			

DIVISION 6

B-5339	SR 1544 (Guy Road),	Right-of-Way	FY23	\$80,000 (STPOFF)
HARNETT	Replace Bridge 420233	Construction	FY24	<u>\$770,000 (STPOFF)</u>
Proj. Category	over Black River tributary.			\$850,000
DIVISION	<u>Project funding being switched</u>			
	<u>back to STIP funding, delay</u>			
	<u>Right-of- Way from FY 16 to</u>			
	<u>FY 23 and Construction</u>			
	<u>from FY 16 to FY 24.</u>			

B-5414	SR 1234 (Leaflet Church Road),	Right-of-Way	FY23	\$50,000 (STPOFF)
HARNETT	Replace bridge 420195 over	Construction	FY24	\$525,000 (STPOFF)
Proj. Category	branch of Upper Little River.		FY24	\$575,000
DIVISION	<u>Project funding being switched</u>			
	<u>back to STIP funding, delay</u>			
	<u>Right-of- Way from FY 16</u>			
	<u>to FY 23 and Construction</u>			
	<u>from FY 16 to FY 24.</u>			

DIVISION 7

B-5352	US 220 (Northbound), Replace	Right-of-Way	FY17	\$240,000 (NHPB)
ROCKINGHAM	Bridge 780131 over Norfolk	Construction	FY19	\$975,000 (NHPB)
Proj. Category	southern railroad.		FY20	<u>\$975,000 (NHPB)</u>
STATEWIDE	<u>To allow additional time to</u>			\$2,190,000
	<u>coordinate project design with</u>			
	<u>Norfolk-Southern Railroad, delay</u>			

**Right-of-Way from FY 16 to FY 17
and Construction from FY 18 to FY 19.**

R-4707 GUILFORD Proj. Category REGIONAL	US 29; SR 4771 (Reedy Fork Parkway), SR 2641 (Bryan Park Road) to US 29/ SR 4771 (Reedy Fork Parkway) Interchange in Greensboro. Improve roadway, modify interchange and Replace Bridge 400360.	Right-of-Way FY19 Utilities FY19	\$3,220,000 (T) <u>\$982,000 (T)</u> \$4,202,000
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To allow additional time to prepare the environmental document and select an alternative, delay Right-of-Way FY 17 to FY 19

R-4707A GUILFORD Proj. Category DIVISION	SR 4771 (Reedy Fork Parkway), Construction FY20 Replace Bridge 400360 over US 29 and construct tie-ins.	Construction FY20	\$8,821,000 (T)
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At request of Project Development, delay Construction from FY 18 to FY 20.

U-5306B GUILFORD Proj. Category REGIONAL	US 220 (Battleground Avenue), Construction FY17 Intersection with Westridge Road and approaches	Construction FY17	\$3,100,000 (NHP)
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To allow additional time for the City to complete Right-of-Way acquisition and relocate Utilities, delay Construction from FY 16 to FY 17.

DIVISION 7

U-5538C ALAMANCE Proj. Category DIVISION	NC 119, SR 1981 (Trollingwood-Hawfields Road) in Mebane. Add turn lanes.	Right-of-Way FY17 Construction FY17 FY17	\$150,000 (L) \$250,000 (HSIP) <u>\$450,000 (T)</u> \$850,000
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To allow additional time to address community historical impacts and complete project design, delay Right-of-Way from FY 16 to FY 17 and Construction from FY 16 to FY 17.

W-5143 ORANGE Proj. Category TRANSITION	SR 1004 (Efland- Cedar Grove Road), North of intersection with SR 1332 (Highland Farm Road). Improve horizontal alignment of curve to provide a minimum of 60 mph design speed.	Construction FY17	\$325,000 (HSIP)
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To allow additional time to complete the Right-of-Way phase, delay Construction from FY 16 to FY 17.

DIVISION 8

B-5739 RANDOLPH	SR 2621 (Foushee Road), Replace Bridge 750170 over	Right-of-Way FY16 Construction FY17	\$37,000 (STPOFF) <u>\$747,000 (STPOFF)</u>
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Proj. Category	Reed Creek.	FY17	\$784,000	
DIVISION	<u>Accelerate Right-of-Way from FY 17 to FY 16 at request of Division Office.</u>			
B-5763	SR 2407 (Starmount Road),	Right-of-Way FY16	\$21,000 (STPOFF)	
RANDOLPH	Replace Bridge 750129 over	Construction FY17	<u>\$427,000 (STPOFF)</u>	
Proj. Category	Branch of Sandy Creek.	FY17	\$448,000	
DIVISION	<u>Accelerate Right-of-Way from FY 17 to FY 16 at request of Division Office.</u>			
U-3628	NC 24 / NC 27, Courthouse	Right-of-Way FY21	\$2,031,000 (T)	
MOORE	west of NC 22 (McNeill Street)	Utilities FY21	\$244,000 (T)	
Proj. Category	to US 15 / US 501 in Carthage.	Construction FY23	<u>\$3,400,000 (T)</u>	
REGIONAL	Widen to three lanes with curb and gutter and bicycle / pedestrian accommodations.		\$5,675,000	
	<u>To reflect change from federal to state funding, delay Right-of-Way FY 20 to from FY 21 and Construction from FY 22 to FY 23.</u>			
DIVISION 9				
EB-4020C	Brushy Fork Greenway,	Right-of-Way FY17	\$20,000 (STBGDA)	
FORSYTH	Lowery Street to Reynolds Park	FY17	\$5,000 (L)	
Proj. Category	Road	Construction FY17	\$700,000 (STBGDA)	
TRANSITION	<u>To allow additional time for the City to complete the Design phase, delay Right-of-Way FY 16 to FY 17.</u>	FY17	\$300,000 (STPEB)	
		FY17	<u>\$175,000 (L)</u>	
			\$1,200,000	
DIVISION 10				
B-2506	SR 1627 (Pinkston River),	Construction FY17	\$1,100,000 (STPOFF)	
ANSON	Replace Bridge 030008 over			
Proj. Category	Brown Creek.			
DIVISION	<u>To resolve right of way issues delay Construction from FY 16 to FY 17 to allow additional time</u>			
B-5378	Michael Baker Road, Replace	Construction FY17	\$1,360,000 (STPOFF)	
MECKLENBURG	Bridge 590210 over Briar			FY17 <u>\$340,000</u>
	(L)			
Proj. Category	Creek in Charlotte.		\$1,700,000	
DIVISION	<u>To allow additional time to resolve Right of Way issues delay Construction from FY 16 to FY 17</u>			
C-5540	Charlotte, Navin Road,	Construction FY17	\$564,000 (CMAQ)	
MECKLENBURG	Alpine Drive to Gibbon Road.			FY17 <u>\$188,000</u>
	(L)			
Proj. Category	Construct sidewalk on north side.		\$752,000	

EXEMPT Gibbon Road, Nevin Road to Sugar Creek Road.
Construct sidewalk on south side. West Sugar Road, Bisaner Street and Mallard Creek Road.
Fill gaps in sidewalk network on east side.
To allow additional time for Utility Relocations delay Construction from FY 16 to FY 17.

U-3467 NC 84, NC 16 to SR 1008 Right-of-Way FY18 \$15,250,000 (STBG)
UNION (Waxhaw-Indian Trail Road) Utilities FY18 \$800,000 (STBG)
Proj. Category in Wesley Chapel. Construction FY19 \$32,500,000 (STBG)
REGIONAL Construct four lane roadway, part on new location. \$48,550,000
To allow additional time for planning Delay Right-of-Way from FY 17 to FY 18.

DIVISION 10

U-5114 Huntersville, Intersection of Right-of-Way FY17 \$3,350,000 (BA)
MECKLENBURG US 21 and Gilead Road in UtilitiesFY17 \$800,000
(BA)
Proj. Category Huntersville. Construct Construction FY18 \$3,850,000 (BA)
TRANSITION intersection improvements, including bicycle and FY18 \$2,400,000 (T)
pedestrian accommodations. \$10,400,000
Replace STP-DA and associated matching funds with bonus allocation funds. Add trust funds to complete work proposed under U-5771.

DIVISION 13

I-5809 I-40, Milemarker 86.4 to Construction FY17 \$2,250,000 (NHPIM)
McDOWELL milemarker 92.8. FY18 \$2,250,000 (NHPIM)
Proj. Category Pavement rehabilitation. \$4,500,000
STATEWIDE **To allow additional time for Design delay Construction from FY 16 to FY 17.**

I-5833 I-40, Buncombe County Line Construction FY17 \$3,000,000 (NHPIM)
McDOWELL to SR 1103 (South Catawba Avenue / Bat Cave Road). FY18 \$3,000,000 (NHPIM)
Proj. Category Pavement rehabilitation. \$6,000,000
STATEWIDE **To allow additional time for Design delay Construction from FY 16 to FY 17.**

I-5892 Future I-26, Milemarker 18 to Construction FY17 \$6,000,000 (NHPIM)
BUNCOMBE milemarker 12.5.
Proj. Category Pavement rehabilitation.

STATEWIDE **To allow additional time for Design delay Construction from FY 16 to FY 17.**

R-5528A New route, Construct access Construction FY17 \$170,000 (APD)
 MITCHELL road off SR 1129 (Henredon
Proj. Category Road) from the end of Phase I
 EXEMPT project.

To allow additional time for Design delay Construction from FY 16 to FY 17.

DIVISION 14

B-5550 Brevard, Replace Bridge Right-of-Way FY17 \$120,000 (STPON)
 TRANSYLVANIA870102 on Railroad Avenue FY17 \$30,000 (L)
Proj. Category over Kings Creek. . Construction FY17 \$520,000 (STPON)
 DIVISION **To allow additional time for Planning and Design delay Right-of-Way FY 16 to from FY 17.** FY17 \$130,000 (L)
 \$800,000

DIVISION 14

U-5105 Hendersonville, NC 225/ Right-of-Way FY17 \$200,000 (STBG)
 HENDERSON SR 1164 (Erkwood Drive)/ Construction FY18 \$2,150,000 (STBG)
Proj. Category SR 1779 (Shepherd Street) \$2,350,000
 TRANSITION in Hendersonville.
 Improve intersection.

To allow additional time for Planning delay Right-of-Way from FY 16 to FY 17.

U-5872 US 25 (Hendersonville Road), Engineering FY16 \$154,000 (STBGDA)
 HENDERSON SR 1545 (Cane Creek Road) to FY16 \$39,000 (L)
Proj. Category SR 1006 (Howard Gap Road). Right-of-Way FY17 \$20,000 (STBGDA)
 EXEMPT Construct roadway FY17 \$5,000 (L)
 improvements. Construction FY17 \$1,555,000 (STBGDA)
To allow additional time for Design Delay Right-of-Way FY 16 to from FY 17. FY17 \$389,000 (L)
 \$2,162,000

STIP DELETIONS

DIVISION 3

EB-5799 SR 1167 (Persimmon Road), Construction FY21 \$146,000 (STBG)
 BRUNSWICK Bay Trail Drive to NC 179 FY21 \$37,000 (L)
Proj. Category (Beach Drive). . \$183,000
 DIVISION Construct sidewalk.

Delete at the request of Town of Calabash.

ITEM N SUMMARY

ADDITIONS	9 PROJECTS	\$14,931,000
MODIFICATIONS	42 PROJECTS	
DELETIONS	1 PROJECTS	\$183,000

Approval – Municipal and Special Agreements

A motion was made by Board Member McQueary, seconded by Board Member Brown, to approve the following:

Board Member Curran noted a conflict of interest on project W-5601K in Mecklenburg County and Board Member Brown noted a conflict of interest on project EB-5774 in Buncombe County.

SUMMARY: There are a total of 28 Agreements for approval by the Board of Transportation.

Statewide

United States Army Corps of Engineers (USACE) This is a Special Reimbursement Agreement for expenditure of funds contributed by the NCDOT to expedite review of NCDOT permits under the jurisdiction of the Department of the Army. The NCDOT and the USACE agree to maintain up to two (2) positions in the Wilmington District, USACE Office. Reimbursement shall be made in five (5) annual installments and shall provide total funding in the amount not to exceed \$1,800,000 over the next five year period beginning October 1, 2016.

North Carolina Railroad Company (NCR) On September 21, 2012, the Department, NCR, and NS entered into a Rail Master Project Construction and Maintenance Agreement (MPCMA) detailing the terms for construction of all Piedmont Improvement Program (PIP) projects. This amendment to the MPCMA provides for an amended date for: (1) completion of all project work, (2) submission of all Post Construction Drawings, (3) submission of final itemized invoices for all project work, (4) final payments after completion of all projects and/or components, and (5) reconciliation at final invoice and program close out. There will be no additional project cost to the Department and all project work will be completed for reimbursement by FRA to NCDOT by September 30, 2017. All other provisions of the MPCMA executed on September 21, 2012 shall remain the same.

Division 4

Town of Nashville Nash County 80015 75011 This Project consists of the installation of sidewalk on the south side of Eastern Avenue (US 64 Business) from Lowes Foods to east of SR 1003. This Supplemental Agreement is to amend the Project scope to include installation of curb and gutter, sidewalk, paving, etc., and removal of existing elements; and to increase funding. The Department's original participation was \$175,000. The Department will reimburse the Municipality an additional amount not to exceed \$106,100 for a total amount of \$281,100. This agenda item supersedes the item that was approved by the BOT on May 5, 2016.

Division 5

City of Durham Durham County EB-5703 51049.1.F1 51049.3.F1 This Project consists of sidewalk and pedestrian improvements on both sides of LaSalle Street from Kangaroo Drive to US 70 Business and on one-side of LaSalle Street from Hillsborough Road to Sprunt Avenue. The Municipality is responsible for all phases of the Project. The Department shall reimburse 80% (\$489,000) of approved eligible costs from the STP-

TAP funds allocation. The Municipality will be responsible for providing the 20% (\$122,000) non-federal match for the funds authorized and all costs that exceed the total estimated cost.

City of Raleigh
Wake County
W-5601G
50138.3.9

This Project consists of roadway improvements to SR 1007 (Poole Road) at SR 2967 (New Hope Road) in Raleigh. At the request of the Municipality, the Department shall include provisions in the construction contract for the contractor to adjust and/or relocate municipally-owned water and sewer lines. The Municipality shall reimburse the Department the entire cost of said utility work. The estimated reimbursement from the Municipality is \$230,000.

City of Durham
Durham County
EB-5704
51050.1.F1.1
51050.3.1

This Project consists of sidewalk and pedestrian improvements on one side of Raynor Street from North Miami Boulevard to North Hardee Street. The Municipality is responsible for all phases of the Project. The Department shall reimburse 80% (\$240,000) of approved eligible costs from the STP-TAP funds allocation. The Municipality will be responsible for providing the 20% (\$60,000) non-federal match for the funds authorized and all costs that exceed the total estimated cost.

North Carolina State
University, Clean Energy
Technology Center
(CETC)
Wake County
C-5702A, B & C
44907.1.1
44907.1.2
44907.1.3

This Project consists of the development and operation of a clean fuel advanced technology outreach and awareness program, including sub-awards for projects in eligible counties in North Carolina. The Project will be administered by the Clean Energy Technology Center (CETC) at NC State University. The Department shall reimburse 80% of approved eligible costs from CMAQ funds, not to exceed \$4,494,500. The CETC will be responsible for the 20% (\$1,123,624) nonfederal match for the CMAQ funds authorized and all costs that exceed the total estimated cost of \$5,618,124.

City of Durham
Durham County
EB-5715
50411.1.1
50411.3.1

This Project consists of sidewalk and pedestrian improvements on east side of North Duke Street from Murray Avenue to US 501 Business to fill in existing gaps. The Municipality is responsible for all phases of the Project. The Department shall reimburse 80% (\$1,059,200) of approved eligible costs from the STP-TAP funds allocation. The Municipality will be responsible for providing the 20% (\$264,000) non-federal match for the funds authorized and all costs that exceed the total estimated cost.

City of Durham
Durham County
EB-5708
50404.1.1
50404.3.F1

This Project consists of sidewalk and pedestrian improvements on the south side of NC 54 from NC 55 to Research Triangle Park's western limit. The Municipality is responsible for all phases of the Project. The Department shall reimburse 100% (\$300,000) of approved eligible costs from the Safe Routes to School (SRTS) funds allocation. The Municipality will be responsible for all costs that exceed the total estimated cost.

City of Raleigh
Wake County
C-5604 OB
43714.1.2
43714.3.4

This Project consists of the implementation of the Bike Share System to include the design, procurement and installation of approximately 30 stations and +/- 300 bicycles near Downtown Raleigh. The Municipality is responsible for all phases of the Project. The Department shall reimburse 80% of approved eligible costs from CMAQ funds, not to exceed \$1,548,800 and 80% of approved eligible costs from TAP funds, not to exceed \$100,000. The Department shall provide the 20% (\$25,000) state match for the TAP funds. The Municipality will be responsible for providing the 20% (\$387,200) non-federal match for the CMAQ funds authorized and

all costs that exceed the total estimated cost of \$2,061,000.

Division 7

City of Greensboro
Guilford County
U-5532B
46297.2.F3
46297.3.F3

This Project consists of the construction of sidewalk and wheelchair ramps where none exists on both sides of Phillips Avenue and the marking and signage of crosswalks in Greensboro. This Supplemental Agreement is to increase funding for the Project. The Department's original participation was \$280,000. The Department agrees to reimburse the Municipality an additional \$80,463 (80%) for a total of \$360,463 in Transportation Alternatives Program (TAP) funds. The Municipality's original participation was \$70,000. The Municipality will provide an additional \$20,116 (20%) for a total of \$90,116 as their local match and all costs that exceed the total estimated costs.

Town of Hillsborough
Orange County
W-5143
45267.3.FD1

This Project consists of improving the horizontal alignment of a curve on SR 1004 (Efland Cedar Grove Road) north of the intersection with SR 1332 (Highland Farm Road). At the request of the Municipality, the Department will include reservoir road improvements along the same section as part of the work. The estimated cost of the reservoir project is \$1,040,544. The Department will participate in the amount of \$467,000 toward the Reservoir Road project. The Municipality is responsible for \$573,544 and any cost exceeding the estimated amount of \$1,040,544.

City of Greensboro
Guilford County
C-5555 E
45540.1.6
45540.2.6
45540.3.6

This Project consists of the construction of sidewalk along College Road on the east side from Guida Drive to Friendly Avenue and along New Garden Road on the west side from Friendly Avenue to Ballinger Road in Greensboro. The Municipality is responsible for all phases of the Project. This Supplemental Agreement is to increase funding. The Department shall participate in an additional amount not to exceed \$37,293 (80%) in CMAQ funds. The Municipality will be responsible for providing \$9,301 (20%) as their local match.

Division 9

Town of Rural Hall
Forsyth County
R-2247EC
34409.3.23

This Project consists of reconstruction of the interchange at US 52 with NC 65 on the Winston-Salem Northern Beltway, including sidewalks on both sides of HWY 65 in Rural Hall. This Supplemental Agreement is to add new betterments and costs to the Project. The Municipality has requested that Anodized Rail, Bridge Façade, and Exterior Stained Girders decorative improvements be added. The Municipality shall reimburse the Department 100% of these additional cost estimated at \$59,142.

City of Winston-Salem
Forsyth County
R-2247CD
34409.3.23

This Design-Build Project consists of reconstruction of the US 421/SR 1891 (Peace Haven Road) Interchange on the Winston-Salem Northern Beltway. At the request of the Municipality, the Department shall include construction of pedestrian facilities on the west side of SR 1891 (Peace Haven Road) from Regents Village Drive to Ivystone Lane, and on the east side of SR 1891 (Peace Haven Road) from Villas Drive to the End of Construction limits just north of Ivystone Lane. The Municipality will pay a lump sum amount for construction of the sidewalk. The lump sum cost to the Municipality is \$23,872.

City of Winston-Salem
Forsyth County
R-2247EC

This Design-Build Project consists of construction of the US 52 (Future I-74)/NC 65 (Bethania – Rural Hall Road) Interchange on the Winston-Salem Northern Beltway. At the request of the Municipality, the Department shall

34409.3.23 include construction of pedestrian facilities along both sides of NC 65 (Bethania-Rural Hall Road) from the relocated Montroyal Road/DW1 intersection to a point just south of proposed Ramp B/Loop B; and Anodized Rail, Bridge Façades, and Exterior Stained Girders aesthetic betterments. The Municipality will pay a lump sum amount of \$13,041 for construction of the sidewalk; and a lump sum amount of \$80,493 for the Anodized Rail, Bridge Façade, and Exterior Stained Girders aesthetic betterments.

Division 10

Zoladz Construction Company Co. Inc. ("Zoladz")
Mecklenburg County

This Rail Lease Agreement is for the purpose of leasing property owned by the Department located at 520 Summit Avenue, Charlotte, NC to Zoladz for a term of ten (10) months for a total rental amount of eighteen thousand dollars (\$18,000.00). The property will be rented in an "as is" condition subject to the usual terms and conditions for the demise of state property under state law and be used during construction of the Charlotte Locomotive and Railcar Maintenance Facility. There will be no additional project cost to the Department.

City of Charlotte
Mecklenburg County
W-5601IK
50138.3.246

This Project consists of the widening of the I-485 Outer Loop ramp to NC 16 and for signal modifications. The Municipality shall design and modify the existing signal system between the I-485 Outer Loop ramp and NC 16. The Department shall reimburse the Municipality up to \$6,000 for the design and construction of the signal modification.

City of Mount Holly
Gaston County
U-3633
37649.3.FR1

This Project consists of NC 273 (South Main Street) from Tuckaseegee Road at Beatty Drive to Highland Street at A & E Drive in Mount Holly. At the request of the Municipality, the Department shall include provisions in the construction contract for the contractor to adjust and/or relocate municipally-owned water and sewer lines. The Municipality shall reimburse the Department the entire cost of said utility work. The estimated reimbursement from the Municipality is \$156,398.00.

City of Charlotte
Mecklenburg County
EB-5820
44840.1.1
44840.3.1

This Project consists of the installation of 20-24 B-cycle bike share stations in and around City Center. The Municipality will be responsible for all phases of the project. The Department will reimburse 80% of eligible costs from TAP funds not to exceed \$675,000. The Municipality shall be responsible for providing the 20% (\$168,750) non-federal match and all costs that exceed the total estimated cost of \$843,750.

City of Charlotte
Mecklenburg County
W-5601FL
50138.1.169

This Project consists of safety improvements to include the installation of traffic signals at the following locations: I-77 Southbound Ramp and Trade Street (SR 2407); I-77 Northbound Ramp and Westinghouse Boulevard (SR 1128); US 21 and Lakeview Road (SR 1212) and NC 24 and Old Concord Road (SR 2939). The Municipality shall participate in the design work of the Project. The Department agrees to reimburse the Municipality up to \$11,500 for their participation in the design work.

Division 11

Town of West Jefferson
Ashe County
EB-3314G
33935.2.7

This Project consists of pedestrian improvements at the intersection of North Jefferson Avenue and East Second Street ending at the intersection of East Second Avenue and Fifth Avenue. This Supplemental Agreement is to provide additional funding in the amount of \$130,000 in State Contingency Funds.

City of Lenoir
Caldwell County
EB-5806
46457.1.1
46457.2.1
46457.3.1

This Project consists of construction of sidewalk on Hospital Avenue between Harper Avenue and US 321. The Municipality shall be responsible for all phases of the Project. The Department will reimburse 80% of eligible expenses from TAP funds not to exceed \$800,000. The Municipality shall be responsible for providing the 20% (\$200,000) non-federal match and all costs that exceed the total estimated cost of \$1,000,000.

Piedmont & Atlantic
Railroad, dba Yadkin
Valley Railroad
(YVRR)
Norfolk Southern Railway
Company, Inc. (NS)
Wilkes County
80000.1.4.30

This agenda item supersedes the YVRR Rail Freight Assistance Agreement agenda item that was approved at the June 2, 2016 Board of Transportation meeting. The original scope of work included rail replacement at 3 curves and a bridge rehabilitation at milepost K 87.9, for a total project cost of \$429,545, including \$107,386.26 for bridge rehabilitation. After further site review it was mutually determined between YVRR and the Department to rescope the project. The Agreement has been modified to remove the rail replacement and to increase the scope of work for the bridge rehabilitation. The total project cost for the bridge rehabilitation is now \$149,070. This increases the Department's participation from 12.5% or up to \$53,593, to 50% or up to \$74,535. All other provisions of the agreement approved at the June 2, 2016 Board of Transportation meeting shall remain the same.

Division 12

Catawba County
R-3100A
34522.3.FR3

This Project consists of improvements on NC 16 from north of SR 1814 (Caldwell Road) to SR 1895 (Tower Road). At the request of the County, the Department shall include provisions in the construction contract for the contractor to adjust and/or relocate county-owned water and sewer lines. The County shall reimburse the Department the entire cost of said utility work. The estimated reimbursement from the County is \$2,862,255.00.

Catawba County
R-3100B
34522.3.FR3

This Project consists of NC 16 from north of SR 1801 (Claremont Road) to north of SR 1814 (Caldwell Road). At the request of the County, the Department shall include provisions in the construction contract for the contractor to adjust and/or relocate county-owned water and sewer lines. The County shall reimburse the Department the entire cost of said utility work. The estimated reimbursement from the County is \$5,250,073.

Division 13

Buncombe County
EB-5774
46407.1.1
46407.2.1

This Project consists of a multi-use path along NC 251 (Riverside Drive) from SR 1684 (Elk Mountain Road) to Exit 25 on US 19/23/70. This Supplemental Agreement is to modify the funding source from STP-DA to TAP funds. The amount to be reimbursed, \$528,000 will not change. The County shall provide a 20% match and all costs that exceed the total available funding.

Division 14

Eastern Federal Lands
Highway Division
Henderson County
R-5780
44909.1.1
44909.3.1

This Project consists of resurfacing North Mills River Road (SR 1345) in Henderson County, which is funded by Federal Lands Access Program (FLAP) funds. The Department is responsible for all phases of the work. The Department shall participate in a tapered match of 19.02%, or \$116,778.60. The total estimated project cost is \$593,893.

SUMMARY: There are a total of 18 agreements for informational purposes only.

Division 3

Town of Holden Beach
Brunswick County

This Agreement is to allow Disaster Related Debris Removal by the Municipality during a State of Disaster or Imminent Threat of Disaster and/or a State of Emergency. The Municipality shall remove and dispose of disaster related debris on all released State Routes. The Municipality shall apply directly to FEMA for reimbursement of eligible debris removal costs.

Town of Leland
Brunswick County
U-5534 K
44096.1.F12
44096.2.F12
44096.3.F12

This Project consists of the construction of 5-foot wide concrete sidewalk adjacent to Old Fayetteville Road from Ricefield Branch Road to the Hwy 74/76 overpass after Glendale Drive with connections to Leland Middle School and the surrounding neighborhoods. This Supplemental Agreement extends the completion date for the Project to March 31, 2018, in lieu of March 31, 2016.

Town of St. James
Brunswick County

This Agreement is to allow Disaster Related Debris Removal by the Municipality during a State of Disaster or Imminent Threat of Disaster and/or a State of Emergency. The Municipality shall remove and dispose of disaster related debris on all released State Routes. The Municipality shall apply directly to FEMA for reimbursement of eligible debris removal costs.

Division 4

The Shoppes at Glen
Laurel, LLC
Johnston County
36249.3683

This Project consists of installation and modification of a traffic signal at the NC 42/Glen Laurel Road intersection [04-1083], including wireless connectivity. The Developer shall reimburse the Department 100% of the cost of the Department's review and inspection of the signal. The estimated reimbursement is \$7,000.

Town of Faison
Duplin County
46305.1.18

This Project consists of plantings along US 117 (Center Street) from Soloman Street to College Street. The Department shall develop the landscape design, prepare plans and site and install the plantings. The Municipality shall assume maintenance of the plantings after one year.

Division 5

Raleigh Durham Airport
Authority
Wake County
36249.3685

This Project consists of the fabrication and installation of three overhead signs, two located on Aviation Parkway and one on Airport Boulevard. The Department will perform the work. The Airport Authority shall reimburse the Department 100% of the actual cost of the work. The estimated reimbursement is \$21,500.

Durham Public Schools
Durham County
36249.3686

This Project consists of safety improvements at Jordan High School Crossing, including fence, school flashers and a concrete island. The Department shall be responsible for all phases of the work. Durham Public Schools shall reimburse the Department 100% of the actual cost of the work. The estimated reimbursement is \$35,000.

Division 6

Capital Area Metropolitan
Planning Organization
(CAMPO)

This Memorandum of Agreement (MOA) establishes the terms and conditions for installation, data access, ownership and maintenance of Department specialized pedestrian and cyclists counting equipment,

Wake County	related to the “North Carolina’s Non-Motorized Volume Data Program” research project in Apex, Cary, Raleigh and Wake Forest. CAMPO will be responsible for equipment installation and routine maintenance costs through the useful life of the equipment as defined in the agreement.
City of Whiteville Columbus County 2300003140	The Project consists of the construction of a sewer system on SR 1170 (Prison Camp Road) to connect the NCDOT’s County Maintenance Facility to the City of Whiteville sewer system, betterments including lift stations pumps and a pressure force main. The Department shall be responsible for all phases of the work. Upon completion of the Project the Municipality shall reimburse the Department a lump sum amount of \$95,000 for betterments. Upon completion of the Project the Municipality shall assume all maintenance and cost of the sewer system, not on Department property.
NC Piedmont Natural Gas Cumberland County 50079.3.FD1	The Project consists of a right turn lane on SR 2220 (Tom Starling Road) at SR 2333 (Corporation Drive) in conjunction with the Project to realigning two curves along SR 2220 between US 301 and NC 87, including widening, resurfacing and a left turn lane at SR 2333. The Department shall be responsible for all phases of the Project. The Developer shall reimburse the Department \$87,500 for work performed by the Department. The estimated total cost of Project is \$87,500. This Agreement supersedes the prior board approval on August 4, 2016.
Division 9	
Town of Spencer Rowan County 44793	This Project consists of drainage improvements on Fourth Street between US 29 (Salisbury Avenue) and Iredell Avenue in the Town of Spencer. The Municipality is responsible for all phases of the work. The Department shall participate in the actual costs up to a maximum amount of \$390,000. Costs which exceed this amount shall be borne by the Municipality. Estimated costs are \$434,647.
Division 10	
Intertape Polymer Group Cabarrus County R-5778 44799.3.1	This Project consists of the widening and strengthening of Bill McGee Road (SR 3049) for 2,000 feet and the extension of Bill McGee Road across the railroad at an approved crossing to the location of the new industrial site. The Developer will be responsible for planning and design, and right of way acquisition. The Department shall be responsible for utility relocations and construct the Project. The Department shall participate in the actual construction costs of the Project in an amount not to exceed \$800,000. Costs which exceed this amount shall be borne by the Developer.
Cabarrus County 44831	This Project consists of improvements on International Drive (SR 1429) at the intersections with Poplar Tent Road (SR 1394), Fortune Drive, and Davidson Highway (NC 73) related to a proposed new logistics facility on Fortune Drive in the International Business Park. The improvements will consist of widening for a lane extension, construction of a right turn lane and a receiving lane, and intersection modifications to allow for future dual left turn lanes on Davidson Highway (NC 73) to International Drive (SR 1429). The County shall be responsible for all phases of the Project. The Department shall participate in the actual construction costs in an amount not to exceed \$192,500. Costs which exceed this amount shall be borne by the County.
Harris Square, LLC	This Project consists of the modification of the existing signal at the

Mecklenburg County
36249.3691

intersection of NC 49 and Roberta Road (SR 1304) and the installation of a new signal at the intersection of Roberta Road (SR 1304) and New Access Drive in Harrisburg. The Developer shall reimburse the Department 100% of the cost of the Department's review and inspection of the signal. The estimated reimbursement is \$10,000.

Forestar Group Inc.
Mecklenburg County
36249.3692

This Project consists of the modification to an existing signal at the intersection of North Old Statesville Road (NC 115) and Ramah Church Road (SR 2439) in conjunction with roadway improvements to facilitate traffic flow into Walden Subdivision in Huntersville. The Department will review the traffic signal plans and inspect the traffic signal installation. The Developer shall reimburse the Department 100% of the Department's work. The estimated reimbursement is \$5,000.

Division 13

Ingles Markets, Inc.
Buncombe County
36249.3690

This Project consists of the review and inspection of a new traffic signal at the main entrance to Ingles Markets located on US 70 in Swannanoa. The Department will review the traffic signal plans and inspect the traffic signal installation. The Developer shall reimburse the Department 100% of the Department's work. The estimated reimbursement is \$7,500.

FHWA – Eastern Federal
Lands
Highway Division (EFL)
U.S. Department of the
Interior -
National Parks Service
(NPS)
FHWA – NC Division
Office (FHWA)
Buncombe County
I-4700B
36030.1.FS3

This Project consists of the widening of I-26 from NC 146, Long Shoals Road (Exit 37) to I-40 in Buncombe County. This Supplemental Agreement is to extend the period of performance to September 30, 2017. This agreement provides for the preliminary design and environmental documentation to be performed by the EFL and the NPS in coordination with FHWA and the Department to obtain the NPS Design Advisory Board approval and to meet NEPA and NPS compliance for the Blue Ridge Parkway bridge replacement over I-26, near Milepost 36, in Buncombe County. The estimated cost of the preliminary design and environmental services is \$400,000. The Department shall provide 80% of the costs in Federal National Highway Performance Program (NHPP) Funds with 20% in State Matching Funds.

Division 14

Tryon International
Equestrian Center
Polk County
R-5756
46441.3.1

This Project consists of revising an original approved design of the project and constructing the new design with cost participation. The Center shall be responsible for the revised design. The Department shall participate in the Project up to a maximum amount of \$1,831,299.20. The Center shall reimburse the Department for the estimated cost of construction for the revised design. The estimated reimbursement from the Center is \$320,000.

Preliminary Right of Way Plans

A motion was made by Board Member McQueary seconded by Board Member Brown, to approve the following:

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 2)

Lenoir County; I.D. No. R-5703; Project No. 46375.2.1:
NC 148 (Harvey Parkway) from NC 58 to NC 11

Greene County; I.D. No. W-5601FR; Project No. 50138.2.175:
NC 123 at SR 1400 (Fourway Road / Ormondsville Road) safety improvements

(Division 3)

New Hanover County; I.D. No. B-5236; Project No. 42840.2.1:
Bridge No. 19 over Lords Creek on SR 1100

(Division 4)

Johnston County; I.D. No. R-5769; Project No. 46448.2.1:
SR 1913 (Gordon Road) from US 70 Business to proposed Noco Nordisk Facility

Edgecombe County; I.D. No. U-4762; Project No. 39930.2.2:
SR 1250 (Springfield Road) from US 64 Alternate to SR 1243 (Leggett Road)

Wayne County; I.D. No. R-5719; Project No. 50473.2.1:
US 117 at SR 1135 (Country Club Road)

Johnston County; I.D. No. R-3825B; Project No. 34552.2.4:
NC 42 from East of SR 1902 (Glen Laurel Road) to SR 1003 (Buffalo Road)

Johnston County; I.D. No. B-4771; Project No. 38543.2.1:
Bridge No. 11 over Mill Creek on SR 1201

(Division 5)

Wake County; I.D. No. W-5601CR; Project No. 50138.2.97:
US 70 Business at SR 2555 (Raynor Road/Auburn-Knightdale Road)

Person County; I.D. No. B-5327; Project No. 46041.2.1:
Bridge No. 49 over South Hyco Creek on SR 1300

Vance County; I.D. No. B-4945; Project No. 39971.2.1:
Bridge No. 36 over Kerr Lake on SR 1374 (Anderson Creek Road)

(Division 8)

Hoke County; I.D. No. B-5755; Project No. 45711.2.1:
Bridge No. 57 over Puppy Creek on SR 1406 (Rockfish Road)

Montgomery County; I.D. No. B-5362; Project No. 46077.2.1:
Bridge No. 53 over Drowning Creek on NC 73

Randolph County; I.D. No. U-5758; Project No. 50172.2.1:
US 220 Business (Fayetteville Street) at intersection of US 220 Business and Presnell Street in Asheboro

Randolph County; I.D. No. W-5601EK; Project No. 50138.2.142:
US 311 from SR 1524 (Beckerdite Road) to SR 1525 (Beeson Farm Road)

(Division 9)

Forsyth County; I.D. No. U-4741OJ; Project No. 39745.2.F27:
Rural – NC 65 (Runningbrook Lane to Norvasa Street)

Forsyth County; I.D. No. R-2247EA; Project No. 34409.2.27:
Winston-Salem Northern Beltway from NC 67 to South of US 52 (Legal Services Only)

(Division 10)

Cabarrus County; I.D. No. C-4916C; Project No. 44016.2.2:
Kannapolis – Sidewalk along Oakwood Avenue around Shady Brook School

Mecklenburg County; I.D. No. C-5533; Project No. 45506.2.F1:
Charlotte – the Intersection of SR 5469 (Shopton Road) and SR 1156 (Beam Road)

Mecklenburg County; I.D. No. U-5804B; Project No. 44376.2.2:
SR 3448 (South Trade Street) from Four Mile Creek on Weddington Road

Mecklenburg County; I.D. No. I-4750AC; Project No. 40099.2.8:
I-77 at Exit 30 (Griffith Street) interchange, construct roundabouts at Northbound and Southbound Ramp Terminal

(Division 11)

Caldwell County; I.D. No. R-5745; Project No. 50200.2.1:
Intersection of US 64/NC 90/NC 18 (Wilkesboro Boulevard) and NC 64/NC 90 (Taylorsville Road)

(Division 12)

Iredell County; I.D. No. C-5529; Project No. 51043.2.F1:
Intersection of NC 115 and Faith Road – Campus Lane in Morrisville, Realign Faith Road to tie into existing NC 115/Campus Lane Intersection and construct dedicated turn lanes on Faith Road and Campus Lane approaches to the intersection

Iredell County; I.D. No. B-4982; Project No. 40159.2.1:
Bridge No. 38 over Third Creek on US 21-NC115

PRELIMINARY RIGHT OF WAY PLANS

25 PROJECT(S)

\$0.00

Final Right of Way Plans

A motion was made by Board Member McQueary, seconded by Board Member Brown, to approve the following:

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. 46478.2.1; Tyrrell County; I.D. No. B-5936:

Bridge Rehabilitation on Bridge No. 7 over Alligator River on US 64 with the right of way indicated upon the final plans for said project.

(Division 8)

Project No. 46074.2.2; Randolph County; I.D. No. B-5360:

Grading, drainage, paving and structures on Bridge No. 374 over Sandy Creek on SR 2481 (Low Bridge Road) with the right of way indicated upon the final plans for said project.

Project No. 45538.2.1; Randolph County; I.D. No. B-5546:

Grading, drainage, paving and structures on Bridge No. 307 over Mount Pleasant Creek on SR 2481 (Low Bridge Road) with the right of way indicated upon the final plans for said project.

(Division 10)

Project No. 32638.2.2; Anson County; I.D. No. B-2506:

Structure, grading, paving and drainage on Bridge No. 8 over Brown Creek on SR 1627 with the right of way indicated upon the final plans for said project.

Project No. 39010.2.2; Cabarrus County; I.D. No. U-3440:

Grading, drainage, paving, signals, structures, culverts and retaining wall in Kannapolis – NC 3 from proposed West Side Bypass (U-2009) to SR 1691 (Loop Road) with the right of way indicated upon the final plans for said project.

Project No. 40373.2.FR2; Cabarrus County; I.D. No. U-4910B:

Grading, drainage, paving, widening and signals on SR 1445 (Derita Road) from Aviation Boulevard to SR 1394 (Poplar Tent Road) (U-4910A) with the right of way indicated upon the final plans for said project.

(Division 11)

Project No. 46095.2.1; Avery County; I.D. No. B-5380:

Grading, drainage, paving and structure on Bridge No. 141 over Fall Branch on SR 1114 (Big Plumtree Creek Road) with the right of way indicated upon the final plans for said project.

(Division 14)

Project No. B-5125; Macon County; I.D. No. B-5125:

Grading, drainage, paving, signal and structure on Bridge No. 22 over Little Tennessee River on US 441 Business with the right of way indicated upon the final plans for said project.

FINAL RIGHT OF WAY PLANS

8 PROJECT(S)

\$0.00

Revisions of the Final Right of Way Plans

A motion was made by Board Member McQueary, seconded by Board Member Brown, to approve the following:

Right of way acquisition in accordance with the final right of way plans for the following projects has been determined to be necessary and authorized by the Board. Plans are on file at the Office of the Secretary to the Board of Transportation as an addendum to the minutes of the meetings hereinafter indicated.

Certain changes in right of way, construction and drainage easements, and control of access have been necessitated by alterations in the construction plans of these projects. Amended plan sheets for these projects have been prepared which provide for changes of certain right of way areas, construction and drainage easements and control of access.

The Board finds that the revised areas of right of way, construction and drainage easements and control of access, as shown on the amended plan sheets hereinafter set out, are for a public purpose and are necessary for the construction of projects.

The right of way, construction and drainage easements and control of access are hereby revised as shown on the plan sheets incorporated herein as an addendum, said projects, date of original final approval, and revised right of way, easements and access being as follows:

(Division 5)

Project No. 34915.2.1; I.D. No. U-3308; Durham County:

Final Right of Way plans approved on the minutes of the June 2, 2016 Board of Transportation Meeting. Revised additional right of way, easements or control of access shown on plan sheet(s) 12 as presented at the October 6, 2016 Board of Transportation Meeting.

REVISION FINAL ROW PLANS

1 PROJECT(S)

\$0.00

Approval of Conveyance of Wetland Mitigation Site

A motion was made by Board Member McQueary, seconded by Board Member Brown, to approve the following:

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 7)

Project 8.1380501, R-2241

Project 40547.2.1, R-4906

Projects 34418.2.3/34429.2.4, R-2303AB/R-2413C

Riverbend Mitigation Site

Caswell County

The Department received a request for the disposal of a residue property of approximately 193 acres. The NC Wildlife Resources Commission has requested that the Department transfer this property to them for the existing NC Wildlife Game Land Program along the Dan River. The grantee will be required to provide the Department a conservation easement and easement of ingress and egress. The NC Wildlife Resources Commission has agreed to this conveyance for no monetary consideration.

CONVEYANCE OF WETLAND MITIGATION SITE 1 PROJECT(S) \$0.00

Approval of Conveyance of Highway Right of Way Residues

A motion was made by Board Member McQueary, seconded by Board Member Brown, to approve the following:

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 8)

**Project 34431.2.2, Parcel R-2417AA 029, US 421/NC 87 (Sanford Bypass) from West of SR 1400 to West of US 1/15-501
Lee County**

Conveyance of an approximate 0.400-acre residue area to Winfred R. Tysor and Hazel S. Tysor, the highest bidders after public advertisement, for the high bid amount of \$5,700.00.

(Division 10)

**Project 8.1674902, Parcel R-0203A 058, NC 24/27 from SR 3128 (Lawyers Road) to SR 3137 in Charlotte
Mecklenburg County**

Conveyance of an approximate 0.315-acre residue area to the H. Dale Rexrode, the highest bidder after public advertisement, for the high bid amount of \$10,000.00.

CONVEYANCE OF ROW RESIDUE 2 PROJECT(S) \$15,700.00

Approval of Conveyance of Surplus Highway Right of Way

A motion was made by Board Member McQueary, seconded by Board Member Brown, to approve the following:

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 5)

**Project 8.1403901, Parcel R-2906 063, NC 55 from US 64 in Wake County to SR 1121 (Cornwallis Road) in Durham County
Wake County**

Abandonment of an approximate 0.212-acre permanent drainage easement area to the D. Cooke Properties, LLC for no monetary consideration.

(Division 6)

**Project 8.2326302, Intersection of Player Avenue and Owen Drive
Cumberland County**

Abandonment of an approximate 0.212-acre permanent easement area to Emily, LLC for no monetary consideration.

CONVEYANCE OF SURPLUS RIGHT OF WAY 2 PROJECT(S) \$0.00

Approval of Revision in Control of Access

A motion was made by Board Member McQueary, seconded by Board Member Brown, to approve the following:

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 11)

**Project 6.759003T, Parcel R-0429BA 016, US 421 near SR 1655
Watauga County**

Grant of a revision in the existing control of access to Sabin Carroll for a shift in the access break along US 421 near SR 1655 (Landfill Road) just outside the city limits of Boone, for no monetary consideration.

APPROVAL OF REVISION IN CONTROL OF ACCESS 1 PROJECT(S) \$0.00

Approval of Advance Acquisition of Highway Right of Way

A motion was made by Board Member McQueary, seconded by Board Member Brown, to approve the following:

Upon recommendation of the Manager of the Right of Way Unit, the Board has been requested to authorize the acquisition of the following properties through negotiation or condemnation for purposes of highway construction in order to prevent undue hardship on property owners or to protect the right of way corridor from development prior to regular project approval. The Board finds such acquisitions to be necessary, and hereby authorizes the Right of Way Unit to acquire said properties either by negotiation or by condemnation through the Office of the Attorney General.

Division 5

**Property of James E. Grem A/W Oleta
I.D. No. R-2829, Parcel #900,
WBS 35517.2.1, F. A. Project N/A,
County of Wake**

CONVEYANCE OF ADVANCE ACQUISITION 1 PROJECT(S) \$0.00

R-ITEM SUMMARY 41 PROJECT(S) TOTAL: \$0.00

Committee Reports

Chair Curran – Chair of the Road Naming Committee, provided an update.

Chair Curran – Chair of the Audit Committee, provided an update.

Jim Crawford, Member of the Highways Committee, provided an update.

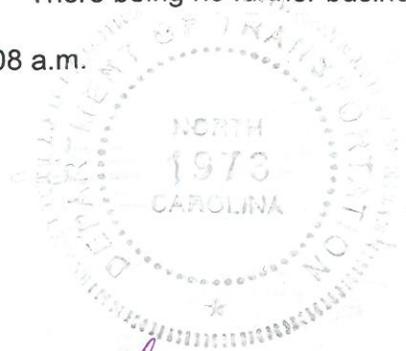
Cheryl McQueary, Chair of Funding and Appropriation Strategies, provided an update for the joint meeting of FAST and Economic Development and Intergovernmental Relations Committee .

Andy Perkins, Chair of Multi-Modal Committee, provided an update.

Other Business

Adjournment

There being no further business to come before the Board, the meeting was adjourned at 9:08 a.m.



[Handwritten Signature]

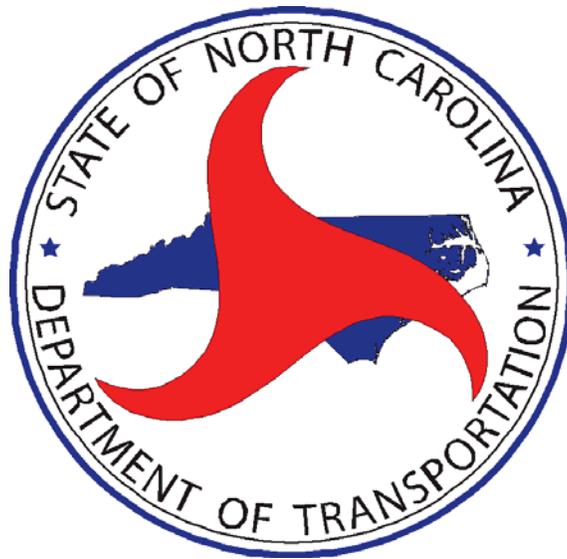
Chairman,
North Carolina Board of Transportation

Attest: *[Handwritten Signature: Lereca W. Batts]*
Secretary to the Board of Transportation

Dated this 3 day of November, 2016

**NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION**

TRAFFIC NOISE POLICY



Effective Date: October 6, 2016

Noise Policy Committee: Glenn Mumford, PERoadway Design Unit
Drew Joyner, PE.....Human Environment Section
Brian Hanks, PE.....Structures Management Unit
Daniel Keel, PE.....Division of Highways
Mike Mills, PE.....Division Engineer
Pat Ivey, PE.....Division Engineer
Greg Smith, PE.....Human Environment Section

Sponsors: Clarence Coleman, PEFederal Highway Administration
Felix Davila, PE.....Federal Highway Administration
Edward L. Curran.....Board of Transportation

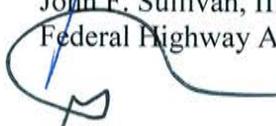
APPROVED BY:

10-6-16
Date of Approval



John F. Sullivan, III, PE, Division Administrator
Federal Highway Administration

10.6.16
Date of Approval



Nicholas J. Tennyson
Secretary of Transportation

10-5-16
Date of Approval



Edward L. Curran, Chairman
Board of Transportation

Person Responsible
for Policy:

Traffic Noise & Air Quality Supervisor
Human Environment Section
1598 Mail Service Center
Raleigh, North Carolina 27699-1598
(919) 707-6087

DEFINITIONS

- a) **Decibel (dB)** - The logarithmic unit for measuring sound pressure levels. For traffic noise measurements, decibels are most commonly reported in terms of the A-weighting frequency scale, which best includes the frequencies to which human hearing is typically most sensitive and is denoted by the abbreviation dB(A).
- b) **Leq** – The equivalent steady -state sound level which, in a defined period of time, contains the same amount of acoustic energy as a time-varying sound level during the same period of time.
- c) **Receptor** – Any location that receives traffic noise.
- d) **Impacted Receptor** – A receptor for which the predicted hourly equivalent traffic noise level 1) meets or exceeds the approach criteria value found in Table 1 of this policy or 2) exceeds the existing ambient noise level by 10 dB(A) or more.
- e) **Benefited Receptor** - All receptors, both impacted and non-impacted, that receive a noise level reduction of 5 dB(A) or more through placement of a noise abatement measure.
- f) **Noise Abatement Measure** – Any method used to reduce traffic noise levels, such as noise walls and earthen berms.
- g) **Worst Noise Hour** – The hour within a day in which the highest magnitude hourly equivalent sound level occurs. The worst traffic noise hour typically occurs when traffic is flowing freely at a high volume relative to the peak traffic hour volume, with a high percentage of trucks.
- h) **Practicable** – Available and capable of being done after taking into consideration cost, existing technology, and logistics in light of overall project purposes.

INTRODUCTION

This document represents the North Carolina Department of Transportation (hereinafter NCDOT) policy on highway traffic noise and construction noise and describes the implementation of the requirements of the Federal Highway Administration (hereinafter FHWA) Noise Standard at 23 Code of Federal Regulations Part 772 (23 CFR 772) as they relate to federal-aid and select state-funded highway construction in North Carolina. This policy was developed by the NCDOT and reviewed and approved by the FHWA.

The North Carolina Department of Transportation Traffic Noise Manual and 23 CFR 772 are intended to be companion documents to this policy.

PURPOSE

This policy describes the NCDOT process that is used in determining traffic noise impacts and abatement measures and the equitable and cost-effective expenditure of public funds for noise abatement. Where the FHWA has given highway agencies flexibility in implementing the 23 CFR 772 standards, this policy describes the NCDOT approach to implementation.

APPLICABILITY

Projects with a Date of Public Knowledge on or after the effective date of this policy shall comply with the criteria of this policy.

Federal–Aid Projects

This policy applies to all "Type I" federal or federal-aid highway projects in the State of North Carolina, including federal projects that are administered by local public agencies. Therefore, this policy applies to any highway project that is funded with federal-aid highway funds or requires FHWA approval regardless of funding sources. NCDOT does not participate in nor fund Type II (retrofit) projects along existing transportation facilities. Noise analyses are not required for Type III projects. Each of these project types are defined below. This policy shall be applied uniformly and consistently to all Type I federal projects throughout North Carolina.

Type I Project

- (a) The construction of a highway on new location; or,
- (b) The physical alteration of an existing highway where there is either:
 - (i) Substantial Horizontal Alteration. A project that halves the distance between the traffic noise source and the closest receptor between the existing condition to the future build condition; or,
 - (ii) Substantial Vertical Alteration. A project that removes shielding, therefore exposing the line-of-sight between the receptor and the traffic noise source. This is done by either altering the vertical alignment of the highway or by altering the topography between the highway traffic noise source and the receptor; or,
- (c) The addition of a through-traffic lane(s). This includes the addition of a through-traffic lane that functions as a HOV lane, High-Occupancy Toll (HOT) lane, bus lane, or truck climbing lane; or,
- (d) The addition of an auxiliary lane, except for when the auxiliary lane is a turn lane; or,
- (e) The addition or relocation of interchange lanes or ramps added to a quadrant to complete an existing partial interchange; or,
- (f) Restriping existing pavement for the purpose of adding a through-traffic lane or an auxiliary lane; or,
- (g) The addition of a new or substantial alteration of a weigh station, rest stop, ride-share lot or toll plaza.
- (h) If a project is determined to be a Type I project under this definition then the entire project area as defined in the environmental document is a Type I project.

Type II Project.

A Federal or Federal-aid highway project for noise abatement on an existing highway. For a Type II project to be eligible for Federal-aid funding, the highway agency must develop and implement a Type II program in accordance with 23 CFR 772.7(e).

Type III Project

A Federal or Federal-aid highway project that does not meet the classifications of a Type I or Type II project. Type III projects do not require a noise analysis.

The highway traffic noise prediction requirements, noise analyses, noise abatement criteria, and requirements for informing local officials in 23 CFR 772 and this policy constitute the noise standards mandated by 23 U.S.C. 109(1). All federally-funded highway projects which are developed in conformance with this policy shall be deemed to be in accordance with the FHWA noise standards.

State-Funded Projects

Projects that are State funded do not use the federal project type designation for applicability.

This policy will apply to State funded projects located on a US or Interstate route that is full control of access where the project involves adding a through-traffic lane.

All other State-funded projects for which a State Environmental Assessment (EA) or State Environmental Impact Statement (EIS) is prepared will comply with the North Carolina Environmental Policy Act (SEPA) and the North Carolina Administrative Code. For these projects, noise barriers will be considered where practicable.

DATE OF PUBLIC KNOWLEDGE

The Date of Public Knowledge of the location and potential noise impacts of a proposed highway project is the approval date of the final environmental document, e.g., Categorical Exclusion (CE), State or Federal Finding of No Significant Impact (FONSI) or State or Federal Record of Decision (ROD).

NCDOT is not responsible for evaluating or implementing any noise barriers to protect developed lands that were not permitted before the Date of Public Knowledge.

The criterion for determining when undeveloped land is permitted for development is the approval date of a building permit for an individual lot or site. Approval of a development plat or any other development plan does not meet the permitted criteria.

NCDOT advocates use of local government authority to regulate land development, planning, design and construction in such a way that noise impacts are minimized.

TRAFFIC NOISE PREDICTION

All traffic noise analyses performed by or for NCDOT must utilize the most current version of the FHWA Traffic Noise Model (TNM®) or any other model determined by the FHWA to be consistent with the methodology of the TNM® model, pursuant to 23 CFR 772.9.

Average pavement type shall be used in the FHWA TNM® for future noise level prediction.

Noise contour lines may be used only for project alternative screening or for providing information to local officials for their land use planning efforts associated with undeveloped lands as per 23 CFR 772.17. Noise contours shall not be used for determining highway traffic noise impacts or assessing noise barriers.

Traffic characteristics that yield the worst noise hour equivalent traffic noise levels, expressed in Leq(h), for the Design Year shall be used in predicting noise levels and assessing noise impacts.

Traffic noise prediction must adhere to all direction contained in the NCDOT Traffic Noise Manual.

NOISE IMPACT DETERMINATION

Noise abatement measures for NCDOT highway projects must be considered when traffic noise impacts are created by either of the following two conditions:

- (a) The predicted worst noise hour Leq(h) traffic noise levels for the Design Year approach (reach one decibel less than) or exceed the Noise Abatement Criteria (NAC) contained in 23 CFR 772 and in Table 1, found on page 4 of this policy, OR
- (b) The predicted worst noise hour Leq(h) traffic noise levels for the Design Year substantially exceed existing noise by 10 dB(A) or more.

A receptor is a discrete or representative location within a noise sensitive area(s) for any of the land uses listed in Table 1. For multifamily dwellings, each residence shall be counted as one receptor when determining impacted and benefited receptors. Non-residential receptors shall be represented by Equivalent Receptors calculated according to direction contained in the NCDOT Traffic Noise Manual.

Primary consideration shall be given to exterior areas where frequent human use occurs in the determination of traffic noise impacts.

A traffic noise analysis shall be completed for each project alternative under detailed study and for all receptors and Equivalent Receptors defined to represent land use activities A, B, C, D, and E listed in Table 1 that are present in the study area. FHWA approval is required for designating a Category A Activity on federally-funded projects. Traffic noise analyses are not required for Activity Category F land uses. Noise predictions are required for Activity Category G land uses to the extent needed to develop estimated noise levels to provide to local officials for planning purposes.

Table 1			
Noise Abatement Criteria			
Hourly Equivalent A-Weighted Sound Level (decibels (dB(A)))			
Activity Category	Activity Criteria¹ Leq(h)²	Evaluation Location	Activity Description
A	57	Exterior	Lands on which serenity and quiet are of extraordinary significance and serve an important public need and where the preservation of those qualities is essential if the area is to continue to serve its intended purpose.
B ³	67	Exterior	Residential
C ³	67	Exterior	Active sport areas, amphitheatres, auditoriums, campgrounds, cemeteries, daycare centers, hospitals, libraries, medical facilities, parks, picnic areas, places of worship, playgrounds, public meeting rooms, public or nonprofit institutional structures, radio studios, recording studios, recreation areas, Section4(f) sites, schools, television studios, trails, and trail crossings
D	52	Interior	Auditoriums, day care centers, hospitals, libraries, medical facilities, places of worship, public meeting rooms, public or nonprofit institutional structures, radio studios, recording studios, schools, and television studios
E ³	72	Exterior	Hotels, motels, offices, restaurants/bars, and other developed lands, properties or activities not included in A-D or F
F	--	--	Agriculture, airports, bus yards, emergency services, industrial, logging maintenance facilities, manufacturing, mining, rail yards, retail facilities, shipyards, utilities (water resources, water treatment, electrical), and warehousing
G	--	--	Undeveloped lands that are not permitted

¹ The Leq(h) Activity Criteria values are for impact determination only, and are not design standards for noise abatement measures.

² The equivalent steady-state sound level which in a stated period of time contains the same acoustic energy as the time-varying sound level during the same time period, with Leq(h) being the hourly value of Leq.

³ Includes undeveloped lands permitted for this activity category.

ANALYSIS OF NOISE ABATEMENT MEASURES

When traffic noise impacts are identified, noise abatement measures shall be considered and evaluated for feasibility for all impacted receptors and reasonableness for all benefited receptors. All of the following conditions must be met in order for noise abatement measures to be justified and incorporated into project design, as applicable. Failure to achieve any single element of feasibility or reasonableness will result in the noise abatement measure being deemed not feasible or not reasonable, whichever applies.

NCDOT will provide noise barriers for all possible impacted receptors that meet the feasibility and reasonableness criteria found in this policy. Noise barriers will not be extended solely to provide noise reduction for non-impacted receptors. Benefits for non-impacted receptors will only occur when they are incidental in noise barriers designed for impacted receptors.

Feasibility

The combination of acoustical and engineering factors considered in the evaluation of a noise barrier.

- (a) Any receptor that receives a minimum noise level reduction of five dB(A) due to a noise barrier shall be considered a benefited receptor. Noise reduction of five dB(A) must be achieved for at least two impacted receptors.
- (b) Engineering feasibility of noise barriers shall consider adverse impacts created by or upon property access, drainage, topography, utilities, safety, and maintenance requirements.

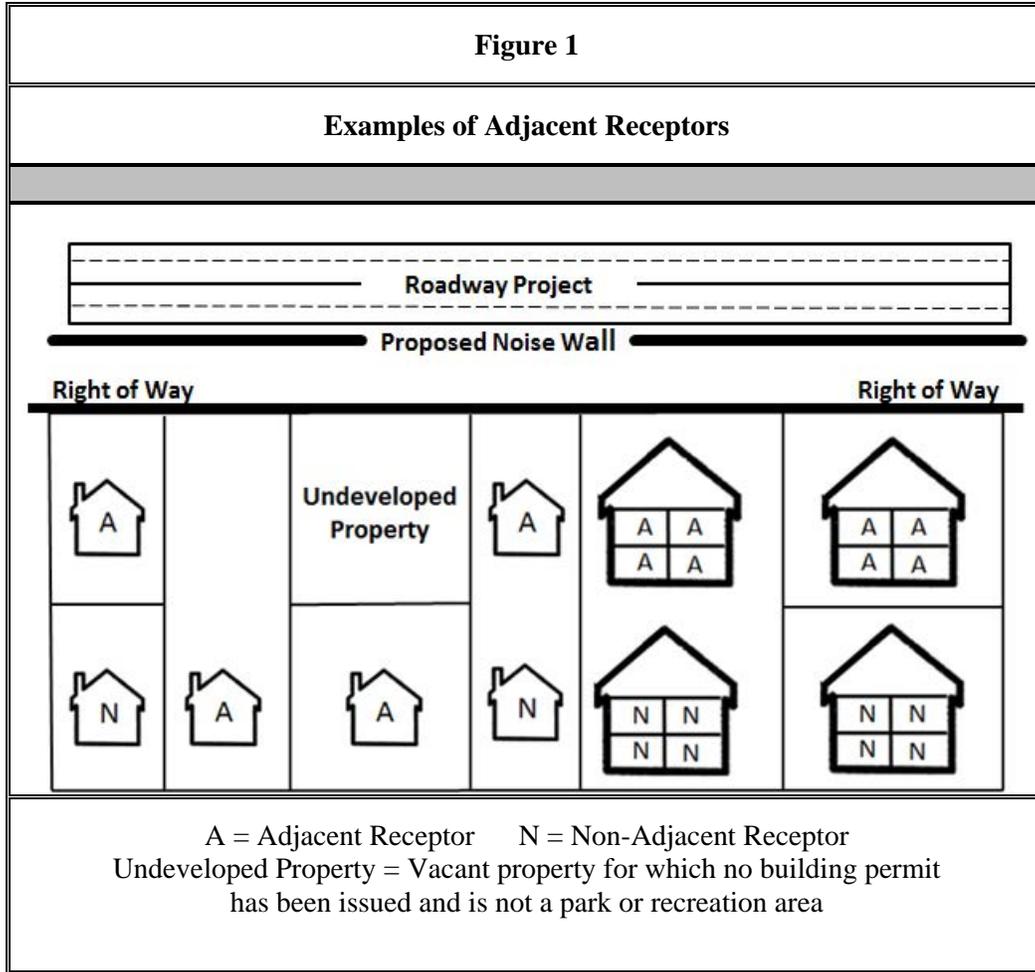
Reasonableness

The combination of social, economic, and environmental factors considered in the evaluation of a noise barrier.

- (a) Property owners and tenants of all benefited receptors shall be solicited to obtain their preferences for or against a proposed noise barrier. No tenant ballots are distributed for vacant rental property. Points per ballot shall be distributed in the following weighted manner:
 - 5 points/ballot for adjacent property owners who reside at property
 - 4 points/ballot for adjacent property owners who rent property to others
 - 3 points/ballot for all non-adjacent property owners who reside at property
 - 2 points/ballot for all non-adjacent property owners who rent property to others
 - 1 point/ballot vote for all tenants of rental property

Adjacent Receptor is a benefited receptor that 1) represents a property that abuts the highway right of way or 2) has no benefited receptor between it and the highway. Where multiple buildings containing benefited receptors are on the same property, such as an apartment or condominium complex, only the building closest to the highway is an adjacent receptor. Adjacent receptors will most often, but not always, be part of the front row of benefited receptors. Figure 1 provides graphic examples of Adjacent Receptors.

Owners of multi-unit rental locations will receive the applicable number of owner points for each individual benefited receptor (rental unit) owned.



If 50% or greater of all possible voting points from benefited receptors for each noise barrier are received on the first solicitation, a simple majority of voting points cast will be used to determine if the proposed noise barrier will be constructed.

If less than 50% of all possible points for each noise barrier are received on the first solicitation, a second solicitation will be sent to benefited receptors who did not respond to the first solicitation.

If a second solicitation is conducted and 50% or greater of all possible voting points for each noise barrier are received after the second solicitation, a simple majority of voting points cast will be used to determine whether or not the proposed noise barrier will be constructed.

If less than 50% of total possible points for a noise barrier are received after the second solicitation, the noise barrier will not be constructed.

Noise barriers will be constructed in the case of a tie (equal number of points for and against a noise barrier).

All balloting soliciting the viewpoints of benefited property owners and applicable residents/tenants that occurs after the effective date of this policy, regardless of the Date of Public Knowledge, shall comply with the criteria of this policy.

- (b) The allowable quantities for noise barriers per benefited receptor, with allowances for incremental increases based upon existing and predicted noise levels of all impacted receptors within each noise study area, are shown in Table 2.

For the purpose of calculating the incremental increase, the Noise Abatement Criteria (NAC) values for Activity Categories A, B, C, D, and E, as shown in Table 1, are to be used and not the NCDOT “approach” values used in traffic noise impact determinations.

Table 2			
Allowable Noise Barrier Base Quantities			
Maximum Allowable Base Quantity	Noise Level Consideration	Noise Wall	Earthen Berm
		1,500 ft ²	4,200 yd ³
Average dB(A) Increase Between Existing and Future Build for All Impacted Receptors	< 5 dB(A)	+ 0 ft ²	+ 0 yd ³
	5-10 dB(A)	+ 500 ft ²	+ 1,400 yd ³
	> 10 dB(A)	+ 1,000 ft ²	+ 2,800 yd ³
Average Exposure to Absolute Noise Levels for All Impacted Receptors	< 5 dB(A) Over NAC Activity Category	+ 0 ft ²	+ 0 yd ³
	5-10 dB(A) Over NAC Activity Category	+ 500 ft ²	+ 1,400 yd ³
	> 10 dB(A) Over NAC Activity Category	+ 1,000 ft ²	+ 2,800 yd ³

- (c) A noise reduction design goal of at least 7 dB(A) must be evaluated for all benefited receptors. At least one benefited receptor must achieve the noise reduction design goal of 7 dB(A) to indicate the proposed noise barrier effectively reduces traffic noise.

Other Considerations

Prior to CE approval or issuance of a FONSI or ROD, NCDOT shall identify in all applicable environmental documents:

- (a) Noise barriers that are feasible and reasonable,
- (b) Noise impacts for which no noise barrier appears to be feasible and reasonable;

- (c) Locations where noise impacts will occur, where noise barriers are feasible and reasonable, and the locations that have no feasible and reasonable noise barriers.
- (d) Whether it is “likely” or “unlikely” that noise barriers will be installed for each noise sensitive area identified. "Likely" does not mean a firm commitment. The final decision on the installation of noise barriers shall be made upon completion of the project design, the public involvement process, compliance with the NCDOT Policy, and FHWA approval.

Third Party Participation

- (a) Third party funding of noise barriers cannot be used to make up the difference between the reasonable quantity allowance and the actual quantity of noise barriers. Third party funding is allowed only by local, state and federal government agencies, and can only be used to pay for additional features such as landscaping and aesthetic treatments for noise barriers that meet all feasible and reasonable criteria previously detailed in this policy. Private parties may freely enter into agreements with government agencies to develop noise barrier enhancements; however, all funding for enhancements paid to NCDOT must come from government agencies
- (b) Traditional highway construction resources pay for required noise barriers. Should a local government request that materials be used that are more costly than the standard materials proposed by NCDOT, the requesting entity must assume 100% of the actual additional construction cost.
- (c) If a local government insists on the provision of a noise barrier deemed not reasonable by NCDOT, a noise barrier may be installed provided the local government assumes 100% of the costs and obtains an encroachment permit from NCDOT to perform the work. These costs include, but are not limited to, preliminary and final engineering, actual construction and all related maintenance. In addition, local governments must ensure that NCDOT's material, design and construction specifications are met. The local government must also assume 100% of the liability associated with the measure and hold harmless the NCDOT.
- (d) For (b) and (c) above, the settlement agreement shall be signed before third party noise barrier design begins and payment shall be made to NCDOT in accordance with N.C.G.S. 136-66.3(e).

ARCHITECTURAL TREATMENT OF NOISE WALLS

The standard noise wall architectural treatment consists of:

- (a) Concrete columns; Steel piles may be used when necessary to address site conditions adverse to the use of concrete columns;
- (b) Precast concrete panels textured on both sides;
- (c) No texture on the uppermost foot of each wall segment;
- (d) A single color of stain in brown or gray tones applied to both sides of textured panels;
- (e) No stain applied to the uppermost foot of each wall segment and the concrete columns.

All enhancements to this standard noise wall must be paid for in accordance with Third Party Participation provisions in this policy.

NCDOT Division Engineers are responsible for determining noise wall textures and colors in their respective Divisions.

PUBLIC INVOLVEMENT

Communication with the community regarding noise impacts and possible noise abatement shall occur at the start of the noise study process and continue throughout the development of the project. NCDOT will communicate with citizens to present information on the nature of highway traffic noise and discuss the effects of noise abatement and how public preferences for noise abatement is solicited via a balloting process.

Noise study areas showing “likely” noise barriers and/or proposed locations of any “recommended” noise barriers will be presented and discussed when holding Public Hearings and Public Meetings. Likely noise barriers are based on preliminary design traffic noise analyses and are described in environmental documents. Recommended noise barriers are based on final design noise analyses and are usually identified after the environmental document is completed. Property owners and tenants who are being balloted for a recommended noise barrier will be provided a visual of the noise barrier location prior to their casting a ballot.

COORDINATION WITH LOCAL OFFICIALS

NCDOT will provide all traffic noise analyses to local government officials within whose jurisdiction a highway project is proposed as early in the project planning process as possible to protect future development from becoming incompatible with traffic noise levels. Specifically, environmental documents and design noise reports will contain information identifying areas that may be impacted by traffic noise, predicted noise level contour information, the best estimation of future noise levels for developed and undeveloped lands or properties in the immediate vicinity of the project and other appropriate design information. If requested, NCDOT will assist local officials with coordination and distribution of this information to residents, property owners and developers. NCDOT will provide information to assist local jurisdictions in the development of local noise controls, when requested. NCDOT strongly advocates the planning, design and construction of noise-compatible development and encourage its practice among planners, building officials, developers and others.

CONSTRUCTION NOISE

To minimize the impacts of construction noise on the public, NCDOT shall:

- (a) Identify land uses or activities that may be affected by noise from construction of the project.
- (b) Determine the measures that are needed in the plans and specifications to minimize or eliminate adverse construction noise impacts to the community. This determination shall consider the benefits achieved and the overall adverse social, economic, and environmental effects and costs of the abatement measures.
- (c) Consider construction techniques and scheduling to reduce construction noise impacts to nearby receptors and incorporate the needed abatement measures in the project plans and specifications.

FEDERAL PARTICIPATION

The costs of noise barriers may be included in federal-aid participating project costs with the federal share being the same as that for the system on which the project is located when:

- (a) Traffic noise impacts have been identified; and
- (b) Noise barriers have been determined to be feasible and reasonable pursuant to 23 CFR 772 and this policy.

REVIEW OF POLICY

This policy shall be reviewed by the NCDOT Board of Transportation at least every five years.