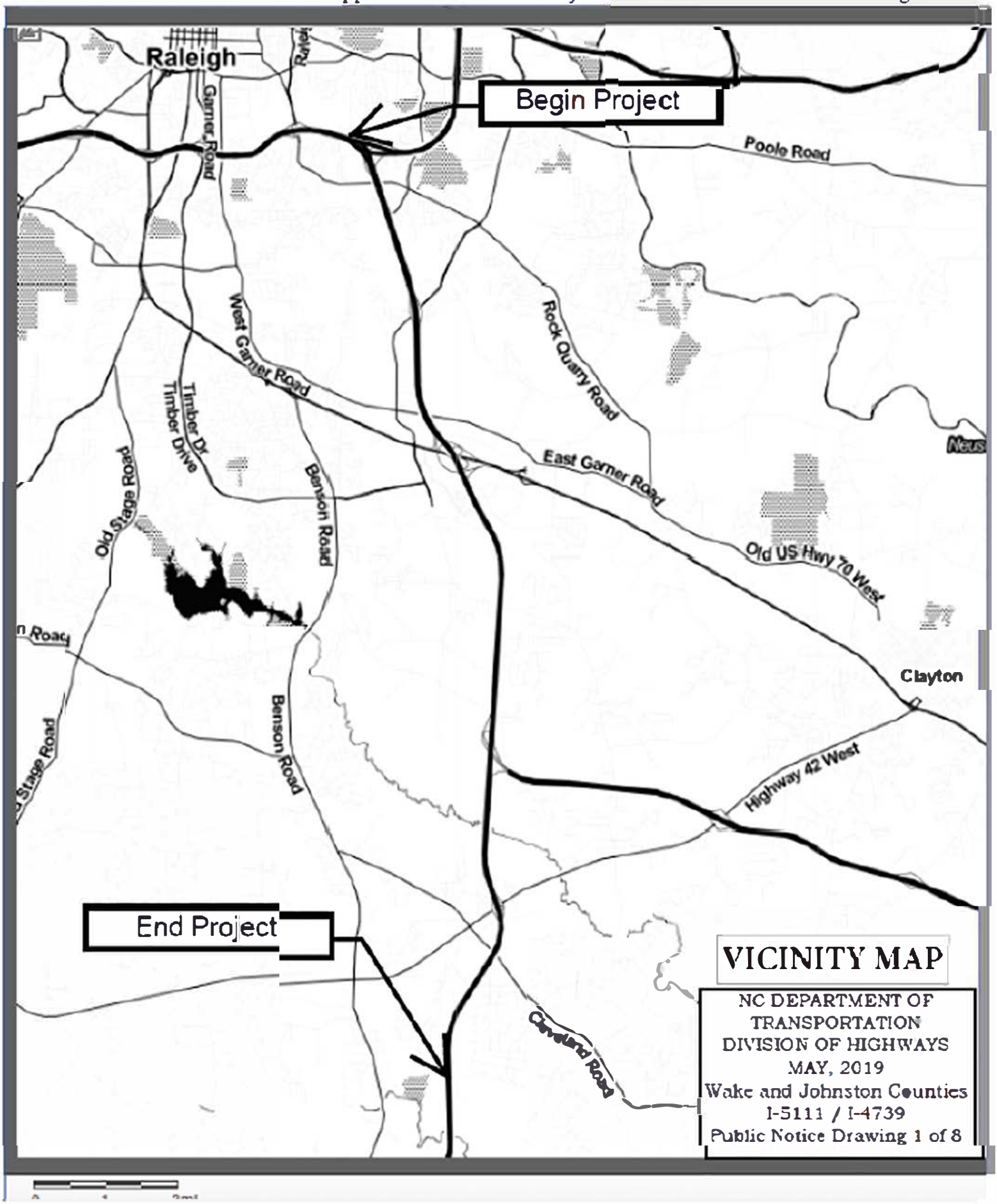


VICINITY MAP

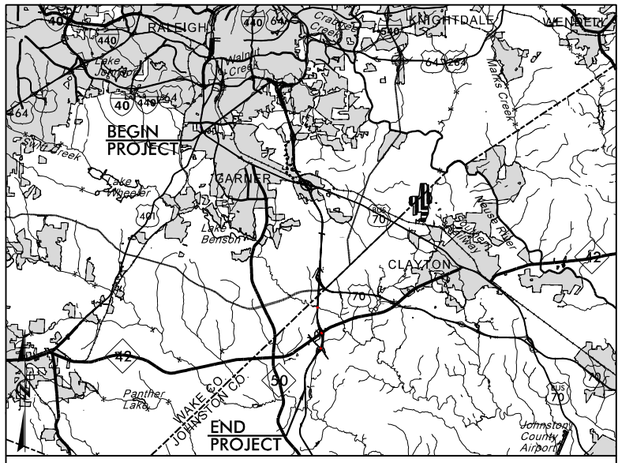
NC DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
MAY, 2019
Wake and Johnston Counties
I-5111 / I-4739
Public Notice Drawing 1 of 8

09/08/96

TIP PROJECT: I-5111 /I-4739

CONTRACT: C204134

See Sheet 1-B For Plan Sheet Symbols



VICINITY MAP (NTS)

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

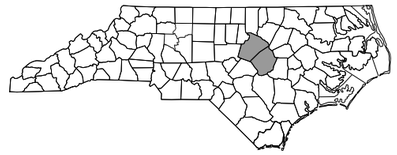
WAKE & JOHNSTON COUNTIES

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	I-5111 /I-4739	1	
STATE PROJ. NO.	F. A. PROJ. NO.	DESCRIPTION	
42346.3.1	IMNHF-040-4(139)301	PE	

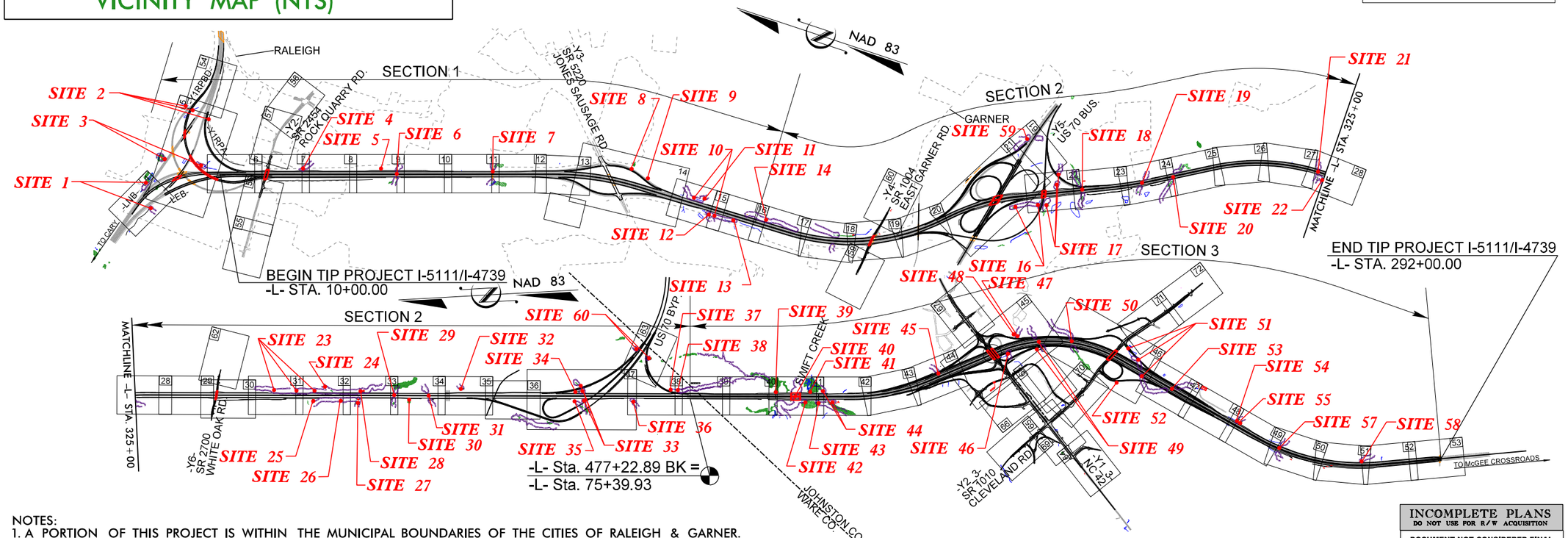
LOCATION: *I-40 FROM I-440 /US 64 (EXIT 301) TO JUST NORTH OF SR 1525 (CORNWALLIS ROAD), INCLUDING IMPROVEMENTS TO NC 42 AND SR 1010 (CLEVELAND ROAD).*

TYPE OF WORK: *GRADING, DRAINAGE, PAVING, WIDENING, RESURFACING & STRUCTURES*

WETLAND AND STREAM IMPACTS



PERMIT DRAWING SHEET 1 OF 125



NOTES:
1. A PORTION OF THIS PROJECT IS WITHIN THE MUNICIPAL BOUNDARIES OF THE CITIES OF RALEIGH & GARNER.
2. CLEARING ON THIS PROJECT SHALL BE PERFORMED TO THE LIMITS ESTABLISHED BY METHOD III MODIFIED.
3. THIS IS A CONTROLLED-ACCESS PROJECT WITH ACCESS BEING LIMITED TO INTERCHANGES.

INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

GRAPHIC SCALES

PLANS: 50 25 0 50 100

PROFILE (HORIZONTAL): 50 25 0 50 100

PROFILE (VERTICAL): 10 5 0 10 20

DESIGN DATA

ADT 2018 = 106,200
ADT 2040 = 137,200
DHV = 65%
D = 9%
T = 9% *
V = 70 MPH & 75 MPH **
FUNC CLASS: URBAN INTERSTATE
* (TTST 5% + DUAL 4%)
** DESIGN SPEED CHANGES AT US 70 BUS

PROJECT LENGTH

LENGTH ROADWAY TIP PROJECT I-5111 /I-4739..... 12.950 miles
LENGTH STRUCTURE TIP PROJECT I-5111 /I-4739..... 0.094 miles
TOTAL LENGTH OF PROJECT I-5111 /I-4739..... 13.044 miles

NCDOT CONTACT

K. Zak Hamidi, P.E.
PROJECT ENGINEER - DESIGN-BUILD UNIT

PLANS PREPARED BY:

RK&K — RUMMEL, KLEPPER & KAHL, LLP, 900 RIDGEFIELD DRIVE, SUITE 350, RALEIGH, NORTH CAROLINA 27609, NC LICENSE NO. F-0112

FOR NORTH CAROLINA DEPARTMENT OF TRANSPORTATION

S.T. WOOTEN

2018 STANDARD SPECIFICATIONS

LETTING DATE: JUNE 19, 2018

Brandon J. McInnis, P.E.
PROJECT ENGINEER

Mary E. Yahl, P.E.
PROJECT DESIGN ENGINEER

NC DOT
DIVISION OF HIGHWAYS
MAY, 2019 Wake and Johnston Counties I-5111 / I-4739
Public Notice Drawing 2 of 8

4/15/2019
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WETLAND AND SURFACE WATER IMPACTS SUMMARY

			WETLAND IMPACTS					SURFACE WATER IMPACTS				
Site No.	Station (From/To)	Structure Size / Type	Permanent Fill In Wetlands (ac)	Temp. Fill In Wetlands (ac)	Excavation in Wetlands (ac)	Mechanized Clearing in Wetlands (ac)	Hand Clearing in Wetlands (ac)	Permanent SW impacts (ac)	Temp. SW impacts (ac)	Existing Channel Impacts Permanent (ft)	Existing Channel Impacts Temp. (ft)	Natural Stream Design (ft)
1	-LEB- 12+14 RT	HW Replacement - SZ						< 0.01	< 0.01	13	14	
1	-LWB- 18+77 LT	Rip Rap Outlet Pad - SZ						< 0.01	< 0.01	20	20	
2	-Y1RPA- 32+52 RT	Concr. Ditch Replacement - SAA							< 0.01		29	
2	-Y1RPBD- 31+06 RT	Prop Rdwy Fill - SAA						0.01		45		
2	-Y1RPBD- 30+62 LT	Rip Rap Outlet Pads - SAA						< 0.01	< 0.01	12	10	
3	-Y1RPBD- 46+74 to 48+93 LT	Prop Pipes & Bridge Construction - SBB						< 0.01	0.05	24	240	
4	-L- 39+21 LT	Rip Rap Outlet Pad - SB						< 0.01	< 0.01	13	10	
4	-L- 40+19 LT	Ditch Outfall - SB						< 0.01	< 0.01	18	27	
5	-L- 59+13 to 62+63 LT	Channel Change - SC						0.03	< 0.01	352	12	
6	-L- 64+53 RT	Channel work at 8'x8' RCBC inlet - SD						0.02	< 0.01	78	11	
6	-L- 65+38 LT	Channel work at 8'x8' RCBC outlet - SD						0.01	< 0.01	51	30	
7	-L- 90+96 RT	Channel work at 10'x9' RCBC inlet - WC, SF	< 0.01	0.04				0.06	0.02	85	90	
7	-L- 91+39 LT	Channel work at 10'x9' RCBC outlet - WD, SF		0.01				0.08	< 0.01	80	10	
8	-Y3RPA- 23+91 LT	Prop Rdwy Fill and Rip Rap Pad - SNN						< 0.01		59		
8	-Y3RPA- 23+45 RT	Channel Change - SNN						< 0.01	< 0.01	12	4	
9	-Y3RPA- 17+58 RT	Rip Rap at pipe outfalls - SOO						< 0.01	< 0.01	23	8	
TOTALS*:			< 0.01	0.05				0.24	0.11	885	515	0

*Rounded totals are sum of actual impacts

NC DOT
DIVISION OF HIGHWAYS
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Wake and Johnston Counties
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Revised 2016 09 09

WETLAND AND SURFACE WATER IMPACTS SUMMARY

			WETLAND IMPACTS					SURFACE WATER IMPACTS				
Site No.	Station (From/To)	Structure Size / Type	Permanent Fill In Wetlands (ac)	Temp. Fill In Wetlands (ac)	Excavation in Wetlands (ac)	Mechanized Clearing in Wetlands (ac)	Hand Clearing in Wetlands (ac)	Permanent SW impacts (ac)	Temp. SW impacts (ac)	Existing Channel Impacts Permanent (ft)	Existing Channel Impacts Temp. (ft)	Natural Stream Design (ft)
10	-L- 151+95 RT	Perm & Temp Channel Work - SG, SI						< 0.01	0.01	30	113	
10	-L- 145+45 to 149+23 LT	Channel Change and stabilization - SG, SH						0.03	< 0.01	496	18	
13	-L- 157+90 RT	Plug and Fill of Existing Outlet - SG							< 0.01		21	
13	-L- 158+46 to 159+72 RT	Roadway Fill Slope - SG						< 0.01	0.01	20	108	
TOTALS*:								0.04	0.03	546	260	0

*Rounded totals are sum of actual impacts

NC DOT
DIVISION OF HIGHWAYS
MAY, 2019
Wake and Johnston Counties
I-5111 / I-4739
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WETLAND AND SURACE WATER IMPACTS SUMMARY

Site No.	Station (From/To)	Structure Size / Type	WETLAND IMPACTS					SURFACE WATER IMPACTS				
			Permanent Fill In Wetlands (ac)	Temp. Fill In Wetlands (ac)	Excavation in Wetlands (ac)	Mechanized Clearing in Wetlands (ac)	Hand Clearing in Wetlands (ac)	Permanent SW impacts (ac)	Temp. SW impacts (ac)	Existing Channel Impacts Permanent (ft)	Existing Channel Impacts Temp. (ft)	Natural Stream Design (ft)
14A	-L- 168+98-169+22 LT	BANK STABILIZATION - SRM						< 0.01	< 0.01	5	20	
14B	-L- 172+50-172+75 LT	BANK STABILIZATION - SRM						< 0.01	< 0.01	8	43	
14C	-L- 175+91-176+26 LT	BANK STABILIZATION - SRM						< 0.01	< 0.01	34	10	
15	ONLY IN BUFFER SET											
16A	-Y5RPD- 22+19-22+29 RT	EXIST. 24" CMP PLUG - SCF							< 0.01		10	
16B	-Y5RPD- 24+79 RT	EXIST. 15" CMP PLUG - SCF							< 0.01		15	
16C	-Y5RPC- 53+31 LT	60" RCP - SCF, WQF		< 0.01	< 0.01			< 0.01	< 0.01	46	10	
17	-Y5RCP- 54+38-54+68 RT	60" RCP - SOE, WQV		< 0.01				< 0.01	< 0.01	12	21	
	-Y5RCP- 54+68-55+37 RT	BANK STABILIZATION - SOE						< 0.01		84		
	-L- 250+27 LT	60" WSP - SOE						0.01		87		
	-L- 250+27 LT	BANK STABILIZATION - SOE						< 0.01		40		
	-Y5RPA- 22+51-22+93 RT	60" WSP - SOE						< 0.01	< 0.01	49	5	
18	-L- 256+39-257+51 LT & RT	DITCH, 66" WSP- SOI	< 0.01					< 0.01	< 0.01	62	6	
	-L- 256+70 LT	BANK STABILIZATION - SOI, WSD		0.02	0.02			< 0.01	< 0.01	34	11	
19	-L- 272+67-275+51 LT & RT	DITCH, 66" WSP - SNF						0.02	< 0.01	134	14	
20	-L- 281+93-284+50 LT & RT	CHANNEL CHANGE - SNH, WQE		0.01	< 0.01			< 0.01	< 0.01	99	46	
	-L- 284+50 LT	BANK STABILIZATION - SNH						< 0.01	< 0.01	5	10	
	-L- 287+00 LT	FILL SLOPE - WRX				< 0.01						
21	-L- 322+40-323+33 LT & RT	CHANNEL CHANGE, 72" RCP, SNY						0.02	< 0.01	138	19	
22	-L- 323+33-324+31 RT	CHANNEL CHANGE - SOC						0.01	< 0.01	108	22	
23A	-L- 362+54-364+61 LT	CHANNEL CHANGE - SLF / SEM						0.01	< 0.01	204	23	
23B	-L- 368+90-369+15 LT	BANK STABILIZATION - SEM						< 0.01	< 0.01	5	20	
23C	-L- 374+40-379+01 LT	CHANNEL CHANGE - SEM						0.02	< 0.01	455	10	
	-L- 379+01-379+22 LT	BANK STABILIZATION - SEM						< 0.01	< 0.01	12	10	
24	-L- 378+63-379+12 LT	BANK STABILIZATION - SLI, WNQ	0.02					< 0.01	< 0.01	56	15	
TOTALS*:			0.02	0.03	0.02	< 0.01		0.15	0.03	1678	339	0

*Rounded totals are sum of actual impacts

NOTES:

NC DOT
DIVISION OF HIGHWAYS
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Wake and Johnston Counties
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Public Notice Drawing 5 of 8

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WETLAND AND SURACE WATER IMPACTS SUMMARY

			WETLAND IMPACTS					SURFACE WATER IMPACTS				
Site No.	Station (From/To)	Structure Size / Type	Permanent Fill In Wetlands (ac)	Temp. Fill In Wetlands (ac)	Excavation in Wetlands (ac)	Mechanized Clearing in Wetlands (ac)	Hand Clearing in Wetlands (ac)	Permanent SW impacts (ac)	Temp. SW impacts (ac)	Existing Channel Impacts Permanent (ft)	Existing Channel Impacts Temp. (ft)	Natural Stream Design (ft)
25	ONLY IN BUFFER SET											
26A	-L- 381+90 RT	BANK STABILIZATION - SNK						< 0.01	< 0.01	5	10	
26B	-L- 385+85-386+27 RT	BANK STABILIZATION - SNK						< 0.01	< 0.01	42	10	
27	-L- 386+25 RT	BANK STABILIZATION - SNO						< 0.01	< 0.01	26	15	
28	-L- 387+46-387+93	60" WSP - SEM						0.01	< 0.01	41	20	
29	-L- 395+85 RT	CHANNEL CHANGE - SEK						< 0.01	< 0.01	48	10	
	-L- 396+45 LT	BANK STABILIZATION - SEK						< 0.01	< 0.01	37	10	
30	-L- 400+05 RT	ROADWAY FILL - WEC	< 0.01	< 0.01								
31	-L- 405+95 LT & RT	66" RCP - SEL						< 0.01	< 0.01	90	25	
32	-L- 416+74-416+93 LT	BANK STABILIZATION - SEV						< 0.01	< 0.01	10	10	
33	-L- 447+90 LT & RT	54" RCP & 54" WSP - SDT, WFA, WFC	0.01		0.01			0.01	< 0.01	127	10	
34	-L- 445+24-447+90 LT	ROADWAY FILL - SDU, WFB	0.01		0.04			< 0.01		88		
35	ONLY IN BUFFER SET											
36	-L- 461+16-461+39 RT	36" WSP - SDO						< 0.01		23		
	-L- 461+37-431+65 RT	BANK STABILIZATION - SDO						< 0.01	< 0.01	31	10	
37	-Y8RPA- 14+95-15+75 RT	36" RCP - WEZ	0.02									
38	ONLY IN BUFFER SET											
59	-Y5RPB- 43+22-44+62 LT	2 @ 48" RCP, CHANNEL CHANGE - SRN						0.01	< 0.01	159	10	
60	-Y8RPB- 39+80 LT	CHANNEL WORK - SET, WEX	0.06			0.02		< 0.01	< 0.01	51	10	
	-Y8RPA- 27+35 RT	BANK STABILIZATION - SET, WEX		< 0.01				< 0.01	< 0.01	23	10	
TOTALS*:			0.11	0.01	0.05	0.02		0.08	0.01	801	161	0

*Rounded totals are sum of actual impacts

NOTES:

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WETLAND AND SURACE WATER IMPACTS SUMMARY

Site No.	Station (From/To)	Structure Size / Type	WETLAND IMPACTS: Permanent Fill In Wetlands (ac)	WETLAND IMPACTS: Temp. Fill In Wetlands (ac)	WETLAND IMPACTS: Excavation in Wetlands (ac)	WETLAND IMPACTS: Mechanized Clearing in Wetlands (ac)	WETLAND IMPACTS: Hand Clearing in Wetlands (ac)	SURFACE WATER IMPACTS: Permanent SW impacts (ac)	SURFACE WATER IMPACTS: Temp. SW impacts (ac)	SURFACE WATER IMPACTS: Existing Channel Impacts Permanent (ft)	SURFACE WATER IMPACTS: Existing Channel Impacts Temp. (ft)	SURFACE WATER IMPACTS: Natural Stream Design (ft)
39A	-L- 98+30-99+62 LT	ROADWAY FILL - WEM	0.07			0.02						
39B	-L- 101+93-102+66 LT	ROADWAY FILL - WEM	0.01			0.01						
40	-L- 103+59-104+95 LT & RT	BANK STABILIZATION - SDG						0.12	0.03	254	90	
41	-L- 107+69-109+35 LT	ROADWAY FILL - WEP(1)				0.02						
42	-L- 104+95-108+09 RT	ROADWAY FILL - SDN, WEN	0.23	0.01		0.10		0.02		200		
43	-L- 110+24-110+66 RT	ROADWAY FILL - SEO							< 0.01		40	
44	-L- 111+78-114+64 LT & RT	60" RCP, ROADWAY FILL, DITCH - SEQ, WEO(1)			0.04			0.02		269		
	-L- 111+58-111+85 LT	BANK STABILIZATION - SEQ						< 0.01	< 0.01	16	11	
45	-L- 144+01-144+56 LT	48" CSP - SEU						0.01		154		
	-L- 143+75-144+08 LT	BANK STABILIZATION - SEU						< 0.01	< 0.01	40	11	
46	-L- 164+25-164+78 RT	30" CSP / 36" RCP - SEA, WOE	0.02					0.01		168		
47	-Y1RPA- 16+63-17+14 RT	54" CSP - SLV						< 0.01		62		
	-Y1RPA- 16+58-16+65 RT	BANK STABILIZATION - SLV						< 0.01	< 0.01	45	11	
48	-Y1RPA- 16+66-17+11 RT	ROADWAY FILL, RIPRAP - SLW						< 0.01	< 0.01	14	51	
49	-L- 171+49-174+67 LT & RT	66" WSP / 66" RCP - SLU, WC, WOB	0.06					0.03		284		
	-L- 171+40-174+63 LT & RT	BANK STABILIZATION - SLU						< 0.01	< 0.01	64	30	
50	-LCDWB- 64+67-68+61 LT & RT	60" CSP, CHANNEL CHANGE - SLS,WOA	0.05	0.02				0.06	< 0.01	588	57	
51	-Y2RPA3- 23+20-23+82 LT	ROADWAY FILL - WNZ	0.02									
	-Y2RPA3- 20+23-23+20	ROADWAY FILL - PBL						0.58				
	-L- 199+51-205+31	ROADWAY FILL, 66" RCP - SLR, WH	0.03					0.04		612		
	-Y2RPD3- 15+76-16+19 LT	BANK STABILIZATION- SLR						< 0.01	< 0.01	55	15	
52	-Y2RPD3- 23+65-24+43 LT	DITCH, ROADWAY FILL - WGG		0.01		0.02						
53	-L- 210+53-215+65 LT	54" RCP / 66" RCP - MILL BRANCH						0.06	< 0.01	401	7	
	-L- 210+21-210+61 RT	BANK STABILIZATION - MILL BRANCH						< 0.01	< 0.01	29	17	
TOTALS*:			0.49	0.05	0.04	0.18		0.98	0.05	3256	340	0

*Rounded totals are sum of actual impacts

NOTES:

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WETLAND AND SURACE WATER IMPACTS SUMMARY

			WETLAND IMPACTS					SURFACE WATER IMPACTS				
Site No.	Station (From/To)	Structure Size / Type	Permanent Fill In Wetlands (ac)	Temp. Fill In Wetlands (ac)	Excavation in Wetlands (ac)	Mechanized Clearing in Wetlands (ac)	Hand Clearing in Wetlands (ac)	Permanent SW impacts (ac)	Temp. SW impacts (ac)	Existing Channel Impacts Permanent (ft)	Existing Channel Impacts Temp. (ft)	Natural Stream Design (ft)
54	-L- 232+69-233+35 LT	54" WSP - SJ, WI	0.06					< 0.01		82		
	-L- 233+33-233+44 LT	BANK STABILIZATION - SJ						< 0.01	< 0.01	45	10	
55	-L- 233+94-234+19 LT	48" RCP - SK, WJ	< 0.01					< 0.01		78		
	-L- 234+02-234+11 LT	BANK STABILIZATION - SK						< 0.01	< 0.01	40	10	
56	-L- 246+22-246+77 RT	CHANNEL CHANGE - SEE						< 0.01	< 0.01	102	10	
57	-L- 246+73-247+65	60" WSP - SDD, WFF	0.01					0.02	< 0.01	238	10	
	-L- 247+59-247+78 LT	BANK STABILIZATION - SDD						< 0.01	< 0.01	55	9	
58	-L- 269+75-270+63 LT	36" WSP - SQ						< 0.01		100		
	-L- 270+58-270+85 LT	BANK STABILIZATION - SQ						< 0.01	< 0.01	33	27	
TOTALS*:			0.09					0.06	< 0.01	773	76	0
PROJECT TOTALS*:			**0.72**	**0.14**	**0.11**	**0.21**		**1.55**	**0.24**	**7939**	**1691**	

NOTES:
*Rounded totals are sum of actual impacts

NC DOT
DIVISION OF HIGHWAYS
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