



PAT McCrory
Governor

NICHOLAS J. TENNYSON
Secretary

November 23, 2016

Wilmington Regulatory Field Office
US Army Corps of Engineers
69 Darlington Avenue
Wilmington, North Carolina 28403

ATTN: Ms. Liz Hair
NCDOT Coordinator

Subject: **Request for Modification to Individual Section 404 and Section 401 Water Quality Certification** for Fayetteville Outer Loop from I-95 South of Fayetteville to NC 24-87, Cumberland, Hoke, and Robeson Counties. Federal Aid Project No. NHF-DPR-0100(001), State Project No. 8.2441301, TIP Nos. X-0002 B & C, and U-2519 AA, AB, BA, BB, CA, CB, DA, & E. Debit \$570 from WBS 35196.3.19

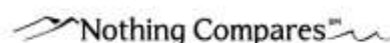
References: Section 404 and 401 Individual Permit Application requested April 25, 2008
Section 404 Individual Permit issued October 23, 2008 (SAW-2008-01413)
Section 401 Water Quality Certification issued October 6, 2008 (003278)
Section 404 and 401 Modification requested May 21, 2010
Section 401 Modification issued June 3, 2010 (20080737 v.2)
Section 404 and 401 Modification requested October 7, 2010
Section 401 Modification issued December 16, 2010 (20080737 v.3)
Section 404 Modification issued December 21, 2010 (SAW-2008-01413)
Section 401 Modification issued May 22, 2014 (20080737 v.4)
Section 404 Modification issued June 24, 2014 (SAW-2008-01413)

Dear Madam:

The purpose of this modification request is to provide revisions to the final design for U-2519 CB. Due to Fort Bragg's addition of an Access Control Point (ACP) on Canopy Lane, NCDOT was able to modify the location of Tank Trail 4 (TT4). By shifting TT4 east toward Canopy Lane, permanent wetland and stream impacts were reduced by 0.20 acre and 353 feet, respectively at Sites 15 & 16.

Due to this modification, permanent wetland impacts will be reduced from 5.86 acres to 5.66 acres and the net stream impacts will be reduced from 942 feet to 589 feet. Please see the attached revised permit drawings.

Compensatory mitigation for the reduction of 0.20 acre of wetland impacts will be credited back to the Privateer Wetland and Stream Mitigation Site. This reduces total project (U-2519 & X-0002



B&C) wetland impacts to 48.59 acres. The reduction of 353 feet of stream impacts will be credited back to the Privateer Wetland and Stream Mitigation Site, bringing the total project stream impacts to 12,442 feet.

Proposed utility relocations for U-2519 CB have also been adjusted since the April 30, 2014 modification request to avoid all jurisdictional resources.

Regulatory Approvals

Section 404: We are hereby requesting the modifications described above the USACE Individual 404 Permit signed October 23, 2008 (SAW-2008-01413).

Section 401: We are hereby requesting a modification to the 401 Water Quality Certification from the NCDWR issued October 6, 2008 (DWQ No. 003278).

A copy of this modification request will be posted on the NCDOT website at: <https://connect.ncdot.gov/resources/Environmental>

Thank you for your assistance with this project. If you have any questions or need additional information, please contact Tyler Stanton at 919-707-6156 or tstanton@ncdot.gov.

Sincerely,

A handwritten signature in black ink, appearing to read "P. Harris III", with a horizontal line extending to the right.

Philip S. Harris III, P.E., C.P.M, Manager
Natural Environment Section

8/17/99

PROJECT REFERENCE NO. U-2519CB	SHEET NO. 2-BB
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
PRELIMINARY PLANS DO NOT USE FOR CONSTRUCTION	
	ROADWAY DESIGN ENGINEER

PERMIT DRAWINGS
SHEET 33 OF 50
REVISED 10/19/16

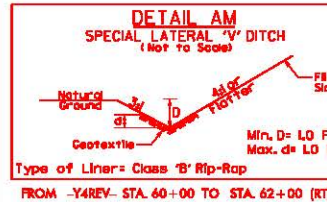
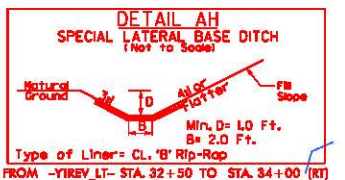
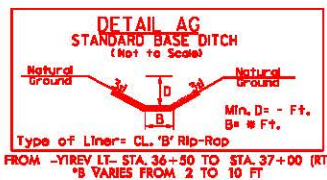
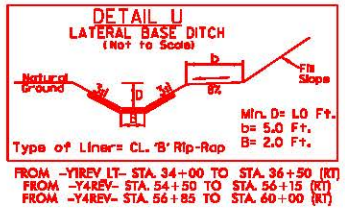
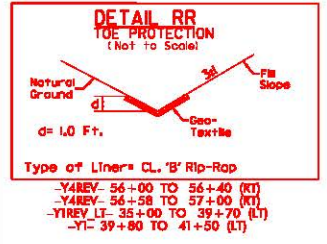
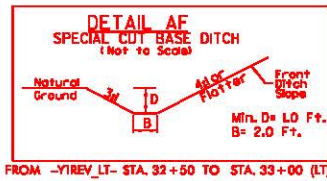
FUTURE ACTIVE VEHICLE BARRIER

LEGEND

	DENOTES IMPACTS IN SURFACE WATER
	DENOTES TEMPORARY IMPACTS IN SURFACE WATER
	DENOTES FILL IN WETLAND
	DENOTES MECHANIZED CLEARING
	DENOTES HAND CLEARING
	DENOTES EXCAVATION IN WETLAND
	DENOTES WORK BRIDGE



REMOVAL PAVEMENT REMOVAL



SITE 15

SITE 16

SEE DETAIL SHTS. 2-BI THRU 2-BK FOR ISLANDS AND PAVEMENT DIMENSIONS AND CONSTRUCTION DETAILS.
FOR -YIREV_LT- PROFILE SEE SHT. 2-BE
FOR -YIREV_RT- PROFILE SEE SHT. 2-BF

PLANS PREPARED BY :
RK&K
RUMMEL, KLEPPER & KAHL, LLP
900 RIDGEFIELD DRIVE SUITE 350
RALEIGH, NORTH CAROLINA 27609-3960
NC LICENSE NO. F-0112 • (919) 878-9560

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DATE

PROJECT REFERENCE NO. <i>U-2519CB</i>		SHEET NO. 2-BB	
RW SHEET NO.			
ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER	
PRELIMINARY PLANS DO NOT USE FOR CONSTRUCTION			
		ROADWAY DESIGN ENGINEER	

FUTURE ACTIVE VEHICLE BARRIER

PERMIT DRAWINGS
SHEET 34 OF 50
REVISED 10/19/16

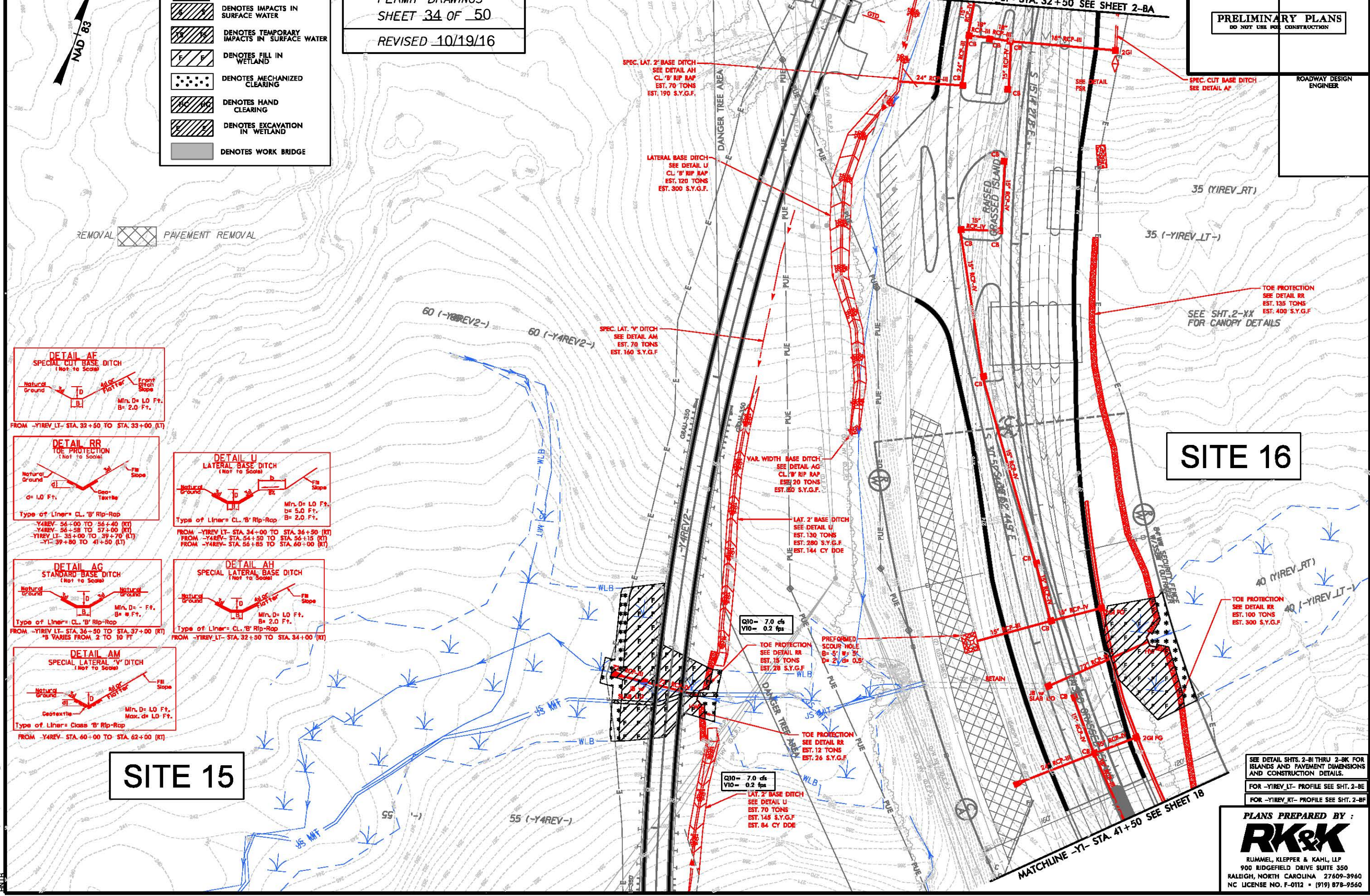
LEGEND	
[Hatched Box]	DENOTES IMPACTS IN SURFACE WATER
[Hatched Box]	DENOTES TEMPORARY IMPACTS IN SURFACE WATER
[Cross-hatched Box]	DENOTES FILL IN WETLAND
[Dotted Box]	DENOTES MECHANIZED CLEARING
[Hatched Box]	DENOTES HAND CLEARING
[Hatched Box]	DENOTES EXCAVATION IN WETLAND
[Grey Box]	DENOTES WORK BRIDGE

8/17/99
1/24/15 PM
1/24/15 PM
1/24/15 PM

<p>DETAIL AF SPECIAL CUT BASE DITCH (Not to Scale)</p> <p>Min. D= 1.0 Ft. B= 2.0 Ft.</p> <p>FROM -YIREV_LI- STA. 32+50 TO STA. 33+00 (LI)</p>	<p>DETAIL RR TOE PROTECTION (Not to Scale)</p> <p>d= 1.0 Ft.</p> <p>Type of Liner= CL 'B' Rip-Rap</p> <p>-Y4REV- 56+00 TO 56+40 (RT) -Y4REV- 56+58 TO 57+00 (RT) -YIREV_LI- 35+00 TO 39+70 (LI) -YI- 39+80 TO 41+50 (LI)</p>	<p>DETAIL U LATERAL BASE DITCH (Not to Scale)</p> <p>Min. D= 1.0 Ft. D= 5.0 Ft. B= 2.0 Ft.</p> <p>Type of Liner= CL 'B' Rip-Rap</p> <p>FROM -YIREV_LI- STA. 34+00 TO STA. 36+50 (RT) FROM -Y4REV- STA. 54+50 TO STA. 56+15 (RT) FROM -Y4REV- STA. 56+85 TO STA. 60+00 (RT)</p>
<p>DETAIL AG STANDARD BASE DITCH (Not to Scale)</p> <p>Min. D= 9 Ft. B= 9 Ft.</p> <p>Type of Liner= CL 'B' Rip-Rap</p> <p>FROM -YIREV_LI- STA. 36+90 TO STA. 37+00 (RT) B VARIES FROM 2 TO 10 FT</p>	<p>DETAIL AH SPECIAL LATERAL BASE DITCH (Not to Scale)</p> <p>Min. D= 1.0 Ft. B= 2.0 Ft.</p> <p>Type of Liner= CL 'B' Rip-Rap</p> <p>FROM -YIREV_LI- STA. 32+50 TO STA. 34+00 (RT)</p>	<p>DETAIL AM SPECIAL LATERAL 'V' DITCH (Not to Scale)</p> <p>Min. D= 1.0 Ft. Max. d= 1.0 Ft.</p> <p>Type of Liner= Class 'B' Rip-Rap</p> <p>FROM -Y4REV- STA. 60+00 TO STA. 62+00 (RT)</p>

SITE 15

SITE 16



SEE DETAIL SHTS. 2-BI THRU 2-BK FOR ISLANDS AND PAVEMENT DIMENSIONS AND CONSTRUCTION DETAILS.

FOR -YIREV_LI- PROFILE SEE SHT. 2-BE

FOR -YIREV_RT- PROFILE SEE SHT. 2-BF

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WETLAND PERMIT IMPACT 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)
1	-L- 821+59 TO 830+76	Bridge	-	-	-	-	2.60	-	0.01	-	5	-
2	-TT1- 46+10 TO 46+73	48" CSP	-	-	-	-	-	0.01	0.01	69	19	-
	-TT1- 46+29	Bank Stabilization	-	-	-	-	-	-	-	10	-	-
3	-L- 836+61 TO 838+07	Roadway & 42" RCP	0.33	-	-	0.02	-	-	-	-	-	-
4	-L- 838+80 TO 841+17	Roadway	0.10	-	0.07	0.02	-	-	-	-	-	-
5	-L- 847+36 TO 849+22	Roadway & 36" RCP	0.62	-	-	0.07	-	-	-	-	-	-
6	-L- 852+83 TO 853+64	Roadway	0.11	-	-	0.02	-	-	-	-	-	-
7	-L- 855+25 TO 855+70	Roadway	0.07	-	-	0.01	-	-	-	-	-	-
8	-L- 859+50 TO 861+81	Roadway & 30" RCP	0.62	-	-	0.04	-	-	-	-	-	-
9	-L- 864+39 TO 865+64	Roadway & 54" RCP	0.27	-	-	0.04	-	-	-	-	-	-
10	-L- 889+04 TO 902+62	Roadway & Bridge	1.47	-	0.30	0.17	2.18	-	-	-	-	-
11	SITE ELIMINATED	N/A	-	-	-	-	-	-	-	-	-	-
12	-L- 908+82 TO 909+03	Roadway	-	-	-	0.01	-	-	-	-	-	-
13	-Y2REV_LT- 34+55 TO 36+20	Roadway	0.27	-	-	-	-	0.01	-	80	-	-
	-Y2REV_LT- 35+03	Bank Stabilization	-	-	-	-	-	-	-	10	-	-
14	-Y2REV_LT- 29+32 TO 29+33	66" RCP	-	-	-	-	-	0.01	0.01	25	10	-
	-Y2REV_LT- 29+33	Bank Stabilization	-	-	-	-	-	-	-	10	-	-
15	-TT4- 54+56 TO 58+27	Roadway & 72" RCP	0.24	-	-	0.06	-	0.01	0.01	87	30	-
16	-Y1- 39+18 TO 40+61	Roadway & 72" RCP	0.16	-	-	0.04	-	-	-	-	-	-
17	SITE ELIMINATED	N/A	-	-	-	-	-	-	-	-	-	-
18	-L- 49+55 TO 53+31	Roadway & 60" RCP	0.25	-	-	0.07	-	0.02	-	135	-	-
	-L- 53+08	Bank Stabilization	-	-	-	-	-	-	-	20	-	-
	-TT4DA- 43+45 TO 56+12	Roadway & 48" RCP	0.16	-	-	0.05	-	0.02	0.01	133	11	-
	-TT4DA- 54+75	Bank Stabilization	-	-	-	-	-	-	-	10	-	-
19	-L- 89+00 TO 93+35	Bridge	-	-	-	-	2.62	-	-	-	-	-
20	-RP1C- 42+50 TO 48+50	Bridge	-	-	-	-	0.89	-	-	-	-	-
TOTALS:			4.67	0.00	0.37	0.62	8.29	0.08	0.05	589	75	0

- Notes:
- Total for "Existing Channel Impacts - Permanent" includes 40' of Bank Stabilization at culvert outlets.
 - Site 4 includes 0.05 acres of "Total Take"
 - Site 8 includes 0.13 acres of "Total Take"
 - Site 13 includes 0.18 acres of "Total Take"
 - Permanent Wetland Impacts from bridge pier installation = 0.03
 - Temporary Wetland Impacts from work bridge pier installation = 0.02
 - All impacts at Sites 19 & 20 other than those associated with the Bridge Construction shown, were permitted under Project U-2519DA.

NC DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

CUMBERLAND COUNTY

U-2519CB

Rev. 11/1/2016

SHEET

50 OF 50

10/8/2013