



STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION

ROY COOPER
GOVERNOR

J. ERIC BOYETTE
SECRETARY

September 24, 2021

U. S. Army Corps of Engineers
Regulatory Field Office
151 Patton Avenue, Room 208
Asheville, NC 28801-5006

ATTN: Ms. Lori Beckwith
NCDOT Coordinator

Subject: **Request for Modification to the Section 404 Individual Permit and Section 401 Water Quality Certification** for the proposed US 221 Widening from US 421 to US 221 Business/NC 88 in Jefferson in Watauga and Ashe Counties. Federal Aid Project No. STP-0221(13), Division 11, TIP No. R-2915. Debit \$570 from WBS 34518.1.FR6.

Reference: USACE Individual Permit Action ID SAW-2012-00882, January 7, 2015.
USACE Individual Permit Modification ID SAW-2012-00882, August 31, 2016
USACE Individual Permit Modification ID SAW-2012-00882, December 7, 2017
USACE Individual Permit Modification ID SAW-2012-00882, December 27, 2019
NCDWR Project No. 20140762, Certification No. 4001, September 8, 2014.
NCDWR Project No. 20140762_v2, Certification No. 4001, August 23, 2016
NCDWR Project No. 20140762_v3, Certification No. 4001, April 28, 2017
NCDWR Project No. 20140762, e-mail authorization, November 27, 2017
NCDWR Project No. 20140762_v4, Certification No. 4001, June 26, 2018
NCDWR Project No. 20140762_v5, Certification No. 4001, May 22, 2019

Dear Madam:

The purpose of this letter is to request a modification of the United States Army Corps of Engineers (USACE) Section 404 Individual Permit and North Carolina Division of Water Resources Section 401 Certification for the above referenced project. This modification presents changes to one permit site

Mailing Address:
NC DEPARTMENT OF TRANSPORTATION
ENVIRONMENTAL ANALYSIS UNIT
1598 MAIL SERVICE CENTER
RALEIGH NC 27699-1598

Telephone: (919) 707-6000
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Customer Service: 1-877-368-4968
Website: www.ncdot.gov

Location:
1000 BIRCH RIDGE DRIVE
RALEIGH NC 27610

in the E section (Site 8B) where installation of a new stormwater pipe will result in additional temporary stream and wetland impacts as well as stream bank stabilization impacts to Little Buffalo Creek and wetland W110 due to a temporary bore pit required for the stormwater pipe installation.

All changes in impacts due to the new stormwater pipe and the associated temporary bore pit at Site 8B in the E Section are in *red italics*. Please see the enclosed DWR Pre-Filing Meeting Request Form and revised permit drawings for Section E.

Summary of R-2915 Jurisdictional Impacts:

Impacts for the overall (Sections A-E) project will include 3.05 acres of permanent wetland impacts, *0.28* acre of temporary wetland impacts, and 0.05 acre of hand clearing in wetlands. There will also be *9,147* linear feet of permanent stream impacts (7,485 linear feet of fill and *1,662* linear feet of bank stabilization), and *0.42* acre of temporary stream impacts (see Tables 1 and 2 for a breakdown of impacts by Section).

Table 1 – Summary of Wetland Impacts for R-2915

Section	Design Stage	Wetland Impact Type	Wetland Impact Area (ac)	Wetland Impacts Requiring Mitigation (ac)*
R-2915A	Final	Perm. Wetland Fill	0.48	0.57
		Excavation in Wetlands	0.01	
		Mechanized Clearing in Wetlands	0.08	
		Hand Clearing in Wetlands	0.05†	
R-2915B	Final	Perm. Wetland Fill	0.32	0.43
		Excavation in Wetlands	0.04	
		Mechanized Clearing in Wetlands	0.06	
		Temporary Fill in Wetlands	0.15	
R-2915C	Final	Perm. Wetland Fill	0.22	0.27
		Excavation in Wetlands	--	
		Mechanized Clearing in Wetlands	0.05	
R-2915D	Final	Perm. Wetland Fill	1.01	1.32
		Excavation in Wetlands	0.01	
		Mechanized Clearing in Wetlands	0.30	
R-2915E	Final	Perm. Wetland Fill	0.28	0.46
		Excavation in Wetlands	0.05	
		Mechanized Clearing in Wetlands	0.13	
		Temporary Fill in Wetlands	<i>0.13</i>	
Total				3.05

† Additionally, 0.01 acre of temporary fill in wetlands will occur in the hand clearing areas for erosion control measures

* Values are based on rounding, due to calculating totals with actual numbers to the thousandths

Table 2 – Summary of Stream Impacts for R-2915

Section	Design Stage	Stream Impact Type	Impact Length (lf)	Temporary Impacts (ac)	Stream Impacts Requiring Mitigation (lf)
R-2915A	Final	Permanent Fill	1,119	--	1,119
		Bank Stabilization	402	--	
		Temporary	--	0.05	
R-2915B	Final	Permanent Fill	493	--	493
		Bank Stabilization	431	--	
		Temporary	--	0.15	
R-2915C	Final	Permanent Fill	2,339	--	2,339
		Bank Stabilization	234	--	
		Temporary	--	0.09	
R-2915D	Final	Permanent Fill	2,627	--	2,627
		Bank Stabilization	126	--	
		Temporary	--	0.05	
R-2915E	Final	Permanent Fill	907	--	907
		Bank Stabilization	469	--	
		Temporary	--	0.08	
Total			9,147	0.42	7,485

Tables 3 and 4 summarize the impacts to jurisdictional water resources for the final design of R-2915E. Site numbers correspond with the permit (hydraulic) drawings included in this application. A description of the changes to impact site 8B will follow the tables.

Table 3 – R-2915E Wetland Impacts*

Site	Wetland Number	Wetland Size (ac)	Permanent Fill in Wetlands (ac)	Temporary Fill in Wetlands (ac)	Excavation (ac)	Mechanized Clearing (ac)	Impacts Requiring Mitigation (ac)
1	W96	0.30	--	--	--	<0.01	<0.01
2B	W98	0.07	0.02	--	--	<0.01	0.03
3	W100a	0.39	<0.01	--	--	0.03	0.03
4A	W101**	<0.01	<0.01	--	--	--	<0.01
4B	W102	0.27	<0.01	--	--	0.03	0.03
5	W102	0.27	<0.01	--	--	0.01	0.01
6A	W104	0.17	0.04	--	--	0.02	0.07
8B	W110	0.71	--	0.13	--	--	0
9A	W109**	0.09	0.09	--	--	--	0.09
10	W112	0.46	<0.01	--	--	<0.01	<0.01
13B	W113**	0.01	0.01	--	--	--	0.01
15A	W115	0.03	0.01	--	--	<0.01	0.02
15B	W117	0.22	--	--	--	0.01	0.01
16	W116**	0.03	0.03	--	--	--	0.03
21	W121	0.06	0.03	--	0.01	<0.01	0.04
26A	W123**	0.05	0.01	--	0.04	--	0.05
31	W125**	0.02	0.02	--	--	--	0.02
Total Impacts			0.28	0.13	0.05	0.13	0.46***

* All wetlands impacted are riparian ** Total take of wetland

*** Values are based on rounding, due to calculating totals with actual numbers to the thousandths

Table 4 – R-2915E Stream Impacts

Site	Stream Name & Intermittent (I) or Perennial (P) ¹	Stream Number	Impact Type	Impact Length (linear feet)	Temporary Impacts (acres) (feet)	Mitigation Requirement (linear feet)
1	N/A (wetland)	--	--	--	--	--
2A	UT to Beaver Creek (P)	S128	Perm. Fill	--	--	--
			Bank Stabilization	14	--	--
			Temp Fill	--	<0.01 (17')	--
2B	UT to Beaver Creek (P)	S128	Perm. Fill	57	--	USACE
			Bank Stabilization	--	--	--
			Temp Fill	--	<0.01 (21')	--
3	N/A (wetland)	--	--	--	--	--
4A	N/A (wetland)	--	--	--	--	--
4B	UT to Cole Branch (I)	S132	Perm. Fill	--	--	--
			Bank Stabilization	11	--	--
			Temp Fill	--	<0.01 (10')	--
5	N/A (wetland)	--	--	--	--	--
6A	UT to Cole Branch (P)	S134	Perm. Fill	52	--	USACE
			Bank Stabilization	--	--	--
			Temp Fill	--	<0.01 (10')	--
6B	UT to Cole Branch (P)	S134	Perm. Fill	--	--	--
			Bank Stabilization	27	--	--
			Temp. Fill	--	<0.01 (10')	--
7	Little Buffalo Creek (P)	S135	Perm. Fill	--	--	--
			Bank Stabilization	--	--	--
			Temp. Fill	--	<0.01 (24')	--
8A	Little Buffalo Creek (P)	S135	Perm. Fill	--	--	--
			Bank Stabilization	--	--	--
			Temp Fill	--	<0.01 (32')	--
8B	Little Buffalo Creek (P)	S135	Perm. Fill	--	--	--
			Bank Stabilization	10	--	--
			Temp Fill	--	0.01 (170')	--
9A	UT to Little Buffalo Creek (I)	S136	Perm. Fill	33	--	USACE
			Bank Stabilization	10	--	--
			Temp Fill	--	<0.01 (7')	--
9B	Little Buffalo Creek (P)	S135	Perm. Fill	--	--	--
			Bank Stabilization	--	--	--
			Temp Fill	--	<0.01 (19')	--
10	N/A (wetland)	--	--	--	--	--
11A	Little Buffalo Creek (P)	S135	Perm. Fill	--	--	--
			Bank Stabilization	--	--	--
			Temp Fill	--	<0.01 (22')	--
11B	UT to Little Buffalo Creek (P)	S139	Perm. Fill	--	--	--
			Bank Stabilization	--	--	--
			Temp Fill	--	<0.01 (10')	--

Table 4 Continued – R-2915E Stream Impacts

Site	Stream Name & Intermittent (I) or Perennial (P) ¹	Stream Number	Impact Type	Impact Length (linear feet)	Temporary Impacts (acres) (feet)	Mitigation Requirement (linear feet)
11C	UT to Little Buffalo Creek (P)	S140	Perm. Fill	--	--	--
			Bank Stabilization	--	--	--
			Temp Fill	--	<0.01 (11')	--
11D	Little Buffalo Creek (P)	S135	Perm. Fill	27	--	USACE
			Bank Stabilization	--	--	--
			Temp Fill	--	<0.01 (10')	--
12	Little Buffalo Creek (P)	S135	Perm. Fill	--	--	--
			Bank Stabilization	17	--	--
			Temp Fill	--	<0.01 (10')	--
13A	UT to Little Buffalo Creek (P)	S141	Perm. Fill	31	--	USACE
			Bank Stabilization	11	--	--
			Temp Fill	--	<0.01 (10')	--
13B	UT to Little Buffalo Creek (P)	S141	Perm. Fill	60	--	USACE
			Bank Stabilization	--	--	--
			Temp Fill	--	--	--
13C	UT to Little Buffalo Creek (I)	SA	Perm. Fill	25	--	USACE
			Bank Stabilization	--	--	--
			Temp Fill	--	<0.01 (23')	--
14A	UT to Little Buffalo Creek (P)	S142	Perm. Fill	23	--	USACE
			Bank Stabilization	23	--	--
			Temp Fill	--	<0.01 (10')	--
14B	UT to Little Buffalo Creek (P)	S142	Perm. Fill	63	--	USACE
			Bank Stabilization	--	--	--
			Temp Fill	--	--	--
15A	UT to Little Buffalo Creek (P)	S143	Perm. Fill	31	--	USACE
			Bank Stabilization	15	--	--
			Temp Fill	--	<0.01 (10')	--
15B	UT to Little Buffalo Creek (P)	S143	Perm. Fill	--	--	--
			Bank Stabilization	--	--	--
			Temp Fill	--	<0.01 (23')	--
16	N/A (wetland)	--	--	--	--	--
17A	UT to Little Buffalo Creek (P)	S144	Perm. Fill	115	--	USACE
			Bank Stabilization	--	--	--
			Temp Fill	--	--	--
17B	UT to Little Buffalo Creek (I)	SB	Perm. Fill	146	--	USACE
			Bank Stabilization	--	--	--
			Temp Fill	--	--	--
18	UT to Little Buffalo Creek (P)	S145	Perm. Fill	39	--	USACE
			Bank Stabilization	--	--	--
			Temp Fill	--	<0.01 (12')	--
19	UT to Naked Creek (P)	S147	Perm. Fill	22	--	USACE
			Bank Stabilization	8	--	--
			Temp Fill	--	<0.01 (10')	--

Table 4 Continued – R-2915E Stream Impacts

Site	Stream Name & Intermittent (I) or Perennial (P) ¹	Stream Number	Impact Type	Impact Length (linear feet)	Temporary Impacts (acres) (feet)	Mitigation Requirement (linear feet)
20	UT to Naked Creek (P)	S146	Perm. Fill	--	--	--
			Bank Stabilization	--	--	--
			Temp Fill	--	<0.01 (25')	--
21	N/A (wetland)	--	--	--	--	--
22A	UT to Naked Creek (P)	S148	Perm. Fill	--	--	--
			Bank Stabilization	--	--	--
			Temp Fill	--	<0.01 (22')	--
22B	UT to Naked Creek (P)	S148	Perm. Fill	61	--	USACE
			Bank Stabilization	31	--	--
			Temp Fill	--	<0.01 (10')	--
23	UT to Naked Creek (P)	S155	Perm. Fill	55	--	USACE
			Bank Stabilization	--	--	--
			Temp Fill	--	--	--
24A	UT to Naked Creek (P)	S156	Perm. Fill	30	--	USACE
			Bank Stabilization	--	--	--
			Temp Fill	--	<0.01 (22')	--
24B	UT to Naked Creek (P)	S156	Perm. Fill	--	--	--
			Bank Stabilization	18	--	--
			Temp Fill	--	--	--
24C	Naked Creek (P)	S151	Perm. Fill	--	--	--
			Bank Stabilization	20	--	--
			Temp Fill	--	<0.01 (20')	--
25A	UT to Naked Creek (P)	S157	Perm. Fill	13	--	USACE
			Bank Stabilization	--	--	--
			Temp Fill	--	<0.01 (12')	--
25B	Naked Creek (P)	S151	Perm. Fill	--	--	--
			Bank Stabilization	17	--	--
			Temp Fill	--	<0.01 (20')	--
26A	UT to Naked Creek (P)	S158	Perm. Fill	19	--	USACE
			Bank Stabilization	--	--	--
			Temp Fill	--	<0.01 (8')	--
26B	UT to Naked Creek (P)	S158	Perm. Fill	--	--	--
			Bank Stabilization	8	--	--
			Temp Fill	--	--	--
26C	Naked Creek (P)	S151	Perm. Fill	--	--	--
			Bank Stabilization	32	--	--
			Temp Fill	--	<0.01 (20')	--
27A	UT to Naked Creek (P)	S159	Perm. Fill	--	--	--
			Bank Stabilization	15	--	--
			Temp Fill	--	--	--
27B	Naked Creek (P)	S151	Perm. Fill	--	--	--
			Bank Stabilization	18	--	--
			Temp Fill	--	<0.01 (30')	--
28A	Naked Creek (P)	S151	Perm. Fill	--	--	--
			Bank Stabilization	88	--	--
			Temp Fill	--	<0.01 (10')	--

Table 4 Continued – R-2915E Stream Impacts

Site	Stream Name & Intermittent (I) or Perennial (P) ¹	Stream Number	Impact Type	Impact Length (linear feet)	Temporary Impacts (acres) (feet)	Mitigation Requirement (linear feet)
28B	Naked Creek (P)	S151	Perm. Fill	--	--	--
			Bank Stabilization	59	--	--
			Temp Fill	--	<0.01 (10')	--
29	UT to Naked Creek (P)	S163	Perm. Fill	5	--	USACE
			Bank Stabilization	--	--	--
			Temp Fill	--	<0.01 (15')	--
30	Naked Creek (P)	S151	Perm. Fill	--	--	--
			Bank Stabilization	17	--	--
			Temp Fill	--	<0.01 (21')	--
31	N/A (wetland)	--	--	--	--	--
Total Temporary Impacts:				--	0.08² (726')	--
Total Perm. Impacts (Perm. Fill + Bank Stabilization):				1,376	--	--
Permanent Impacts Requiring DWR Mitigation:				0	--	--
Permanent Impacts Requiring USACE Mitigation:				907	--	--
Total Impacts Requiring Mitigation:				907	--	†

1 – Naked Creek and its UTs are Class C+ waters. All other streams are Class C; Tr+ waters.

2 – Values are based on rounding

† – Final mitigation requirement will be up to the USACE and DWR

Permit Site 8B:

At Station 746 to Station 747, there is an existing slope failure directly beside the north bound lane, on the east side of the road. This issue has been ongoing for several years, and has resulted in several similar slope failures, although the existing slope failure is relatively recent. The issue is believed to be caused by saturated soils and originating from the hillside on the west side of the road.

Following a recent review of this issue, the permitted stormwater system for R-2915E at this location was found to be inadequate. The NCDOT Hydraulics Unit studied the issue and recommended a change in the permitted stormwater plans at Station 748, with the primary change including the addition of a 42” welded steel pipe. Installing this pipe should alleviate the saturated soils and help convey stormwater from the west side of the road to the eastern side and into Little Buffalo Creek.

Closing the road and excavating/trenching in the new 42” stormwater pipe is not an option due to very high traffic volumes (several businesses and Ashe County High School are at this location), and there is no good detour option. In order to excavate/trench the road and install the pipe, NCDOT would need to cut into and slope the hillside on the west side of the road and expand the roadway, which will be done eventually in order to complete the R-2915E project. However, that cannot be done until NCDOT dries that hillside up, which will first require the pipe installation. As a result of these issues, the best course of action is to bore and jack the 42” pipe into place. With limited area to put the bore pit, it will be placed partially within a stream wetland complex on the east side of the road, resulting in temporary impacts to both the stream (Little Buffalo Creek), and part of the adjacent wetland (W110).

Dewatering Little Buffalo Creek to accommodate the bore pit will be accomplished by installing a diversion pipe, which will remain in place until the project is complete (estimated 2-4 weeks). This activity will result in a total of 170 lf (0.01 acre) of temporary stream impacts. The temporary

dewatering pipe will be buried 42" (the diameter of the pipe), and will not be covered, but instead held in place by Class B stone, placed every 10' on top of the pipe. Class I riprap wrapped in geotextile will be used to create a temporary headwall and endwall to stabilize the inlet and outlet of the temporary diversion pipe. This will keep the pipe in place during high flow events and prevent water from running around the pipe. All stream material excavated from where the diversion pipe connects to the stream channel and bore pit will be stockpiled and returned to the stream once the project is completed. All disturbed streambanks will be sloped to 2:1, seeded with native/riparian seed mix and covered with coir fiber. In addition, live stakes of willow and silky dogwood will be planted.

Part of the stream diversion pipe and the bore pit will be installed within a wetland area (wetland W110) adjacent to Little Buffalo Creek resulting in 0.13 acre of temporary wetland impacts. After the bore pit has been removed, NCDOT plans to re-establish wetland habitat in these impacted areas. To allow for this, any wetland soils excavated for the temporary diversion pipe and the bore pit will be stockpiled and returned to the wetland upon completion of the project. All disturbed areas in the wetland will be seeded with native/riparian seed mix, covered with coir fiber, and live stakes of willow and silky dogwood will be planted.

To keep the work area dry (since the bore pit will be located partly within a stream and wetland area), all water entering the bore pit will be pumped into a special stilling basin/silt bag, which will be located downstream of the project on the west bank of the stream. This will keep the silt bag out of the wetland area, and all water treated by the silt bag will be allowed to flow over existing vegetation and into the creek. Once the project is complete, the geotextile and 57 stone base, and silt bag will be discarded, and the area impacted will be seeded with native/riparian seed mix and covered with coir fiber.

Once the dewatering activities have been completed, there will also be 10 lf of streambank stabilization with Class II riprap to Little Buffalo Creek at the outlet of the new 42" pipe to dissipate flow from the pipe and prevent scouring of the streambank.

Previously permitted impacts at this site were <0.01 acre (20 lf) of temporary impacts to stream S135 (Little Buffalo Creek) and <0.01 acre of temporary wetland impacts in wetland W110 due to plugging and filling the nearby 24" CMP.

Total impacts to this site due to this modification are now 0.01 acre (170 lf) of temporary impacts to stream S135 (Little Buffalo Creek) and 0.13 acre of temporary wetland impacts in wetland W110 due to temporary dewatering to accommodate the new bore pit. Additionally, there will now be 10 lf of stream bank stabilization at this site at the outlet of the new stormwater pipe.

MITIGATION

At this time, DMS is providing compensatory mitigation for all impacts. Table 5 summarizes the total mitigation needs as 3.05 acres of wetland impacts and 7,485 linear feet of stream impacts. ***No additional mitigation is required due to the additional temporary stream and wetland impacts and added stream bank stabilization at Site 8B in the E Section (described above) as these activities do not constitute a loss of water.***

Table 5 – Summary of Mitigation Requested from DMS

Section	Design Stage	Wetland Impacts Requiring Mitigation (ac)	Stream Impacts Requiring Mitigation (ac)
R-2915A	Final	0.57	1,119
R-2915B	Final	0.43	493
R-2915C	Final	0.27	2,339
R-2915D	Final	1.32	2,627
R-2915E	Final	0.46	907
Total		3.05	7,485

REGULATORY APPROVALS

Section 404: Application is hereby made for a modification to the USACE Individual 404 Permit as required for the above-described activities.

Section 401: We are hereby requesting a modification to the 401 Water Quality Certification from the N. C. Division of Water Resources for the above-described activities.

A copy of this application and distribution list will also be posted on the NCDOT website at: <http://connect.ncdot.gov/resources/Environmental>. If you have any questions or need additional information, please contact Erin Cheely at ekcheely@ncdot.gov or (919) 707-6108.

Sincerely,



PH
Philip S. Harris III, P.E., C.P.M.
Environmental Analysis Unit Head

ec:
NCDOT Permit Application Standard Distribution List

Project Submittal Interim Form



Updated September 4, 2020

*Please note: fields marked with a red asterisk * below are required. You will not be able to submit the form until all mandatory questions are answered.*

- Project Type:** *
- For the Record Only (Courtesy Copy)
 - New Project
 - Modification/New Project with Existing ID
 - More Information Response
 - Other Agency Comments
 - Pre-Application Submittal
 - Re-Issuance/Renewal Request
 - Stream or Buffer Appeal

Pre-Filing Meeting Information

Before submitting this form please ensure you have submitted the Pre-Filing Meeting Request Form as we will not be able to accept your application without this important first step. The Pre-Filing Meeting Request Form is used in accordance with 40 C.F.R. Section 121.4(a) "At least 30 days prior to submitting a certification request, the project proponent shall request a pre-filing meeting with the certifying agency" and in accordance with 40 C.F.R. Section 121.5(b)(7), and (c)(5) all certification requests shall include documentation that a pre-filing meeting request was submitted to the certifying authority at least 30 days prior to submitting the certification request. Click [here](#) to read more information on when this form is needed prior to application submission or [here](#) to view the form.

Attach documentation of Pre-Filing Meeting Request here: * R-2915 Pre-Filing Form 2021 with emails.pdf 1.17M.

Date for Meeting Request * 9/27/2021

ID# 20140762 **Version** 5

Project Contact Information

Name: Michael Turchy
Who is submitting the information?

Email Address: * maturchy@ncdot.gov

Project Information

Existing ID #: * 20140762
20170001 (no dashes)

Existing Version: * 5
1

Project Name: * R-2915 US 221 Widening from US 421 to US 221 Bus/NC 88 in Jefferson

Is this a public transportation project? *

- Yes
 No

Is this a DOT project? *

- Yes
 No

Is the project located within a NC DCM Area of Environmental Concern (AEC)? *

- Yes No Unknown

TIP#:

R-2915

WBS#:

34518.1.FR6

(Applies to DOT projects only)

County (ies) *

Ashe

Watauga

Please upload all files that need to be submitted.

Click the upload button or drag and drop files here to attach document

R-2915 Modification Ashe-Watauga September 24

2021.pdf

2MB

Only pdf or kmz files are accepted.

Describe the attachments or add comments:

Permit Modification Request Package: Cover letter and drawings.

* By checking the box and signing box below, I certify that:

- I, the project proponent, hereby certifies that all information contained herein is true, accurate, and complete to the best of my knowledge and belief.
- I, the project proponent, hereby requests that the certifying authority review and take action on this CWA 401 certification request within the applicable reasonable period of time.
- I agree that submission of this online form is a "transaction" subject to Chapter 66, Article 40 of the NC General Statutes (the "Uniform Electronic Transactions Act");
- I agree to conduct this transaction by electronic means pursuant to Chapter 66, Article 40 of the NC General Statutes (the "Uniform Electronic Transactions Act");
- I understand that an electronic signature has the same legal effect and can be enforced in the same way as a written signature; AND
- I intend to electronically sign and submit the online form.

Signature: *



Submittal Date:

Is filled in automatically once submitted.



DWR Pre-Filing Meeting Request Form

ID#* 20140762 **Version*** 6
Regional Office* Winston-Salem Regional Office - (336) 776-9800
Reviewer List* Dave Wanucha

Pre-Filing Meeting Request submitted 1/5/2021

Contact Name* Erin Cheely
Contact Email Address* ekcheely@ncdot.gov
Project Name* R-2915
Project Owner* NCDOT
Project County* Ashe
Owner Address:
Street Address 1598 Mail Service Center
Address Line 2
City Raleigh **State / Province / Region** NC
Postal / Zip Code 27699 **Country** United States of America

Is this a transportation project?* Yes No

Type(s) of approval sought from the DWR:
 401 Water Quality Certification - Regular 401 Water Quality Certification - Express
 Individual Permit Modification
 Shoreline Stabilization

Does this project have an existing project ID#?*
 Yes No

Please list all existing project ID's associated with this projects.*
20140762 v1-v5

Do you know the name of the staff member you would like to request a meeting with?
No meeting is requested.

Please give a brief project description below.*
Widening of US 221 from US 421 in Watauga County to US 221 Bus/NC 88 in Jefferson in Ashe County

Please give a couple of dates you are available for a meeting.

Please attach the documentation you would like to have the meeting about.

pdf only

By digitally signing below, I certify that I have read and understood that per the Federal Clean Water Act Section 401 Certification Rule the following statements:

- This form completes the requirement of the Pre-Filing Meeting Request in the Clean Water Act Section 401 Certification Rule.
- I understand by signing this form that I cannot submit my application until 30 calendar days after this pre-filing meeting request.
- I also understand that DWR is not required to respond or grant the meeting request.

Your project's thirty-day clock started upon receipt of this application. You will receive notification regarding meeting location and time if a meeting is necessary. You will receive notification when the thirty-day clock has expired, and you can submit an application.

Signature

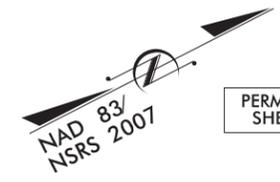


ERIN K. CHEELY

Submittal Date

1/5/2021

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	R-2915E	1	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	
34518.1.FR6	STP-0221(45)	PE	
34518.2.6	STP-0221(45)	R/W	
34518.2.7	STP-0221(45)	UTIL.	
34518.3.8	STP-0221(45)	CONST.	



PERMIT DRAWING
SHEET 1 OF 46

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

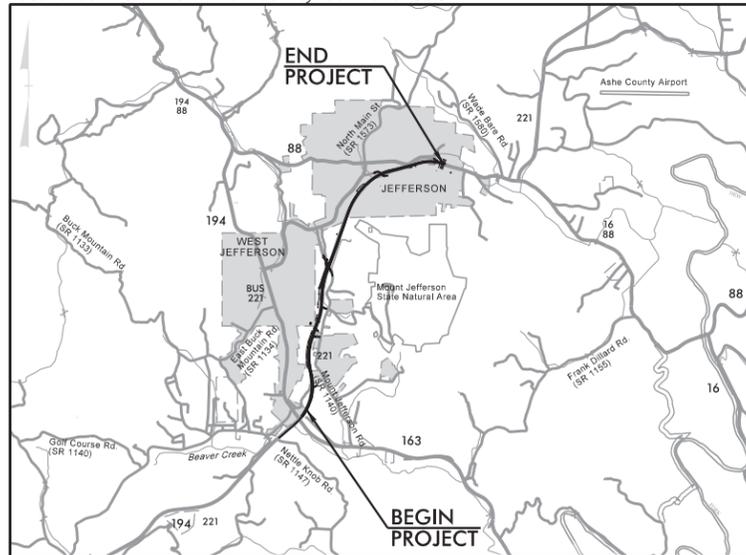
ASHE COUNTY

LOCATION: US 221 FROM US 221 BYPASS TO
US 221 BUSINESS/NC 88 IN JEFFERSON

TYPE OF WORK: GRADING, DRAINAGE, PAVING, WIDENING,
RESURFACING, CULVERTS, AND SIGNALS

WETLAND AND STREAM IMPACTS

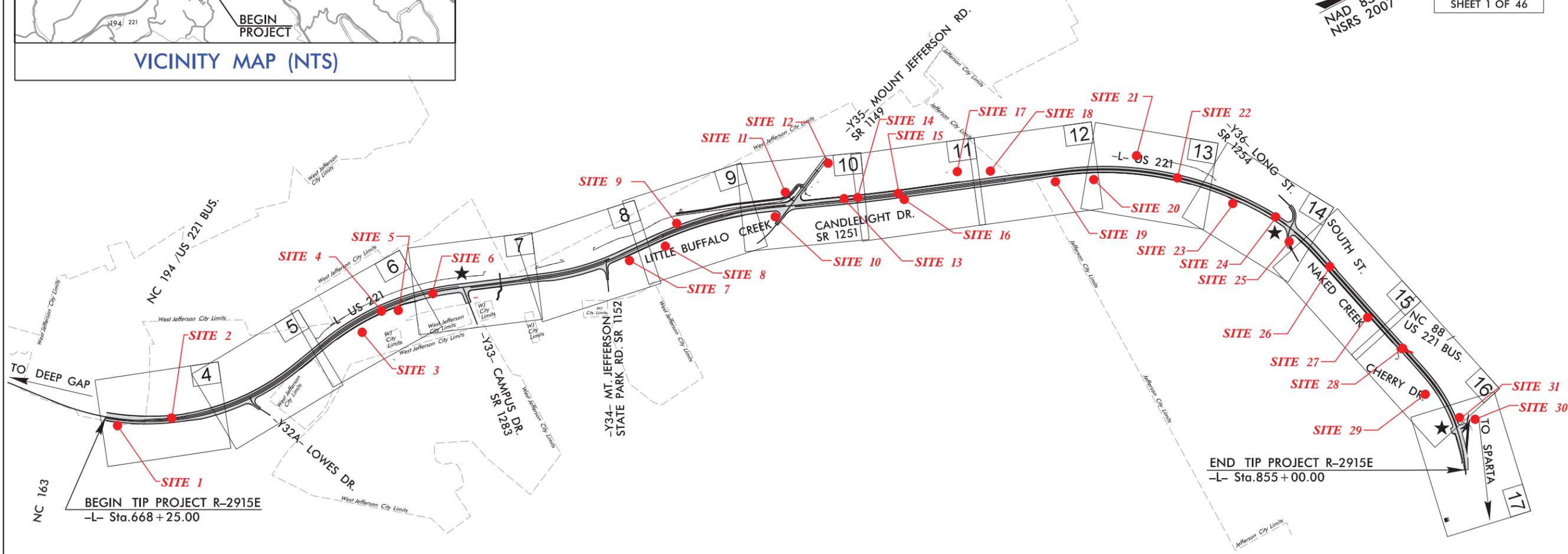
See Sheet 1-A For Index of Sheets, General Notes, and List of Standards
See Sheet 1-B For Conventional Symbols
See Sheet 1C-1-1C-4 For Survey Control Sheets



VICINITY MAP (NTS)

TIP PROJECT: R-2915E

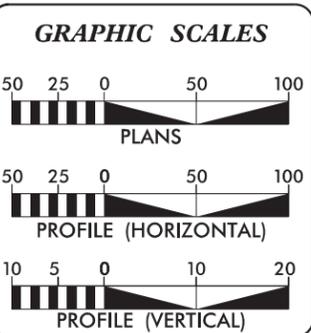
CONTRACT: C204356



THIS IS A PARTIAL CONTROLLED-ACCESS PROJECT WITH ACCESS BEING LIMITED TO POINTS AS SHOWN ON PLANS.

★ PROPOSED TRAFFIC SIGNAL

DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED



DESIGN DATA

ADT 2019 = 15,900
ADT 2039 = 19,400
K = 8%
D = 55%
T = 6%*
V = 60 MPH
FUNC. CLASSIFICATION = RURAL ARTERIAL
* TTST=3% + DUALS=3%

PROJECT LENGTH

LENGTH ROADWAY TIP PROJECT R-2915E.....	3.533 mi
LENGTH CULVERT TIP PROJECT R-2915E.....	0.004 mi
TOTAL LENGTH TIP PROJECT R-2915E.....	3.537 mi

NCDOT CONTACT

Joe Laws, P.E.
PROJECT ENGINEER - DIVISION II

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**

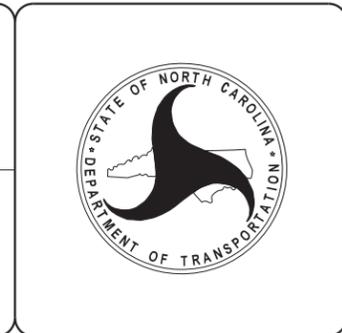
2018 STANDARD SPECIFICATIONS	RIGHT OF WAY DATE: MAY 8, 2018	LETTING DATE: SEPTEMBER 17, 2019
	Scott D. Blevins, P.E. PROJECT ENGINEER RK&K, LLP	Cathy S. Houser, P.E. PROJECT DESIGN ENGINEER RK&K, LLP

HYDRAULICS ENGINEER

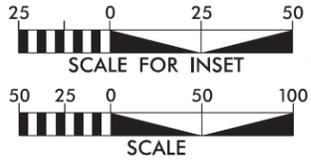
SIGNATURE: _____ P.E.

ROADWAY DESIGN ENGINEER

SIGNATURE: _____ P.E.



8/17/99

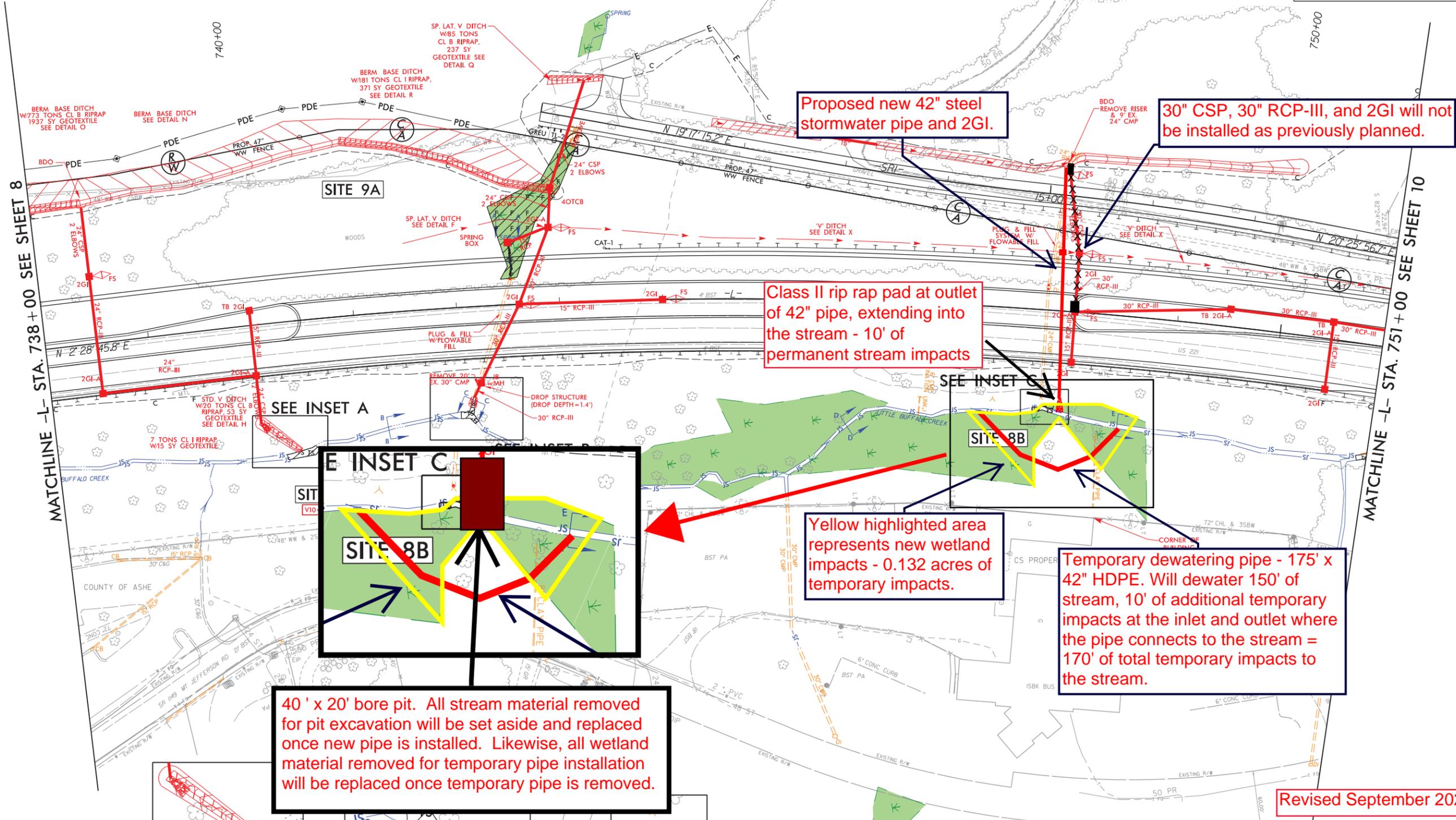


PERMIT DRAWING
SHEET 18 OF 46

- DENOTES FILL IN WETLAND
- DENOTES IMPACTS IN SURFACE WATER
- DENOTES TEMPORARY IMPACTS IN SURFACE WATER
- DENOTES TEMPORARY FILL IN WETLAND

JEMSITE DEVELOPMENT, LLC (40%),
CHARLES R. COPELAND (20%),
JIMMY MILLER (20%),
AND PHIL G. STEVENS (20%)

PROJECT REFERENCE NO. R-2915E	SHEET NO. 9
RW SHEET NO. ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	



Proposed new 42" steel stormwater pipe and 2GI.

30" CSP, 30" RCP-III, and 2GI will not be installed as previously planned.

Class II rip rap pad at outlet of 42" pipe, extending into the stream - 10' of permanent stream impacts

Yellow highlighted area represents new wetland impacts - 0.132 acres of temporary impacts.

Temporary dewatering pipe - 175' x 42" HDPE. Will dewater 150' of stream, 10' of additional temporary impacts at the inlet and outlet where the pipe connects to the stream = 170' of total temporary impacts to the stream.

40' x 20' bore pit. All stream material removed for pit excavation will be set aside and replaced once new pipe is installed. Likewise, all wetland material removed for temporary pipe installation will be replaced once temporary pipe is removed.

Revised September 2021

INSET A

INSET B

INSET C

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 NC License No. F-4112
 Engineers | Construction Managers | Planners | Scientists
 www.rkk.com
 Responsive People | Creative Solutions

FOR DRN. DETAILS SEE SHTS. 2D-1 OR 2D-2
FOR -L- PROFILE SEE SHT. 20
FOR -SR1- PROFILE SEE SHT. 26

3/14/2018 R:\H:\p\bulitics\PERMITS_Environmental\Drawings\4C\R-2915E_Prm_Wet_psh09.dgn

WETLAND AND SURFACE 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)
1	-L- 670+03 to 670+45 RT	DITCH				< 0.01						
2A	-L- 675+33 to 675+66 LT	BANK STABILIZATION						< 0.01	< 0.01	14	17	
2B	-L- 676+43 to 677+27 RT	42" RCP-III	0.02			< 0.01		0.01	< 0.01	57	21	
3	-L- 701+14 to 702+66 RT	DITCH				0.01						
		30" RCP-III	< 0.01			0.02						
4A	-L- 705+04 to 705+37 LT	FILL	< 0.01									
4B	-L- 704+66 to 704+84 RT	30" RCP-III	< 0.01			0.03						
		BANK STABILIZATION						< 0.01	< 0.01	11	10	
5	-L- 706+60 to 707+07 RT	DITCH & EXIST. 18" CMP	< 0.01			0.01						
6A	-L- 711+85 to 713+30 LT	42" RCP-III	0.04			0.02		< 0.01	< 0.01	52	10	
6B	-L- 711+15 to 711+42 RT	BANK STABILIZATION						< 0.01	< 0.01	27	10	
7	-L- 735+40 to 735+61 RT	DITCH							< 0.01		24	
8A	-L- 740+22 to 740+56 RT	DITCH							< 0.01		32	
8B	-L- 747+64 to 747+86 RT	TEMPORARY BORE PIT BANK STABILIZATION		0.13				< 0.01	0.01	10	170	
9A	-L- 742+35 to 743+21 LT	24" CSP, 30" RCP-III	0.09					< 0.01		33		
	-L- 742+06 to 742+11 RT	BANK STABILIZATION-TRIB						< 0.01	< 0.01	10	7	
9B	-L- 741+98 to 742+15 RT	BANK STABILIZATION- LITTLE BUFFALO CREEK							< 0.01		19	
10	-L- 754+26 to 754+54 RT	15" RCP-III	< 0.01			< 0.01					22	
11A									< 0.01		10	
11B									< 0.01		11	
11C	-L- 750+89 to 751+24 RT	Existing 66" CMP						< 0.01	< 0.01	27	10	
11D									< 0.01		10	
12	-Y35- 9+25 to 9+50 LT	BANK STABILIZATION						< 0.01	< 0.01	17	10	
13A	-L- 762+53 to 762+76 LT	30" RCP-III						< 0.01		31		
		BANK STABILIZATION						< 0.01	< 0.01	11	10	
13B	-L- 763+07 to 763+40 RT	30" RCP-III	0.01					< 0.01		60		
13C	-L- 762+53 to 762+38 LT	SPRING BOX						< 0.01	< 0.01	25	23	
14A	-L- 763+31 to 763+73 LT	60" RCP-III						< 0.01	< 0.01	23	10	
		BANK STABILIZATION						< 0.01	< 0.01	63		
14B	-L- 765+28 to 765+72 RT	60" RCP-III						< 0.01		31		
15A	-L- 768+02 to 768+66 LT	36" RCP-III	0.01			< 0.01		< 0.01	< 0.01	15	10	
		BANK STABILIZATION						< 0.01	< 0.01		23	
15B	-L- 770+68 to 770+93 RT	EXIST. 36" CMP				0.01						
16	-L- 769+54 to 770+29 RT	EXIST. 36" CMP	0.03									
17A	-L- 776+79 to 777+26 LT	42" RCP-III						0.01		115		
17B	-L- 775+45 to 776+91 RT	DITCH						< 0.01		146		
18	-L- 780+80 to 781+00 LT	24" RCP-III & DITCH						< 0.01	< 0.01	39	12	
		24" RCP-III						< 0.01		22		
19	-L- 788+03 to 788+42 RT	BANK STABILIZATION						< 0.01	< 0.01	8	10	
20	-L- 793+05 to 793+30 RT	DITCH							< 0.01		25	
21	-L- 797+03 to 799+22 LT	FILL & DITCH	0.03		0.01	< 0.01						
22A	-L- 802+05 to 802+32 RT	EXIST. 48" CMP							< 0.01		22	
22B	-L- 804+49 to 805+11 LT	66" RCP-III						< 0.01		61		
		BANK STABILIZATION						< 0.01	< 0.01	31	10	
23	-L- 810+70 to 811+24 RT	FILL						< 0.01		55		
24A	-L- 815+76 to 815+87 RT	60" RCP-III						< 0.01	< 0.01	30	22	
24B		BANK STABILIZATION- TRIB						< 0.01		18		
24C	-L- 816+22 to 816+61 LT	BANK STABILIZATION- NAKED CREEK						< 0.01	< 0.01	20	20	
25A	-Y36- 16+29 to 16+46 RT	EXIST. 24" CMP						< 0.01	< 0.01	13	12	
25B	-Y36- 16+72 to 17+17 LT	BANK STABILIZATION						< 0.01	< 0.01	17	20	
26A	-L- 823+43 to 826+83 LT	DITCH & 60" RCP-III	0.01		0.04			< 0.01	< 0.01	19	8	
26B		BANK STABILIZATION-TRIB						< 0.01		8		
26C	-L- 826+80 to 827+32 RT	BANK STABILIZATION- NAKED CREEK						< 0.01	< 0.01	32	20	
27A		BANK STABILIZATION-TRIB						< 0.01		15		
27B	-L- 832+48 to 832+87 RT	BANK STABILIZATION- NAKED CREEK						< 0.01	< 0.01	18	30	
28A	-L- 838+81 to 839+70 LT	BANK STABILIZATION						0.01	< 0.01	88	10	
28B	-L- 837+00 to 837+71 RT	BANK STABILIZATION						0.02	< 0.01	59	10	
29	-L- 844+25 to 844+38 RT	42" RCP-IV						< 0.01	< 0.01	5	15	
30	-L- 849+47 to 849+82 LT	BANK STABILIZATION						< 0.01	< 0.01	17	21	
31	-L- 848+81 to 848+99 LT	PLUG/FILL	0.02									
TOTALS*:			0.28	0.13	0.05	0.13		0.14	0.08	1376	726	0

*Rounded totals are sum of actual impacts

NOTES:

1. Temporary Surface Water Impacts are expected during installation of the existing pipes that require a smooth liner

NC DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
REVISED SEPTEMBER 2021
ASHE
R-2915E