

# STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION

ROY COOPER GOVERNOR J. ERIC BOYETTE Secretary

September 17, 2021

Andy Williams US Army Corps of Engineers 3331 Heritage Trade Drive, Suite 105 Wake Forest, NC 27587

Dave Wanucha NC Division of Water Resources Winston Salem Regional Office 450 West Hanes Mill Road Suite 300 Winston Salem, NC 2105

### SUBJECT: Application for Section 404 Regional General Permit and Section 401 Water Quality Certification for Julian Road Widening Project in Rowan County; TIP No. U-5738, WBS: 50136.1.1

Dear Mr. Williams and Mr. Wanucha,

The North Carolina Department of Transportation (NCDOT), in accordance with the Federal Highway Administration (FHWA), proposes to widen Julian Road (SR 2528) in Rowan County, North Carolina.

The purpose of this letter is to request approval for a Section 404 Regional General Permit and Section 401 Water Quality Certification. In addition to this cover letter, the following has been included to assist your review:

- Appendix A Wetland and Stream Impact Maps
- Appendix B Final Natural Resources Technical Report
- Appendix C Preliminary Jurisdictional Determination Package
- Appendix D Cultural Resource Documentation
- Appendix E Final Minimum Criteria Determination Checklist
- Appendix F FEMA Documentation

### **PROJECT DESCRIPTION**

The project will widen SR 2528 (Julian Road, an existing local arterial/minor thoroughfare) between SR 2578 (Klumac Road) / I-85 and U.S. 601 (Jake Alexander Boulevard) from a two-lane ditch section (with approximate ROW width of 60 feet) to a four-lane, divided facility (on 110-ft ROW) with a 23-foot-raised median, curb and gutter, 5-foot striped bike lanes and sidewalks on both sides of the roadway. Existing design speed of 50 mph will be retained with the proposed improvement of the facility to a major collector. A full movement traffic signal is proposed at Julian Rd. / Corporate Circle (South) / W. Ritchie Rd. and a directional median crossover is proposed at Corporate Circle (North) that allows northbound U-turns and southbound lefts onto Corporate Circle. A proposed triangular raised island will also create a yield condition for eastbound Jake Alexander Blvd. to southbound Julian Road right turns, improving safety for traffic exiting Old Julian Road. Also, new, extended or restriped turn lanes at all intersections are proposed to expand storage.

### PURPOSE AND NEED

The purpose of the proposed project is to improve capacity and facilitate safe and efficient multimodal operations by widening the roadway, controlling left turn movements with a median and directional crossovers, and installing striped bike lanes and sidewalks.

### **PROJECT SCHEDULE**

Currently, U-5738 is scheduled to LET in 2022.

### **INDEPENDENT UTILITY**

This project exhibits the following characteristics of independent utility of a project:

- 1) The project connects logical termini and is of sufficient length to address environmental matters on a broad scope.
- 2) The project is usable and a reasonable expenditure, even if no additional transportation improvements are made in the area.
- 3) The project does not restrict consideration of alternatives for other reasonably foreseeable transportation improvements.

### NEPA DOCUMENT STATUS

The proposed project qualifies as a Non-Major Action under the Minimum Criteria rules and a Minimum Criteria Determination Checklist was completed to satisfy the State Environmental Policy Act (SEPA) documentation requirements.

### **RESOURCE STATUS**

Water Quality Classification

The U-5738 project is located entirely in the Yadkin-Pee Dee River basin [U.S. Geological Survey (USGS) Hydrologic Unit 03040103].

There are no designated Outstanding Resource Waters (ORW), High Quality Waters (HQW), or water supply watersheds (WS-I or WS-II) within 1.0 mile downstream of the study area. There are no designated anadromous fish waters or Primary Nursery Areas (PNA) present in the study area. Town Creek appears on the North Carolina 2020 Final 303(d) list of impaired waters for turbidity. The sediment and erosion control plan has been designed to NCDOT Design Standards in Sensitive Watersheds.

### Jurisdictional Determination

Waters of the U.S. identified within the project study area include 975-linear feet of jurisdictional stream and 0.15 acres of jurisdictional wetlands.

Wetland and stream delineations have been completed for the project. The delineation was field verified by both the USACE and DWR. USACE issued a Preliminary Jurisdictional Determination on April 3, 2017, and the DWR issued a determination on March 20, 2017.

## SUMMARY OF IMPACTS

The NCDOT is committed to incorporating all reasonable and practicable design features to avoid and minimize jurisdictional impacts and to provide full compensatory mitigation of all remaining, unavoidable jurisdictional impacts. Avoidance measures were taken throughout the planning and design stages, and minimization measures were incorporated as part of the project design.

Proposed permanent impacts to jurisdictional areas total approximately 0.050 acres of wetland impacts and approximately 1,030 linear feet of stream impacts (424 linear feet of temporary and 606 linear feet of permanent). Tables 1 and 2 summarize the wetland and stream impacts resulting from the proposed project as well as the compensatory mitigation requirements.

NCDOT has obtained compensatory mitigation for 257 linear feet of stream impacts from the N.C. Division of Mitigation Services (DMS) to compensate for unavoidable impacts to jurisdictional Waters of the U.S. resulting from the proposed project.

### IMPACTS TO JURISDICTIONAL RESOURCES

The proposed project was designed to avoid and minimize impacts to Waters of the U.S. in project area to the greatest extent practicable. However, unavoidable impacts will occur from the proposed project. Tables 1 and 2 summarize impacts to jurisdictional wetlands and streams, respectively. Site numbers correspond with the permit (hydraulic) drawings included with this application and the Preliminary Jurisdictional Determination, dated April 3, 2017.

The culvert extension at Julian Branch (SB-Site 1A) was designed to match existing conditions and as such, the culvert will not be buried in this location. Based on findings from the field, there are no sills cast into the existing culvert which is being extended. One barrel (the left barrel, facing downstream) is buried approximately 1-foot with sediment. The channel dimensions at the culvert inlet/outlet do approximate the dimensions of a single barrel, and a floodplain bench is clearly present, particularly on the outlet end. This detail is intended to match existing conditions.

Telephone: (336) 747-7800 Customer Service: 1-877-368-4968 Website: www.ncdot.gov Impacts at sites 2B include temporary dewatering of UT 2 to Town Creek (SA). Due to the close proximity of the stream to the road fill work, this channel will be dewatered during construction. The stream bed will not be disturbed within the temporary impacts as noted on the plans. At site 2C, there will be a temporary impact associated with the utility line crossing. We are planning to bore and jack this crossing; however, we are permitting it as a temporary impact in the event that an open cut is required.

Impacts at other sites are straight forward and have not been individually discussed.

All impacts are located in the Yadkin Pee-Dee River Basin. Stream classification and statuses are listed in Table 2.

Table	Table 1. U-5738 Impacted Jurisdictional Wetlands Impacts									
Site #	Reason	Impact Type	Type of Wetland	Wetland Name	Forested (Y/N)	Type of Jurisdiction	Impacted Area (AC)			
	Roadway									
2B	Fill/Rip Rap	Permanent	Headwater Forest	WB	Y	404/401	0.01			
	Mechanized									
2D	Clearing	Permanent	Headwater Forest	WB	Y	404/401	0.01			
	Roadway									
3	Fill/Rip Rap	Permanent	Headwater Forest	WD	Y	404/401	0.02			
	E&SC									
	Mechanized									
4	Clearing	Permanent	Floodplain Pool	WA	Y	404/401	0.01			

Table 2. U-5738 Impacted Jurisdictional Impacts										
Site #	NRTR Stream ID	Reason	Impact Type	Type of Impact	Stream Type	Type of Jurisdiction	Stream Width (LF)	Impact Length (LF)		
1A	SB	Culvert Extension	Permanent	Culvert	Perennial	404/401	9	80		
1B	SB	Rip Rap	Permanent	Bank Stabilization	Perennial	404/401	9	67		
1B	SB	Rip Rap	Temporary	Bank Stabilization	Perennial	404/401	9	75		
2A	SA	Bank Stabilization	Permanent	Bank Stabilization	Perennial	404/401	3	10		
2B	SA	Dewatering	Temporary	Dewatering	Perennial	404/401	3	318		
2C	SA	Utility Relocation	Temporary	Other	Perennial	404/401	3	36		
2D	SA	Roadway Fill	Permanent	Fill	Perennial	404/401	3	177		
5A	Town Creek	Bank Stabilization	Permanent	Bank Stabilization	Perennial	404/401	18	90		
5A	Town Creek	Bank Stabilization	Temporary	Bank Stabilization	Perennial	404/401	18	78		
5B	Town Creek	Bridge Replacement	Temporary	Other	Perennial	404/401	18	99		

Mailing Address: NC DEPARTMENT OF TRANSPORTATION DIVISION 9 375 SILAS CREEK PARKWAY WINSTON-SALEM, NC 27127 *Telephone:* (336) 747-7800 *Customer Service:* 1-877-368-4968

Website: www.ncdot.gov

Location: HIGHWAY DIVISION 9 375 SILAS CREEK PARKWAY WINSTON-SALEM, NC 27127

### **COMPENSATORY MITIGATION**

Compensatory mitigation for impacts to 257 linear feet of streams is being provided by NC Division of Mitigation Services. Impacts have been requested at a 2:1 ratio. A letter Mitigation Acceptance Letter dated September 15, 2021 is linked in the ePCN.

### FEDERALLY PROTECTED SPECIES

The U.S. Fish and Wildlife Service (USFWS) lists two federally protected species for Rowan County: The Schweinitz's sunflower (*Helianthus schweinitzii*) and the Northern long-eared bat (*Myotis septentrionalis*). Suitable habitat for Schweinitz's sunflower is present in the study area. Therefore, surveys were conducted by SEPI biologists on September 15, 2016, August 12, 2019 and most recently, September 7, 2021. No individuals of Schweinitz's sunflower were observed during any of the surveys. A review of Natural Heritage Program (NHP) records was performed for the project by NHP staff on September 9, 2021. No known occurrences are present within 1.0 mile of the study area. A biological conclusion of No Effect was determined for this species.

In western North Carolina, the Northern long-eared bat (NLEB) spend winter hibernating in caves and mines. Surveys of the existing bridge over Town Creek and the culvert conveying the UT to Town Creek (SB) under Julian Road were performed by NCDOT Division 9 Environmental Officer, Amy Euliss, on September 10, 2021. Surveys followed the SOP outlined in the NCDOT Preliminary Bat Habitat Assessment (Structures Caves & Mines) June 2021. No bats or evidence of bats was identified in the structures.

According to the NHP Biotics Database, most recently updated July 2021, the nearest NLEB hibernacula record is 65 miles west (Burke County) and no known NLEB roost trees occur within 150 feet of the project area.

NCDOT has also reviewed the USFWS Asheville Field office website (http://www.fws.gov/asheville/htmls/project\_review/NLEB\_in\_WNC.html) for consistency with NHP records. This project is located entirely outside of the red highlighted areas (12-digit HUC) that the USFWS Asheville Field Office has determined to be representative of an area that may require consultation.

We believe that Situation 1 of the SLOPES (Standard Local Operating Procedures for Endangered Species Act Compliance for the Northern Long-Eared Bat in North Carolina) agreement applies to this project.

### MORATORIUMS

Construction moratoria are not anticipated for this project. There are no designated anadromous fish spawning areas within Rowan County.

### ESSENTIAL FISH HABITAT (EFH)

The project will not impact any Essential Fish Habitat (EFH) identified by the National Marine Fisheries Service (NMFS), and NMFS has not requested further consultation regarding EFH.

*Telephone:* (336) 747-7800 *Customer Service:* 1-877-368-4968

### **ARCHAEOLOGICAL RESOURCES**

A review of the project was conducted by the Office of State Archaeology (OSA) on June 30, 2016. According to OSA findings, there is low probability for prehistoric and /or historic archaeological materials to be present within the Study Area. No archaeological survey is required for this project. Documentation of the archaeological review is included with this application.

### HISTORIC ARCHITECTURAL RESOURCES

A review of State Historic Preservation (HPO) quad maps, relevant background reports, historic designations roster, and indexes was undertaken on July 12, 2016. Based on this review there are no NR, DE, LL or SL in the Area of Potential Effects (APE). One structure is present in the APE, greater than 50 years of age. The structure is typical of a ranch style house from that time period and is not eligible for the National Register of Historic Places. No survey is required. Documentation of the historic architectural review is included with this application.

### **SECTION 4(f) RESOURCES**

The project did not require a determination under Section 4(f)

### FEMA COMPLIANCE

The project study area is located in a FEMA-designated 100-year floodplain (Panel 5659). As such the project has received a Conditional Letter of Map Revision (CLOMR) and a final Memorandum of Agreement (MOA). Copies of the CLOMR and MOA are included with this application.

### **AVOIDANCE AND MINIMIZATION**

Avoidance and minimization of impacts to protected and valued resources were incorporated throughout the design process. A detailed delineation of wetland and streams was initially performed to ensure the limitations of impacts to natural resources. As a result, proposed disturbance limits were shifted to avoid impacts, where possible.

The initial design proposed an aerial sewer crossing at Town Creek. Ultimately, the Town Creek impacts were minimized by utilizing the existing crossing of Town Creek in the proposed sewer design. Furthermore, in areas around and under Town Creek, all utilities will be installed via directional bore. Wetland impacts have been further minimized by steepening fill slopes and elongating erosion control basins where appropriate.

In addition, implementation of NCDOT's Best Management Practices for the Protection of Surface Waters (BMPs) will minimize impacts to water resources during the preconstruction, construction, maintenance, and repair situations. The existing 3-span bridge over Town Creek will be replaced with a wider 2 span structure to minimize stream impacts. The water line across the main stem of Town Creek is proposed to be constructed using horizontal directional drilling eliminating stream impacts at this location resulting from the utility crossing. As noted previously, the crossing of the SA (UT to Town Creek) is permitted as a temporary impact in the event that a directional bore is not possible. Furthermore, the plans specify that there will be no disturbance to the existing

Telephone: (336) 747-7800 Customer Service: 1-877-368-4968 Website: www.ncdot.gov

Location: HIGHWAY DIVISION 9 375 SILAS CREEK PARKWAY WINSTON-SALEM, NC 27127 streambed outside of the utility location areas in SA (UT to Town Creek) that runs parallel the project.

## INDIRECT AND CUMULATIVE IMPACTS

Existing rules for the Water Quality Certification Program (15A NCAC 2H .0506(b)(4) require that DWR determine that a project "does not result in cumulative impacts based on past or reasonably anticipated future impacts that cause or will cause a violation of downstream impacts, that cause or will cause a violation of downstream water quality standards".

The purpose of the proposed project is to improve capacity and facilitate safe and efficient multimodal operations by widening the roadway. No additional development is anticipated as a result of this project.

The project is not expected to have a notable indirect effect to land use or development patterns in the area. In addition, because few indirect impacts are anticipated, the cumulative effect of this project, when considered in context with other past, present and future actions and the resulting impact on notable human and natural features, should also be minimal.

The project will address increases in impervious surfaces and associated stormwater runoff in the individual project design through the use of stormwater management control devices (SCMs).

If you have any questions or need additional information, please contact Amy Euliss at aeuliss@ncdot.gov or (336)747-7800.

Sincerely,

Amy Culiss

Amy Euliss Division 9 PDEA Engineer

ROY COOPER Governor ELIZABETH S. BISER Secretary TIM BAUMGARTNER Director



September 15, 2021

Ms. Amy Euliss NCDOT Division 9 PDEA Engineer North Carolina Department of Transportation 375 Silas Creek Parkway Winston-Salem, North Carolina 27127

Dear Ms. Euliss:

Subject: Mitigation Acceptance Letter:

Division 9 Project TIP U-5738, Widening SR 2528 (Julian Road), Rowan County; WBS Element 50163.1.1

The purpose of this letter is to notify you that the North Carolina Department of Environmental Quality – Division of Mitigation Services (NCDEQ-DMS) will provide the compensatory stream mitigation for the subject project. Based on the information received from you on September 15, 2021, the impacts are located in CU 03040103 of the Yadkin River basin in the Central Piedmont (CP) Eco-Region, and are as follows:

Yadkin	Stream				Wetlands	Buffer (Sq. Ft.)		
03040103 CP	Cold	Cool	Warm	Riparian	Non- Riparian	Coastal Marsh	Zone 1	Zone 2
Impacts (feet/acres)	0	0	257.0	0	0	0	0	0

DMS commits to implementing sufficient compensatory stream mitigation credits to offset the impacts associated with this project as determined by the regulatory agencies in accordance with the In-Lieu Fee Instrument dated July 28, 2010. If the above referenced impact amounts are revised, then this mitigation acceptance letter will no longer be valid and a new mitigation acceptance letter will be required from NCDEQ-DMS.

If you have any questions or need additional information, please contact Ms. Beth Harmon at 919-707-8420.

Sincerely,

Elizabeth Harmon

James B. Stanfill DMS Asset Management Supervisor

 cc: Mr. Andrew Williams, USACE – Raleigh Regional Office Ms. Amy Chapman, NCDWR – Raleigh Ms. Linda Fitzpatrick, NCDOT – EAU File: U-5738 – Division 9





### **Pre-Construction Notification (PCN) Form**

For Nationwide Permits and Regional General Permits

(along with corresponding Water Quality Certifications)

June 1, 2021 Ver 4.1

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.

Also, if at any point you wish to print a copy of the E-PCN, all you need to do is right-click on the document and you can print a copy of the form.

Below is a link to the online help file.

https://edocs.deq.nc.gov/WaterResources/0/edoc/624704/PCN%20Help%20File%202018-1-30.pdf

### A. Processing Information

#### County (or Counties) where the project is located:\*

Rowan

#### Is this a NCDMS Project\*

○ Yes ⊙ No Click Yes, only if NCDMS is the applicant or co-applicant.

#### Is this project a public transportation project?\*

⊙ Yes ○ No This is any publicly funded by municipal,state or federal funds road, rail, airport transportation project.

#### Is this a NCDOT Project?\*

• Yes O No

(NCDOT only) T.I.P. or state project number: TIP U-5738

#### WBS #\*

50163.3.1 (for NCDOT use only)

#### 1a. Type(s) of approval sought from the Corps:\*

Section 404 Permit (wetlands, streams and waters, Clean Water Act)
 Section 10 Permit (navigable waters, tidal waters, Rivers and Harbors Act)

#### Has this PCN previously been submitted?\*

OYes ⊙No

### 1b. What type(s) of permit(s) do you wish to seek authorization?\*

Nationwide Permit (NWP)

- Regional General Permit (RGP)
- Standard (IP)

1c. Has the NWP or GP number been verified by the Corps?\*

○ Yes ⊙ No

Regional General Permit (RGP) Number:

201902350 - Work associated with bridge construction, widening, replacement, and interchanges

RGP Numbers (for multiple RGPS): List all RGP numbers you are applying for not on the drop down list.

# 1d. Type(s) of approval sought from the DWR:\* check all that apply

✓ 401 Water Quality Certification - Regular

Non-404 Jurisdictional General Permit

Individual 401 Water Quality Certification

### **Pre-Filing Meeting Information**

401 Water Quality Certification - Express
 Riparian Buffer Authorization

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

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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.

Is this a courtesy copy notification?*	
ID#	Version
Pre-fling Meeting or Request Date * 11/25/2020	
Attach documentation of Pre-Filing Meeting Click the upload button or drag and drop files here to attach do	Request here: *
DWR Pre-Filing Meeting Request Form.pdf File type must be PDF	50.32KB
1e. Is this notification solely for the record b	ecause written approval is not required?
	*
For the record only for DWR 401 Certification	C Yes © No
For the record only for Corps Permit:	C Yes © No
1f. Is this an after-the-fact permit application	?*
C Yes	© No
1g. Is payment into a mitigation bank or in-lie If so, attach the acceptance letter from mitigation bank or in-lieu	u fee program proposed for mitigation of impacts?
• Yes	C No
Acceptance Letter Attachment Click the upload button or drag and drop files here to attach do Accept_U-5738_Div 9.pdf FLETYFEMJST BEFDF	sument 396.84KB
1h. Is the project located in any of NC's twen	ty coastal counties?*
C Yes	€ No
1j. Is the project located in a designated trou C Yes ⓒ No	it watershed?*
Link to trout information: http://www.saw.usace.arr	ny.mil/Missions/Regulatory-Permit-Program/Agency-Coordination/Trout.aspx
B. Applicant Information	<u>`</u>

**1a. Who is the Primary Contact?**\* Amy Euliss

**1b. Primary Contact Email:**\* aeuliss@ncdot.gov

1c. Primary Contact Phone:\*

(336)747-7800

Applicant (other than owner)

 1e. Is there an Agent/Consultant for this project?\*

 © Yes C No

### 2. Owner Information

2a. Name(s) on recorded deed:\* NCDOT

2b. Deed book and page no.:

2c. Contact Person:

(for Corporations)

2d. Address\*

Street Address	
375 Silas Creek Parkway	
Address Line 2	
<b>City</b>	State / Province / Region
Winston Salem	NC
Postal / Zip Code	Country
27127	USA
2e. Telephone Number:*	
(xxx)xxx-xxxx	
(336)747-7800	
2f. Fax Number:	
(XXXX) XXXX-XXXXX (XXXX)	
2n Email Address:*	
agulias@padat.cov	
aeunss@ricdot.gov	
4. Agent/Consultant (if applicable)	
4a. Name:*	
Bob Lepsic	
4b. Business Name:	
(if applicable)	
SEPLInc.	
4c. Address	
Street Address	
Address Line 2	
Autos Lilez	
City	State / Province / Banion
Raleigh	NC
Detal / Zin Code	
27603	
21000	
4d. Telephone Number:*	
(919)747-5857	4e. Fax Number:
(xxx)xxx-xxxx	(xxx)xxx-xxxx
4f. Email Address:*	
blepsic@sepiinc.com	

0	Designet	Information	and Drian	Destat	Llistem
<b>U</b> .	Project	Information	and Prior	Project	HISTORY

1. Project Information	
------------------------	--

**1a. Name of project:**\* U-5738

1b. Subdivision name:

(if appropriate)

1c. Nearest municipality / town:\*

Salisbury

Postal / Zip Code

2. Project Identification		$\bigcirc$
	2b. Property size:	
2a. Property Identification Number:	(in acres)	
(tax PIN or parcel ID)	34.9	
2c. Project Address		
Street Address		
Julian Road		
Address Line 2		
Oty	State / Province / Region	
Salisbury	NC	

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2d. Site coordinates in decimal degrees

Please collect site coordinates in decimal degrees. Use between 4-6 digits (unless you are using a survey-grade GPS device) after the decimal place as appropriate, based on how the location was determined. (For example, most mobile phones with GPS provide locational precision in decimal degrees to map coordinates to 5 or 6 digits after the decimal place.)

Country

Latitude:\*

35.6421 ex: 34.20850 Longitude:\*

-77.79637

#### 3. Surface Waters

3a. Name of the nearest body of water to proposed project:\* Town Creek

3b. Water Resources Classification of nearest receiving water:\*

С

Surface Water Lookup

3c. What river basin(s) is your project located in?\*

Yadkin-PeeDee

030401030301

3d. Please provide the 12-digit HUC in which the project is located.\*

River Basin Lookup

#### 4. Project Description and History

#### 4a. Describe the existing conditions on the site and the general land use in the vicinity of the project at the time of this application:\*

Land use at the site includes Julian Road and the maintained right-of-way areas. Land use in the project vicinity consists primarily of commercial development along roadways, forestland along stream corridors, interspersed with vacant land.

#### 4b. Have Corps permits or DWR certifications been obtained for this project (including all prior phases) in the past?\*

○ Yes ⊙ No ○ Unknown

4f. List the total estimated acreage of all existing wetlands on the property:

0.15

#### 4g. List the total estimated linear feet of all existing streams on the property:

(intermittent and perennial) 975

#### 4h. Explain the purpose of the proposed project:\*

The purpose of the proposed project is to improve capacity and facilitate safe and efficient multilmodal operations by widening the roadway, controlling left turn movements with a median and directional crossovers, and installing striped bike lanes and sidewalks.

#### 4i. Describe the overall project in detail, including indirect impacts and the type of equipment to be used: \*

The project will widen SR 2528 (Julian Road, an existing local arterial/minor thoroughfare) between SR 2578 (Klumac Road) / L85 and U.S. 601 (Jake Alexander Boulevard) from a twolane ditch section (with approximate ROW width of 60-feet) to a four-lane, divided facility (on 110-ft ROW) with a 23-foot raised median, curb and gutter, 5-foot striped bike lanes and sidewalks on both sides of the roadway. Existing design speed of 50 mph will be retained with the proposed improvement of the facility to a major collector. A full movement traffic signal is proposed at Julian Rd / Corporate Circle (South) / W. Ritchie Rd. and a directional median crossover is proposed at Corporate Circle (North) that allows northbound Ulturns and southbound lefts onto Corporate Circle. A proposed triangular raised island will also create a yield condition for eastbound Jake Alexander Blvd. to southbound Julian Road. Also, new, extended or restriped turn lanes at all intersections are proposed to expand storage.

In addition, the project includes addition of a sidewalk on the west side of Julian Road between Klumac Road/I-85 and SR 2667 (Summit Park Drive). The portion of the project corridor proposed to be widened (with median, sidewalks and bike lanes) extends from U.S. 601 (Jake Alexander Boulevard) to SR 2578 (Klumac Rd & I-85) and is approximately 4,700 feet in length. The portion of the project corridor proposed for sidewalk improvements only, extends from SR 2578 (Klumac Rd & I-85) to SR 2667 (Summit Park Drive), and is approximately 2,000 feet in length.

We do not anticipate indirect impacts since the project is widening of a new road, and no new access will be granted as a result of the widening project. Standard road building equipment will be used.

#### 5. Jurisdictional Determinations

5a. Have the wetlands or streams been delineated on the property or proposed impact areas?\*

O No

• Yes

Comments:

ite:

5b. If the Corps made a jurisdictional determination, what type of determination was made?\*

#### Corps AID Number:

Example: SAW-2017-99999 SAW-2016-01370

#### 5c. If 5a is yes, who delineated the jurisdictional areas?

 Name (if known):
 Eric Black, PWS

 Agency/Consultant Company:
 SEPI Inc

O Unknown

#### Other:

5d. List the dates of the Corp jurisdiction determination or State determination if a determination was made by the Corps or DWR. SAW-2016-01370 April 3, 2017

DWR March 20, 2017

### 6. Future Project Plans

#### 6a. Is this a phased project?\*

C Yes

Are any other NWP(s), regional general permit(s), or individual permits(s) used, or intended to be used, to authorize any part of the proposed project or related activity? This includes other separate and distant crossing for linear projects that require Department of the Army authorization but don't require pre-construction notification.

### **D. Proposed Impacts Inventory**

#### 1. Impacts Summary

1a. Where are the impacts associated with	your project? (check all that apply):
---	---------------------------------------

 Wetlands
 Streams-tributaries

 Open Waters
 Pond Construction

No

Buffers

#### 2. Wetland Impacts

If there are wetland impacts proposed on the site, then complete this question for each wetland area impacted.

"W." will be used in the table below to represent the word "wetland".

2a. Site #* (?)	2a1 Reason * (?)	2b. Impact type * (?)	2c. Type of W. <sup>*</sup>	2d. W. name *	2e. Forested *	2f. Type of Jurisdicition * (?)	2g. Impact area <sup>*</sup>
2В	Dewatering Operation	Р	Headwater Forest	WB	Yes	Both	0.010 (acres)
2D	Roadway Fill	Р	Headwater Forest	WB	Yes	Both	0.010 (acres)
3	Roadway Fill	Р	Headwater Forest	WD	Yes	Both	0.020 (acres)
4	E&SC Measures	Р	Floodplain Pool	WA	Yes	Both	0.010 (acres)

### 2g. Total Temporary Wetland Impact

0.000

#### 2g. Total Permanent Wetland Impact

0.050

#### 2g. Total Wetland Impact

0.050

#### 2i. Comments:

Impact amounts differ from amount shown on permit plans due to rounding.

#### 3. Stream Impacts

If there are perennial or intermittent stream impacts (including temporary impacts) proposed on the site, then complete this question for all stream sites impacted.

"S." will be used in the table below to represent the word "stream".

	3a. Reason for impact * (?)	3b.Impact type *	3c. Type of impact <sup>*</sup>	3d. S. name *	<b>3e. Stream Type *</b> (?)	3f. Type of Jurisdiction <sup>*</sup>	3g. S. width *	3h. Impact length <sup>*</sup>
S1	(Site 1A) Culvert Extension	Permanent	Culvert	Julian Branch (SB)	Perennial	Both	9 Average (feet)	80 (linear feet)
S2	(Site 1B) Rip rap	Permanent	Bank Stabilization	Julian Branch (SB)	Perennial	Both	9 Average (feet)	67 (linear feet)
S3	(Site 1B) Rip rap	Temporary	Bank Stabilization	Julian Branch (SB)	Perennial	Both	9 Average (feet)	75 (linear feet)
S4	(Site 2A) Bank Stabilization	Permanent	Bank Stabilization	UT to Town Creek (SA)	Perennial	Both	3 Average (feet)	10 (linear feet)
S5	(Site 2B) Dewatering Operation	Temporary	Dewatering	UT to Town Creek (SA)	Perennial	Both	3 Average (feet)	318 (linear feet)
S6	(Site 2C) Utility Relocation	Temporary	Other	UT to Town Creek (SA)	Perennial	Both	3 Average (feet)	36 (linear feet)

 $\bigcirc$ 

S7	(Site 2D) Roadway Fill	Permanent	Fill	UT to Town Creek (SA)	Perennial	Both	3 Average (feet)	177 (linear feet)
S8	(Site 5A) Bank Stabilization	Permanent	Bank Stabilization	Town Creek	Perennial	Both	18 Average (feet)	90 (linear feet)
S9	(Site 5A) Bank Stabilization	Temporary	Bank Stabilization	Town Creek	Perennial	Both	18 Average (feet)	78 (linear feet)
S10	(Site 5B) Bridge Replacement	Temporary	Other	Town Creek	Perennial	Both	18 Average (feet)	99 (linear feet)

\*\* All Perennial or Intermittent streams must be verified by DWR or delegated local government.

#### 3i. Total jurisdictional ditch impact in square feet:

0

#### 3i. Total permanent stream impacts:

424

#### 3i. Total temporary stream impacts:

606

#### 3i. Total stream and ditch impacts:

1030

#### 3j. Comments:

Impact amounts differ from amount shown on permit plans due to rounding.

#### E. Impact Justification and Mitigation

#### 1. Avoidance and Minimization

#### 1a. Specifically describe measures taken to avoid or minimize the proposed impacts in designing the project:\*

Avoidance and minimization of impacts to protected and valued resources were incorporated throughout the design process. A detailed delineation of wetland and streams was initially performed to ensure the limitations of impacts to natural resources. As a result, proposed disturbance limits were shifted to avoid impacts, where possible.

The initial design proposed an aerial sewer crossing at Town Creek. Ultimately, the Town Creek impacts were minimized by utilizing the existing crossing of Town Creek in the proposed sewer design. Furthermore, in areas around and under Town Creek, all utilities will be installed via directional bore. Wetland impacts have been further minimized by steepening fill slopes and elongating erosion control basins where appropriate. The project erosion control plan has also been designed in accordance with Design Standards in Sensitive Watersheds.

#### 1b. Specifically describe measures taken to avoid or minimize the proposed impacts through construction techniques:\*

In addition, implementation of NCDOT's Best Management Practices for the Protection of Surface Waters (BMPs) will minimize impacts to water resources during the preconstruction, construction, maintenance, and repair situations. The existing 3-span bridge over Town Creek will be replaced with a wider 2 span structure to minimize stream impacts. The water line across the main stem of Town Creek is proposed to be constructed using horizontal directional drilling eliminating stream impacts at this location resulting from the utility crossing. As noted previously, the crossing of the SA (UT to Town Creek) is permitted as a temporary impact in the event that a directional bore is not possible. Furthermore, the plans specify that there will be no disturbance to the existing streambed outside of the utility location areas in SA (UT to Town Creek) that runs parallel the project.

#### 2. Compensatory Mitigation for Impacts to Waters of the U.S. or Waters of the State

#### 2a. Does the project require Compensatory Mitigation for impacts to Waters of the U.S. or Waters of the State?

© Yes O No

#### 2c. If yes, mitigation is required by (check all that apply):

DWR	Corps
2d. If yes, which mitigation o	ption(s) will be used for this project?

#### in yes, which mitigation option(s) will be used for this project

☐ Mitigation bank 🔽 Payment to in-lieu fee ☐ Permittee Responsible program Mitigation

#### 4. Complete if Making a Payment to In-lieu Fee Program

4d. Buffer mitigation requested (DWR only):	4e. Riparian wetland mitigation requested:
NC Stream Temperature Classification Maps can be found under the Mitigation Concepts tab of	on the Wilmington District's RIBITS website.
514 (257' at a 2:1 ratio)	warm
(linear feet)	4c. If using stream mitigation, what is the stream temperature:
4b. Stream mitigation requested:	
⊙ Yes ⊂ No	
4a. Approval letter from in-lieu fee program is attached.	

(square feet)

4f. Non-riparian wetland mitigation requested:

(acres)

4g. Coastal (tidal) wetland mitigation requested:

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(acres)

(acres)

### F. Stormwater Management and Diffuse Flow Plan (required by DWR)

\*\*\* Recent changes to the stormwater rules have required updates to this section .\*\*\*

#### 1. Diffuse Flow Plan

1a. Does the project include or is it adjacent to protected riparian buffers identified within one of the NC Riparian Buffer Protection Rules?

© Yes © No

For a list of options to meet the diffuse flow requirements, click here.

#### If no, explain why:

Project does not occur in a NC buffered basin.

#### 2. Stormwater Management Plan

2a. Is this a NCDOT project subject to compliance with NCDOT's Individual NPDES permit NCS000250?\*

• Yes • No

#### Comments:

See attached permit drawings and stormwater management plan.

Roadway runoff will be conveyed by curb & gutter and discharged into vegetated or riprap lined ditches prior to entering Julian Branch or Town Creek. The portion of the project from -L- STA 13+05 to STA 52+04 drains to Julian Branch and the portion from -L- STA 52+04 to 79+23 drains to Town Creek.

### G. Supplementary Information

#### 1. Environmental Documentation

1a. Does the project involve an expenditure	› of public (federal/state/local) funds or the use of public (federal/state) land? *
• Yes	○ No
1b. If you answered "yes" to the above, doe Environmental Policy Act (NEPA/SEPA)?*	s the project require preparation of an environmental document pursuant to the requirements of the National or State (North Carolina)
• Yes	C No
1c. If you answered "yes" to the above, has	the document review been finalized by the State Clearing House? (If so, attach a copy of the NEPA or SEPA final approval letter.) *
• Yes	C No

### 2. Violations (DWR Requirement)

2a. Is the site in violation of DWR Water Quality Certification Rules (15A NCAC 2H .0500), Isolated Wetland Rules (15A NCAC 2H .1300), or DWR Surface Water or Wetland Standards or Riparian Buffer Rules (15A NCAC 2B .0200)?\*

3. Cumulative Impacts (DWR Requirement)

3a. Will this project (based on past and reasonably anticipated future impacts) result in additional development, which could impact nearby downstream water quality?\*

3b. If you answered "no," provide a short narrative description.

The purpose of the proposed project is to improve capacity and facilitate safe and efficient multilmodal operations by widening the roadway. No additional development is anticipated as a result of this project.

#### Sewage Disposal (DWR Requirement)

#### 4a. Is sewage disposal required by DWR for this project?\*

○ Yes ⊙ No ○ N/A

#### 5. Endangered Species and Designated Critical Habitat (Corps Requirement)

```
5a. Will this project occur in or near an area with federally protected species or habitat?*
Yes
No
5b. Have you checked with the USFWS concerning Endangered Species Act impacts?*
Yes
No
5d. Is another Federal agency involved?*
```

 $(\land)$ 

5e. Is this a DOT project located within Division's 1-8?\*

O Yes ⊙ No

5f. Will you cut any trees in order to conduct the work in waters of the U.S.?\*

• Yes • No

#### 5g. Does this project involve bridge maintenance or removal?\*

• Yes • No

5g(1). If yes, have you inspected the bridge for signs of bat use such as staining, guano, bats, etc.? Representative photos of signs of bat use can be found in the NLEB SLOPES, Appendix F, pages 3-7.

• Yes • No

Link to the NLEB SLOPES document: http://saw-reg.usace.amy.mil/NLEB/1-30-17-signed\_NLEB-SLOPES&apps.pdf

#### If you answered "Yes" to 5g(1), did you discover any signs of bat use?\*

○ Yes ⊙ No ○ Unknown

\*\*\* If yes, please show the location of the bridge on the permit drawings/project plans.

#### 5h. Does this project involve the construction/installation of a wind turbine(s)?\*\*

○ Yes ⊙ No

5i. Does this project involve (1) blasting, and/or (2) other percussive activities that will be conducted by machines, such as jackhammers, mechanized pile drivers, etc.?\*

#### 5j. What data sources did you use to determine whether your site would impact Endangered Species or Designated Critical Habitat?\*

U.S. Fish and Wildlife Information Planning and Consultation tool, Natural Heritage Program database, on-site habitat and species surveys.

### 6. Essential Fish Habitat (Corps Requirement)

#### 6a. Will this project occur in or near an area designated as an Essential Fish Habitat?\*

C Yes

6b. What data sources did you use to determine whether your site would impact an Essential Fish Habitat?\*

https://www.fisheries.noaa.gov/resource/map/essential-fish-habitat-mapper

### 7. Historic or Prehistoric Cultural Resources (Corps Requirement)

No
 No

Link to the State Historic Preservation Office Historic Properties Map (does not include archaeological data: http://gis.ncdcr.gov/hpoweb/

# 7a. Will this project occur in or near an area that the state, federal or tribal governments have designated as having historic or cultural preservation status (e.g., National Historic Trust designation or properties significant in North Carolina history and archaeology)?\*

C Yes 
© No

#### 7b. What data sources did you use to determine whether your site would impact historic or archeological resources?\*

The project was reviewed by NCDOT Cultural Resource staff. No survey required forms for both Archeology and Historic Architecture are attached to the ePCN. Additionally, the Catawba Indian Nation was consulted for impact to tribal resources. In a letter dated, May 18, 2020, they stated that they had no immediate concerns with the project. The tribal coordination are attached to the ePCN.

#### 8. Flood Zone Designation (Corps Requirement)

Link to the FEMA Floodplain Maps: https://msc.fema.gov/portal/search

#### 8a. Will this project occur in a FEMA-designated 100-year floodplain?\*

O No

• Yes

#### 8b. If yes, explain how project meets FEMA requirements:

The project has received a Conditional Letter of Map Revision (CLOMR) and a final Memorandum of Agreement (MOA). Copies of the CLOMR and MOA are attached.

#### 8c. What source(s) did you use to make the floodplain determination?\*

Federal Emergency Management Agency (FEMA) Floodmaps Panel 5659 (https://flood.nc.gov/ncflood/mappingprogram.html)

### Miscellaneous

#### Comments

Please use the space below to attach all required documentation or any additional information you feel is helpful for application review. Documents should be combined into one file when possible, with a Cover Letter, Table of Contents, and a Cover Sheet for each Section preferred.

 $(\land)$ 

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

Cultural Resource documentation for ePCN.pdf	7.48MB
FINAL U-5738 Julian Rd Widening NRTR_202109.pdf	17.31MB
U5738 DWR JS.pdf	1.28MB
U5738 signed PJD.pdf	908.03KB
U-5738 Cover Lettter_FINAL COMBINED_R.pdf	13.78MB
U-5738_PermitPlans.pdf	8.14MB
File must be PDF or KMZ	

### Signature

\*

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

- The project proponent hereby certifies that all information contained herein is true, accurate, and complete to the best of my knowledge and belief'; and
- 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 have given true, accurate, and complete information on this form;
- I agree that submission of this PCN 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 PCN form.

#### Full Name:\*

Amy Euliss

#### Signature \*

Amy Euliss

Date 9/20/2021

(Version 2.07; Released	October 2016)			North Ca H STOI	rolina Departm ighway Stormv RMWATER MAI FOR NCDOT	ent of Transportatio vater Program NAGEMENT PLAN PROJECTS	on					
WBS Element:	50163.1.1	TIP No.:	U-5738		County(ies):	Rowan				Page	1	of 2
				G	Seneral Project	Information						
WBS Element:		50163 1 1		TIP Number:	U-5738		Project	Type:	Roadway Widening		Date:	Sept 2021
NCDOT Contact:		Matt W Jones P	F	in Rumber.	0 0100	Contractor / Desig	iner:	Greg Brick	nam PF		Duto.	00012021
	Address:	Highway Division	– 19				Address:	KCI Associ	ates of NC			
		375 Silas Creek	Parkway					4505 Falls	of Neuse Rd. Suite 40	0		
		Winston Salem	NC 27127					Raleigh N	C 27609			
	Phone:	(336) 747-7800				-	Phone:	(919) 278-2	2509			
	Email:	mwiones2@ncd	ot dov			-	Email:	areaory bri	ckham@kci.com			
City/Town:	Entan		Salis	sburv		County(ies):	Row	van				
River Basin(s):		Yadkin-	Pee Dee			CAMA County?	N	0				
Wetlands within Pro	Vetlands within Project Limits? Yes							•				
	,				Project Des	cription						
Project Length (lin.	miles or feet):	1.258	Miles	Surrounding	Land Use:	Urban						
			Proposed Proje	ct				Existing S	Site			
Project Built-Upon Area (ac.)		15.8 ac.						11.7	ac.			
Typical Cross Section Description:		(4) - 12' travel la	nes with 23' media	sidewalk at culv	vert.	(2) - 12' trave	I lanes with	5' paved shoulders at	culvert.			
		(4) - 12' travel la	<ul> <li>+) - 12' travel lanes with 5.5' median, 5' bike lanes &amp; sidewalk at bridge.</li> </ul>					(2) - 11' travel lanes with 3' paved shoulders at bridge.				
Annual Avg Daily Tr	affic (veh/hr/day):	Design/Futur	e: 2	6800 Year: 2040 Existing: 24000						Yea	ar: 2020	
General Project Nar (Description of Mini Quality Impacts)	rative: mization of Water	The proposed pro- begins at the inter- Julian Branch and road widening ame are no proposed I There are wetland AC. of mechanize permanent impac will result in 147 L result in 90 LF of horizontal directio 0.02 AC.mechani LF of temporary of Stormwater contr of the project fror turbidity, therefor designed to the 2	yect will widen a pr rsection of Julian F d Town Creek. Tow d proposed fill slop bents in the water ds within the propo- dd clearing in wetla ts and 354 LF of te F of permanent and 17 nal drilling, therefor zed clearing in wet thannel impacts. R ols: Roadway runo n L- STA 13+05 to e Environmentally 5-yr storm event to	ortion of Julian Koa Road and Klumac R vn Creek is listed or es. The existing 3- and no deck drains sed project limits. F nds. Wetland impa- emporary impacts the annel impacts and 7 LF of temporary of the there will be no clands, 0.09 AC. of jparian buffer rules ff will be conveyed o STA 52+04 drains Sensitive Areas hav o accommodate this	a (SR 2528) from load (SR 2541) an in the 303(D) imp span bridge at S over water. Fill activities will r cts have been m o a parallel jurisd 75 LF of tempor- channel impacts a permanent surfac do not apply for by curb & gutter s to Julian Branch ve been added to s designation.	n 1 to 2 lanes (median nd will end at the inter aired waters list. An ex TA 69+96.5 over Towr esult in 0.03 AC. of pe inimized by steepening ictional stream (to Tow ary channel impacts. E The water line across it this location due to u ce water impacts, 0.14 the Yadkin Pee-Dee F and discharged into we o and the portion from the within 50 ft from the	divided) in bot resection with Ja kisting 7'x8' dou n Creek will be g fill slopes and wn Creek) start Bank stabilizatio the Town Cree tility constructi AC. of tempor River basin. egetated or ripr -L- STA 52+04 he top of bank	n directions, ike Alexande Jole box culv replaced with elongating e ing at STA 6 on and the br ek main stem on. The total rary surface v rap lined ditcl to 79+23 dr. for all jurisdic	adding curb & gutter an r Blvd. (SR 1007). The ert at STA 41+19 over a wider, 2-span struct sion control activities a rosion control basins w 5+54 RT. The proposer idge replacement and a starting at STA 71+32 project impacts will res vater impacts, 424 LF of thes prior to entering Ju ains to Town Creek. To tional streams and all of	nd sidewalk project will Julian Bran ure to minir and roadway where approd d culvert ex along the To RT is prop ult in 0.03 / of permaner lian Branch wyn Creek is erosion con	througnou cross over ch will be e nize strean y fill will res opriate. The tension alo own Creek osed to be AC. permar nt channel i or Town C s on the 20 trol basins	L The widening 2 waterbodies, xtended due to 1 impacts. There ult in a total of 0.02 re will be 187 LF of ng Julian Branch main stem will designed using tent fill in wetlands, impacts and 606 reek. The portion 20 303(d) list for have been
	(4).		T	Creek	waterbody In		day No.			0.445.0		
Surface water Body	(1):		Town	Brimany Classifi	option	Classes			1	2-110-3		
NCDWR Surface Wa	ter Classification fo	or Water Body		Supplemental C	lassification:	None						
Other Stream Class	fication:	No	one									
Impairments:		biological	impairment	turbi	dity							
Aquatic T&E Specie	s?	No	Comments:									
NRTR Stream ID:		Town Creek						Buffer Rul	es in Effect:			No
Project Includes Bri	dge Spanning Wate	r Body?	Yes	Deck Drains Dis	charge Over B	uffer?	N/A	Dissipator	Pads Provided in Bu	uffer?		N/A
Deck Drains Discha	rge Over Water Bod	y?	No	(If yes, provid	le justification in	the General Project	Narrative)	(If yes, d	escribe in the Genera	I Project N	arrative; if	no, justify in the
(If yes, provi	de justification in the	General Project N	larrative)						General P	roject Narr	ative)	

Highway Stormwark	er 2016)			North Carolina Departm Highway Stormw STORMWATER MAN FOR NCDOT I	ent of Transportatio vater Program NAGEMENT PLAN PROJECTS	n				
WBS Element: 5016	3.1.1	TIP No.:	U-5738	County(ies):	Rowan			Page	2	of 2
				Additional Waterbo	dy Information					
Surface Water Body (2):		UT1 to Town Cre	eek (parallel to Ju	lian Rd starting at STA 65+54 RT)	NCDWR Stream In	dex No.:		12-115-3		
NCDWR Surface Water C	lassification fo	or Water Body		Primary Classification:	Class (	0				
Other Stream Classificati	on:	No	ne	Supplemental Classification:	None					1
Impairments:		biological i	mpairment	turbidity						
Aquatic T&E Species?		No	Comments:				•			
NRTR Stream ID:		SA					Buffer Rules in Effect:			No
Project Includes Bridge S	panning Wate	r Body?	No	Deck Drains Discharge Over B	uffer?	N/A	Dissipator Pads Provided	in Buffer?		N/A
Deck Drains Discharge O	ver Water Bod	ly?	N/A	(If yes, provide justification in	the General Project	Narrative)	(If yes, describe in the Ge	eneral Project N	larrative; if no	o, justify in the
(If yes, provide jus	tification in the	General Project N	arrative)	1			Gen	eral Project Nar	rative)	
			· ·	·						
Surface Water Body (3):		L I	JT2 to Town Cre	ek (Julian Branch)	NCDWR Stream In	dex No.:		12-115-3		
				Primary Classification: Class C		C				
NCDWR Surface Water Classification for Wat		or water Body		Supplemental Classification:	None					1
Other Stream Classification:		No	ne							1
Other Stream Classification:         None           mpairments:         biological imp		mpairment	turbidity						1	
Aquatic T&E Species?		No	Comments:	,			-			
NRTR Stream ID:		SB					Buffer Bules in Effect:			No
Project Includes Bridge S	panning Wate	r Body?	No	Deck Drains Discharge Over B	uffer?	N/A	Dissipator Pads Provided	in Buffer?		N/A
Deck Drains Discharge O	ver Water Bod	v?	N/A	(If ves. provide justification in	the General Project	Narrative)	(If yes describe in the General Project Narrative: if no justify in the			
(If yes, provide jus	tification in the	General Project N	arrative)				General Project Narrative)			
Surface Water Body (4):					NCDWR Stream In	dex No.:				
	loopification fo	w Water Bedy		Primary Classification:						
NCDWR Surface Water C	lassification ic	or water body		Supplemental Classification:						
Other Stream Classificati	on:									
Impairments:										
Aquatic T&E Species?			Comments:				•	•		
NRTR Stream ID:							Buffer Rules in Effect:			
Project Includes Bridge S	panning Wate	r Body?		Deck Drains Discharge Over B	uffer?		Dissipator Pads Provided	in Buffer?		
Deck Drains Discharge O	ver Water Bod	ly?		(If yes, provide justification in	the General Project	Narrative)	(If yes, describe in the Ge	eneral Project N	arrative; if no	o, justify in the
(If yes, provide jus	tification in the	General Project N	arrative)	1			Gen	eral Project Nar	rative)	
		,	,	•						
Surface Water Body (5):		North Carolina Department of Transportation Highway Stormwater Program STORMWATER MANAGEMENT PLAN FOR WOODT PROJECTS           attist of the Color Project State	dex No.:		1					
NCDWR Surface Water C	lassification fo	or Water Body		Primary Classification:						4
		- Water Body		Supplemental Classification:						1
Other Stream Classificati	on:									1
Impairments:										
Aquatic T&E Species?			Comments:							
NRTR Stream ID:							Buffer Rules in Effect:			
Project Includes Bridge S	panning Wate	r Body?		Deck Drains Discharge Over Bu	uffer?		Dissipator Pads Provided	in Buffer?		
Deck Drains Discharge O	ver Water Bod	ly?		(If yes, provide justification in	the General Project	Narrative)	(If yes, describe in the Ge	eneral Project N	larrative; if no	o, justify in the
(If yes, provide jus	tification in the	General Project N	arrative)	]			Gen	eral Project Nar	rative)	













FROM \_L\_ STA. 76+90, 121' LT TO STA. 77+08, 70' LT









PROFILE VIEW ALONG CULVERT













		PROJECT REFERENCE NO	. SHEET NO.
	1 Glenwood Avenue	U-5738	PRM-7
ngineering & Construction, Inc.	Raleigh, NC 27603 Tel:919.789.9977 Fax:919.789.9591 License: C-2197	ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
PERMIT DRAWI SHEET 7 OF	NG 19	DO NOT USE FOR	TE PLANS
		DOCUMENT NOT C UNLESS ALL SIGNA	ONSIDERED FINAL TURES COMPLETED
2011			
2011			
3011			







# Raleigh, NC 27603 Tel:919.789.9977 Fax:919.789.9591 License: C-2197 DADWAY DESIG ENGINEER HYDRAULICS ring & Construction, Inc PERMIT DRAWING SHEET 10 OF 19 INCOMPLETE PLANS DO NOT USE FOR R/W ACQUISITION SITE 2D DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED SITE 2B 15″-CL TS MC DC +00 122' RT +00/142' RT DUE IMPACTS LEGEND **DENOTES TEMPORARY** IMPACTS IN SURFACE WATER **DENOTES IMPACTS IN** SURFACE WATER DENOTES FILL IN WETLAND DENOTES MECHANIZED CLEARING

ROJECT REFERENCE

11 - 573

SHEET NC

PRM-IC





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		1 Glenwood Avenue		project reference no $U-5738$	sheet no. PRM-13		
Engl	heering & Construction, Inc. PERMIT DRAWING SHEET 13 OF 19		503 77 91 7	ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER		
	PERMIT DRAV SHEET 13 O	VING F 19		INCOMPLE do not use for	FE I R/W A	PLANS COULSITION	
NAD	83 NA 2011			DOCUMENT NOT C UNLESS ALL SIGNA	ONSIE TURES	DERED FINAL S COMPLETED	







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![](_page_35_Figure_0.jpeg)

![](_page_36_Figure_0.jpeg)

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				WETLAND IMPACTS					SURFACE WATER IMPACTS			
							Hand			Existing	Existing	
Site No.	Station (From/To)	Structure Size / Type	Permanent Fill In Wetlands	Temp. Fill In Wetlands	Excavation in Wetlands	Mechanized Clearing in Wetlands	Clearing in Wetlands	Permanent SW impacts	Temp. SW impacts	Channel Impacts Permanent	Channel Impacts Temp.	Natura Strear Desig
			(ac)	(ac)	(ac)	(ac)	(ac)	(ac)	(ac)	(11)	(11)	(11)
1A	40+24 LT TO 41+32 RT	Extension						0.02		80		
1B	40+24 LT TO 41+32 RT	Bank Stabilization						0.02	0.02	67	75	
2A	65+54 RT TO 65+64 RT	Bank Stabilization						< 0.01		10		
2B	65+64 RT TO 66+73 RT 67+09 RT TO 69+15 RT	Dewatering Operation				0.01			0.04		318	
2C	66+73 RT TO 67+09 RT	Utility Relocation							< 0.01		36	
2D	67+67 RT TO 68+13 RT 69+15 RT TO 70+91 RT	Roadway Fill/Impacts	< 0.01					0.02		177		
3	68+95 LT TO 69+87 LT	Roadway Fill	0.02									
4	69+66 LT TO 69+92 LT	E&SC Measures				< 0.01						
5A	70+27 LT TO 71+70 RT	Bank Stabilization						0.03	0.04	90	78	
5B	70+52 LT TO 71+12 RT	Bridge Replacement							0.03		99	
)TALS'	k:		0.03			0.02		0.09	0.14	424	606	0

NC DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS Sept 2021 ROWAN COUNTY PROJECT: U-5738 WBS-50163.1.1 SHEET 19 OF 19

Revised 2016 09 09