



STATE OF NORTH CAROLINA  
DEPARTMENT OF TRANSPORTATION

ROY COOPER  
GOVERNOR

JAMES H. TROGDON, III  
SECRETARY

February 19, 2020

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

ATTN: Ms. Lori Beckwith  
NCDOT Coordinator

Subject: **Application for Section 404 Nationwide Permit 14, and Section 401 Water Quality Certification** for the Proposed Replacement of Bridge 189 on SR 1325 (Mountain View Church Road) over UT to South Deep Creek in Yadkin County, Division 11, TIP No. BR-0127, Debit \$240 from WBS 48836.1.1.

Dear Madam:

The North Carolina Department of Transportation (NCDOT) proposes to replace bridge number 189 on SR 1325 with a new bridge on the existing alignment. Traffic will be detoured off-site during construction.

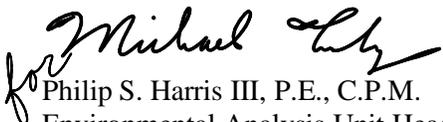
As a result of replacing the existing bridge, there will be 14 linear feet of stream bank stabilization at the outlet of a new ditch, and 0.02 acre of temporary stream impacts from floating turbidity curtains needed for removal of the existing bridge.

Please see enclosed copies of the Pre-Construction Notification (PCN), bat memo, Stormwater Management Plan, and Permit Drawings. A Categorical Exclusion (CE) was completed in October 2019 and distributed shortly thereafter. Additional copies are available upon request.

This project calls for a letting date of July 21, 2020 and a review date of June 2, 2020.

A copy of this permit application and its distribution list will 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](mailto:ekcheely@ncdot.gov) or (919) 707-6108.

Sincerely,

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

cc: NCDOT Permit Application Standard Distribution List



## Pre-Construction Notification (PCN) Form

For Nationwide Permits and Regional General Permits  
(along with corresponding Water Quality Certifications)

September 29, 2018 Ver 3

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:\***

Yadkin

**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  No

**(NCDOT only) T.I.P. or state project number:**

BR-0127

**WBS #\***

48836.1.1

(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)

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

Nationwide Permit (NWP)

Regional General Permit (RGP)

Standard (IP)

This form may be used to initiate the standard/individual permit process with the Corps. Please contact your Corps representative concerning submittals for standard permits. All required items that are not provided in the E-PCN can be added to the miscellaneous upload area located at the bottom of this form.

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

Yes  No

**Nationwide Permit (NWP) Number:**

14 - Linear transportation

**NWP Numbers (for multiple NWPS):**

List all NW 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 Permit

401 Water Quality Certification - Express

Riparian Buffer Authorization

**1e. Is this notification solely for the record because written approval is not required?**

\*

**For the record only for DWR 401 Certification:**

Yes  No

**For the record only for Corps Permit:**

Yes  No

**1f. Is this an after-the-fact permit application?\***

Yes

No

**1g. Is payment into a mitigation bank or in-lieu fee program proposed for mitigation of impacts?**

If so, attach the acceptance letter from mitigation bank or in-lieu fee program

- Yes  No

**Acceptance Letter Attachment**

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

FILETYPE MUST BE PDF

**1h. Is the project located in any of NC's twenty coastal counties? \***

- Yes  No

**1j. Is the project located in a designated trout watershed? \***

- Yes  No

Link to trout information: <http://www.saw.usace.army.mil/Missions/Regulatory-Permit-Program/Agency-Coordination/Trout.aspx>

**B. Applicant Information**

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

NCDOT

**1b. Primary Contact Email: \***

ekcheely@ncdot.gov

**1c. Primary Contact Phone: \***

(xxx)xxx-xxxx  
(919)707-6108

**1d. Who is applying for the permit? \***

- Owner (Check all that apply)  Applicant (other than owner)

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

- Yes  No

**2. Owner Information**

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

NC Department of Transportation

**2b. Deed book and page no.:**

**2c. Responsible party:**

(for Corporations)

**2d. Address \***

Street Address

1598 Mail Service Center

Address Line 2

City

Raleigh

Postal / Zip Code

27699

State / Province / Region

NC

Country

USA

**2e. Telephone Number: \***

(xxx)xxx-xxxx

(919)707-6108

**2f. Fax Number:**

(xxx)xxx-xxxx

**2g. Email Address: \***

pharris@ncdot.gov

**C. Project Information and Prior Project History**

**1. Project Information**

**1a. Name of project: \***

BR-0127: Replace Bridge 189 over UT to South Deep Creek on SR 1325 (Mountain View Church Road)

**1b. Subdivision name:**

(if appropriate)

**1c. Nearest municipality / town: \***

Hamptonville

**2. Project Identification**

**2a. Property Identification Number:**

(tax PIN or parcel ID)

**2b. Property size:**

(in acres)

**2c. Project Address**

Street Address

Address Line 2

City

Postal / Zip Code

State / Province / Region

Country

**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.)

**Latitude: \***

36.147991  
ex: 34.208504

**Longitude: \***

-80.802031  
-77.796371

**3. Surface Waters****3a. Name of the nearest body of water to proposed project: \***

South Deep Creek

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

WS-III

[Surface Water Lookup](#)

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

Yadkin-PeeDee

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

030401011101

[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: \***

Surrounding land use is primarily agricultural and residential, interspersed with patches of forested areas and tree-lined streams.

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

Yes  No  Unknown

**4d. Attach an 8 1/2 X 11 excerpt from the most recent version of the USGS topographic map indicating the location of the project site. (for DWR)**

[Click the upload button or drag and drop files here to attach document](#)

File type must be pdf

**4e. Attach an 8 1/2 X 11 excerpt from the most recent version of the published County NRCS Soil Survey map depicting the project site. (for DWR)**

[Click the upload button or drag and drop files here to attach document](#)

File type must be pdf

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

0.07

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

(intermittent and perennial)

1,272

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

The replacement of bridge 189 is part of the Growing Rural Economy and Agriculture through Transportation and Technology Enhancement or Replacement in North Carolina (GREATER-NC) Project under the United States Department of Transportation's 2018 Better Utilizing Investments to Leverage Development (BUILD) Grant Program. The purpose of the grant and this bridge replacement is to provide transportation infrastructure to support economic development and improve physical and digital connectivity in rural communities in North Carolina. The current posted weight restriction on Bridge 189 prohibits large or heavy vehicles, typically used in transporting agricultural and manufactured products, from using the bridge. Vehicles above the posted limit must detour 3.8 miles to avoid the bridge. Replacing this bridge will eliminate posted weight limits by providing a safe crossing for all legal loads and will make accommodations for broadband installation in order to support economic competitiveness.

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

The proposed project will replace the existing 31 foot-long, two-lane bridge with a new 62 foot-long, two-lane bridge on the existing alignment. Traffic will be detoured offsite during construction. Standard road building equipment such as trucks, dozers, and cranes will be used.

**4j. Please upload project drawings for the proposed project.**

[Click the upload button or drag and drop files here to attach document](#)

BR-0127 Permit Drawings.pdf

2.86MB

File type must be pdf

**5. Jurisdictional Determinations**

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

Yes  No  Unknown

**Comments:**

Of the delineated areas, only one perennial stream, SC (UT to South Deep Creek), is impacted by this project.

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

Preliminary  Approved  Not Verified  Unknown  N/A

**Corps AID Number:**

Example: SAW-2017-99999

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

Name (if known): Jim Mason, Lillian Lovingood

Agency/Consultant Company: Three Oaks Engineering

Other:

**5d1. Jurisdictional determination upload**

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

File type must be PDF

**6. Future Project Plans**

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

Yes  No

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.

No.

**D. Proposed Impacts Inventory**

**1. Impacts Summary**

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

Wetlands  Streams-tributaries  Buffers  
 Open Waters  Pond Construction

**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 *	3d. S. name *	3e. Stream Type * (?)	3f. Type of Jurisdiction *	3g. S. width * Average (feet)	3h. Impact length * (linear feet)
S1	Site 1 - Temporary turbidity curtains for bridge replacement	Temporary	Other	SC	Perennial	Both	20 Average (feet)	67 (linear feet)
S2	Site 1 - Bank stabilization at ditch outlet	Permanent	Bank Stabilization	SC	Perennial	Both	20 Average (feet)	14 (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:**

14

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

67

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

81

**3j. Comments:**

Temporary impacts total 0.02 acre (which includes an additional 14' of temporary impacts, but these overlap with bank stabilization impacts).

**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:\*

The proposed replacement bridge will be on the same alignment as the existing bridge, will be longer, and will span the stream. Overall drainage patterns will be maintained. On the end side of the bridge, a traffic bearing grated drop inlet with double frame and grates (2GI) will be placed on the left and right sides of the roadway in the shoulder berm gutter to pick up runoff from the bridge. Deck drains will not discharge directly above water. Class II rip rap will be used at the embankment of the ditch outlet on the left end side of the bridge.

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

NCDOT will adhere to Best Management Practices for Construction and Maintenance Activities.

## 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  No

### 2b. If this project DOES NOT require Compensatory Mitigation, explain why:

The NCDOT does not propose mitigation for the temporary and bank stabilization impacts related to this project. These impacts do not require permanent fill in the stream bed, therefore, under Section 404 of the Clean Water Act, do not constitute Loss of Waters of the U.S., and are not subject to compensatory mitigation.

NC Stream Temperature Classification Maps can be found under the Mitigation Concepts tab on the Wilmington District's RIBITS website.

## 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:

No buffered resources within project area.

### 2. Stormwater Management Plan

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

Yes  No

Comments:

## 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, does the project require preparation of an environmental document pursuant to the requirements of the National or State (North Carolina) Environmental Policy Act (NEPA/SEPA)?\*

Yes  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  No

#### NEPA or SEPA Final Approval Letter

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

BR-0127 CE.pdf

13.44MB

FILE TYPE MUST BE PDF

### 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)?\*

Yes  No

### 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?\*

Yes  No

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

Due to the minimal transportation impact resulting from this bridge replacement, this project will neither influence nearby land uses nor stimulate growth. Therefore, a detailed indirect or cumulative effects study will not be necessary.

#### 4. 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

**5c. If yes, indicate the USFWS Field Office you have contacted.**

Asheville

**5d. Is another Federal agency involved? \***

Yes  No  Unknown

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

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.army.mil/NLEB/1-30-17-signed\\_NLEB-SLOPES&apps.pdf](http://saw-reg.usace.army.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.? \***

Yes  No

**If yes, please provide details to include type of percussive activity, purpose, duration, and specific location of this activity on the property.**

[Click the upload button or drag and drop files here to attach document](#)

File must be PDF

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

As of November 13, 2019, the USFWS lists one protected species for Yadkin County. A memo stating that NCDOT is in compliance with 4(d) with regard to northern long-eared bat was sent to USFWS (Claire Ellwanger) on 2/18/2020.

**Consultation Documentation Upload**

[Click the upload button or drag and drop files here to attach document](#)

BR-0127 NLEB 4(d) Yadkin.pdf

203.85KB

File type must be PDF

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

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

Yes  No

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

NMFS County index.

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

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

**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)? \***

Yes  No

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

NEPA documentation

**7c. Historic or Prehistoric Information Upload**

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

File must be PDF

**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? \***

Yes

No

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

FEMA Maps

**Miscellaneous**

**Comments**

**Miscellaneous attachments not previously requested.**

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

BR-0127 Cover Letter.pdf

340.16KB

File must be PDF or KMZ

**Signature**

\*

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

- 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: \***

Michael Anthony Turchy

**Signature**

*Michael Turchy*

**Date**

2/19/2020



STATE OF NORTH CAROLINA  
DEPARTMENT OF TRANSPORTATION

ROY COOPER  
GOVERNOR

JAMES H. TROGDON, III  
SECRETARY

March 29, 2019

TO: Heaven Manning  
Environmental Coordination & Permitting Group Western, EAU

FROM: Melissa Miller, Environmental Program Consultant  
Biological Surveys Group, EAU

SUBJECT: Section 7 survey results for the northern long-eared bat (*Myotis septentrionalis*) associated with the replacement of Bridge No. 189 over UT of South Deep Creek on SR 1325 in Yadkin County, **TIP No. BR-0127**.

The North Carolina Department of Transportation (NCDOT, Division 11) proposes to replace Bridge No. 189 over UT of South Deep Creek on SR 1325 in Yadkin County, TIP No. BR-0127. The existing bridge is a single span structure with timber deck, steel I-beams, timber end walls and guard rails. The overall length of the structure is 31 feet.

Northern long-eared bat

The project to replace Bridge No. 189 has been reviewed for effects on the northern long-eared bat (NLEB). As of May 4, 2015, NLEB is listed by the U.S. Fish and Wildlife Service (USFWS) as "Threatened" under the Endangered Species Act of 1973. As of March 29, 2019, NLEB is listed by USFWS ([http://www.fws.gov/raleigh/species/cntylist/nc\\_counties.html](http://www.fws.gov/raleigh/species/cntylist/nc_counties.html)) as "probable/potential" in Yadkin County. USFWS also established a final rule under the authority of section 4(d) of the Endangered Species Act that provides measures for the conservation of NLEB. The USFWS has tailored the final 4(d) rule to prohibit the take of NLEB from certain activities within areas where they are in decline. This incidental take protection applies only to known NLEB occupied maternity roost trees and known NLEB hibernacula. Effective February 16, 2016, incidental take resulting from tree removal is prohibited if it 1) occurs within a ¼ mile radius of known NLEB hibernacula; or 2) cuts or destroys known occupied maternity roost trees or any other trees within a 150-foot radius from the known maternity tree during the pup season (June 1-July 31).

According to the North Carolina Natural Heritage Program (NHP) Biotics Database, most recently updated January 2019, **the nearest NLEB hibernacula record is 56 miles west of the project 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](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.

For the proposed action, NCDOT has committed to the conservation measures listed below:

- 1) No alterations of a known hibernacula entrance or interior environment if it impairs an essential behavioral pattern, including sheltering northern long-eared bats (January 1 through December 31);
- 2) No tree removal within a 0.25 mile radius of a known hibernacula (January 1 through December 31); and
- 3) No cutting or destroying a known, occupied maternity roost tree, or any other trees within a 150-foot radius from the known, occupied maternity tree during the period from June 1 through and including July 31.

**NCDOT has determined that the proposed action does not require separate consultation on the grounds that the proposed action is consistent with the final Section 4(d) rule**, codified at 50 C.F.R. § 17.40(o) and effective February 16, 2016. NCDOT may presume its determination is informed by best available information and consider Section 7 responsibilities fulfilled for NLEB.

If you need any additional information, please contact Melissa Miller at 919-707-6127.



North Carolina Department of Transportation

Highway Stormwater Program  
STORMWATER MANAGEMENT PLAN

FOR NCDOT PROJECTS



(Version 2.08; Released April 2018)

WBS Element: 48836.1.1      TIP No.: BR-0127      County(ies): Yadkin      Page 1 of 1

General Project Information

WBS Element:	48836.1.1	TIP Number:	BR-0127	Project Type:	Bridge Replacement	Date:	1/27/2020
NCDOT Contact:	David Stutts			Contractor / Designer:	STV Engineers, Inc. / Shirshant Sharma		
Address:	1020 Birch Ridge Drive Raleigh, NC 27610			Address:	900 West Trade Street, Ste. 715 Charlotte, NC 28202		
	Phone:	(919) 707-6442			Phone:	(704) 816-2556	
	Email:	dstutts@ncdot.gov			Email:	Shirshant.Sharma@stvinc.com	
City/Town:	Hamptonville, NC			County(ies):	Yadkin		
River Basin(s):	Yadkin-Pee Dee			CAMA County?	No		
Wetlands within Project Limits?	Yes						

Project Description

Project Length (lin. miles or feet):	0.11 mi	Surrounding Land Use:	Rural Residential, Wooded					
	Proposed Project			Existing Site				
Project Built-Upon Area (ac.)	0.3	ac.	0.3	ac.				
Typical Cross Section Description:	Bridge: Two 10' lanes, 5' to the right shoulder and 5' to the left shoulder. Approach: Two 10' lanes, variable paved shoulders.			Bridge: Two 9' lanes, 3.1' to the right shoulder and 3.3' to the left shoulder. Approach: Two 9' lanes, variable shoulders.				
Annual Avg Daily Traffic (veh/hr/day):	Design/Future:	720	Year:	2040	Existing:	360	Year:	2015
General Project Narrative: (Description of Minimization of Water Quality Impacts)	<p>The existing 30' 9", 1 span bridge over UT to South Deep Creek on SR 1325 (Mountain View Church Road) is being replaced with a 1 span bridge with a span arrangement of 1 @ 60' (24" cored slab). The bridge will have 1.5:1 sloping abutments. The bridge will be crowned with a 2.5% slope to the left and right. The bridge will also have 10' travel lanes with 5' to both left and right shoulders, 27'-10" clear width and 30' OTO width. The existing bridge structure will be removed. Overall drainage patterns will be maintained. There are ditches that flow towards the bridge on both the begin and end left sides of the structure. There is a ditch right of the begin side which will be maintained in the proposed condition and there are proposed special 'V' ditches on the upstream side of the bridge. Class-II riprap will be used at the embankment of the standard 'V' ditch outlet on the left end side of the bridge. On the end side of the bridge, a traffic bearing grated drop inlet with double frame and grates (2GI) was placed on both the left and right sides of the roadway in the shoulder berm gutter to pick up runoff from the bridge. The existing concrete abutments will be retained. Deck drains will be required to meet spread criteria but the drains will not discharge directly above water.</p>							

Waterbody Information

Surface Water Body (1):	UT to South Deep Creek		NCDWR Stream Index No.:	12-84-2-(1)			
NCDWR Surface Water Classification for Water Body	Primary Classification:	Water Supply III (WS-III)					
	Supplemental Classification:	None					
Other Stream Classification:	None						
Impairments:	None						
Aquatic T&E Species?	No	Comments:					
NRTR Stream ID:				Buffer Rules in Effect:	N/A		
Project Includes Bridge Spanning Water Body?	Yes	Deck Drains Discharge Over Buffer?	N/A	Dissipator Pads Provided in Buffer?	N/A		
Deck Drains Discharge Over Water Body?	No	(If yes, provide justification in the General Project Narrative)		(If yes, describe in the General Project Narrative; if no, justify in the General Project Narrative)			
(If yes, provide justification in the General Project Narrative)							

09/05/19

**TIP PROJECT: BR-0127**

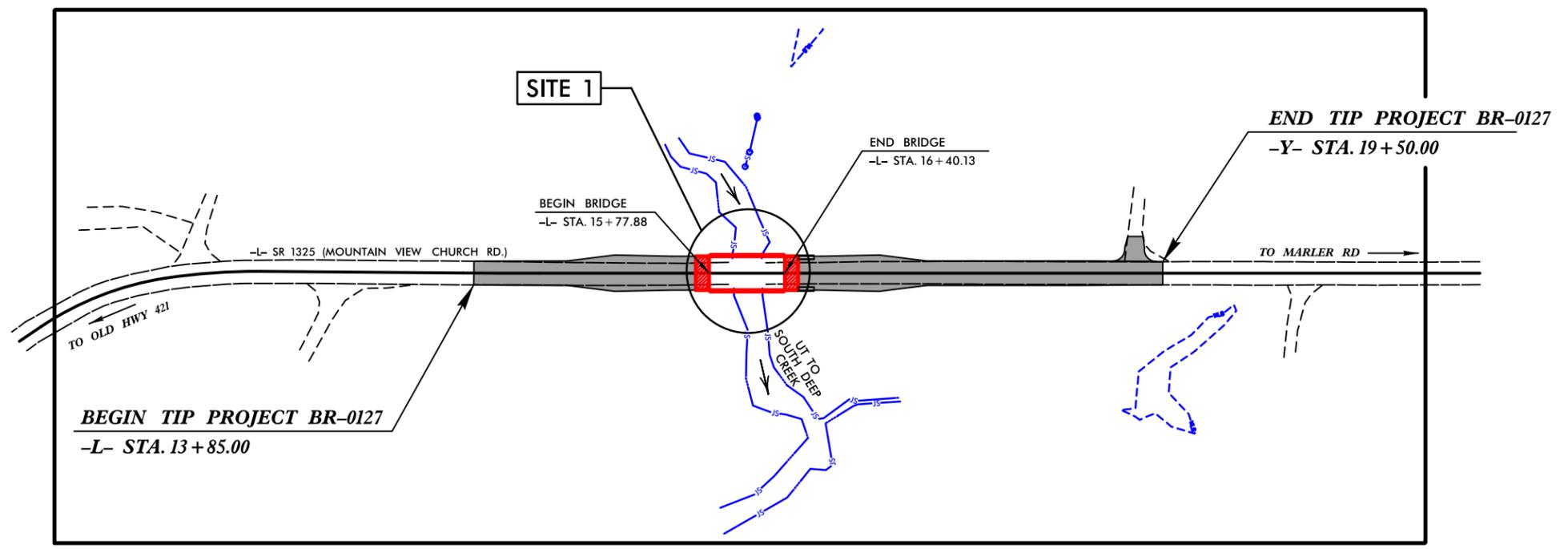
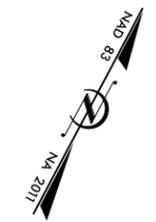
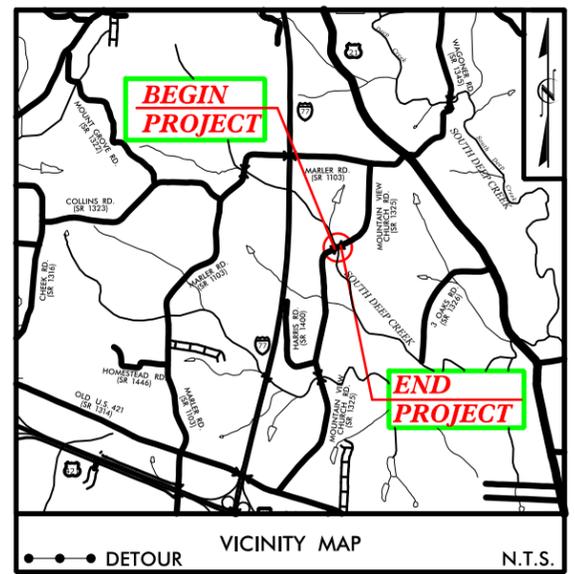
STATE OF NORTH CAROLINA  
DIVISION OF HIGHWAYS

**YADKIN COUNTY**

LOCATION: BRIDGE NO. 980189 OVER U.I. TO SOUTH DEEP CREEK ON SR 1325 (MOUNTAIN VIEW CHURCH RD)

**SURFACE WATER IMPACTS PERMIT**

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	BR-0127	1	5
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	
48836.1.1		P.E.	

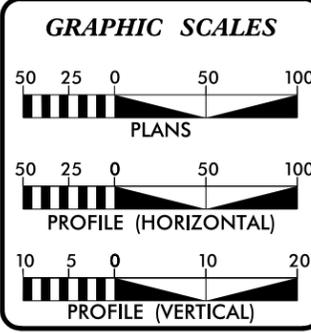


THIS PROJECT IS NOT WITHIN ANY MUNICIPAL BOUNDARIES.  
CLEARING ON THIS PROJECT SHALL BE PERFORMED TO THE LIMITS ESTABLISHED BY METHOD \_\_\_\_\_

Permit Drawing  
Sheet 1 of 5

**DOCUMENT NOT CONSIDERED FINAL  
UNLESS ALL SIGNATURES COMPLETED**

**CONTRACT:**



**DESIGN DATA**

ADT 2015 =	360
ADT 2040 =	720
D =	N/A
T =	N/A
V =	55 MPH

FUNC. CLASSIFICATION:  
LOCAL  
SUB-REGIONAL TIER

**PROJECT LENGTH**

LENGTH OF ROADWAY TIP PROJECT BR-0127 = 0.095 MILES  
LENGTH OF STRUCTURE TIP PROJECT BR-0127 = 0.012 MILES  
TOTAL LENGTH OF TIP PROJECT BR-0127 = 0.107 MILES

NCDOT CONTACT: DAVID STUTTS, PE  
Structures Management Unit

PLANS PREPARED FOR THE NCDOT BY:

**STV** 100 Years  
STV Engineers, Inc.  
900 West Trade St., Suite 715  
Charlotte, NC 28202  
NC License Number F-0991

2018 STANDARD SPECIFICATIONS	
RIGHT OF WAY DATE:	KEVIN G. BAILEY, PE PROJECT ENGINEER
LETTING DATE:	ETHAN P. WRIGHT, PE PROJECT DESIGNER

**HYDRAULICS ENGINEER**

SIGNATURE: \_\_\_\_\_ P.E.

**ROADWAY DESIGN ENGINEER**

SIGNATURE: \_\_\_\_\_ P.E.



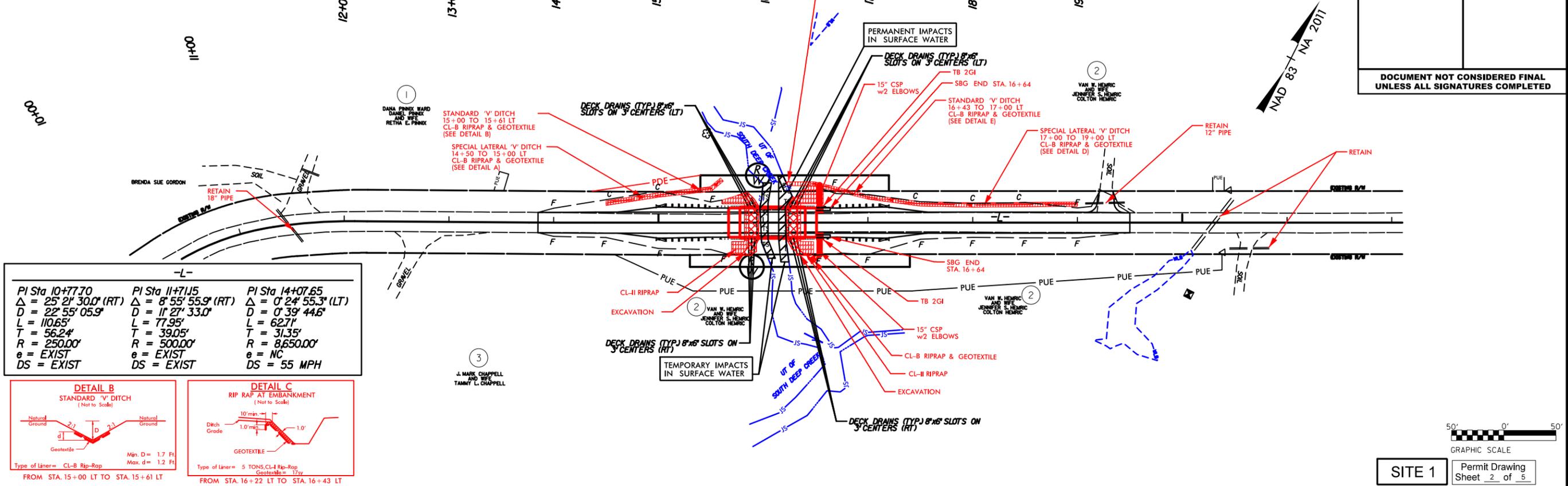
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8/17/2019  
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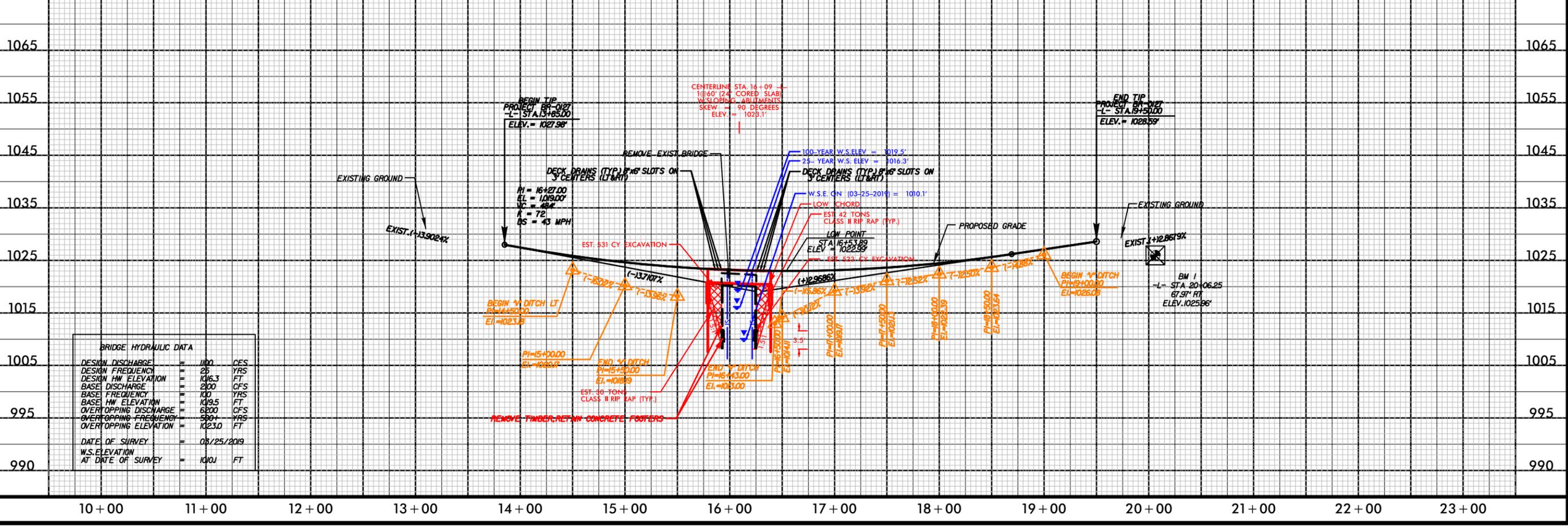
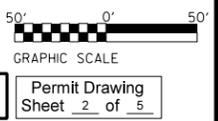
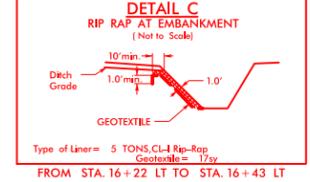
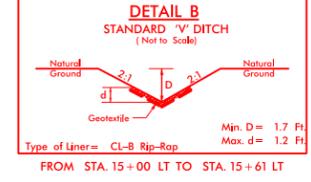
LEGEND	
	DENOTES TEMPORARY IMPACTS IN SURFACE WATER
	DENOTES PERMANENT IMPACTS IN SURFACE WATER

STV Engineers, Inc.  
 900 West Trade St., Suite 715  
 Charlotte, NC 28202  
 NC License Number F-0991

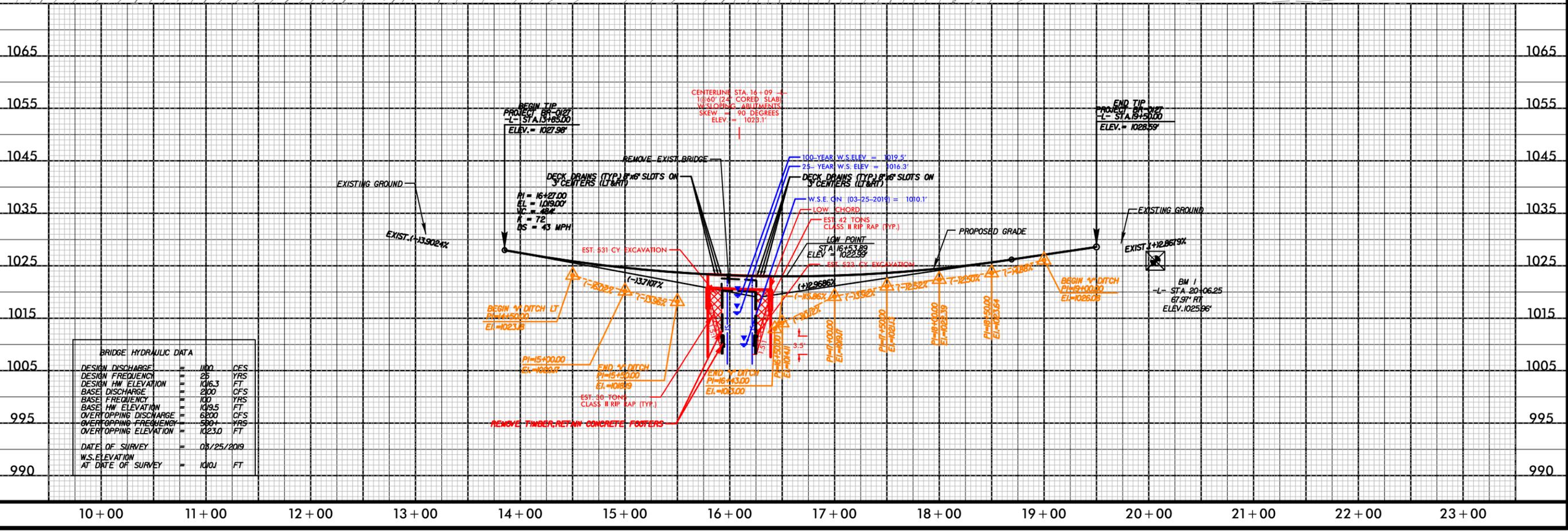
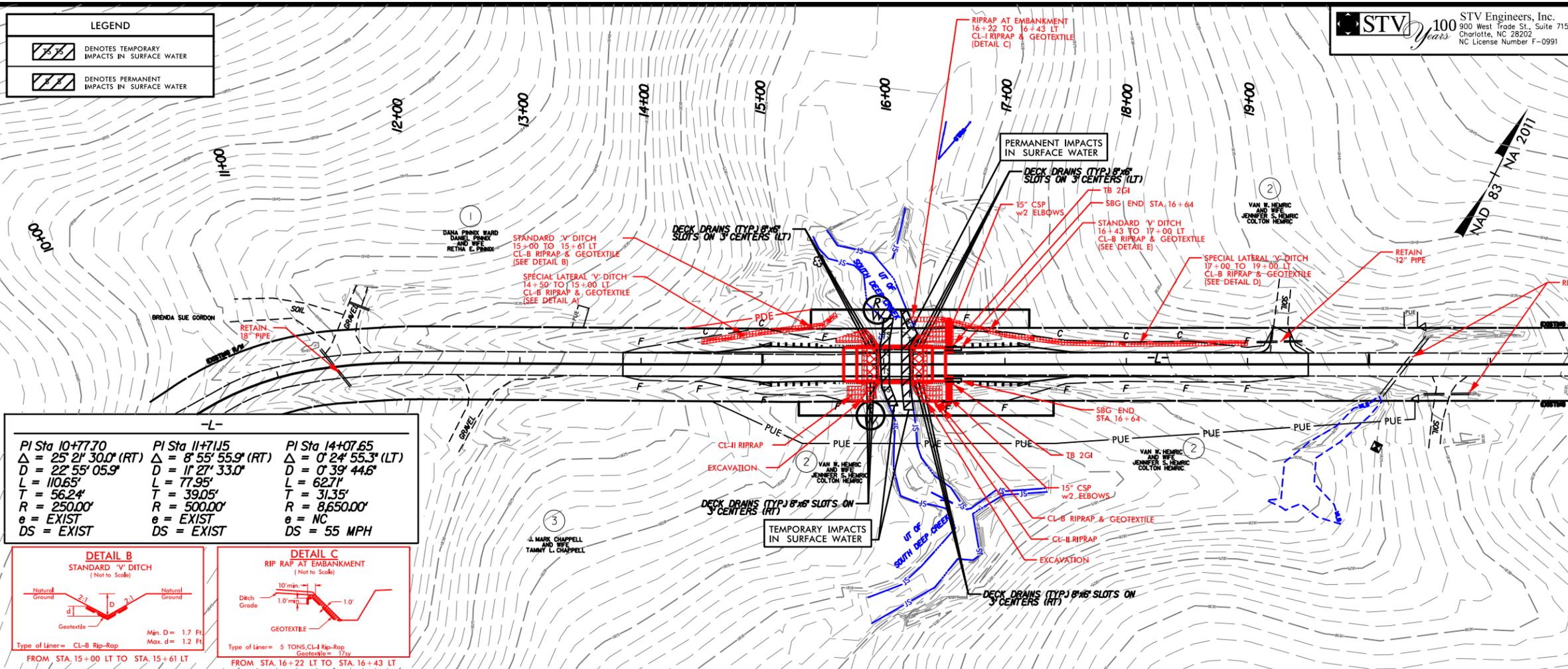
PROJECT REFERENCE NO. <b>BR-0127</b>	SHEET NO. <b>2</b>
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	



-L-		
PI Sta 10+77.70	PI Sta 11+71.15	PI Sta 14+07.65
$\Delta = 25' 21" 30.0"$ (RT)	$\Delta = 8' 55" 55.9"$ (RT)	$\Delta = 0' 24" 55.3"$ (LT)
$D = 22' 55" 05.9"$	$D = 11' 27" 33.0"$	$D = 0' 39" 44.6"$
$L = 110.65'$	$L = 77.95'$	$L = 62.71'$
$T = 56.24'$	$T = 39.05'$	$T = 31.35'$
$R = 250.00'$	$R = 500.00'$	$R = 8,650.00'$
$\theta = EXIST$	$\theta = EXIST$	$\theta = NC$
$DS = EXIST$	$DS = EXIST$	$DS = 55 MPH$



1/27/2020  
 H:\Projects\PERMITS\Environmental\Drawings\PRM\_SHT\BR-0127\_hyd\_prm\_psh03.dgn



LEGEND	
	DENOTES TEMPORARY IMPACTS IN SURFACE WATER
	DENOTES PERMANENT IMPACTS IN SURFACE WATER

**STV** 100 Years  
 STV Engineers, Inc.  
 900 West Trade St., Suite 715  
 Charlotte, NC 28202  
 NC License Number F-0991

PROJECT REFERENCE NO. <b>BR-0127</b>	SHEET NO. <b>4</b>
R/W SHEET NO.	HYDRAULICS ENGINEER
ROADWAY DESIGN ENGINEER	
<b>DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED</b>	

1  
 DANA PINNIX WARD  
 DANIEL PINNIX  
 AND WIFE  
 RETHA E. PINNIX

STANDARD 'V' DITCH  
 15+00 TO 15+61 LT  
 CL-B RIPRAP & GEOTEXTILE  
 (SEE DETAIL B)

SPECIAL LATERAL 'V' DITCH  
 14+50 TO 15+00 LT  
 CL-B RIPRAP & GEOTEXTILE  
 (SEE DETAIL A)

RIPRAP AT EMBANKMENT  
 16+22 TO 16+43 LT  
 CL-I RIPRAP & GEOTEXTILE  
 (DETAIL C)

DECK DRAINS (TYP.) 8"x6"  
 SLOTS ON 3' CENTERS (LT)

PERMANENT IMPACTS  
 IN SURFACE WATER

DECK DRAINS (TYP.) 8"x6"  
 SLOTS ON 3' CENTERS (LT)

15" CSP  
 w/2 ELBOWS

TB 2GI

SBG END STA. 16+64

STANDARD 'V' DITCH  
 16+43 TO 17+00 LT  
 CL-B RIPRAP & GEOTEXTILE  
 (SEE DETAIL E)

SPECIAL LATERAL 'V' DITCH  
 17+00 TO 19+00 LT  
 CL-B RIPRAP & GEOTEXTILE  
 (SEE DETAIL D)

RETAIN  
 12" PIPE

SBG END  
 STA. 16+64

2  
 VAN W. HEMRIC  
 AND WIFE  
 JENNIFER S. HEMRIC  
 COLTON HEMRIC

DECK DRAINS (TYP.) 8"x6" SLOTS ON  
 3' CENTERS (RT)

TEMPORARY IMPACTS  
 IN SURFACE WATER

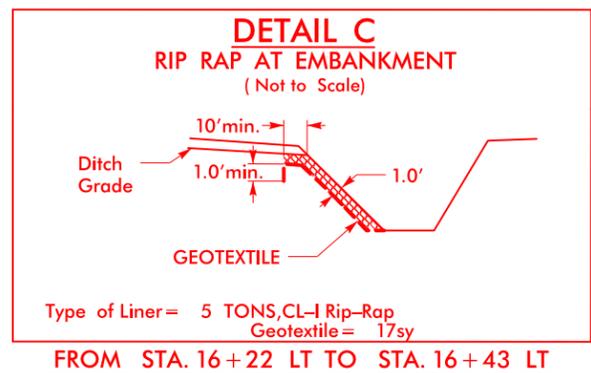
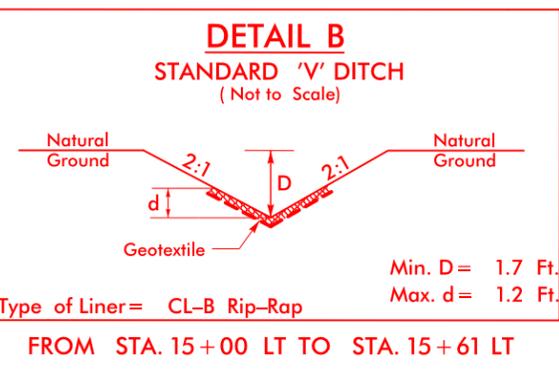
15" CSP  
 w/2 ELBOWS

CL-B RIPRAP & GEOTEXTILE

CL-II RIPRAP

EXCAVATION

DECK DRAINS (TYP.) 8"x6" SLOTS ON  
 3' CENTERS (RT)



Permit Drawing  
 Sheet 4 of 5

**SITE 1**

**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	15+91.58/ 16+27.61	1 @ 60' (24" Cored Slab), TEMPORARY IMPACTS DUE TO FLOATING TURBIDITY CURTAIN						0.02		67*		
1	15+91.58/ 16+27.61	1 @ 60' (24" Cored Slab), PERMANENT IMPACT DUE TO BANK STABILIZATION						<0.01	14			
<b>TOTALS:</b>								<0.01	0.02	14	67	

\* TEMPORARY IMPACTS LENGTH TOTAL = 81' (14' TAKEN INTO ACCOUNT IN PERMANENT IMPACTS)

NC DEPARTMENT OF TRANSPORTATION  
 DIVISION OF HIGHWAYS  
 BRIDGE #189 OVER U.T. TO SOUTH DEEP CREEK  
 ON SR 1325 (MOUNTAIN VIEW CHURCH RD)  
 YADKIN COUNTY  
 BR-0127  
 SHEET 5 of 5 1/27/2020