



South Carolina Department of Transportation  
On Behalf of the Federal Highway Administration - South Carolina Division Office



PROCESSING FORM FOR PROGRAMMATIC CATEGORICAL EXCLUSIONS  
NON MAJOR FEDERAL ACTIONS

State ID  Fed Project #  Route  County

Part 1 - Project Description

Include the Project Name/Description

This project involves the emergency replacement of the S-45 (Lester Road) bridge over the Little Pee Dee River and an adjacent bridge over the Little Pee Dee Swamp (washout) in Dillon County. The bridges have been closed to traffic since October 2016 due to damaged sustained from Hurricane Matthew. Preliminary design calls for the bridges to be replaced on alignment with some minor elevation increase. The main bridge is located near a Dillon County owned and operated public boat ramp. It is anticipated that the boat ramp will be closed during construction and that the permanent relocation of the access drive to the boat ramp will need to be shifted. The 4 (f) De Minimis process was completed and approved by Dillon County and the FHWA for the temporary closure of the boat ramp and the relocation of the access road (see attachments).

A review of all other NEPA-related impacts was conducted and the findings indicated that there would be no adverse impacts to the human and natural environment. A minor amount of new right of way is needed but no displacements are expected. A General Permit will be needed from the US ACOE.

Traffic will continue to utilize a local detour of approximately 7-miles during construction. The previous average daily traffic was 1,150 VPD.

Part 2 - PCE Type

Select the appropriate Categorical Exclusion from 23 CFR Part 771.117 that best fits the entire project from the drop-down menu. **Reference Appendix A of the PCE Agreement for a more detailed description of each CE contained in 23 CFR 771.117.**

23 CFR 771.117(c)

23 CFR 771.117(d)

Part 3 - Thresholds

To be processed as a Programmatic Categorical Exclusion (PCE) the following conditions must be met in addition to the General Criteria (as outlined in the PCE Agreement between FHWA-SC and SCDOT). Place a "X" in the appropriate box below. If the answer is "Yes" to any of the below criteria, SCDOT will consult with FHWA-SC to determine the appropriate level of NEPA documentation required and forward to FHWA-SC for approval. **\*Reference Part 4 of the Processing form or Section IV of the PCE Agreement for more details and definitions regarding each threshold.**

1.	Involves any unusual circumstances as described in <u>*23 CFR Part 771.117(b)</u>	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
2.	The acquisition of more than <u>*minor amounts</u> of temporary or permanent strips of right-of-way	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No

## Part 3 - Thresholds Continued

3.	Involves acquisitions that result in residential or non-residential displacements	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
4.	Results in capacity expansion of a roadway by adding through lanes	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
5.	Involves construction that would result in <u>*major traffic disruptions</u>	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
6.	Involves <u>*changes in access control</u> requiring FHWA approval	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
7.	An adverse effect determination under Section 106 of the National Historic Preservation Act.	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
8.	Use of Section 4(f) property that cannot be documented with a FHWA <i>de minimis</i> determination or a programmatic Section 4(f) other than the programmatic evaluation for the use of historic bridges	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
9.	Any use of a Section 6(f) property	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
10.	Requires an Individual USACE 404 Permit	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
11.	Requires an Individual U.S. Coast Guard Permit.	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
12.	Work encroaching in a regulatory floodway, adversely affecting the base floodplain (100 yr.) pursuant to E.O. 11988 and 23 CFR Part 650 Subpart A	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
13.	Construction in, across, or adjacent to a river designated as a National Wild and Scenic River	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
14.	Involves an increase of 15 dBA or greater on any noise receptor or abatement measures are found to be feasible and reasonable due to noise impacts	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
15.	May affect and is likely to adversely affect a Federally listed species or designated critical habitat or projects with impacts subject to the BGEPA	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
16.	Involves acquisition of land for hardship, protective purposes, or early acquisition	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
17.	Does not meet the latest Conformity Determination for air quality non-attainment areas (if applicable).	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
18.	Any known or potential <u>major</u> hazardous waste sites within the right-of-way.	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
19.	Is not included in or is inconsistent with the STIP and/or TIP	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No

**Part 3 Continued - Additional criteria to be completed for disposal of excess right-of-way PCE**

1. Is the parcel part of a SCDOT environmental mitigation effort or could it be used for environmental mitigation?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
2. Is there a formal plan to use this parcel for a future transportation project (is it part of an approved LRTP)?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No

**Part 4 - Threshold Definitions**

**Unusual Circumstances (23 CFR Part 771.117)** - Unusual circumstances are defined as:

- a. Significant environmental impacts;
- b. Substantial controversy on environmental grounds;
- c. Significant impact on properties protected by Section 4(f) of the DOT ACT or Section 106 of the National Historic Preservation Act; or
- d. Inconsistencies with any Federal, State, or local law, requirement, or administrative determination relating to the environmental aspects of the action.

**Minor Amount of Right-of-Way (ROW):**

A minor amount of ROW is defined as less than 3 acres per linear mile for linear projects or less than 10 acres of impacts for non-linear projects (eg: intersections, bridges), and no removal of major property improvements. Examples of major improvements include residential and business structures, or the removal of other features which would change the functional utility of the property. Removal of minor improvements, such as fencing, landscaping, sprinkler systems, and mailboxes would be allowed.

**Major Traffic Disruptions:**

A major traffic disruption is defined as an action that would result in: a) adverse effects to through-traffic businesses or schools, b) substantial change in environmental impacts, or c) public controversy associated with the use of the temporary road, detour, or ramp closure.

**Changes in Access Control:**

Requires approval from FHWA for changes in access control on the Interstate system (eg: Interchange Modification Reports or Interchange Justification Reports).

**Additional Comments if Needed:**

Relevant field studies and environmental reviews have been completed to determine that the project meets the criteria set forth in the Programmatic Categorical Exclusion Agreement signed by FHWA-SC and SCDOT. It is understood that any additions/deletions to the project may void environmentally processing the project as presently classified; consequently, any engineering changes must be brought to the attention of SCDOT Environmental Services Office immediately. A copy of this form is included in the project file and one (1) copy has been provided to FHWA.

Prepared By: Henry Phillips Digitally signed by Henry Phillips  
DN: cn=Henry Phillips, o=SC DOT, ou=Environmental Services Office, email=phillipsmh@scdot.org, c=US  
Date: 2018.03.30 09:11:30 -0400

Date: Mar 30, 2018

Primavera:  Yes  No      P2S Date: Oct 2, 2017

Does the project contain commitments?: (if Yes attach to form)  Yes  No

Date: 03/30/2018	 <b>SCDOT</b> NEPA ENVIRONMENTAL COMMITMENTS FORM	 <b>SCDOT</b> ENVIRONMENTAL SERVICES
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Project ID: P031751	County: Dillon	District: District 5	Doc Type: PCE	Total # of Commitments: 5
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Project Name: Replacement of two bridges on S-45 (Lester Road) over the Little Pee Dee River and Little Pee Dee Swamp

The Environmental Commitment **Contractor Responsible** measures listed below **are to be included in the contract and must be implemented**. It is the responsibility of the Program Manager to make sure the Environmental Commitment **SCDOT Responsible** measures are adhered to. If there are questions regarding the commitments listed please contact:

**CONTACT NAME:** Henry Phillips **PHONE #:** (803) 737-1872

### ENVIRONMENTAL COMMITMENTS FOR THE PROJECT

<b>Water Quality</b>	NEPA Doc Ref: PCE	Responsibility: CONTRACTOR
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The contractor will be required to minimize possible water quality impacts through implementation of BMPs, reflecting policies contained in 23 CFR 650B and the Department's Supplemental Specification on Erosion Control Measures (latest edition) and Supplemental Technical Specifications on Seeding (latest edition). Other measures including seeding, silt fences, sediment basins, etc. as appropriate will be implemented during construction to minimize impacts to water quality.

<b>Migratory Bird Treaty Act</b>	NEPA Doc Ref: PCE	Responsibility: CONTRACTOR
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The federal Migratory Bird Treaty Act, 16 USC § 703-711, states that it is unlawful to pursue, hunt, take, capture or kill; attempt to take, capture or kill; possess, offer to sell, barter, purchase, deliver or cause to be shipped, exported, imported, transported, carried or received any migratory bird, part, nest, egg or product, manufactured or not. The South Carolina Department of Transportation (SCDOT) will comply with the Migratory Bird Treaty Act of 1918 in regard to the avoidance of taking of individual migratory birds and the destruction of their active nests.

The contractor shall notify the Resident Construction Engineer (RCE) at least four (4) weeks prior to construction/demolition/maintenance of bridges and box culverts. The RCE will coordinate with SCDOT Environmental Services Office (ESO), Compliance Division, to determine if there are any active birds using the structure. After this coordination, it will be determined when construction/demolition/maintenance can begin. If a nest is observed that was not discovered after construction/demolition/maintenance has begun, the contractor will cease work and immediately notify the RCE, who will notify the ESO Compliance Division. The ESO Compliance Division will determine the next course of action.

The use of any deterrents by the contractor designed to prevent birds from nesting, shall be approved by the RCE with coordination from the ESO Compliance Division. The cost for any contractor provided deterrents will be provided at no additional cost to SCDOT.

<b>Stormwater</b>	NEPA Doc Ref: PCE	Responsibility: CONTRACTOR
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Stormwater control measures, both during construction and post-construction, are required for SCDOT projects with land disturbance and/or constructed in the vicinity of 303(d), TMDL, ORW, tidal, and other sensitive waters in accordance with the SCDOT's MS4 Permit. The selected contractor would be required to minimize potential stormwater impacts through implementation of construction best management practices, reflecting policies contained in 23 CFR 650 B and SCDOT's Supplemental Specifications on Seed and Erosion Control Measures (latest edition).

Project ID: <input type="text" value="P031751"/>	SCDOT NEPA ENVIRONMENTAL COMMITMENTS FORM	
<b>ENVIRONMENTAL COMMITMENTS FOR THE PROJECT</b>		

<b>General Permit</b>	NEPA Doc Ref: <input type="text" value="PCE"/>	Responsibility: <input type="text" value="SCDOT"/>
<p>Impacts to jurisdictional waters will be permitted under a Department of the Army Section 404 permit from the U.S. Army Corps of Engineers. Based on preliminary design, it is anticipated that the proposed project would be permitted under SCDOT's General Permit (GP). The required mitigation for this project will be determined through consultation with the USACE and other resource agencies.</p>		

<b>Cultural Resources</b>	NEPA Doc Ref: <input type="text" value="PCE"/>	Responsibility: <input type="text" value="CONTRACTOR"/>
<p>The contractor and subcontractors must notify their workers to watch for the presence of any prehistoric or historic remains, including but not limited to arrowheads, pottery, ceramics, flakes, bones, graves, gravestones, or brick concentrations during the construction phase of the project, if any such remains are encountered, the Resident Construction Engineer (RCE) will be immediately notified and all work in the vicinity of the discovered materials and site work shall cease until the SCDOT Archaeologist directs otherwise.</p>		

<input type="text"/>	NEPA Doc Ref: <input type="text" value="Page: XX Paragraph: XX"/>	Responsibility: <input type="text"/>
<p>          </p>		



Section 4(f) *De minimis* Finding Use Form Continued:

b. Describe the use of the land from the resource and identify amount of the resource to be used (acres):

As a safety precaution, the boat ramp and access road would be closed during construction. A portion of the access road would also be relocated and improved as part of the project to provide a safe distance of separation from the roadway. Approximately 1/4 of an acre will be needed from the resource for future bridge maintenance.

2. Does the project not adversely affect the qualities, activities, features, or other attributes of the resource that qualify it for protection under Section 4(f)?  Yes  No

3. Has the agency with jurisdiction over the resource concurred in writing with the FHWA's and/or SCDOT's determination that the project will not adversely affect the resource and is the concurrence attached?  Yes  No

a. Identify the agency with jurisdiction:

4. Has the agency with jurisdiction over the resource been informed of FHWA's and/or SCDOT's intent to make a *de minimis* finding?  Yes  No

b. If yes, attach the correspondence. Correspondence attached?  Yes  No

5. Has the public been afforded an opportunity to review and comment on the effects of the project on the protected activities, features, and attributes of the resource?  Yes  No

a. Identify the opportunity for public comment:

Notice of opportunity for public meeting was advertised in local newspapers (attached). No replies to the notices were received.

**II. For Historic Properties:**

1. Does the project have a "No Adverse Effect" or a "No Historic Properties Affected" on the historic property as defined by Section 106 of the National Historic Preservation Act and its regulations?  Yes  No

a. Identify the effects determination for the resource:

b. Describe the use of land from resource and identify the amount of the resource to be used (acres):

2. Has the SHPO and ACHP, if participating in the Section 106 consultation, concurred in writing with the effects determination?  Yes  No

Section 4(f) *De minimis* Finding Use Form Continued:

a. If so, attach the written concurrence. Concurrence attached?  Yes  No  
*(Receipt of the SHPO's concurrence with the FHWA's finding, or a non-response after the specific time qualifies as the necessary correspondence from the official with jurisdiction over Section 106 properties).*

3. Has the SHPO and ACHP, if participating in the Section 106 consultation, been informed of FHWA's and/or SCDOT's intent to make a *de minimis* impact/no adverse finding based on their written concurrence in the Section 106 determination?  Yes  No

a. If yes, attach correspondence. Correspondence attached?  Yes  No

4. Have the views of the consulting parties participating in the Section 106 consultation been considered?  Yes  No

a. Attach any relevant correspondence and any necessary responses to consulting party comments. Correspondence attached?  Yes  No

**III. Alternatives Analysis:**

1. Summarize why the use of the property from the resource cannot be avoided.

Project needs would not be met.

Explain:

The purpose of the proposed project is to replace two of the S-45 (Lester Road) bridges over the Little Pee Dee River. Improvements to the roadway approaches to the bridge are also necessary to accommodate the new bridges. Due to the location of the boat ramp and access road, each of the "build" alternatives would require the temporary closure and partial relocation of the resource as a safety precaution. Therefore, no prudent and feasible alternative would avoid use of the resource.

Substantial impacts to other environmental/cultural/social resources would result.

Explain:

Project complexity would increase resulting in greater construction and maintenance costs.

Explain:

Other.

Explain:




2. Summarize the measures to minimize harm. This would include, if applicable, any mitigation measures.

The SCDOT would provide advance notice to the public of the boat ramp closure. Additionally, the project would only close access to the resource for the length of time necessary to complete the bridge replacement project, and intends to reopen the boat ramp and access road following construction.


IV. Summary and Determination:

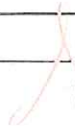
The project involves a *de minimis*/no adverse use on the Section 4(f) property as evidence with a "No Adverse Effect" finding from the SHPO or as evidence through the minimization of harm to a public park, recreation land or wildlife and waterfowl refuge as a result of mitigation to or avoidance of impacts to the qualifying characteristics and/or the functions of the resource.

Based on the scope of the undertaking; the fact that the undertaking does not adversely affect the function/qualities of the Section 4(f) resource on a permanent or temporary basis; and with agreement from the official with jurisdiction, the proposed action constitutes a *de minimis*/no adverse use and the alternatives analysis is considered satisfied.

Preparer: Henry Phillips  Date: 2/21/2018

Program Manager: Joe Sturm Date: 2/21/2018

Environmental Manager: Henry Phillips  Date: 2/21/2018

FHWA: JEFFREY S BELCHER  Date:   
Digitally signed by JEFFREY S BELCHER  
DN: c=US, o=U.S. Government, ou=FHWA  
FHWA/Columbia/SC, ou=DOT  
FHWA/Columbia/SC, cn=JEFFREY S BELCHER  
Date: 2018.02.22 10:23:06 -05'00'



South Carolina  
Department of Transportation

December 28, 2017

Mr. Rodney Berry, County Administrator  
Dillon County  
PO Box 449  
Dillon, SC 29536

Re: Section 4(f) *de minimis* Finding for the temporary closure of the existing Little Pee Dee River Boat Ramp and the partial relocation of the Boat Ramp Access Road during construction of the new Lester Road (S-45) Bridges over the Little Pee Dee River in Dillon County (SCDOT Project P031751)

Dear Mr. Berry:

The South Carolina Department of Transportation (SCDOT) plans to replace the two storm-damaged and structurally deficient Lester Road (S-45) Bridges over the Little Pee Dee River, located in Dillon County. The scope of the project includes the replacement of the bridges on their existing alignment and improvements to the roadway approaches and the area between both bridges. The project proposes to keep the bridges closed during construction. Traffic would be temporarily detoured, approximately 7 miles, utilizing S-57, State Park Road, and Bermuda Road. The detour is anticipated to last a period of 12 to 18 months. A Programmatic Categorical Exclusion is being developed for the project to evaluate and document the potential for impacts to the human and natural environment.

Additional alternatives were considered for the proposed project. The "no build" alternative was considered; however, this alternative would not satisfy the purpose and need of the project. Other "build" alternatives were also evaluated, but each would result in a higher impact to the surrounding environment. Due to the low average daily traffic (ADT) along S-45 (approximately 1,150 vehicles per day), available detour routes, and the lowest environmental and right-of-way (R/W) impacts, replacement on the existing alignment is being developed as the Preferred Alternative (see attachment).

An existing boat ramp is located adjacent to the northwest side of one of the S-45 bridges proposed for replacement. Access to the boat ramp is provided from S-45 via a gravel road, approximately 200 feet in length. As a safety precaution, the boat ramp and access road would be closed during construction. A portion of the access road would also be relocated and improved as part of the project to provide a safe distance of separation from the S-45 roadway.

Post Office Box 191  
955 Park Street  
Columbia, SC 29202-0191



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*attributes that qualify the boat ramp and access road for protection under Section 4(f). I have also been informed that, based on my concurrence, the FHWA intends to make a de minimis finding regarding impacts to the resource, thus satisfying the requirements of Section 4(f).*

Signature: *Rodney Berry* Date: *Jan 12, 2018*

Print Name and Title: *Rodney Berry Dillon County Administrator*

Following signing and dating of this letter, please return a copy within 10 days of the date of this letter to the South Carolina Department of Transportation, Environmental Services Office, Room 509.

Sincerely,

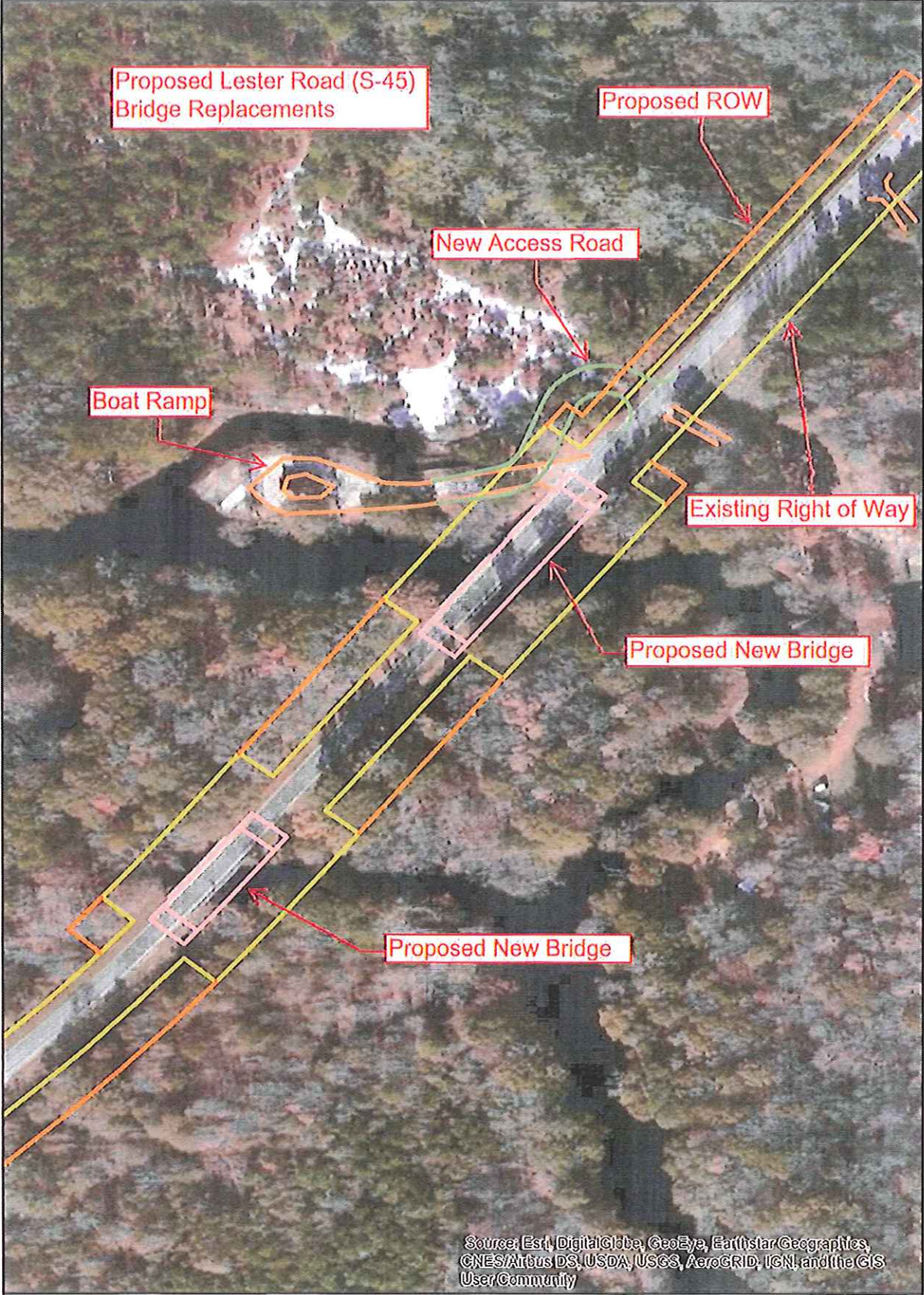
*Henry Phillips*

Henry Phillips  
NEPA Division Manager

cc: Brian Dix, P.E., SCDOT  
Kyle Berry, SCDOT District 5  
Shane Belcher, FHWA

Attachment





Affidavit of Publication  
DILLON, S.C.

The Dillon Herald

STATE OF SOUTH CAROLINA,  
County of Dillon

Personally appeared before me \_\_\_\_\_

*Alison C. Sawyer*

who being duly sworn says that *she*

is *an associate*

of The Dillon Herald, a newspaper published

weekly in the City and State aforesaid, and

that the *notice to citizens of*  
*Dillon County*

*replace S-45 (Lester Road)*  
*bridges over Little Pee Dee*  
*River*

a copy of which is *attached*

was published in said newspaper *1* time(s)

to wit: *Alison C. Sawyer*

On the *25<sup>th</sup>* day of *January*, 20*17*

On the \_\_\_\_\_ day of \_\_\_\_\_ 20\_\_\_\_

On the \_\_\_\_\_ day of \_\_\_\_\_ 20\_\_\_\_

On the \_\_\_\_\_ day of \_\_\_\_\_ 20\_\_\_\_

Sworn to and subscribed before me this

*25<sup>th</sup>* day of *January*, 20*17*

*Johnnie A. Daniels* L.S.

Notary Public for South Carolina.

My Commission Expires 8-17-2021.

Opportunity for Public Meeting Notice

NOTICE TO CITIZENS OF DILLON COUNTY:

All interested persons are advised that the South Carolina Department of Transportation (SCDOT) proposes to replace the S-45 (Lester Road) bridges over the Little Pee Dee River, located in Dillon County near Dillon, South Carolina. These bridges are now classified as structurally deficient due to Hurricane Matthew, making it eligible for replacement through FEMA and State funding.

The SCDOT is proposing to replace these bridges on or near the existing alignment; therefore, closure of these bridges would be required during construction. The net detour length is approximately 7 miles, and would utilize S-57, State Park Road, and Bermuda Road. The detour is anticipated to last a period of 12 to 18 months once construction begins. New right-of-way will be needed for the proposed project; however, no displacements are anticipated.

Construction of the project will also require the temporary closure of the adjacent boat ramp, a public facility owned by Dillon County. The boat ramp and access road would be closed during construction and a portion of the access road would be relocated and improved to provide a safe distance of separation from the replaced bridge. It is the SCDOT's intent to restore access and full use of the boat ramp after construction of the proposed project.

As a recreational resource owned by Dillon County, the boat ramp is afforded special protections under Section 4(f) of the USDOT Act. SCDOT proposes the temporary closure of the boat ramp and access road would not adversely impact the resource; therefore, a Section 4(f) de minimis finding is being proposed. De minimis impacts on publicly-owned parks, recreation areas, and wildlife and waterfowl refuges are defined as those that do not "adversely affect the activities, features and attributes" of the Section 4(f) resource.

Any interested person may request that a public meeting be held on the project with respect to the proposed de minimis finding on the Section 4(f) resource or any possible social, economic and environmental effect of the proposal on the community. This request must be submitted in writing to Mr. Bener Amado, P.E., Program Manager, SCDOT, P.O. Box 191, Columbia, South Carolina, 29202, and received by SCDOT no later than February 9th, 2018. It is requested that your letter contain a telephone number where you may be contacted between 8:30 am and 5:00 pm. In the event such a request is received and a public meeting held, a future notice of the time and place of the meeting will be published. Related maps, drawings, documents, and other pertinent information are available for public review at SCDOT Headquarters, 955 Park Street, Columbia, SC 29201. Additional information regarding this project may also be obtained by calling Program Manager Bener Amado at 803-737-0181.

*Betty Gray*  
*S. C. Dept. of Transportation*  
Environmental Management

JAN 29 2018

RECEIVED

Biological Survey of S-45  
Bridge Replacements Project  
Dillon County, S.C.  
P031751  
November 1, 2017

Pursuant to Section 7 of the Endangered Species Act a field survey was conducted within the project corridor. The following list of threatened (T) and endangered (E) species was obtained from the U.S. Fish and Wildlife Service:

**Bald and Golden Eagle Protection Act (BGEPA)**

Bald eagle (*Haliaeetus leucocephalus*)

**Animals**

Red-cockaded woodpecker (*Picoides borealis*) - E

Shortnose sturgeon (*Acipenser brevirostrum*) - E

Atlantic sturgeon (*Acipenser oxyrinchus*) – E

**At-Risk Species**

American eel (*Anguilla rostrata*)

Blueback herring (*Alosa aestivalis*)

Robust redhorse (*Moxostoma robustum*)

Rafinesque's big-eared bat (*Corynorhinus rafinesquii*)

Tri-colored bat (*Perimyotis subflavus*)

Carolina-birds-in-a-nest (*Macbridea caroliniana*)

Yellow pond lily (*Nuphar lutea* ssp. *sagittifolia*)

Spotted turtle (*Clemmys guttata*)

**Methods**

The project area was examined by GIS and field reconnaissance methods on October 4, 2017. Habitats surveyed were determined by each species' ecological requirements.

**Results**

The project consists of replacing two bridges on S-45 over the Little Pee Dee River in Dillon County, South Carolina. Land use in the vicinity of the project includes residential areas, silviculture areas, a public boat ramp, and large relatively undisturbed river floodplain forest. Habitat types within the project corridor consist of palustrine forested wetlands dominated by large canopy tree species such as water oak (*Quercus nigra*), laurel oak (*Quercus laurifolia*), bald cypress (*Taxodium distichum*) and red maple (*Acer rubrum*). The forested upland areas are dominated loblolly pine (*Pinus taeda*) and have a dense understory of species such as sweetgum (*Liquidambar styraciflua*), water oak (*Quercus nigra*), and red maple (*Acer rubrum*).

According to the Heritage Trust database of endangered, threatened and rare species, there are no occurrences of any rare or threatened species in the vicinity of the project. The bald eagle nests near large bodies of water where it can fish. Although the Little Pee Dee River flows through the project area, no bald eagles or their nests were observed during the survey. The red-cockaded woodpecker prefers to nest in cavities within stands of pines over 80 years old that have a very open understory. There is no habitat for the red-cockaded woodpecker within or near the project area. The shortnose and Atlantic sturgeons are found in the Atlantic Ocean and some of the larger river systems that drain into it. The area of the Little Pee Dee River where the project is located is not considered critical habitat for either sturgeon species. The upstream areas of the Little Pee Dee River do not experience the higher flows that are preferred by these species. Additionally, these species have not been observed in this area of the Little Pee Dee River. No endangered or threatened species were observed during the survey.

Based on lack of suitable habitat and/or no observations of the listed species in the vicinity of the project, results of the threatened and endangered species study indicate that the proposed action will have no effect upon any threatened or endangered species or critical habitats currently listed by the USFWS.

*Chris Beckham*

November 1, 2017

Date: 11/21/17

### PERMIT DETERMINATION

FROM Chris Beckham COMPANY SCDOT

CONTACT INFO (phone and/or email) beckhamjc@scdot.org

SCDOT PROJECT ENGINEER Bener Amado

TO <select one> \_\_\_\_\_

Project Description Replace 2 bridges on Lester Road over the Little Pee Dee River

Route or Road No. S-45 County Dillon

CONST. PIN P031751 OTHER PINS or STRUCTURE # \_\_\_\_\_

RESPONSE:

It has been determined that no permits are required because:  
\_\_\_\_\_

The following permit(s) is/are necessary:  
(Please check which type(s) of permit the project will need)

USACE Permit  GP  IP  401  JD

OCRM Permit  CAP  CZC

Navigable  SCDHEC NAVGP -- if checked a USCG and/or USACE navigable permit may also be required, but will be determined during the NEPA and Permitting stages.

Other \_\_\_\_\_

Water Classification: FW *Print and attach the SCDHEC water quality report*

303(d) listed  no  yes, for \* fish consumption due to mercury

TMDL developed  no  yes, for \* \_\_\_\_\_

\*List all that apply using the SCDHEC abbreviations

Comments: This permit determination is based on replacing the bridges on alignment.

The determination above was based on the most recently available information at the time. This is a preliminary determination and is subject to change if the design of the project is modified.

Chris Beckham  
Digitally signed by Chris Beckham  
DN: cn=Chris Beckham, o=SCDOT, ou=ESO,  
email=beckhamjc@scdot.org, c=US  
Date: 2017.11.21 09:27:18 -0500  
Biologist, SCDOT/Consultant

11/21/17  
Date





3/30/2018

## Watershed and Water Quality Information

### General Information

Applicant Name:	Permit Type: MS4
Latitude:	Longitude:
MS4 Designation:	Monitoring Station: PD-618
Within Coastal Critical Area:	Water Classification (Provisional): FW
Waterbody Name: LITTLE PEE DEE RIVER	Entered Waterbody Name:

### Parameter Descriptions

NH3N	Ammonia	FC	Fecal Coliform
CR	Chromium	FCB	Fecal Coliform (Shellfish)
CU	Copper	BIO	Macroinvertebrates (Bio)
HG	Mercury	TP	(Lakes) Phosphorus
NI	Nickel	TN	(Lakes) Nitrogen
PB	Lead	CHLA	(Lakes) Chlorophyll a
ZN	Zinc	ENTERO	(Beach) Enterococcus
DO	Dissolved Oxygen	HGF	Mercury (Fish)
PH	pH	PCB	PCB (Fish)

### Impaired Status (downstream sites)

Station	NH3N	CR	CU	HG	NI	PB	ZN	DO	PH	TURBIDITY	ECOLI	FCB	BIO	TP	TN	CHLA	ENTERO	HGF	PCB
PD-618	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	N	X

F = Standards Fully Supported      A = Assessed at Upstream Station      T = Within TMDL Approved Watershed  
 N = Standards Not Supported      X = Parameter Not Assessed at Station

### Parameters to be addressed (those not supporting standards)

--

### Fish Consumption Advisory

HGF
-----

### TMDL Information - TMDL Parameters to be addressed

In TMDL Watershed: No	TMDL Site:
TMDL Report No:	TMDL Parameter:
TMDL Document Link:	

November 14, 2017

2018-66-3

Dr. Adrienne Daggett  
Transportation Review Coordinator  
South Carolina Department of Archives and History  
8301 Parklane Road  
Columbia, SC 29223-4905

OK  
12/5/17  
WD

**RE: Cultural Resources Survey for the S-45 (Lester Road) Bridge Replacements, Dillon County, South Carolina**

Dear Dr. Daggett:

The Department's cultural resources staff has completed an intensive cultural resources survey of the Area of Potential Effect (APE) of the proposed replacement of two bridges in **Dillon County**, South Carolina. Two copies of the report are enclosed for your review and comment. The enclosed reports incorporate suggestions made by your office on November 13, 2017.

Two alternatives are being considered for the replacement of the bridges: replacement on existing alignment or replacement on a new alignment adjacent to and immediately to the southeast of the present roadway. The cultural resources survey covered the area that may be impacted if either alternative is chosen. The archaeological area of potential effect (APE) for the survey consisted of land that might be acquired as new right of way for the project as well as land within the existing right of way that may be impacted by the proposed undertaking. The architectural APE consisted of a 300 foot buffer placed around the archaeological APE.

Background research indicated that no previously recorded archaeological or architectural resources are located within the project study area.

The cultural resources survey resulted in the identification of no new archaeological sites and no new above-ground resources.

Based on the results of background research and field investigations, the Department has determined that **no historic properties will be affected** by the proposed undertaking.

It is requested that you review the enclosed material and, if appropriate, indicate your concurrence in the Department's findings. Please respond within 30 days if you have any objections or if you have need of additional information.



RECEIVED  
DEC 13 2017  
Environmental Management  
SCDOT

Sincerely,



Tracy Martin  
Archaeologist

TAM:tam

Enclosures: Cultural resources survey report

I (~~do not~~) concur in the above determination.

Signed: Cathy Rogers for Wenonah Haire Date: 12/7/17

cc: Shane Belcher, FHWA

cc: Wenonah G. Haire, Catawba Nation THPO  
Keith Derting, SCIAA



November 14, 2017

Dr. Adrienne Daggett  
Transportation Review Coordinator  
South Carolina Department of Archives and History  
8301 Parklane Road  
Columbia, SC 29223-4905

RECEIVED  
NOV 16 2017  
SC Department of  
Archives & History

**RE: Cultural Resources Survey for the S-45 (Lester Road) Bridge Replacements, Dillon County, South Carolina**

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The Department's cultural resources staff has completed an intensive cultural resources survey of the Area of Potential Effect (APE) of the proposed replacement of two bridges in **Dillon County**, South Carolina. Two copies of the report are enclosed for your review and comment. The enclosed reports incorporate suggestions made by your office on November 13, 2017.

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It is requested that you review the enclosed material and, if appropriate, indicate your concurrence in the Department's findings. Please respond within 30 days if you have any objections or if you have need of additional information.

RECEIVED  
NOV 21 2017  
Environmental Management  
SCDOT



Sincerely,



Tracy Martin  
Archaeologist

TAM:tam

Enclosures: Cultural resources survey report

I ~~(do not)~~ concur in the above determination.

Signed: \_\_\_\_\_

Date: 11/16/2017

ec: Shane Belcher, FHWA

cc: Wenonah G. Haire, Catawba Nation THPO  
Keith Derting, SCIAA



**From:** [Overton, Randall D CIV](#)  
**To:** [Johnson, Ken - FHWA](#)  
**Cc:** [Phillips, Henry](#); [Belcher, Jeffery - FHWA](#); [Herrell, Michelle \(FHWA\)](#); [Williams, Stephen J AETC](#); [D07-DG-DISTRICTSTAFF-DPB](#)  
**Subject:** RE: USCG Permit Exclusion Request  
**Date:** Wednesday, March 28, 2018 2:46:57 PM  
**Attachments:** [USCG Permit Exclusion Checklist for Washout Bridge S-45 Packet.pdf](#)  
[USCG Permit Exclusion Checklist for Main Bridge S-45 Packet.pdf](#)

---

**\*\*\* This is an EXTERNAL email. Please do not click on a link or open any attachments unless you are confident it is from a trusted source. \*\*\***

Ken,

Thank you for the email for the Lester Road S-45 Bridges in Dillon County, SC. The Coast Guard concurs with your determination that a Coast Guard bridge permit is not required for the two bridges crossing the Little Pee Dee River and the Little Pee Dee River washout.

Randy

Randall Overton, M.P.A.  
Chief, Permits Division  
Coast Guard Seventh District Bridge Administration  
909 SE 1st Ave Suite 432  
Miami, FL 33131  
(305) 205-0795 Cell  
(305) 415-6736 Office

---

**From:** Johnson, Jken (FHWA) [mailto:Jken.Johnson@dot.gov]  
**Sent:** Monday, March 26, 2018 3:19 PM  
**To:** Overton, Randall D CIV <Randall.D.Overton@uscg.mil>  
**Cc:** Phillips, Henry (PhillipsMH@scdot.org) <PhillipsMH@scdot.org>; Belcher, Jeffrey (FHWA) <Jeffrey.Belcher@dot.gov>; Herrell, Michelle (FHWA) <michelle.herrell@dot.gov>  
**Subject:** [Non-DoD Source] FW: USCG Permit Exclusion Request

Randall,

See attached SCDOT attachments for two bridge replacement projects on S-45, over the Little Pee Dee River, located in Dillon County. In accordance with CFR 23, Section 650, we have determined that a USCG permit is not required. Both locations are non-tidal and not subjected to commercial traffic. Please let me know if you disagree within thirty days of receiving this email. Thanks for your cooperation.

Ken Johnson, MSCE, PE  
Division Structural Engineer  
FHWA SC Division  
803-465-1947

---

**From:** Phillips, Henry [<mailto:PhillipsMH@scdot.org>]  
**Sent:** Monday, March 26, 2018 2:23 PM  
**To:** Johnson, Jken (FHWA) <[Jken.Johnson@dot.gov](mailto:Jken.Johnson@dot.gov)>  
**Cc:** Belcher, Jeffrey (FHWA) <[Jeffrey.Belcher@dot.gov](mailto:Jeffrey.Belcher@dot.gov)>; Herrell, Michelle (FHWA) <[michelle.herrell@dot.gov](mailto:michelle.herrell@dot.gov)>; Cooper, Christopher B. <[CooperCB@scdot.org](mailto:CooperCB@scdot.org)>  
**Subject:** USCG Permit Exclusion Request

Attached are two packets.

One is for the S-45 (Lester Road) Main Bridge over the Little Pee Dee River in Dillon, SC.  
Second is for the S-45 (Lester Road) Washout Bridge over the Little Pee Dee River in Dillon, SC.

Let me know if you need additional information.

Henry Phillips  
NEPA Division Manager  
South Carolina Department of Transportation  
Environmental Services  
955 Park Street  
Columbia, South Carolina 29201  
Direct Line: 803-737-1872  
[phillipsmh@scdot.org](mailto:phillipsmh@scdot.org)



**FHWA South Carolina Division**  
U.S. Coast Guard Permit Exclusion Request Checklist

State File #	P031751	Fed Project #	P031751	PIN	31751	Date	3/26/2018	County	Dillon
Project Description	S-45 (Lester Rd) Washout Bridge Replacement over Little Pee Dee River								
Tidal or Non-Tidal	Non-Tidal	Contact Person	Henry Phillips (SCDOT)			Phone Number	803-737-1872		

**Form Purpose:** The FHWA has the responsibility under 23 U.S.C. 144(h) to determine that a USCG permit is not required for bridge construction. This determination shall be made at an early stage of project development so that any necessary coordination can be accomplished during environmental processing (23 CFR Part 650.805).

**Form Instructions:** This checklist should be completed when requesting a Title 23 Coast Guard Permit Exclusion. The exclusion request should be submitted prior to completion of the NEPA process. When an exclusion is requested SCDOT should send a letter to FHWA, addressed to the Division Administrator requesting such, with the appropriate information listed below. If the FHWA Structural Engineer agrees that an exclusion is appropriate, a letter will be sent to the U.S. Coast Guard indicating that a permit is not required. The letter will allow 30 days for a U.S. Coast Guard rebuttal.

**I. For Non-Tidal Waterways:**

The following condition must be met to obtain a Title 23 Coast Guard Permit Exclusion. A "no" response will result in the need for a USCG Permit.

1.	If the non-tidal waterway is navigable, is not currently utilized by commercial or recreational vessels greater than 21 feet in length, and will not be used as such, once improvements (increased vertical and/or horizontal clearance) have been constructed, a USCG permit is not required.	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Information required by FHWA for <b>non-tidal</b> waterways to Issue a Title 23 Permit Exclusion. This data will need to be provided with exclusion request.		Included with request	
1.	Location Map	<input checked="" type="checkbox"/>	
2.	Photo of existing bridge/location from the waterway	<input checked="" type="checkbox"/>	
3.	Bridge profile at crossing	<input checked="" type="checkbox"/>	
4.	Depth of water at normal pool	<input checked="" type="checkbox"/>	
5.	Vertical clearance at normal pool	<input checked="" type="checkbox"/>	
6.	Horizontal clearance at normal pool	<input checked="" type="checkbox"/>	
7.	Type of vessel traffic (commercial or recreational) and whether there are vessels > 21 feet utilizing the waterway.	<input checked="" type="checkbox"/>	

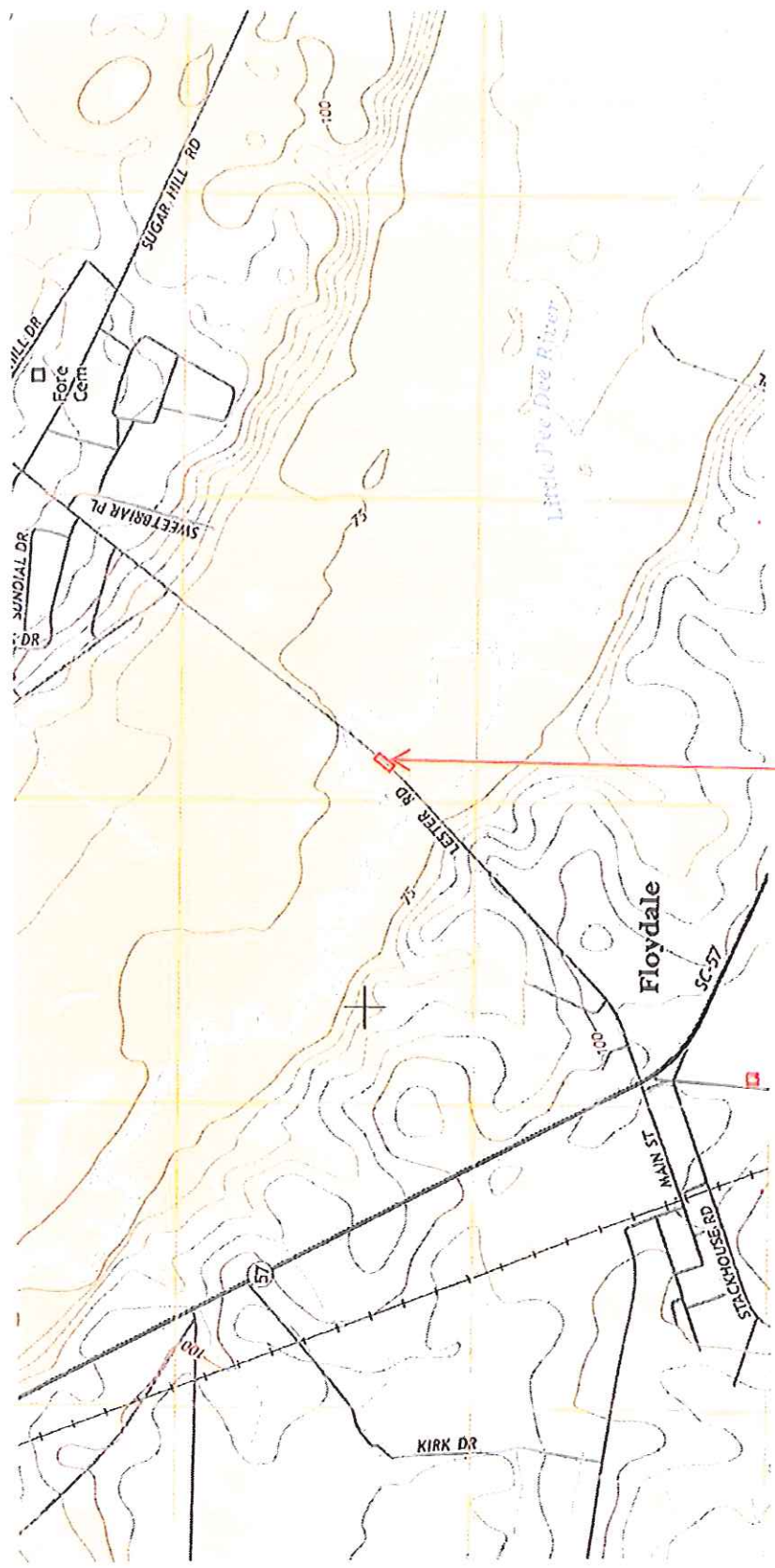


## II. For Tidal Waterways:

The following condition must be met to obtain a Title 23 Coast Guard Permit Exclusion. A "no" response will result in the need for a USCG Permit.

1. If the tidal waterway is navigable, is not currently utilized by commercial or recreational vessels greater than 21 feet in length, and will not be used as such, once improvements (increased vertical and/or horizontal clearance) have been constructed, a USCG permit is not required.	<input type="checkbox"/> Yes	<input type="checkbox"/> No
Information required by FHWA for tidal waterways to issue a Title 23 Permit Exclusion. This data will need to be provided with exclusion request.	Included with request	
1. Location Map	<input type="checkbox"/>	
2. Photo of existing bridge/location from the waterway	<input type="checkbox"/>	
3. Bridge profile at crossing	<input type="checkbox"/>	
4. Depth of water at high and low tides	<input type="checkbox"/>	
5. Vertical clearance at high and low tides	<input type="checkbox"/>	
6. Horizontal clearance at high and low tides	<input type="checkbox"/>	
7. Type of vessel traffic (commercial or recreational) and whether there are vessels > 21 feet utilizing the waterway.	<input type="checkbox"/>	

PROJECT LOCATION MAP  
S-45 (LESTER ROAD) BRIDGE REPLACEMENT  
OVER LITTLE PEE DEE SWAMP, DILLON COUNTY



Washout Site Location  
Sta 45+32.26 To Sta 46+52.26

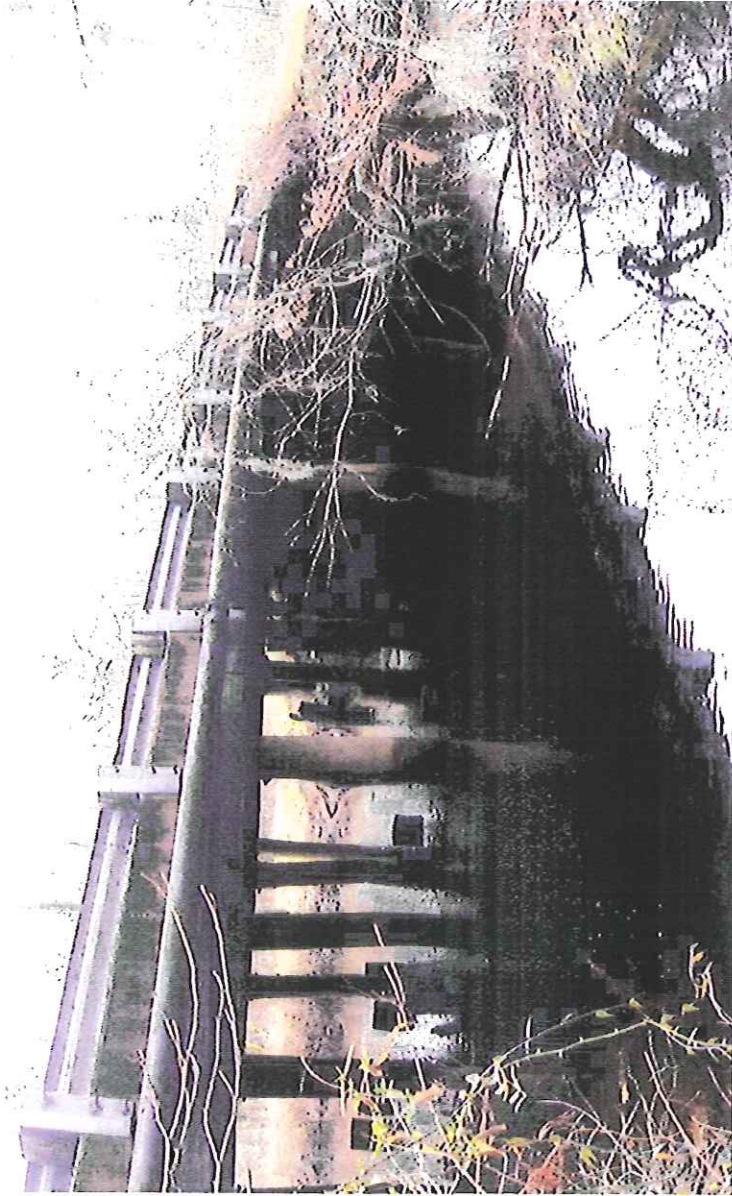
**S-45 (Lester Rd) Bridge Replacement over Little Pee Dee Swamp, Dillon County, South Carolina, (PIN # 31751)**

---

**Date 3/1/2018**

**Description:**

View of the existing S-45 Washout Bridge over Little Pee Dee Swamp, looking upstream. Photograph is taken from North East corner of river tributary bank.



**S-45 (Lester Rd) Bridge Replacement over Little Pee Dee Swamp, Dillon County, South Carolina, (PIN # 31751)**



**Date 3/1/2018**

**Description:**

View of the existing S-45 Washout Bridge over Little Pee Dee Swamp, looking upstream. Photograph is taken from South West corner of river tributary bank.

**S-45 (Lester Rd) Bridge Replacement over Little Pee Dee Swamp, Dillon County, South Carolina, (PIN # 31751)**

---

**Date 3/1/2018**

**Description:**

View of the existing S-45 Washout Bridge over Little Pee Dee Swamp, looking downstream. Photograph is taken from North East corner of river tributary bank.



**S-45 (Lester Rd) Bridge Replacement over Little Pee Dee Swamp, Dillon County, South Carolina, (PIN # 31751)**

**Date 3/1/2018**

**Description:**

View of the existing S-45 Washout Bridge over Little Pee Dee Swamp, looking downstream. Photograph is taken from South West corner of river tributary bank.





*S-45 (Lester Rd) Bridge Replacement over Little Pee Dee Swamp, Dillon County, SC, (PIN # 31751)*

FHWA US Coast Guard Permit Exclusion Request Checklist

Additional Information :

- Depth of Water at Normal Pool :
  - 12.5 feet as observed on site visit conducted 1/17/2017
- Vertical Clearance at Normal Pool :
  - 5.4 feet as observed on site visit conducted 1/17/2017
- Horizontal Clearance at Normal Pool :
  - 62.2 feet as observed on site visit conducted 1/17/2017
- Type of Vessel Traffic (commercial or recreational) and whether there are vessels > 21 feet utilizing the waterway:
  - Recreational vessels are known to use the waterway, including canoes, kayaks, and small fishing vessels. Due to the limited depth of water within the Little Pee Dee River, no commercial vessels or recreational vessels greater than 21 feet are known to utilize the waterway.





**FHWA South Carolina Division**  
U.S. Coast Guard Permit Exclusion Request Checklist

State File #	P031751	Fed Project #	P031751	PIN	31751	Date	3/26/2018	County	Dillon
Project Description	S-45 (Lester Rd) Main Bridge Replacement over Little Pee Dee River								
Tidal or Non-Tidal	Non-Tidal	Contact Person	Henry Phillips (SCDOT)			Phone Number	803-737-1872		

**Form Purpose:** The FHWA has the responsibility under 23 U.S.C. 144(h) to determine that a USCG permit is not required for bridge construction. This determination shall be made at an early stage of project development so that any necessary coordination can be accomplished during environmental processing (23 CFR Part 650.805).

**Form Instructions:** This checklist should be completed when requesting a Title 23 Coast Guard Permit Exclusion. The exclusion request should be submitted prior to completion of the NEPA process. When an exclusion is requested SCDOT should send a letter to FHWA, addressed to the Division Administrator requesting such, with the appropriate information listed below. If the FHWA Structural Engineer agrees that an exclusion is appropriate, a letter will be sent to the U.S. Coast Guard indicating that a permit is not required. The letter will allow 30 days for a U.S. Coast Guard rebuttal.

**I. For Non-Tidal Waterways:**

The following condition must be met to obtain a Title 23 Coast Guard Permit Exclusion. A "no" response will result in the need for a USCG Permit.

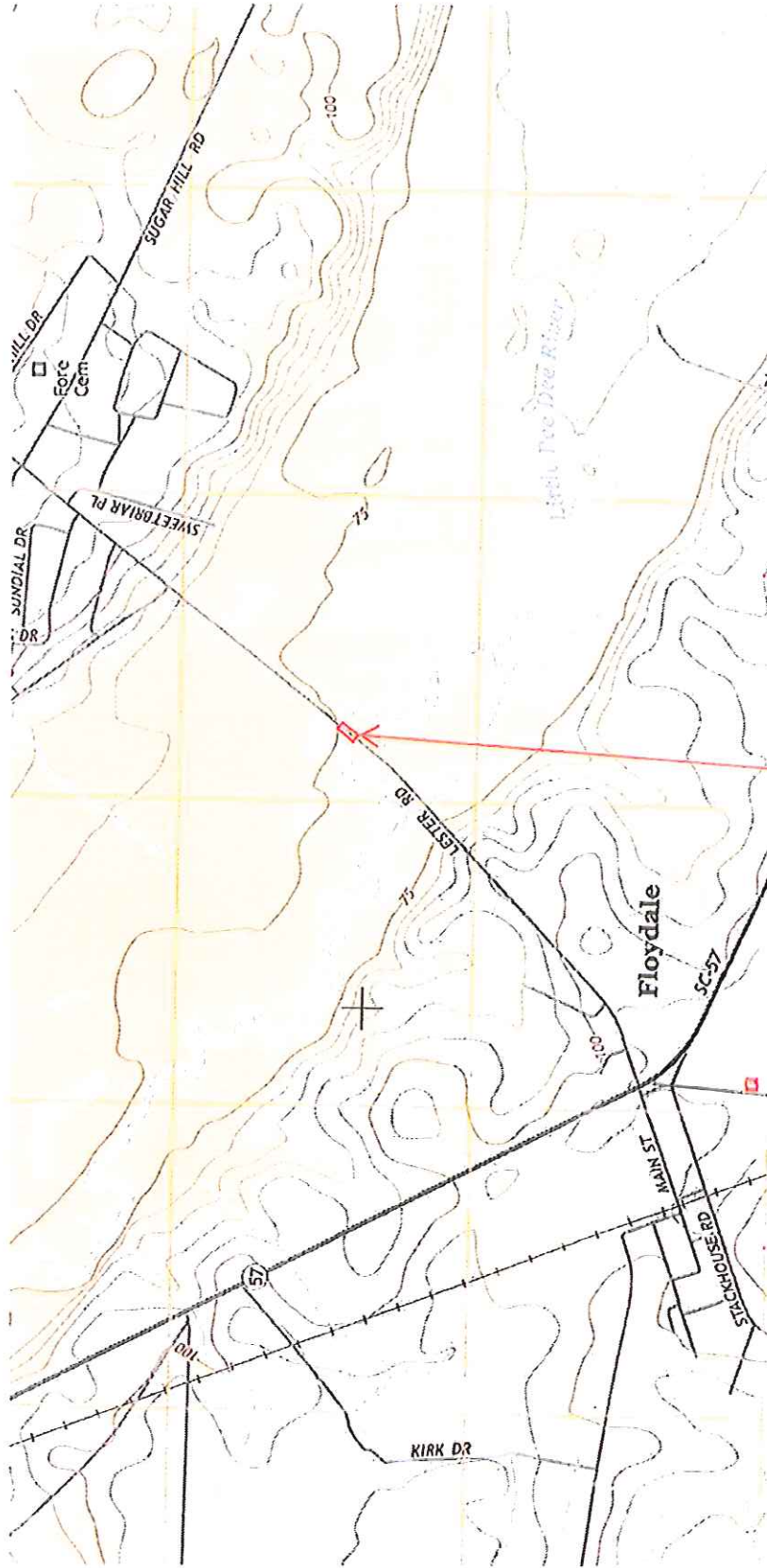
1.	If the non-tidal waterway is navigable, is not currently utilized by commercial or recreational vessels greater than 21 feet in length, and will not be used as such, once improvements (increased vertical and/or horizontal clearance) have been constructed, a USCG permit is not required.	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Information required by FHWA for non-tidal waterways to issue a Title 23 Permit Exclusion. This data will need to be provided with exclusion request.		Included with request	
1.	Location Map	<input checked="" type="checkbox"/>	
2.	Photo of existing bridge/location from the waterway	<input checked="" type="checkbox"/>	
3.	Bridge profile at crossing	<input checked="" type="checkbox"/>	
4.	Depth of water at normal pool	<input checked="" type="checkbox"/>	
5.	Vertical clearance at normal pool	<input checked="" type="checkbox"/>	
6.	Horizontal clearance at normal pool	<input checked="" type="checkbox"/>	
7.	Type of vessel traffic (commercial or recreational) and whether there are vessels > 21 feet utilizing the waterway.	<input checked="" type="checkbox"/>	

## II. For Tidal Waterways:

The following condition must be met to obtain a Title 23 Coast Guard Permit Exclusion. A "no" response will result in the need for a USCG Permit.

1. If the tidal waterway is navigable, is not currently utilized by commercial or recreational vessels greater than 21 feet in length, and will not be used as such, once improvements (increased vertical and/or horizontal clearance) have been constructed, a USCG permit is not required.	<input type="checkbox"/> Yes	<input type="checkbox"/> No
Information required by FHWA for tidal waterways to issue a Title 23 Permit Exclusion. This data will need to be provided with exclusion request.	Included with request	
1. Location Map	<input type="checkbox"/>	
2. Photo of existing bridge/location from the waterway	<input type="checkbox"/>	
3. Bridge profile at crossing	<input type="checkbox"/>	
4. Depth of water at high and low tides	<input type="checkbox"/>	
5. Vertical clearance at high and low tides	<input type="checkbox"/>	
6. Horizontal clearance at high and low tides	<input type="checkbox"/>	
7. Type of vessel traffic (commercial or recreational) and whether there are vessels > 21 feet utilizing the waterway.	<input type="checkbox"/>	

PROJECT LOCATION MAP  
S-45 (LESTER ROAD) BRIDGE REPLACEMENT  
OVER LITTLE PEE DEE RIVER, DILLON COUNTY



Main Bridge Site Location  
Sta 49+60.44 To Sta 51+40.44

**S-45 (Lester Rd) Bridge Replacement over Little Pee Dee River, Dillon County, South Carolina, (PIN # 31751)**



**Date 3/1/2018**

**Description:**

View of the existing S-45 Main Bridge over

Little Pee Dee River, looking upstream.

Photograph is taken from North East corner  
of river bank.

**S-45 (Lester Rd) Bridge Replacement over Little Pee Dee River, Dillon County, South Carolina, (PIN # 31751)**



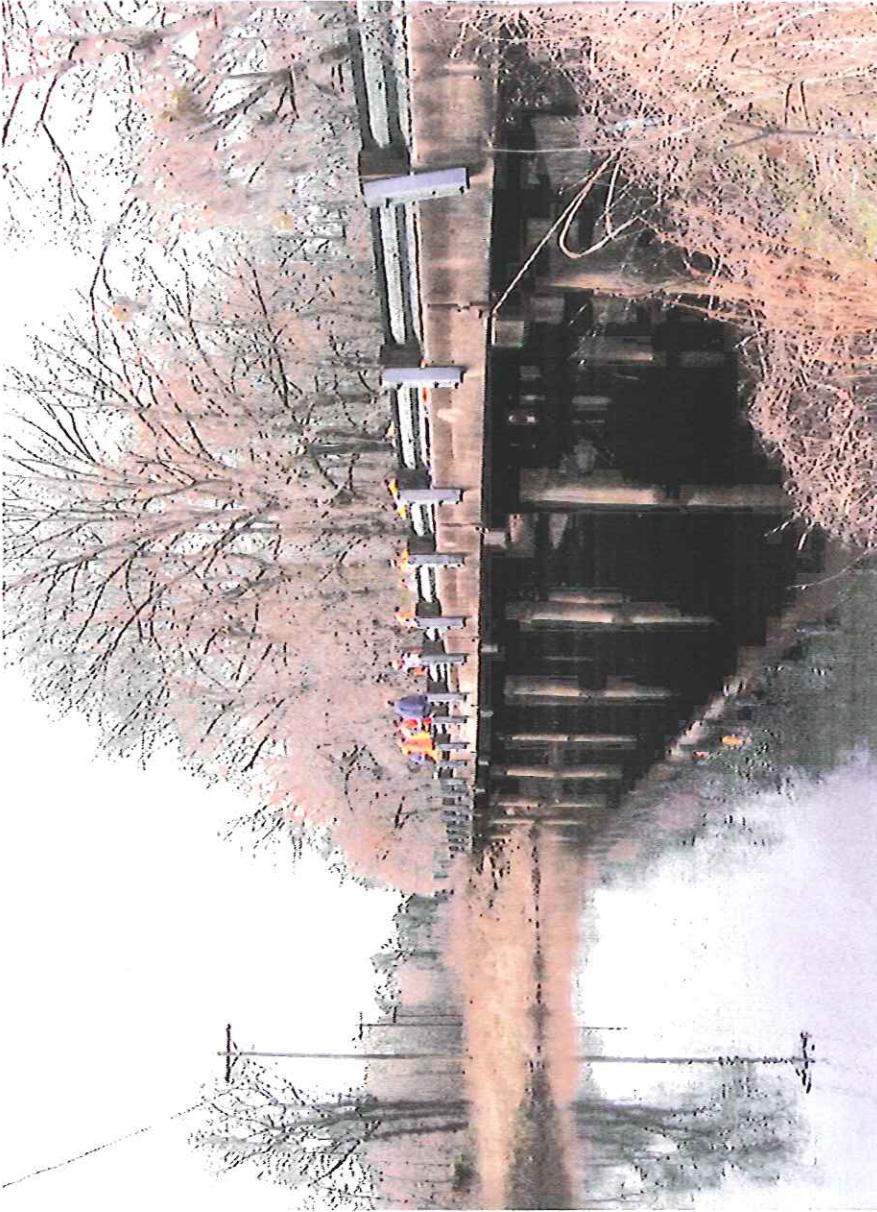
Date 3/1/2018

Description:

View of the existing S-45 Main Bridge over Little Pee Dee River, looking upstream.

Photograph is taken from South West corner of river bank.

**S-45 (Lester Rd) Bridge Replacement over Little Pee Dee River, Dillon County, South Carolina, (PIN # 31751)**



Date 3/1/2018

Description:

View of the existing S-45 Main Bridge over Little Pee Dee River, looking downstream. Photograph is taken from North East corner of river bank.

**S-45 (Lester Rd) Bridge Replacement over Little Pee Dee River, Dillon County, South Carolina, (PIN # 31751)**

**Date 3/1/2018**

Description:

View of the existing S-45 Main Bridge over Little Pee Dee River, looking downstream.

Photograph is taken from South West corner of river bank.







S-45 (Lester Rd) Bridge Replacement over Little Pee Dee River, Dillon County, SC, (PIN # 31751)

FHWA US Coast Guard Permit Exclusion Request Checklist

Additional Information :

- Depth of Water at Normal Pool :
  - 9.7 feet as observed on site visit conducted 1/17/2017
- Vertical Clearance at Normal Pool :
  - 5.2 feet as observed on site visit conducted 1/17/2017
- Horizontal Clearance at Normal Pool :
  - 119.2 feet as observed on site visit conducted 1/17/2017
- Type of Vessel Traffic (commercial or recreational) and whether there are vessels > 21 feet utilizing the waterway:
  - Recreational vessels are known to use the waterway, including canoes, kayaks, and small fishing vessels. Due to the limited depth of water within the Little Pee Dee River, no commercial vessels or recreational vessels greater than 21 feet are known to utilize the waterway.

## BRIDGE SCOPE AND RISK ASSESSMENT FORM

COUNTY: Dillon

DATE: 03/05/2018

ROAD #: S-45

STREAM CROSSING: LITTLE PEE DEE SWAMP

**Purpose & Need for the Project:**

Replacement of Washout Bridge on S-45 over Little Pee Dee Swamp.

**I. FEMA Acknowledgement**

Is this project located in a regulated FEMA Floodway?     Yes     No

Panel Number: 45033C0255C    Effective Date: 05/24/2011 (See Attached)

**II. FEMA Floodmap Investigation**

FEMA Flood Profile Sheet Number \_\_\_\_\_ illustrates the existing 100 year flood:

- Passes under the existing low chord elevation.
- Is in contact with the existing low chord elevation.
- Overtops the existing bridge finished grade elevation.

**III. No Rise/CLOMR Preliminary Determination**

- Preliminary assessment indicates this project may be constructed to meet the "No-Rise" requirements. A detailed hydraulic analysis will be performed to verify this assessment.

Justification: 

FEMA classification A, i.e. no base flood elevations or depths are shown within this zone. The proposed bridge length will be increased and Low Chord raised or maintained resulting in no increase.

- Preliminary assessmnet indicates this project may require a CLOMR/LOMR. Impacts will be determined by a detailed hydraulic analysis.

Justification:

## BRIDGE SCOPE AND RISK ASSESSMENT FORM

### IV. Preliminary Bridge Assessment

#### A. Locate Existing Plans

a. Bridge Plans  Yes File No. \_\_\_\_\_ Sheet No. \_\_\_\_\_ (See Attached)  
 No

b. Road Plans  Yes File No. 17.317 Sheet No. 17-18 (See Attached)  
 No

#### B. Historical Highwater Data

a. USGS Gage  Yes Gage No. \_\_\_\_\_ Results: \_\_\_\_\_  
 No

b. SCDOT/USGS Documented Highwater Elevations  
 Yes Results: \_\_\_\_\_  
 No

c. Existing Plans  Yes See Above  
 No

### V. Field Review

#### A. Existing Bridge

Length: 90 ft. Width: 33 ft. Max. span Length: 15 ft.

Alignment:  Tangent  Curved

Bridge Skewed:  Yes  No Angle: \_\_\_\_\_

End Abutment Type: Spill Through

Riprap on End Fills:  Yes  No Condition: Minor Rip rap slumping

Superstructure Type: Concrete

Substructure Type: Timber

Utilities Present:  Yes  No  
Describe:

Debris Accumulation on Bridge: Percent Blocked Horizontally: 0 %  
Percent Blocked Vertically: 0 %

Hydraulic Problems:  Yes  No  
Describe:

## BRIDGE SCOPE AND RISK ASSESSMENT FORM

### V. Field Review (cont.)

#### B. Hydraulic Features

a. Scour Present:  Yes  No Location: In vicinity of bridge along piles

b. Distance from F.G. to Normal Water Elevation: 7.2 ft.

c. Distance from Low Steel to Normal Water Elev.: 5.4 ft.

d. Distance from F.G. to High Water Elevation: \_\_\_\_\_ - ft.

e. Distance from Low Steel to High Water Elev.: \_\_\_\_\_ - ft.

f. Channel Banks Stable:  Yes  No

Describe: Banks are vegetated.

g. Soil Type: sandy loam

h. Exposed Rock:  Yes  No Location: \_\_\_\_\_

i. Give Description and Location of any structures or other property that could be damaged due to additional backwater.

#### C. Existing Roadway Geometry

a. Can the existing roadway be closed for an On-Alignment Bridge Replacement

Yes  No

Describe:

If "yes", does the existing vertical and horizontal curves meet the proposed design speed criteria?

Yes

If "No", will the proposed bridge be:

Staged Constructed

Replaced on New Alignment

# BRIDGE SCOPE AND RISK ASSESSMENT FORM

## VI. Field Review (cont.)

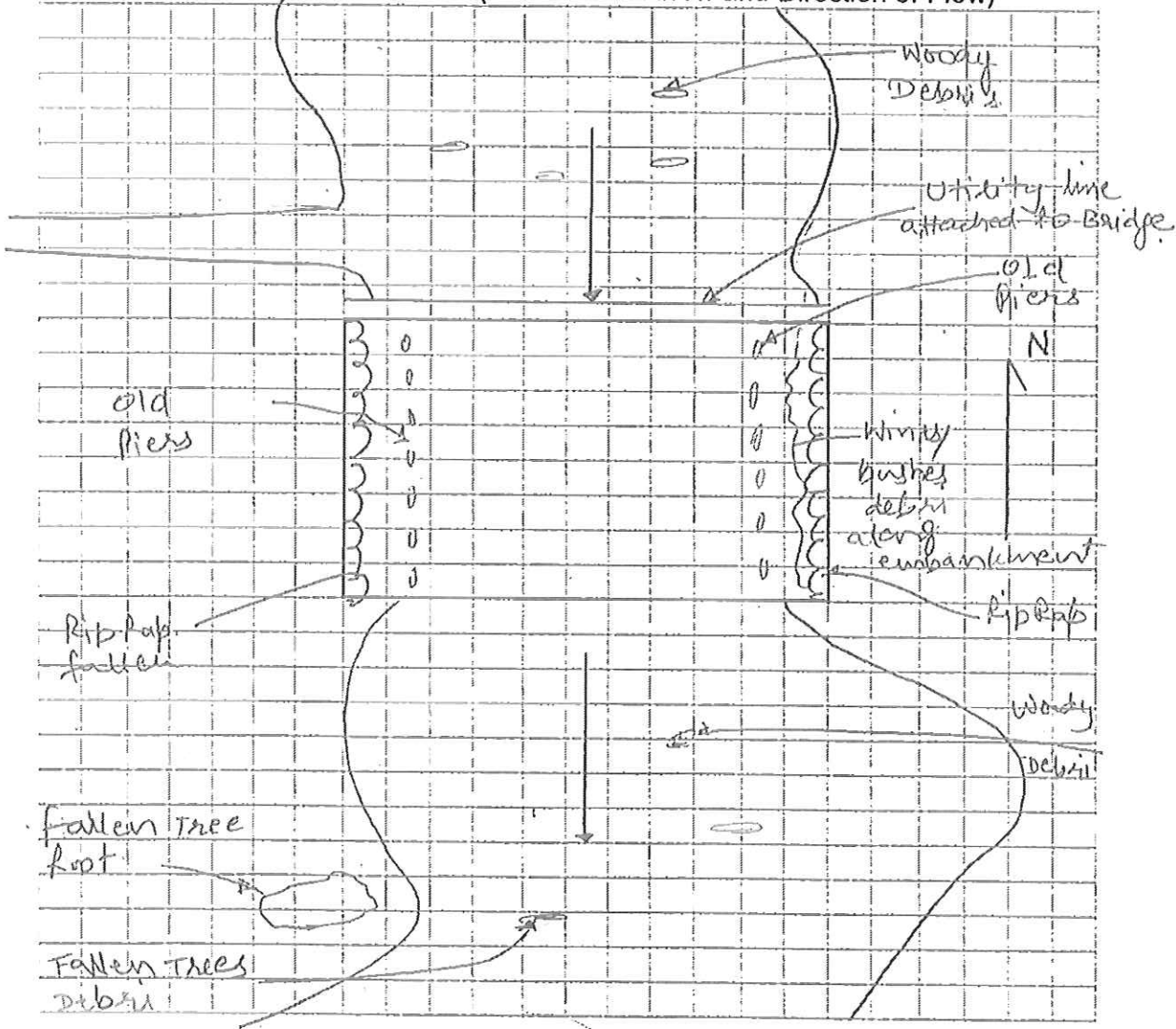
### A. Proposed Bridge Recommendation:

Length: 120 ft. Width: 34 ft. Elevation: 81.9 ft.

Span Arrangement: \_\_\_\_\_

Notes: Swamp Bridge (existing 90')  
Washout

BRIDGE SITE DIAGRAM: (Show North Arrow and Direction of Flow)



Performed By: AS



# BRIDGE SCOPE AND RISK ASSESSMENT FORM

COUNTY: Dillon

DATE: 03/05/2018

ROAD #: S-45

STREAM CROSSING: LITTLE PEE DEE RIVER

Purpose & Need for the Project:

Replacement of Main Bridge on S-45 over Little Pee Dee River.

## I. FEMA Acknowledgement

Is this project located in a regulated FEMA Floodway?  Yes  No

Panel Number: 45033C0255C Effective Date: 05/24/2011 (See Attached)

## II. FEMA Floodmap Investigation

FEMA Flood Profile Sheet Number \_\_\_\_\_ illustrates the existing 100 year flood:

- Passes under the existing low chord elevation.
- Is in contact with the existing low chord elevation.
- Overtops the existing bridge finished grade elevation.

## III. No Rise/CLOMR Preliminary Determination

- Preliminary assessment indicates this project may be constructed to meet the "No-Rise" requirements. A detailed hydraulic analysis will be performed to verify this assessment.

Justification: FEMA classification A, i.e. no base flood elevations or depths are shown within this zone. The proposed bridge length will be increased and Low Chord raised or maintained resulting in no increase.

- Preliminary assessment indicates this project may require a CLOMR/LOMR. Impacts will be determined by a detailed hydraulic analysis.

Justification:

# BRIDGE SCOPE AND RISK ASSESSMENT FORM

## IV. Preliminary Bridge Assessment

### A. Locate Existing Plans

a. Bridge Plans  Yes File No. \_\_\_\_\_ Sheet No. \_\_\_\_\_ (See Attached)  
 No

b. Road Plans  Yes File No. 17.317 Sheet No. 17-18 (See Attached)  
 No

### B. Historical Highwater Data

a. USGS Gage  Yes Gage No. \_\_\_\_\_ Results: \_\_\_\_\_  
 No

b. SCDOT/USGS Documented Highwater Elevations  
 Yes Results: \_\_\_\_\_  
 No

c. Existing Plans  Yes See Above  
 No

## V. Field Review

### A. Existing Bridge

Length: 150 ft. Width: 33 ft. Max. span Length: 15 ft.

Alignment:  Tangent  Curved

Bridge Skewed:  Yes  No Angle: \_\_\_\_\_

End Abutment Type: Spill Through

Riprap on End Fills:  Yes  No Condition: Minor Rip rap slumping

Superstructure Type: Concrete

Substructure Type: Timber

Utilities Present:  Yes  No

Describe: Water line attached upstream to the bridge

Debris Accumulation on Bridge: Percent Blocked Horizontally: 0 %  
Percent Blocked Vertically: 0 %

Hydraulic Problems:  Yes  No

Describe: \_\_\_\_\_



## BRIDGE SCOPE AND RISK ASSESSMENT FORM

### V. Field Review (cont.)

#### B. Hydraulic Features

a. Scour Present:  Yes  No Location: In vicinity of bridge along piles

b. Distance from F.G. to Normal Water Elevation: \_\_\_\_\_ 7 ft.

c. Distance from Low Steel to Normal Water Elev.: \_\_\_\_\_ 5.2 ft.

d. Distance from F.G. to High Water Elevation: \_\_\_\_\_ - ft.

e. Distance from Low Steel to High Water Elev.: \_\_\_\_\_ - ft.

f. Channel Banks Stable:  Yes  No

Describe: Banks are vegetated.

g. Soil Type: sandy loam

h. Exposed Rock:  Yes  No Location: \_\_\_\_\_

i. Give Description and Location of any structures or other property that could be damaged due to additional backwater.

#### C. Existing Roadway Geometry

a. Can the existing roadway be closed for an On-Alignment Bridge Replacement

Yes  No

Describe:

If "yes", does the existing vertical and horizontal curves meet the proposed design speed criteria?

Yes

If "No", will the proposed bridge be:

Staged Constructed

Replaced on New Alignment

# BRIDGE SCOPE AND RISK ASSESSMENT FORM

## VI. Field Review (cont.)

### A. Proposed Bridge Recommendation:

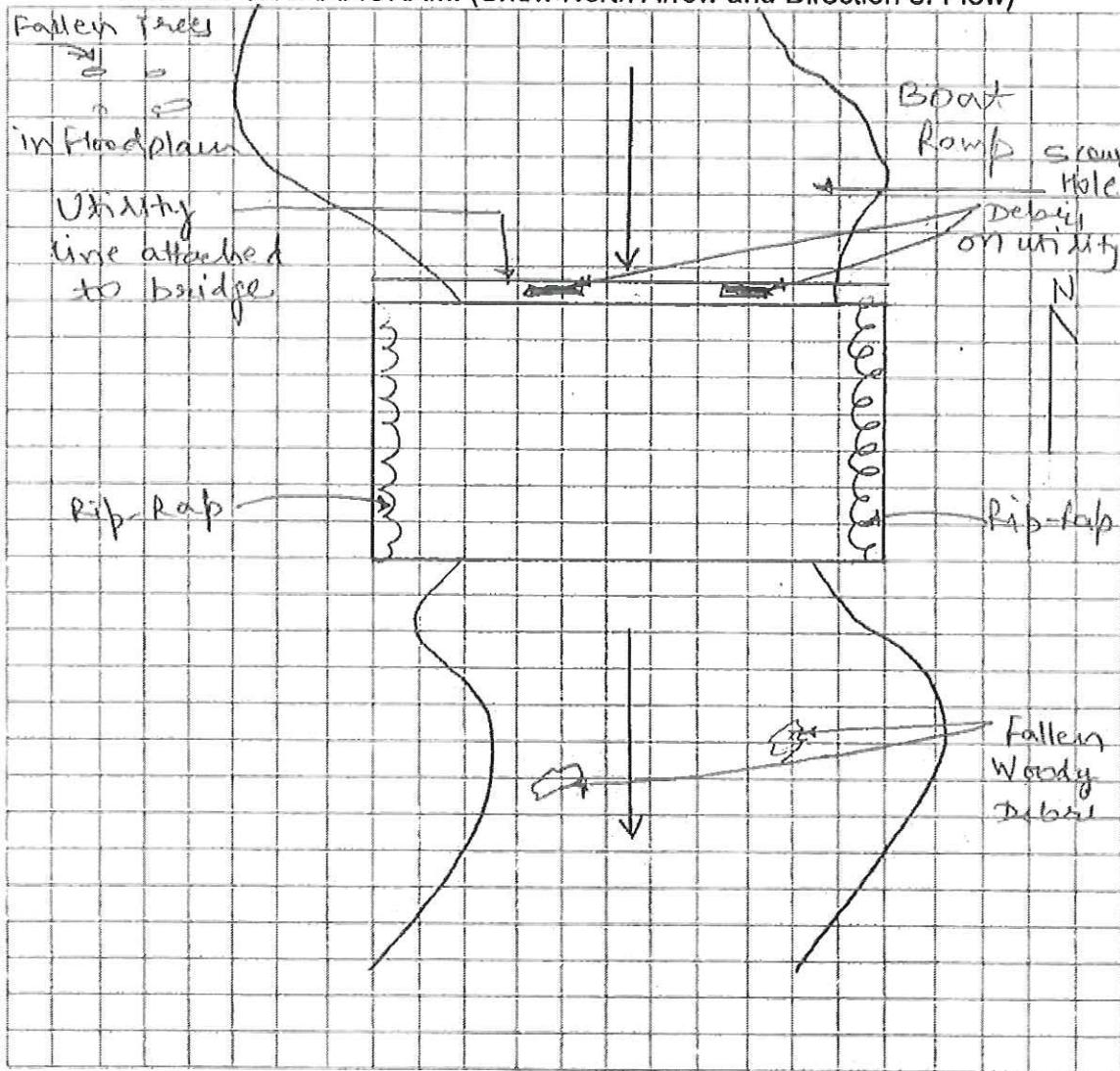
Length: 180 ft.    Width: 34 ft.    Elevation: 81.1 ft.

Span Arrangement: \_\_\_\_\_

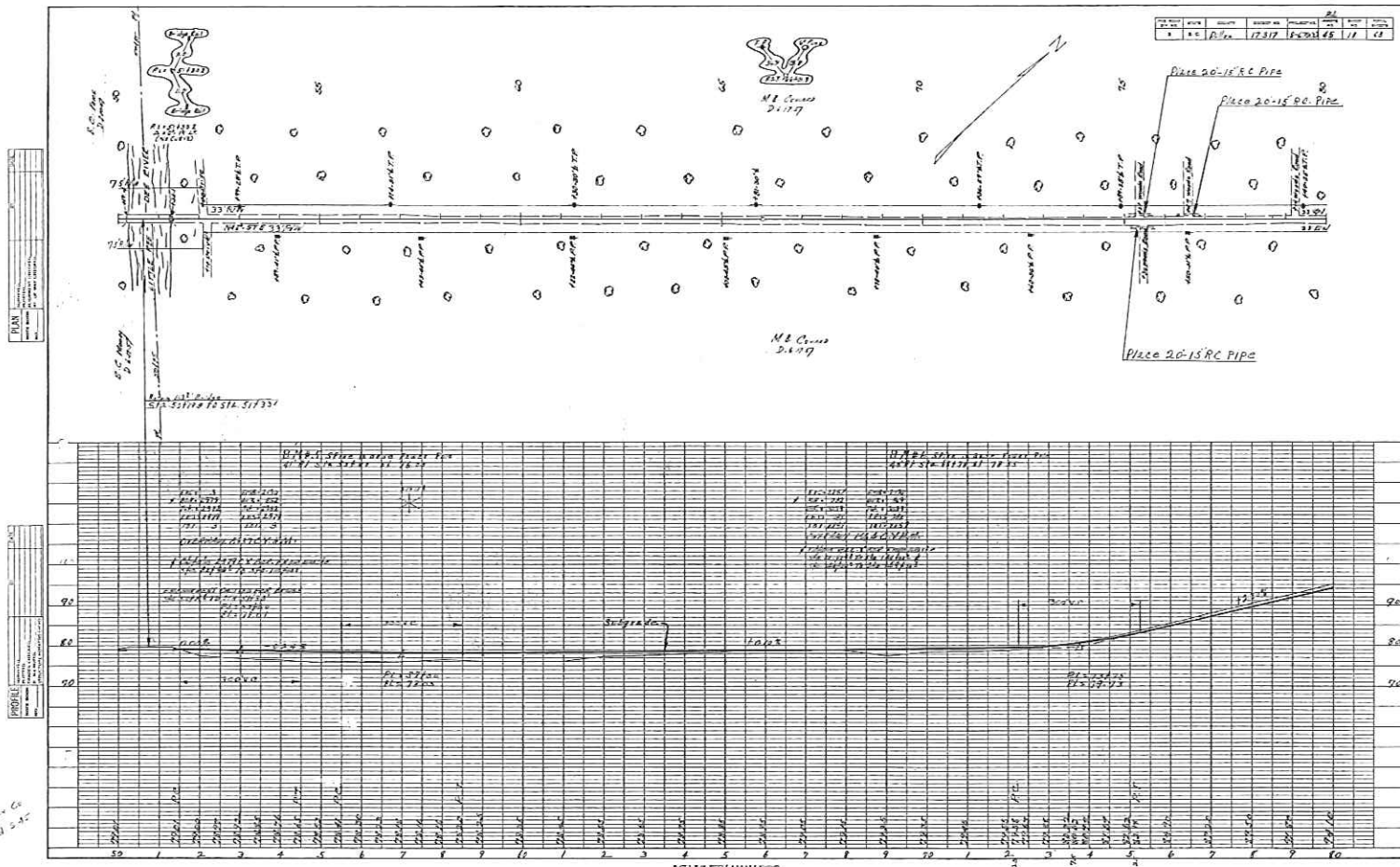
Notes: Little Pee Dee River Bridge (Existing 150')

Main

### BRIDGE SITE DIAGRAM: (Show North Arrow and Direction of Flow)



Performed By: AS



Ellen Co  
12/2/17