

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

Project ID P043995

Route S-24-230

County Greenwood

Part 1 - Project Description

Include the Project Name/Description

S-24-230 Bridge Replacement over Townsend Creek in Greenwood County. Asset ID: 3322

This project proposes to install a replacement bridge along S-24-230 (Townsend Rd E) over Townsend Creek in Greenwood County due to damage caused by hurricane Helene. The route is currently closed and a detour is in place. The new bridge will be an on alignment configuration and will be constructed to comply with current design criteria.

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) Bridge rehabilitation, reconstruction, or replacement or railroad crossing improvements

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
3.	Involves acquisitions that result in residential or non-residential displacements	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
4.	Involves any adverse impacts to EJ populations	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No

Part 3 - Thresholds Continued

5.	Results in capacity expansion of a roadway by adding through lanes	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
6.	Involves construction that would result in <u>*major traffic disruptions</u>	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
7.	Involves <u>*changes in access control</u> requiring FHWA approval	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
8.	An adverse effect determination under Section 106 of the National Historic Preservation Act.	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
9.	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
10.	Any use of a Section 6(f) property	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
11.	Requires an Individual USACE 404 Permit	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
12.	Requires an Individual U.S. Coast Guard Permit.	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
13.	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
14.	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
15.	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
16.	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
17.	Involves acquisition of land for hardship, protective purposes, or early acquisition	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
18.	Does not meet the latest Conformity Determination for air quality non-attainment areas (if applicable).	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
19.	Any known or potential <u>major</u> hazardous waste sites within the right-of-way.	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
20.	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 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 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).

Environmental Commitments: (Check all that apply)

- | | | |
|---|--|--|
| <input type="checkbox"/> USTs/Hazardous Materials | <input type="checkbox"/> General Permit | <input type="checkbox"/> Right of Way |
| <input checked="" type="checkbox"/> Water Quality | <input type="checkbox"/> Individual Permit | <input checked="" type="checkbox"/> Floodplains |
| <input checked="" type="checkbox"/> Migratory Bird Treaty Act | <input type="checkbox"/> Essential Fish Habitat | <input type="checkbox"/> Lead Based Paint |
| <input checked="" type="checkbox"/> Stormwater | <input checked="" type="checkbox"/> Cultural Resources | |
| <input type="checkbox"/> Coast Guard Permit Exclusion | <input type="checkbox"/> Noise | <input type="checkbox"/> Non-Standard Commitment (see below) |

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.

Approved By: **WILL MCGOLDRICK** Digitally signed by WILL MCGOLDRICK Date: 2024.11.13 11:14:37 -05'00' Date

Primavera: Yes No NEPA Start Date: Does the project contain additional commitments?: (if Yes attach to form) Yes No

Date: 11/12/2024



Project ID: P043995 County: Greenwood District: Doc Type: PCE Total # of Commitments: 5

Project Name: S-24-230 Bridge Replacement over Townsend Creek

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: Tyler Clark **PHONE #:** (803)-737-4596

ENVIRONMENTAL COMMITMENTS FOR THE PROJECT

Water Quality NEPA Doc Ref: Responsibility: CONTRACTOR

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.

Special Provision

Migratory Bird Treaty Act NEPA Doc Ref: Responsibility: CONTRACTOR

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 or 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.

Special Provision

Stormwater NEPA Doc Ref: Responsibility: CONTRACTOR

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).

Special Provision

Project ID: P043995

SCDOT
NEPA ENVIRONMENTAL COMMITMENTS
FORM



ENVIRONMENTAL COMMITMENTS FOR THE PROJECT

Cultural Resources

NEPA Doc Ref:

Responsibility:

CONTRACTOR

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.

Special Provision

Floodplains

NEPA Doc Ref:

Responsibility:

SCDOT

The Engineer of Record will send a set of final plans and request for floodplain management compliance to the local County Floodplain Administrator.

Special Provision

NEPA Doc Ref:

Responsibility:

Special Provision



Cultural Resources Project Screening Form

File Number: PIN: Route: County:

Project Name:

Type 1: Resurfacing, installation of fencing, signs, pavement markings, traffic signals, passenger shelters, railroad warning devices, installation of rumble strips, and landscaping

Project Type

Type 2: Bridge replacements on alignment, construction of bicycle/pedestrian facilities, and intersection improvements

Type 3: Projects that do not fall into Type 1 and Type 2 categories (e.g. road widening)

Comments

This project will replace the bridge carrying S-230 (Townsend Road) over Townsend Creek, which was damaged during Hurricane Helene. The bridge will be replaced on alignment and a small amount of new right-of-way (ROW) may be required. The study area extends 75 feet to each side of the roadway centerline and 600 feet from either end of the bridge. The archaeological survey examined the study area. The architectural survey examined the Area of Potential Effects (APE), which consisted of a 300-foot buffer around the study area. The APE was reviewed using ArchSite, Google Earth, Web Soil Survey, historic topographic maps, and aerial photographs. The review determined that the area has not been previously surveyed for cultural resources and no previously recorded historic properties are located within or in the vicinity of the APE. Web Soil Survey maps the majority of the soils within the ADE (78 percent) as well drained. The remaining 22 percent of the soils are somewhat poorly drained. A cultural resources field survey, consisting of a pedestrian reconnaissance of the entire APE, augmented by the excavation of shovel tests, was conducted by HDR on October 29, 2024. At the time of survey, the bridge was open to traffic. Twelve shovel test locations were investigated to the north of the bridge. All of these shovel tests were excavated. Twelve shovel test locations were investigated to the south of the bridge. Of these, four were not excavated due to a high degree of slope. All shovel tests were negative for cultural material. The bridge to be replaced (Asset #3322) was built in 1960. It is a 75-foot-long precast concrete slab bridge with five spans. The bridge was not recorded and evaluated for inclusion in the National Register of Historic Places (NRHP). because it qualifies for streamlined review under the FHWA's Post-1945 Bridges Program Comment. No other above ground resources are located within the APE. No additional cultural resources investigations are recommended.

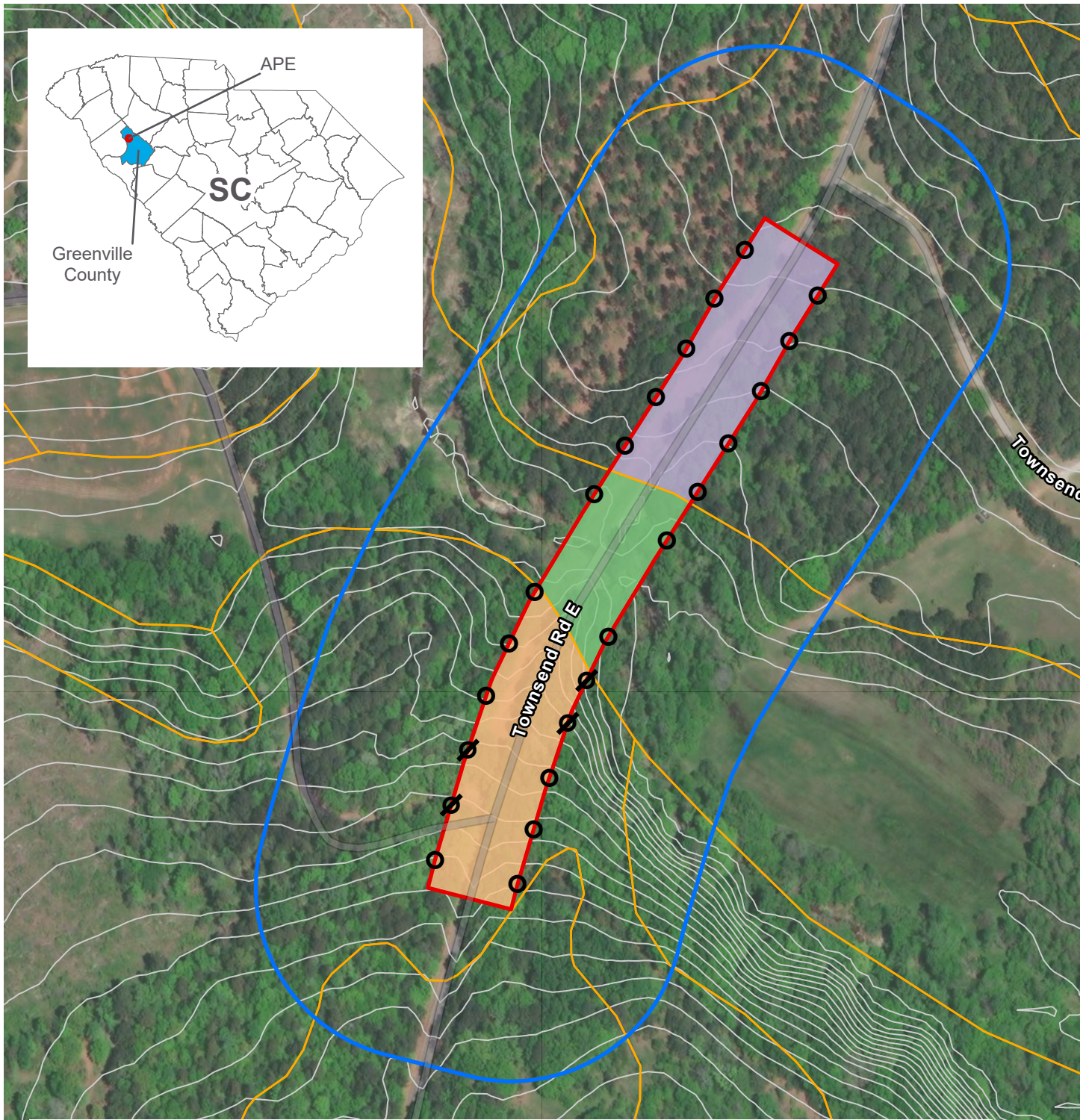
Effect Determination:

*SHPO consultation is required for all Type 3 projects and any project with a No Adverse or Adverse Effect Determination.

This screening form was developed to satisfy documentation requirements for Type I and Type II projects under a Programmatic Agreement between the Federal Highway Administration, the South Carolina State Historic Preservation Office, the US Army Corps of Engineers, and the South Carolina Department of Transportation. For Type I and Type II projects that have no effect on historic properties, the completion of this screening form with supporting documentation (e.g. ArchSite Map) provides evidence of FHWA and SCDOT's compliance with Section 106 of the National Historic Preservation Act.

Prepared by:

Review Date:



LEGEND

ADE	Soil Classes
Architectural APE	Soil Types
Shovel Tests	Somewhat poorly drained, Cartecay and Toccoa soils
Negative	Well drained, Enon sandy loam, 6 to 10 percent slopes
Not Excavated	Well drained, Hiwassee sandy loam, 6 to 10 percent slopes
5' Contours	

DATA SOURCE: Esri World Imagery; NRCS Greenwood County Soils.



**TOWNSEND ROAD BRIDGE
OVER TOWNSEND CREEK
SHOVEL TEST LOCATIONS**



Biological Assessment Report

Project Title: S-230 Bridge Replacement over an Unnamed Tributary

County: Greenwood

SCDOT PIN: P043995

Date: 11/6/2024

Prepared By: Chris Beckham *Chris Beckham*

Pursuant to Section 7 of the Endangered Species Act a field survey was conducted within the project corridor. The project was also entered into the USFWS Information for Planning Consultation (IPaC) tool. A copy of the official species list letter from IPaC is included in Appendix A. The following list of threatened (T) and endangered (E) species was evaluated:

Description

The project involves the replacement of the S-230 Bridge over an unnamed tributary to Coronaca Creek in Greenwood County, South Carolina. The existing bridge was damaged during hurricane Helene and is closed to traffic. The project study area (PSA) includes waters of the unnamed tributary and approximately 10 acres of forested upland habitats. Dominant plant species within the corridor include various oak species (*Quercus spp.*), sweet gum (*Liquidambar styraciflua*), tulip poplar (*Liriodendron tulipifera*), loblolly pine (*Pinus taeda*), and box elder (*Acer negundo*). Much of the forest understory and the road right of way is dominated by various herbaceous plants, muscadine vine (*Vitis rotundifolia*), greenbrier (*Smilax rotundifolia*), black berry (*Rubus fruiticosus*), and privet (*Ligustrum sp.*). The bridge will be replaced on existing alignment and will involve some minor clearing and in-water work for construction access.

Species List

Species	Federal Protection Status	Effect Determination
Tricolored bat (<i>Perimyotis subflavus</i>)	Endangered*	-

*Tricolored bat was proposed as endangered in September 2022. The effect determination will be updated when the listing becomes final.

Mammals

The tricolored bat is found within Greenwood County and there is potentially suitable habitat within the project study area. The bridge structure was inspected for the presence of roosting bats. No bats were observed, and there were no unexplained stains or guano found on the bridge surfaces. The structure of the bridge is a flat slab that lacks significant cavities that could be utilized for roosting bats. The construction of the project will involve some tree removal in suitable habitat. The number of trees removed will be the minimal amount necessary to construct the project. A formal evaluation for the species will be completed at the time of final listing if the project has not been completed. Because of the minimal impacts, and the lack of bats using the structure, the project would be expected to have no adverse effect on tricolored bats.

Results

The tricolored bat is currently proposed for listing and does not have the full protection under Section 7 of the Endangered Species Act. If the listing status for tricolored bat goes into effect prior to completion of the proposed work, SCDOT will initiate consultation with the USFWS at that time. The proposed project will have no effect on any currently listed species or critical habitat.

Appendix A – Agency Correspondence



United States Department of the Interior



FISH AND WILDLIFE SERVICE
South Carolina Ecological Services
176 Croghan Spur Road, Suite 200
Charleston, SC 29407-7558
Phone: (843) 727-4707 Fax: (843) 727-4218

In Reply Refer To:

10/29/2024 17:37:08 UTC

Project Code: 2025-0012571

Project Name: S-230 bridge replacement over an unnamed tributary

Subject: List of threatened and endangered species that may occur in your proposed project location or may be affected by your proposed project

To Whom It May Concern:

The enclosed species list identifies threatened, endangered, proposed and candidate species, as well as proposed and final designated critical habitat, that may occur within the boundary of your proposed project and/or may be affected by your proposed project. The species list fulfills the requirements of the U.S. Fish and Wildlife Service (Service) under section 7(c) of the Endangered Species Act (Act) of 1973, as amended (16 U.S.C. 1531 *et seq.*).

New information based on updated surveys, changes in the abundance and distribution of species, changed habitat conditions, or other factors could change this list. Please feel free to contact us if you need more current information or assistance regarding the potential impacts to federally proposed, listed, and candidate species and federally designated and proposed critical habitat. Please note that under 50 CFR 402.12(e) of the regulations implementing section 7 of the Act, the accuracy of this species list should be verified after 90 days. This verification can be completed formally or informally as desired. The Service recommends that verification be completed by visiting the IPaC website at regular intervals during project planning and implementation for updates to species lists and information. An updated list may be requested through the IPaC system by completing the same process used to receive the enclosed list.

The purpose of the Act is to provide a means whereby threatened and endangered species and the ecosystems upon which they depend may be conserved. Under sections 7(a)(1) and 7(a)(2) of the Act and its implementing regulations (50 CFR 402 *et seq.*), Federal agencies are required to utilize their authorities to carry out programs for the conservation of threatened and endangered species and to determine whether projects may affect threatened and endangered species and/or designated critical habitat.

A Biological Assessment is required for construction projects (or other undertakings having similar physical impacts) that are major Federal actions significantly affecting the quality of the human environment as defined in the National Environmental Policy Act (42 U.S.C. 4332(2) (c)). For projects other than major construction activities, the Service suggests that a biological

evaluation similar to a Biological Assessment be prepared to determine whether the project may affect listed or proposed species and/or designated or proposed critical habitat. Recommended contents of a Biological Assessment are described at 50 CFR 402.12.

If a Federal agency determines, based on the Biological Assessment or biological evaluation, that listed species and/or designated critical habitat may be affected by the proposed project, the agency is required to consult with the Service pursuant to 50 CFR 402. In addition, the Service recommends that candidate species, proposed species and proposed critical habitat be addressed within the consultation. More information on the regulations and procedures for section 7 consultation, including the role of permit or license applicants, can be found in the "Endangered Species Consultation Handbook" at:

<https://www.fws.gov/sites/default/files/documents/endangered-species-consultation-handbook.pdf>

Migratory Birds: In addition to responsibilities to protect threatened and endangered species under the Endangered Species Act (ESA), there are additional responsibilities under the Migratory Bird Treaty Act (MBTA) and the Bald and Golden Eagle Protection Act (BGEPA) to protect native birds from project-related impacts. Any activity, intentional or unintentional, resulting in take of migratory birds, including eagles, is prohibited unless otherwise permitted by the U.S. Fish and Wildlife Service (50 C.F.R. Sec. 10.12 and 16 U.S.C. Sec. 668(a)). For more information regarding these Acts, see <https://www.fws.gov/program/migratory-bird-permit/what-we-do>.

The MBTA has no provision for allowing take of migratory birds that may be unintentionally killed or injured by otherwise lawful activities. It is the responsibility of the project proponent to comply with these Acts by identifying potential impacts to migratory birds and eagles within applicable NEPA documents (when there is a federal nexus) or a Bird/Eagle Conservation Plan (when there is no federal nexus). Proponents should implement conservation measures to avoid or minimize the production of project-related stressors or minimize the exposure of birds and their resources to the project-related stressors. For more information on avian stressors and recommended conservation measures, see <https://www.fws.gov/library/collections/threats-birds>.

In addition to MBTA and BGEPA, Executive Order 13186: *Responsibilities of Federal Agencies to Protect Migratory Birds*, obligates all Federal agencies that engage in or authorize activities that might affect migratory birds, to minimize those effects and encourage conservation measures that will improve bird populations. Executive Order 13186 provides for the protection of both migratory birds and migratory bird habitat. For information regarding the implementation of Executive Order 13186, please visit <https://www.fws.gov/partner/council-conservation-migratory-birds>.

We appreciate your concern for threatened and endangered species. The Service encourages Federal agencies to include conservation of threatened and endangered species into their project planning to further the purposes of the Act. Please include the Consultation Code in the header of this letter with any request for consultation or correspondence about your project that you submit to our office.

Attachment(s):

- Official Species List
- USFWS National Wildlife Refuges and Fish Hatcheries
- Bald & Golden Eagles
- Migratory Birds
- Wetlands

OFFICIAL SPECIES LIST

This list is provided pursuant to Section 7 of the Endangered Species Act, and fulfills the requirement for Federal agencies to "request of the Secretary of the Interior information whether any species which is listed or proposed to be listed may be present in the area of a proposed action".

This species list is provided by:

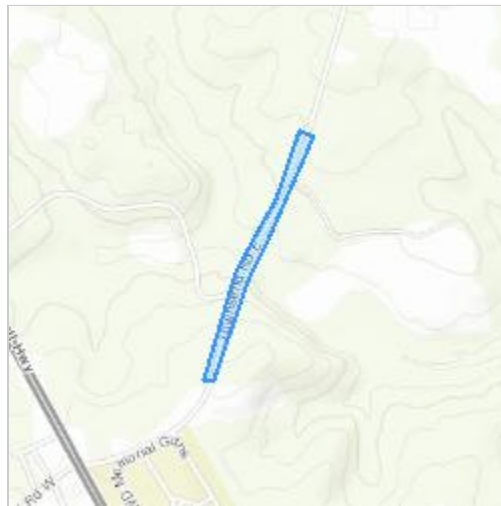
South Carolina Ecological Services
176 Croghan Spur Road, Suite 200
Charleston, SC 29407-7558
(843) 727-4707

PROJECT SUMMARY

Project Code: 2025-0012571
Project Name: S-230 bridge replacement over an unnamed tributary
Project Type: Bridge - Replacement
Project Description: SCDOT proposes to replace the S-230 bridge over an unnamed tributary to Coronacca Creek in Greenwood County. The bridge was damaged during hurricane Helene and the road is currently closed to traffic. The bridge will be replaced on the existing alignment.

Project Location:

The approximate location of the project can be viewed in Google Maps: <https://www.google.com/maps/@34.2690626,-82.2205065158418,14z>



Counties: Greenwood County, South Carolina

ENDANGERED SPECIES ACT SPECIES

There is a total of 2 threatened, endangered, or candidate species on this species list.

Species on this list should be considered in an effects analysis for your project and could include species that exist in another geographic area. For example, certain fish may appear on the species list because a project could affect downstream species.

IPaC does not display listed species or critical habitats under the sole jurisdiction of NOAA Fisheries¹, as USFWS does not have the authority to speak on behalf of NOAA and the Department of Commerce.

See the "Critical habitats" section below for those critical habitats that lie wholly or partially within your project area under this office's jurisdiction. Please contact the designated FWS office if you have questions.

-
1. [NOAA Fisheries](#), also known as the National Marine Fisheries Service (NMFS), is an office of the National Oceanic and Atmospheric Administration within the Department of Commerce.

MAMMALS

NAME	STATUS
Tricolored Bat <i>Perimyotis subflavus</i> No critical habitat has been designated for this species. Species profile: https://ecos.fws.gov/ecp/species/10515	Proposed Endangered

INSECTS

NAME	STATUS
Monarch Butterfly <i>Danaus plexippus</i> No critical habitat has been designated for this species. Species profile: https://ecos.fws.gov/ecp/species/9743	Candidate

CRITICAL HABITATS

THERE ARE NO CRITICAL HABITATS WITHIN YOUR PROJECT AREA UNDER THIS OFFICE'S JURISDICTION.

YOU ARE STILL REQUIRED TO DETERMINE IF YOUR PROJECT(S) MAY HAVE EFFECTS ON ALL ABOVE LISTED SPECIES.

USFWS NATIONAL WILDLIFE REFUGE LANDS AND FISH HATCHERIES

Any activity proposed on lands managed by the [National Wildlife Refuge](#) system must undergo a 'Compatibility Determination' conducted by the Refuge. Please contact the individual Refuges to discuss any questions or concerns.

THERE ARE NO REFUGE LANDS OR FISH HATCHERIES WITHIN YOUR PROJECT AREA.

BALD & GOLDEN EAGLES

Bald and golden eagles are protected under the Bald and Golden Eagle Protection Act¹ and the Migratory Bird Treaty Act².

Any person or organization who plans or conducts activities that may result in impacts to bald or golden eagles, or their habitats³, should follow appropriate regulations and consider implementing appropriate conservation measures, as described in the links below. Specifically, please review the ["Supplemental Information on Migratory Birds and Eagles"](#).

-
1. The [Bald and Golden Eagle Protection Act](#) of 1940.
 2. The [Migratory Birds Treaty Act](#) of 1918.
 3. 50 C.F.R. Sec. 10.12 and 16 U.S.C. Sec. 668(a)

There are likely bald eagles present in your project area. For additional information on bald eagles, refer to [Bald Eagle Nesting and Sensitivity to Human Activity](#)

For guidance on when to schedule activities or implement avoidance and minimization measures to reduce impacts to migratory birds on your list, see the PROBABILITY OF PRESENCE SUMMARY below to see when these birds are most likely to be present and breeding in your project area.

NAME	BREEDING SEASON
Bald Eagle <i>Haliaeetus leucocephalus</i> This is not a Bird of Conservation Concern (BCC) in this area, but warrants attention because of the Eagle Act or for potential susceptibilities in offshore areas from certain types of development or activities. https://ecos.fws.gov/ecp/species/1626	Breeds Sep 1 to Jul 31

PROBABILITY OF PRESENCE SUMMARY

The graphs below provide our best understanding of when birds of concern are most likely to be present in your project area. This information can be used to tailor and schedule your project activities to avoid or minimize impacts to birds. Please make sure you read "[Supplemental Information on Migratory Birds and Eagles](#)", specifically the FAQ section titled "Proper Interpretation and Use of Your Migratory Bird Report" before using or attempting to interpret this report.

Probability of Presence (■)

Green bars; the bird's relative probability of presence in the 10km grid cell(s) your project overlaps during that week of the year.

Breeding Season (■)

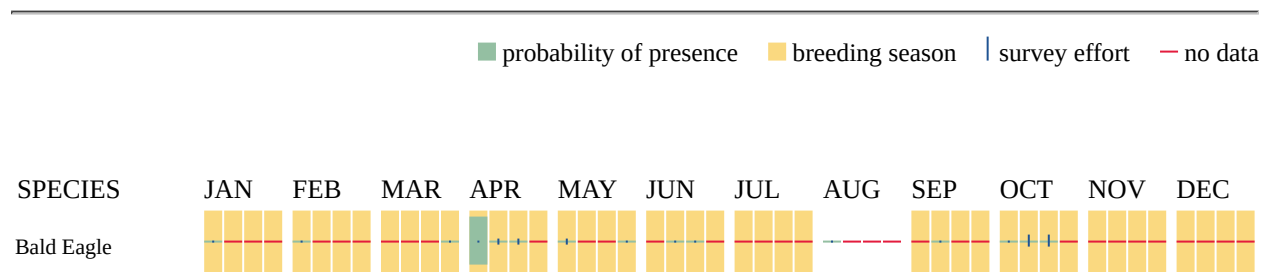
Yellow bars; liberal estimate of the timeframe inside which the bird breeds across its entire range.

Survey Effort (|)

Vertical black lines; the number of surveys performed for that species in the 10km grid cell(s) your project area overlaps.

No Data (-)

A week is marked as having no data if there were no survey events for that week.



Non-BCC
Vulnerable

Additional information can be found using the following links:

- Eagle Management <https://www.fws.gov/program/eagle-management>
- Measures for avoiding and minimizing impacts to birds <https://www.fws.gov/library/collections/avoiding-and-minimizing-incident-take-migratory-birds>
- Nationwide conservation measures for birds <https://www.fws.gov/sites/default/files/documents/nationwide-standard-conservation-measures.pdf>
- Supplemental Information for Migratory Birds and Eagles in IPaC <https://www.fws.gov/media/supplemental-information-migratory-birds-and-bald-and-golden-eagles-may-occur-project-action>

MIGRATORY BIRDS

Certain birds are protected under the Migratory Bird Treaty Act¹ and the Bald and Golden Eagle Protection Act².

Any person or organization who plans or conducts activities that may result in impacts to migratory birds, eagles, and their habitats³ should follow appropriate regulations and consider implementing appropriate conservation measures, as described in the links below. Specifically, please review the "[Supplemental Information on Migratory Birds and Eagles](#)".

-
1. The [Migratory Birds Treaty Act](#) of 1918.
 2. The [Bald and Golden Eagle Protection Act](#) of 1940.
 3. 50 C.F.R. Sec. 10.12 and 16 U.S.C. Sec. 668(a)

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Bald Eagle <i>Haliaeetus leucocephalus</i> This is not a Bird of Conservation Concern (BCC) in this area, but warrants attention because of the Eagle Act or for potential susceptibilities in offshore areas from certain types of development or activities. https://ecos.fws.gov/ecp/species/1626	Breeds Sep 1 to Jul 31

NAME	BREEDING SEASON
Chimney Swift <i>Chaetura pelagica</i> This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska. https://ecos.fws.gov/ecp/species/9406	Breeds Mar 15 to Aug 25
Red-headed Woodpecker <i>Melanerpes erythrocephalus</i> This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska. https://ecos.fws.gov/ecp/species/9398	Breeds May 10 to Sep 10
Wood Thrush <i>Hylocichla mustelina</i> This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska. https://ecos.fws.gov/ecp/species/9431	Breeds May 10 to Aug 31

PROBABILITY OF PRESENCE SUMMARY

The graphs below provide our best understanding of when birds of concern are most likely to be present in your project area. This information can be used to tailor and schedule your project activities to avoid or minimize impacts to birds. Please make sure you read "[Supplemental Information on Migratory Birds and Eagles](#)", specifically the FAQ section titled "Proper Interpretation and Use of Your Migratory Bird Report" before using or attempting to interpret this report.

Probability of Presence (■)

Green bars; the bird's relative probability of presence in the 10km grid cell(s) your project overlaps during that week of the year.

Breeding Season (■)

Yellow bars; liberal estimate of the timeframe inside which the bird breeds across its entire range.

Survey Effort (|)

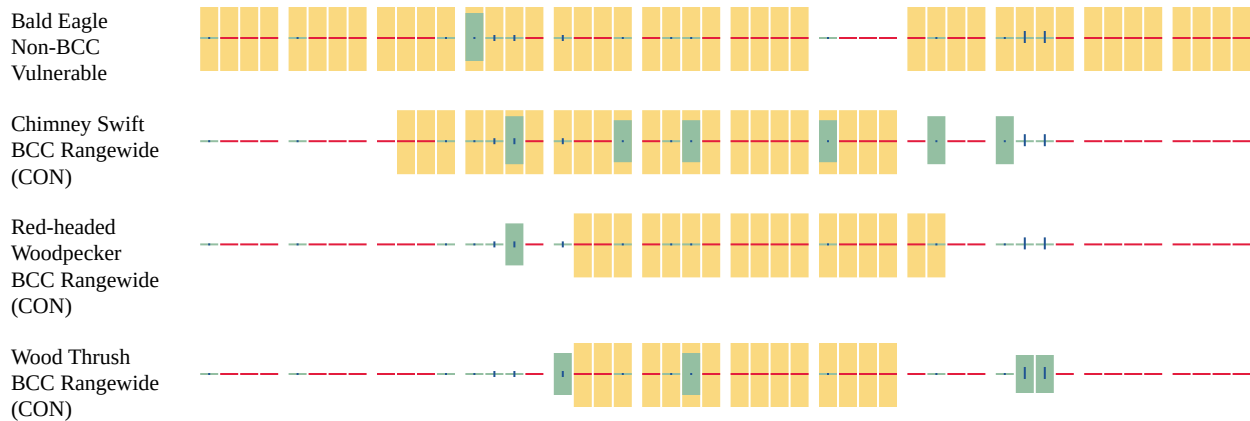
Vertical black lines; the number of surveys performed for that species in the 10km grid cell(s) your project area overlaps.

No Data (—)

A week is marked as having no data if there were no survey events for that week.

■ probability of presence ■ breeding season | survey effort — no data

SPECIES JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC



Additional information can be found using the following links:

- Eagle Management <https://www.fws.gov/program/eagle-management>
- Measures for avoiding and minimizing impacts to birds <https://www.fws.gov/library/collections/avoiding-and-minimizing-incident-take-migratory-birds>
- Nationwide conservation measures for birds <https://www.fws.gov/sites/default/files/documents/nationwide-standard-conservation-measures.pdf>
- Supplemental Information for Migratory Birds and Eagles in IPaC <https://www.fws.gov/media/supplemental-information-migratory-birds-and-bald-and-golden-eagles-may-occur-project-action>

WETLANDS

Impacts to [NWI wetlands](#) and other aquatic habitats may be subject to regulation under Section 404 of the Clean Water Act, or other State/Federal statutes.

For more information please contact the Regulatory Program of the local [U.S. Army Corps of Engineers District](#).

Please note that the NWI data being shown may be out of date. We are currently working to update our NWI data set. We recommend you verify these results with a site visit to determine the actual extent of wetlands on site.

RIVERINE

- R4SBC
- R2UBH

IPAC USER CONTACT INFORMATION

Agency: South Carolina Department of Transportation

Name: Chris Beckham

Address: 955 Park Street

City: Columbia

State: SC

Zip: 29201

Email: beckhamjc@scdot.org

Phone: 8036099464

LEAD AGENCY CONTACT INFORMATION

Lead Agency: Federal Highway Administration

PERMIT DETERMINATION

Date: 10/24/2024

Project ID: P043995

From: Caycee Cleaver

Company: SCDOT

Contact Info (phone and/or email): cleavercc@scdot.org

Permit Manager: Will McGoldrick - Alternative Delivery Coordinator

Project Name: S-24-230 Bridge Replacement over Townsend Creek

County: Greenwood

(Optional) Structure #: 3322

STUDY AREA:

Does there appear to be WOTUS in the study area? YES NO

PERMIT TYPE:

It has been determined that no permit is required because:

The following permit(s) is/are necessary:

(Please check which type(s) of permit the project will need)

USACE Permit GP IP NWP
OCRM Permit Individual CAP CAP GP
Navigable Permit State NAV USCG

408 PROJECT INFO:

Is it within a 408 Project: YES NO

408 Project Name: _____

MITIGATION:

Mitigation Bank: YES NO

Mitigation Bank Name: EVRN PMT - Sandy Fork and Oak Grove MB

Comments: NW 3 for Emergency replacement

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.

Will McGoldrick Digitally signed by Will McGoldrick
Date: 2024.11.05 08:42:30 -05'00'

Biologist, SCDOT/Consultant

Nov 5, 2024

Date



Watershed and Water Quality Information

SC Department of Environmental Services

General Information

Applicant Name: Caycee Cleaver

Permit Type: Construction

Address: 319 TOWNSEND RD E,
HODGES, SC, 29653

Latitude/Longitude: 34.269230 / -82.220472

MS4 Designation: Not in designated area

Monitoring Station: RS-11054

Within Coastal Critical Area: No

Water Classification (Provisional): FW

Waterbody Name: Unnamed Trib

Entered Waterbody Name: Townsend Creek

Parameter Description

NH3N	Ammonia	CD	Cadmium	CR	Chromium
CU	Copper	HG	Mercury	NI	Nickel
PB	Lead	ZN	Zinc	DO	Dissolved Oxygen
PH	pH	TURBIDITY	Turbidity	ECOLI	Escherichia coli (Freshwaters)
FC	Fecal Coliform (Shellfish)	BIO	Macroinvertebrates (Bio)	TP	(Lakes) Phosphorus
TN	(Lakes) Nitrogen	CHLA	(Lakes) Chlorophyll a	ENTERO	Enterococcus (Coastal Waters)
HGF	Mercury (Fish Tissue)	PCB	PCB (Fish)		

Impaired Status (downstream sites)

Station	NH3N	CD	CR	CU	HG	NI	PB	ZN	DO	PH	TURBIDITY	ECOLI	FC	BIO	TP	TN	CHLA	ENTERO	HGF	PCB
RS-11054	X	X	X	X	X	X	F	X	N	X	X	WnTF	X	X	X	X	X	X	X	X

F = Standards full supported A = Assessed at upstream station WnTN = Within TMDL, parameter not supported WnTF = Within TMDL, parameter full supported
 N = Standards not supported X = Parameter not assessed at station InTN = In TMDL, parameter not supported InTF = In TMDL, parameter full supported

Parameters to be addressed (those not supporting standards)

DO - Dissolved Oxygen

ECOLI - Escherichia coli (Freshwaters)

Fish Consumption Advisory

Waters of Concern (WOC)

TMDL Information - TMDL Parameters to be addressed

In TMDL Watershed: Yes

TMDL Site: RS-11054

TMDL Report No: 04A-10

TMDL Parameter: Fecal

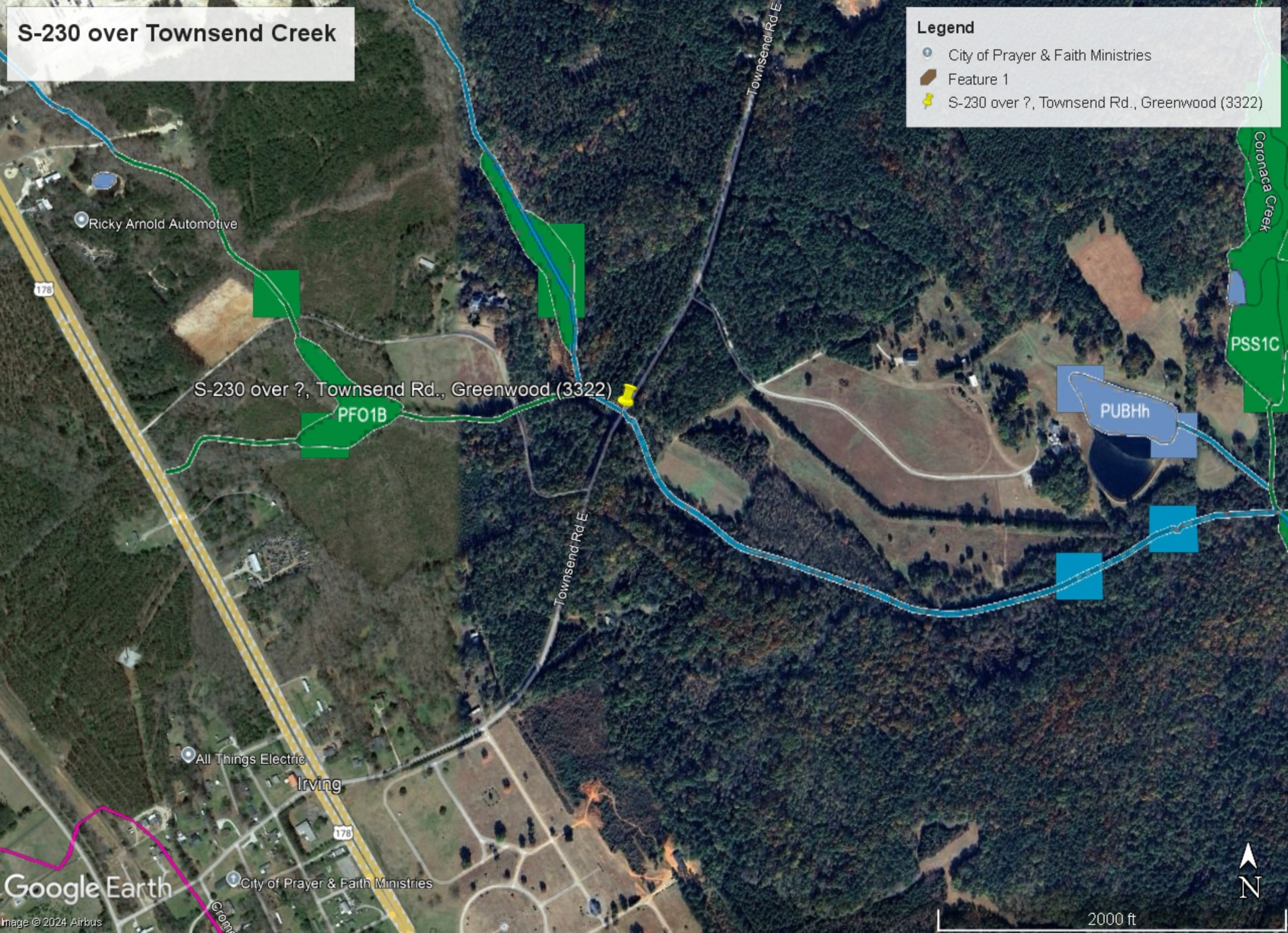
TMDL Document Link: https://www.scdhec.gov/sites/default/files/docs/HomeAndEnvironment/Docs/tmdl_96crk_fc.pdf

Report Date: October 25, 2024

S-230 over Townsend Creek

Legend

- City of Prayer & Faith Ministries
- Feature 1
- S-230 over ?, Townsend Rd., Greenwood (3322)



S-230 over ?, Townsend Rd., Greenwood (3322)

PFO1B

PUBHh

PSS1C

Townsend Rd. E

Townsend Rd. E

Coronaca Creek

Ricky Arnold Automotive

All Things Electric

Irving

City of Prayer & Faith Ministries

Google Earth

Image © 2024 Airbus

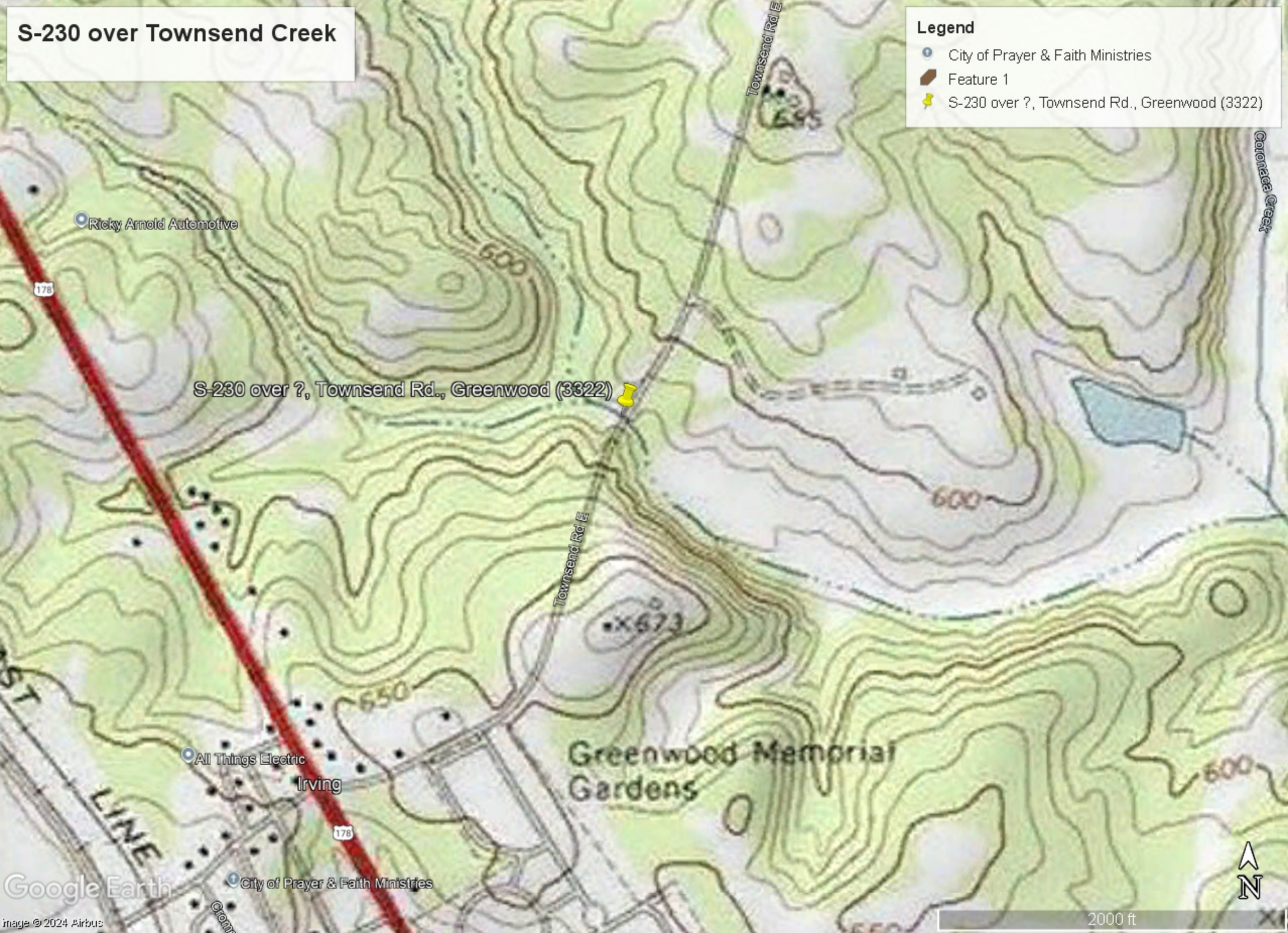
2000 ft



S-230 over Townsend Creek

Legend

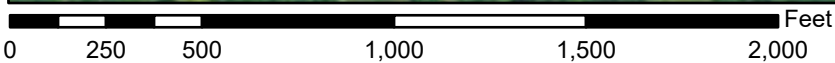
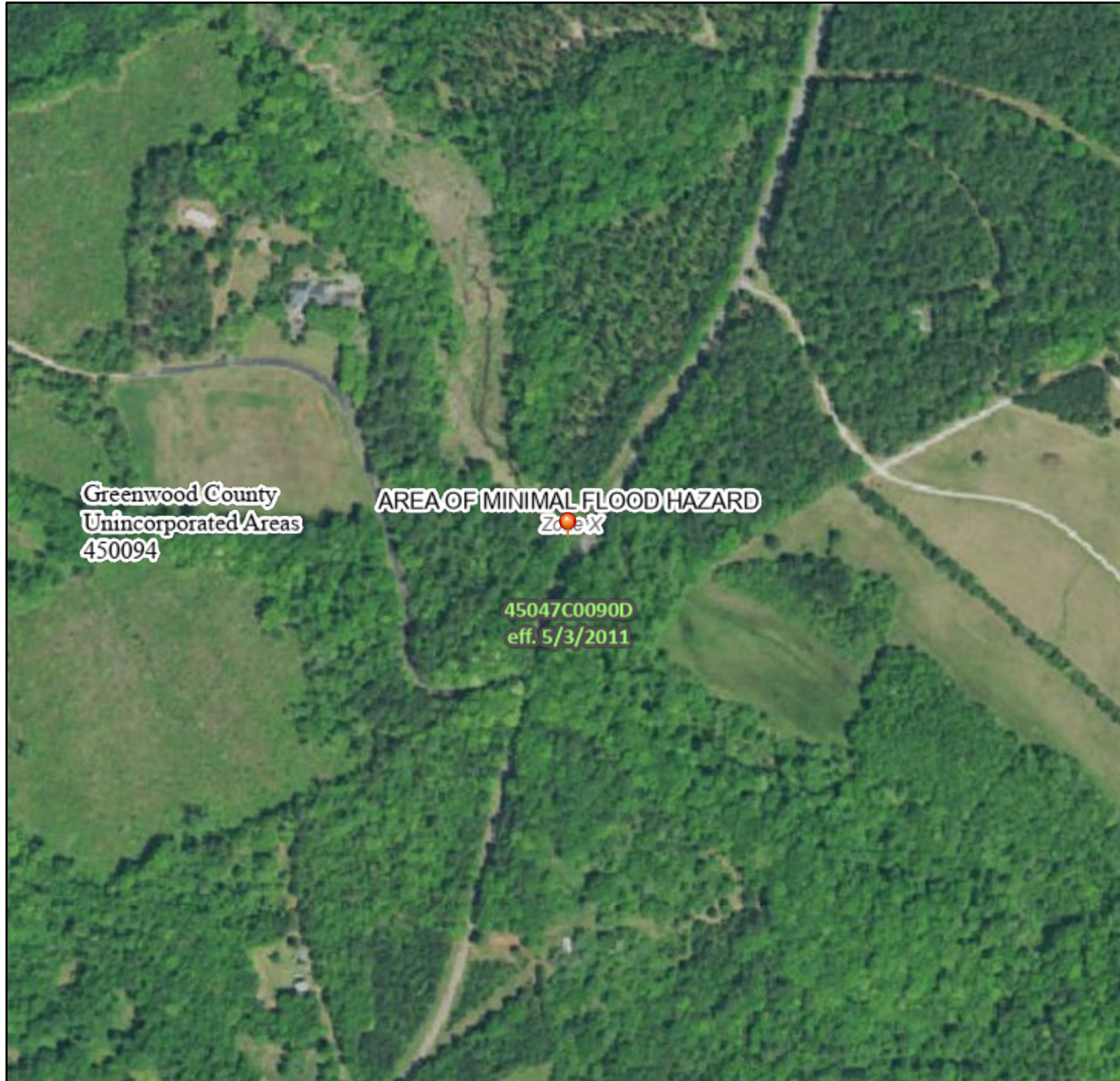
- City of Prayer & Faith Ministries
- Feature 1
- S-230 over ?, Townsend Rd., Greenwood (3322)



National Flood Hazard Layer FIRMette



82°13'34"W 34°16'24"N



1:6,000

82°12'56"W 34°15'54"N

Basemap Imagery Source: USGS National Map 2023

Legend

SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT

SPECIAL FLOOD HAZARD AREAS		Without Base Flood Elevation (BFE) <i>Zone A, V, A99</i>
		With BFE or Depth <i>Zone AE, AO, AH, VE, AR</i>
		Regulatory Floodway
OTHER AREAS OF FLOOD HAZARD		0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile <i>Zone X</i>
		Future Conditions 1% Annual Chance Flood Hazard <i>Zone X</i>
		Area with Reduced Flood Risk due to Levee. See Notes. <i>Zone X</i>
		Area with Flood Risk due to Levee <i>Zone D</i>
OTHER AREAS		NO SCREEN Area of Minimal Flood Hazard <i>Zone X</i>
		Effective LOMRs
GENERAL STRUCTURES		Area of Undetermined Flood Hazard <i>Zone D</i>
		Channel, Culvert, or Storm Sewer
		Levee, Dike, or Floodwall
OTHER FEATURES		20.2 Cross Sections with 1% Annual Chance
		17.5 Water Surface Elevation
		Coastal Transect
		Base Flood Elevation Line (BFE)
		Limit of Study
MAP PANELS		Jurisdiction Boundary
		Coastal Transect Baseline
		Profile Baseline
		Hydrographic Feature
		Digital Data Available
		No Digital Data Available
		Unmapped

The pin displayed on the map is an approximate point selected by the user and does not represent an authoritative property location.



This map complies with FEMA's standards for the use of digital flood maps if it is not void as described below. The basemap shown complies with FEMA's basemap accuracy standards

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on **10/29/2024 at 2:37 PM** and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

This map image is void if the one or more of the following map elements do not appear: basemap imagery, flood zone labels, legend, scale bar, map creation date, community identifiers, FIRM panel number, and FIRM effective date. Map images for unmapped and unmodernized areas cannot be used for regulatory purposes.

BRIDGE SCOPE AND RISK ASSESSMENT FORM

COUNTY: Greenwood

DATE: 11/04/2024

ROAD #: S-230

STREAM CROSSING: Townsend Creek

Purpose & Need for the Project:

S-230 (Townsend Rd) Emergency Bridge Replacement over Townsend Creek in Greenwood County (Hurricane Helene Damage). Bridge has been damaged from Hurricane Helene and is no longer safe or functional. Route is currently closed to traffic and a detour is in place. Replacement under emergency funds.

I. FEMA Acknowledgement

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

Panel Number: 54047C0090D Effective Date: 05/03/2011 (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: Zone A. Bridge will be designed for backwater criteria.

- 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. 24.335 Sheet No. 16 (See Attached)
 No

B. Historical Highwater Data

a. USGS Gage Yes Gage No. _____ Results: _____
 No

b. SCDOT/USGS Documented Highwater Elevations
 Yes Results: 394.2
 No

c. Existing Plans Yes See Above
 No

V. Field Review

A. Existing Bridge

Length: 75 ft. Width: 27.5 ft. Max. span Length: 15 ft.

Alignment: Tangent Curved

Bridge Skewed: Yes No Angle: _____

End Abutment Type: spill through slopes

Riprap on End Fills: Yes No Condition: in need of riprap

Superstructure Type: precast concrete panels

Substructure Type: timber piles

Utilities Present: Yes No
Describe:

Overhead power parallel to bridge upstream
--

Debris Accumulation on Bridge: Percent Blocked Horizontally: 5 %
Percent Blocked Vertically: 10 %

Hydraulic Problems: Yes No
Describe:

--

BRIDGE SCOPE AND RISK ASSESSMENT FORM

V. Field Review (cont.)

B. Hydraulic Features

a. Scour Present: Yes No Location: some bank erosion

b. Distance from F.G. to Normal Water Elevation: 17.5 ft.

c. Distance from Low Steel to Normal Water Elev.: 16.5 ft.

d. Distance from F.G. to High Water Elevation: 11 ft.

e. Distance from Low Steel to High Water Elev.: 10 ft.

f. Channel Banks Stable: Yes No

Describe: relatively stable upstream and downstream

g. Soil Type: silty sands

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.

N/A

C. Existing Roadway Geometry

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

Yes No

Describe:

Bridge currently closed due to storm damage (tree fell on bridge and cracked superstructure)

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

Yes (low volume criteria)

If "No", will the proposed bridge be:

Staged Constructed

Replaced on New Alignment

BRIDGE SCOPE AND RISK ASSESSMENT FORM

VI. Field Review (cont.)

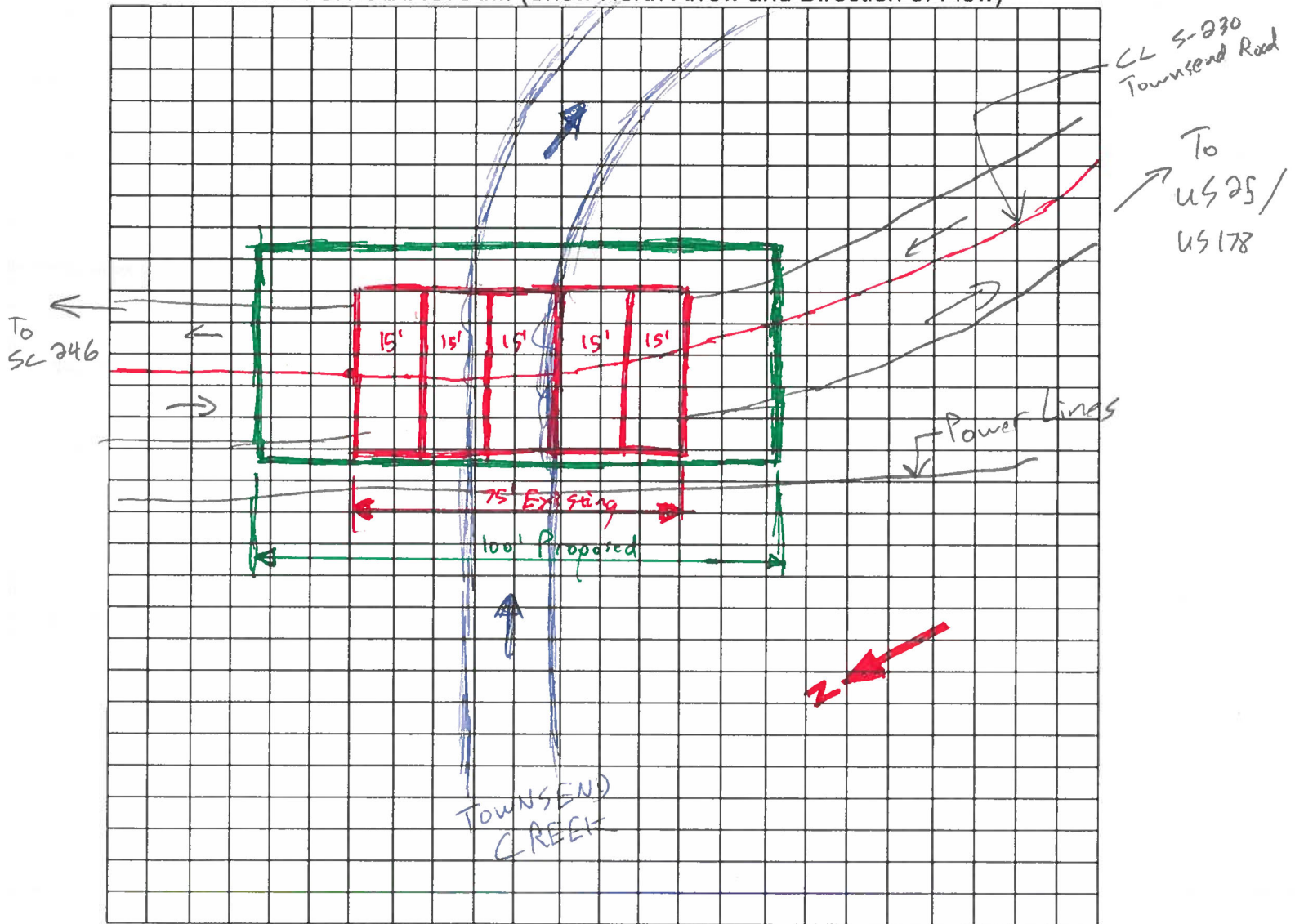
A. Proposed Bridge Recommendation:

Length: 100 ft. Width: 33 ft. Elevation: hold F.G. ft.

Span Arrangement: 100' single span box beam

Notes: Symmetrically lengthen and use a 100' single span box beam bridge. One additional unit needed for PC located on bridge (most of bridge in tangent).
Bridge will be superelevated for the curve at beginning of bridge. No skew.

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



Performed By: John Carr

**South Carolina Department of Transportation
Location and Hydraulic Design of Encroachments on Floodplains Checklist**

23 CFR 650, this regulation shall apply to all encroachments and to all actions which affect base floodplains, except for repairs made with emergency funds. Note: These studies shall be summarized in the environmental review documents prepared pursuant to 23 CFR 771.

I. PROJECT DESCRIPTION

S-24-230 Bridge Replacement over Townsend Creek in Greenwood County.
Asset ID: 3322 (Bridge Package 30)

- A. Narrative Describing Purpose and Need for Project
- a. Relevant Project History:
 - b. General Project Description and Nature of Work (attach Location and Project Map):
 - c. Major Issues and Concerns:

Bridge has been damaged from Hurricane Helene and is no longer safe or functional. Route is currently closed to traffic and a detour is in place. Replacement under emergency funds.

- B. Are there any floodplain(s) regulated by FEMA located in the project area?
Yes No

- C. Will the placing of fill occur within a 100-year floodplain?
Yes No

- D. Will the existing profile grade be raised within the floodplain?

No. The profile is not expected to be raised.

- E. If applicable, please discuss the practicability of alternatives to any longitudinal encroachments.

The longitudinal encroachments will be negligible if any on this project.

- F. Please include a discussion of the following: commensurate with the significance of the risk or environmental impact for all alternatives containing encroachments and those actions which would support base floodplain development:

a. What are the risks associated with implementation of the action?

Risks are minimal. The new bridge should qualify for a statement of no impact.

b. What are the impacts on the natural and beneficial floodplain values?

No impacts are anticipated.

c. What measures were used to minimize floodplain impacts associated with the action?

No impacts are anticipated.

d. Were any measures used to restore and preserve the natural and beneficial floodplain values impacted by the action?

No impacts are anticipated.

G. Please discuss the practicability of alternatives to any significant encroachments or any support of incompatible floodplain development.

No encroachments are anticipated.

H. Were local, state, and federal water resources and floodplain management agencies consulted to determine if the proposed highway action is consistent with existing watershed and floodplain management programs and to obtain current information on development and proposed actions in the affected? Please include agency documentation.

All analysis for the project will be performed in accordance with SCDOT, FEMA, and local regulations.

Levi McLeod Digitally signed by Levi McLeod
Date: 2024.11.01 10:01:52
-04'00'
SCDOT Hydraulic Engineer

11/1/24
Date



U.S. Department of Transportation
Federal Highway Administration

DETAILED DAMAGE INSPECTION REPORT

(Title 23, Federal-aid Highways)

Report Number
24-006-NFA-C03

Sheet
1 of 2

Location (Name of Road and Milepost)
S-230 (Townsend Rd.) - MP 0.300-2.140 - 34.2693, -82.2205

FHWA Disaster Number
SC202403
Inspection Date
10/10/2024

Description of Damage:
Exterior deck slab cracked and displaced approximately 2" downward. Slab pulled away from adjacent slab.

Federal-aid Route Number
S-230
State
SC
County
Greenwood

Cost Estimate

Description of Work to Date (Equipment, Labor, and Materials)	Unit	Unit Price	Quantity	Cost	
				Completed	Remaining

Emergency Repair

Method
 Local Forces
 State Forces
 Contract

Subtotal	\$0.00
PE/CE	\$0.00
Emergency Repair Total	



U.S. Department
of Transportation
Federal Highway
Administration

DETAILED DAMAGE INSPECTION REPORT

(Title 23, Federal-aid Highways)

Report Number 24-006-NFA-C03
Sheet <u>2</u> of <u>2</u>
FHWA Disaster Number SC202403
Inspection Date 10/10/2024
Federal-aid Route Number S-230
State SC County Greenwood

Location (Name of Road and Milepost)
S-230 (Townsend Rd.) - MP 0.300-2.140 - 34.2693, -82.2205

Description of Damage:
Exterior deck slab cracked and displaced approximately 2" downward. Slab pulled away from adjacent slab.

Cost Estimate

Permanent Restoration	Description of Work to Date (Equipment, Labor, and Materials)	Unit	Unit Price	Quantity	Cost	
	Mobilization (per site)	EA	\$32,948.89	1	\$32,948.89	
	Traffic Control (per day-Single and Dual Lane Closures)	EA	\$6,006.53	3	\$18,019.59	
	Bridge Replacement	SF	\$300.00	38	\$11,250.00	
	Unclassified Excavation	CY	\$84.33	30	\$2,529.90	
	Guardrail - W-beam	LF	\$69.44	200	\$13,888.00	
<input type="checkbox"/> Local Forces <input type="checkbox"/> State Forces <input checked="" type="checkbox"/> Contract				Subtotal	\$78,636.38	
PE/CE				10%	\$7,863.64	
				Right-of-Way	\$0.00	
				Perm. Repair Totals	\$86,500.02	

Environmental Assessment Recommendation <input checked="" type="checkbox"/> Categorical Exclusion <input type="checkbox"/> EA/EIS	Estimated Total	\$86,500.02
Recommendation <input type="checkbox"/> Eligible <input checked="" type="checkbox"/> Ineligible	FHWA Engineer	Date
Concurrence <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	State Engineer <i>Michael...</i> 2024.10.11 10:17:06 -04'00'	Date 10/11/2024
Concurrence <input type="checkbox"/> Yes <input type="checkbox"/> No	Local Agency Representative	Date

