

DEPARTMENT OF THE ARMY WILMINGTON DISTRICT, CORPS OF ENGINEERS 69 DARLINGTON AVENUE WILMINGTON, NORTH CAROLINA 28403-1343

November 10, 2022

Regulatory Division

Action ID: SAW-2013-01833 (STIP Nos. I-4400/I-4700)

Mr. Michael Turchy
Environmental Coordination and Permitting Group Manager
Environmental Analysis Unit
North Carolina Department of Transportation
1598 Mail Service Center
Raleigh, North Carolina 27699-1598

Dear Mr. Turchy:

I refer to your permit modification request of October 18, 2022, to modify impacts to waters of the U.S. at two previously permitted sites (Sites 30 and 31) in the I-4700 portion of the I-4400/I-4700 project.

As background, STIP I-4400 and STIP I-4700 are considered to be one project for permitting purposes. STIP I-4400 is 13.6 miles in length and begins at US 25 (Exit 54) near Hendersonville and extends along I-26 west to NC 280 (Exit 40). STIP I-4700 is 8.6 miles in length and extends along I-26 from NC 280 west to the I-40/I-240 interchange. The entire project corridor is 22.2 miles in length and is located on I-26 in Henderson and Buncombe Counties, North Carolina.

The U.S. Army Corps of Engineers (USACE) issued a Department of the Army Individual Permit (IP) which authorized impacts to waters of the U.S. for Phase 1 of the project (Sections I-4700 A & B) to the North Carolina Department of Transportation (NCDOT) on June 21, 2019. On September 16, 2019, the USACE issued a modification to the IP for this project to authorize impacts to waters of the U.S. for Phase 2 of the project (Sections I-4400 BB and I-4400 C). On March 25, 2021, the USACE issued a modification to change the type of catchment device used for the work over the French Broad River.

As noted in the current modification request, Site 30 is located within the bifurcated section of I-26. An existing 66" CMP conveys stream SDX from the bifurcated section under westbound I-26 to its outfall at Site 31, east of the interstate. Your

modification request concerns changes to previously authorized impacts to waters of the U.S. as follows:

Site 30 – The existing 66" RCP would be replaced with a 9'x7' RCBC and bank stabilization would be placed at this end of the culvert. This change would result in an additional 8 If of permanent impact/loss (culvert) and 25 If of permanent impact (bank stabilization) at Site 30. This change would also result in a reduction of previously authorized temporary impacts.

Site 31 –The new RCBC would be replaced, as described above, and there would be a new channel change (with embedded rip rap) at this end of the culvert. This change would result in a reduction of 30 lf of previously authorized permanent impact/loss (culvert) but would require 20 lf of new impact/loss from the channel change. The overall temporary impact amount would not change.

No additionally compensatory mitigation would be required because these changes would result in a reduction of 2 lf of permanent impact/loss of waters.

The permit modification request was reviewed by the U.S. Fish and Wildlife Service, the N.C. Division of Water Resources (NCDWR), and the N.C. Wildlife Resources Commission. No objections were raised. NCDWR issued a Modified 401 Water Quality Certification on November 3, 2022 (enclosed).

The USACE has also reviewed NCDOT's modification request and has no objections. As such, special condition number 2 of the I-4400/I-4700 permit has been revised to reflect the modified plan sheets (enclosed).

If you have any questions, please contact Lori Beckwith, Regulatory Project Manager, Asheville Regulatory Field Office, at loretta.a.beckwith@usace.army.mil or at 828-271-7980, ext. 4223.

Sincerely,

Monte Matthews WRDA Branch Chief Wilmington District

Enclosures

Copies furnished by email with enclosures:

USFWS, Holland Youngman

USEPA, Amanetta Sommerville

NCDWR, Kevin Mitchell

NCWRC, Dave McHenry

NCDOT, Bill Barrett

NCDOT, Roger Bryan

NCDOT, Luke Middleton

NCDOT, Michael Patton

NCDOT, Kevin Barnett

SPECIAL CONDITIONS Revised March 25, 2021 November 10, 2022 ACTION ID. SAW-2013-01883 NC DEPARTMENT OF TRANSPORTATION

NC DEPARTMENT OF TRANSPORTATION I-26 WIDENING, HENDERSON AND BUNCOMBE COUNTIES STIP NO. 1-4400/I-4700

WORK LIMITS/NOTIFCATION

- 1) The entire 22.2 mile project is identified as STIP I-4400/I-4700. This permit only authorizes work on Sections I-4700 A, I-4700 B, I-4400 C, and I-4400 BB of STIP I-4400/I-4700; also known as "Phase 1" and "Phase 2" for permitting purposes. Construction on the remaining sections (i.e., I-4400 BA, and I-4400 A) of the I-4400/I-4700 project shall not commence until: (a) final design for those sections/phases has been completed and submitted to the U.S. Army Corps of Engineers (Corps); (b) the Permittee has minimized impacts to waters and wetlands to the maximum extent practicable for those sections/phases and the Corps concurs with this assessment through standard Merger 4B and 4C meetings; (c) any modification(s) to the plans for those sections/phases have been approved by the Corps in writing; and (d) a final compensatory mitigation plan for those sections/phases has been submitted by the Permittee and approved by the Corps.
- 2) All work authorized by this permit shall be performed in strict compliance with the attached permit plans titled:
 - "Wetland and Surface Water Impacts Permit, I-4700", permit drawing sheets 1-97 (Phase 1), as revised by permit drawing sheets 2, 2A, 59, 60-62 of 97, revised on October 13, 2022, and sheet 63 of 97, revised on October 26, 2022.
 - "Wetland and Surface Water Impacts Permit, I-4400 C", sheets 1-43
 (Phase 2)
 - "Wetland and Surface Water Impacts Permit, I-4400 BB," permit drawing sheets 1-83, dated August 6, 2019 (Phase 2).

The plans referenced above are now part of this permit. The Permittee shall ensure that the construction design plans for this project do not deviate from the permit plans attached to this authorization. Any modification to the attached permit plans must be approved by the US Army Corps of Engineers prior to any active construction in waters or wetlands.

3) The permittee shall ensure that the project is implemented in strict accordance with all commitments in the attached document titled, "I-26 Widening, STIP Project Nos. I-4400 & I-4700 Project Commitments", dated June 19, 2019 March 17, 2021 (Version € 6). This document is 38 pages long and was created to

SPECIAL CONDITIONS

Revised March 25, 2021 November 10, 2022 ACTION ID. SAW-2013-01883 NC DEPARTMENT OF TRANSPORTATION

NC DEPARTMENT OF TRANSPORTATION I-26 WIDENING, HENDERSON AND BUNCOMBE COUNTIES STIP NO. 1-4400/I-4700

compile project commitments that NCDOT has agreed to in a number of other documents, to include commitments from the following:

- Combined Final Environmental Impact Statement (EIS), Final Section 4(f)
 Evaluation, and Record of Decision (ROD) (March 2019)
- Biological Assessment (September 2018)
- Biological Opinion (BO) (February 2019)
- I-26 Bridge Over the French Broad River Construction and Demolition (Nevember 2018 March 17, 2021)
- River Safety Plan (September 2018 March 17, 2021)
- Strategic Communication Plan for the Construction of the I-26 Bridge over the French Broad River (September 2018)
- Section 106 Memorandum of Agreement (July 2018)
- 4) Unauthorized Dredge or Fill: Except as authorized by this permit or any U.S. Army Corps of Engineers approved modification to this permit, no excavation, fill, or mechanized land-clearing activities shall take place at any time in the construction or maintenance of this project, within waters or wetlands, or shall any activities take place that cause the degradation of waters or wetlands. There shall be no excavation from, waste disposal into, or degradation of, jurisdictional wetlands or waters associated with this permit without appropriate modification of this permit, including appropriate compensatory mitigation. This prohibition applies to all borrow and waste activities connected with this project.
- 5) Maintain Flows and Circulation Patterns of Waters: Except as specified in the plans attached to this permit, no excavation, fill or mechanized land-clearing activities shall take place at any time in the construction or maintenance of this project, in such a manner as to impair normal flows and circulation patterns within waters or wetlands or to reduce the reach of waters and/or wetlands.
- 6) Permit Distribution: The Permittee shall require its contractors and/or agents to comply with the terms and conditions of this permit in the construction and maintenance of this project, and shall provide each of its contractors and/or agents associated with the construction or maintenance of this project with a copy of this permit. A copy of this permit, including all conditions, drawings and attachments shall be available at the project site during the construction and maintenance of this project.

SPECIAL CONDITIONS Revised March 25, 2021 November 10, 2022

ACTION ID. SAW-2013-01883 NC DEPARTMENT OF TRANSPORTATION I-26 WIDENING, HENDERSON AND BUNCOMBE COUNTIES STIP NO. 1-4400/I-4700

7) Pre-Construction Meeting: The Permittee shall schedule and attend a preconstruction meeting between its representatives, the contractors representatives, and the U.S. Army Corps of Engineers, Asheville Regulatory

Field Office, NCDOT Regulatory Project Manager, prior to any work within jurisdictional waters and wetlands to ensure that there is a mutual understanding of all the terms and conditions contained with this Department of Army Permit. The Permittee shall provide the Corps, Asheville Regulatory Field Office, NCDOT Project Manager, with a copy of the final permit plans at least two weeks prior to the preconstruction meeting along with a description of any changes that have been made to the project's design, construction methodology or construction timeframe. The Permittee shall schedule the preconstruction meeting for a time frame when the Corps and NCDWR Project Managers can attend. The Permittee shall invite the Corps and NCDWR Project Managers a minimum of thirty (30) days in advance of the scheduled meeting in order to provide those individuals with ample opportunity to schedule and participate in the required meeting. The thirty (30) day requirement can be waived with the concurrence of the Corps.

- 8) Notification of Construction Commencement and Completion: The Permittee shall notify the U.S. Army Corps of Engineers in writing prior to beginning the work authorized by this permit and again upon completion of the work authorized by this permit.
- 9) Reporting Address: All reports, documentation, and correspondence required by the conditions of this permit shall be submitted to the following: U.S. Army Corps of Engineers, Wilmington District Asheville Regulatory Field Office, Attn: Lori Beckwith, 151 Patton Ave., Room 208, Asheville, NC 28801-5006, or loretta.a.beckwith@usace.army.mil . The Permittee shall reference the following permit number, SAW-2013-01883, on all submittals.
- 10) Reporting Violations: Violation of these permit conditions or violation of Section 404 of the Clean Water Act or Section 10 of the Rivers and Harbors Act shall be reported to the Corps in writing and by telephone at: 828-271-7980, ext. 4223, within 24 hours of the Permittee's discovery of the violation.
- 11) Permit Revocation: The Permittee, upon receipt of a notice of revocation of this permit or upon its expiration before completion of the work will, without expense to the United States and in such time and manner as the Secretary of the Army or his authorized representative may direct, restore the water or wetland to its pre-project condition.

SPECIAL CONDITIONS Revised March 25, 2021 November 10, 2022 ACTION ID. SAW-2013-01883 NC DEPARTMENT OF TRANSPORTATION I-26 WIDENING, HENDERSON AND BUNCOMBE COUNTIES STIP NO. 1-4400/I-4700

RELATED LAWS

- 12) Clean Fill: The Permittee shall use only clean fill material for this project. The fill material shall be free from items such as trash, construction debris, metal and plastic products, and concrete block with exposed reinforcement bars. Soils used for fill shall not be contaminated with any toxic substance in concentrations governed by Section 307 of the Clean Water Act. Unless otherwise authorized by this permit, all fill material placed in waters or wetlands shall be generated from an upland source.
- 13) Water Contamination: All mechanized equipment shall be regularly inspected and maintained to prevent contamination of waters and wetlands from fuels, lubricants, hydraulic fluids, or other toxic materials. In the event of a spill of petroleum products or any other hazardous waste, the Permittee shall immediately report it to the N.C. Division of Water Resources at (919) 733-3300 or (800) 858-0368 and provisions of the North Carolina Oil Pollution and Hazardous Substances Control Act shall be followed.
- 14) Federally Listed Species/Biological Opinion: This Department of the Army permit does not authorize you to take a federally listed species, in particular the Appalachian elktoe (Alasmidonta raveneliana) or the gray bat (Myotis grisescens). In order to legally take a federally listed species, you must have separate authorization under the Endangered Species Act (ESA) (e.g., an ESA Section 10 permit, or a Biological Opinion (BO) under ESA Section 7, with "incidental take" provisions with which you must comply). The U.S. Fish and Wildlife Service issued a BO for this project titled, "I-26 Widening from US 25 Near Hendersonville to I-40/I-240 South of Asheville, Henderson and Buncombe Counties, North Carolina", on February 22, 2019. This BO contains mandatory terms and conditions to implement the reasonable and prudent measures that are associated with "incidental take" that is also specified in the BO. Your authorization under this permit is conditional upon your compliance with all of the mandatory terms and conditions associated with incidental take of the attached BO; the terms and conditions of the BO are incorporated by reference in this permit. Failure to comply with the terms and conditions associated with incidental take of this BO, where a take of the federally listed species occurs, would

SPECIAL CONDITIONS Revised March 25, 2021 November 10, 2022 ACTION ID. SAW-2013-01883

NC DEPARTMENT OF TRANSPORTATION I-26 WIDENING, HENDERSON AND BUNCOMBE COUNTIES STIP NO. 1-4400/I-4700

constitute an unauthorized take, and it would also constitute non-compliance with your permit. The U.S. Fish and Wildlife Service is the appropriate authority to determine compliance with the terms and conditions of its BO, and with the ESA.

- 15) Endangered Species Act: The Permittee shall implement all necessary measures to ensure the authorized activity does not kill, injure, capture, harass, or otherwise harm any federally listed threatened or endangered species. While accomplishing the authorized work, if the Permittee discovers or observes an injured or dead threatened or endangered species, the U.S. Army Corps of Engineers, Wilmington District, Asheville Regulatory Field Office, Attn: Lori Beckwith at 828-271-7980, ext. 4223, or loretta.a.beckwith@usace.army.mil will be immediately notified.
- 16) NCDOT shall abide by all stipulations identified in the attached Memorandum of Agreement titled, "MEMORANDUM OF AGREEMENT AMONG THE FEDERAL HIGHWAY ADMINISTRATION, the NATIONAL PARK SERVICE, the NORTH CAROLINA DEPARTMENT OF TRANSPORTATION, and the NORTH CAROLINA STATE HISTORIC PRESERVATION OFFICE PURSUANT TO 36 CFR 800.6 regarding the REPLACEMENT OF BRIDGE 205 CARRYING THE BLUE RIDGE PARKWAY OVER INTERSTATE 26 BUNCOMBE COUNTY, NORTH CAROLINA NCDOT TIP ID I-4700b", dated May 30, 2018 (last signature). This MOA is incorporated herein by reference.

AQUATIC LIFE/CULVERTS

- 17) Prohibitions on Concrete: The Permittee shall take measures necessary to prevent live or fresh concrete, including bags of uncured concrete, from coming into contact with any water in or entering into waters of the United States. Water inside coffer dams or casings that has been in contact with concrete shall only be returned to waters of the United States when it no longer poses a threat to aquatic organisms (concrete is set and cured).
- 18) Unless otherwise requested in the application and depicted on the approved permit plans, culverts greater than 48 inches in diameter shall be buried at least one foot below the bed of the stream. Culverts 48 inches in diameter and less shall be buried or placed on the stream bed as practicable and appropriate to maintain aquatic passage, and every effort shall be made to maintain existing channel slope. The bottom of the culvert shall be placed at a depth below the natural stream bottom to provide for passage during drought or low flow

SPECIAL CONDITIONS Revised March 25, 2021 November 10, 2022

ACTION ID. SAW-2013-01883 NC DEPARTMENT OF TRANSPORTATION I-26 WIDENING, HENDERSON AND BUNCOMBE COUNTIES STIP NO. 1-4400/I-4700

conditions. Culverts shall be designed and constructed in a manner that minimizes destabilization and head cutting.

- 19) Measures shall be included in the construction/installation of culverts that will promote the safe passage of fish and other aquatic organisms. The dimension, pattern, and profile of the stream above and below a pipe or culvert shall not be modified by widening the stream channel or by reducing the depth of the stream in connection with the construction activity. The width, height, and gradient of a proposed opening shall be such as to pass the average historical low flow and spring flow without adversely altering flow velocity. Spring flow should be determined from gauge data, if available. In the absence of such data, bankfull flow can be used as a comparable level.
- 20) Aquatic Life Movement: Unless otherwise requested in the application and depicted on the approved permit plans, no activity may substantially disrupt the necessary life cycle movements of those species of aquatic life indigenous to the waterbody, including those species that normally migrate through the area. All discharges of dredged or fill material within waters of the United States shall be designed and constructed to maintain low flows to sustain the movement of aquatic species.
- 21) The Permittee shall implement all reasonable and practicable measures to ensure that equipment, structures, fill pads, work, and operations associated with this project do not adversely affect upstream and/or downstream reaches. Adverse effects include, but are not limited to, channel instability, flooding, and/or stream bank erosion. The Permittee shall routinely monitor for these effects, cease all work when detected, take initial corrective measures to correct actively eroding areas, and notify this office immediately. Permanent corrective measures may require additional authorization by the U.S. Army Corps of Engineers.
- 22) Culverts placed within wetlands must be installed in a manner that does not restrict the flows and circulation patterns of waters of the United States. Culverts placed across wetland fills purely for the purposes of equalizing surface water shall not be buried, but the culverts must be of adequate size and/or number to ensure unrestricted transmission of water.

SPECIAL CONDITIONS Revised March 25, 2021 November 10, 2022 ACTION ID. SAW-2013-01883 NC DEPARTMENT OF TRANSPORTATION I-26 WIDENING, HENDERSON AND BUNCOMBE COUNTIES

STIP NO. 1-4400/I-4700

SEDIMENT AND EROSION CONTROL

- 23) As noted on pages 34-38 of the attached document titled, "I-26 Widening, STIP Project Nos. I-4400 & I-4700 Project Commitments", June 19, 2019 March 17, 2021 (Version § 6), the permittee shall ensure that (1) the site specific sediment and erosion control measures, and (2) sediment and control measures for all other portions of the 22.2 mile corridor, are strictly implemented and maintained. This document is 38 pages long and was created to compile project commitments that NCDOT has agreed to in a number of other documents, to include commitments from the following:
 - Combined Final Environmental Impact Statement (EIS), Final Section 4(f)
 Evaluation, and Record of Decision (ROD) (March 2019)
 - Biological Assessment (September 2018)
 - Biological Opinion (BO) (February 2019)
 - I-26 Bridge Over the French Broad River Construction and Demolition (Nevember 2018 March 17, 2021)
 - River Safety Plan (September 2018 March 17, 2021)
 - Strategic Communication Plan for the Construction of the I-26 Bridge over the French Broad River (September 2018)
 - Section 106 Memorandum of Agreement (July 2018)
- 24) During the clearing phase of the project, heavy equipment shall not be operated in surface waters or stream channels. Temporary stream crossings will be used to access the opposite sides of stream channels. All temporary diversion channels and stream crossings will be constructed of non-erodible materials. Grubbing of riparian vegetation will not occur until immediately before construction begins on a given segment of stream channel.
- 25) No fill or excavation impacts for the purposes of sedimentation and erosion control shall occur within jurisdictional waters, including wetlands, unless the impacts are included on the plan drawings and specifically authorized by this permit. This includes, but is not limited to, sediment control fences and other barriers intended to catch sediment losses.

SPECIAL CONDITIONS

Revised March 25, 2021 November 10, 2022 ACTION ID. SAW-2013-01883 NC DEPARTMENT OF TRANSPORTATION I-26 WIDENING, HENDERSON AND BUNCOMBE COUNTIES STIP NO. 1-4400/I-4700

26) The Permittee shall remove all sediment and erosion control measures placed in waters and/or wetlands, and shall restore natural grades on those areas, prior to project completion.

BORROW AND WASTE

- 27) To ensure that all borrow and waste activities occur on high ground and do not result in the degradation of adjacent waters and wetlands, except as authorized by this permit, the Permittee shall require its contractors and/or agents to identify all areas to be used as a borrow and/or waste site(s) associated with this project and provide this information to the U.S. Army Corps of Engineers, along with the following:
 - a) Borrow Sites: When any portion of an aquatic resource(s) (i.e., a stream, river, wetland, pond, seep, and/or spring) is located within the boundaries of the proposed borrow site(s), or within a distance of 400 feet from the nearest boundary of the proposed borrow site(s), the Permittee shall provide the U.S. Army Corps of Engineers with appropriate maps indicating: the locations of the proposed borrow site(s); boundaries of the proposed borrow site(s), and; delineation(s) of all aquatic resources (as described above) within the site, and out to 400 feet from the boundary of the site, as soon as such information is available.
 - b) Waste Sites: When any portion of an aquatic resource(s) (i.e., a stream, river, wetland, pond, seep, and/or spring) is located within the boundaries of the proposed waste site(s), the Permittee shall provide the U.S. Army Corps of Engineers with appropriate maps indicating: the locations of the proposed waste site(s); boundaries of the proposed waste site(s), and; delineation(s) of all aquatic resources (as described above) within the site, as soon as such information is available.

For those areas proposed as waste sites that have any aquatic resources within the boundaries, or borrow sites that have any aquatic resources within the boundary or out to 400 feet beyond the boundaries, the Permittee shall not approve those borrow and/or waste sites until the U.S. Army Corps of Engineers issues written confirmation that an area does or does not contain potentially jurisdictional resources. All delineations of aquatic sites on borrow and/or waste sites shall be verified by the U.S. Army Corps of Engineers and shown on the

SPECIAL CONDITIONS Revised March 25, 2021 November 10, 2022 ACTION ID. SAW-2013-01883 NC DEPARTMENT OF TRANSPORTATION I-26 WIDENING, HENDERSON AND BUNCOMBE COUNTIES STIP NO. 1-4400/I-4700

approved reclamation plans. The Permittee shall ensure that all borrow and/or waste sites comply with Special Condition #4 of this permit. Additionally, the Permittee shall produce and maintain documentation of all borrow and waste sites associated with this project. When aquatic resources are located within

these designated areas, this documentation will include data regarding soils, vegetation, hydrology, delineation(s) of aquatic sites, and any jurisdictional determinations made by the Corps to clearly demonstrate compliance with Special Condition #4. All information will be available to the U.S. Army Corps of Engineers upon request. The Permittee shall require its contractors to complete and execute reclamation plans for each borrow and/or waste site and provide written documentation that the reclamation plans have been implemented and all work is completed to the Permittee. For areas with aquatic resources that the Corps has determined are potentially jurisdictional (or jurisdictional), this documentation will be provided to the U.S. Army Corps of Engineers within 30 days of the completion of the reclamation work. The permittee shall ensure that (1) waste material placed in a project-related waste site(s) does not migrate into an aquatic resource, even if that resource is located outside the boundaries of the waste site, and (2) that any project-related activities in borrow sites does not adversely impact any off-site waters, to include dewatering (due to project-related excavation/borrow activities in the borrow site) of those off-site waters.

NAVIGATION/SECTION 10 WATERS (FRENCH BROAD RIVER)

- 28) This permit does not authorize the interference with any proposed Federal project, and the Permittee will not be entitled to compensation for damage or injury to the authorized structure or work which may be caused from future operations undertaken by the United States in the public interest. Except as authorized by this permit, or any approved modification to this permit, no attempt will be made by the Permittee to prevent the full and free use by the public of all navigable waters at or adjacent to the authorized work. Except as authorized by this permit, or any approved modification to this permit, the permitted activity must not interfere with the public's right to free navigation on all navigable waters of the United States.
- 29) The Permittee understands and agrees that, if future operations by the United States require the removal, relocation, or other alteration, of the structure or work herein authorized, or if, in the opinion of the Secretary of the Army or his authorized representative, said structure or work shall cause unreasonable obstruction to the free navigation of the navigable waters, the Permittee will be

SPECIAL CONDITIONS Revised March 25, 2021 November 10, 2022 ACTION ID. SAW-2013-01883 NC DEPARTMENT OF TRANSPORTATION I-26 WIDENING, HENDERSON AND BUNCOMBE COUNTIES STIP NO. 1-4400/I-4700

required, upon due notice from the U.S. Army Corps of Engineers, to remove, relocate, or alter the structural work or obstructions caused thereby, without expense to the United States. No claim shall be made against the United States on account of any such removal, relocation, or alteration.

30) The Permittee, upon receipt of a notice of revocation of this permit or upon its expiration before completion of the work will, without expense to the United States and in such time and manner as the Secretary of the Army or his authorized representative may direct, restore the waterway to its former conditions. If the Permittee fails to comply with this direction, the Secretary or his representative may restore the waterway, by contract or otherwise, and recover the cost from the Permittee.

COMPENSATORY MITIGATION

- 31) In order to compensate for impacts associated with this permit, mitigation shall be provided in accordance with the provisions outlined on the most recent version of the attached Compensatory Mitigation Responsibility Transfer Form. The requirements of this form, including any special conditions listed on this form, are hereby incorporated as special conditions of this permit.
- 32) The permittee shall ensure that the Division Environmental Officer (DEO), or a representative delegated by the DEO, observes all in-water work (i.e., work at or below the ordinary high water mark) on Allen Branch at Sites 5 and 7 on the I-4400 BB Section of this project.

ROY COOPER Governor ELIZABETH S. BISER Secretary RICHARD E. ROGERS, JR.



November 3, 2022

Mr. Michael Turchy
Environmental Coordination and Permitting Group Leader
Project Development and Environmental Analysis
North Carolina Department of Transportation
1598 Mail Service Center
Raleigh, North Carolina, 27699-1598

Subject: Modification to the 401 Water Quality Certification Pursuant to Section 401 of the Federal Clean Water Act with ADDITIONAL CONDITIONS for Proposed improvements to I-26 from NC 225 (US 25 Connector) in Henderson County to I-40 in Buncombe County, Federal Aid Project Nos. NHF-26-1(62)23 / I(MNHF)-026-1(86)9, TIP I-4400/4700. NCDWR Project No. 20181645 v3

Dear Mr. Turchy:

Attached hereto is a modification of Certification No. 004185 issued to The North Carolina Department of Transportation (NCDOT) dated June 19, 2019, and subsequently modified on September 4, 2019, and November 3, 2022. This Certification replaces the Certification issued on October 31, 2022.

If we can be of further assistance, do not hesitate to contact us.

Sincerely,

Omy Chapman Richard E. Rogers, Jr., Director Division of Water Resources

Attachments

Electronic copy only distribution:

Lori Beckwith, US Army Corps of Engineers, Asheville Field Office Roger Bryan, Division 13 Environmental Officer Bill Barret, NC Department of Transportation Carla Dagnino, NC Department of Transportation Amanetta Somerville, US Environmental Protection Agency Holland Youngman, US Fish and Wildlife Service Dave McHenry, NC Wildlife Resources Commission File Copy



Modification to the 401 Water Quality Certification Pursuant to Section 401 of the Federal Clean Water Act with ADDITIONAL CONDITIONS

THIS CERTIFICATION is issued in conformity with the requirements of Section 401 Public Laws 92-500 and 95-217 of the United States and subject to the North Carolina Division of Water Resources (NCDWR) Regulations in 15 NCAC 2H .0500. This certification authorizes the NCDOT to impact an additional 23 linear feet of jurisdictional streams in Buncombe County. The project shall be constructed pursuant to the modification dated received October 18, 2022. The authorized impacts are as described below:

Stream Impacts in the French Broad River Basin

Site	Permanent Fill in Intermittent Stream (linear ft)	Temporary Fill in Intermittent Stream (linear ft)	Permanent Fill in Perennial Stream (linear ft)	Temporary Fill in Perennial Stream (linear ft)	Total Stream Impact (linear feet)	Stream Impacts Requiring Mitigation (linear ft)			
Original approved impacts at Site 30 and 31	0	0	135	80	215	0			
New additional impacts with this approval at Site 30 and 31	0	0	23	-20	3	0			
TOTAL:	0	0	158	60	218	0			

Total Stream Impact for (Site/Modification): 23 linear feet of permanent and -20 linear feet of temporary.

The application provides adequate assurance that the discharge of fill material into the waters of the French Broad River Basin in conjunction with the proposed development will not result in a violation of applicable Water Quality Standards and discharge guidelines. Therefore, the State of North Carolina certifies that this activity will not violate the applicable portions of Sections 301, 302, 303, 306, 307 of PL 92-500 and PL 95-217 if conducted in accordance with the application and conditions hereinafter set forth.

This approval is only valid for the purpose and design that you submitted in your modified application dated received October 18, 2022. All the authorized activities and conditions of certification associated with the original Water Quality Certification dated June 19, 2019 and September 4, 2019 still apply except where superseded by this certification. Should your project change, you are required to notify the NCDWR and submit a new application. If the property is sold, the new owner must be given a copy of this Certification and approval letter and is thereby responsible for complying with all the conditions. If any additional wetland impacts, or stream impacts, for this project (now or in the future) exceed 0.1 acre or 300 linear feet, respectively, additional compensatory mitigation may be required as described in 15A NCAC 2H .0506 (c) (2) and (4). For this approval to remain valid, you are required to comply with all the conditions listed below. In addition, you should obtain all other federal, state, or local permits before proceeding with your project including (but not limited to) Sediment and Erosion control, Coastal Stormwater, Non-discharge, and Water Supply watershed regulations. This Certification shall expire on the same day as the expiration date of the corresponding Corps of Engineers Permit.

Condition(s) of Certification:

This modification is applicable only to the additional proposed activities. All of the authorized activities
and conditions of certification associated with the original Water Quality Certification dated June 19, 2019
and subsequent modification dated September 4, 2019 still apply except where superseded by this
certification.



Violations of any condition herein set forth may result in revocation of this Certification and may result in criminal and/or civil penalties. This Certification shall become null and void unless the above conditions are made conditions of the Federal 404 and/or Coastal Area Management Act Permit. This Certification shall expire upon the expiration of the 404 or CAMA permit.

If you wish to contest any statement in the attached Certification you must file a petition for an administrative hearing. You may obtain the petition form from the Office of Administrative Hearings. You must file the petition with the Office of Administrative Hearings within sixty (60) days of receipt of this notice. A petition is considered filed when it is received in the Office of Administrative Hearings during normal office hours. The Office of Administrative Hearings accepts filings Monday through Friday between the hours of 8:00am and 5:00pm, except for official state holidays. The original and one (1) copy of the petition must be filed with the Office of Administrative Hearings.

The petition may be faxed-provided the original and one copy of the document is received by the Office of Administrative Hearings within five (5) business days following the faxed transmission. The mailing address for the Office of Administrative Hearings is:

Office of Administrative Hearings 6714 Mail Service Center Raleigh, NC 27699-6714

Telephone: (919) 431-3000, Facsimile: (919) 431-3100

A copy of the petition must also be served on DEQ as follows:

Mr. Bill F. Lane, General Counsel Department of Environmental Quality 1601 Mail Service Center

This the 3rd day of November 2022

DIVISION OF WATER RESOURCES

Omy Chapman

Richard E. Rogers, Jr., Director

WQC No. 004185



ROY COOPER Governor ELIZABETH S. BISER Secretary RICHARD E. ROGERS, JR. Director

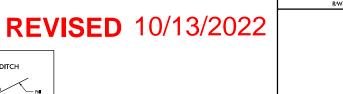


	NCDWR Project No.:	County:	
	Applicant:		
	Project Name:		
	Date of Issuance of 401 Water Qu	ality Certification:	
any subsequent r Unit, North Card may be returned	n of all work approved within the 401 Wa modifications, the applicant is required to plina Division of Water Resources, 1617 M	ter Quality Certification or applicable Buffer Rules, and return this certificate to the 401 Transportation Permit Mail Service Center, Raleigh, NC, 27699-1617. This for the project engineer. It is not	ting orm
Applicant's Cert	tification		
was used in the compliance and	observation of the construction such that the	ate that, to the best of my abilities, due care and diligence construction was observed to be built within substant on and Buffer Rules, the approved plans and	
Signature:		Date:	
Agent's Certific	ation		
was used in the compliance and	observation of the construction such that the	ate that, to the best of my abilities, due care and diligence construction was observed to be built within substant on and Buffer Rules, the approved plans and	ence ntial
Signature:		Date:	
Engineer's Cert	ification		
Partial	Final		
Carolina, having Permittee hereby construction such	been authorized to observe (periodically, state that, to the best of my abilities, due h that the construction was observed to be	ally registered Professional Engineer in the State of No weekly, full time) the construction of the project for to care and diligence was used in the observation of the built within substantial compliance and intent of the 4 d plans and specifications, and other supporting mater	he 401
Signature		Registration No	
Date			

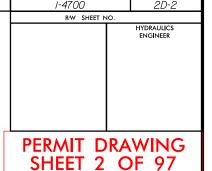


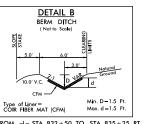
DRAINAGE DITCH DETAILS





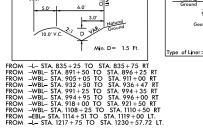
HNTB NORTH CAROLINA, P. G. 12 Six Forks Road, Suite 2 Road

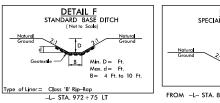


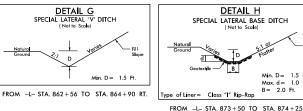


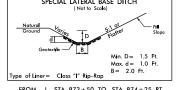
DETAIL C BERM DITCH (Not to Scale) Type of Liner= COIR FIBER MAT (CFM) FROM -L- STA. 1063 + 50 TO STA. 1066 + 75 RT.





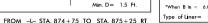


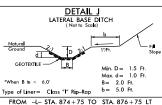


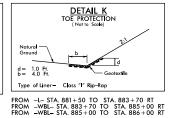


FROM -L- STA. 873+50 TO STA. 874+25 RT FROM -Y15PRC- STA. 10+00 TO STA. 11+95 RT

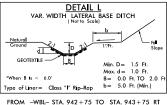


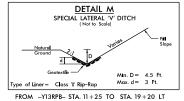


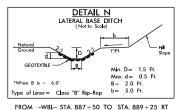


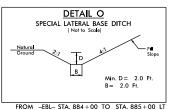


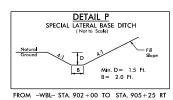
DETAIL D BERM DITCH (Not to Scale)

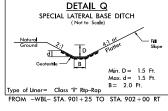


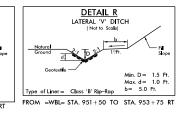


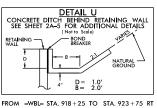


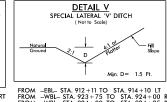


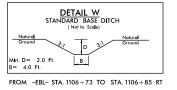






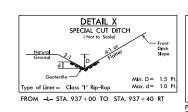


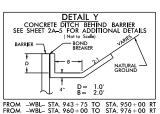


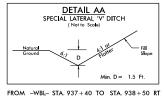


FROM -WBL- STA. 918+25 TO STA. 923+75 RT FROM -WBL- STA, 976+00 TO STA, 980+00 RT

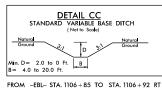


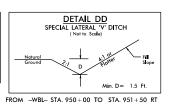


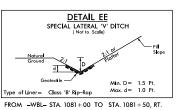


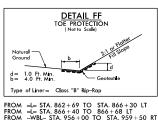


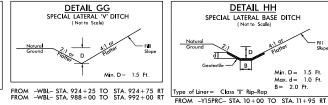


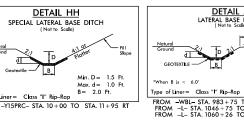


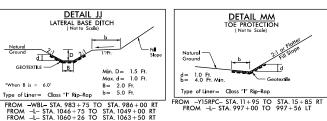


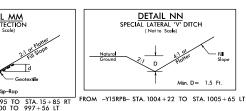




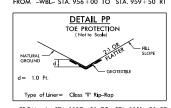


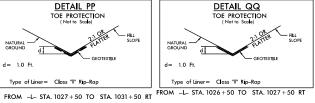


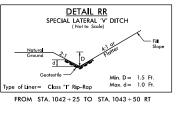


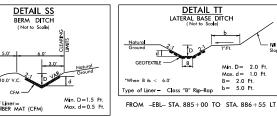


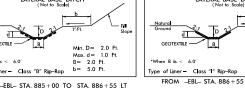


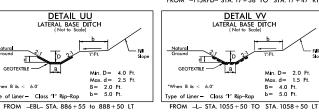


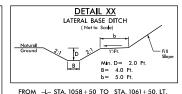


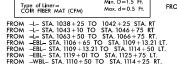




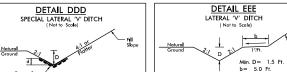














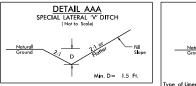
PROJECT REFERENCE NO.

I-4700

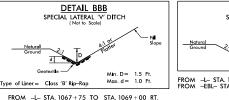
RW SHEET NO.

SHEET NO.

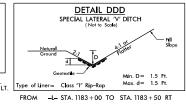
HYDRAULICS







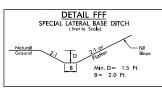
FROM -L- STA. 1078+00 TO STA. 1079+00 LT. FROM -EBL- STA. 1079+00 TO STA. 1080+75 LT.





HNTB HATE MORTH CAROLINA, P.C.
343 E Six Forks Road, Suite
Raleigh, North Carolina 27609
NC License No. C 1554

FROM -WBL- STA. 1081 + 50 TO STA. 1082 + 50 RT



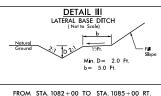
FROM -WBL- STA. 911+00 TO STA. 913+75 RT FROM -WBL- STA. 914+40 TO STA. 918+25 RT FROM -L- STA. 1051+50 TO STA. 1060+25 RT. FROM -WBL- STA. 1118+75 TO STA. 1120+00 LT.

B

Min. D = 1.5 Ft. B = 2.0 Ft.

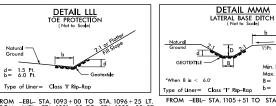
Min. D = 1.5 Ft. FROM -EBL- STA. 1084+50 TO STA. 1086+00 LT. FROM -WBL- STA. 1085+50 TO STA. 1088+50, LT. FROM -WBL- STA. 119+00 TO STA. 1120+50 LT. FROM -L- STA. 1159+02 TO STA. 1614-93 LT. FROM -L- STA. 1159+02 TO STA. 1161+00 LT. FROM -L- STA. 1159+00 TO STA. 1184+00 LT.

Type of Liner= Class 'B' Rip-Rap

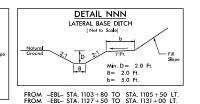




DETAIL JJJ LATERAL 'V' DITCH (Not to Scale)

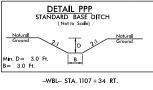












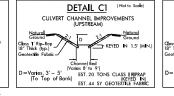
Min. D = 1.5 Ft.

Max. d = 1. B = 2.0 Ft.

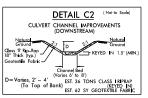


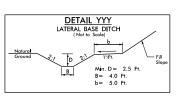






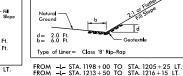
BANK STABILIZATION

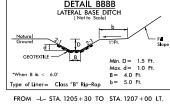




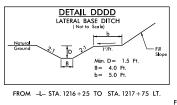
FROM -L- STA. 1149+50 TO STA. 1153+90 RT.

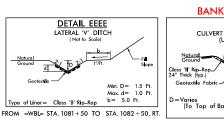


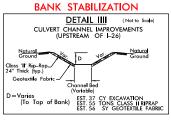


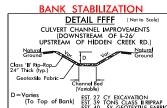


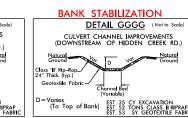






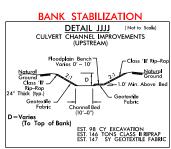


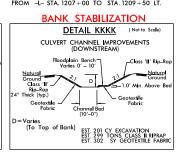


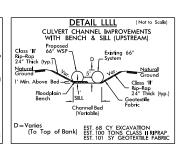


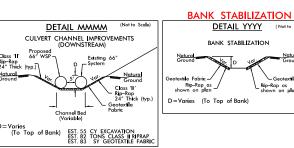


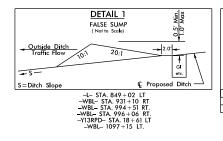
DETAIL AAAA TOE PROTECTION (Not to Scale)

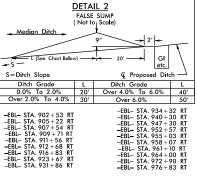


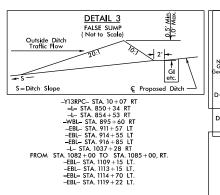


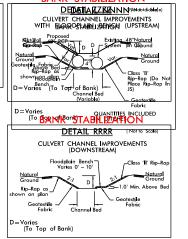


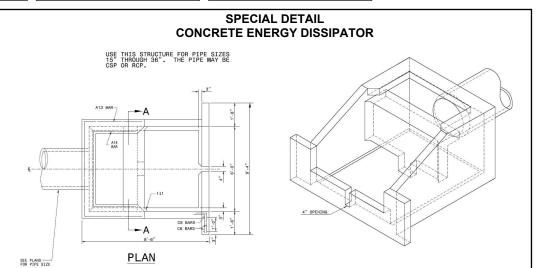


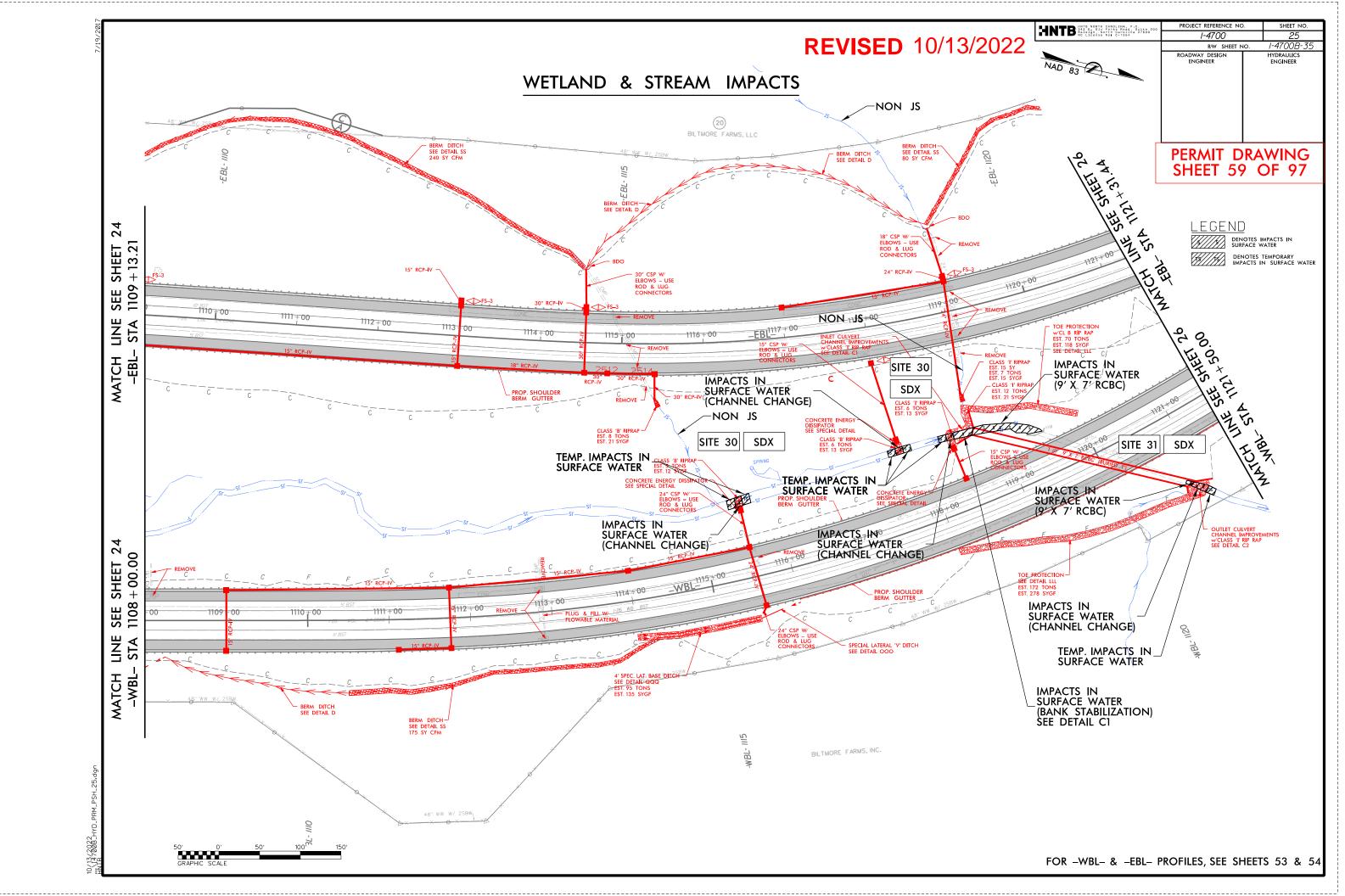


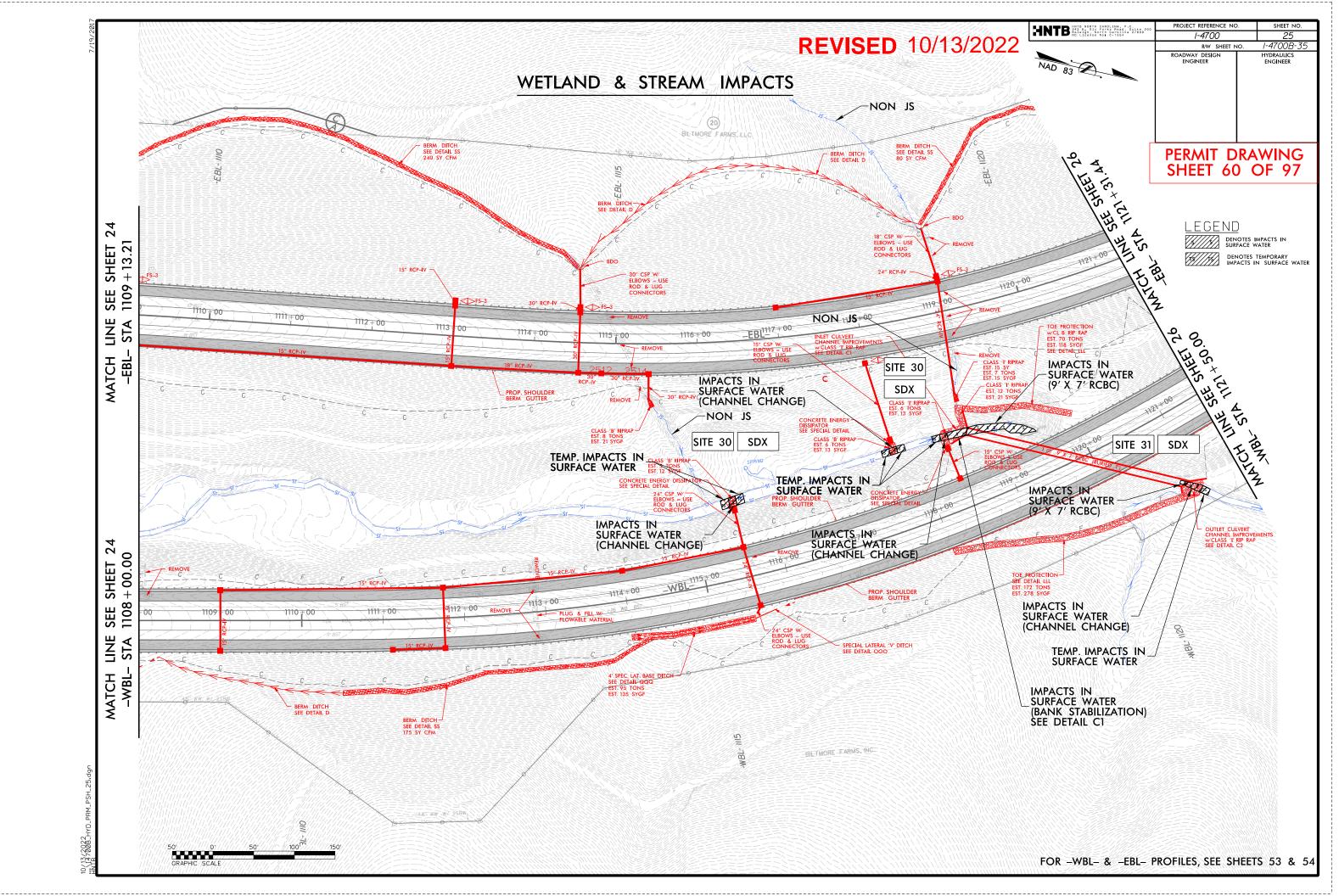


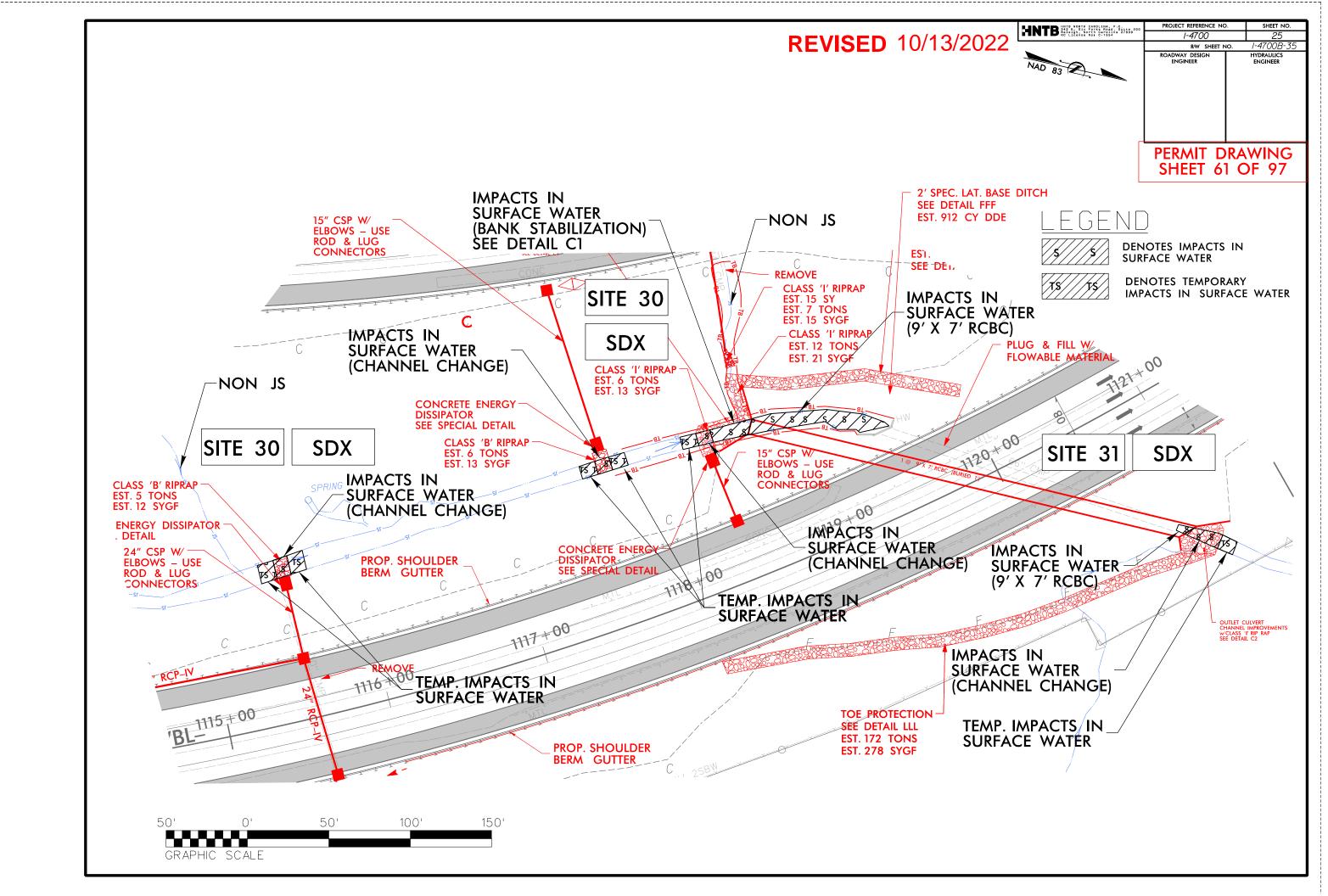


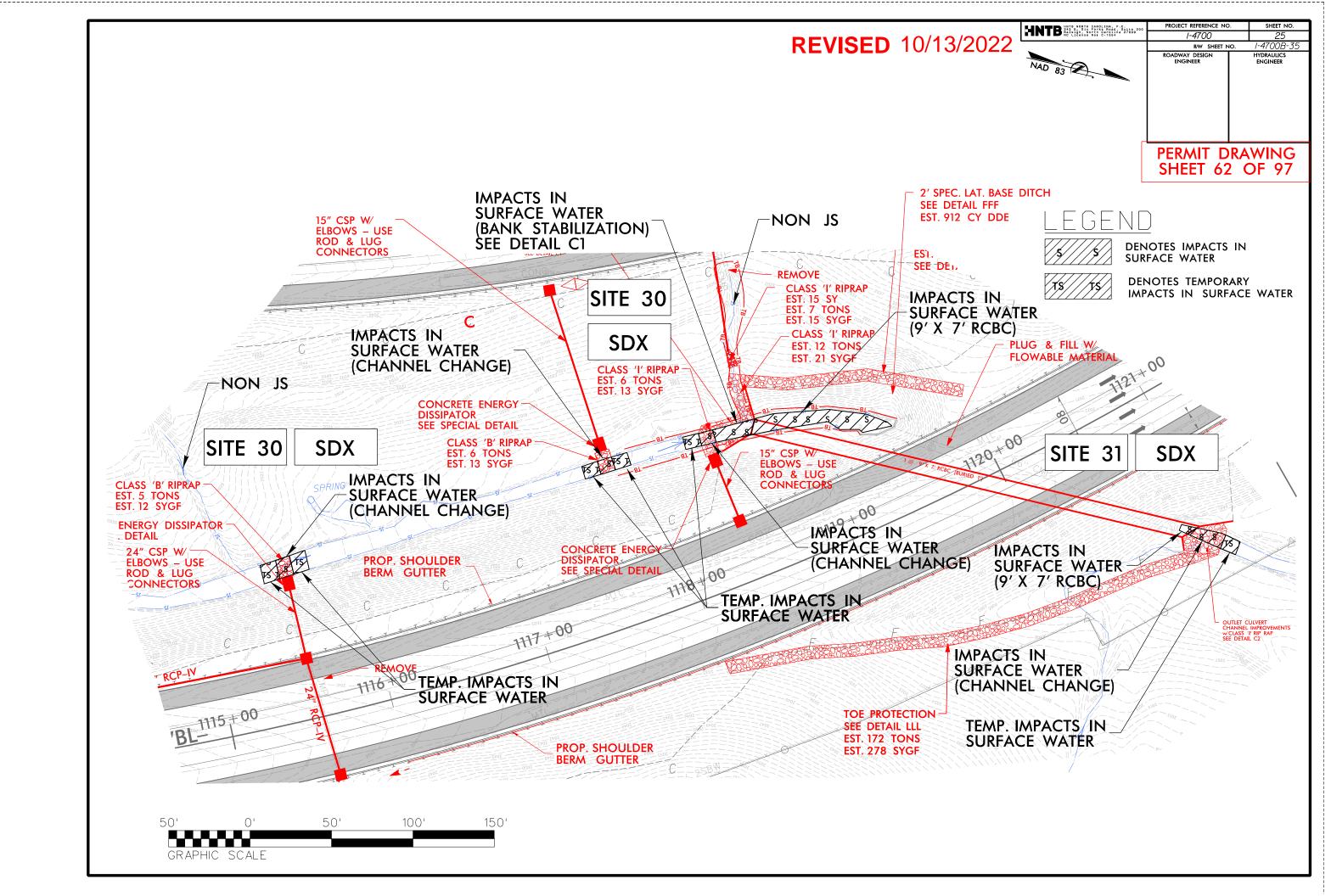


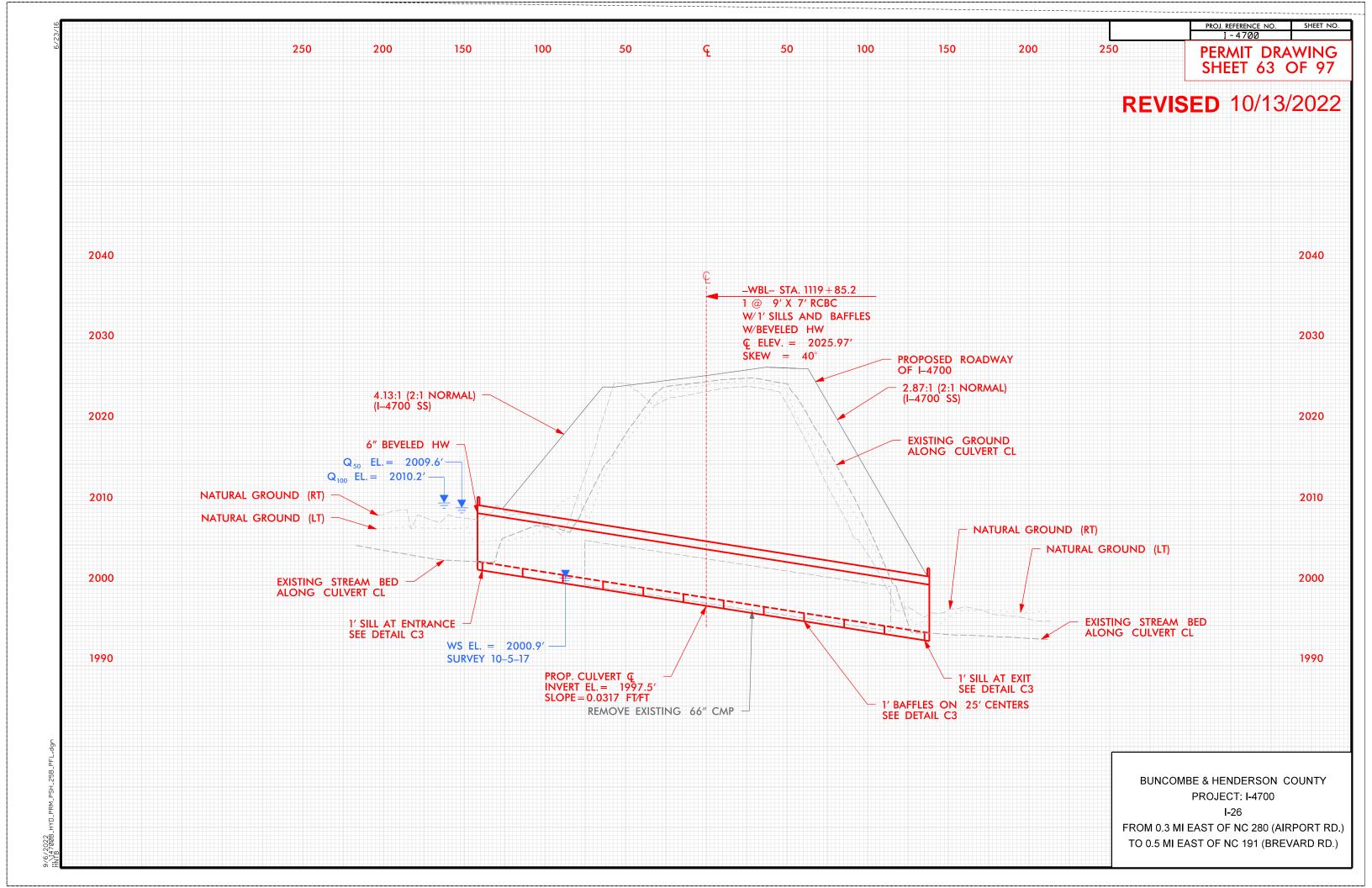












			WETLAND AND SURFACE WATER IMPACTS SUMI	MARY									
										SURFACE	ACE WATER IMPACTS		
								Hand			U	Existing	
	O. N			Permanent	Temp.		Mechanized	Clearing	Permanent	Temp.	_	Channel	
Site No.	Stream Name Stream ID	Station (Frame (Tax)	Structure	Fill In	Fill In	in Wetlands	Clearing	in Martinasia	SW	SW	Impacts		
NO.	Stream ID	(From/To)	Size / Type	Wetlands	Wetlands (ac)	(ac)	in Wetlands	Wetlands (ac)	impacts (ac)	impacts (ac)	Permanen (ft)	t Temp.	Design (ft)
1	UT to French Broad River / SDI	Y13RPB 11+26 to 15+64 LT	Stream relocated to Proposed Roadside ditch Due to Roadway Widening	(ac)	(ac)	(ac)	(ac)	(ac)	(ac)	(ac)	342	(11)	(11)
1A	UT to French Broad River / SDD	WBL 881+50 to 886+10 RT	Stream relocated to Toe Protection due to Roadway Widening								452	10	
2	UT to French Broad River / SDC	WBL 887+41 to 887+62 RT	6' x 6' RCBC Culvert Extension Due to Roadway Widening								25		
2	UT to French Broad River / SDC	WBL 887+20 to 887+45 RT	Bank Stabilization at inlet of 6' X 6' RCBC								22	10	+
3	UT to French Broad River / SDC	EBL 888+63 to 889+10 LT	Channel change*1 at upstream and downstream of Existing Culvert								45		
3	UT to French Broad River / SDC	EBL 889+04 to 889+30 LT	Bank Stabilization at outlet of Existing Culvert								44	3	
4	UT to French Broad River / SDE	WBL 914+14 to 914+38 RT	66" RCP between Existing 66" RCP and 66" CMP in the WBL								55		
4	UT to French Broad River / SDE	WBL 913+64 to 913+93 RT	Bank Stabilization at inlet of 66" RCP								34	10	
5	UT to French Broad River / SDE	EBL 914+15 to 914+22 Median	66" RCP between Existing 66" CMP and 66" CMP in the Median								28		
6	UT to French Broad River / SDE	EBL 914+20 to 914+30 LT	Channel Change*1 between outlet of Existing 66" CMP and proposed 66" WSP and Existing 48" CMP								29		
7	UT to French Broad River / SDF	WBL 932+16 to 932+22 RT	Temp. Impact for Constructing Tapered Inlet with Head Wall									5	
8	UT to French Broad River / SDF	EBL 931+83 to 931+95 Median	54" CSP between two Existing 54" RCP in the Median								38		
9	UT to French Broad River / SDF	EBL 932+08 to 932+17 LT	54" RCP Extension Due to Roadway Widening and Conc.								20		
9	UT to French Broad River / SDF	EBL 932+12 to 932+23 LT	Bank Stabilization at the outlet of Proposed 54" RCP Extension								22	11	
10	WBR	WBL 936+68 to 938+29 RT	Special Cut Ditches on both side of Inlet of Proposed 24" WSP and Existing 66" RCP	0.03		0.03	0.03						
11	WBV	EBL 938+81 to 952+45 LT	RipRap Outlet Protection of Proposed 24" CSP and Existing 66" RCP	0.15		< 0.01	0.37						
12	UT to French Broad River / SFX / WBU	WBL 942+31 to 943+22 RT	30" RCP Extension Due to Roadway Widening			0.01	0.02				20	10	
13	UT to French Broad River / SDK / WBW	WBL 952+88 to 954+00 RT	66" RCP Extension Due to Roadway Widening / Fill and Excavation in wetland Due to Roadway Widening	0.07		0.02	< 0.01				40	10	
14	UT to French Broad River / SDK	EBL 952+66 to 952+77 LT	66" CSP Extension Due to Roadway Widening								14		
14	UT to French Broad River / SDK	EBL 952+72 to 952+80 LT	Channel Change*1 at downstream of 66" CSP Extension								22	7	
15	Powell Creek / SDN	WBL 983+40 to 983+73 RT	Bank Stabilization at inlet of Proposed 2@ 10' X 10' RCBC								42	10	
15	Powell Creek / SDN	WBL 983+67 to 983+80 RT	Existing 10' X10' RCBC Extension Due to Roadway Widening								12		
16	Powell Creek / SDN	EBL 984+63 to 984+90 LT	Existing 10' X10' RCBC Extension Due to Roadway Widening								16		
16	Powell Creek / SDN	EBL 984+69 to 985+07 LT	Bank Stabilization at outlet of Proposed 2@ 10' X 10' RCBC								82	13	
17	UT to French Broad River / SDU	L 1027+43 to 1027+51 RT	Existing 48" RCP Extension Due to Roadway Widening								16		
17	UT to French Broad River / SDU	L 1027+47 to 1027+ 58 RT	Bank Stabilization at inlet of 2 @ 48" RCP								10	10	
18	UT to French Broad River / SDU	L 1026+47 to 1026+68 LT	Channel Change*1 at outlet of Existing and Proposed 48" CMP and WSP								22	10	
18 A	French Broad River	L 1019+98 to 1020+50 LT	Channel Change*1 at outlet of Existing 8' X 8' Conc. Box Culvert								10	10	
19	WCH	L 1031+14 to 1035+27 LT	Fill in Wetlands Due to Roadway Widening	< 0.01			0.06						
20	UT to French Broad River / SDV	L 1042+57 to 1042+72 RT	Bank Stabilization at outlet of proposed 42" RCP due to Existing 42" CMP Extension and Proposed 42" WSP								18	10	
20	UT to French Broad River / SDV	L 1042+69 to 1042+91 RT	Existing 42" CMP Extension Due to Roadway Widening and Proposed 42" WSP								33		
21	UT to French Broad River / SDW	L 1048+84 to 1049+00 RT	Existing 60" CMP Extension with a 60" RCP Due to Roadway Widening								27		
21	UT to French Broad River / SDW	L 1048+93 to 1049+20 RT	Channel Change*1 at inlet of Proposed 60" CMP Extension with a 60" RCP								24	12	
22	WCH	L 1047+74 to 1047+84	Excavation in Wetland Due to Roadway Widening			< 0.01	0.01						
TOTAL	S*:			0.26		0.07	0.50				1564	151	

*Rounded totals are sum of actual impacts

NOTES:

*1: Emedding Riprap

NC DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
10/13/2022
Buncombe & Henderson County
I-4700
SHEET 96 OF 97

evised 2018 Fe

			WETLAND AND SURFACE WATER IMPACTS S	DOWNWAICH	WE	TI AND IMP	ACTS		SURFA	CF WATER I	WATER IMPACTS						
					VV L	/ETLAND IMPACTS			JUNIF		Existing Existing						
				Permanent	Temp.	Excavation		ring Perm	nent Tem		Channe	' I					
Site	Stream Name	Station	Structure	Fill In	Fill In	in	Clearing	s SV	y sv	/ Impacts	Impacts	s Stream					
No.	Stream ID	(From/To)	Size / Type	Wetlands	Wetlands	Wetlands	in Wetlands We	ands impa	cts impa	cts Permaner	nt Temp.	Design					
				(ac)	(ac)	(ac)	(ac) (a	c) (a) (ad	, ,	(ft)	(ft)					
23	UT to French Broad River / SDX	WBL 1082+23 to 1085+46 RT	Stream relocated to Proposed Lateral 'V' ditch due to Roadway Widening							312	10						
23	UT to French Broad River / SDX	WBL 1090+35 to 1090+65 RT	Channel change*1 at the Outlet of Proposed 30" CSP and Conc. Energy Dissipator							9	20						
23	UT to French Broad River / SDX	WBL 1091+37 to 1092+04 RT	Proposed 42" CMP Extension with a 42" RCP due to Roadway Widening							59	10						
24	UT to French Broad River / SDX	WBL 1094+12 to 1094+46 median	Channel Change*1 at Outlet of Existing 42" CMP							27	10	_					
24A	UT to French Broad River / SDX	EBL 1097+18 to 1097+46 median	Channel Change*1 at Outlet of Proposed 30" WSP with 30" RCP Extension							7	20						
25	UT to French Broad River / SEU	EBL 1097+19 to 1097+34 LT	Proposed 30" WSP with 30" RCP Extension							15	4						
26	UT to French Broad River / SDX	EBL 1105+45 to 1105+52 RT	Channel Change*1 at Outlet of Existing 30" CMP							7	10	_					
27	UT to French Broad River / SDY / WCV	WBL 1104+37 to 1104+51 RT	Existing 30" CMP with 30" RCP Extension			< 0.01				19	13	_					
28	UT to French Broad River / SDY	WBL 1104+88 to 1105+14 LT	Channel Change*1 at Outlet of Proposed 24" CSP and Conc. Energy Dissipator							9	18	-					
29	UT to French Broad River / SDX	EBL 1106+74 to 1107+07 RT	Temp. Impact for Constructing Standard Base Ditch								30	-					
30	UT to French Broad River / SDX	WBL 1115+40 to 1115+70 LT	Channel Change*1 at Outlet of 24" CSP and Conc. Energy Dissipator							9	20						
30	UT to French Broad River / SDX	EBL 1118+02 to 1118+30 RT	Channel Change*1 at Outlet of Proposed 15" CSP and Conc. Energy Dissipator							9	20	_					
30	UT to French Broad River / SDX	WBL 1118+25 to 1118+45 LT	Channel Change*1 at Outlet of 15" CSP and Conc. Energy Dissipator							9	10	-					
30	UT to French Broad River / SDX	WBL 1118+45 to 1118+73 LT	Bank Stabilization at Inlet of Proposed 1@ 9' X 7' RCBC							25							
30	UT to French Broad River / SDX	WBL 1118+65 to 1119+51 LT	Proposed 1 @ 9' X 7' RCBC due to Roadway Widening							78	+	_					
31	UT to French Broad River / SDX	WBL 1120+78 to 1120+88 RT	Proposed 1 @ 9' X 7' RCBC due to Roadway Widening							8		-					
31	UT to French Broad River / SDX	WBL 1120+81 to 1121+06 RT	Channel Change*1 at Outlet of 1 @ 9' x 7' RCBC							20	10						
32	WCW	WBL 1123+76 to L 1137+72 RT	Fill in Wetland Due to Roadway Widening	0.37			0.30					-					
32	UT to French Broad River / SEQ	WBL 1131+60 to 1131+94 RT	Existing 54" CMP Extension with a 54" RCP Due to Roadway Widening							57	7	-					
33	UT to French Broad River / SEQ	EBL 1131+02 to 1131+11 LT	Stream relocated to Existing 54" CMP with a 54" RCP Extension							24	10	-					
33	UT to French Broad River / SEQ	EBL 1131+00 to 1131+12 LT	Existing 54" CMP Extension with a 54" RCP Due to Roadway Widening							30							
34	UT to French Broad River / SED	L 1138+18 to 1138+32 LT	Stream relocated to Standard Base Ditch at the Outlet of Proposed 36" RCP							30	12	-					
34	UT to French Broad River / SED	L 1138+29 to 1138+47 LT	Existing 36" CMP Extension with a 36" RCP Due to Roadway Widening							25		_					
35	WCZ	L 1138+55 to 1139+39 RT	Fill in Wetland Due to Roadway Widening	0.02								-					
36	UT to French Broad River / SEF	L 1147+02 to 1147+09 LT	Channel Change*1 at Outlet of Proposed 42" RCP							8	10						
36	UT to French Broad River / SEF	L 1146+98 to 1147+07 LT	Existing 42" CMP Extension with a 42" RCP Due to Roadway Widening							28							
37	UT to French Broad River / SEF	L 1148+35 to 1148+64 RT	Channel Change*1 at the Outlet of Proposed 15" CSP and Conc. Energy Dissipator							9	20	_					
37	UT to French Broad River / SEF	L 1149+17 to 1151+55 RT	Stream relocated to Proposed 4' Lateral Base Ditch due to Roadway Widening							356	10	-					
38	UT to French Broad River / SEE	L 1153+90 to 1154+10 RT	Stream relocated to Proposed 4' Lateral Base Ditch due to Roadway Widening							18	10	-					
38	UT to French Broad River / SEE	L 1155+35 to 1155+64 RT	Bank Stabilization at outlet of Proposed 15" CSP and Conc. Energy Dissipator							9	20						
38	UT to French Broad River / SEE	L 1156+95 to 1158+01 RT	Temp. Pipe for Access Road								106	_					
38	UT to French Broad River / SEE	L 1157+29 to 1157+38 RT	Channel Change*1 at Outlet of Proposed 30" CSP and Conc. Energy Dissipator	0.04		2.24				9	+	-					
39 39	WFG	L 1153+55 to 1153+89 LT	Fill in Wetland Due to Roadway Widening	< 0.01		< 0.01						_					
	UT to French Broad River / SEE	L 1153+56 to 1153+67 LT	Proposed 24" RCP Stream relocated to Retaining Wall Gutter							33		-					
39	UT to French Broad River / SEE	L 1153+63 to 1153+77 LT								22	10						
40	French Broad River	L 1161+33 to 1165+06	Bridge								245						
41	UT to French Broad River / SFG UT to French Broad River / SFG	L 1164+95 to 1171+67 RT L 1172+85 to 1173+15 RT	Temporary Pipe Due to Acess Road							0	662						
41			Channel Change*1 at Outlet of Proposed 15" CSP and Conc. Energy Dissipator							9	20 9						
	UT to French Broad River / SFO	L 1169+93 to 1170+02 LT	Temporary Pipe Due to Acess Road	0.00			0.00				- 9	_					
43	WDZ UT to French Broad River / SFG	L 1179+54 to 1180+29 RT	Fill in Wetland Due to Roadway Widening	0.02			0.02			45		+					
44		L 1196+58 to 1196+84 RT	Channel Change*1 at Outlet of Existing 48" CMP							15	20	+					
45 46	UT to French Broad River / SFR	L 1196+68 to 1196+73 LT	Temp. Impact for Constructing Tapered Inlet with Head Wall							29	5	+					
46	UT to French Broad River / SFQ	L 1214+30 to 1214+64 RT	Existing 42" CMP Extension with a 42" RCP Due to Roadway Widening							12	+	+					
47	UT to French Broad River / SFQ	L 1216+09 to 1216+19 LT	Existing 42" CMP Extension with a 42" RCP Due to Roadway Widening							9	+	+					
47	UT to French Broad River / SFQ	L 1216+15 to 1216+22 LT	Bank Stabilization at end of Toe Protection								13	+					
47 TOTAL	UT to French Broad River / SFQ	L 1216+18 to 1216+26 LT	Stream relocated to Proposed 4' Lateral Base Ditch due to Roadway Widening	0.41		< 0.01	0.32			1362	1394	+					
IOIAL	.o .			0.41		0.07	0.32			2926	1394						

*Rounded totals are sum of actual impacts

NOTES:

Site 40: Impacts of interior bents are 400 SF

*1: Emedding Riprap

NC DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
10/13/2022
Buncombe & Henderson County
I-4700

SHEET 97 OF 97