Z-1

C203160 (C-4901A) Davidson County

PROJECT SPECIAL PROVISION

(10-18-95)

PERMITS

The Contractor's attention is directed to the following permits, which have been issued to the Department of Transportation by the authority granting the permit.

<u>PERMIT</u>	AUTHORITY GRANTING THE PERMIT	
Dredge and Fill and/or Work in Navigable Waters (404)	U. S. Army Corps of Engineers	:
Woton Ovelity (401)	Division of Environmental Management, DENR	
Water Quality (401)	State of North Carolina	:

The Contractor shall comply with all applicable permit conditions during construction of this project. Those conditions marked by * are the responsibility of the department and the Contractor has no responsibility in accomplishing those conditions.

Agents of the permitting authority will periodically inspect the project for adherence to the permits.

The Contractor's attention is also directed to Articles 107-10 and 107-13 of the 2012 Standard Specifications and the following:

Should the Contractor propose to utilize construction methods (such as temporary structures or fill in waters and/or wetlands for haul roads, work platforms, cofferdams, etc.) not specifically identified in the permit (individual, general, or nationwide) authorizing the project it shall be the Contractor's responsibility to coordinate with the Engineer to determine what, if any, additional permit action is required. The Contractor shall also be responsible for initiating the request for the authorization of such construction method by the permitting agency. The request shall be submitted through the Engineer. The Contractor shall not utilize the construction method until it is approved by the permitting agency. The request normally takes approximately 60 days to process; however, no extensions of time or additional compensation will be granted for delays resulting from the Contractor's request for approval of construction methods not specifically identified in the permit.

Where construction moratoriums are contained in a permit condition which restricts the Contractor's activities to certain times of the year, those moratoriums will apply only to the portions of the work taking place in the waters or wetlands provided that activities outside those areas is done in such a manner as to not affect the waters or wetlands.

DEPARTMENT OF THE ARMY PERMIT

Permittee: NORTH CAROLINA DEPARTMENT OF TRANSPORTATION, RAIL DIVISION ATTN: MARC HAMEL

Permit No.: 2009-01730

Issuing Office: CESAW-RG-R

NOTE: The term "you" and its derivatives, as used in this permit, means the permittee or any future transferee. The term "this office" refers to the appropriate district or division office of the Corps of Engineers having jurisdiction over the permitted activity or the appropriate official of that office acting under the authority of the commanding officer.

You are authorized to perform work in accordance with the terms and conditions specified below.

Project Description: The North Carolina Department of Transportation, Rail Division (NCDOT Rails) proposes improvements to approximately 4.2 miles of existing rail corridor located south of Bower Station to Lake Station, south of Thomasville, in Davidson County, North Carolina. The rail within the project corridor currently consists of a single track, allowing one train access to this portion of the rail at any given time. The Rail Division proposes to construct a second track adjacent to the existing track. The rail corridor north of Bowers and south of Lake currently has double tracks and this project will eliminate traffic bottlenecks. This section of rail previously contained two tracks; however, portions of the double track were removed as redundant in the 1960's as part of a signal system improvement project. Since that time, rail traffic has greatly increased and additional capacity and service reliability are needed. This project is divided into two sections:

\Box	Rail grading	(C-4901A	A), which v	vill include	preparation for	r the se	econd track	k, repl	acement of	of the rail	bridge	
supers	tructure over	Abbott's	Creek, repl	lacement of	f the rail bridge	over J	fimmy's C	reek, a	and rehabi	litation o	f the rail	bridge over
Rich F	ork Creek;											

Track work (C-4901D), which includes the installation of 4.1 miles of the second track.

In addition, the alignments of specific curves in this project rail corridor inhibit the ability to achieve high speed passenger train service. The proposed project will realign the three curves within the project rail corridor that are currently greater than 1° 30' to improve them to the 90 miles per hour design speed for higher speed passenger service. This will include the 1° 54' curve beginning just south of Jimmys Creek (depicted on the attached Design Plans as "Hamby Creek Trib") and the 2° curve that it transitions into (depicted on the attached Design Plans, Sheets 10-12). This compound curve ends just north of Lower Lake Road. The proposed project will also improve the 2° curve beginning south of Abbotts Creek (Design Plans, Sheet 18). The curve realignments will also benefit freights by reducing drag and hence reducing fuel consumption, emissions, and wheel noise. Therefore, NCDOT's track improvements within the corridor focus on increasing safety, track capacity, reliability, and train speed.

The project would permanently impact 1224 linear feet of the jurisdictional stream channels of Jimmy's Creek, a tributary of the Yakin River. In addition, impacts are proposed to 3.48 acres of jurisdictional wetlands adjacent to Jimmy's Creek. There would also be 217 linear feet of temporary jurisdictional stream channel impacts associated with construction dewatering activities.

Project Location: The project area associated with the C-4901 A, D project encompasses approximately 183.3 acres and generally consists of the area within 100 feet of the center of the existing railway and outward along Upper Lake Road (State Route [SR] 2024) and Turner Road (SR 2005). Along these roadways, the project area extends up to 1475 feet from the existing rail line with widths that range from 75 to 350 feet from the roadway center. This existing rail corridor is located south of Thomasville, in Davidson County, North Carolina. Water resources within the project area include Jimmy's Creek which is part of the Yadkin River Basin (U.S. Geological Survey [USGS] Hydrologic Unit [HUC] 03040103). The approximate midpoint of the project is:

LATITUDE & LONGITUDE: Latitude North: 35.8453° N

Longitude West: -80.1806° W

Permit Conditions:

General Conditions:

- 1. The time limit for completing the work authorized ends on <u>December 31, 2018</u>. If you find that you need more time to complete the authorized activity, submit your request for a time extension to this office for consideration at least one month before the above date is reached.
- 2. You must maintain the activity authorized by this permit in good condition and in conformance with the terms and conditions of this permit. You are not relieved of this requirement if you abandon the permitted activity, although you may make a good faith transfer to a third party in compliance with General Condition 4 below. Should you wish to cease to maintain the authorized activity or should you desire to abandon it without a good faith transfer, you must obtain a modification of this permit from this office, which may require restoration of the area.
- 3. If you discover any previously unknown historic or archeological remains while accomplishing the activity authorized by this permit, you must immediately notify this office of what you have found. We will initiate the Federal and state coordination required to determine if the remains warrant a recovery effort or if the site is eligible for listing in the National Register of Historic Places.
- 4. If you sell the property associated with this permit, you must obtain the signature of the new owner in the space provided and forward a copy of the permit to this office to validate the transfer of this authorization.
- 5. If a conditioned water quality certification has been issued for your project, you must comply with the conditions specified in the certification as special conditions to this permit. For your convenience, a copy of the certification is attached if it contains such conditions.
- 6. You must allow representatives from this office to inspect the authorized activity at any time deemed necessary to ensure that it is being or has been accomplished in accordance with the terms and conditions of your permit,

Special Conditions:

SEE ATTACHED SPECIAL CONDITIONS

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0001ADD_P10C1

Further Information:

- 1. Congressional Authorities: You have been authorized to undertake the activity described above pursuant to:
 - () Section 10 of the Rivers and Harbors Act of 1899 (33 U.S.C. 403).
 - (X) Section 404 of the Clean Water Act (33 U.S.C. 1344).
 - () Section 103 of the Marine Protection, Research and Sanctuaries Act of 1972 (33 U.S.C. 1413).
- 2. Limits of this authorization.
 - a. This permit does not obviate the need to obtain other Federal, state, or local authorizations required by law.
 - b. This permit does not grant any property rights or exclusive privileges.
 - c. This permit does not authorize any injury to the property or rights of others.
 - d. This permit does not authorize interference with any existing or proposed Federal project.
- 3. Limits of Federal Liability. In issuing this permit, the Federal Government does not assume any liability for the following:
- a. Damages to the permitted project or uses thereof as a result of other permitted or unpermitted activities or from natural causes.
- b. Damages to the permitted project or uses thereof as a result of current or future activities undertaken by or on behalf of the United States in the public interest.
- c. Damages to persons, property, or to other permitted or unpermitted activities or structures caused by the activity authorized by this permit.
 - d. Design or construction deficiencies associated with the permitted work.
 - e. Damage claims associated with any future modification, suspension, or revocation of this permit.
- 4. Reliance on Applicant's Data: The determination of this office that issuance of this permit is not contrary to the public interest was made in reliance on the information you provided.
- 5. Reevaluation of Permit Decision. This office may reevaluate its decision on this permit at any time the circumstances warrant. Circumstances that could require a reevaluation include, but are not limited to, the following:
 - a. You fail to comply with the terms and conditions of this permit.
- b. The information provided by you in support of your permit application proves to have been false, incomplete, or inaccurate (See 4 above).
 - c. Significant new information surfaces which this office did not consider in reaching the original public interest decision.

(TRANSFEREE)

Such a reevaluation may result in a determination that it is appropriate to use the suspension, modification, and revocation procedures contained in 33 CFR 325.7 or enforcement procedures such as those contained in 33 CFR 326.4 and 326.5. The referenced enforcement procedures provide for the issuance of an administrative order requiring you to comply with the terms and conditions of your permit and for the initiation of legal action where appropriate. You will be required to pay for any corrective measures ordered by this office, and if you fail to comply with such directive, this office may in certain situations (such as those specified in 33 CFR 209.170) accomplish the corrective measures by contract or otherwise and bill you for the cost.

6. Extensions. General condition 1 establishes a time limit for the completion of the activity authorized by this permit, unless there are circumstances requiring either a prompt completion of the authorized activity or a reevaluation of the public interest decision, the Corps will normally give favorable consideration to a request for an extension of this time limit.

Your signature below, as permittee, indicates that you accept and agree to comply with the terms and conditions of this permit.

DATE DATEOLOGY	/ /(DATE)
RAIL DIVISION	
ATTN: MARC HAMEL	

(DISTRICT ENGINEER) STEVEN A. BAKER, COLONEL

When the structures or work authorized by this permit are still in existence at the time the property is transferred, the terms and conditions of this permit will continue to be binding on the new owner(s) of the property. To validate the transfer of this permit and the associated liabilities associated with compliance with its terms and conditions, have the transferee sign and date below.

(DATE)

0001ADD P10C1

SPECIAL CONDITIONS ACTION ID SAW-200901730 (TIP C-4901 A, D) NORTH CAROLINA DEPARTMENT OF TRANSPORTATION, RAIL DIVISION BOWERS STATION TO LAKE STATION DOUBLE TRACK PROJECT

Failure to institute and carry out the details of the following special conditions below (listed as a-w) will result in a directive to cease all ongoing and permitted work within waters of the United States, including wetlands, associated with the permitted project, or such other remedies and/or fines as the U.S. Army Corps of Engineers District Commander or his authorized representatives may seek.

- a) The North Carolina Division of Water Quality (DWQ) permit/certification number WQC003957 was issued for this project on May 22, 2013. Special conditions were issued associated with this water quality permit/certification and a copy of these conditions is attached as Exhibit A. These referenced conditions are hereby incorporated as special conditions of this permit.
- b) All work authorized by this permit must be performed in strict compliance with the attached plans which were received on May 7, 2013. These plans are a part of this permit and identified as Exhibit B. Any modification to these plans must be approved by the US Army Corps of Engineers (USACE) prior to implementation.
- c) The permittee shall schedule a preconstruction meeting between its representatives, the contractor's representatives, and the Corps of Engineers, Raleigh 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 of the terms and conditions contained within this Department of the Army Permit. The permittee shall provide the USACE, Raleigh Regulatory Field Office, NCDOT Regulatory Project Manager, with a copy of the final 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 when the USACE and North Carolina Division of Water Quality (NCDWQ) Project Managers can attend. The permittee shall invite the Corps and NCDWQ 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.
- d) Except as authorized by this permit or any USACE 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. This permit does not authorize temporary placement or double handling of excavated or fill material within waters or wetlands outside the permitted area. This prohibition applies to all borrow and fill activities connected with this project.
- e) 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 or wetlands.

SPECIAL CONDITIONS ACTION ID SAW-200901730 (TIP C-4901 A, D) NORTH CAROLINA DEPARTMENT OF TRANSPORTATION, RAIL DIVISION BOWERS STATION TO LAKE STATION DOUBLE TRACK PROJECT

- * f) Compensatory mitigation of 1224 warm-water stream mitigation credits and 3.48 acre of permanent Riparian-Nonriverine wetland credits associated with the project will be provided by North Carolina Ecosystem Enhancement Program (NCEEP), as outlined in the letter dated March 26, 2013, from James B. Stanfill, EEP Asset Management Supervisor. In order to compensate for this wetland impact 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 herby incorporated as special conditions of this permit authorization.
 - g) All mechanized equipment will 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 Quality at 1 (800) 858-0368 and provisions of the North Carolina Oil Pollution and Hazardous Substances Control Act will be followed.
- * h) The permittee shall advise the Corps in writing prior to beginning the work authorized by this permit and again upon completion of the work authorized by this permit.
 - i) Unless otherwise authorized by this permit, all fill material placed in waters or wetlands shall be generated from an upland source and will be clean and free of any pollutants except in trace quantities. Metal products, organic materials (including debris from land clearing activities), or unsightly debris will not be used.
 - j) 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, shall be available at the project site during construction and maintenance of this project
 - k) The permittee shall employ all sedimentation and erosion control measures necessary to prevent an increase in sedimentation or turbidity within waters and wetlands outside the permit area. This shall include, but is not limited to, the immediate installation of silt fencing or similar appropriate devices around all areas subject to soil disturbance or the movement of earthen fill, and the immediate stabilization of all disturbed areas. Additionally, the project must remain in full compliance with all aspects of the Sedimentation Pollution Control Act of 1973 (North Carolina General Statutes Chapter 113A Article 4).
 - 1) The permittee shall remove all sediment and erosion control measures placed in wetlands or waters, and shall restore natural grades in those areas, prior to project completion.

SPECIAL CONDITIONS ACTION ID SAW-200901730 (TIP C-4901 A, D) NORTH CAROLINA DEPARTMENT OF TRANSPORTATION, RAIL DIVISION BOWERS STATION TO LAKE STATION DOUBLE TRACK PROJECT

- m) During the clearing phase of the project, heavy equipment must 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-erodable materials. Grubbing of riparian vegetation will not occur until immediately before construction begins on a given segment of stream channel.
- n) No fill or excavation for the purposes of sedimentation and erosion control shall occur within jurisdictional waters, including wetlands, unless it is included on the plan drawings and specifically authorized by this permit.
- o) 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 preproject condition.
- p) Violations of these conditions or violations of Section 404 of the Clean Water Act or Section 10 of the Rivers and Harbors Act must be reported in writing to the Wilmington District U.S. Army Corps of Engineers within 24 hours of the permittee's discovery of the violation.
- * q) The permittee will ensure that the construction design plans for this project do not deviate from the permit plans attached to this authorization. Written verification shall be provided that the final construction drawings comply with the attached permit drawings prior to any active construction in waters of the United States, including wetlands. Any deviation in the construction design plans will be brought to the attention of the Corps of Engineers, Raleigh Regulatory Field Office prior to any active construction in waters or wetlands.
- * r) Prior to commencing construction within jurisdictional waters of the United States for any portion of the proposed project, the permittee shall forward the latest version of project construction drawings to the Corps of Engineers, Raleigh Regulatory Field Office NCDOT Regulatory Project Manager. Half-size drawings will be acceptable.
 - s) The permittee shall take measures to prevent live or fresh concrete from coming into contact with any surface waters until the concrete has hardened.
 - t) Measures will be included in the construction/installation 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 should 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 should 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.

SPECIAL CONDITIONS ACTION ID SAW-200901730 (TIP C-4901 A, D) NORTH CAROLINA DEPARTMENT OF TRANSPORTATION, RAIL DIVISION BOWERS STATION TO LAKE STATION DOUBLE TRACK PROJECT

- u) Culverts greater than 48 inches in diameter will be buried at least one foot below the bed of the stream. Culverts 48 inches in diameter or 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 the existing channel slope. The bottom of the culvert must be placed at a depth below the natural stream bottom to provide for passage during drought or low flow conditions. Destabilizing the channel and head cutting upstream should be considered in the placement of the culvert. A waiver from the depth specifications in this condition may be requested in writing. The waiver will be issued if it can be demonstrated that the proposal would result in the least impacts to the aquatic environment.
- v) To ensure that all borrow and waste activities occur on high ground and do not result in the degradation of adjacent wetlands and streams, except as authorized by this permit, the permittee shall require its contractors and/or agents to identify all areas to be used to borrow material, or to dispose of dredged, fill, or waste material. The permittee shall provide the USACE with appropriate maps indicating the locations of proposed borrow or waste sites as soon as the permittee has that information. The permittee will coordinate with the USACE before approving any borrow or waste sites that are within 400 feet of any streams or wetlands.
- w) If the permittee discovers any previously unknown historic or archaeological sites while accomplishing the authorized work, he shall immediately stop work and notify the Corps of Engineers, Raleigh Regulatory Field Office NCDOT Regulatory Project Manager who will initiate the required State/Federal coordination.

U.S. ARMY CORPS OF ENGINEERS

Wilmington District

* Compensatory Mitigation Responsibility Transfer Form

Permittee: North Carolina Department of Transportation, Rail Division Action ID: SAW- 200901730

Project Name: Bowers Station to Lake Station safety upgrades TIP C-4901 A, D County: Davidson

Instructions to Permittee: The Permittee must provide a copy of this form to the Mitigation Sponsor, either an approved Mitigation Bank or the North Carolina Ecosystem Enhancement Program (NCEEP), who will then sign the form to verify the transfer of the mitigation responsibility. Once the Sponsor has signed this form, it is the Permittee's responsibility to ensure that to the U.S. Army Corps of Engineers (USACE) Project Manager identified on page two is in receipt of a signed copy of this form before conducting authorized impacts, unless otherwise specified below. If more than one mitigation Sponsor will be used to provide the mitigation associated with the permit, or if the impacts and/or the mitigation will occur in more than one 8-digit Hydrologic Unit Code (HUC), multiple forms will be attached to the permit, and the separate forms for each Sponsor and/or HUC must be provided to the appropriate mitigation Sponsors.

Instructions to Sponsor: The Sponsor must verify that the mitigation requirements shown below are available at the identified site. By signing below, the Sponsor is accepting full responsibility for the identified mitigation, regardless of whether or not they have received payment from the Permittee. Once the form is signed, the Sponsor must update the appropriate ledger and provide a copy of the signed form to the Permittee and to the USACE Bank/In-Lieu Fee Program Manager. The Sponsor must also comply with all reporting requirements established in their authorizing instrument.

Permitted Impacts and Compensatory Mitigation Requirements:

Permitted Impa	icts Requiring Mit	igation*	8-digit HUC and	Basin: 03040103,	Lower Yadkin Rive	er Basin
Stream	am Impacts (linear	feet)		Wetland Im	pacts (acres)	
Warm	Cool	Cold	Riparian Riverine	Riparian Non-riverine	Non-Riparian	Coastal
. 1224				3.48		

^{*}If more than one mitigation sponsor will be used for the permit, only include Impacts to be mitigated by this sponsor.

Compensatory Mitigation Requirements: 8-digit HUC and Basin: 03040103 Lower Yadkin River Basin

Strea	m Mitigation (cr	edits)		Wetland Mitig	gation (credits)	
Warm	Cool	Cold	Riparian Riverine	Riparian Non-riverine	Non-Riparian	Coastal
1224				3.48		

Mitigation Site Debited: NCEEP

Signature of Sponsor's Authorized Representative

(List the name of the bank to be debited. For umbrella banks, also list the specific site. For NCEEP, list NCEEP. If the NCEEP acceptance letter identifies a specific site, also list the specific site to be debited).

Statement of Mitigation Liability Acceptance: I, the undersigned, verify that I am authorized to approve mitigation transactions for the Mitigation Sponsor shown below, and I certify that the Sponsor agrees to accept full responsibility for providing the mitigation identified in this document (see the table above), associated with the USACE Permittee and Action ID number shown. I also verify that released credits (and/or advance credits for NCEEP), as approved by the USACE, are currently available at the mitigation site identified above. Further, I understand that if the Sponsor fails to provide the required compensatory mitigation, the USACE Wilmington District Engineer may pursue measures against the Sponsor to ensure compliance associated with the mitigation requirements. Mitigation Sponsor Name: Name of Sponsor's Authorized Representative:

Date of Signature

USACE Wilmington District Compensatory Mitigation Responsibility Transfer Form, Page 2

Conditions for Transfer of Compensatory Mitigation Credit:

- Once this document has been signed by the Mitigation Sponsor and the USACE is in receipt of the signed form, the
 Permittee is no longer responsible for providing the mitigation identified in this form, though the Permittee remains
 responsible for any other mitigation requirements stated in the permit conditions.
- Construction within jurisdictional areas authorized by the permit identified on page one of this form can begin only after the USACE is in receipt of a copy of this document signed by the Sponsor, confirming that the Sponsor has accepted responsibility for providing the mitigation requirements listed herein. For authorized impacts conducted by the North Carolina Department of Transportation (NCDOT), construction within jurisdictional areas may proceed upon permit issuance; however, a copy of this form signed by the Sponsor must be provided to the USACE within 30 days of permit Issuance. NCDOT remains fully responsible for the mitigation until the USACE has received this form, confirming that the Sponsor has accepted responsibility for providing the mitigation requirements listed herein.
- Signed copies of this document must be retained by the Permittee, Mitigation Sponsor, and in the USACE administrative records for both the permit and the Bank/ILF Instrument. It is the Permittee's responsibility to ensure that the USACE Project Manager (address below) is provided with a signed copy of this form.
- If changes are proposed to the type, amount, or location of mitigation after this form has been signed and returned to the USACE, the Sponsor must obtain case-by-case approval from the USACE Project Manager and/or North Carolina Interagency Review Team (NCIRT). If approved, higher mitigation ratios may be applied, as per current District guidance and a new version of this form must be completed and included in the USACE administrative records for both the permit and the Bank/ILF Instrument.

Comments/Additional Conditions:

This form is not valid unless signed by the mitigation Sponsor and USACE Project Manager. For questions regarding this form or any of the conditions of the permit authorization, contact the Project Manager at the address below.

USACE Project Manager: John Thomas

USACE Field Office: Raleigh Regulatory Field Office

US Army Corps of Engineers

3331 Heritage Trade Drive, Suite 105 Wake Forest, North Carolina 27587

john.t.thomas.jr@saw02.usace.army.mil

Ich I de la

USACE Project Manager Signature

May 30, 2013

Date of Signature

Current Wilmington District mitigation guidance, including information on mitigation ratios, functional assessments, and mitigation bank location and availability, and credit classifications (including stream temperature and wetland groupings) is available at http://ribits.usace.army.mil.

Email:

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Applicant: Mr. Marc Hamel, North Carolina Department of Transportation, Rail Division, Bowers Station to Lake Station Double Track Project TIP C-4901 A, D	File Number: <u>SAW- 2009-0173</u>	30	Date: <u>May 30, 2013</u>
Attached is:		See Sect	tion below
	Letter of permission)		A
PROFFERED PERMIT (Standard Permit or Letter of	permission)		В
PERMIT DENIAL			С
APPROVED JURISDICTIONAL DETERMINATION	V		D
PRELIMINARY JURISDICTIONAL DETERMINAT	ION		Е

ECTION 1. The following identifies your rights and options regarding an administrative appeal of the above decision. Additional information may be found at http://www.usace.army.mil/inet/functions/cw/cecwo/reg or Corps regulations at 33 CFR Part 331.

A: INITIAL PROFFERED PERMIT: You may accept or object to the permit.

- ACCEPT: If you received a Standard Permit, you may sign the permit document and return it to the district engineer for final authorization. If you received a Letter of Permission (LOP), you may accept the LOP and your work is authorized. Your signature on the Standard Permit or acceptance of the LOP means that you accept the permit in its entirety, and waive all rights to appeal the permit, including its terms and conditions, and approved jurisdictional determinations associated with the
- OBJECT: If you object to the permit (Standard or LOP) because of certain terms and conditions therein, you may request that the permit be modified accordingly. You must complete Section II of this form and return the form to the district engineer. Your objections must be received by the district engineer within 60 days of the date of this notice, or you will forfeit your right to appeal the permit in the future. Upon receipt of your letter, the district engineer will evaluate your objections and may: (a) modify the permit to address all of your concerns, (b) modify the permit to address some of your objections, or (c) not modify the permit having determined that the permit should be issued as previously written. After evaluating your objections, the district engineer will send you a proffered permit for your reconsideration, as indicated in Section B below.

B: PROFFERED PERMIT: You may accept or appeal the permit

- ACCEPT: If you received a Standard Permit, you may sign the permit document and return it to the district engineer for final authorization. If you received a Letter of Permission (LOP), you may accept the LOP and your work is authorized. Your signature on the Standard Permit or acceptance of the LOP means that you accept the permit in its entirety, and waive all rights to appeal the permit, including its terms and conditions, and approved jurisdictional determinations associated with the permit.
- APPEAL: If you choose to decline the proffered permit (Standard or LOP) because of certain terms and conditions therein, you may appeal the declined permit under the Corps of Engineers Administrative Appeal Process by completing Section II of this form and sending the form to the division engineer. This form must be received by the division engineer within 60 days of the date of this notice.

C: PERMIT DENIAL: You may appeal the denial of a permit under the Corps of Engineers Administrative Appeal Process by completing Section II of this form and sending the form to the division engineer. This form must be received by the division engineer within 60 days of the date of this notice.

R-13 0248DEL_P10C1 0001ADD_P10C1

Addendum No.1

D: APPROVED JURISDICTIONAL DETERMINATION:	You may accept or appeal the approved JD or provide new
information	

- ACCEPT: You do not need to notify the Corps to accept an approved JD. Failure to notify the Corps within 60 days of the date of this notice means that you accept the approved JD in its entirety, and waive all rights to appeal the approved JD.
- APPEAL: If you disagree with the approved JD, you may appeal the approved JD under the Corps of Engineers
 Administrative Appeal Process by completing Section II of this form and sending the form to the district engineer. This form
 must be received by the division engineer within 60 days of the date of this notice.

E: PRELIMINARY JURISDICTIONAL DETERMINATION: You do not need to respond to the Corps regarding the preliminary JD. The Preliminary JD is not appealable. If you wish, you may request an approved JD (which may be appealed), by contacting the Corps district for further instruction. Also you may provide new information for further consideration by the Corps to reevaluate the JD.

SECTION II - REQUEST POR APPEAL OF OBJECTIONS TO AN INITIAL PROFFERED PERMIT

REASONS FOR APPEAL OR OBJECTIONS: (Describe your reasons for appealing the decision or your objections to an initial proffered permit in clear concise statements. You may attach additional information to this form to clarify where your reasons or objections are addressed in the administrative record.)

ADDITIONAL INFORMATION: The appeal is limited to a review of the administrative record, the Corps memorandum for the record of the appeal conference or meeting, and any supplemental information that the review officer has determined is needed to clarify the administrative record. Neither the appellant nor the Corps may add new information or analyses to the record. However, you may provide additional information to clarify the location of information that is already in the administrative record.

RIGHT OF ENTRY: Your signature below grants the right of entry to Corps of Engineers personnel, and any government consultants, to conduct investigations of the project site during the course of the appeal process. You will be provided a 15 day notice of any site investigation, and will have the opportunity to participate in all site investigations.

Date:

Telephone number:

Signature of appellant or agent.

For appeals on Initial Proffered Permits send this form to:

District Engineer, Wilmington Regulatory Division, Attn: <u>John Thomas</u>, 69 Darlington Avenue, Wilmington, North Carolina 28403

For Permit denials, Proffered Permits and approved Jurisdictional Determinations send this form to:

Division Engineer, Commander, U.S. Army Engineer Division, South Atlantic, Attn: Mr. Jason Steele, Administrative Appeal Officer, CESAD-PDO, 60 Forsyth Street, Room 10M15, Atlanta, Georgia 30303-8801 Phone: (404) 562-5137



North Carolina Department of Environment and Natural Resources

Pat McCrory Governor Division of Water Quality Charles Wakild, P. E. Director

John Skvarla, III Secretary

May 22, 2013

Marc Hamel, P.E.
Rail Division Engineer
North Carolina Department of Transportation-Rail Division
1553 Mail Service Center
Raleigh, North Carolina, 27699-1553

Subject: 401 Water Quality Certification Pursuant to Section 401 of the Federal Clean Water Act and ISOLATED

WETLANDS PERMIT Pursuant to IWGP100000 with ADDITIONAL CONDITIONS for Proposed improvements to Bowers to Lake Rail in Davidson County, Federal Aid Project No. FR-HSR-00S(681),

State Project No. WBS No. 490101.1.STR04, TIP C-4901AD

NCDWQ Project No. 20130037

Dear Dr. Thorpe:

Attached hereto is a copy of Certification No. 3957 issued to The North Carolina Department of Transportation (NCDOT) dated May 22, 2013.

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

Sincerely.

het Rohans

Charles Wakild Director

Attachments

Scott Davis, Axiom Environmental, inc. (electronic copy only)
John Thomas, US Army Corps of Engineers, Raleigh Field Office (electronic copy only)
Kent Boyer, Division 9 Environmental Officer (electronic copy only)
Chris Militscher, Environmental Protection Agency (electronic copy only)
Marla Chambers, NC Wildlife Resources Commission (electronic copy only)
Beth Harmon, Ecosystem Enhancement Program (electronic copy only)
NCDWQ Transportation Permitting Unit (electronic copy only)
File Copy

Transportation and Permitting Unit 1650 Mail Service Center, Raleigh, North Carolina 27699-1617 Location: 512 N. Salisbury St. Raleigh, North Carolina 27604 Phone: 919-807-6300 \ FAX: 919-807-6488 Internet: www.ncwaterquality.org



401 Water Quality Certification Pursuant to Section 401 of the Federal Clean Water Act and ISOLATED WETLANDS PERMIT Pursuant to IWGP100000 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 Quality (NCDWQ) Regulations in 15 NCAC 2H .0500 and ISOLATED WETLANDS PERMIT. This certification authorizes the NCDOT to impact 3.48 acres of jurisdictional wetlands, 0.53 acres of isolated wetlands, and 1467 linear feet of jurisdictional streams in Davidson County. The project shall be constructed pursuant to the application dated received January 9, 2013 with additional information dated received March 18, 2013, March 28, 2013, and May 7, 2013. The authorized impacts are as described below:

Stream Impacts in the Yadkin-Pee Dee River Basin

Site (Stream)	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 ft)	Stream Impacts Requiring Mitigation (linear ft)
1 (Stream 1)			102	7	109	
1 (Stream 2)			102	4	106	
1 (Stream 3)	47				47	
2 (Stream 4)	114	10			124	
3 (Stream 5)	112	32			144	
4 (Stream 6)	220	6			226	220
5 (Stream 7)	50	5			55	
6 (Stream 9)	112	17			129	
9 (Stream 11)				40	40	
11 (Stream 12)			44		44	
11 (Stream 13)	71				71	
12 (Stream 14	204	19			223	204
14 (Stream 20)		61			61	
18 (Stream 24)			46	16	62	
TOTAL	930	150	294	67	1441	424

Total Stream Impact for Project: 1441 linear feet

Wetland Impacts in the Yadkin-Pee Dee River Basin

Site (Wetland no.)	Fill (ac)	Fill (temporary) (ac)	Excavation (ac)	Mechanized Clearing (ac)	Hand Clearing (ac)	Total Wetland Impact (ac)	Impacts Requiring Mitigation (ac)
8 (Wetland 5)	0.09			0.10 ,		0.19	0.19
10 (Wetland 7)	0.17			0.07		0.24	0.24
11 (Wetland 9)	1.98		0.02	0.25		2.25	2.25
13 (Wetland 13)	0.01			0.02		0.03	0.03
15 (Wetland 20)	0.04			0.03		0.07	0.07
16 (Wetland 21)	0.45			0.18		0.63	0.63
17 (Wetland 23)	0.03			0.04		0.07	0.07
Total	2.77	0.00	0.02	0.69	0.00	3.48	3.48

Total Wetland Impact for Project: 3.48 acres

Isolated Wetland Impacts in the Yadkin-Pee Dee River Basin

Site	Fill (ac)	Fill (temporary) (ac)	Excavation (ac)	Mechanized Clearing (ac)	Hand Clearing (ac)	Total Wetland Impact (ac)
7 (Wetland 4)	0.38			0.15		0.53
TOTAL	0.38	0.00	0.00	0.15	0.00	0.53

Note: Isolated wetland impact is a mitigable impact.

Total Isolated Wetland Impact for Project: 0.53 acres.

The application provides adequate assurance that the discharge of fill material into the waters of the Yadkin-Pee Dee 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 application dated received March 18, 2013, March 28, 2013, and May 7, 2013. Should your project change, you are required to notify the NCDWQ 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 one acre or 150 linear feet, respectively, additional compensatory mitigation may be required as described in 15A NCAC 2H .0506 (h) (6) and (7). 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:

Project Specific Conditions

- * 1. Compensatory mitigation for 424 linear feet of impact to streams is required. We understand that you have chosen to perform compensatory mitigation for impacts to streams through the North Carolina Ecosystem Enhancement Program (EEP), and that the EEP has agreed to implement the mitigation for the project. EEP has indicated in a letter dated March 26, 2012 that they will assume responsibility for satisfying the federal Clean Water Act compensatory mitigation requirements for the above-referenced project, in accordance with the EEP Mitigation Banking Instrument signed July 28, 2010.
- * 2. Compensatory mitigation for impacts to 4.01 acres of riverine wetlands is required. We understand that you have chosen to perform compensatory mitigation for impacts to wetlands through the North Carolina Ecosystem Enhancement Program (EEP), and that the EEP has indicated in a letter dated March 28, 2013 that they will assume responsibility for satisfying the federal Clean Water Act compensatory mitigation requirements for the above-referenced project, in accordance with the North Carolina Department of Environment and Natural Resources' Ecosystem Enhancement Program In-Lieu Fee Instrument signed July 28, 2010.
 - 3. The NCDOT Division Environmental Officer or Environmental Assistant will conduct a pre-construction meeting with all appropriate staff to ensure that the project supervisor and essential staff understand the potential issues with stream and pipe alignment at the permitted site. NCDWQ staff shall be invited to the pre-construction meeting.
 - 4. Post-construction stormwater shall be designed as approved in stormwater management plans dated received March 28, 2013, March 28, 2013, and May 7, 2013. If any changes are made to the post-construction stormwater design, the Division of Water Quality shall be contacted for approval of the changes.
- * 5. Two copies of the final construction drawings shall be furnished to NCDWQ Central Office prior to the preconstruction meeting. The permittee shall provide written verification that the final construction drawings comply with the permit drawings contained in the application dated received May 7, 2013. Any deviations from the approved drawings are not authorized unless approved by the NC Division of Water Quality.
 - NCDOT shall be in compliance with the NCS00250 issued to the NCDOT, including the applicable requirements of the NCG01000. Please note the extra protections for the special or threatened waters.
- 7. Tall fescue shall not be used in the establishment of temporary or permanent groundcover within riparian areas. For the establishment of permanent herbaceous cover, erosion control matting shall be used in conjunction with an appropriate native seed mix on disturbed soils within the riparian area and on disturbed steep slopes with the following exception. Erosion control matting is not necessary if the area is contained by perimeter erosion control devices such as silt fence, temporary sediment ditches, basins, etc. Matting should be secured in place

- with staples, stakes, or wherever possible, live stakes of native trees. Erosion control matting placed in riparian areas shall not contain a nylon mesh grid, which can impinge and entrap small animals. For the establishment of temporary groundcover within riparian areas, hydroseeding along with wood or cellulose based hydro mulch applied from a fertilizer- and limestone-free tank is allowable at the appropriate rate in conjunction with the erosion control measures. Discharging hydroseed mixtures and wood or cellulose mulch into surface waters in prohibited. Riparian areas are defined as a distance 25 feet landward from top of stream bank.
- 8. Channel relocations shall be completed and stabilized, prior to diverting water into the new channel. Stream banks shall be matted with coir-fiber matting. Vegetation used for bank stabilization shall be limited to native riparian vegetation, and should include establishment of a vegetated buffer on both sides of the relocated channel to the maximum extent practical. Also, rip-rap may be allowed if it is necessary to maintain the physical integrity of the stream, but the applicant must provide written justification and any calculations used to determine the extent of rip-rap coverage requested. Once the stream has been turned into the new channel, it may be necessary to relocate stranded fish to the new channel to prevent fish kills.
- 9. All portions of the proposed project draining to 303(d) listed watersheds that are impaired due to biological criteria exceedances shall not discharge stormwater directly to surface waters. Stormwater shall be treated using appropriate best management practices (e.g., vegetated conveyances, constructed wetlands, detention ponds, etc.) prior to discharging to surface waters.
- 10. Unless otherwise approved in this certification, placement of culverts and other structures in open waters and streams shall be placed below the elevation of the streambed by one foot for all culverts with a diameter greater than 48 inches, and 20 percent of the culvert diameter for culverts having a diameter less than 48 inches, to allow low flow passage of water and aquatic life. Design and placement of culverts and other structures including temporary erosion control measures shall not be conducted in a manner that may result in dis-equilibrium of wetlands or streambeds or banks, adjacent to or upstream and downstream of the above structures. The applicant is required to provide evidence that the equilibrium is being maintained if requested in writing by NCDWQ. If this condition is unable to be met due to bedrock, steep slopes or other limiting features encountered during construction, please contact NCDWQ for guidance on how to proceed and to determine whether or not a permit modification will be required.
- 11. If multiple pipes or barrels are required, they shall be designed to mimic natural stream cross section as closely as possible including pipes or barrels at flood plain elevation and/or sills where appropriate. Widening the stream channel should be avoided. Stream channel widening at the inlet or outlet end of structures typically decreases water velocity causing sediment deposition that requires increased maintenance and disrupts aquatic life passage.
- 12. Pipes and culverts used exclusively to maintain equilibrium in wetlands, where aquatic life passage is not a concern, shall not be buried. These pipes shall be installed at natural ground elevation
- 13. Strict adherence to the most recent version of NCDOT's Best Management Practices For Bridge Demolition and Removal approved by the US Army Corps of Engineers is a condition of the Individual Water Quality Certification.
- 14. Bridge deck drains shall not discharge directly into the stream. Stormwater shall be directed across the bridge and pre-treated through site-appropriate means (grassed swales, pre-formed scour holes, vegetated buffers, etc.) before entering the stream. Please refer to the most current version of Stormwater Best Management Practices.
- 15. Bridge piles and bents shall be constructed using driven piles (hammer or vibratory) or drilled shaft construction methods. More specifically, jetting or other methods of pile driving are prohibited without prior written approval from NCDWQ first.
- 16. No drill slurry or water that has been in contact with uncured concrete shall be allowed to enter surface waters. This water shall be captured, treated, and disposed of properly.
- All pile driving or drilling activities shall be enclosed in turbidity curtains unless otherwise approved by NCDWQ in this certification.
- 18. All bridge construction shall be performed from the existing bridge, temporary work bridges, temporary causeways, or floating or sunken barges. If work conditions require barges, they shall be floated into position and then sunk. The barges shall not be sunk and then dragged into position. Under no circumstances should barges be dragged along the bottom of the surface water.
- 19. Riprap shall not be placed in the active thalweg channel or placed in the streambed in a manner that precludes aquatic life passage. Bioengineering boulders or structures should be properly designed, sized and installed.
- 20. For the 217 linear feet of streams being impacted due to site dewatering activities, the site shall be graded to its preconstruction contours and revegetated with appropriate native species.
- 21. The post-construction removal of any temporary bridge structures must return the project site to its preconstruction contours and elevations. The impacted areas shall be revegetated with appropriate native species.
- 22. The stream channel shall be excavated no deeper than the natural bed material of the stream, to the maximum extent practicable. Efforts must be made to minimize impacts to the stream banks, as well as to vegetation responsible for maintaining the stream bank stability. Any applicable riparian buffer impact for access to stream channel shall be temporary and be revegetated with native riparian species.

General Conditions

- 1. The outside buffer, wetland or water boundary located within the construction corridor approved by this authorization shall be clearly marked by highly visible fencing prior to any land disturbing activities. Impacts to areas within the fencing are prohibited unless otherwise authorized by this certification.
- The Permittee shall report any violations of this certification to the Division of Water Quality within 24 hours of discovery.
- 3. If concrete is used during construction, a dry work area shall be maintained to prevent direct contact between curing concrete and stream water. Water that inadvertently contacts uncured concrete shall not be discharged to surface waters due to the potential for elevated pH and possible aquatic life and fish kills.
- 4. During the construction of the project, no staging of equipment of any kind is permitted in waters of the U.S., or protected riparian buffers.
- 5. The dimension, pattern and profile of the stream above and below the crossing shall not be modified. Disturbed floodplains and streams shall be restored to natural geomorphic conditions.
- 6. The use of rip-rap above the Normal High Water Mark shall be minimized. Any rip-rap placed for stream stabilization shall be placed in stream channels in such a manner that it does not impede aquatic life passage.
- * 7. The Permittee shall ensure that the final design drawings adhere to the permit and to the permit drawings submitted for approval.
 - 8. All work in or adjacent to stream waters shall be conducted in a dry work area. Approved BMP measures from the most current version of NCDOT Construction and Maintenance Activities manual such as sandbags, rock berms, cofferdams and other diversion structures shall be used to prevent excavation in flowing water.
 - 9. Heavy equipment shall be operated from the banks rather than in the stream channel in order to minimize sedimentation and reduce the introduction of other pollutants into the stream.
 - 10. All mechanized equipment operated near surface waters must be regularly inspected and maintained to prevent contamination of stream waters from fuels, lubricants, hydraulic fluids, or other toxic materials.
 - 11. No rock, sand or other materials shall be dredged from the stream channel except where authorized by this certification.
 - 12. Discharging hydroseed mixtures and washing out hydroseeders and other equipment in or adjacent to surface waters is prohibited.
 - 13. The permittee and its authorized agents shall conduct its activities in a manner consistent with State water quality standards (including any requirements resulting from compliance with §303(d) of the Clean Water Act) and any other appropriate requirements of State and Federal law. If NCDWQ determines that such standards or laws are not being met (including the failure to sustain a designated or achieved use) or that State or federal law is being violated, or that further conditions are necessary to assure compliance, NCDWQ may reevaluate and modify this certification.
 - 14. All fill slopes located in jurisdictional wetlands shall be placed at slopes no flatter than 3:1, unless otherwise authorized by this certification..
 - 15. A copy of this Water Quality Certification shall be maintained on the construction site at all times. In addition, the Water Quality Certification and all subsequent modifications, if any, shall be maintained with the Division Engineer and the on-site project manager.
 - 16. The issuance of this certification does not exempt the Permittee from complying with any and all statutes, rules, regulations, or ordinances that may be imposed by other government agencies (i.e. local, state, and federal) having jurisdiction, including but not limited to applicable buffer rules, stormwater management rules, soil erosion and sedimentation control requirements, etc.
- * 17. Upon completion of the project (including any impacts at associated borrow or waste sites), the NCDOT Division Engineer shall complete and return the enclosed "Certification of Completion Form" to notify NCDWQ when all work included in the 401 Certification and Isolated Wetlands Permit have been completed.
 - 18. Native riparian vegetation must be reestablished in the riparian areas within the construction limits of the project by the end of the growing season following completion of construction.
 - 19. There shall be no excavation from, or waste disposal into, jurisdictional wetlands or waters associated with this permit without appropriate modification. Should waste or borrow sites, or access roads to waste or borrow sites, be located in wetlands or streams, compensatory mitigation will be required since that is a direct impact from road construction activities.
 - 20. Erosion and sediment control practices must be in full compliance with all specifications governing the proper design, installation and operation and maintenance of such Best Management Practices in order to protect surface waters standards:
 - a. The erosion and sediment control measures for the project must be designed, installed, operated, and maintained in accordance with the most recent version of the North Carolina Sediment and Erosion Control Planning and Design Manual.

- b. The design, installation, operation, and maintenance of the sediment and erosion control measures must be such that they equal, or exceed, the requirements specified in the most recent version of the North Carolina Sediment and Erosion Control Manual. The devices shall be maintained on all construction sites, borrow sites, and waste pile (spoil) projects, including contractor-owned or leased borrow pits associated with the project.
- c. For borrow pit sites, the erosion and sediment control measures must be designed, installed, operated, and maintained in accordance with the most recent version of the North Carolina Surface Mining Manual.
- d. The reclamation measures and implementation must comply with the reclamation in accordance with the requirements of the Sedimentation Pollution Control Act.
- 21. Sediment and erosion control measures shall not be placed in wetlands or waters unless otherwise approved 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 DENR as follows:

Mr. William Cary, General Counsel
Department of Environment and Natural Resources
1601 Mail Service Center

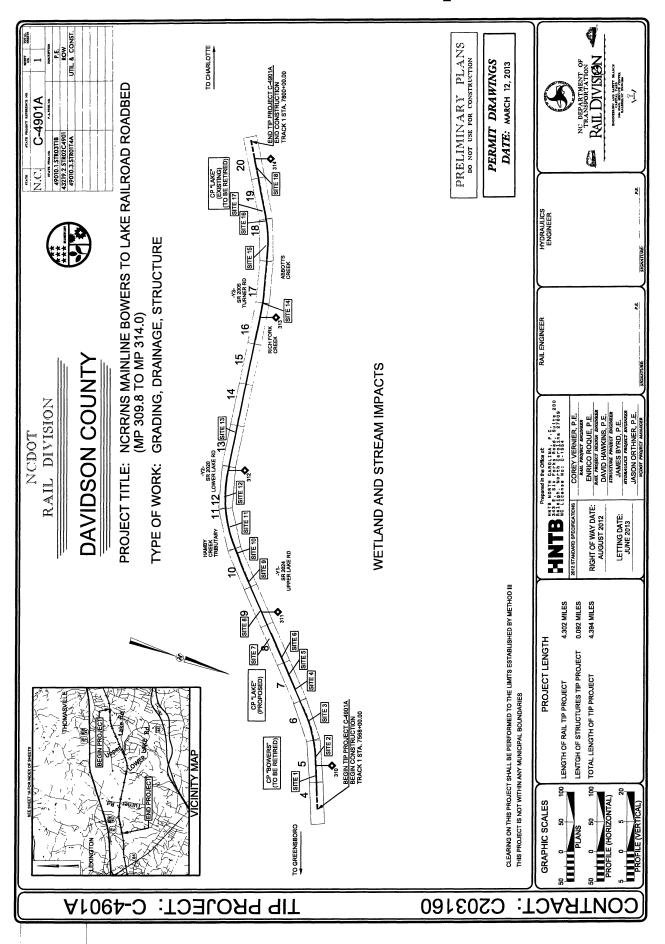
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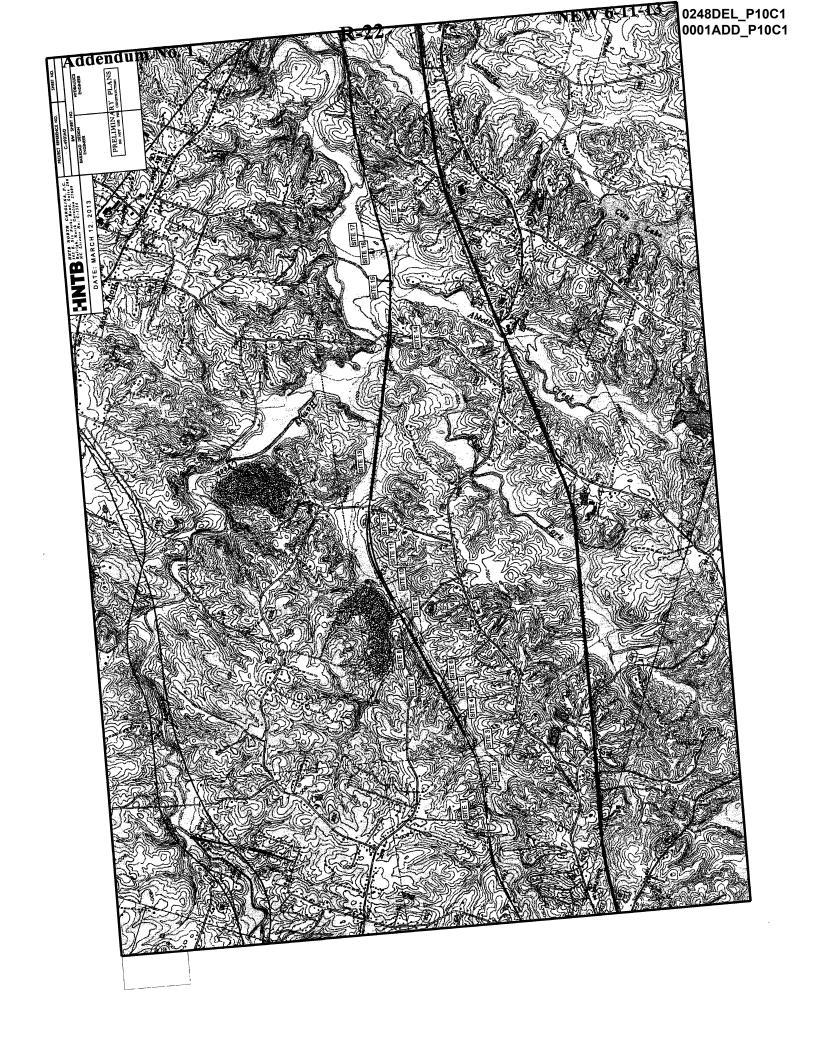
DIVISION OF WATER QUALITY

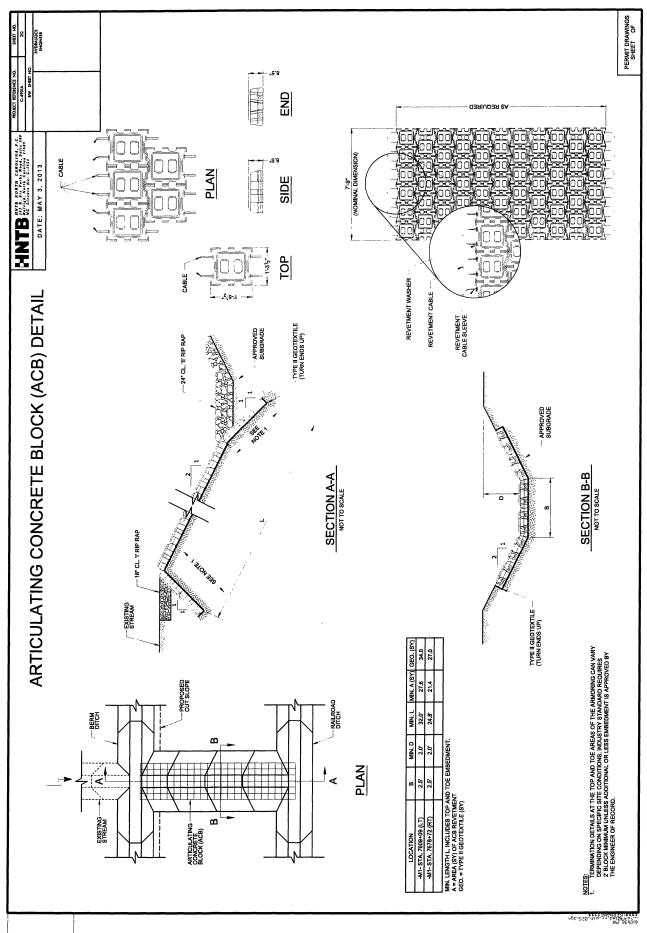
Charles Wakild Director

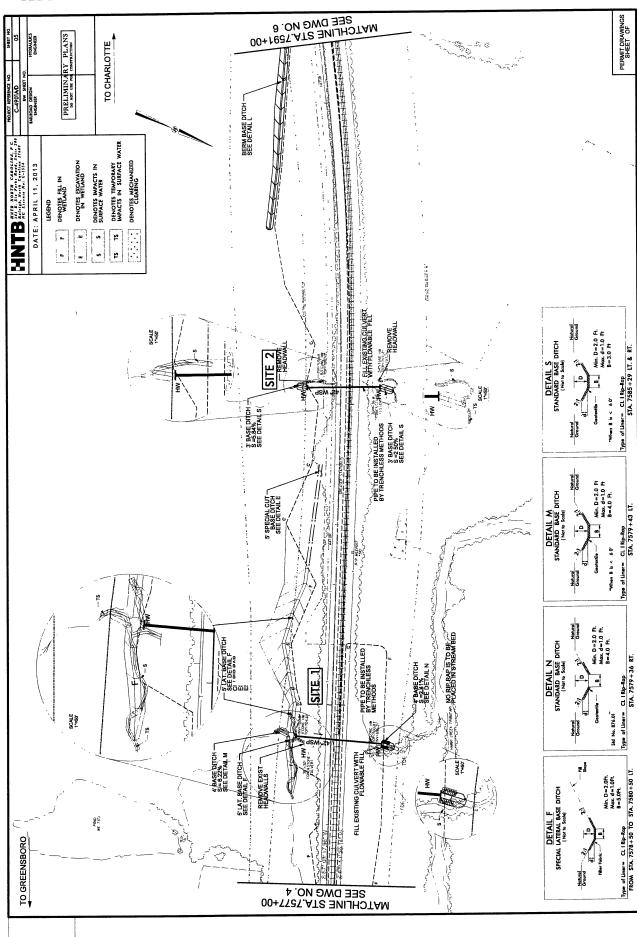
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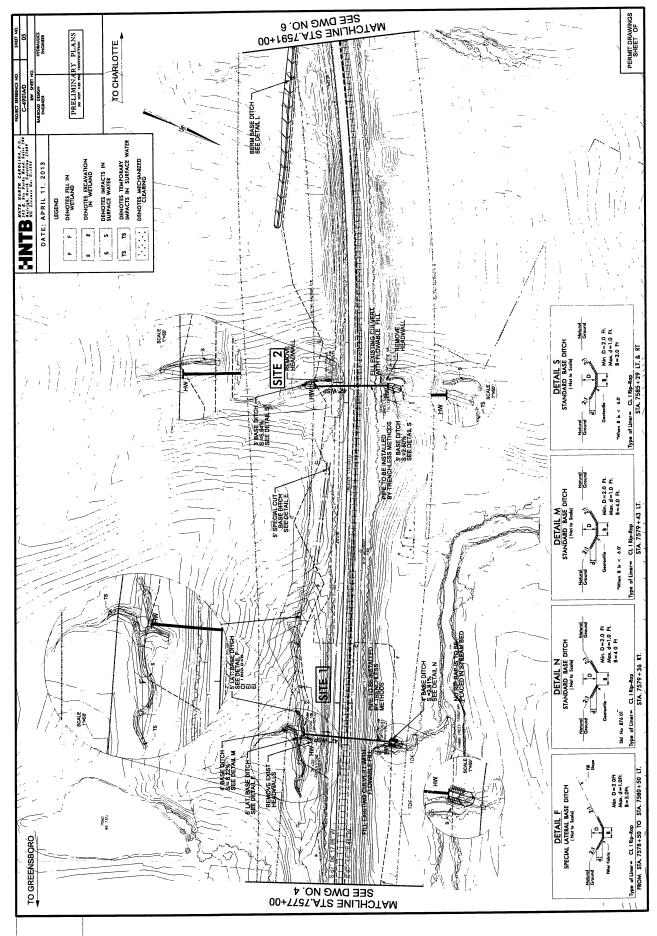
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762449 to 7632-34 LT FHI Slope 0.38	0.38 0.15 </td <td> 7863-60 to 7864-75 LT Fill Stope 0.38</td> <td>9</td> <td>7620+60</td> <td>48" WSP</td> <td>•</td> <td>-</td> <td>,</td> <td></td> <td></td> <td>0.01</td> <td>0.01</td> <td>112</td> <td>17</td> <td>ŀ</td>	7863-60 to 7864-75 LT Fill Stope 0.38	9	7620+60	48" WSP	•	-	,			0.01	0.01	112	17	ŀ
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7648+60 LT Ditch Excavation 40 7656+00 to 7662+45 RT Fill Slope 0.17 0.008 0.07	0.17 40 1.98 0.008 0.07 </td <td> 0.17 0.008 0.07 0.02 0.15 0.02 0.01 0.02 0.02 0.01 0.02 0.01 0.02 0.01 0.02 0.01 0.02 0.01 0.02 0.01 0.02 0.01 0.02 0.01 0.02 0.01 0.02 0.03 0.04 0.03 0.04 0.03 0.04 0.03 0.04 0.03 0.04 0.03 0.04 0.03 0.04 0.03 0.04 0.02 0.04 0.02 0.04 0.02 0.04 0.02 0.04 0.02 0.04 0.02 0.04 0.03 0.04 0.04 0.05 0.04 0.05 </td> <td>8</td> <td>7635+60 to 7640+75 LT</td> <td>Fill Slope</td> <td>60:0</td> <td>•</td> <td></td> <td>0.10</td> <td></td> <td>-</td> <td></td> <td>,</td> <td></td> <td></td>	0.17 0.008 0.07 0.02 0.15 0.02 0.01 0.02 0.02 0.01 0.02 0.01 0.02 0.01 0.02 0.01 0.02 0.01 0.02 0.01 0.02 0.01 0.02 0.01 0.02 0.01 0.02 0.03 0.04 0.03 0.04 0.03 0.04 0.03 0.04 0.03 0.04 0.03 0.04 0.03 0.04 0.03 0.04 0.02 0.04 0.02 0.04 0.02 0.04 0.02 0.04 0.02 0.04 0.02 0.04 0.03 0.04 0.04 0.05 0.04 0.05	8	7635+60 to 7640+75 LT	Fill Slope	60:0	•		0.10		-		,		
7665-60 to 7662-45 RT Fill Slope 0.17 0.008 0.07	0.17 0.008 0.07 115 115 115 115 116 116 116 116 116 116 116 116 116 116 116 116 116 116 116 116 116 116 116	0.17	6	7648+60 LT	Ditch Excavation		-	•	,			0.01	,	9	
7662+50 to 7674+12 RT Fill Slope 1.98 0.016 0.25 0.02 115 -	1,98 0,016 0,025 0,02 115 115 115 115 115 115 115 115 115 116 116 116 116 116 116 116 116 116 116 116 116 116 116	1.96 0.016 0.25 0.002 115	5	7656+00 to 7662+45 RT	Fill Slope	0.17	•	0.008	0.07						
7678+66 54" BCCMP 0.02 0.02 0.01 19 19 18 7700+00 to 7701+87 LT Fill Slope 0.01 0.02	0.02 0.02 <th< td=""><td>0.01</td><td>Ξ</td><td>7662+50 to 7674+12 RT</td><td>Fill Slope</td><td>1.98</td><td>•</td><td>0.016</td><td>0.25</td><td>1</td><td>0.02</td><td></td><td>115</td><td></td><td></td></th<>	0.01	Ξ	7662+50 to 7674+12 RT	Fill Slope	1.98	•	0.016	0.25	1	0.02		115		
7700+00 to 7701+87 LT Fill Slope 0.01 - - 0.02 -	0.01 . 0.02 . </td <td>0.01</td> <td>12</td> <td>7678+66</td> <td>54" BCCMP</td> <td>•</td> <td>•</td> <td>1</td> <td></td> <td></td> <td>0.02</td> <td>0.01</td> <td>204</td> <td>19</td> <td></td>	0.01	12	7678+66	54" BCCMP	•	•	1			0.02	0.01	204	19	
7745+00 Ditch Excavation - - - - - - 61 - 61 - <td>- - - - 61 0.04 - 0.03 -<</td> <td>0.04</td> <td>13</td> <td>7700+00 to 7701+87 LT</td> <td>Fill Slope</td> <td>0.01</td> <td>-</td> <td></td> <td>0.02</td> <td></td> <td></td> <td></td> <td>-</td> <td></td> <td></td>	- - - - 61 0.04 - 0.03 -<	0.04	13	7700+00 to 7701+87 LT	Fill Slope	0.01	-		0.02				-		
7763+50 to 7764+67 LT Fill Slope 0.04 . 0.03 .	0.04 . 0.03 . </td <td>0.04</td> <td>14</td> <td>7745+00</td> <td>Ditch Excavation</td> <td>•</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>10.0</td> <td>-</td> <td>19</td> <td></td>	0.04	14	7745+00	Ditch Excavation	•						10.0	-	19	
7766+32 to 7775+62 LT Fill Slope 0.45 . 0.18 .	0.45 0.18	0.45 0.18	15	7763+50 to 7764+67 LT	Fill Slope	0.04	•	ı	0.03		,				
7776+00 to 7778+50 LT Fill Slope 0.03 . 0.04 .	0.03 - 0.04 - </td <td>0.03</td> <td>16</td> <td>7766+32 to 7775+62 LT</td> <td>Fill Slope</td> <td>0.45</td> <td></td> <td></td> <td>0.18</td> <td></td> <td></td> <td></td> <td>1</td> <td></td> <td></td>	0.03	16	7766+32 to 7775+62 LT	Fill Slope	0.45			0.18				1		
7790+66 48" WSP -	0.01 0.01 46 16 16		17	7776+00 to 7778+50 LT	Fill Slope	0.03	-	•	0.04						
<td>3.13 0.00 0.02 0.84 0.00 0.12 0.02 1224 217</td> <td>3.13 0.00 0.02 0.84 0.00 0.12 0.02 1224 2.17 Column</td> <td>18</td> <td>7790+66</td> <td>48" WSP</td> <td>•</td> <td></td> <td>•</td> <td>-</td> <td></td> <td>0.01</td> <td>0.01</td> <td>46</td> <td>16</td> <td></td>	3.13 0.00 0.02 0.84 0.00 0.12 0.02 1224 217	3.13 0.00 0.02 0.84 0.00 0.12 0.02 1224 2.17 Column	18	7790+66	48" WSP	•		•	-		0.01	0.01	46	16	
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3.13 0.00 0.02 0.84 0.00 0.12 0.02 1224 217	3.13 0.00 0.02 0.84 0.00 0.12 0.02 1224 217	3.13 0.00 0.02 0.84 0.00 0.12 0.02 1224 217 NC DEPARTMENT OF HIGHWAYS BOWERS TO LAKE GRADE SEPARAD DOUBLETRACK PROJECT PROJEC				,	-	,	•	-					
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	VSP - WELDED STEEL PIPE ICCMP - BITUMINOUS COATED CORRUGATED METAL PIPE	NC DEPARTMENT OF TRANSPOR DIVISION OF HIGHWAYS BOWERS TO LAKE GRADE SEPA AND DOUBLETRACK PROJE C-4901 A/D	OTALS:			3.13	0.00	0.02	0.84	0.00	0.12	0.02	1224	217	0
NOTIVE DE DISMERS DE LA COMPANION DE LA COMPAN		BOWERS TO LAKE GRADE SEPARATION AND DOUBLETRACK PROJECT C-4901 A/D										2	DIVISION O	F HIGHWAY	S
NC DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS	DIVISION OF HIGHWAYS	AND DOUBLETRACK PROJECT C-4901 A/D										BOW	ERS TO LAKE	GRADE SEF	ARATION
NC DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS BOWERS TO LAKE GRADE SEPARATION	DIVISION OF HIGHWAYS BOWERS TO LAKE GRADE SEPARATION											*	AND DOUBLET C-490	rrack pro. 31 a/d	ECT
NC DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS BOWERS TO LAKE GRADE SEPARATION AND DOUBLETRACK PROJECT C-4901 A/D	DIVISION OF HIGHWAYS BOWERS TO LAKE GRADE SEPARATION AND DOUBLETRACK PROJECT C-4901 A/D														

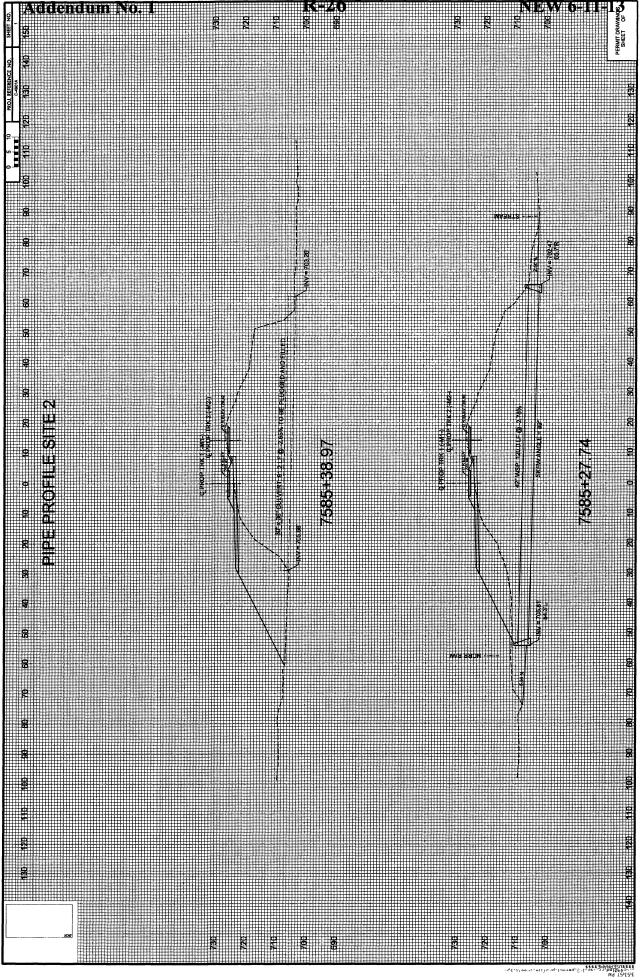


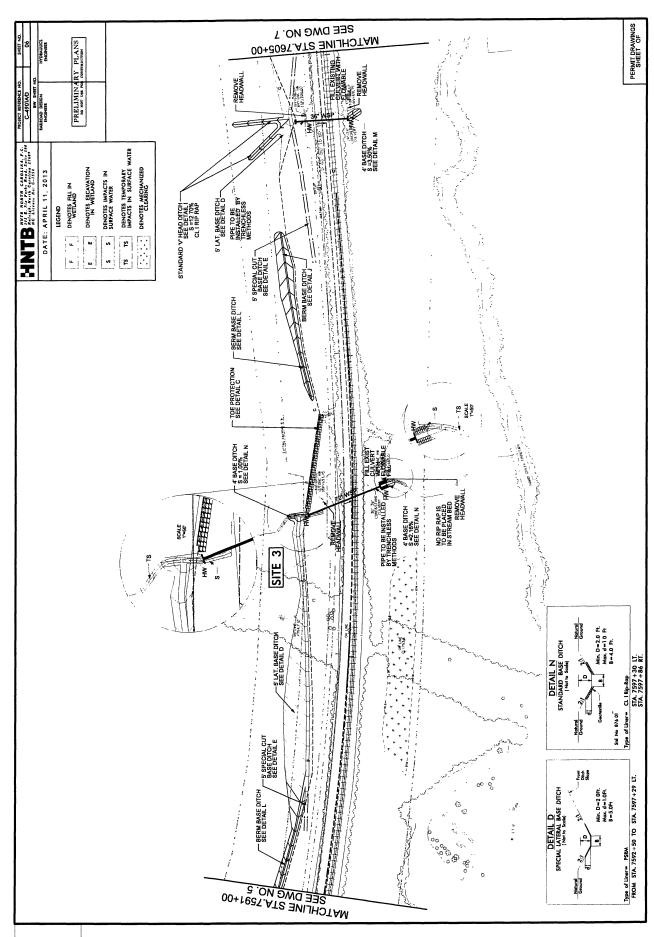


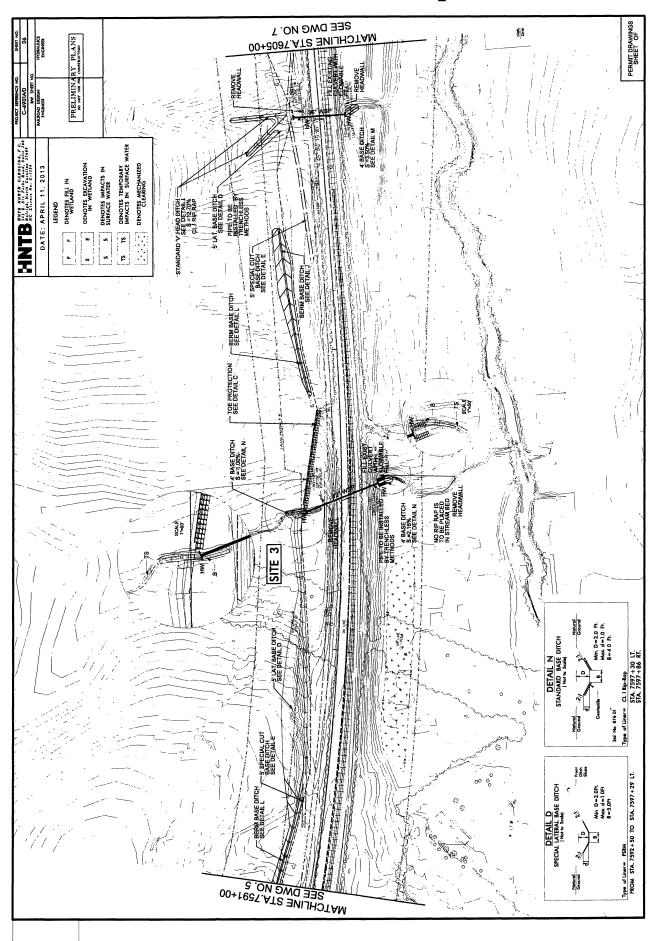


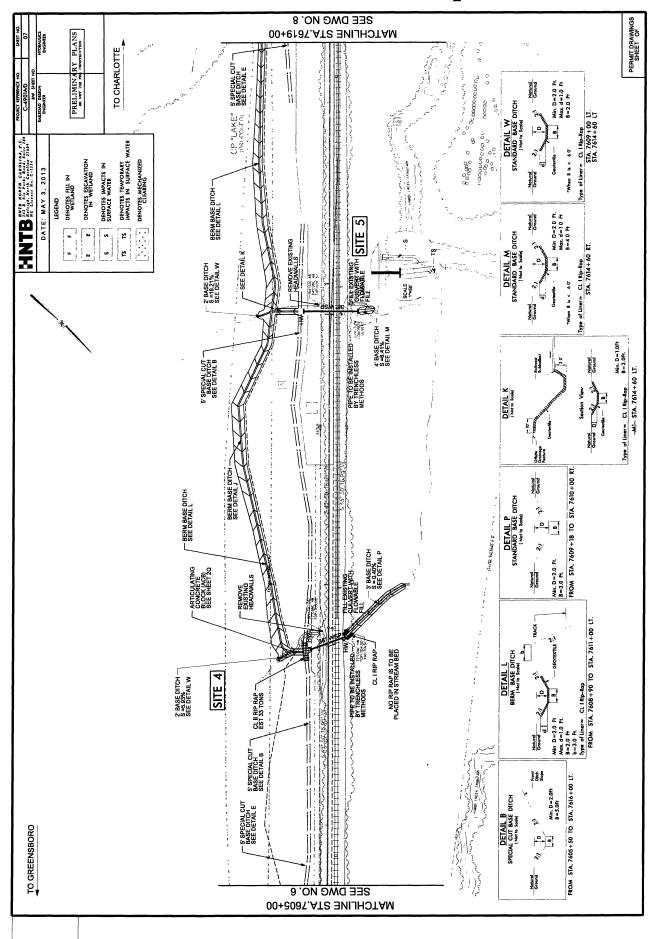












то сняяготте

DENOTES TEMPORARY IMPACTS IN SURFACE WATER

DENOTES MECHANIZED CLEARING

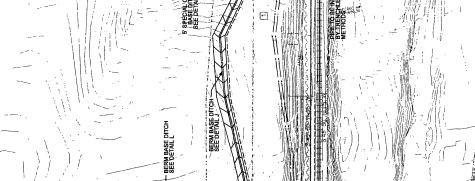
DENOTES EXCAVATION IN WETLAND

DENOTES FILL IN WETLAND DENOTES IMPACTS IN SURFACE WATER

Type of Liner CL | Rip-Rap STA, 7614+60 RT.

Min. D=1 0H
Type of Liner= CL I Rip-Rap B=2.0Ft.
-Mi- STA 7614+60 LT.

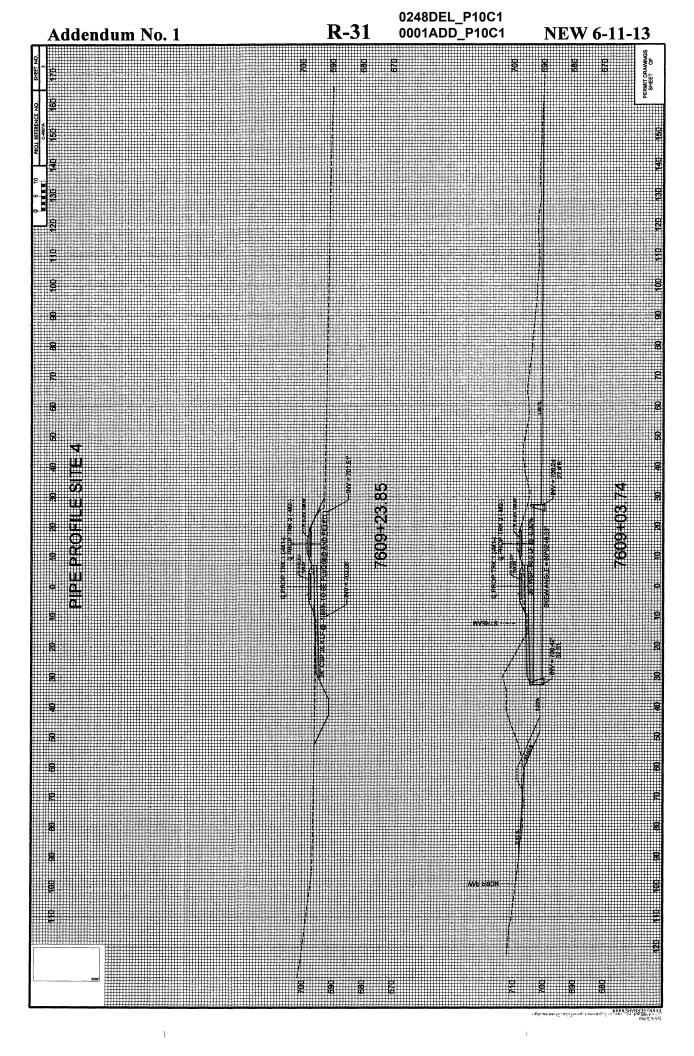
PERMIT DRAWINGS SHEET OF

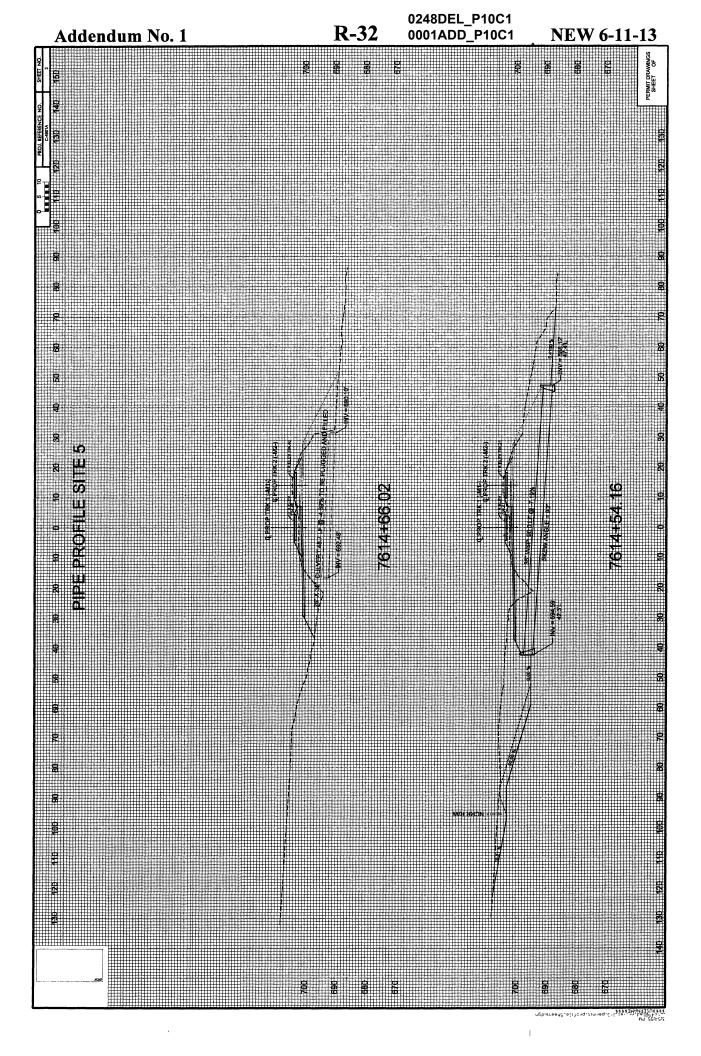


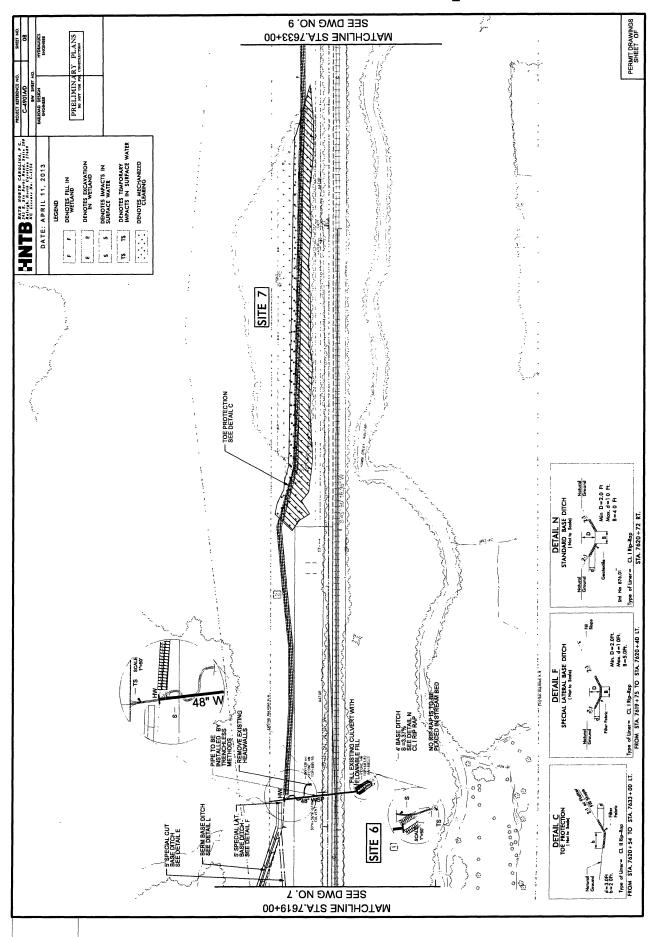
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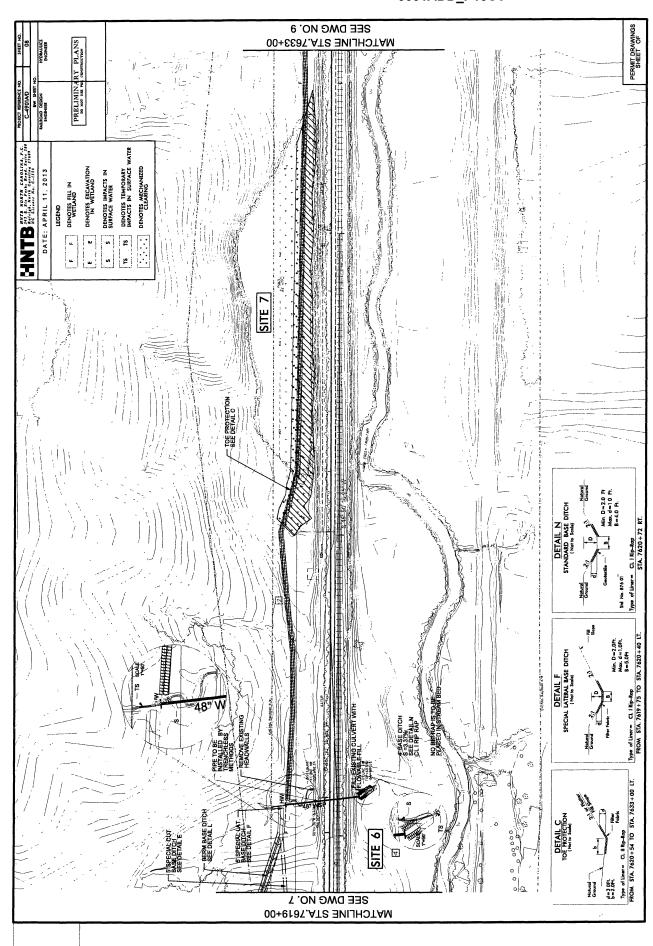
MATCHLINE STA.7605+00 SEE DWG NO. 6 DETAIL | DETAIL | STANDARD BASE DITCH | STANDARD BASE DITCH | DETAIL | DETA

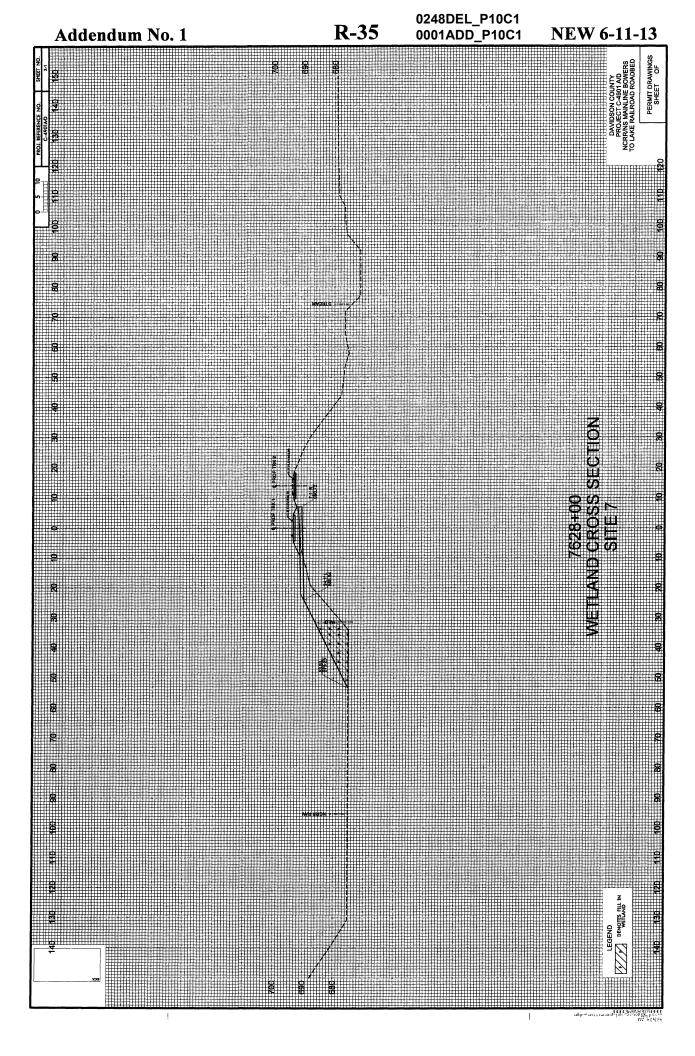
| SPECIAL B | SPECIAL CUT BASE DITCH | Second Circuit Second | Control Circuit Second Circuit Second | Control Circuit Se

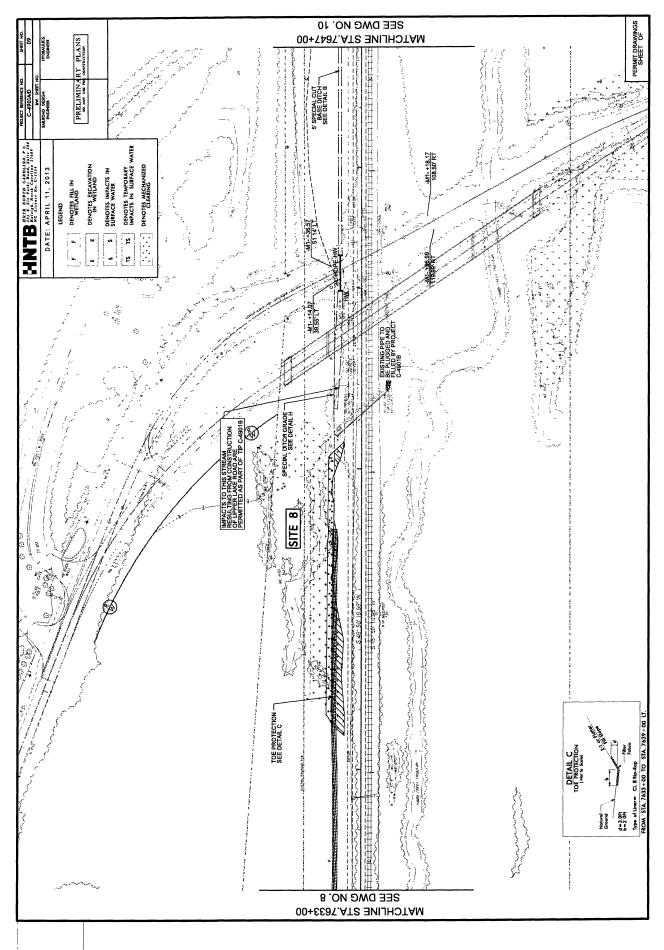




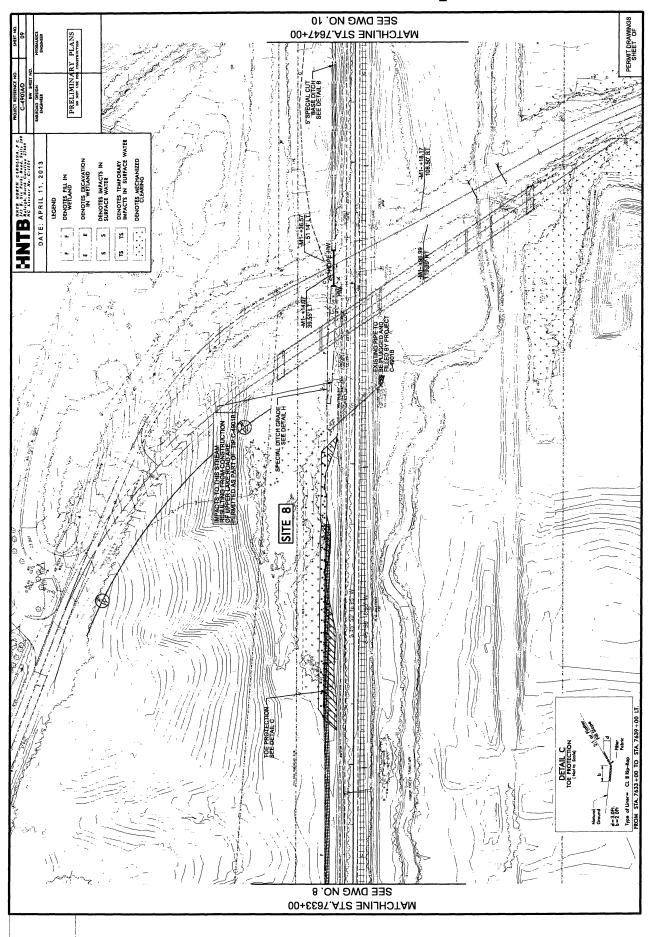


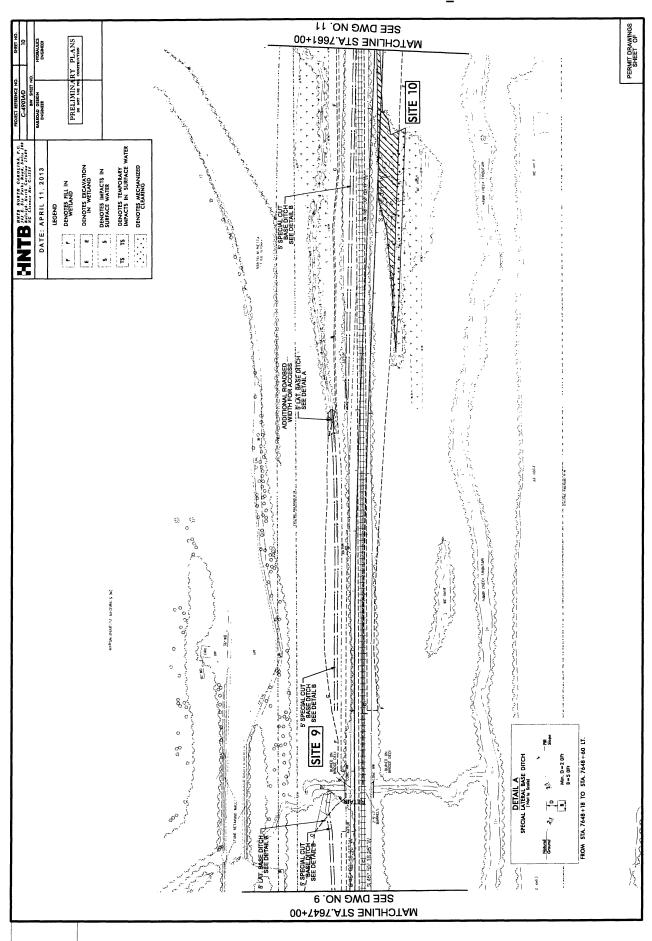


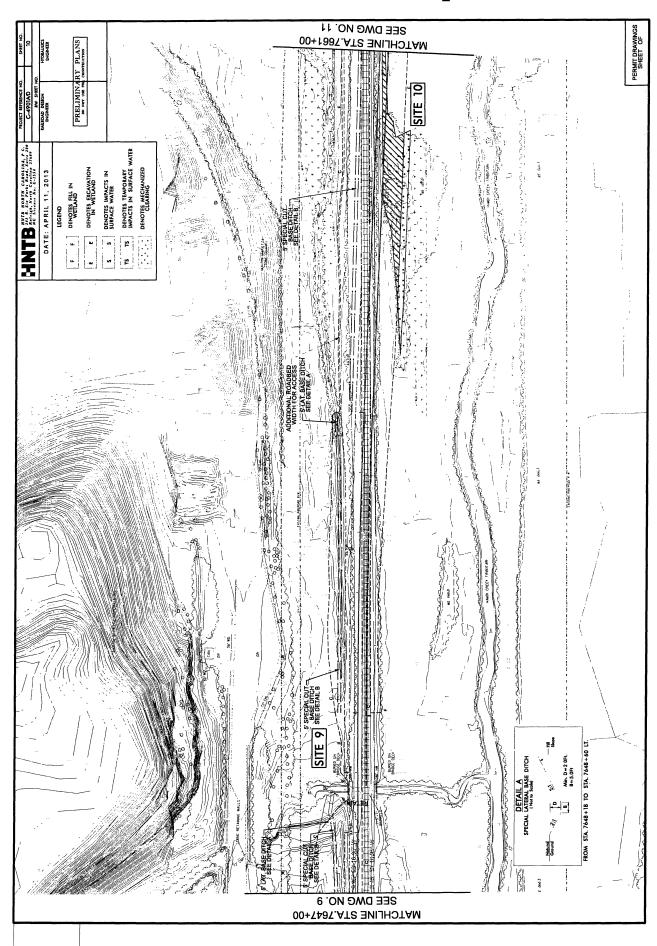


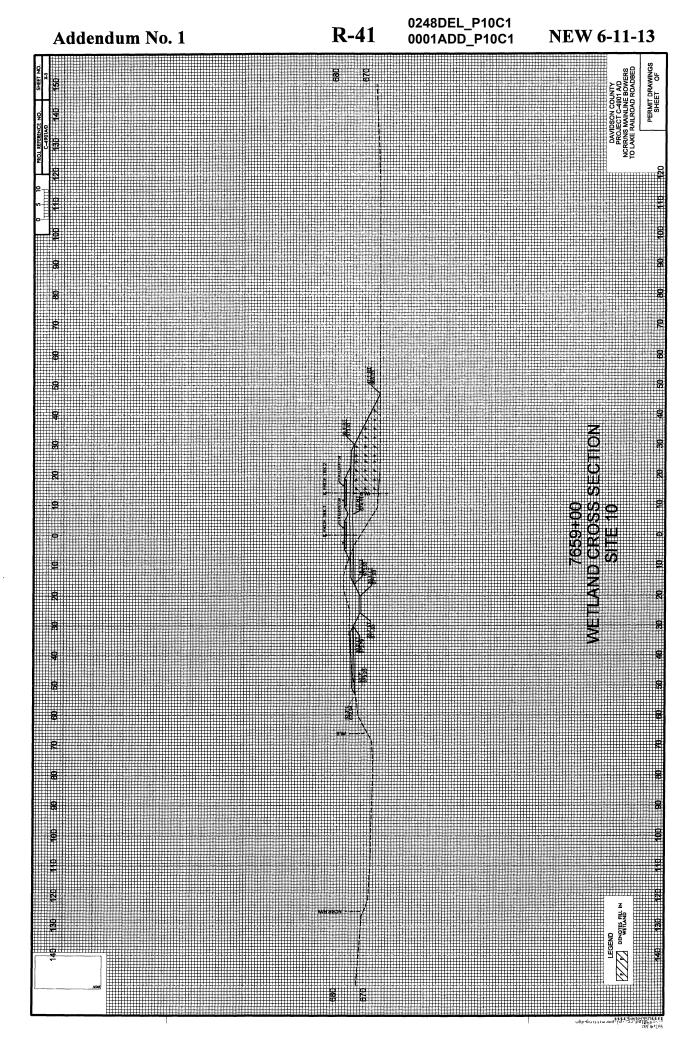


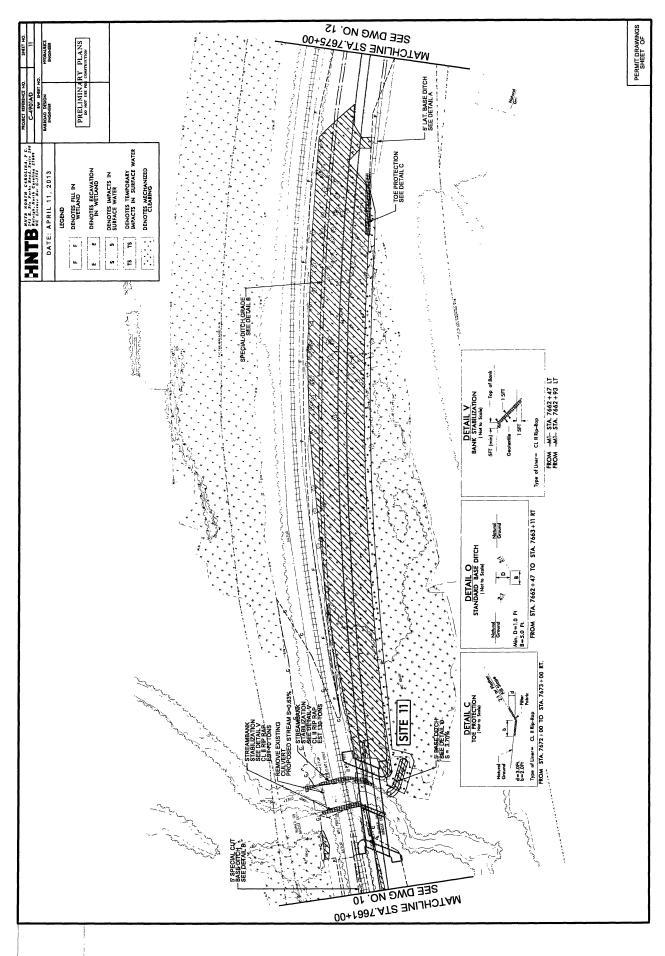
NEW 6-11-13

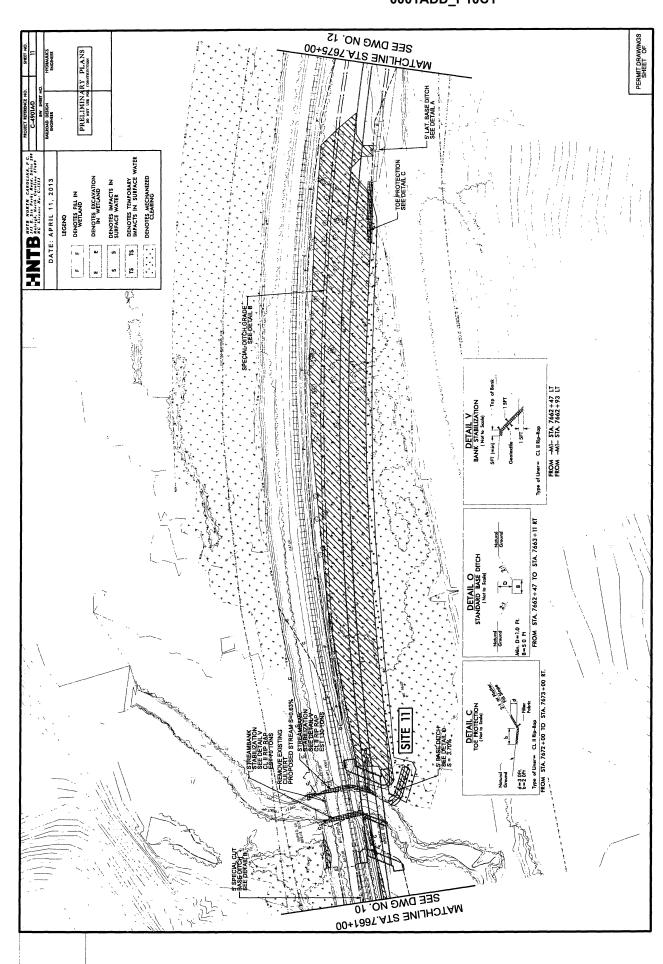


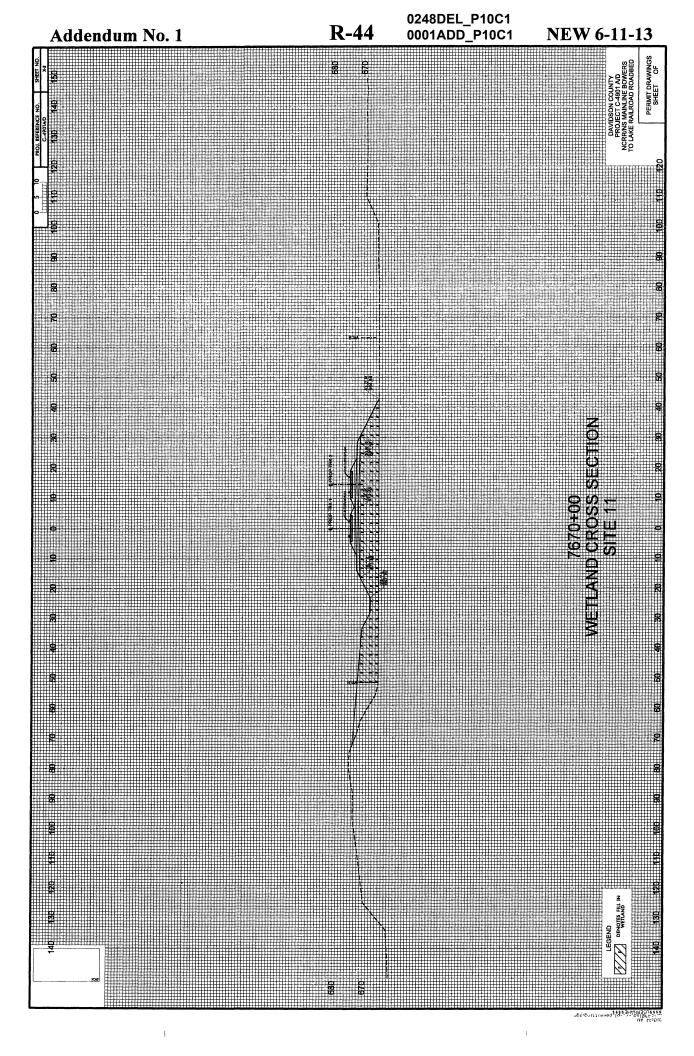


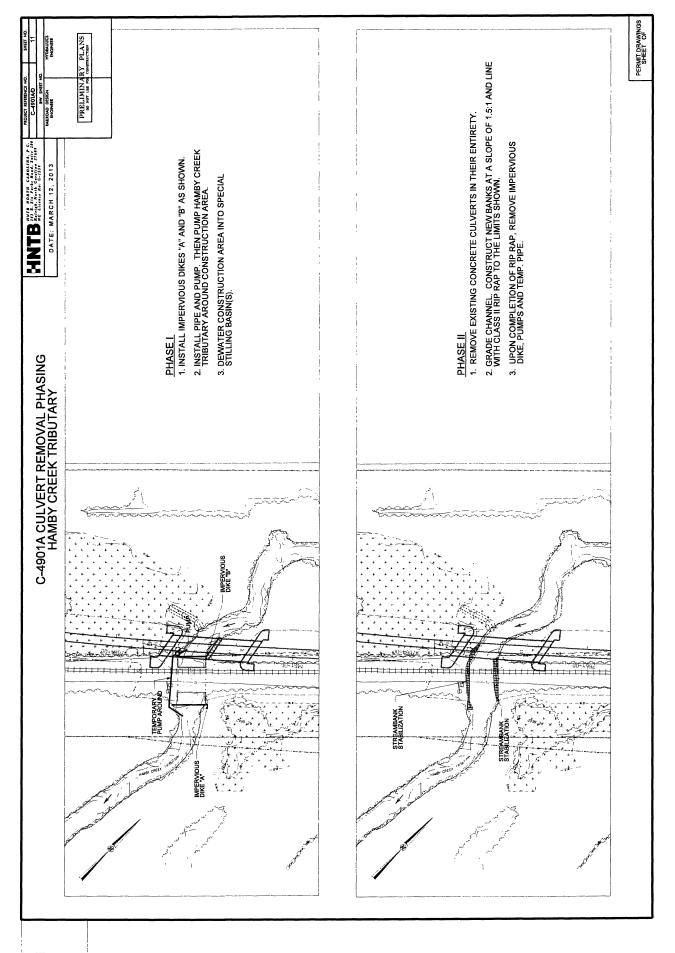


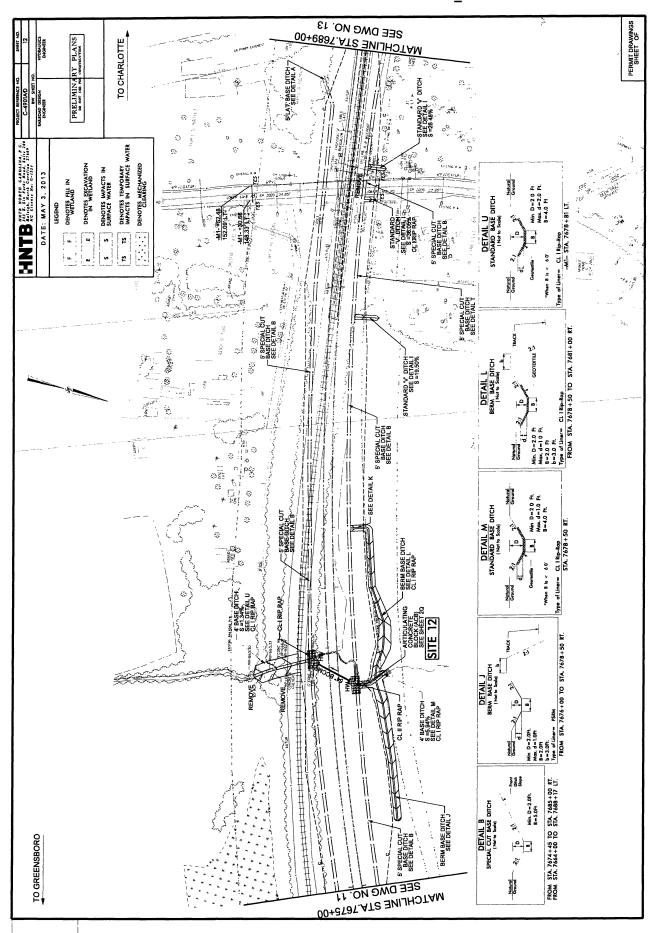


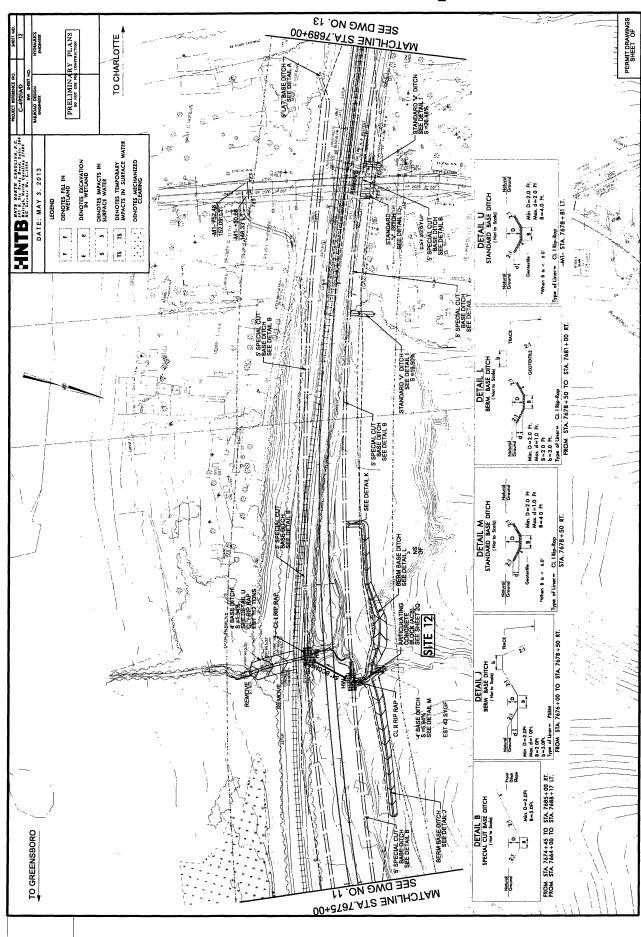


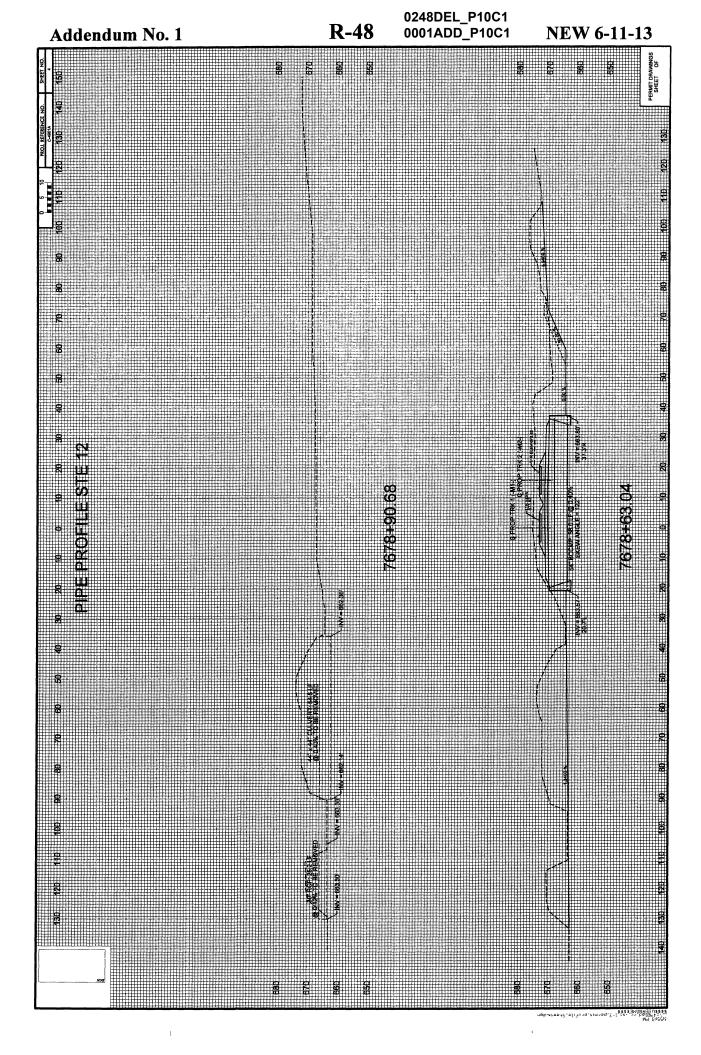












Addendum No. 1 R-49 0248DEL_P10C1 NEW 6-11-13

