



STATE OF NORTH CAROLINA  
DEPARTMENT OF TRANSPORTATION

ROY COOPER  
GOVERNOR

JAMES H. TROGDON, III  
SECRETARY

May 4, 2017

MEMORANDUM TO: Mr. Jerry Jennings, P.E.  
Division 1 Engineer  
*REPSIL*

FROM: Philip S. Harris, III, P.E., C.P.M, Manager  
Natural Environment Section

SUBJECT: Hertford County; Improvements along NC 11 from west of SR 1130  
(Modlin Road) to east of NC 11/SR 1213 (Old NC 11 Road); Federal  
Aid No. NHF-0013(37); WBS 45449.1.1; TIP R-5311A.

Attached are the U.S. Army Corps of Engineers Individual Permit, N.C. Division of Water Resources (NCDWR) Water Quality Certification, and the N.C Division of Coastal Management Consistency Concurrence. All environmental permits have been received for the construction of this project.

A copy of this permit package will be posted on the NCDOT website at:  
<https://connect.ncdot.gov/resources/Environmental/Pages/default.aspx>  
Quick Links>Permit Documents> Issued Permits.

cc: w/o attachment (see website for attachments)

Mr. Andy Gay, P.E. Contracts Management  
Mr. Clay Willis, Division Environmental Officer  
Dr. Majed Al-Ghandour, P.E., Programming and TIP  
Mr. Glenn Mumford, P.E., Roadway Design  
Mr. Carl Barclay, P.E., Utilities  
Mr. Jay Twisdale, P.E., Hydraulics  
Mr. Brian Hanks, P.E., Structure Design  
Mr. Mark Staley, Roadside Environmental  
Mr. Ron Hancock, P.E., State Roadway Construction Engineer  
Mr. Jay McInnis, P.E., Project Development  
Ms. Beth Harmon, NC Division of Mitigation Services  
Mr. Philp Ayscue, Single Audit Compliance

*Mailing Address:*  
NC DEPARTMENT OF TRANSPORTATION  
NATURAL ENVIRONMENT SECTION  
1598 MAIL SERVICE CENTER  
RALEIGH NC 27699-1598

*Telephone:* (919) 707-6000  
*Fax:* (919) 212-5785  
*Customer Service:* 1-877-368-4968  
*Website:* [www.ncdot.gov](http://www.ncdot.gov)

*Location:*  
1020 BIRCH RIDGE DRIVE  
RALEIGH NC 27610

## PROJECT COMMITMENTS

NC 11 and US 13  
From NC 11/NC 561 near Ahoskie to US 13/US 158/NC 45 near Winton  
Hertford County  
Federal-Aid Project NHF-0013(37)  
WBS Element 45449.1.1  
**TIP Project R-5311**

## COMMITMENTS FROM PROJECT DEVELOPMENT AND DESIGN

### **Project Development and Environmental Analysis Unit**

Additional coordination will occur with the State Historic Preservation Office if it is determined during the design phase that full movement access to SR 1131 (Saluda Hall Road) for the National Register-eligible Newsome-Hall House property cannot be provided.

*The Newsome-Hall House property will not be impacted by R-5311A; therefore this commitment will be coordinated during design of R-5311B*

### **Roadway Design Unit**

No additional right of way or easements will be acquired from the National Register-eligible Newsome-Hall House property.

A small family cemetery, the Keene Cemetery, was identified along the new location portion of the project, just south of SR 1409 (Hall Siding Road). Its approximate location is identified on Figure 2D. The cemetery lies in close proximity to the proposed right of way. Efforts will be made during final design to avoid the cemetery if possible.

*The Newsome-Hall House property and the Keene Cemetery will not be impacted by R-5311A; therefore this commitment will be coordinated during design of R-5311B*

## COMMITMENTS FROM PERMITTING

### **Roadside Environmental Unit, Division 1 Construction**

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. For fences serving as a visual identifier of the limits of construction within any jurisdictional area, see USACE Individual Permit (Special Condition 9.a) for removal timelines.



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

May 3, 2017

Regulatory Division

Action ID: SAW-2011-01243

North Carolina Department of Transportation  
Project Development and Environmental Analysis Unit  
Attn: Mr. Phillip S. Harris, III, P.E., C.P.M.  
1598 Mail Service Center  
Raleigh, North Carolina 27699-1598

Dear Mr. Harris:

In accordance with the written request of December 8, 2016, and the ensuing administrative record, enclosed is a Department of the Army (DA) Permit to authorize the discharge of fill material into waters of the United States associated with the safety improvements and grade separation at North Carolina State Road 1130 (Modlin Road) and the interchange at Old NC 11/NC State Road 1213 (TIP # R-5311A) in Hertford County, North Carolina. Specifically, authorized impacts include the permanent impact to 11.47 acres (9.27 permanent fill, 1.17 excavation, 1.03 mechanized land clearing) of wetlands and temporary impacts to 1.16 acres (.50 for the construction of project and .66 for utility line relocation) of wetlands from hand clearing.

Any deviation in the authorized work will likely require modification of this permit. If a change in the authorized work is necessary, you should promptly submit revised plans to the Corps showing the proposed changes. You may not undertake the proposed changes until the Corps notified you that your permit has been modified.

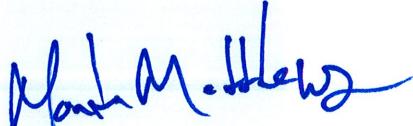
Carefully read your permit. The general and special conditions are important. Your failure to comply with these conditions could result in a violation of Federal law. Certain significant general conditions require that:

- a. You must complete construction before December 31, 2022.
- b. You must notify this office in advance as to when you intend to commence and complete work.
- c. You must allow representatives from this office to make periodic visits to your worksite as deemed necessary to assure compliance with permit plans and conditions.

You should address all questions regarding this authorization to Mr. Bill Biddlecome in the Washington Regulatory Field Office, telephone number (910) 251-4558.

Thank you in advance for completing our Customer Survey Form. This can be accomplished by visiting our web-site at [http://corpsmapu.usace.army.mil/cm\\_apex/f?p=136:4:0](http://corpsmapu.usace.army.mil/cm_apex/f?p=136:4:0) and completing the survey on-line. We value your comments and appreciate your taking the time to complete a survey each time you interact with our office.

Sincerely,

  
SOS | Kevin P. Landers Sr.  
Colonel, U.S. Army  
District Commander

Enclosures

Copy Furnished (with enclosures):

Chief, Source Data Unit  
NOAA/National Ocean Service  
Attn: Sharon Tear N/CS261  
1315 East-West Hwy., Rm 7316  
Silver Spring, Maryland 20910-3282

Copies Furnished with special conditions and plans:

Mr. Pete Benjamin  
U.S. Fish and Wildlife Service  
Raleigh Ecological Service Field Office  
Post Office Box 33726  
Raleigh, North Carolina 27636-3726

Mr. Kenneth Riley, Ph.D.  
Habitat Conservation Division  
National Marine Fisheries Service Southeast Region  
101 Pivers Island Road  
Beaufort, North Carolina 28516

Mr. Todd Bowers  
Oceans, Wetlands and Streams Protection Branch  
Wetlands and Streams Regulatory Section  
U.S. Environmental Protection Agency – Region 4  
Sam Nunn Atlanta Federal Center  
61 Forsyth Street, SW  
Atlanta, Georgia 30303-8931

Mr. Doug Huggett  
Division Coastal Management  
N.C. Department of Environment  
And Natural Resources  
400Commerce Avenue  
Morehead City, North Carolina 28557

Dr. Pace Wilber  
Habitat Conservation Division – Atlantic Branch  
NOAA Fisheries Service  
219 Fort Johnston Road  
Charleston, South Carolina 29412

## DEPARTMENT OF THE ARMY PERMIT

Permittee: **NORTH CAROLINA DEPARTMENT OF TRANSPORTATION (NCDOT)**  
**ATTN: MR. PHILIP S. HARRIS, III, P.E., C.P.M.**

Permit No.: **SAW-2011-01243**

Issuing Office: **CESAW-RG-W**

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:** Improve road safety by constructing grade separation and an interchange at two existing on-grade intersections along a 1.1 mile section of highway impacting 11.47 acres of jurisdictional non-riparian wetlands.

**Project Location:** The project is located within the NC11/13 highway corridor north of Ahoskie, at North Carolina State Road 1130 (Modlin Road) and the interchange at Old NC 11/State Road 1213 (Old NC 11 Road) near the town of Ahoskie, Hertford County, North Carolina.

### Permit Conditions:

#### General Conditions:

1. The time limit for completing the work authorized ends on **December 31, 2022**. 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**

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).
  - 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.

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.



(PERMITTEE) NORTH CAROLINA DEPARTMENT OF TRANSPORTATION  
ATTN: PHILIP S. HARRIS III, P.E., C.P.M.

  
(DATE)

This permit becomes effective when the Federal official, designated to act for the Secretary of the Army, has signed below.

  
(DISTRICT COMMANDER) KEVIN P. LANDERS SR., COLONEL  
(DATE)

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.

(TRANSFeree)

(DATE)

**SPECIAL CONDITIONS**  
**ACTION ID. SAW-2011-01243**  
**NORTH CAROLINA DEPARTMENT OF TRANSPORTATION**  
**TIP No. R-5311A**

1. CONSTRUCTION PLANS: All work authorized by this permit must be performed in strict compliance with the attached plans dated September 30, 2016, which are a part of this permit (see Exhibit A). Any modification to these plans must be approved by the US Army Corps of Engineers (USACE) prior to implementation.
2. UNAUTHORIZED DREDGE OR FILL: 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.
3. MAINTAIN CIRCULATION AND FLOW 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 or wetlands.
4. DEVIATION FROM PERMITTED PLANS: 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, 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 fill activities connected with this project. In addition, 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, into, or out of waters or wetlands or to reduce the reach of waters or wetlands.

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5. BORROW AND WASTE: 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 to borrow material or to dispose of dredged, fill or waste material. The permittee shall provide the Corps of Engineers with appropriate maps indicating the locations of proposed borrow or waste sites as soon as such information is available. The permittee will coordinate with the Corps of Engineers before approving any borrow or waste sites that are within 400 feet of any stream or wetland. All jurisdictional wetland delineations on borrow and waste areas shall be verified by the Corps of Engineers and shown on the approved reclamation plans. The permittee shall ensure that all such areas comply with Special Condition 4 of this permit and shall require and maintain documentation of the location and characteristics of all borrow and disposal sites associated with this project. This documentation will include data regarding soils, vegetation and hydrology sufficient to clearly demonstrate compliance with Special Condition 4. All information will be available to the Corps of Engineers upon request. The permittee shall require its contractors to complete and execute reclamation plans for each waste and borrow site and provide written documentation that the reclamation plans have been implemented and all work is completed. This documentation will be provided to the Corps of Engineers within 30 days of the completion of the reclamation work.

6. PRECONSTRUCTION MEETING: The permittee shall schedule and attend a preconstruction meeting between its representatives, the contractors representatives, and the Corps of Engineers, Washington 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 within this Department of Army Permit. The permittee shall provide the USACE, Washington 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

**SPECIAL CONDITIONS**  
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shall provide 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 schedules and participate in the required meeting.

**7. SEDIMENTATION/EROSION CONTROL PLAN:**

- a.) 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-erodible materials. Grubbing of riparian vegetation will not occur until immediately before construction begins on a given segment of stream channel.
- b.) 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.
- c.) The permittee shall remove all sediment and erosion control measures placed in wetlands or waters, and shall restore natural grades on those areas, prior to project completion.
- d.) The permittee shall use appropriate sediment and erosion control practices which equal or exceed those outlined in the most recent version of the “North Carolina Sediment and Erosion Control Planning and Design Manual” to assure compliance with the appropriate turbidity water quality standard. 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 assure compliance with the appropriate turbidity water quality standards. 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). Adequate sedimentation and erosion control measures must be implemented prior to any ground disturbing activities to minimize impacts to downstream aquatic resources. These measures must be inspected and maintained regularly, especially following rainfall events. All fill material must be adequately stabilized at the earliest practicable date to prevent sediment from entering into adjacent waters or wetlands.

**SPECIAL CONDITIONS**  
**ACTION ID. SAW-2011-01243**  
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**TIP No. R-5311A**

8. WATER CONTAMINATION: 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 Resources at (919) 707-8787 or (800) 858-0368 and provisions of the North Carolina Oil Pollution and Hazardous Substances Control Act will be followed.

9. NOTIFICATION OF CONSTRUCTION COMMENCEMENT AND COMPLETION: 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.

a.) Prior to construction within any jurisdictional areas, the permittee must correctly install silt fencing (with or without safety fencing) parallel with the construction corridor, on both sides of the jurisdictional crossing. This barrier is to serve both as an erosion control measure and a visual identifier of the limits of construction within any jurisdictional area. The permittee must maintain the fencing, at minimum, until the wetlands have re-vegetated and stabilized.

10. CLEAN FILL: 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. Soils used for fill shall not be contaminated with any toxic substance in concentrations governed by Section 307 of the Clean Water Act.

11. 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, shall be available at the project site during construction and maintenance of this project.

**SPECIAL CONDITIONS**  
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**TIP No. R-5311A**

12. SILT-FENCING: 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).

13. 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.

14. EROSION CONTROL MEASURES IN WETLANDS: 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. For fences serving as a visual identifier of the limits of construction within any jurisdictional area, see Special Condition 9.a for removal timelines.

15. TEMPORARY DISCHARGES: Temporary discharge of excavated or fill material into wetlands and waters of the United States will be for the absolute minimum period of time necessary to accomplish the work. All authorized temporary wetland, stream, and tributary impacts will be returned to pre-disturbance grade and contour, and re-vegetated.

16. REPORTING ADDRESS: All reports, documentation and correspondence required by the conditions of this permit shall be submitted to the following address: U.S. Army Corps of Engineers, Regulatory Division, Washington Regulatory Field Office, c/o Mr. Thomas Steffens 2407 West 5th Street, Washington , North Carolina 27889, and by telephone at: 910-251-4615. The Permittee shall reference the following permit number, SAW-2011-01243 on all submittals.

**SPECIAL CONDITIONS**  
**ACTION ID. SAW-2011-01243**  
**NORTH CAROLINA DEPARTMENT OF TRANSPORTATION**  
**TIP No. R-5311A**

17. REPORTING VIOLATIONS OF THE CLEAN WATER ACT: Violation of these conditions or violation of Section 404 of the Clean Water Act must be reported in writing to the Wilmington District U.S. Army Corps of Engineers within 24 hours of the discovery of the violation.
18. COMPLIANCE INSPECTION: A representative of the Corps of Engineers will periodically and randomly inspect the work for compliance with these conditions. Deviations from these procedures may result in an administrative financial penalty and/or directive to cease work until the problem is resolved to the satisfaction of the Corps.
19. COMPENSATORY MITIGATION: North Carolina Division of Mitigation Services (DMS) In-Lieu Fee program: 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 (see Exhibit B). The requirements of this form, including any special conditions listed on this form, are hereby incorporated as special conditions of this permit authorization.
20. CONCRETE CONDITION: The permittee shall take measures 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).
21. NORTHERN LONG-EARED BAT: The U.S. Fish and Wildlife Service's (USFWS's) Programmatic Biological Opinion (BO) titled "Northern Long-eared Bat (NLEB) Programmatic Biological Opinion for North Carolina Department of Transportation (NCDOT) Activities in Eastern North Carolina (Divisions 1-8)," dated March 25, 2015, and adopted on April 10, 2015, contains mandatory terms and conditions to implement the reasonable and prudent measures that are associated with "incidental take" that are specified in the BO. As such, this permit verification contains a special condition requiring compliance with all the mandatory terms and conditions

**SPECIAL CONDITIONS**  
**ACTION ID. SAW-2011-01243**  
**NORTH CAROLINA DEPARTMENT OF TRANSPORTATION**  
**TIP No. R-5311A**

(incorporated by reference into this permit verification) associated with incidental take of the BO. Reasonable and prudent measures are actions necessary to minimize the impacts of incidental take that is anticipated to result from implementing the project that the Service regarded as not likely to jeopardize the species or adversely modify designated critical habitat.

22. ADDITIONAL ENDANGERED/THREATENED SPECIES: All necessary precautions and measures will be implemented so that any activity will not kill, injure, capture, harass, or otherwise harm any protected federally listed species. While accomplishing the authorized work, if the permittee discovers or observes a damaged or hurt listed endangered or threatened species, the USACE Wilmington District Engineer will be immediately notified to initiate the required Federal coordination.

23. WATER QUALITY: The NCDWR has issued a conditioned Water Quality Certification for this project. The conditions of that certification are hereby incorporated as special conditions of this permit. A copy of this certification is attached (see Exhibit C).

24. HISTORIC AND CULTURAL RESOURCES: If the permittee discovers any previously unknown historic or archaeological sites while accomplishing the authorized work, he shall immediately stop work and notify the USACE, Washington Regulatory Field Office NCDOT Regulatory Project Manager (Division 1), who will initiate the required State/Federal coordination.

25. RELATED LAWS: This Department of the Army permit does not obviate the need to obtain other Federal, State, or local authorizations required by law.

Failure to institute and carry out the details of special conditions 1-25, may result in a directive to cease all ongoing and permitted work within waters and/or wetlands associated with TIP No. R-5311A, or such other remedy as the District Engineer or his authorized representatives may seek.



ROY COOPER  
*Governor*

MICHAEL S. REGAN  
*Secretary*

S. JAY ZIMMERMAN  
*Director*

March 24, 2017

Mr. Philip S. Harris, III, P.E., CPM  
Natural Environment Section Head  
Project Development and Environmental Analysis  
North Carolina Department of Transportation  
1598 Mail Service Center  
Raleigh, North Carolina, 27699-1598

Subject: 401 Water Quality Certification Pursuant to Section 401 of the Federal Clean Water Act with  
ADDITIONAL CONDITIONS for Proposed improvements along NC 11 from west of SR 1130 (Modlin  
Road) to east of NC 11/SR 1213 (Old NC 11 Road) in Hertford County, TIP R-5311A.  
NCDWR Project No. 20161221

Dear Mr. Harris:

Attached hereto is a copy of Certification No. 004109 issued to The North Carolina Department of Transportation (NCDOT) dated March 23, 2017.

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

Sincerely,

A handwritten signature in blue ink that reads "S. Jay Zimmerman".

S. Jay Zimmerman, Director  
Division of Water Resources

#### Attachments

#### Electronic copy only distribution:

Bill Biddlecome, US Army Corps of Engineers, Washington Field Office  
Clay Willis, Division 1 Environmental Officer  
Rodger Rochelle, NC Department of Transportation  
Chris Rivenbark, NC Department of Transportation  
Dr. Cynthia Van Der Wiele, US Environmental Protection Agency  
Gary Jordan, US Fish and Wildlife Service  
Travis Wilson, NC Wildlife Resources Commission  
Cathy Brittingham, NC Division of Coastal Management  
Greg Daisey, NC Division of Coastal Management  
Beth Harmon, Division of Mitigation Services  
Garcy Ward, NC Division of Water Resources Washington Regional Office  
File Copy

The logo for the State of North Carolina's Environmental Quality Branch. It features the words "Nothing Compares" in a blue, sans-serif font, with a stylized graphic of three wavy lines above and below the text.

State of North Carolina | Environmental Quality  
1617 Mail Service Center | Raleigh, North Carolina 27699-1617

**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 12.64 acres of jurisdictional wetlands, in Hertford County. The project shall be constructed pursuant to the application dated received December 9, 2016. The authorized impacts are as described below:

**Wetland Impacts (non-riverine) in the Chowan River Basin**

Site	Fill (ac)	Fill (temporary) (ac)	Excavation (ac)	Mechanized Clearing (ac)	Hand Clearing (ac)	Total Wetland Impact (ac)	Wetland Impacts Requiring Mitigation (ac)
1	0.74	--	0.15	0.03	0.11	1.03	0.92
1 utilities	<0.01	--	--	--	0.086*	0.086	--
2	0.45	--	0.08	0.09	0.01	0.63	0.62
2 utilities	<0.01	--	--	--	0.264*	0.264	--
3	--	--	--	--	0.02	0.02	--
3 utilities	<0.01	--	--	--	0.011*	0.011	--
4	3.84	--	0.17	0.28	0.18	4.47	4.29
4 utilities	<0.01	--	--	--	0.296*	0.296	--
5	0.77	--	0.13	0.02	0.08	1.00	0.92
6	0.61	--	0.33	0.13	0.02	1.09	1.07
7	2.44	--	0.03	0.29	0.03	2.79	2.76
8	0.17	--	0.12	0.04	0.05	0.38	0.33
9	0.25	--	0.16	0.15	0.01	0.57	0.56
<b>Total</b>	<b>9.27</b>	<b>--</b>	<b>1.17</b>	<b>1.03</b>	<b>1.167</b>	<b>12.64</b>	<b>11.47</b>

**Total Wetland Impact for Project: 12.64 acres.**

**\* Utility hand clearing impacts for maintained utility easement**

The application provides adequate assurance that the discharge of fill material into wetlands in the Chowan 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 December 9, 2016. 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 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:**

1. Compensatory mitigation for impacts to 11.47 acres of non-riverine wetlands is required. We understand that you have chosen to perform compensatory mitigation for impacts to wetlands through the North Carolina Division of Mitigation Services (DMS) (formerly NCEEP), and that the DMS has agreed to implement the mitigation for the project. DMS has indicated in a letter dated October 14, 2016 that they will assume responsibility for satisfying the federal Clean Water Act compensatory mitigation requirements for the above-referenced project, in accordance with DMS's Mitigation Banking Instrument signed July 28, 2010.
2. 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.
3. NCDOT shall be in compliance with the NCS00250 issued to the NCDOT, including the applicable requirements of the NCG01000.
4. The Permittee shall ensure that the final design drawings adhere to the permit and to the permit drawings submitted for approval. [15A NCAC 02H .0507 (c) and 15A NCAC 02H .0506 (b)(2) and (c)(2)]
5. 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. [15A NCAC 02H.0501 and .0502]
6. 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. [15A NCAC 02H.0506(b)(2)]
7. All fill slopes located in jurisdictional wetlands shall be placed at slopes no flatter than 3:1, unless otherwise authorized by this certification. [15A NCAC 02H.0506(b)(2)]
8. Sediment and erosion control measures shall not be placed in wetlands or waters unless otherwise approved by this Certification. [15A NCAC 02H.0506(b)(3) and (c)(3)]
9. 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 [15A NCAC 02H.0506(b)(3) and (c)(3)]:
  - 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.

10. Erosion control matting in riparian areas shall not contain a nylon mesh grid which can impinge and entrap small animals. Matting should be secured in place by staples, stakes, or wherever possible live stakes of native trees. Riparian areas are defined as a distance 25 feet from top of stream bank. [15A NCAC 02B.0224, .0225]

11. 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. [15A NCAC 02H.0506(b)(2)(3)]

12. 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. [15A NCAC 02H.0506(b)(3)]

13. 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. [15A NCAC 02B.0506(b)(2)]

14. Discharging hydroseed mixtures and washing out hydroseeders and other equipment in or adjacent to surface waters is prohibited. [15A NCAC 02H.0506(b)(3)]

15. 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 the NCDWR 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, the NCDWR may reevaluate and modify this certification. [15A NCAC 02B.0200]

16. The Permittee shall report any violations of this certification to the Division of Water Resources within 24 hours of discovery. [15A NCAC 02B.0506(b)(2)]

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 the NCDWR when all work included in the 401 Certification has been completed. [15A NCAC 02H.0502(f)]

18. 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. [15A NCAC 02H .0507(c) and 15A NCAC 02H .0506 (b)(2) and (c)(2)]

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:

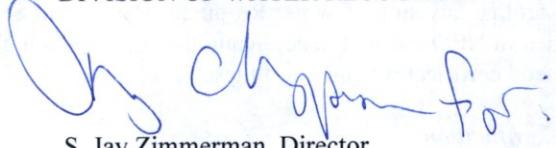
Office of Administrative Hearings  
6714 Mail Service Center  
Raleigh, NC 27699-6714  
Telephone: (919) 431-3000, Facsimile: (919) 431-3100

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

Mr. Sam M. Hayes, General Counsel  
Department of Environmental Quality  
1601 Mail Service Center

This the 24rd day of March 2017

DIVISION OF WATER RESOURCES



S. Jay Zimmerman, Director

WQC No. 004109



Environmental  
Quality

ROY COOPER  
*Governor*

MICHAEL S. REGAN  
*Secretary*

S. JAY ZIMMERMAN  
*Director*

NCDWR Project No.: \_\_\_\_\_

County: \_\_\_\_\_

Applicant: \_\_\_\_\_

Project Name: \_\_\_\_\_

Date of Issuance of 401 Water Quality Certification: \_\_\_\_\_

**Certificate of Completion**

Upon completion of all work approved within the 401 Water Quality Certification or applicable Buffer Rules, and any subsequent modifications, the applicant is required to return this certificate to the 401 Transportation Permitting Unit, North Carolina Division of Water Resources, 1617 Mail Service Center, Raleigh, NC, 27699-1617. This form may be returned to NCDWR by the applicant, the applicant's authorized agent, or the project engineer. It is not necessary to send certificates from all of these.

***Applicant's Certification***

I, \_\_\_\_\_, hereby state that, to the best of my abilities, due care and diligence was used in the observation of the construction such that the construction was observed to be built within substantial compliance and intent of the 401 Water Quality Certification and Buffer Rules, the approved plans and specifications, and other supporting materials.

Signature: \_\_\_\_\_ Date: \_\_\_\_\_

***Agent's Certification***

I, \_\_\_\_\_, hereby state that, to the best of my abilities, due care and diligence was used in the observation of the construction such that the construction was observed to be built within substantial compliance and intent of the 401 Water Quality Certification and Buffer Rules, the approved plans and specifications, and other supporting materials.

Signature: \_\_\_\_\_ Date: \_\_\_\_\_

***Engineer's Certification***

Partial  Final

I, \_\_\_\_\_, as a duly registered Professional Engineer in the State of North Carolina, having been authorized to observe (periodically, weekly, full time) the construction of the project, for the Permittee hereby state that, to the best of my abilities, due care and diligence was used in the observation of the construction such that the construction was observed to be built within substantial compliance and intent of the 401 Water Quality Certification and Buffer Rules, the approved plans and specifications, and other supporting materials.

Signature \_\_\_\_\_ Registration No. \_\_\_\_\_ Date \_\_\_\_\_



State of North Carolina | Environmental Quality  
1617 Mail Service Center | Raleigh, North Carolina 27699-1617



ROY COOPER  
*Governor*

MICHAEL S. REGAN  
*Secretary*

BRAXTON C. DAVIS  
*Director*

March 27, 2017

Mr. Philip S. Harris III  
Natural Environment Section Head  
N.C. Department of Transportation  
1598 Mail Service Center  
Raleigh, NC 27699-1598

**SUBJECT: CD17-005** Consistency Concurrence Regarding the proposed improvements along NC 11 from west of SR 1130 (Modlin Road) to east of NC 11/SR 1213 (Old NC 11 Road), TIP No. R-5311A, Hertford County, North Carolina (DCM#20170007).

Dear Mr. Harris:

The N.C. Division of Coastal Management (DCM) received the N.C. Department of Transportation (NCDOT) consistency submission on December 9, 2016 concerning the improvements along NC 11 from west of SR 1130 (Modlin Road) to east of NC 11/SR 1213 (Old NC 11 Road), TIP No. R-5311A, Hertford County, North Carolina.

North Carolina's coastal zone management program consists of, but is not limited to, the Coastal Area Management Act, the State's Dredge and Fill Law, Chapter 7 of Title 15A of North Carolina's Administrative Code, and the land use plan of the County and/or local municipality in which the proposed project is located. It is the objective of DCM to manage the State's coastal resources to ensure that proposed Federal activities would be compatible with safeguarding and perpetuating the biological, social, economic, and aesthetic values of the State's coastal waters.

DCM has reviewed the submitted information pursuant to the management objectives and enforceable policies of Subchapters 7H and 7M of Chapter 7 in Title 15A of the North Carolina Administrative Code and concurs that the proposed project by the NCDOT is consistent, to the maximum extent practicable, with North Carolina's certified coastal management program.

Prior to the initiation of the activities described, NCDOT should obtain any required State approvals or authorizations. Should the proposed action be modified, a revised consistency determination could be necessary. This might take the form of either a supplemental consistency determination pursuant to 15 CFR 930.46, or a new consistency determination pursuant to 15 CFR 930.36. Likewise, if further project assessments reveal environmental effects not previously considered by the proposed development, a supplemental consistency certification may be required.

If you have any questions, please contact DCM Transportation Project Coordinator Cathy Brittingham via e-mail at [cathy.brittingham@ncdenr.gov](mailto:cathy.brittingham@ncdenr.gov) or by phone at 919-707-9149. Thank you for your consideration of the North Carolina Coastal Management Program.

Sincerely,

*Douglas V Huggett*

Doug Huggett  
Major Permits Coordinator

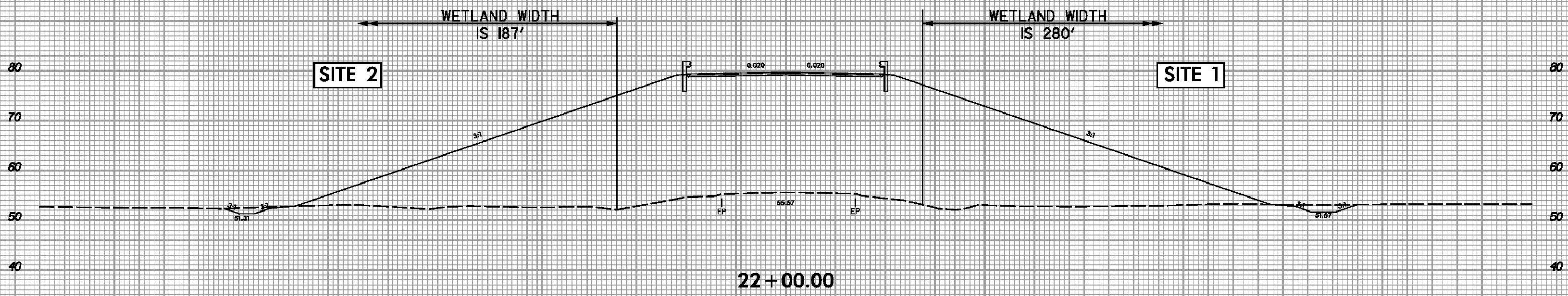
CC: Cathy Brittingham, DCM  
Daniel Govoni, DCM  
Greg Daisey, DCM  
Chris Rivenbark, NCDOT  
Bill Biddlecome, USACE  
Garcy Ward, DWR



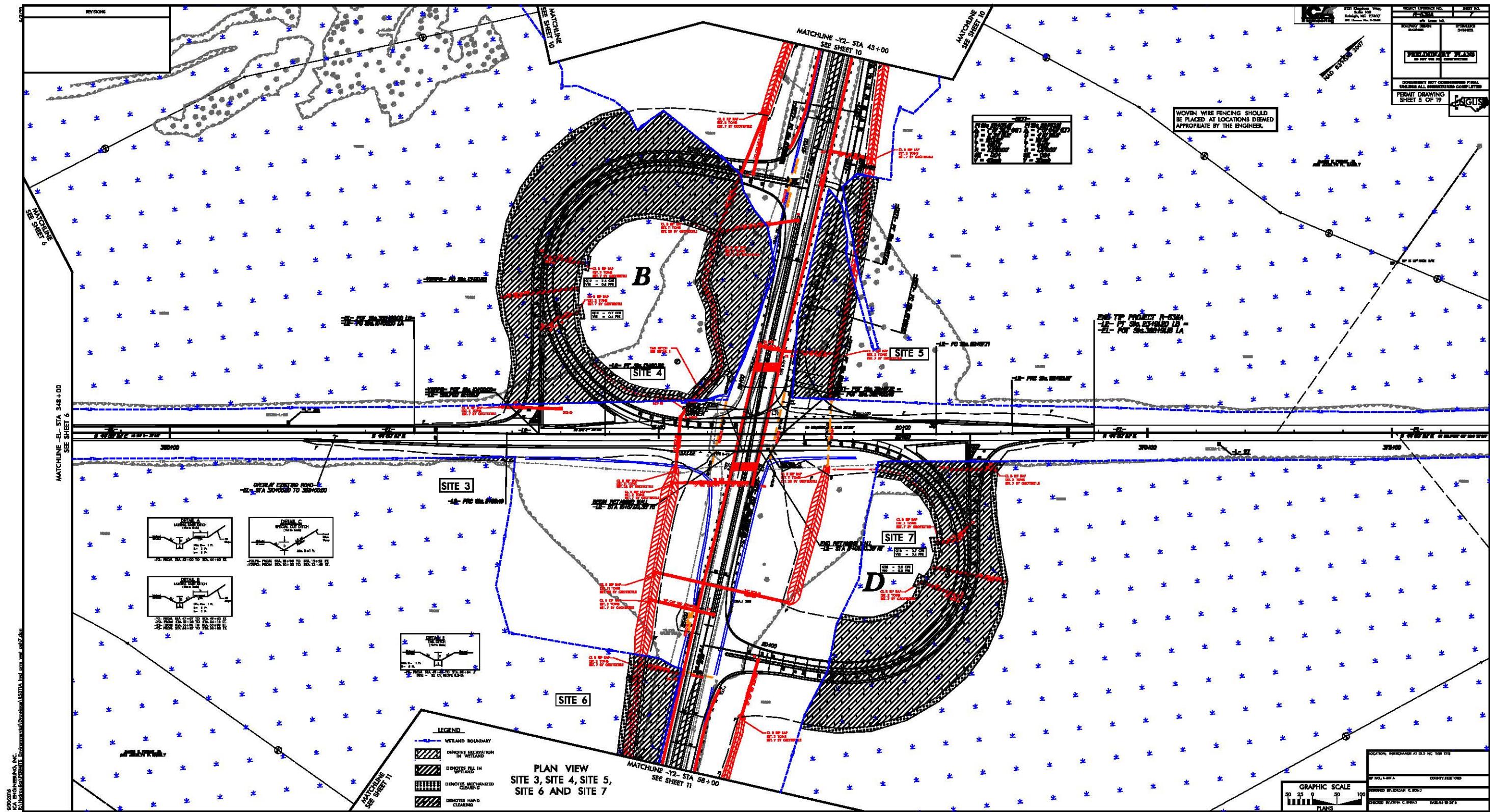


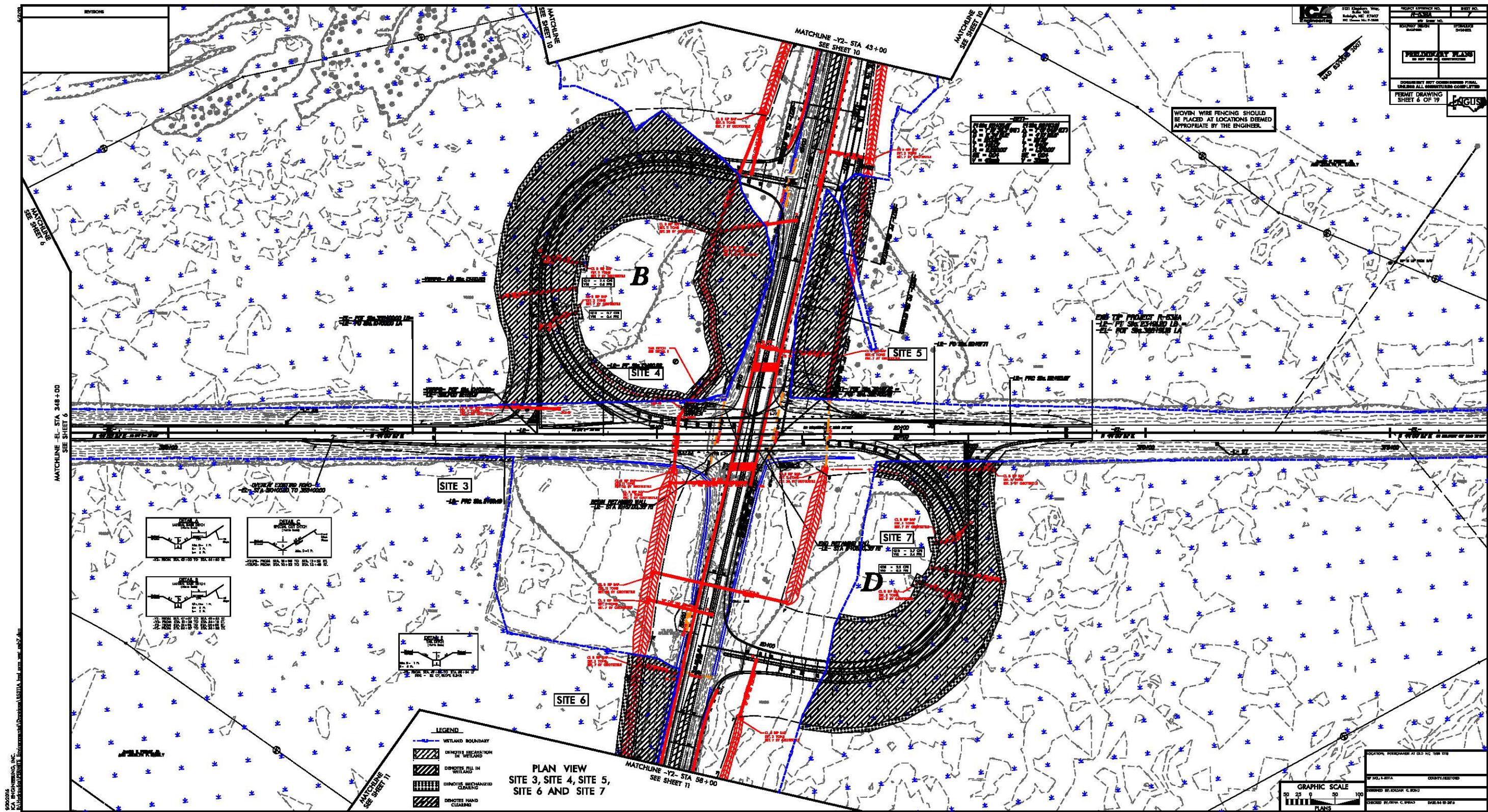


150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

PERMIT DRAWING  
SHEET 4 OF 19

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150





**PERMIT DRAWING  
SHEET 7 OF 19**



WETLAND WIDTH  
IS 1360' +

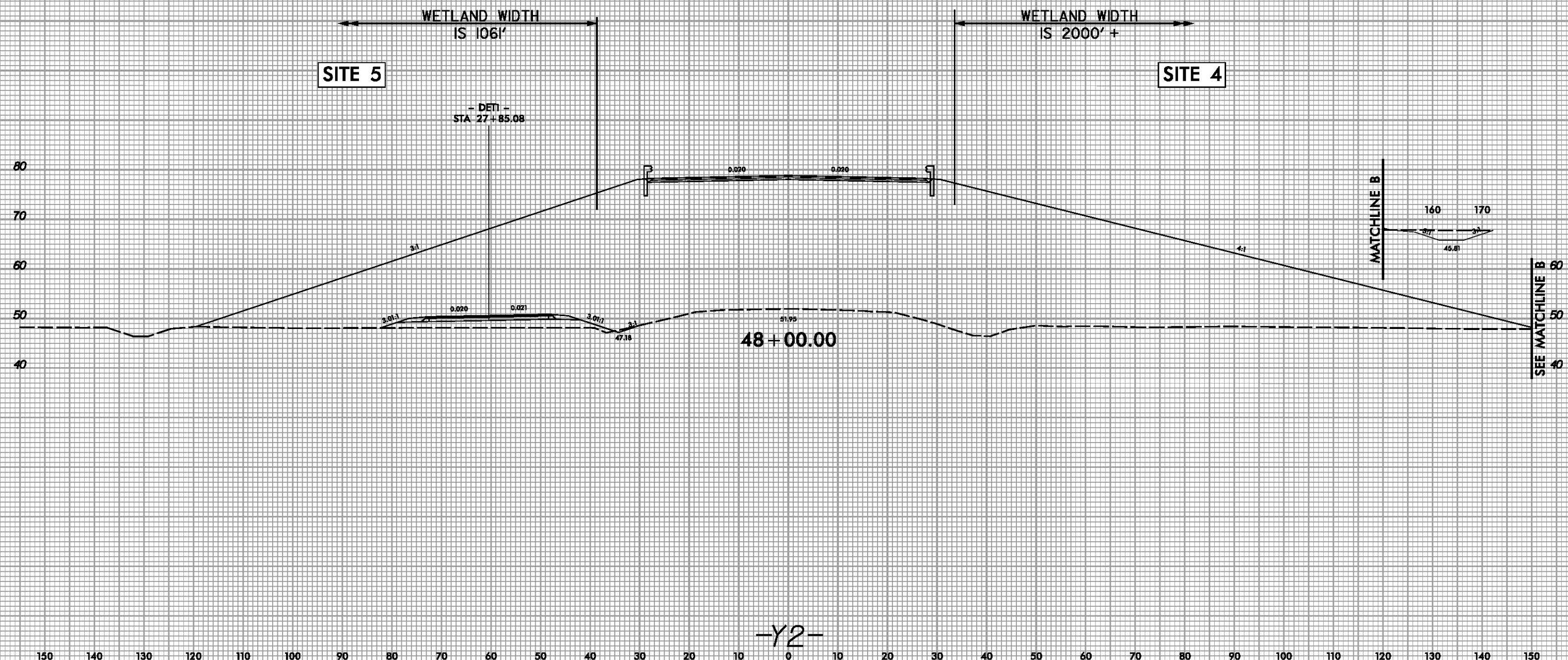
WETLAND WIDTH  
IS 1036'

## SITE 3

11+00

-12-

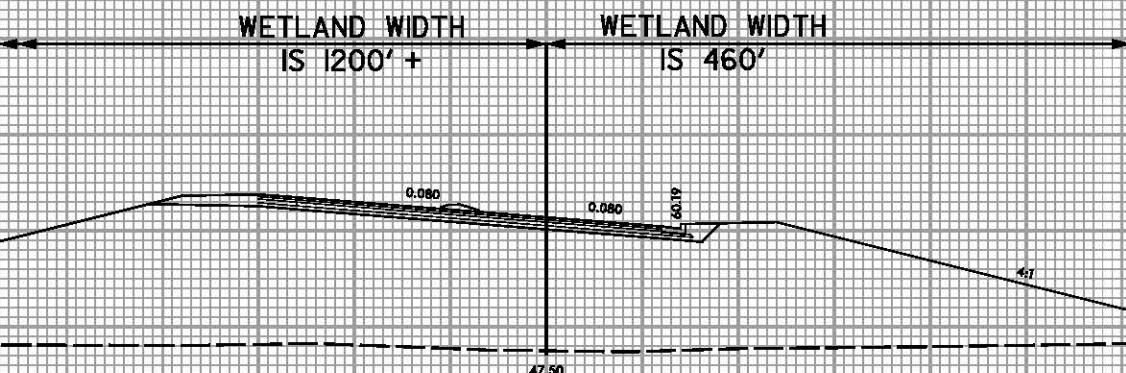
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PERMIT DRAWING  
SHEET 8 OF 19

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

PERMIT DRAWING  
SHEET 9 OF 19

SITE 4



150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

-Y2LPB-

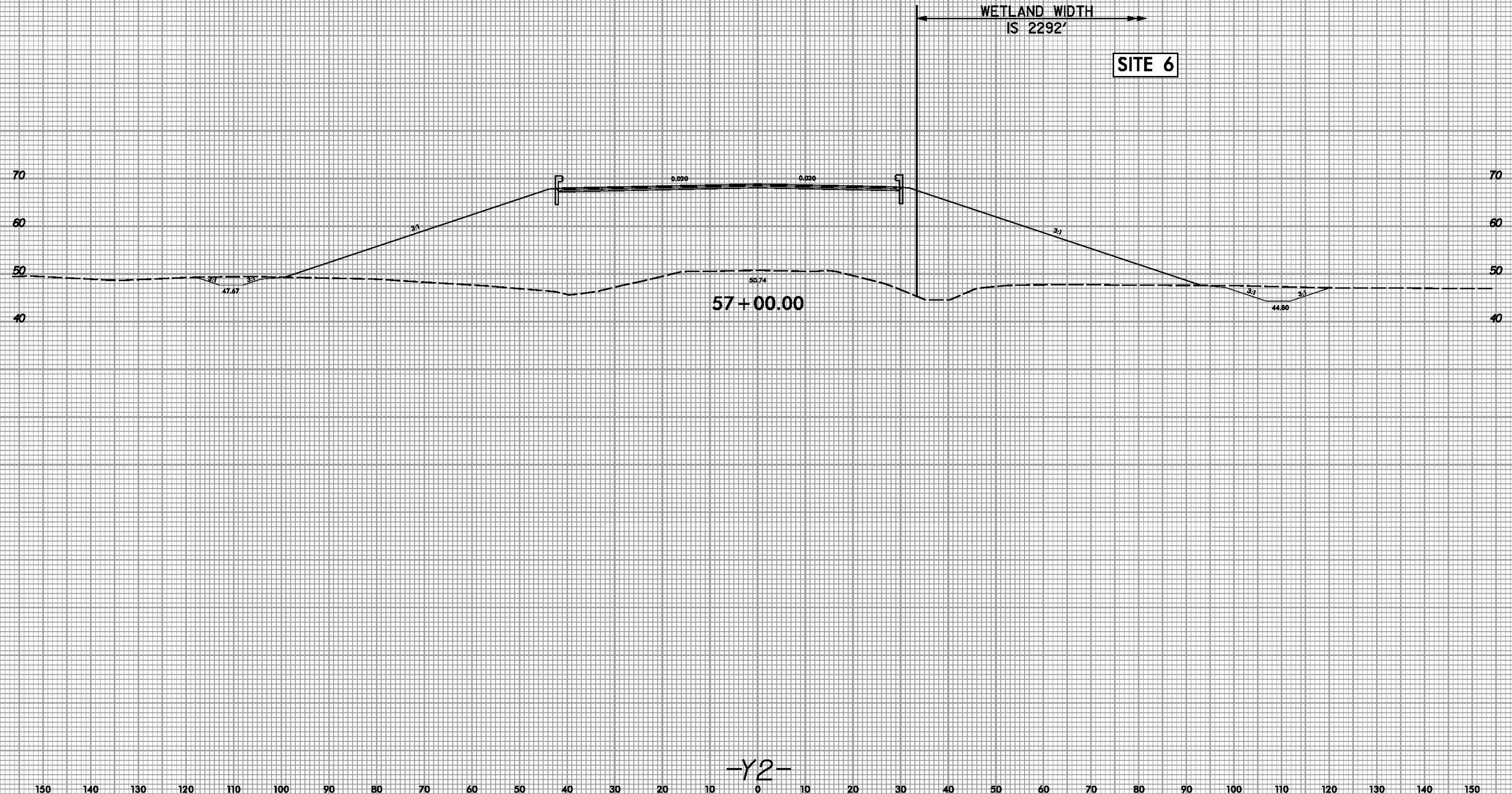
PERMIT DRAWING  
SHEET 10 OF 19



## **WETLAND WIDTH IS 2292'**

## SITE 6

57+00.00



150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

PERMIT DRAWING  
SHEET 11 OF 19WETLAND WIDTH  
IS 2350'WETLAND WIDTH  
IS 211'

70

60

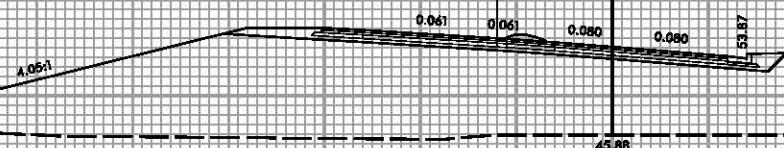
50

70

60

50

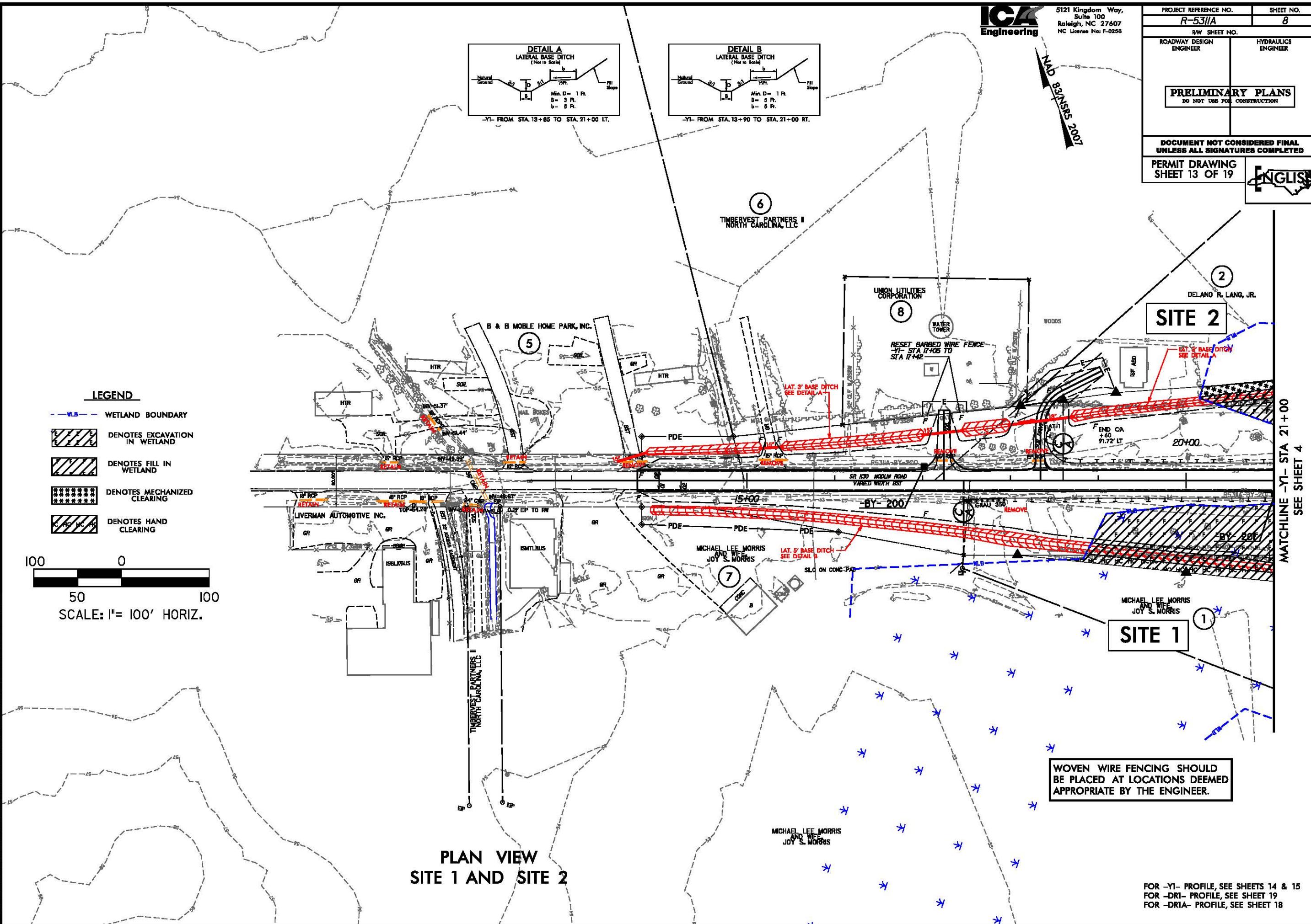
SITE 7

-Y2RPD -  
STA 12 + 90.15

15 + 00.00

-Y2LPD-





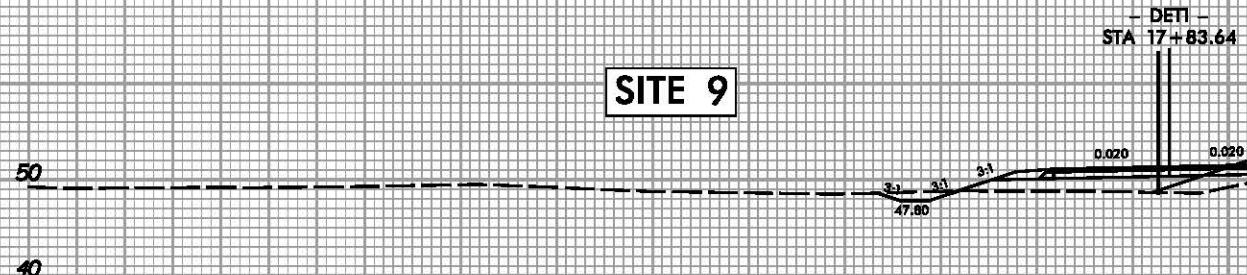




150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

PERMIT DRAWING  
SHEET 16 OF 19WETLAND WIDTH  
IS 1000' +

SITE 9



SITE 8

WETLAND WIDTH  
IS 1000' +

38+00.00

-Y2-

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150





WETLAND PERMIT IMPACT SUMMARY												
Site No.	Station (From/To)	Structure Size / Type	WETLAND IMPACTS					SURFACE WATER IMPACTS				
			Permanent Fill In Wetlands (ac)	Temp. Fill In Wetlands (ac)	Excavation in Wetlands (ac)	Mechanized Clearing in Wetlands (ac)	Hand Clearing in Wetlands (ac)	Permanent SW impacts (ac)	Temp. SW impacts (ac)	Existing Channel Impacts Permanent (ft)	Existing Channel Impacts Temp. (ft)	Natural Stream Design (ft)
1	-Y1- 24+35 RT TO -Y1- 18+57 RT	ROADWAY FILL & BASE DITCH	0.74		0.15	0.03	0.11					
2	-Y1- 20+15 TO 24+05 LT	ROADWAY FILL & BASE DITCH	0.45		0.08	0.09	< 0.01					
3	-L2- 10+26 TO 12+07 RT	ROADWAY FILL						0.02				
4	-L2- 11+77 TO 15+94 LT, -Y2RPB- 10+58 LT TO -Y2- 45+86 RT, -Y2- 44+94 TO 50+53 RT	ROADWAY FILL , BASE DITCH & SPECIAL CUT DITCH	3.84		0.17	0.28	0.18					
5	-Y2- 45+32 TO 50+08 LT	ROADWAY FILL & BASE DITCH	0.77		0.13	0.02	0.08					
6	-Y2- 55+87 TO 62+10 RT	ROADWAY FILL & BASE DITCH	0.61		0.33	0.13	0.02					
7	-Y2LPD- 10+00 TO 19+10	ROADWAY FILL & SPECIAL CUT DITCH	2.44		0.03	0.29	0.03					
8	-Y2- 36+33 TO 40+79 RT	ROADWAY FILL, BASE DITCH & 24" RCP	0.17		0.12	0.04	0.05					
9	-Y2- 33+39 TO 40+33 LT	ROADWAY FILL & BASE DITCH	0.25		0.16	0.15	< 0.01					
TOTALS*:			9.27		1.17	1.03	0.50					

\*Rounded totals are sum of actual impacts

NOTES:

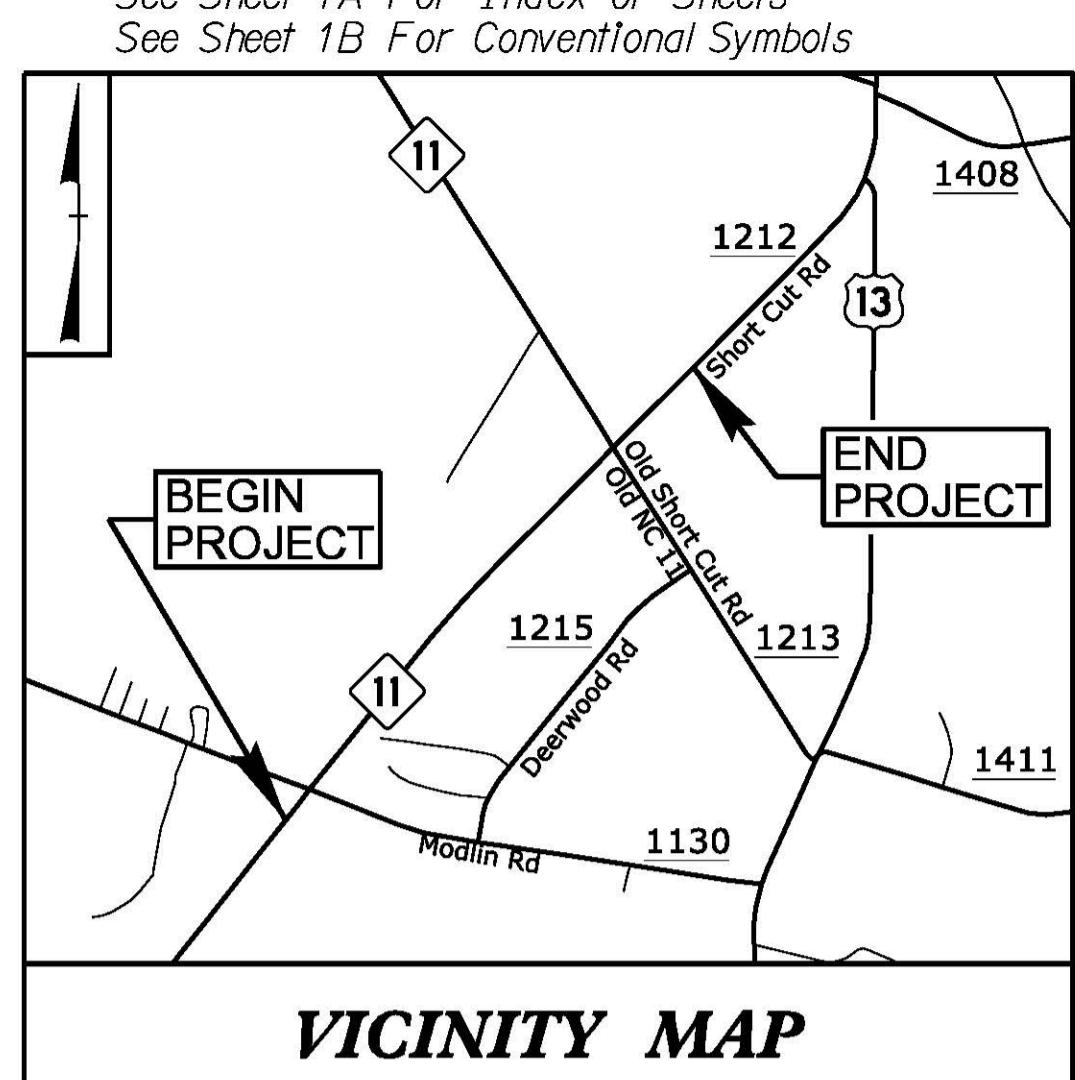
Revised 2013 10 24

NC DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS  
SEPT 28, 2016  
HERTFORD COUNTY  
R-5311A  
45449.1.2  
SHEET 19 OF 19

# TIP PROJECT: R-5311A

02-AUG-2016 15:15  
R-5311A-UT-UE-21.dgn  
See Sheet 1A For Index of Sheets  
See Sheet 1B For Conventional Symbols

CONTRACT:



75% PLANS

## STATE OF NORTH CAROLINA DIVISION OF HIGHWAYS

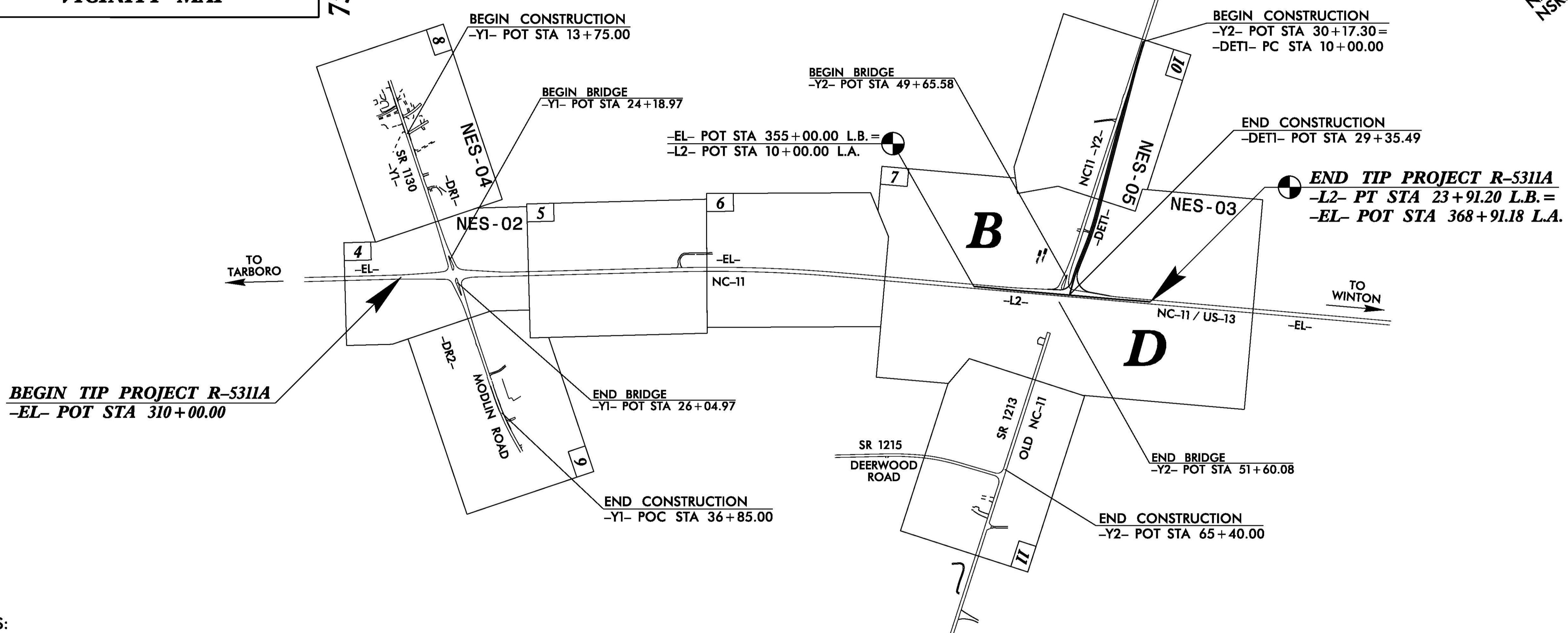
# NES PERMIT DRAWING PLANS

## HERTFORD COUNTY

LOCATION: WEST OF MODLIN ROAD TO EAST OF NC 11/SR 1213 (OLD NC 11 ROAD). CONSTRUCT GRADE SEPARATION AT SR 1130 (MODLIN ROAD) AND INTERCHANGE AT OLD NC 11/SR 1213 (OLD NC 11 ROAD).

NAD 83  
NSRS 2007

TYPE OF WORK: RELOCATION OF UTILITY LINES



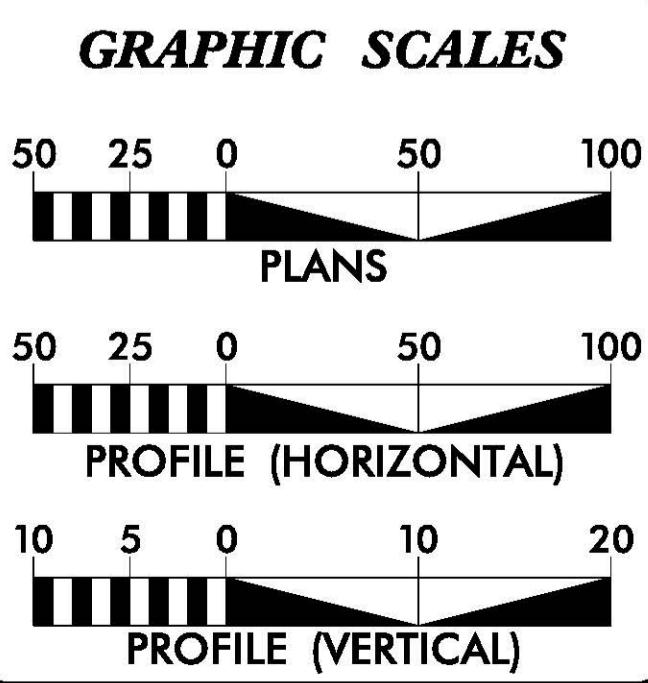
NOTES:

THIS IS A CONTROLLED ACCESS PROJECT  
WITH ACCESS BEING LIMITED TO INTERCHANGES.

CLEARING ON THIS PROJECT SHALL BE PERFORMED  
TO THE LIMITS ESTABLISHED BY METHOD III.

DOCUMENT NOT CONSIDERED FINAL  
UNLESS ALL SIGNATURES COMPLETED

INCOMPLETE PLANS  
DO NOT USE FOR R/W ACQUISITION



DESIGN DATA	
ADT (2017) =	7,500
ADT (2037) =	10,830
K =	10 %
D =	55 %
T =	26 % *
V =	60 MPH
* TTST = 22% DUAL 4%	
FUNC CLASS = ARTERIAL REGIONAL TIER	

PROJECT LENGTH	
LENGTH ROADWAY TIP PROJECT R-5311A =	1.116 MILES
TOTAL LENGTH TIP PROJECT R-5311A =	1.116 MILES

Prepared for the  
North Carolina Department  
of Transportation  
In the office of:

**ICA**  
Engineering

5121 Kingdom Way,  
Suite 100  
Raleigh, NC 27607  
NC License No. P-0288

2012 STANDARD SPECIFICATIONS

RIGHT OF WAY DATE:

JUNE 17, 2016

LETTING DATE:

JUNE 20, 2017

DENA C. SNEAD, PE  
PROJECT ENGINEER

JORDAN C. BOND  
PROJECT DESIGN ENGINEER

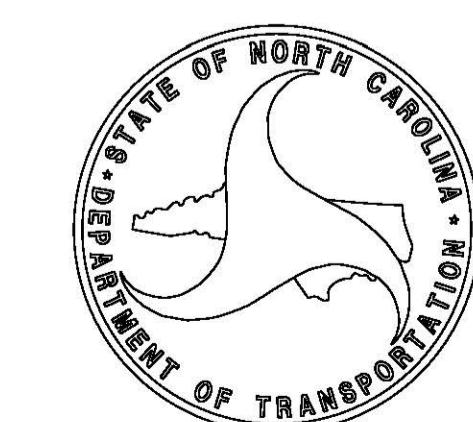
GARY LOVERING, PE  
ROADWAY DESIGN - PROJECT ENGINEER

HYDRAULICS ENGINEER

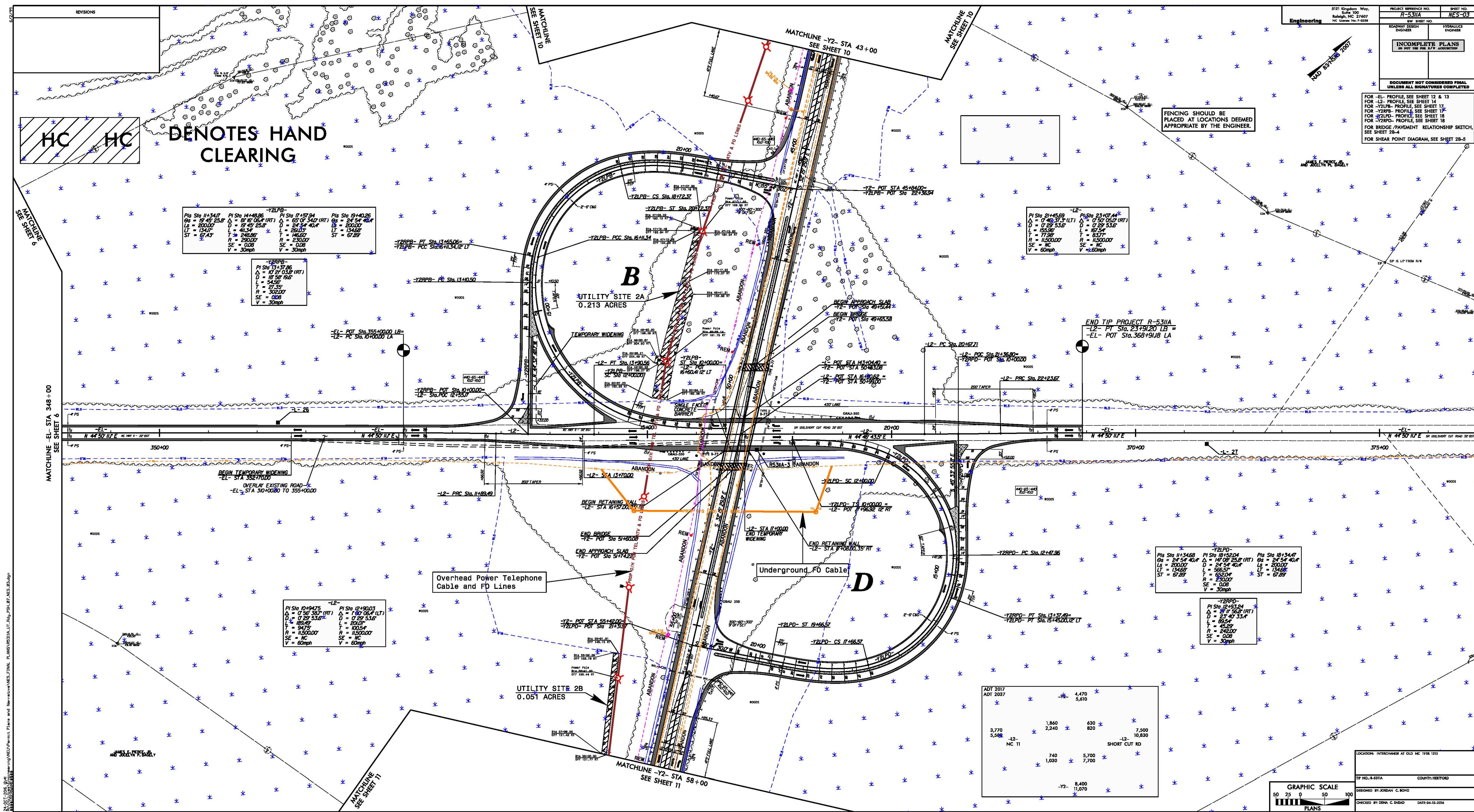
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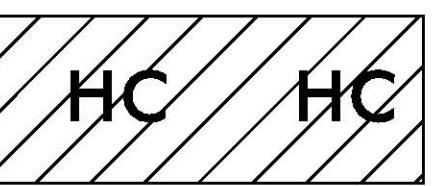
ROADWAY DESIGN  
ENGINEER

SIGNATURE: P.E.

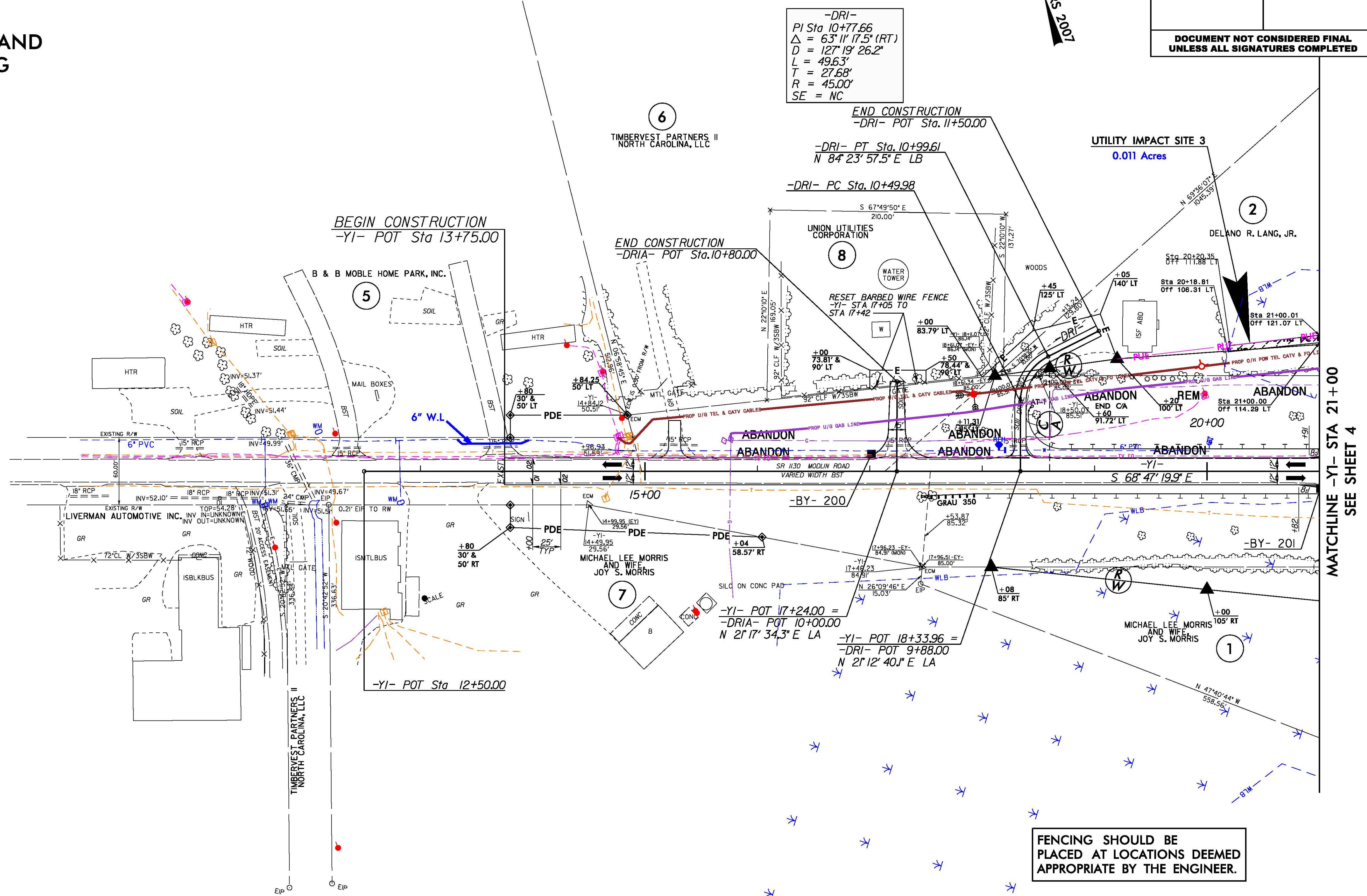




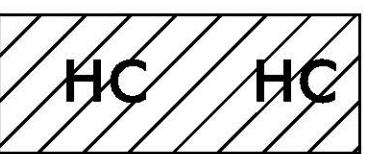




DENOTES HAND  
CLEARING



-DET1-  
 PI Sta II+38.30  
 $\Delta = 3^{\circ}12'49.4''$  (LT)  
 D = 1°09'43.9''  
 L = 276.52'  
 T = 138.30'  
 R = 4,930.00'  
 SE = 0.02  
 V = 45mph



DENOTES HAND  
CLEARING

FAITH HALL PAIGE HEIRS

WOODS

EXISTING R/W

15+00

DET1-

NC HWY II - 24' BST

EXISTING R/W

WOODS

FAITH HALL PAIGE HEIRS

STEPHANIE HOLLEY COTTON

Y2

WLB

ECM

EIP

### WETLAND PERMIT IMPACT SUMMARY

#### WETLAND IMPACTS

#### SURFACE WATER IMPACTS

Site No.	Station (From/To)	Structure Size / Type	Permanent Fill In Wetlands (ac)	Temp. Fill In Wetlands (ac)	Excavation in Wetlands (ac)	Mechanized Clearing in Wetlands (ac)	Hand Clearing in Wetlands (ac)	Permanent SW impacts (ac)	Temp. SW impacts (ac)	Existing Channel Impacts Permanent (ft)	Existing Channel Impacts Temp. (ft)	Natural Stream Design (ft)
1	-Y1- Sta 21+32.65	Power Pole	<0.01									
1	-Y1- Sta 23+91.80	Power Pole	<0.01									
1	-Y1- Sta 21+00.00 to Sta 24+19.02	Maintained Utility Easement					0.086					
2	-Y2- Sta 47+11.66	Power Pole	<0.01									
2	-Y2- Sta 49+88.14	Power Pole	<0.01									
2	-Y2- Sta 56+41.50	Power Pole	<0.01									
2A	-Y2- Sta 47+05.02 to Sta 50+67.20	Maintained Utility Easement					0.213					
2B	-Y2- Sta 55+91.91 to Sta. 58+00.00	Maintained Utility Easement					0.051					
3	-Y1- Sta 20+18.81 to Sta 21+00.01	Maintained Utility Easement					0.011					
4	-DET1- Sta 15+43.64 to Sta 16+63.11	Maintained Utility Easement					0.080					
4	-DET1- Sta 16+84.52 to Sta 20+47.71	Maintained Utility Easement					0.216					
4	-DET1- Sta 16+30.36	Power Pole	<0.01									
4	-DET1- Sta 17+70.14	Power Pole	<0.01									
4	-DET1- Sta 19+08.94	Power Pole	<0.01									
4	-DET1- Sta 19+82.84	Power Pole	<0.01									
<b>TOTALS*:</b>			<0.01				0.66					

\*Rounded totals are sum of actual impacts

NOTES: 6.25 sqft of permanent fill per power pole. 9 proposed poles located within wetland boundaries.

Total: 56.25 sqft = 0.001 ac.

<0.01

NC DEPARTMENT OF TRANSPORTATION

DIVISION OF HIGHWAYS

October 24, 2016

Hertford County

R-5311A

45449.1.2