



STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION

PAT MCCRORY
GOVERNOR

ANTHONY J. TATA
SECRETARY

January 24, 2013

U.S. Army Corps of Engineers
2407 West 5th St.
Washington, NC 27889

N.C. Division of Coastal Management
1367 US 17 South
Elizabeth City, NC 27909

Attention: Mr. Bill Biddlecome
NCDOT Coordinator

Attention: Mr. Paul Williams
NCDOT Coordinator

Dear Sirs:

Subject: **Application for Section 404 Nationwide Permits (NWP) 23, 33 & 12, Section 401 Water Quality Certification, and CAMA Major Development Permit** for the replacement of Bridge No. 51 over the Cashie River on US 13 in Bertie County; TIP Project B-5122; Federal Aid Project No. BRNHS-0013(24); Debit \$475 from WBS No. 42264.1.1.

Please find enclosed PCN, Division of Coastal Management Major Permit Forms 1, 2, and 5, EEP Acceptance Letter, permit drawings, stormwater management plan, utility drawings and roadway plans for the above referenced project proposed by the North Carolina Department of Transportation (NCDOT). A Categorical Exclusion (CE) was completed for this project on June 7, 2011 and distributed shortly thereafter. Additional copies are available upon request. The NCDOT proposes to replace existing Bridge No. 51 over the Cashie River on US 13 in Bertie County. The project involves replacement of the existing structurally deficient bridge and approach with new structures. Bridge 51 will be replaced with a new 188-foot long bridge, including two 12-foot lanes and 4.5-foot offsets. The approach roadway will be widened to a 24-foot pavement width to provide two 12-foot lanes, with eight-foot shoulders on each side.

Proposed permanent impacts to riparian wetlands from bridge construction are 0.67 acre of fill. Utility relocations will require less than 0.01 acre of fill in wetlands, less than 0.01 acre of excavation in wetlands. Traffic will be detoured off-site during construction.

This project calls for a letting date of June 18, 2013 and a review date of April 30, 2013; however, the let date may advance as additional funding becomes available.

MAILING ADDRESS:
NC DEPARTMENT OF TRANSPORTATION
PROJECT DEVELOPMENT & ENVIRONMENTAL ANALYSIS UNIT
1598 MAIL SERVICE CENTER
RALEIGH NC 27699-1548

TELEPHONE: 919-707-6000
FAX: 919-212-5785
WEBSITE: NCDOT.GOV

LOCATION:
CENTURY CENTER, BUILDING B
1020 BIRCH RIDGE DRIVE
RALEIGH NC 27610

Regulatory Approvals

Section 404 Permit: All aspects of this project are being processed by the Federal Highway Administration as a "Categorical Exclusion" in accordance with 23 CFR 771.115(b). The NCDOT requests that the project be authorized by NW 23 for bridge construction, A NW 33 for the temporary work bridge and NW 12 for utility relocations.

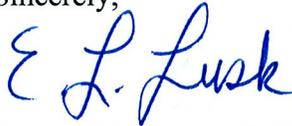
Section 401 Permit: We anticipate 401 General Certification numbers 3891, 3893 and 3884 will apply to this project. NCDOT is requesting written concurrence from the North Carolina Department of Environmental and Natural Resources, Division of Water Quality. We are providing two copies of this application to the NCDWQ for their approval.

CAMA Major Permit: NCDOT requests that the proposed work be authorized under a Coastal Area Management Act Major Permit. The landowner receipts will be forwarded as soon as they are available. Authorization to debit the \$475 Permit Application Fee from WBS Element 42264.1.1 is hereby given.

A copy of this permit application and its distribution list will be posted on the NCDOT website at <http://www.ncdot.org/doh/preconstruct/pe/neu/permit.html>.

If you have any questions or need additional information, please contact Chris Manley at cdmanley@ncdot.gov or (919) 707-6135.

Sincerely,



for

Gregory J. Thorpe, Ph.D., Manager
Project Development and Environmental Analysis Unit

cc

NCDOT Permit Application Standard Distribution List.



Office Use Only:
 Corps action ID no. _____
 DWQ project no. _____
 Form Version 1.3 Dec 10 2008

Pre-Construction Notification (PCN) Form

A. Applicant Information

1. Processing		
1a. Type(s) of approval sought from the Corps:	<input checked="" type="checkbox"/> Section 404 Permit <input type="checkbox"/> Section 10 Permit	
1b. Specify Nationwide Permit (NWP) number: 23 12 33 or General Permit (GP) number:		
1c. Has the NWP or GP number been verified by the Corps?		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
1d. Type(s) of approval sought from the DWQ (check all that apply):		
<input checked="" type="checkbox"/> 401 Water Quality Certification – Regular <input type="checkbox"/> Non-404 Jurisdictional General Permit <input type="checkbox"/> 401 Water Quality Certification – Express <input type="checkbox"/> Riparian Buffer Authorization		
1e. Is this notification solely for the record because written approval is not required?	For the record only for DWQ 401 Certification: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	For the record only for Corps Permit: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
1f. Is payment into a mitigation bank or in-lieu fee program proposed for mitigation of impacts? If so, attach the acceptance letter from mitigation bank or in-lieu fee program.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
1g. Is the project located in any of NC's twenty coastal counties. If yes, answer 1h below.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
1h. Is the project located within a NC DCM Area of Environmental Concern (AEC)?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	

2. Project Information

2a. Name of project:	Replacement of Bridge 51 over the Cashie River on US 13
2b. County:	Bertie
2c. Nearest municipality / town:	Windsor
2d. Subdivision name:	<i>not applicable</i>
2e. NCDOT only, T.I.P. or state project no.:	B-5122

3. Owner Information

3a. Name(s) on Recorded Deed:	North Carolina Department of Transportation
3b. Deed Book and Page No.	<i>not applicable</i>
3c. Responsible Party (for LLC if applicable):	<i>not applicable</i>
3d. Street address:	1598 Mail Service Center
3e. City, state, zip:	Raleigh, NC 27699-1598
3f. Telephone no.:	(919) 707-6135
3g. Fax no.:	(919) 250-4224
3h. Email address:	cdmanley@ncdot.gov

4. Applicant Information (if different from owner)	
4a. Applicant is:	<input type="checkbox"/> Agent <input type="checkbox"/> Other, specify:
4b. Name:	<i>not applicable</i>
4c. Business name (if applicable):	
4d. Street address:	
4e. City, state, zip:	
4f. Telephone no.:	
4g. Fax no.:	
4h. Email address:	
5. Agent/Consultant Information (if applicable)	
5a. Name:	<i>not applicable</i>
5b. Business name (if applicable):	
5c. Street address:	
5d. City, state, zip:	
5e. Telephone no.:	
5f. Fax no.:	
5g. Email address:	

B. Project Information and Prior Project History	
1. Property Identification	
1a. Property identification no. (tax PIN or parcel ID):	<i>not applicable</i>
1b. Site coordinates (in decimal degrees):	Latitude: 36.2452 (DD.DDDDDD) Longitude: - 76.95610 (-DD.DDDDDD)
1c. Property size:	3.8 acres
2. Surface Waters	
2a. Name of nearest body of water (stream, river, etc.) to proposed project:	Cashie River
2b. Water Quality Classification of nearest receiving water:	C; Sw
2c. River basin:	Roanoke
3. Project Description	
3a. Describe the existing conditions on the site and the general land use in the vicinity of the project at the time of this application: Existing conditions at the site include maintained / disturbed roadside shoulder and agriculture in addition to forested wetlands. Land use in the project vicinity is predominantly medium- to low-residential with some agriculture.	
3b. List the total estimated acreage of all existing wetlands on the property: 2.46	
3c. List the total estimated linear feet of all existing streams (intermittent and perennial) on the property: 215	
3d. Explain the purpose of the proposed project: To replace a structurally deficient and functionally obsolete bridge.	
3e. Describe the overall project in detail, including the type of equipment to be used: The project involves replacing a 154-foot bridge with a 188-foot on the existing alignment with an off-site detour. Standard road building equipment, such as trucks, dozers, and cranes will be used. Overhead phone line and multiuse poles will be relocated; gas line and 6" and 8" force sewer mains will be also be relocated within jurisdictional areas.	
4. Jurisdictional Determinations	
4a. Have jurisdictional wetland or stream determinations by the Corps or State been requested or obtained for this property / project (including all prior phases) in the past? Comments: SAW-2009-02266	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown
4b. If the Corps made the jurisdictional determination, what type of determination was made?	<input checked="" type="checkbox"/> Preliminary <input type="checkbox"/> Final
4c. If yes, who delineated the jurisdictional areas? Name (if known): Lance P. Fontaine	Agency/Consultant Company: NCDOT Other:
4d. If yes, list the dates of the Corps jurisdictional determinations or State determinations and attach documentation. December 10, 2009	
5. Project History	
5a. Have permits or certifications been requested or obtained for this project (including all prior phases) in the past?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Unknown
5b. If yes, explain in detail according to "help file" instructions.	
6. Future Project Plans	
6a. Is this a phased project?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
6b. If yes, explain.	

C. Proposed Impacts Inventory

1. Impacts Summary

1a. Which sections were completed below for your project (check all that apply):

- Wetlands Streams - tributaries Buffers
 Open Waters Pond Construction

2. Wetland Impacts

If there are wetland impacts proposed on the site, then complete this question for each wetland area impacted.

2a. Wetland impact number – Permanent (P) or Temporary (T)	2b. Type of impact	2c. Type of wetland (if known)	2d. Forested	2e. Type of jurisdiction (Corps - 404, 10 DWQ – non-404, other)	2f. Area of impact (acres)
Site 1ut <input checked="" type="checkbox"/> P <input type="checkbox"/> T	Excavation Fill	Riparian	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Corps <input type="checkbox"/> DWQ	<0.01 <0.01
Site 2ut <input checked="" type="checkbox"/> P <input type="checkbox"/> T	Fill	Riparian	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Corps <input type="checkbox"/> DWQ	<0.01
Site 3ut <input checked="" type="checkbox"/> P <input type="checkbox"/> T	Fill	Riparian	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Corps <input type="checkbox"/> DWQ	<0.01
Site 1 <input checked="" type="checkbox"/> P <input type="checkbox"/> T	Fill	Riparian	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Corps <input type="checkbox"/> DWQ	0.67
Site 2 <input type="checkbox"/> P <input type="checkbox"/> T			<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Corps <input type="checkbox"/> DWQ	
Site 3 <input type="checkbox"/> P <input type="checkbox"/> T			<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Corps <input type="checkbox"/> DWQ	
2g. Total wetland impacts					0.67 Permanent 0.00 Temporary

2h. Comments: Site 1ut captures impacts due to sewer line (utility) relocation, Sites 2ut and 3ut capture impacts due to multiuse pole (utility) relocation, Site 1 captures impacts associated with bridge construction. There will be 0.10 ac of hand clearing due to utility work and 0.33 ac of hand clearing due to project construction. Additionally, there will be 0.06 ac of temporary fill in wetlands in the hand clearing areas for erosion control measures.

3. Stream Impacts

If there are perennial or intermittent stream impacts (including temporary impacts) proposed on the site, then complete this question for all stream sites impacted.

3a. Stream impact number - Permanent (P) or Temporary (T)	3b. Type of impact	3c. Stream name	3d. Perennial (PER) or intermittent (INT)?	3e. Type of jurisdiction (Corps - 404, 10 DWQ – non-404, other)	3f. Average stream width (feet)	3g. Impact length (linear feet)
Site 1 <input type="checkbox"/> P <input type="checkbox"/> T			<input type="checkbox"/> PER <input type="checkbox"/> INT	<input type="checkbox"/> Corps <input type="checkbox"/> DWQ		
Site 2 <input type="checkbox"/> P <input type="checkbox"/> T			<input type="checkbox"/> PER <input type="checkbox"/> INT	<input type="checkbox"/> Corps <input type="checkbox"/> DWQ		
Site 3 <input type="checkbox"/> P <input type="checkbox"/> T			<input type="checkbox"/> PER <input type="checkbox"/> INT	<input type="checkbox"/> Corps <input type="checkbox"/> DWQ		
Site 4 <input type="checkbox"/> P <input type="checkbox"/> T			<input type="checkbox"/> PER <input type="checkbox"/> INT	<input type="checkbox"/> Corps <input type="checkbox"/> DWQ		
Site 5 <input type="checkbox"/> P <input type="checkbox"/> T			<input type="checkbox"/> PER <input type="checkbox"/> INT	<input type="checkbox"/> Corps <input type="checkbox"/> DWQ		
Site 6 <input type="checkbox"/> P <input type="checkbox"/> T			<input type="checkbox"/> PER <input type="checkbox"/> INT	<input type="checkbox"/> Corps <input type="checkbox"/> DWQ		
3h. Total stream and tributary impacts						Perm Temp

3i. Comments:								
4. Open Water Impacts								
If there are proposed impacts to lakes, ponds, estuaries, tributaries, sounds, the Atlantic Ocean, or any other open water of the U.S. then individually list all open water impacts below.								
4a. Open water impact number – Permanent (P) or Temporary (T)	4b. Name of waterbody (if applicable)	4c. Type of impact			4d. Waterbody type	4e. Area of impact (acres)		
O1 <input type="checkbox"/> P <input type="checkbox"/> T								
O2 <input type="checkbox"/> P <input type="checkbox"/> T								
O3 <input type="checkbox"/> P <input type="checkbox"/> T								
O4 <input type="checkbox"/> P <input type="checkbox"/> T								
4f. Total open water impacts						0.0 Permanent 0.0 Temporary		
4g. Comments: Impacts due to permanent bents are < 0.01 ac. Temporary bent impacts are dependant on spacing and have not been determined.								
5. Pond or Lake Construction								
If pond or lake construction proposed, then complete the chart below.								
5a. Pond ID number	5b. Proposed use or purpose of pond	5c. Wetland Impacts (acres)			5d. Stream Impacts (feet)			5e. Upland (acres)
		Flooded	Filled	Excavated	Flooded	Filled	Excavated	Flooded
P1								
P2								
5f. Total								
5g. Comments:								
5h. Is a dam high hazard permit required?				<input type="checkbox"/> Yes <input type="checkbox"/> No If yes, permit ID no:				
5i. Expected pond surface area (acres):								
5j. Size of pond watershed (acres):								
5k. Method of construction:								

6. Buffer Impacts (for DWQ)

If project will impact a protected riparian buffer, then complete the chart below. If yes, then individually list all buffer impacts below. If any impacts require mitigation, then you **MUST** fill out Section D of this form.

6a. Project is in which protected basin?			<input type="checkbox"/> Neuse <input type="checkbox"/> Catawba	<input type="checkbox"/> Tar-Pamlico <input type="checkbox"/> Randleman	<input type="checkbox"/> Other:
6b. Buffer impact number – Permanent (P) or Temporary (T)	6c. Reason for impact	6d. Stream name	6e. Buffer mitigation required?	6f. Zone 1 impact (square feet)	6g. Zone 2 impact (square feet)
B1 <input type="checkbox"/> P <input type="checkbox"/> T			<input type="checkbox"/> Yes <input type="checkbox"/> No		
B2 <input type="checkbox"/> P <input type="checkbox"/> T			<input type="checkbox"/> Yes <input type="checkbox"/> No		
B3 <input type="checkbox"/> P <input type="checkbox"/> T			<input type="checkbox"/> Yes <input type="checkbox"/> No		
6h. Total buffer impacts					
6i. Comments:					

D. Impact Justification and Mitigation		
1. Avoidance and Minimization		
1a. Specifically describe measures taken to avoid or minimize the proposed impacts in designing project. The proposed bridge is 34 feet longer than the existing bridge and will have less bents in the stream; the proposed bridge will be at approximately the same grade as the existing structure; an off site detour will be used, 3:1 fill slopes where practicable. No deck drains. Removal of existing road fill for longer bridge and increasing bridge opening will improve hydrological conveyance and reduce bridge opening velocities. Placement of stormwater control measures outside wetlands where practicable. Best Management Practices for the Protection of Surface Waters will be implemented.		
1b. Specifically describe measures taken to avoid or minimize the proposed impacts through construction techniques. Hand clearing will be used instead of mechanized clearing. Open trench excavation minimized for utility relocation by using trenchless (directional bore) methodology where practicable; further permanent utility impacts minimized by placement of impact within area to be filled due to bridge construction. An anadromous fish moratorium will be adhered to from 2/15 to 6/15. Temporary workbridges will be used as opposed to temporary work pads.		
2. Compensatory Mitigation for Impacts to Waters of the U.S. or Waters of the State		
2a. Does the project require Compensatory Mitigation for impacts to Waters of the U.S. or Waters of the State?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No If no, explain:	
2b. If yes, mitigation is required by (check all that apply):	<input type="checkbox"/> DWQ <input checked="" type="checkbox"/> Corps	
2c. If yes, which mitigation option will be used for this project?	<input type="checkbox"/> Mitigation bank <input checked="" type="checkbox"/> Payment to in-lieu fee program <input type="checkbox"/> Permittee Responsible Mitigation	
3. Complete if Using a Mitigation Bank		
3a. Name of Mitigation Bank: not applicable		
3b. Credits Purchased (attach receipt and letter)	Type	Quantity
3c. Comments:		
4. Complete if Making a Payment to In-lieu Fee Program		
4a. Approval letter from in-lieu fee program is attached.	<input checked="" type="checkbox"/> Yes	
4b. Stream mitigation requested:	linear feet	
4c. If using stream mitigation, stream temperature:	<input type="checkbox"/> warm <input type="checkbox"/> cool <input type="checkbox"/> cold	
4d. Buffer mitigation requested (DWQ only):	square feet	
4e. Riparian wetland mitigation requested:	1.34 acres	
4f. Non-riparian wetland mitigation requested:	acres	
4g. Coastal (tidal) wetland mitigation requested:	acres	
4h. Comments:		
5. Complete if Using a Permittee Responsible Mitigation Plan		
5a. If using a permittee responsible mitigation plan, provide a description of the proposed mitigation plan. NC EEP will provide wetland mitigation		

6. Buffer Mitigation (State Regulated Riparian Buffer Rules) – required by DWQ

6a. Will the project result in an impact within a protected riparian buffer that requires buffer mitigation?

Yes No

6b. If yes, then identify the square feet of impact to each zone of the riparian buffer that requires mitigation. Calculate the amount of mitigation required.

Zone	6c. Reason for impact	6d. Total impact (square feet)	Multiplier	6e. Required mitigation (square feet)
Zone 1			3 (2 for Catawba)	
Zone 2			1.5	
6f. Total buffer mitigation required:				

6g. If buffer mitigation is required, discuss what type of mitigation is proposed (e.g., payment to private mitigation bank, permittee responsible riparian buffer restoration, payment into an approved in-lieu fee fund).

6h. Comments:

E. Stormwater Management and Diffuse Flow Plan (required by DWQ)	
1. Diffuse Flow Plan	
1a. Does the project include or is it adjacent to protected riparian buffers identified within one of the NC Riparian Buffer Protection Rules?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
1b. If yes, then is a diffuse flow plan included? If not, explain why. Comments:	<input type="checkbox"/> Yes <input type="checkbox"/> No
2. Stormwater Management Plan	
2a. What is the overall percent imperviousness of this project?	N/A
2b. Does this project require a Stormwater Management Plan?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
2c. If this project DOES NOT require a Stormwater Management Plan, explain why:	
2d. If this project DOES require a Stormwater Management Plan, then provide a brief, narrative description of the plan: See attached permit drawings and stormwater management plan.	
2e. Who will be responsible for the review of the Stormwater Management Plan?	<input type="checkbox"/> Certified Local Government <input type="checkbox"/> DWQ Stormwater Program <input checked="" type="checkbox"/> DWQ 401 Unit
3. Certified Local Government Stormwater Review	
3a. In which local government's jurisdiction is this project?	not applicable
3b. Which of the following locally-implemented stormwater management programs apply (check all that apply):	<input type="checkbox"/> Phase II <input type="checkbox"/> NSW <input type="checkbox"/> USMP <input type="checkbox"/> Water Supply Watershed <input type="checkbox"/> Other:
3c. Has the approved Stormwater Management Plan with proof of approval been attached?	<input type="checkbox"/> Yes <input type="checkbox"/> No
4. DWQ Stormwater Program Review	
4a. Which of the following state-implemented stormwater management programs apply (check all that apply):	<input checked="" type="checkbox"/> Coastal counties <input type="checkbox"/> HQW <input type="checkbox"/> ORW <input type="checkbox"/> Session Law 2006-246 <input type="checkbox"/> Other:
4b. Has the approved Stormwater Management Plan with proof of approval been attached?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
5. DWQ 401 Unit Stormwater Review	
5a. Does the Stormwater Management Plan meet the appropriate requirements?	<input type="checkbox"/> Yes <input type="checkbox"/> No N/A
5b. Have all of the 401 Unit submittal requirements been met?	<input type="checkbox"/> Yes <input type="checkbox"/> No N/A

F. Supplementary Information	
1. Environmental Documentation (DWQ Requirement)	
1a. Does the project involve an expenditure of public (federal/state/local) funds or the use of public (federal/state) land?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
1b. If you answered "yes" to the above, does the project require preparation of an environmental document pursuant to the requirements of the National or State (North Carolina) Environmental Policy Act (NEPA/SEPA)?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
1c. If you answered "yes" to the above, has the document review been finalized by the State Clearing House? (If so, attach a copy of the NEPA or SEPA final approval letter.) Comments:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
2. Violations (DWQ Requirement)	
2a. Is the site in violation of DWQ Wetland Rules (15A NCAC 2H .0500), Isolated Wetland Rules (15A NCAC 2H .1300), DWQ Surface Water or Wetland Standards, or Riparian Buffer Rules (15A NCAC 2B .0200)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
2b. Is this an after-the-fact permit application?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
2c. If you answered "yes" to one or both of the above questions, provide an explanation of the violation(s):	
3. Cumulative Impacts (DWQ Requirement)	
3a. Will this project (based on past and reasonably anticipated future impacts) result in additional development, which could impact nearby downstream water quality?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
3b. If you answered "yes" to the above, submit a qualitative or quantitative cumulative impact analysis in accordance with the most recent DWQ policy. If you answered "no," provide a short narrative description. Due to the minimal transportation impact resulting from this bridge replacement, this project will neither influence nearby land uses nor stimulate growth. Therefore, a detailed indirect or cumulative effects study will not be necessary.	
4. Sewage Disposal (DWQ Requirement)	
4a. Clearly detail the ultimate treatment methods and disposition (non-discharge or discharge) of wastewater generated from the proposed project, or available capacity of the subject facility. not applicable	

5. Endangered Species and Designated Critical Habitat (Corps Requirement)		
5a. Will this project occur in or near an area with federally protected species or habitat?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
5b. Have you checked with the USFWS concerning Endangered Species Act impacts?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
5c. If yes, indicate the USFWS Field Office you have contacted.	<input type="checkbox"/> Raleigh <input type="checkbox"/> Asheville	
5d. What data sources did you use to determine whether your site would impact Endangered Species or Designated Critical Habitat? NCNHP, USFWS, field surveys		
6. Essential Fish Habitat (Corps Requirement)		
6a. Will this project occur in or near an area designated as essential fish habitat?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
6b. What data sources did you use to determine whether your site would impact Essential Fish Habitat? NMFS County Index		
7. Historic or Prehistoric Cultural Resources (Corps Requirement)		
7a. Will this project occur in or near an area that the state, federal or tribal governments have designated as having historic or cultural preservation status (e.g., National Historic Trust designation or properties significant in North Carolina history and archaeology)?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
7b. What data sources did you use to determine whether your site would impact historic or archeological resources? NEPA Documentation		
8. Flood Zone Designation (Corps Requirement)		
8a. Will this project occur in a FEMA-designated 100-year floodplain?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
8b. If yes, explain how project meets FEMA requirements: NCDOT Hydraulics Unit coordination with FEMA		
8c. What source(s) did you use to make the floodplain determination? FEMA Maps		
<u>Dr. Gregory J. Thorpe, Ph D</u> Applicant/Agent's Printed Name	 _____ Applicant/Agent's Signature <small>(Agent's signature is valid only if an authorization letter from the applicant is provided.)</small>	1.24.13 _____ Date

APPLICATION for Major Development Permit

(last revised 12/27/06)



North Carolina DIVISION OF COASTAL MANAGEMENT

1. Primary Applicant/ Landowner Information			
Business Name N.C. Department Of Transportation		Project Name (if applicable) B-5122 (42264.1.1)	
Applicant 1: First Name Gregory	MI J	Last Name Thorpe	
Applicant 2: First Name	MI	Last Name	
<i>If additional applicants, please attach an additional page(s) with names listed.</i>			
Mailing Address 1598 Mail Service Center		PO Box	City Raleigh
		State NC	
ZIP 27699 1598	Country USA	Phone No. 919 - 707 - 6135 ext.	FAX No. - -
Street Address (if different from above)		City	State
		ZIP -	
Email cdmanley@ncdot.gov			

2. Agent/Contractor Information			
Business Name			
Agent/ Contractor 1: First Name	MI	Last Name	
Agent/ Contractor 2: First Name	MI	Last Name	
Mailing Address		PO Box	City
		State	
ZIP		Phone No. 1 - - ext.	Phone No. 2 - - ext.
FAX No.		Contractor #	
Street Address (if different from above)		City	State
		ZIP -	
Email			

<Form continues on back>

3. Project Location				
County (can be multiple) Bertie		Street Address US 13 at Bridge No. 51		State Rd. # US 13
Subdivision Name			City Windsor	State NC
			Zip 27983 -	
Phone No. - - ext.			Lot No.(s) (if many, attach additional page with list)	
a. In which NC river basin is the project located? Roanoke			b. Name of body of water nearest to proposed project Cashie River	
c. Is the water body identified in (b) above, natural or manmade? <input checked="" type="checkbox"/> Natural <input type="checkbox"/> Manmade <input type="checkbox"/> Unknown			d. Name the closest major water body to the proposed project site. Roanoke River	
e. Is proposed work within city limits or planning jurisdiction? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No			f. If applicable, list the planning jurisdiction or city limit the proposed work falls within. Town of Windsor	

4. Site Description	
a. Total length of shoreline on the tract (ft.) 417	b. Size of entire tract (sq.ft.) 210,852
c. Size of individual lot(s) (If many lot sizes, please attach additional page with a list)	d. Approximate elevation of tract above NHW (normal high water) or NWL (normal water level) 16 <input type="checkbox"/> NHW or <input checked="" type="checkbox"/> NWL
e. Vegetation on tract Riverine Swamp Forest, Wetlands, Grass (US 13 Shoulders and yards)	
f. Man-made features and uses now on tract Existing US 13 road facility	
g. Identify and describe the existing land uses adjacent to the proposed project site. Existing US 13 road facility; Residence	
h. How does local government zone the tract? residential	i. Is the proposed project consistent with the applicable zoning? (Attach zoning compliance certificate, if applicable) <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> NA
j. Is the proposed activity part of an urban waterfront redevelopment proposal? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
k. Has a professional archaeological assessment been done for the tract? If yes, attach a copy. <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA If yes, by whom?	
l. Is the proposed project located in a National Registered Historic District or does it involve a National Register listed or eligible property? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> NA	

<Form continues on next page>

m. (i) Are there wetlands on the site?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
(ii) Are there coastal wetlands on the site?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
(iii) If yes to either (i) or (ii) above, has a delineation been conducted? (Attach documentation, if available)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

n. Describe existing wastewater treatment facilities. N/A
o. Describe existing drinking water supply source. N/A
p. Describe existing storm water management or treatment systems. None

5. Activities and Impacts	
a. Will the project be for commercial, public, or private use?	<input type="checkbox"/> Commercial <input checked="" type="checkbox"/> Public/Government <input type="checkbox"/> Private/Community
b. Give a brief description of purpose, use, and daily operations of the project when complete. Replace bridge due to low sufficiency rating. Lengthen bridge and improve road facility and safety with widening and guardrail.	
c. Describe the proposed construction methodology, types of construction equipment to be used during construction, the number of each type of equipment and where it is to be stored. Propose work bridge with temporary causeway(s). Typical construction equipment includes Crane, Bulldozer, Dump Trucks, Motorgrader, etc.	
d. List all development activities you propose. Replace/Lengthen Bridge. Remove portion existing road fill/ causeway to improve bridge hydraulic conveyance. Addition of fill due to widening facility and raising of the existing road grade.	
e. Are the proposed activities maintenance of an existing project, new work, or both?	Both
f. What is the approximate total disturbed land area resulting from the proposed project?	2.0 <input type="checkbox"/> Sq.Ft or <input checked="" type="checkbox"/> Acres
g. Will the proposed project encroach on any public easement, public accessway or other area that the public has established use of?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA
h. Describe location and type of existing and proposed discharges to waters of the state. No direct discharge. Existing Bridge has deck drains with direct discharge to river. Proposed Bridge will not have deck drains.	
i. Will wastewater or stormwater be discharged into a wetland?	
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA	
If yes, will this discharged water be of the same salinity as the receiving water?	
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA	
j. Is there any mitigation proposed?	
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA	
If yes, attach a mitigation proposal.	

<Form continues on back>

6. Additional Information	
<i>In addition to this completed application form, (MP-1) the following items below, if applicable, must be submitted in order for the application package to be complete. Items (a) – (f) are always applicable to any major development application. Please consult the application instruction booklet on how to properly prepare the required items below.</i>	
a. A project narrative.	
b. An accurate, dated work plat (including plan view and cross-sectional drawings) drawn to scale. Please give the present status of the proposed project. Is any portion already complete? If previously authorized work, clearly indicate on maps, plats, drawings to distinguish between work completed and proposed.	
c. A site or location map that is sufficiently detailed to guide agency personnel unfamiliar with the area to the site.	

d. A copy of the deed (with state application only) or other instrument under which the applicant claims title to the affected properties.
e. The appropriate application fee. Check or money order made payable to DENR.
f. A list of the names and complete addresses of the adjacent waterfront (riparian) landowners and signed return receipts as proof that such owners have received a copy of the application and plats by certified mail. Such landowners must be advised that they have 30 days in which to submit comments on the proposed project to the Division of Coastal Management. Name Phone No. Address Name Phone No. Address Name Phone No. Address
g. A list of previous state or federal permits issued for work on the project tract. Include permit numbers, permittee, and issuing dates.
h. Signed consultant or agent authorization form, if applicable.
i. Wetland delineation, if necessary.
j. A signed AEC hazard notice for projects in oceanfront and inlet areas. <i>(Must be signed by property owner)</i>
k. A statement of compliance with the N.C. Environmental Policy Act (N.C.G.S. 113A 1-10), if necessary. If the project involves expenditure of public funds or use of public lands, attach a statement documenting compliance with the North Carolina Environmental Policy Act.

7. Certification and Permission to Enter on Land

I understand that any permit issued in response to this application will allow only the development described in the application. The project will be subject to the conditions and restrictions contained in the permit.

I certify that I am authorized to grant, and do in fact grant permission to representatives of state and federal review agencies to enter on the aforementioned lands in connection with evaluating information related to this permit application and follow-up monitoring of the project.

I further certify that the information provided in this application is truthful to the best of my knowledge.

Date 4.3.13 Print Name Gregory J. Thayer PhD
Signature E. L. Lusk for

Please indicate application attachments pertaining to your proposed project.

- DCM MP-2 Excavation and Fill Information DCM MP-5 Bridges and Culverts
- DCM MP-3 Upland Development
- DCM MP-4 Structures Information



RECEIVED
Division of Highways

DEC 16 2008

Section
Development and
Analysis Branch

North Carolina Department of Cultural Resources
State Historic Preservation Office

Peter B. Sandbeck, Administrator

Michael F. Easley, Governor
Lisbeth C. Evans, Secretary
Jeffrey J. Crow, Deputy Secretary

Office of Archives and History
Division of Historical Resources
David Brook, Director

December 11, 2008

MEMORANDUM

TO: Tracy Walter
Project Development and Environmental Analysis Branch
NCDOT Bridge Unit

FROM: Peter Sandbeck *RSB for Peter Sandbeck*

SUBJECT: Bridge 51 on US 13 over Cashie Creek, B-5122, Bertie County, ER 08-2887

We have conducted a review of the proposed undertaking and are aware of no historic resources which would be affected by the project. Therefore, we have no comment on the undertaking as proposed.

The above comments are made pursuant to Section 106 of the National Historic Preservation Act and the Advisory Council on Historic Preservation's Regulations for Compliance with Section 106 codified at 36 CFR Part 800.

Thank you for your cooperation and consideration. If you have questions concerning the above comment, contact Renee Gledhill-Earley, environmental review coordinator, at 919-807-6579. In all future communication concerning this project, please cite the above referenced tracking number.

cc: Mary Pope Furr, NCDOT
Matt Wilkerson, NCDOT

EXCAVATION and FILL

(Except for bridges and culverts)

Attach this form to Joint Application for CAMA Major Permit, Form DCM MP-1. Be sure to complete all other sections of the Joint Application that relate to this proposed project. Please include all supplemental information.

Describe below the purpose of proposed excavation and/or fill activities. All values should be given in feet.

	Access Channel (NLW or NWL)	Canal	Boat Basin	Boat Ramp	Rock Groin	Rock Breakwater	Other (excluding shoreline stabilization)
Length							820
Width							51
Avg. Existing Depth					NA	NA	13
Final Project Depth					NA	NA	15

1. EXCAVATION

This section not applicable

- a. Amount of material to be excavated from below NHW or NWL in cubic yards.
0
- b. Type of material to be excavated.
Dirt
- c. (i) Does the area to be excavated include coastal wetlands/marsh (CW), submerged aquatic vegetation (SAV), shell bottom (SB), or other wetlands (WL)? If any boxes are checked, provide the number of square feet affected.
 CW _____ SAV _____ SB _____
 WL 405 None
- (ii) Describe the purpose of the excavation in these areas:
Utility relocations (see Utility Drawings and Narrative)
- d. High-ground excavation in cubic yards.
305

2. DISPOSAL OF EXCAVATED MATERIAL

This section not applicable

- a. Location of disposal area.
Temporarily adjacent to the trench, then put back in.
- b. Dimensions of disposal area.
- c. (i) Do you claim title to disposal area?
 Yes No NA
- (ii) If no, attach a letter granting permission from the owner.
- d. (i) Will a disposal area be available for future maintenance?
 Yes No NA
- (ii) If yes, where?
- e. (i) Does the disposal area include any coastal wetlands/marsh (CW), submerged aquatic vegetation (SAV), shell bottom (SB), or other wetlands (WL)? If any boxes are checked, provide the number of square feet affected.
 CW _____ SAV _____ SB _____
 WL _____ None
- (ii) Describe the purpose of disposal in these areas:
- f. (i) Does the disposal include any area in the water?
 Yes No NA
- (ii) If yes, how much water area is affected?

3. SHORELINE STABILIZATION

(If development is a wood groin, use MP-4 – Structures)

This section not applicable

- a. Type of shoreline stabilization:
 Bulkhead Riprap Breakwater/Sill Other: N/A
- b. Length: _____
 Width: _____
- c. Average distance waterward of NHW or NWL:

- d. Maximum distance waterward of NHW or NWL:

- e. Type of stabilization material:

- f. (i) Has there been shoreline erosion during preceding 12 months?
 Yes No NA
 (ii) If yes, state amount of erosion and source of erosion amount information.

- g. Number of square feet of fill to be placed below water level.
 Bulkhead backfill _____ Riprap _____
 Breakwater/Sill _____ Other _____
- h. Type of fill material.
 N/A
- i. Source of fill material.

4. OTHER FILL ACTIVITIES This section not applicable
 (Excluding Shoreline Stabilization)

- a. (i) Will fill material be brought to the site? Yes No NA
 If yes,
 (ii) Amount of material to be placed in the water 0
 (iii) Dimensions of fill area _____
 (iv) Purpose of fill

- b. (i) Will fill material be placed in coastal wetlands/marsh (CW), submerged aquatic vegetation (SAV), shell bottom (SB), or other wetlands (WL)? If any boxes are checked, provide the number of square feet affected.
 CW _____ SAV _____ SB _____
 WL 29,500 None
 (ii) Describe the purpose of the fill in these areas:
 Facility/ Shoulder widening; Construction access

5. GENERAL

- a. How will excavated or fill material be kept on site and erosion controlled?
 The amount is too small and temporary to propose erosion control.

- b. What type of construction equipment will be used (e.g., dragline, backhoe, or hydraulic dredge)?
 Something like a backhoe.

- c. (i) Will navigational aids be required as a result of the project?
 Yes No NA
 (ii) If yes, explain what type and how they will be implemented.

- d. (i) Will wetlands be crossed in transporting equipment to project site? Yes No NA
 (ii) If yes, explain steps that will be taken to avoid or minimize environmental impacts.

4.3.13
 Date
B-5122
 Project Name
Gregory J. Thorpe, PhD NCDOT
 Applicant Name
E. J. Lusk
 Applicant Signature

BRIDGES and CULVERTS

Attach this form to Joint Application for CAMA Major Permit, Form DCM MP-1. Be sure to complete all other sections of the Joint Application that relate to this proposed project. Please include all supplemental information.

1. BRIDGES

This section not applicable

a. Is the proposed bridge:
 Commercial Public/Government Private/Community

c. Type of bridge (construction material):
3@ 60'; 36" Prestressed Girders w/ Vertical Abutments

e. (i) Will proposed bridge replace an existing bridge? Yes No
If yes,
(ii) Length of existing bridge: 149'
(iii) Width of existing bridge: 26'
(iv) Navigation clearance underneath existing bridge: 16.8'
(v) Will all, or a part of, the existing bridge be removed?
(Explain) All of the existing bridge will be removed and a portion of the road fill will be removed as well. Remnant pipes will be cut at the mudline if not pulled out.

b. Water body to be crossed by bridge:
Cashie River

d. Water depth at the proposed crossing at NLW or NWL:
NWL- 3.5'

f. (i) Will proposed bridge replace an existing culvert? Yes No
If yes,
(ii) Length of existing culvert: _____
(iii) Width of existing culvert: _____
(iv) Height of the top of the existing culvert above the NHW or NWL: _____
(v) Will all, or a part of, the existing culvert be removed?
(Explain)

g. Length of proposed bridge: 180'
i. Will the proposed bridge affect existing water flow? Yes No
If yes, explain: Longer Bridge and removed fill will improve bridge conveyance and reduce velocities.

h. Width of proposed bridge: 36'
j. Will the proposed bridge affect navigation by reducing or increasing the existing navigable opening? Yes No
If yes, explain: Bridge opening will increase in width by 39 ft. and the vertical clearance will decrease by less than 1 ft.

k. Navigation clearance underneath proposed bridge: 16'

l. Have you contacted the U.S. Coast Guard concerning their approval? Yes No
If yes, explain: NCDOT's letter to FHWA concerning the USCG responsibility was forwarded to the USCG by FHWA.

m. Will the proposed bridge cross wetlands containing no navigable waters? Yes No
If yes, explain:

n. Height of proposed bridge above wetlands: 12'

2. CULVERTS

This section not applicable

a. Number of culverts proposed: _____

b. Water body in which the culvert is to be placed:

< Form continues on back >

c. Type of culvert (construction material):

d. (i) Will proposed culvert replace an existing bridge? Yes No

If yes,

(ii) Length of existing bridge: _____

(iii) Width of existing bridge: _____

(iv) Navigation clearance underneath existing bridge: _____

(v) Will all, or a part of, the existing bridge be removed? (Explain)

f. Length of proposed culvert: _____

h. Height of the top of the proposed culvert above the NHW or NWL.

j. Will the proposed culvert affect navigation by reducing or increasing the existing navigable opening? Yes No

If yes, explain:

e. (i) Will proposed culvert replace an existing culvert? Yes No

If yes,

(ii) Length of existing culvert(s): _____

(iii) Width of existing culvert(s): _____

(iv) Height of the top of the existing culvert above the NHW or NWL: _____

(v) Will all, or a part of, the existing culvert be removed? (Explain)

g. Width of proposed culvert: _____

i. Depth of culvert to be buried below existing bottom contour.

k. Will the proposed culvert affect existing water flow? Yes No

If yes, explain:

3. EXCAVATION and FILL

This section not applicable

a. (i) Will the placement of the proposed bridge or culvert require any excavation below the NHW or NWL? Yes No

If yes,

(ii) Avg. length of area to be excavated: _____

(iii) Avg. width of area to be excavated: _____

(iv) Avg. depth of area to be excavated: _____

(v) Amount of material to be excavated in cubic yards: _____

b. (i) Will the placement of the proposed bridge or culvert require any excavation within coastal wetlands/marsh (CW), submerged aquatic vegetation (SAV), shell bottom (SB), or other wetlands (WL)? If any boxes are checked, provide the number of square feet affected.

CW _____ SAV _____ SB _____

WL _____ None

(ii) Describe the purpose of the excavation in these areas:

c. (i) Will the placement of the proposed bridge or culvert require any high-ground excavation? Yes No

If yes,

(ii) Avg. length of area to be excavated: 18'

(iii) Avg. width of area to be excavated: 68'

(iv) Avg. depth of area to be excavated: 5'

(v) Amount of material to be excavated in cubic yards: 227

d. If the placement of the bridge or culvert involves any excavation, please complete the following:

(i) Location of the spoil disposal area: Approved DOT Site

(ii) Dimensions of the spoil disposal area: To be determined

(iii) Do you claim title to the disposal area? Yes No (If no, attach a letter granting permission from the owner.)

(iv) Will the disposal area be available for future maintenance? Yes No

(v) Does the disposal area include any coastal wetlands/marsh (CW), submerged aquatic vegetation (SAVs), other wetlands (WL), or shell bottom (SB)?

CW SAV WL SB None

If any boxes are checked, give dimensions if different from (ii) above.

(vi) Does the disposal area include any area below the NHW or NWL? Yes No

If yes, give dimensions if different from (ii) above.

e. (i) Will the placement of the proposed bridge or culvert result in any fill (other than excavated material described in Item d above) to be placed below NHW or NWL? Yes No

If yes,

(ii) Avg. length of area to be filled: _____

(iii) Avg. width of area to be filled: _____

(iv) Purpose of fill: _____

f. (i) Will the placement of the proposed bridge or culvert result in any fill (other than excavated material described in Item d above) to be placed within coastal wetlands/marsh (CW), submerged aquatic vegetation (SAV), shell bottom (SB), or other wetlands (WL)? If any boxes are checked, provide the number of square feet affected.

CW _____ SAV _____ SB _____

WL 29,500 None

(ii) Describe the purpose of the excavation in these areas:

The purpose of the FILL is for the roadway shoulders.

g. (i) Will the placement of the proposed bridge or culvert result in any fill (other than excavated material described in Item d above) to be placed on high-ground? Yes No

If yes,

(ii) Avg. length of area to be filled: 760'

(iii) Avg. width of area to be filled: 50'

(iv) Purpose of fill: Road facility improvement/ Lane and shoulder widening

4. GENERAL

a. Will the proposed project require the relocation of any existing utility lines? Yes No

If yes, explain: See Utility Drawings and Narrative.

If this portion of the proposed project has already received approval from local authorities, please attach a copy of the approval or certification.

b. Will the proposed project require the construction of any temporary detour structures? Yes No

If yes, explain:

< Form continues on back >

c. Will the proposed project require any work channels? Yes No

If yes, complete Form DCM-MP-2.

d. How will excavated or fill material be kept on site and erosion controlled?

Using NCDOT Best Management Practices for Sediment and Erosion Control.

e. What type of construction equipment will be used (for example, dragline, backhoe, or hydraulic dredge)?
Crane, Bulldozer, Dump Truck, Motor Grader

f. Will wetlands be crossed in transporting equipment to project site?
 Yes No

If yes, explain steps that will be taken to avoid or minimize environmental impacts.

g. Will the placement of the proposed bridge or culvert require any shoreline stabilization?
 Yes No
If yes, complete form MP-2, Section 3 for Shoreline Stabilization only.

Date 4.3.13

Project Name B-5122

Applicant Name Gregory J. Thayer, PhD NCDOT

Applicant Signature E.L. Luck for



January 22, 2013

Mr. Gregory J. Thorpe, Ph.D.
Manager, Project Development and Environmental Analysis Unit
North Carolina Department of Transportation
1548 Mail Service Center
Raleigh, North Carolina 27699-1548

Dear Dr. Thorpe:

Subject: EEP Mitigation Acceptance Letter:

B-5122, Replace Bridge Number 51 over the Cashie River on US 13, Bertie County

The purpose of this letter is to notify you that the Ecosystem Enhancement Program (EEP) will provide the compensatory riparian wetland mitigation for the subject project. Based on the information supplied by you on January 18, 2013, the impacts are located in CU 03010107 of the Roanoke River basin in the Northern Outer Coastal Plain (NOCP) Eco-Region, and are as follows:

Roanoke 03010107 NOCP	Stream			Wetlands			Buffer (Sq. Ft.)	
	Cold	Cool	Warm	Riparian	Non-Riparian	Coastal Marsh	Zone 1	Zone 2
Impacts (feet/acres)	0	0	0	0.67	0	0	0	0

This impact and associated mitigation need were under projected by the NCDOT in the 2012 impact data. EEP will commit to implement sufficient compensatory riparian wetland mitigation credits to offset the impacts associated with this project as determined by the regulatory agencies using the delivery timeline listed in Section F.3.c.iii of the N.C. Department of Environment and Natural Resources' Ecosystem Enhancement Program In-Lieu Fee Instrument dated July 28, 2010. If the above referenced impact amounts are revised, then this mitigation acceptance letter will no longer be valid and a new mitigation acceptance letter will be required from EEP.

If you have any questions or need additional information, please contact Ms. Beth Harmon at 919-707-8420.

Sincerely,

Suzanne Klimek
EEP Acting Director

cc: Mr. Bill Biddlecome, USACE – Washington Regulatory Field Office
Ms. Amy Chapman, Division of Water Quality, Wetlands/401 Unit
File: B-5122

Restoring... Enhancing... Protecting Our State





North Carolina Department of Transportation

Highway Stormwater Program
STORMWATER MANAGEMENT PLAN
 FOR LINEAR ROADWAY PROJECTS



(Version 1.2; Released September 2011)

Project/TIP No.: B-5122 (42264.1.1) County(ies): Bertie Page 1 of 1

General Project Information

Project No.:		B-5122 (42264.1.1)		Project Type: Bridge Replacement		Date: 11/7/2011	
NCDOT Contact:		Randy Henegar, P.E.		Contractor / Designer:		N/A	
	Address:	1020 Birch Ridge Dr. Raleigh, N.C. 27610			Address:		
	Phone:	919-707-6726			Phone:		
	Email:	rhenegar@ncdot.gov			Email:		
City/Town:		Windsor		County(ies):		Bertie	
River Basin(s):		Roanoke		CAMA County?		Yes	
Primary Receiving Water:		Cashie River		NCDWQ Stream Index No.:		24-2-(1)	
NCDWQ Surface Water Classification for Primary Receiving Water			Primary:	Class C			
			Supplemental:	Swamp Waters (Sw)			
Other Stream Classification:		None					
303(d) Impairments:		None					
Buffer Rules in Effect		N/A					

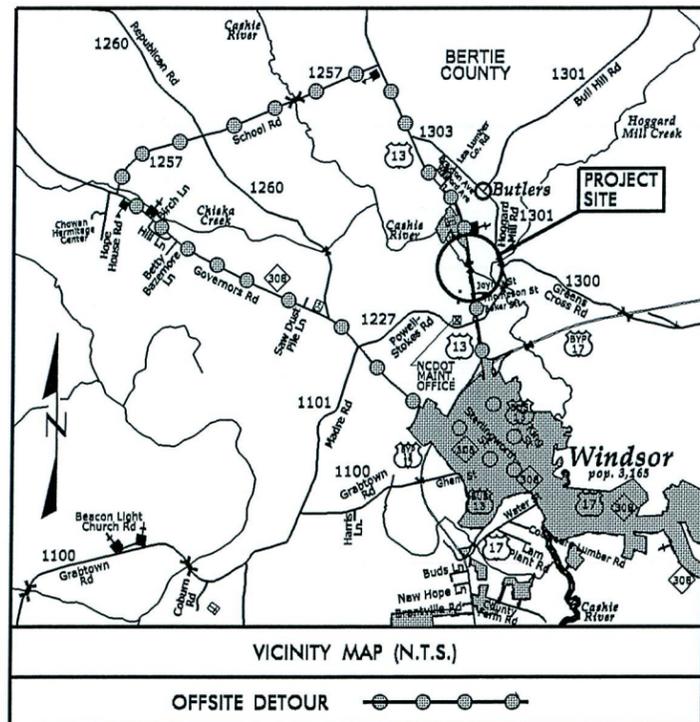
Project Description

Project Length (lin. Miles or feet):	0.296 miles	Surrounding Land Use:	Residential; Farmland
	Proposed Project		Existing Site
Project Built-Upon Area (ac.)	0.60 ac.		0.51 ac.
Typical Cross Section Description:	24-foot pavement width providing two 12-foot lanes. Eight-foot shoulders, four foot which is paved.		22-foot pavement width with 6-foot grass shoulders.
Average Daily Traffic (veh/hr/day):	Design/Future: 13,115	Existing:	7885

General Project Narrative:

References

See Sheet 1-A For Index of Sheets
See Sheet 1-B For Symbology



ROW PLANS

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

BERTIE COUNTY

LOCATION: BRIDGE NO. 51, OVER THE CASHIE RIVER, ON US 13

TYPE OF WORK: GRADING, DRAINAGE, PAVING, & STRUCTURE.

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	B-5122	1	
STATE PROJ. NO.	P.A. PROJ. NO.	DESCRIPTION	
42264.1.1	BRNHS-13(24)	PE	
42264.2.1	BRNHS-13(24)	RW & UTIL	

PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION

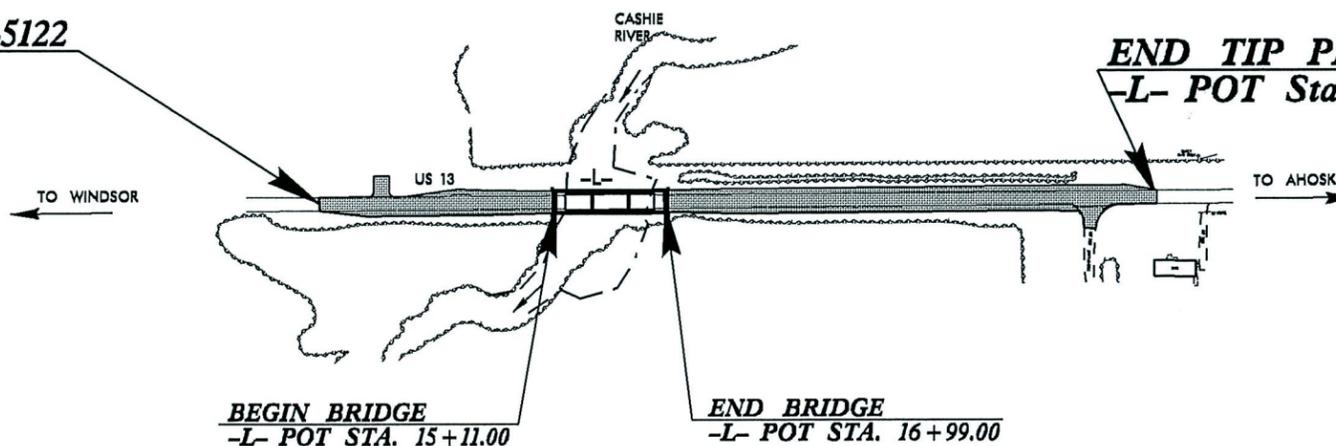
Permit Drawing
Sheet 1 of 13



WETLAND AND STREAM IMPACTS

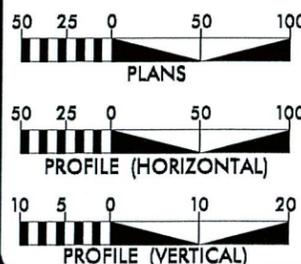
BEGIN TIP PROJECT B-5122
-L- POT Sta. 11 + 25.00

END TIP PROJECT B-5122
-L- POT Sta. 25 + 00.00



CLEARING ON THIS PROJECT SHALL BE PERFORMED TO THE LIMITS ESTABLISHED BY METHOD III.
THIS PROJECT IS WITHIN THE MUNICIPAL BOUNDARIES OF THE TOWN OF WINDSOR.

GRAPHIC SCALES



DESIGN DATA

ADT 2012 = 7,885
ADT 2032 = 13,115
DHV = 11 %
D = 55 %
T = 12 % *
V = 60 MPH
* (TTST 5% + DUALS 7%)
FUNC. CLASS. = MINOR ART.
TIER CLASS. = STATEWIDE

PROJECT LENGTH

LENGTH ROADWAY TIP PROJECT B-5122 = 0.226 mile
LENGTH STRUCTURE TIP PROJECT B-5122 = 0.036 mile
TOTAL LENGTH TIP PROJECT B-5122 = 0.296 mile

Prepared in the Office of:
DIVISION OF HIGHWAYS

1000 Birch Ridge Dr., Raleigh NC, 27610

2012 STANDARD SPECIFICATIONS
RIGHT OF WAY DATE:
NOVEMBER 30, 2011

LETTING DATE:
JUNE 18, 2013

BRENDA MOORE, PE
PROJECT ENGINEER

TATIA L. WHITE, PE
PROJECT DESIGN ENGINEER

HYDRAULICS ENGINEER

SIGNATURE: _____ P.E.

ROADWAY DESIGN
ENGINEER

SIGNATURE: _____ P.E.

DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA



STATE HIGHWAY DESIGN ENGINEER P.E.

TIP PROJECT: B-5122

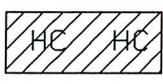
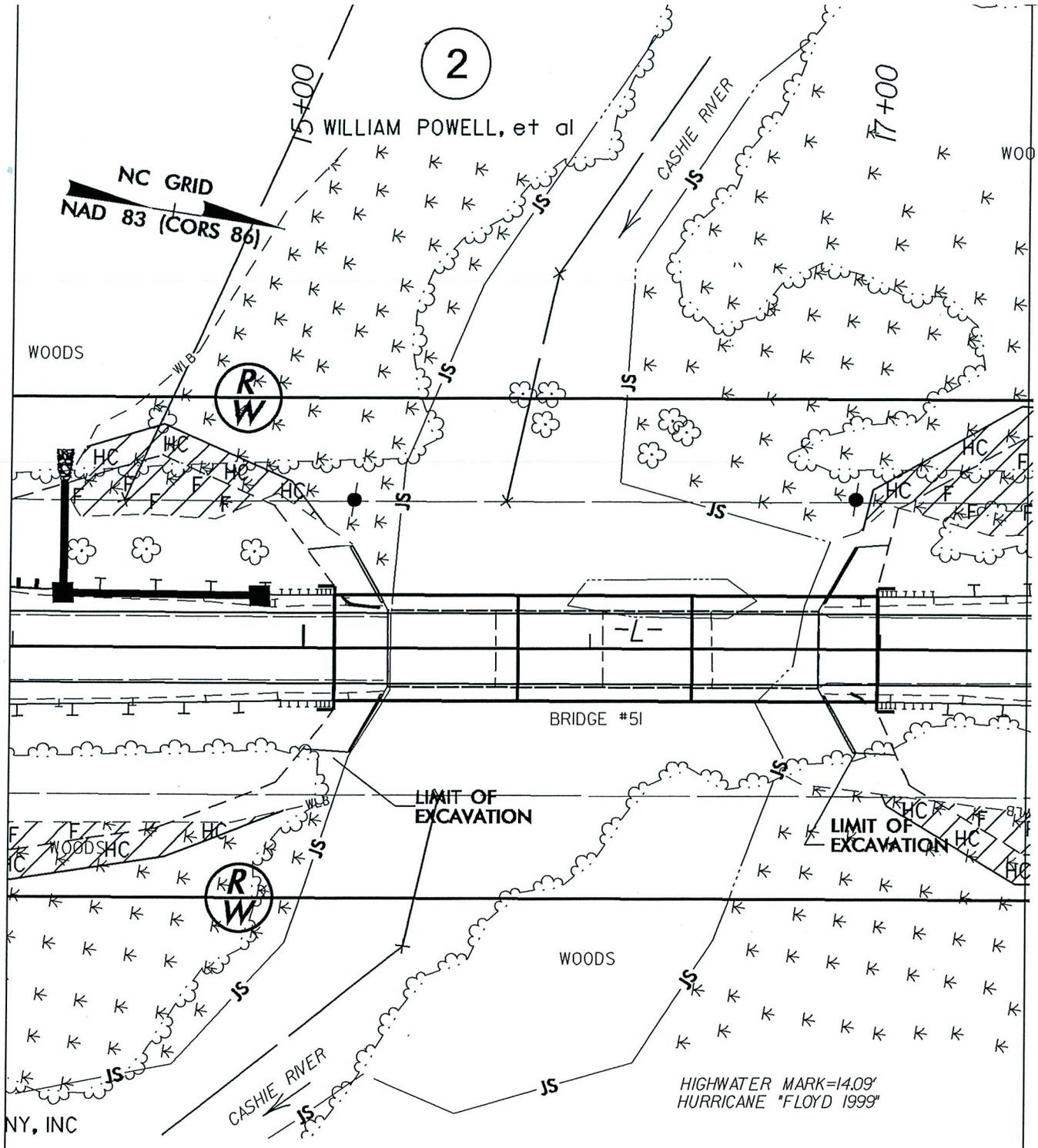
CONTRACT: C203025

SYSTEMS TIME \$\$\$\$\$\$
DESIGN \$\$\$\$\$\$
SERVICES \$\$\$\$\$\$

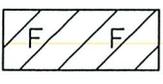
2

WILLIAM POWELL, et al

NC GRID
NAD 83 (CORS 86)



DENOTES HAND CLEARING



DENOTES FILL IN WETLAND

SITE

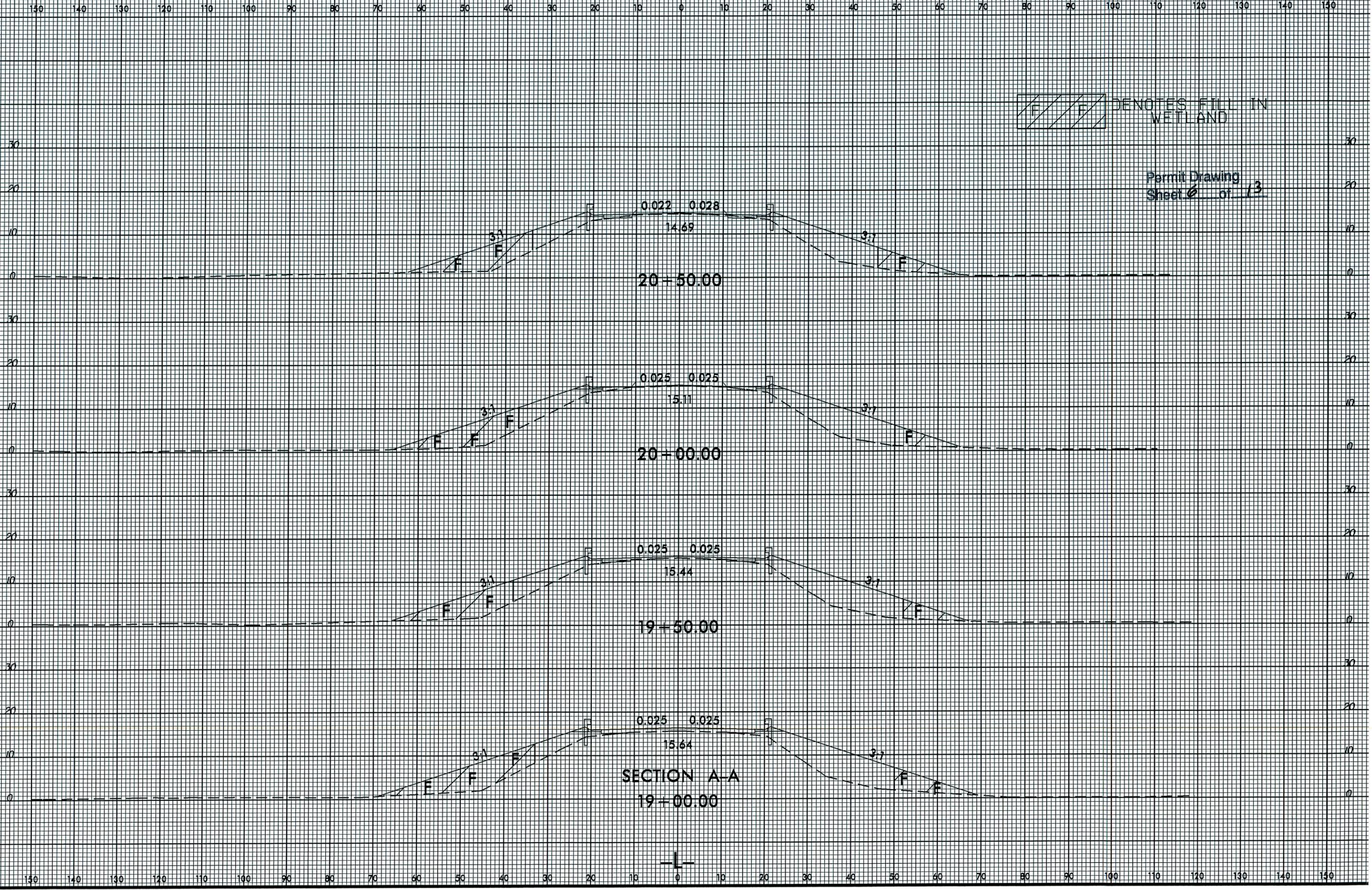
Permit Drawing
Sheet 4 of 13



GRAPHIC SCALE

NCDOT
 DIVISION OF HIGHWAYS
 BERTIE COUNTY
 PROJECT: 42264.1.1 (B-5122)
 REPLACE BRG[#] 51 OVER
 THE CASHIE RIVER ON US 13
 SHEET OF

8/23/98

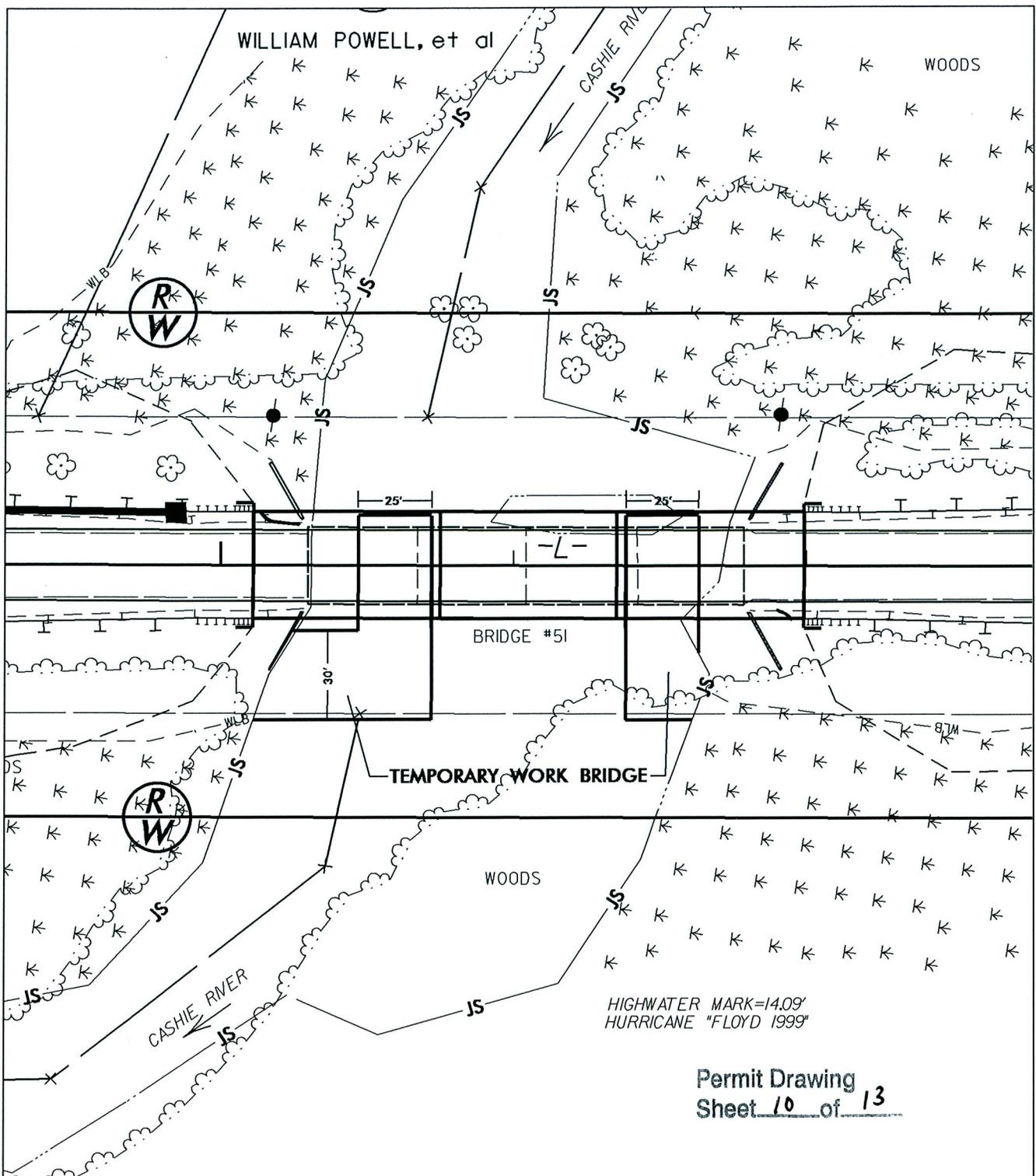


SYNOPSIS OF WORK DONE ON THIS PROJECT

WILLIAM POWELL, et al

WOODS

CASHIE RIVER



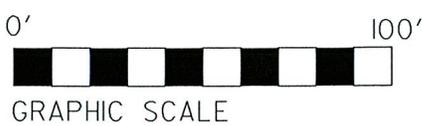
BRIDGE #51

TEMPORARY WORK BRIDGE

HIGHWATER MARK=14.09'
HURRICANE "FLOYD 1999"

Permit Drawing
Sheet 10 of 13

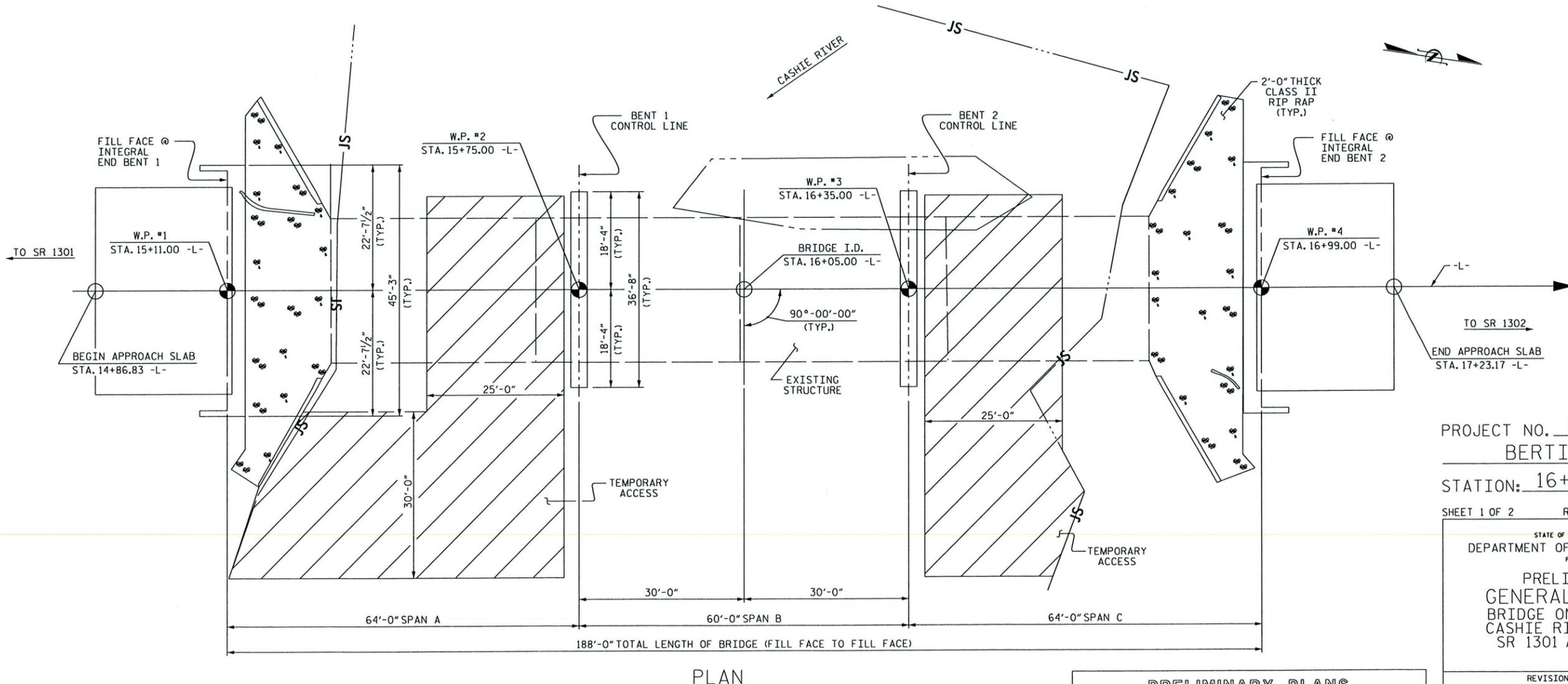
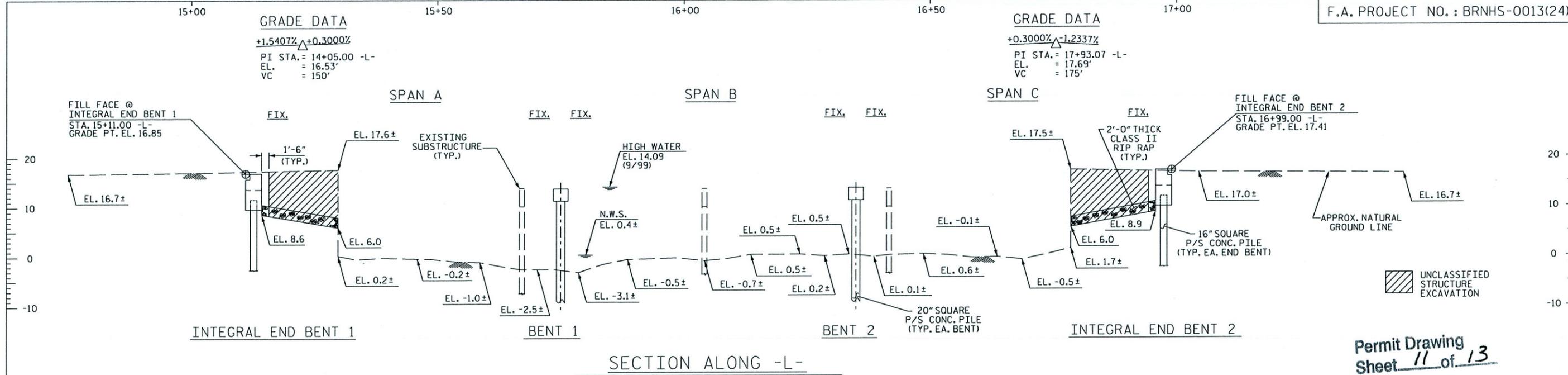
TEMPORARY WORK BRIDGE



NCDOT
DIVISION OF HIGHWAYS
BERTIE COUNTY
PROJECT: 42264.1.1 (B-5122)

**REPLACE BRG#51 OVER
 THE CASHIE RIVER ON US 13**

SHEET OF



PROJECT NO. B-5122
 BERTIE COUNTY
 STATION: 16+05.00 -L-
 SHEET 1 OF 2 REPLACES BRIDGE NO. 51

STATE OF NORTH CAROLINA
 DEPARTMENT OF TRANSPORTATION
 RALEIGH

PRELIMINARY
 GENERAL DRAWING
 BRIDGE ON US 13 OVER
 CASHIE RIVER BETWEEN
 SR 1301 AND SR 1302

DRAWN BY : PEGGY ADKINS DATE : 8-29-12
 CHECKED BY : O. PUIGCERVER DATE : 9-7-12

*****SYTIME*****
 *****DGN*****
 *****USER*****

**PRELIMINARY PLANS
 DO NOT USE FOR CONSTRUCTION**

REVISIONS						SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:	TOTAL SHEETS
1			3			
2			4			

PROPERTY OWNERS

NAMES AND ADDRESSES

PARCEL NO.	NAMES	ADDRESSES
1	Powell & Stokes, INC	217 US 13 N Windsor, N.C. 27983
2	William Powell, et. al	
3	William R. Cowper, III	
5	Thompson and Company	611 Greens Cross Roads Windsor, N.C. 27983
6	Ricky and Cynthia Spivey	611 Mt. Olive Road Windsor, N.C. 27983

Permit Drawing
Sheet 12 of 13

NCDOT

DIVISION OF HIGHWAYS
BERTIE COUNTY

REPLACE BRG[#]51 OVER
THE CASHIE RIVER ON US 13

SHEET

OF

07 / 24 / 12

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)
	13+30-L- to 23+50-L-		0.67				0.33					
TOTALS:			0.67				0.33					

TOTAL IMPACTS FROM PIERS ARE LESS THAN .01 AC.
 0.06 acres of Temporary Fill in Wetlands in the Hand Clearing areas for Erosion Control measures

Permit Drawing
 Sheet 13 of 13

NC DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAYS

 BERTIE COUNTY
 WBS - 42264.1.1 (B-5122)

DIVISION OF HIGHWAYS
 PEA-OFFICE OF NATURAL ENVIRONMENT

JAN 22 2013

B-5122 NEU ENVIRONMENTAL PERMIT NARRATIVE

Town of Windsor – 6 inch force sewer main: The 6" force sewer main (Force Sanitary Sewer; 6" FSS) will be directionally bored outside of wetland boundaries on the south end of the project but will require open trenching (excavation of 4 foot trench) and hand clearing within wetland boundaries from approximately L-18+12 to L-19+14. Some of these impacts will occur in an area to be permitted for Fill due to the roadway/bridge facility, therefore they are not listed within the Utility Wetland Impact Summary Sheet. Contact: Mr. William Coburn – Public Works Director (water/sewer/power); Town of Windsor; P. O. Box 508; Windsor, NC 27983; office: 252-794-3121; cell: 252-724-0125.

Town of Askewville – 8 inch force sewer main: The 8" force sewer main (Force Sanitary Sewer; 8" FSS) will be directionally bored outside of wetland boundaries on the south end of the project but will require open trenching (excavation of 4 foot trench) and fill in the wetland within wetland boundaries from approximately L-18+06 to L-18+54. These impacts will occur in an area to be permitted for Fill due to the roadway/bridge facility, therefore they are not listed within the Utility Wetland Impact Summary Sheet. Contact: Town of Askewville; P. O. Box 655; Windsor, NC 27983-0655; Phone: 252-794-2553.

Century Link Telephone: The telephone line and multiuse poles will be relocated to the east side of the road within wetland boundaries. The poles are currently within wetland boundaries on the west side of the road. The two existing poles on the northern end of the project are within areas to be permitted for Fill due to the roadway facility. The existing pole on the southern end of the project will be removed with equipment staged in the area to be filled for the proposed bridge facility. The proposed multiuse poles will produce fill in the wetland and the area will be hand cleared for the overhead lines from L-18+91 to L-19+35 and L-13+48 to L-15+08. Contact: Mrs. Cecelia Price; CenturyLink; 1528 Brimley Drive; Greenville, NC 27834; Phone: 252-321-9401.

Piedmont Natural Gas – 12 inch gas line: The 12" gas line will be directionally bored outside of wetland boundaries on the south end of the project but will require open trenching (excavation of 4 foot trench) within wetland boundaries from approximately L-18+37 to L-19+47. Hand clearing will precede the excavation from approximately L-18+37 to L-19+47. These areas will be permitted by NCDOT Hydraulics. The remainder of wetland impacts associated with the gas line will be within areas to be permitted for Fill due to the roadway/bridge facility. Contact: Mr. John Hughes; Piedmont Natural Gas; 410 Dowd Street; Tarboro, NC 27886; Phone: 252-641-8411.

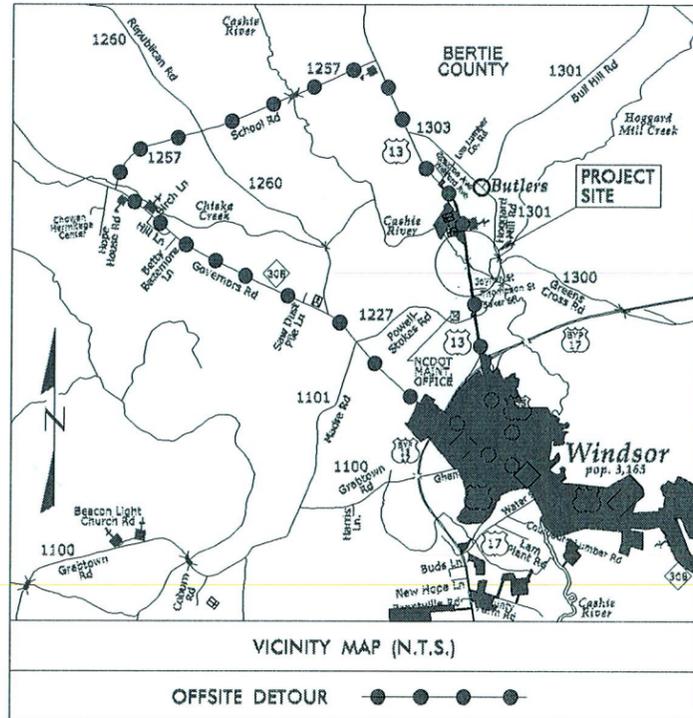
Bertie County – 8 inch water line – The 8" water line will be directionally bored outside the wetland boundaries on the southeast side of the project but will require open trenching (excavation of a 4 foot trench) from approximately L-12+16 to L-12+35 and L-20+43 to L-20+81 on the east side of the project. The open trenching is outside the wetland and will not impact the wetlands. Contact: Mr. Ricky Spivey Public Works Director Bertie County Water P.O. Box 487 Windsor, N.C. 27983 office 252-724-1671.

09/08/19

See Sheet 1-A For Index of Sheets
See Sheet 1-B For Symbology

T.I.P. NO.	SHEET NO.
B-5122	UC-1

TIP PROJECT: B-5122



ROW PLANS

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

NEU

UTILITY RELOCATION PLANS

BERTIE COUNTY

NEU
UTILITY RELOCATION PLANS

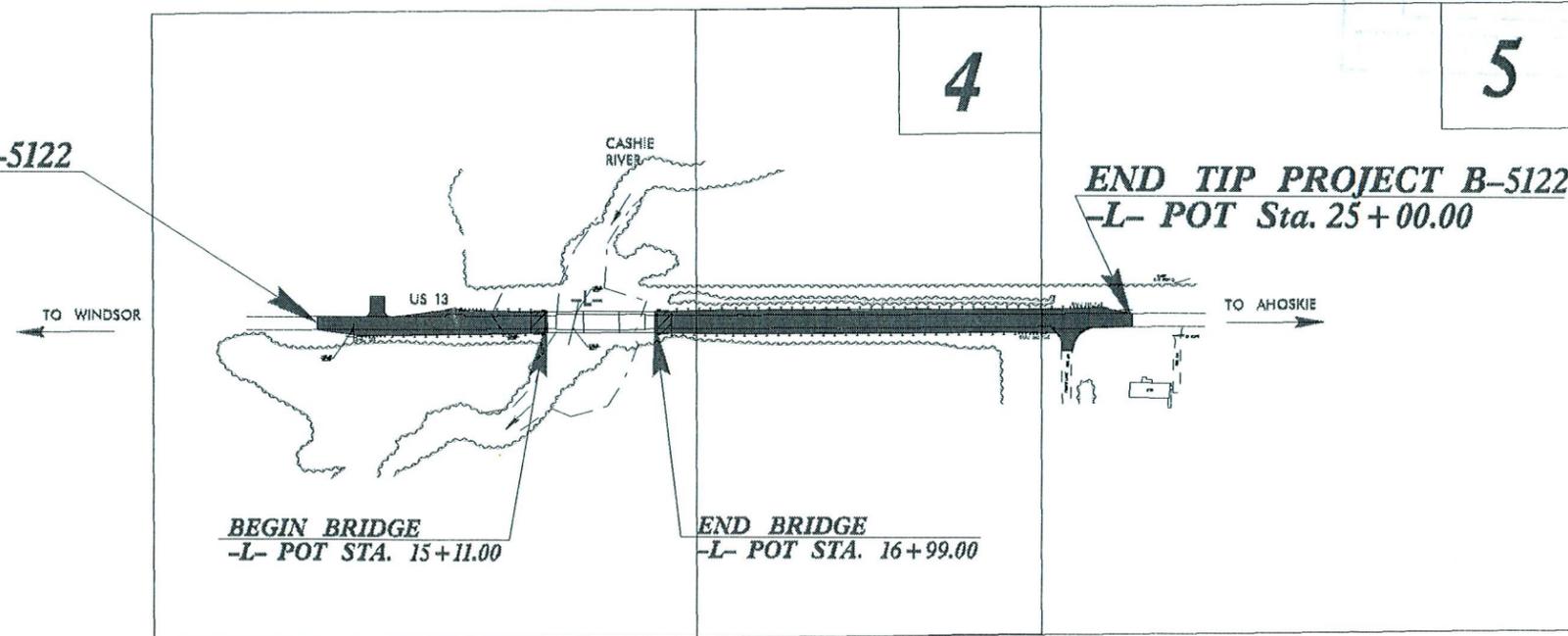
LOCATION: BRIDGE 51 OVER CASHIE RIVER ON US 13

Utility Permit Drawing
Sheet 1 of 19

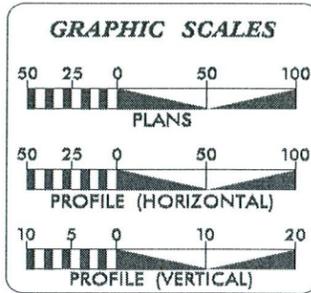
**TYPE OF WORK: RELOCATION OF GAS, WATER,
FORCE MAIN AND TELEPHONE LINES**

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-L- POT Sta. 11+25.00

END TIP PROJECT B-5122
-L- POT Sta. 25+00.00

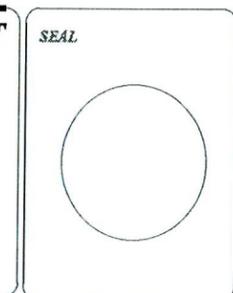


PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION



INDEX OF SHEETS	
SHEET NO.	DESCRIPTION
U-1	TITLE SHEET
U-2	UTILITY CONSTRUCTION PLAN SHEETS
U-3 THRU U-11	PROFILE SHEET(S)

WATER AND SEWER OWNERS ON PROJECT	
(1)	TOWN OF WINDSOR WATER
(2)	BERTIE COUNTY WATER
(3)	TOWN OF WINDSOR SEWER
(4)	TOWN OF ASKEVILLE SEWER



PREPARED IN THE OFFICE OF:
DIVISION OF HIGHWAYS
UTILITIES ENGINEERING SECTION

1501 MAIL SERVICES CENTER
RALEIGH, NC 27695-1591
PHONE (919) 107-6600
FAX (919) 250-4151

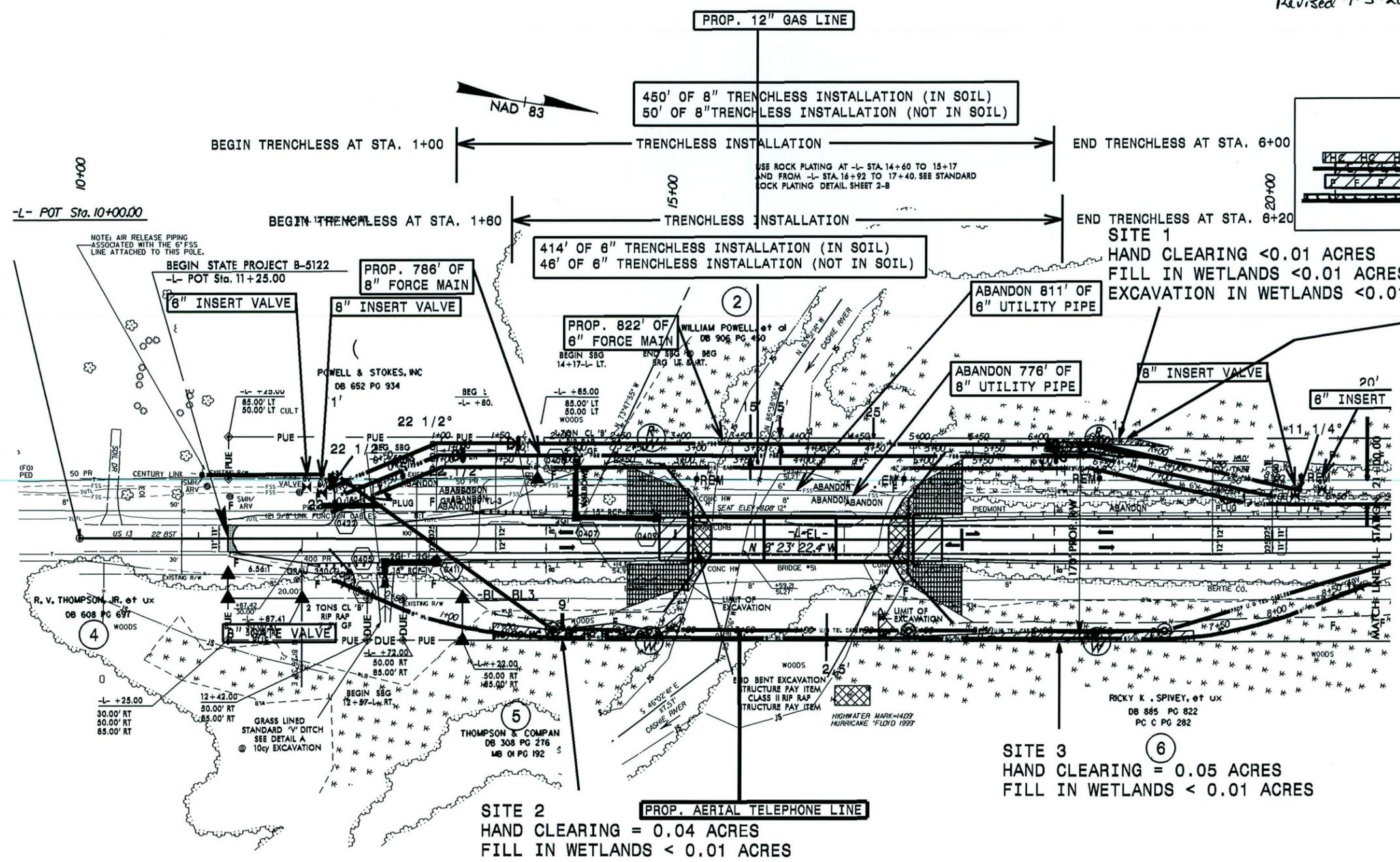
Roger Worthington, P.E. UTILITIES SECTION ENGINEER
Corey Bousquet, P.E. UTILITIES SQUAD LEADER PROJECT ENGINEER
Kalvin Martin UTILITIES PROJECT DESIGNER

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DESIGNED BY: KSM	
DRAWN BY: KSM	
CHECKED BY: CDB	
APPROVED BY: CDB	
REVISED:	
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION	
UTILITIES ENGINEERING SEC. PHONE: (919) 707-8690	
UTILITY CONSTRUCTION PLANS ONLY	

Utility Permit Drawing
 Sheet 2 of 19
 Revised 4-3-2013

UTILITY CONSTRUCTION



NEU
 UTILITY RELOCATION
 PLANS



- DENOTES EXCAVATION IN WETLAND
- DENOTES HAND CLEARING
- DENOTES FILL IN WETLAND

PRELIMINARY PLANS
 DO NOT USE FOR CONSTRUCTION

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 5/14/09

5/14/99

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DRAWN BY: KSM	
CHECKED BY: CDB	
APPROVED BY: CDB	
REVISED:	
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION	
UTILITIES ENGINEERING SEC. PHONE: (919)707-6690 FAX: (919)250-4151	UTILITY CONSTRUCTION PLANS ONLY

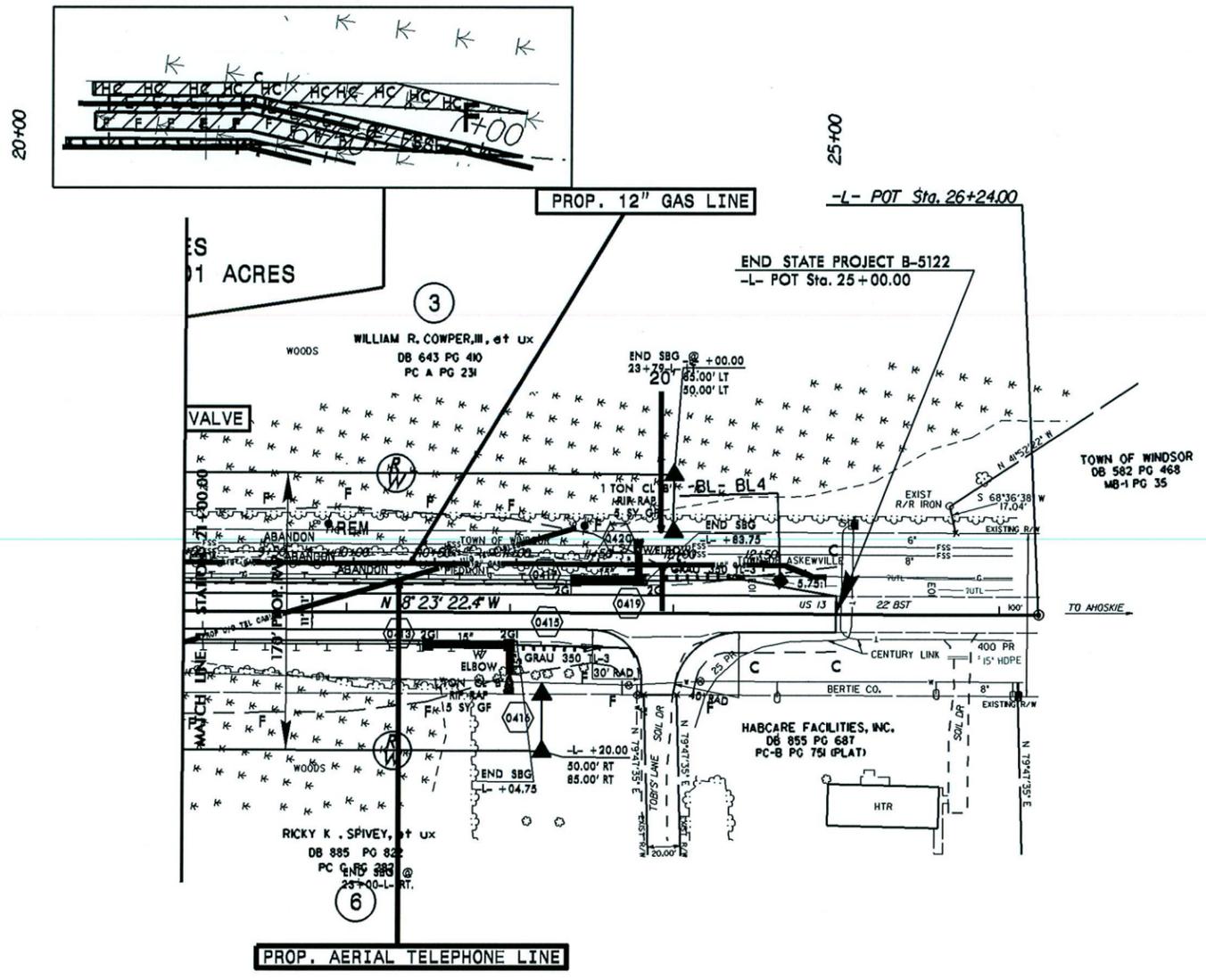
Utility Permit Drawing
Sheet 3 of 19
Revised 4-3-2013

NC GRID
NAD 83 (CORS 96)

PHONE: (919)707-6690
FAX: (919)250-4151

UTILITY CONSTRUCTION

NEU
UTILITY RELOCATION
PLANS



PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION

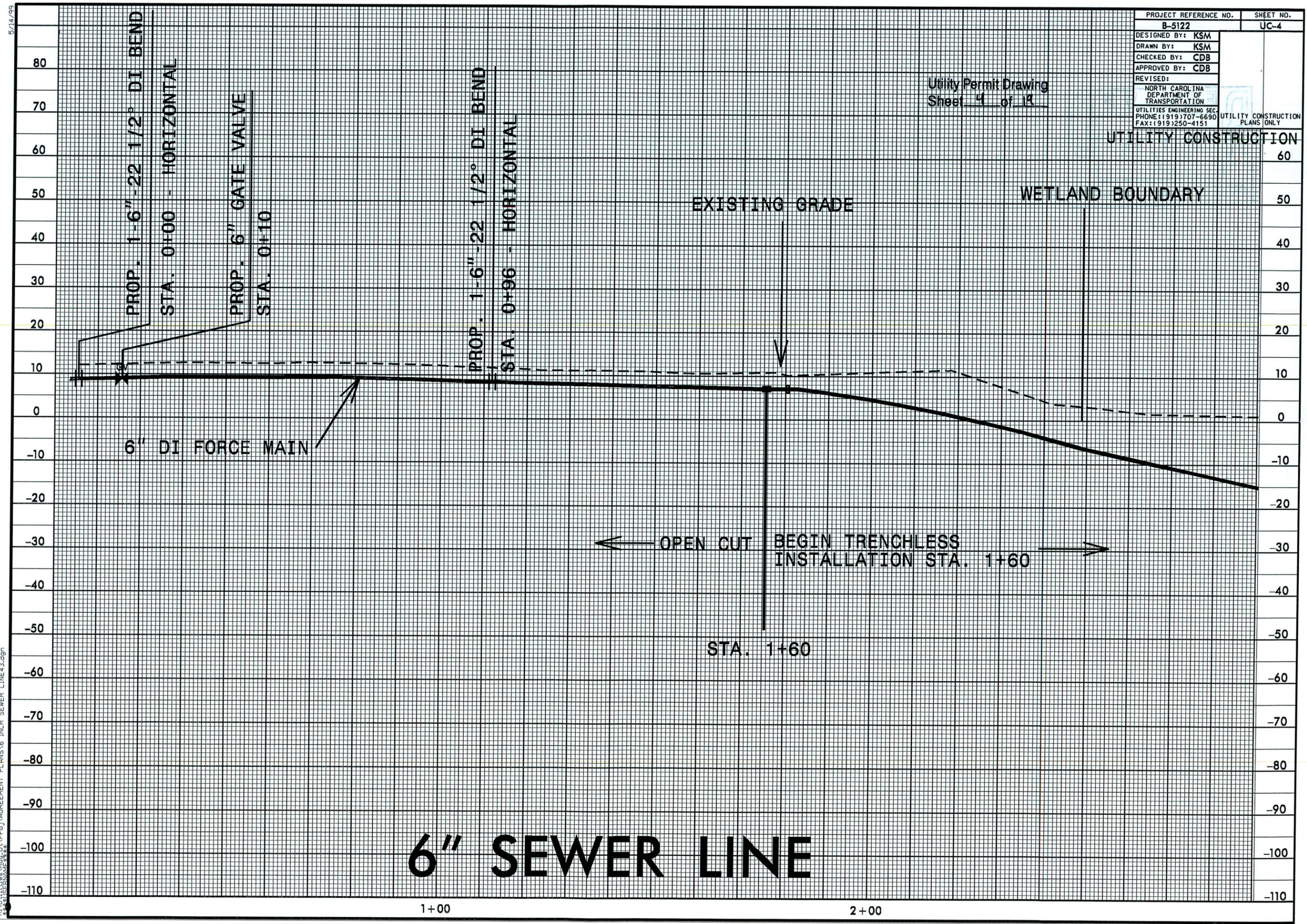
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5/14/99

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DRAWN BY: KSM	
CHECKED BY: CDB	
APPROVED BY: CDB	
REVISED:	
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION	
UTILITIES ENGINEERING SEC. PHONE: (919)707-6690 FAX: (919)250-4151	UTILITY CONSTRUCTION PLANS ONLY

Utility Permit Drawing
Sheet 4 of 13

UTILITY CONSTRUCTION
60



PROP. 1-6"-22 1/2° DI BEND
STA. 0+00 - HORIZONTAL

PROP. 6" GATE VALVE
STA. 0+10

PROP. 1-6"-22 1/2° DI BEND
STA. 0+96 - HORIZONTAL

EXISTING GRADE

WETLAND BOUNDARY

6" DI FORCE MAIN

← OPEN CUT BEGIN TRENCHLESS
INSTALLATION STA. 1+60 →

STA. 1+60

6" SEWER LINE

1+00

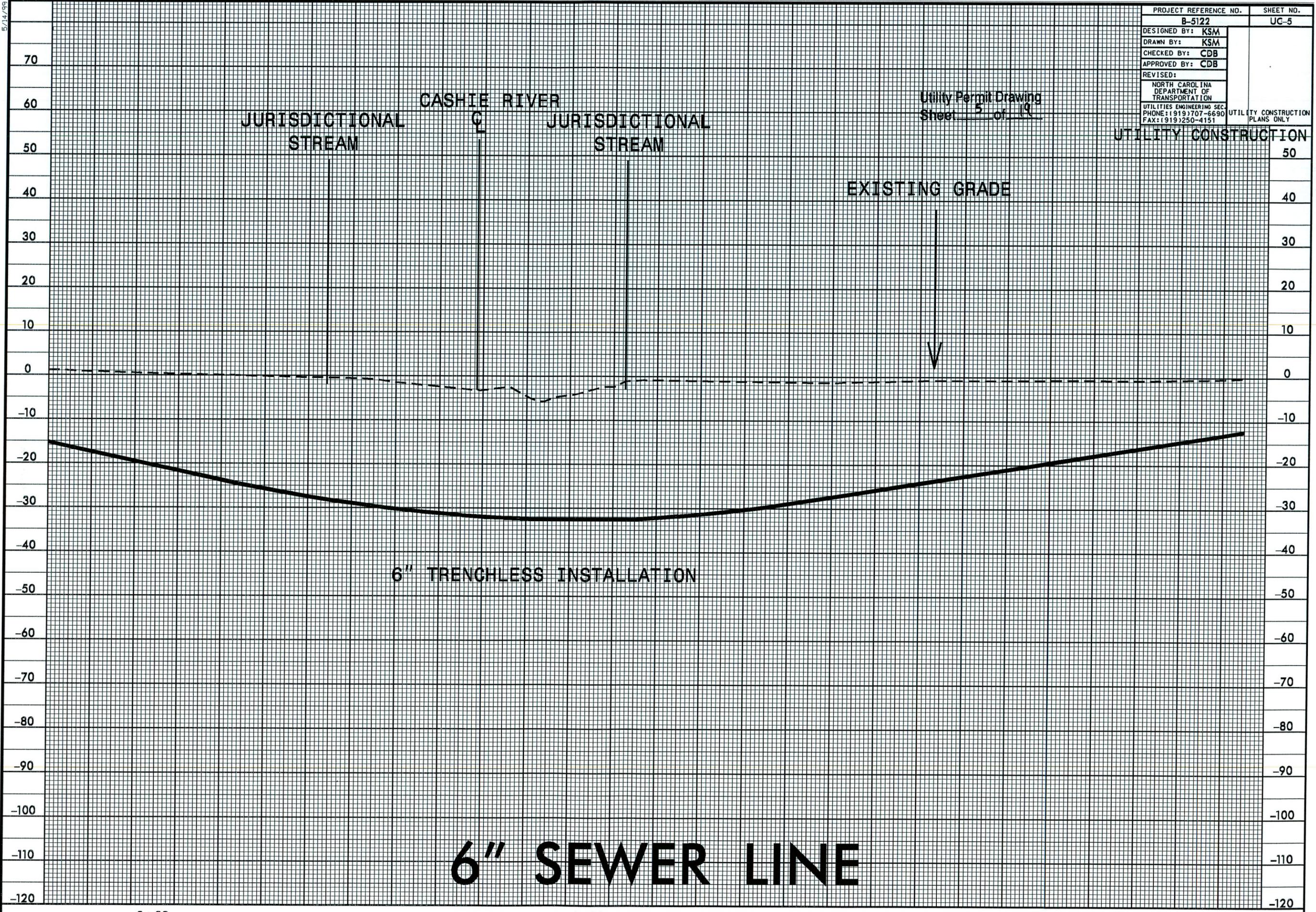
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5/14/99

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DRAWN BY:	KSM		
CHECKED BY:	CDB		
APPROVED BY:	CDB		
REVISED:			
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION		UTILITY CONSTRUCTION PLANS ONLY	
UTILITIES ENGINEERING SEC.		PHONE: (919) 707-6690	
FAX: (919) 250-4151			

Utility Permit Drawing
Sheet 5 of 19



JURISDICTIONAL
STREAM

CASHIE RIVER

JURISDICTIONAL
STREAM

EXISTING GRADE

UTILITY CONSTRUCTION

6" TRENCHLESS INSTALLATION

6" SEWER LINE

3+00

4+00

5+00

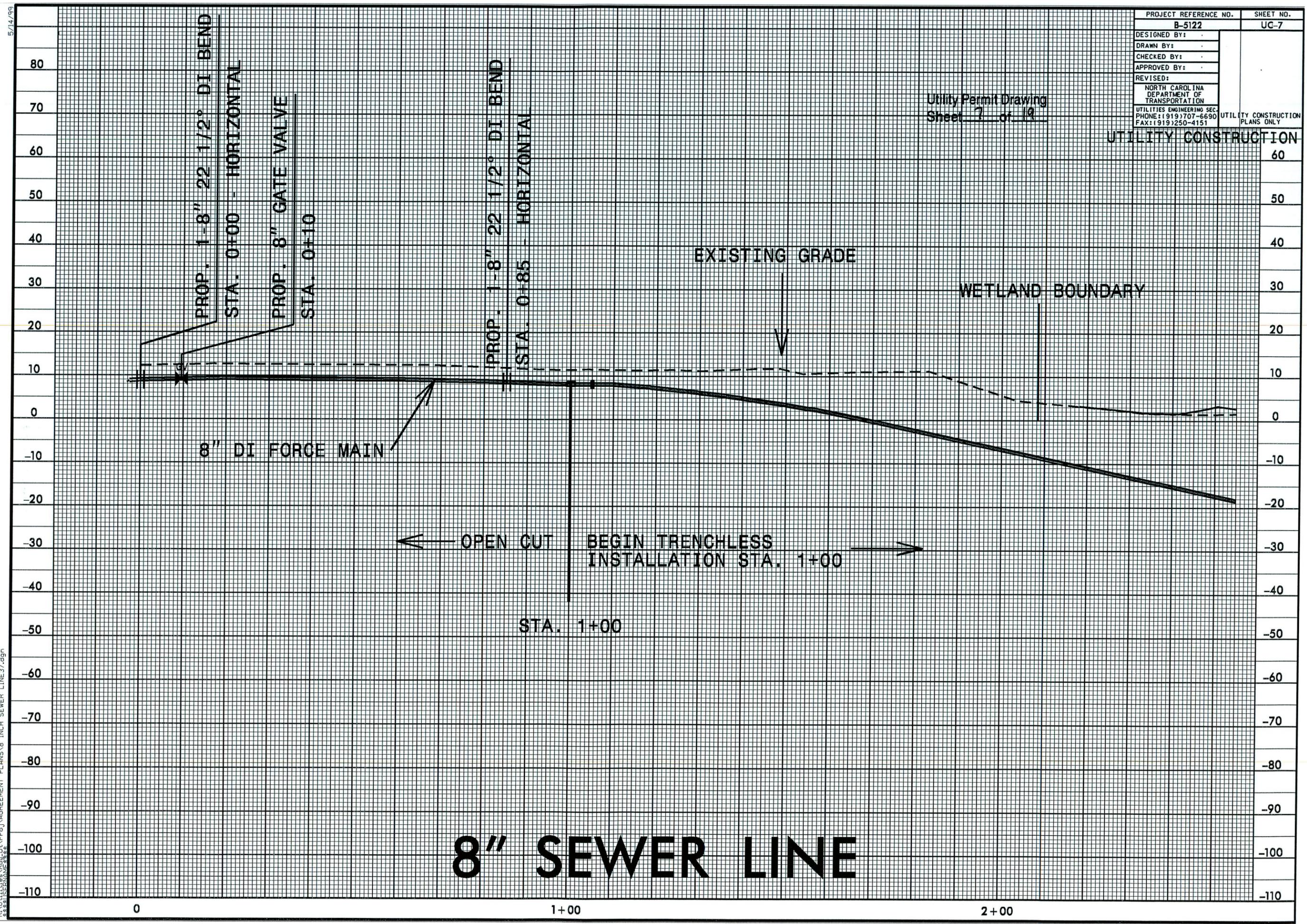
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5/14/99

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DESIGNED BY:	
DRAWN BY:	
CHECKED BY:	
APPROVED BY:	
REVISED:	
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION	
UTILITIES ENGINEERING SEC.	
PHONE: (919) 707-6690	
FAX: (919) 250-4151	
UTILITY CONSTRUCTION PLANS ONLY	

Utility Permit Drawing
Sheet 7 of 19

UTILITY CONSTRUCTION



PROP. 1-8" 22 1/2° DI BEND
STA. 0+00 - HORIZONTAL

PROP. 8" GATE VALVE
STA. 0+10

PROP. 1-8" 22 1/2° DI BEND
STA. 0+85 - HORIZONTAL

8" DI FORCE MAIN

EXISTING GRADE

WETLAND BOUNDARY

← OPEN CUT

BEGIN TRENCHLESS
INSTALLATION STA. 1+00 →

STA. 1+00

8" SEWER LINE

0

1+00

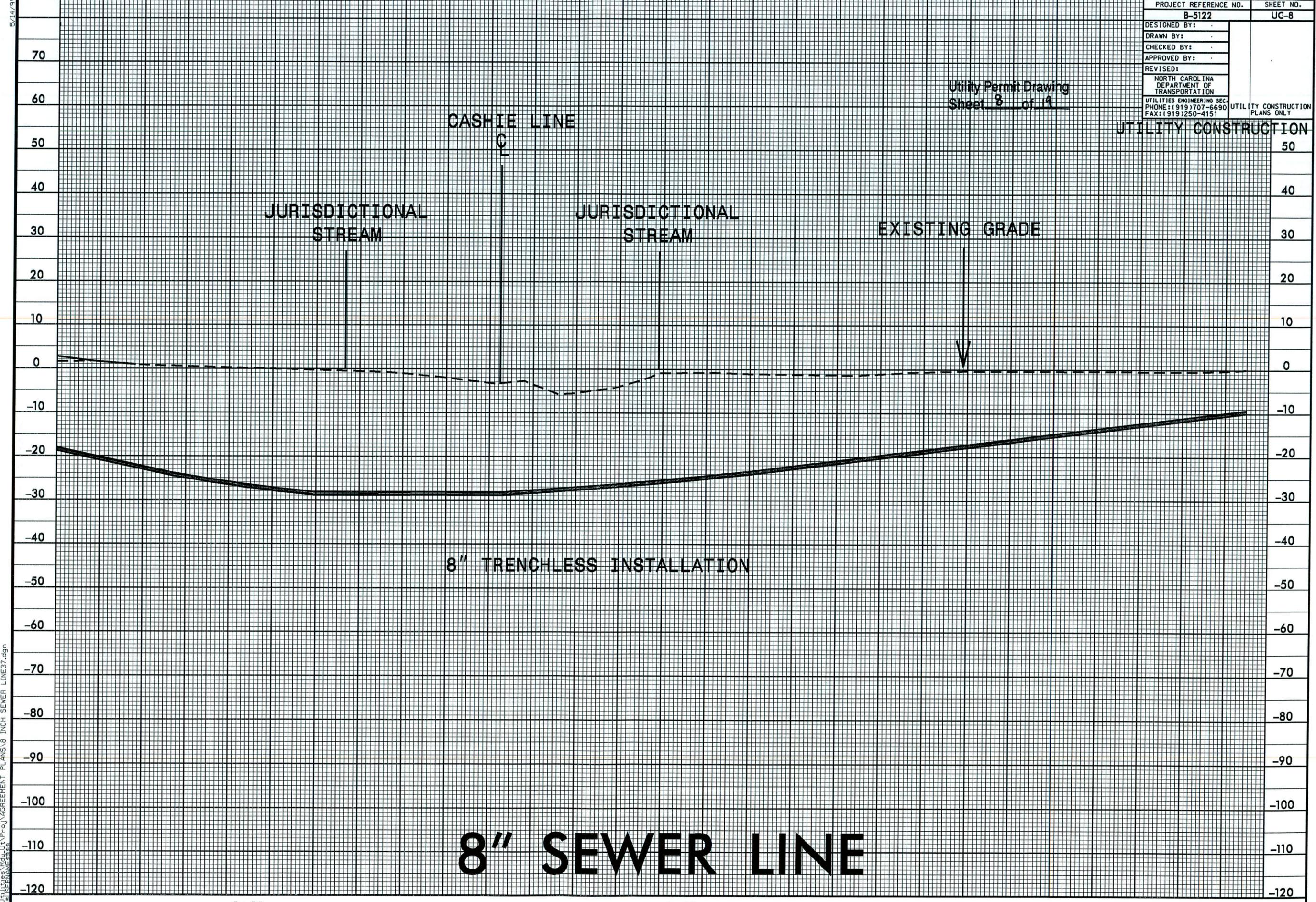
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5/14/99

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DRAWN BY:			
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REVISED:			
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION		UTILITY CONSTRUCTION PLANS ONLY	
UTILITIES ENGINEERING SEC. PHONE: (919) 707-6690 FAX: (919) 250-4151			

Utility Permit Drawing
Sheet 8 of 13



JURISDICTIONAL
STREAM

CASHIE LINE

JURISDICTIONAL
STREAM

EXISTING GRADE

8" TRENCHLESS INSTALLATION

8" SEWER LINE

3+00

4+00

5+00

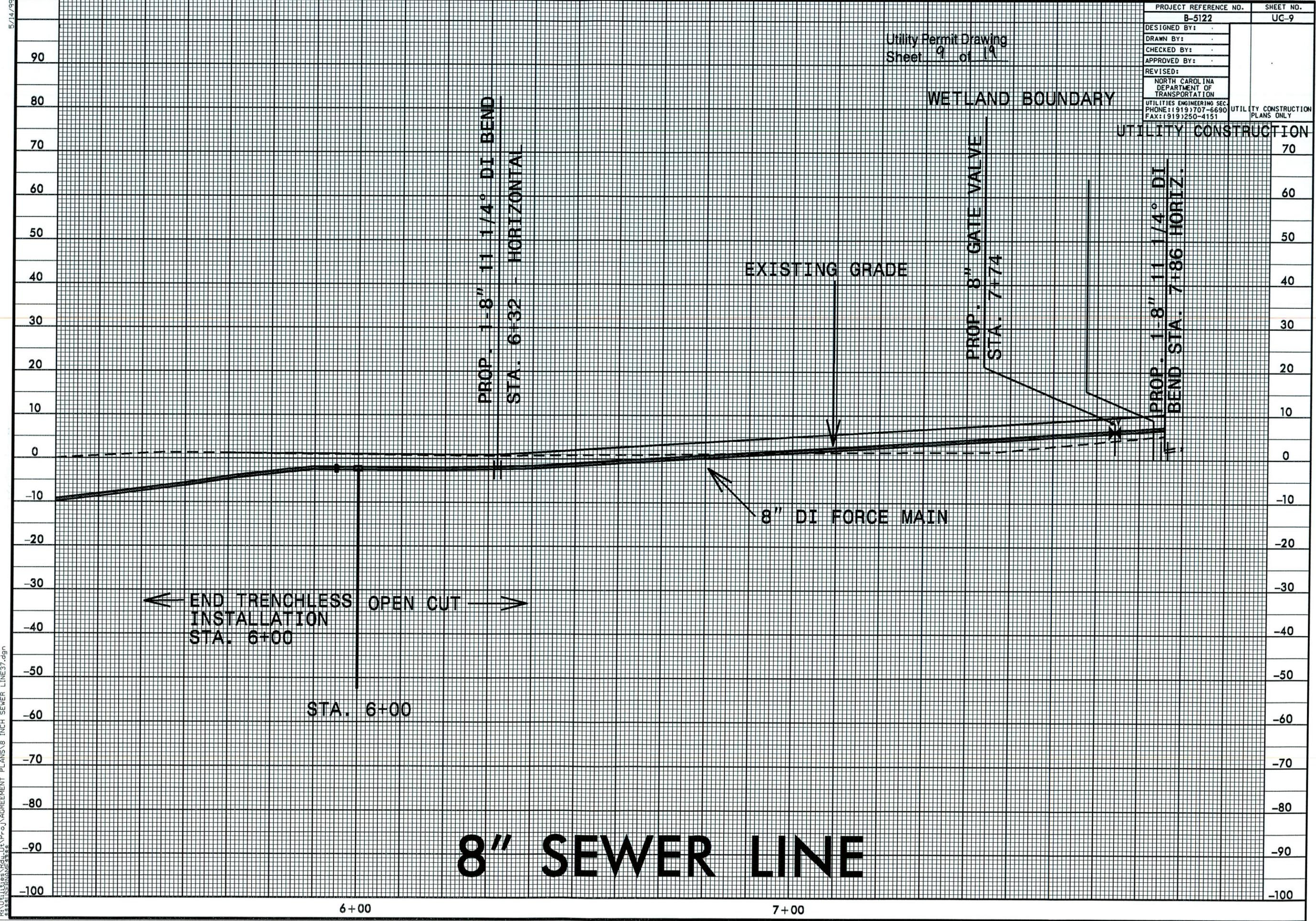
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Utility Permit Drawing
Sheet 9 of 19

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B-5122	UC-9
DESIGNED BY:	
DRAWN BY:	
CHECKED BY:	
APPROVED BY:	
REVISED:	
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION	
UTILITIES ENGINEERING SEC. PHONE: (919) 707-6690 FAX: (919) 250-4151	
UTILITY CONSTRUCTION PLANS ONLY	



8" SEWER LINE

WETLAND BOUNDARY

UTILITY CONSTRUCTION

EXISTING GRADE

8" DI FORCE MAIN

PROP. 1-8" 11 1/4° DI BEND
STA. 6+32 - HORIZONTAL

PROP. 8" GATE VALVE
STA. 7+74

PROP. 1-8" 11 1/4° DI
BEND STA. 7+86 HORIZ.

← END TRENCHLESS
INSTALLATION
STA. 6+00

OPEN CUT →

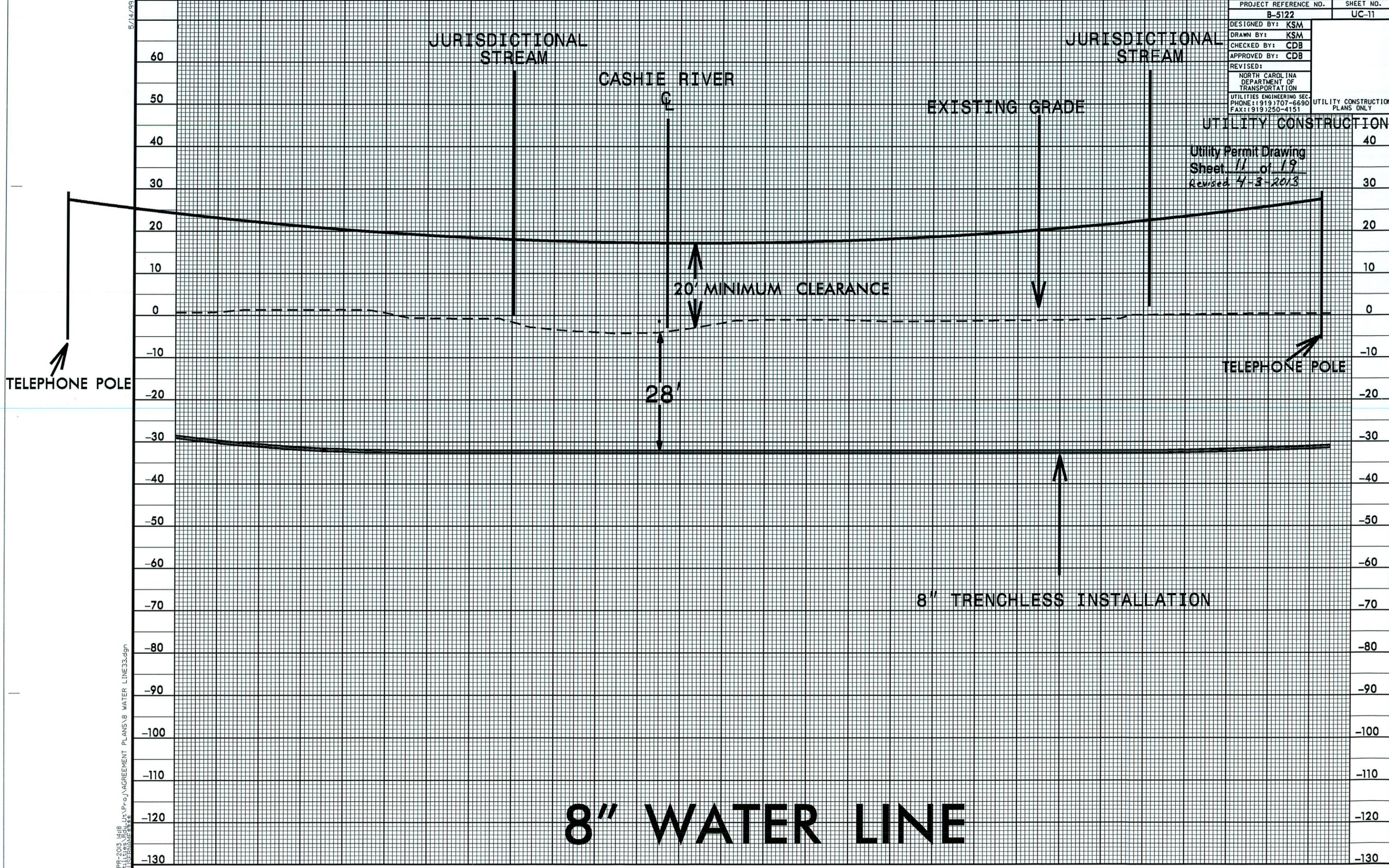
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6+00

7+00

5/14/99

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DRAWN BY: KSM	
CHECKED BY: CDB	
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REVISED:	
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION	
UTILITIES ENGINEERING SEC. PHONE: (919) 707-6690 FAX: (919) 250-4151	
UTILITY CONSTRUCTION PLANS ONLY	



TELEPHONE POLE

TELEPHONE POLE

JURISDICTIONAL STREAM

JURISDICTIONAL STREAM

CASHIE RIVER

EXISTING GRADE

UTILITY CONSTRUCTION

20' MINIMUM CLEARANCE

28'

8" TRENCHLESS INSTALLATION

8" WATER LINE

3+00

4+00

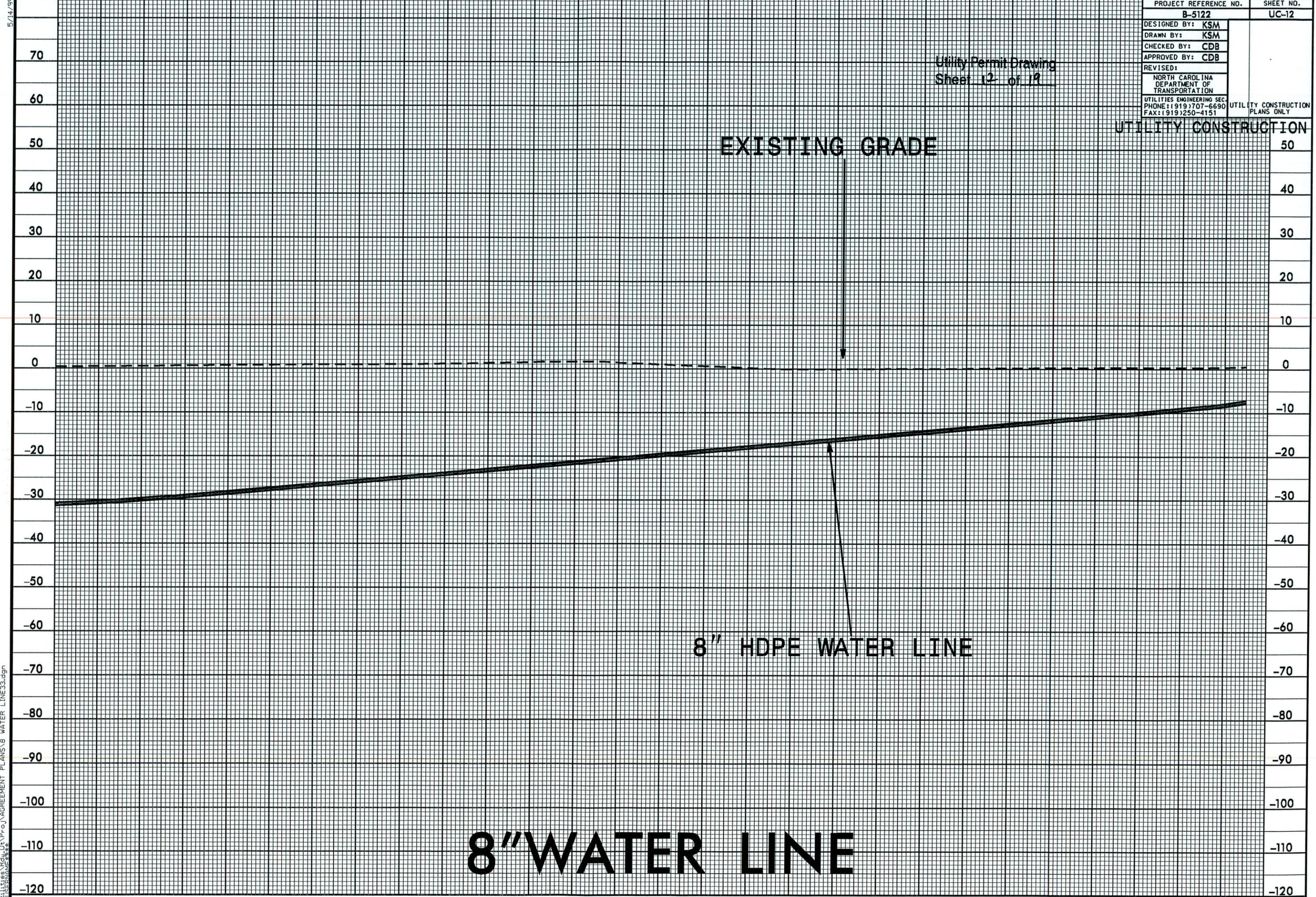
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Utility Permit Drawing
Sheet 11 of 19
Revised 4-3-2013

5/14/99

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DESIGNED BY:	KSM		
DRAWN BY:	KSM		
CHECKED BY:	CDB		
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REVISED:			
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION			
UTILITIES ENGINEERING SEC. PHONE: (919) 707-6690		UTILITY CONSTRUCTION PLANS ONLY	
FAX: (919) 250-4151			

Utility Permit Drawing
Sheet 12 of 19



EXISTING GRADE

UTILITY CONSTRUCTION

8" HDPE WATER LINE

8" WATER LINE

5+00

6+00

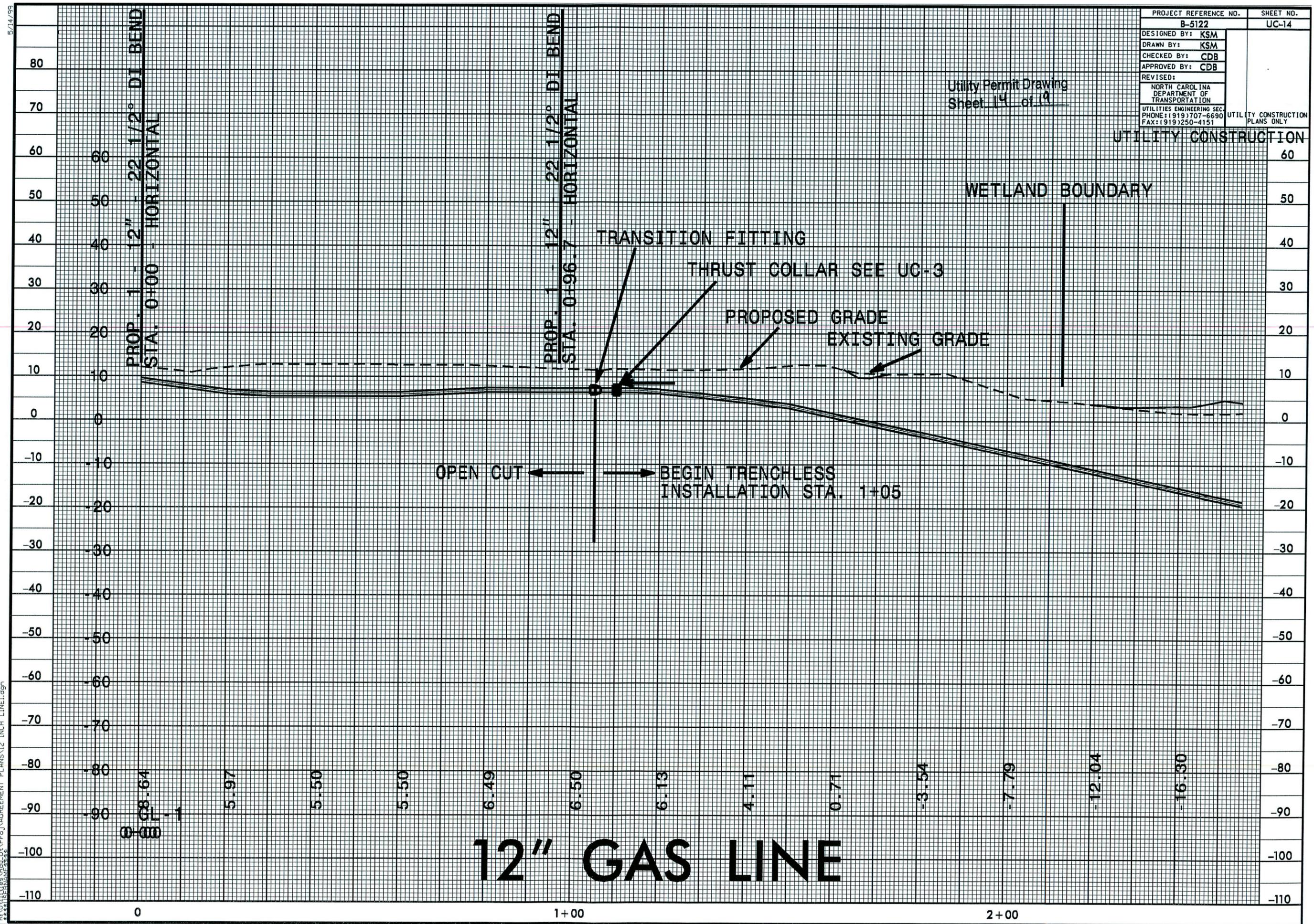
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NORTH CAROLINA DEPARTMENT OF TRANSPORTATION		UTILITY CONSTRUCTION PLANS ONLY	
UTILITIES ENGINEERING SEC. PHONE: (919) 707-6690 FAX: (919) 250-4151			

Utility Permit Drawing
Sheet 14 of 19

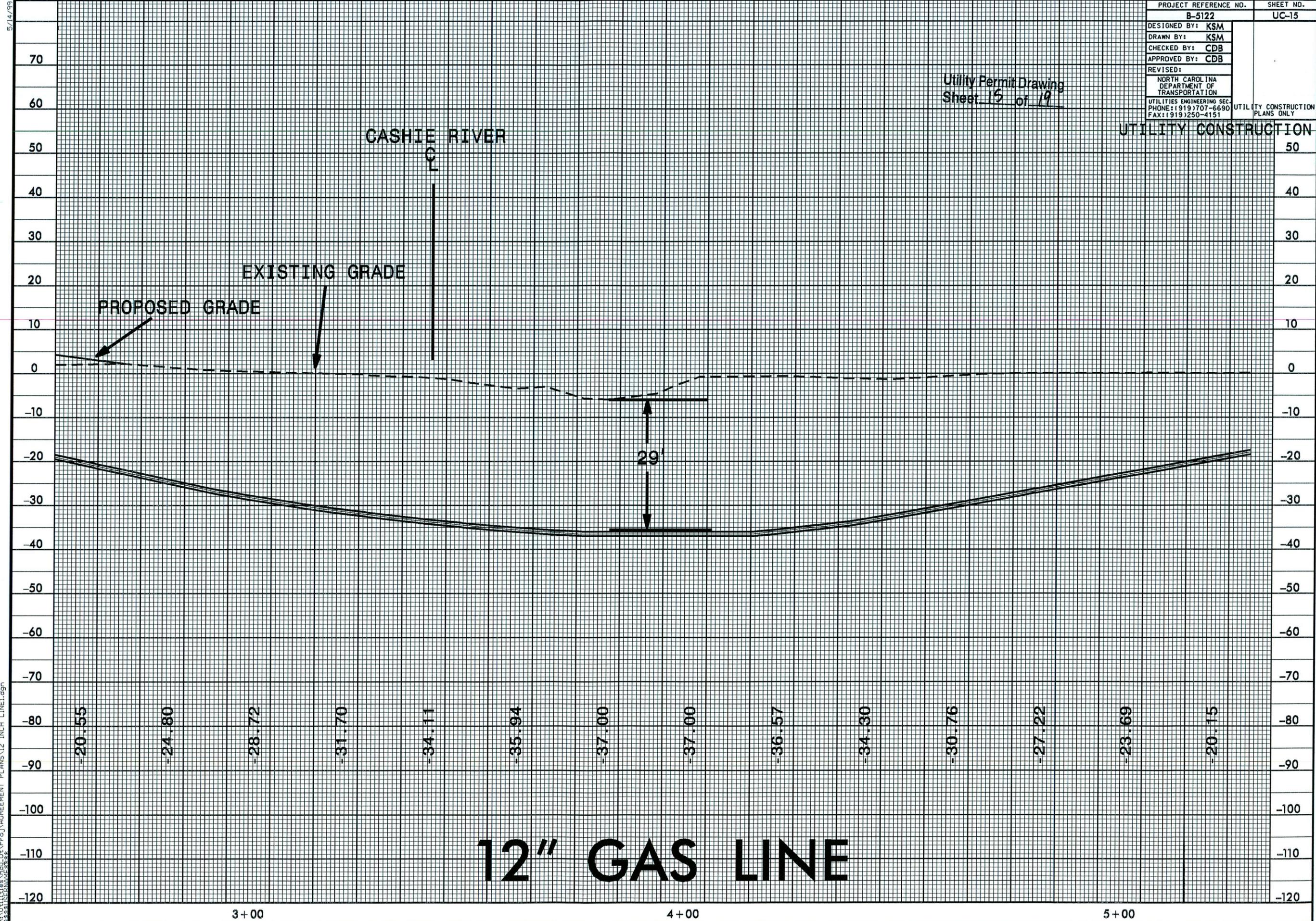


12" GAS LINE

5/14/99

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B-5122	UC-15
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DRAWN BY: KSM	
CHECKED BY: CDB	
APPROVED BY: CDB	
REVISED:	
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION	
UTILITIES ENGINEERING SEC. PHONE: (919) 707-6690 FAX: (919) 250-4151	UTILITY CONSTRUCTION PLANS ONLY

Utility Permit Drawing
Sheet 15 of 19

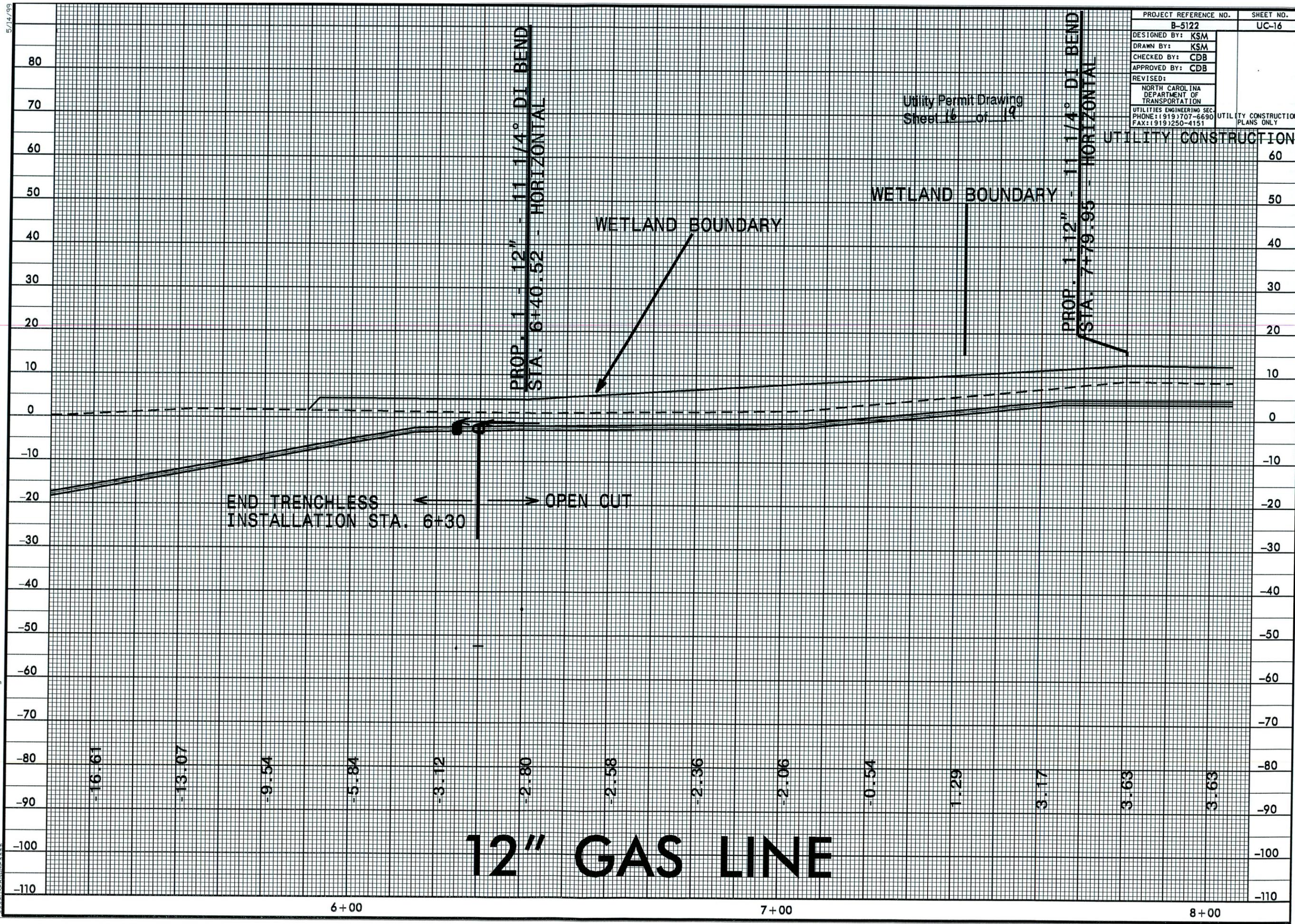


12" GAS LINE

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5/14/99

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Utility Permit Drawing
Sheet 16 of 19

PROJECT REFERENCE NO.	B-5122	SHEET NO.	UC-16
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DRAWN BY:	KSM		
CHECKED BY:	CDB		
APPROVED BY:	CDB		
REVISED:			
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION		UTILITY CONSTRUCTION PLANS ONLY	
UTILITIES ENGINEERING SEC. PHONE: (919) 707-6690 FAX: (919) 250-4151			

UTILITY CONSTRUCTION

60

50

40

30

20

10

0

-10

-20

-30

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-60

-70

-80

-90

-100

-110

6+00

7+00

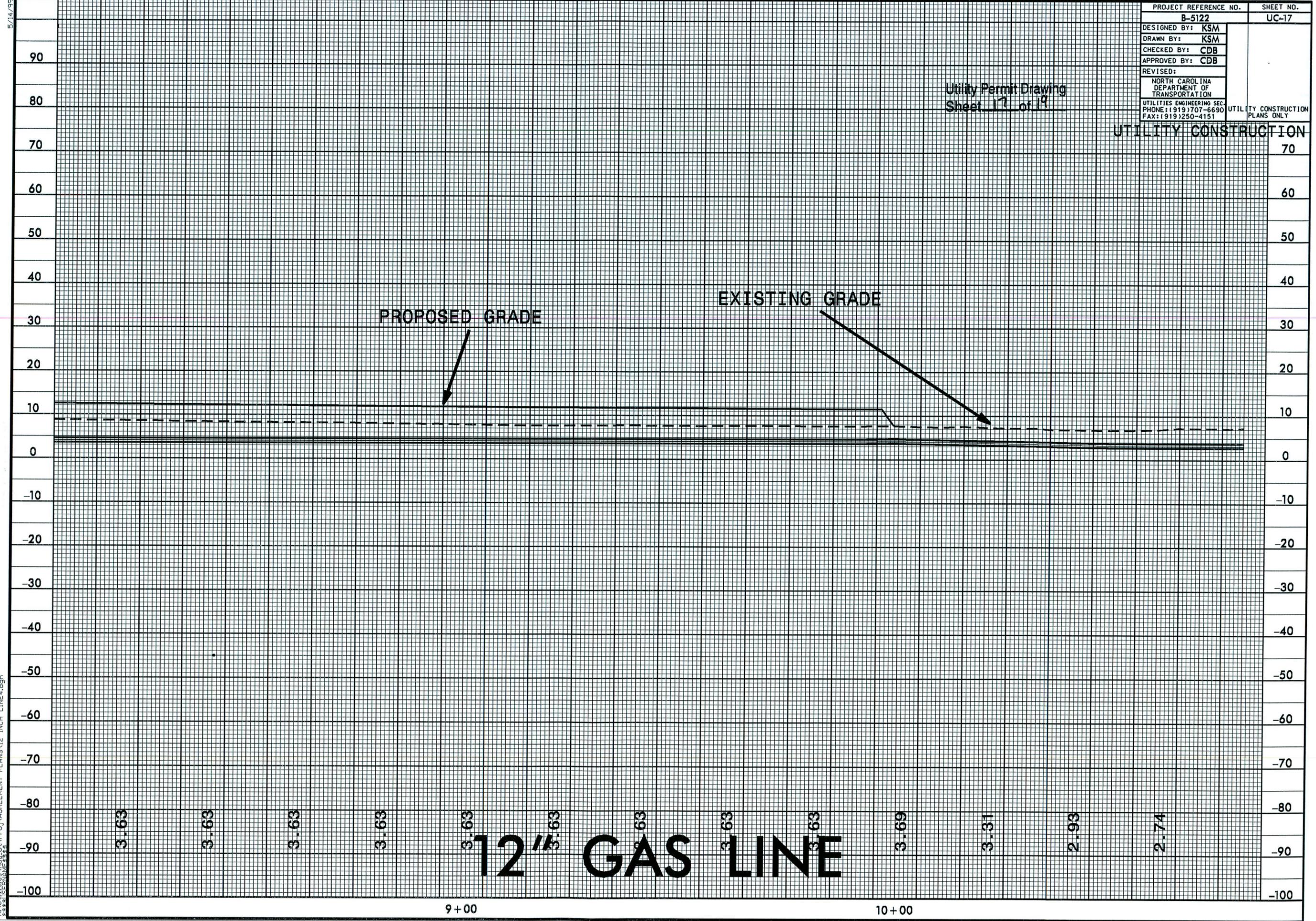
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12" GAS LINE

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DRAWN BY:	KSM		
CHECKED BY:	CDB		
APPROVED BY:	CDB		
REVISED:			
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION		UTILITY CONSTRUCTION PLANS ONLY	
UTILITIES ENGINEERING SEC. PHONE: (919) 707-6690 FAX: (919) 250-4151			

Utility Permit Drawing
Sheet 17 of 19

UTILITY CONSTRUCTION



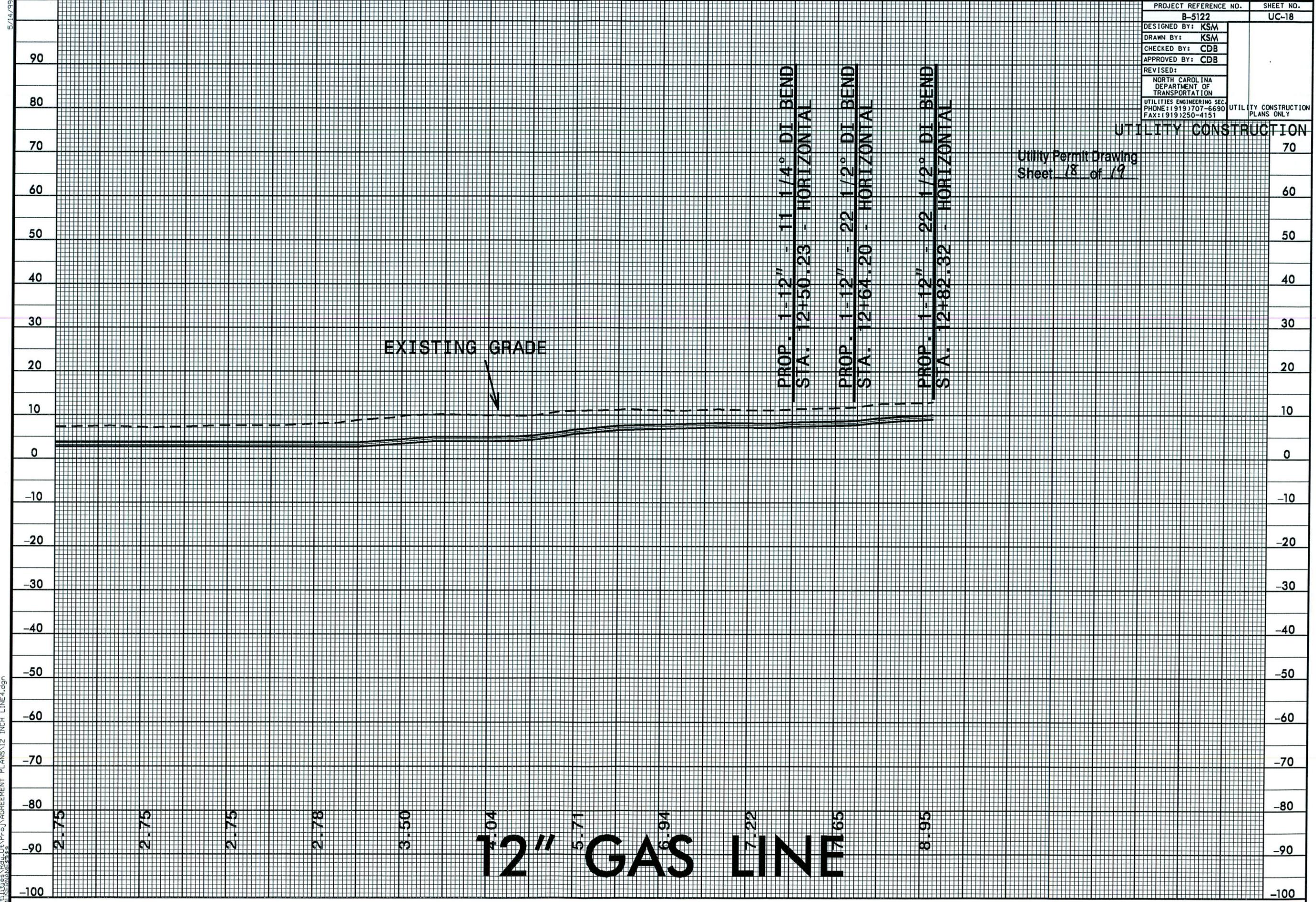
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5/14/99

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DRAWN BY:	KSM		
CHECKED BY:	CDB		
APPROVED BY:	CDB		
REVISED:			
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION		UTILITY CONSTRUCTION PLANS ONLY	
UTILITIES ENGINEERING SEC. PHONE: (919) 707-6690 FAX: (919) 250-4151			

UTILITY CONSTRUCTION

Utility Permit Drawing
Sheet 18 of 19



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5/14/99

11+00

12+00

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	18+12 to 19+14	Sewer Lines	<0.01		<0.01		<0.01					
2	13+48 to 15+08	Multiuse Phone Pole	<0.01				0.04					
3	16+71 to 19+35	Multiuse Phone Pole	<0.01				0.05					
TOTALS:			<0.02		<0.01		0.10					

Note:

Utility Permit Drawing
 Sheet 19 of 19

NC DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAYS

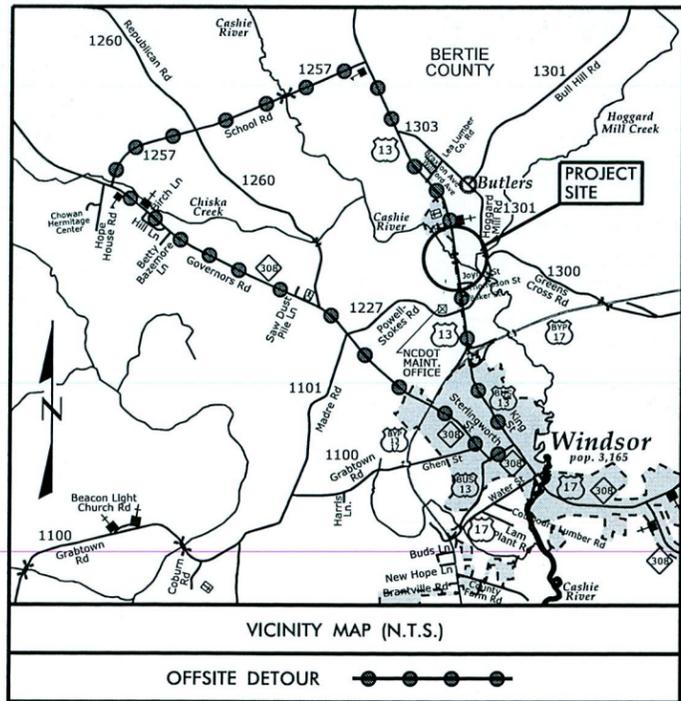
 BERTIE COUNTY
 WBS - 42264.1.1 (B-5122)

 SHEET 1 OF 1 11/15/2012

09/08/13

TIP PROJECT: B-5122

See Sheet 1-A For Index of Sheets
See Sheet 1-B For Symbology



ROW PLANS

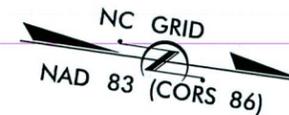
STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

BERTIE COUNTY

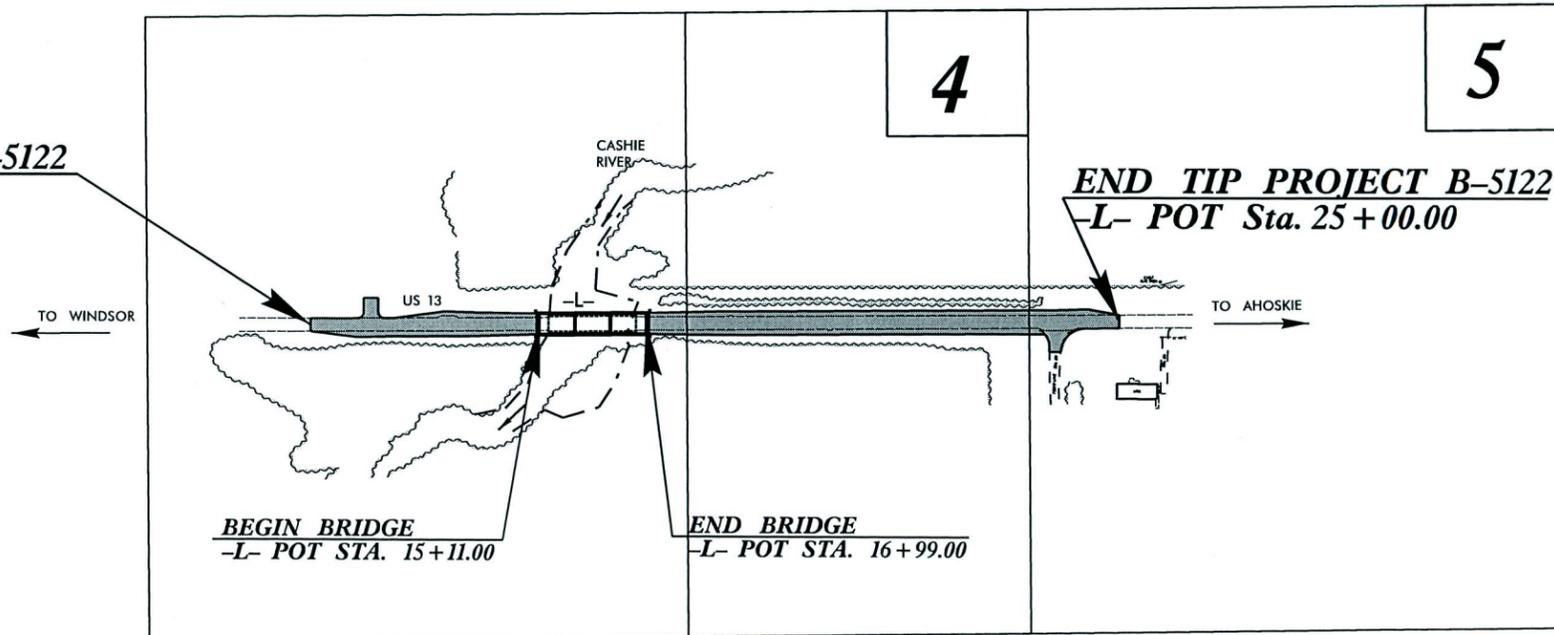
LOCATION: BRIDGE NO. 51, OVER THE CASHIE RIVER, ON US 13
TYPE OF WORK: GRADING, DRAINAGE, PAVING, & STRUCTURE.

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	B-5122	1	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	
42264.1.1	BRNHS-13(24)	PE	
42264.2.1	BRNHS-13(24)	RW & UTIL	

PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION



BEGIN TIP PROJECT B-5122
-L- POT Sta. 11+25.00



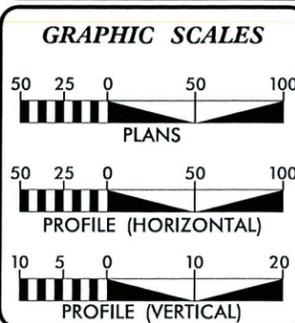
END TIP PROJECT B-5122
-L- POT Sta. 25+00.00

BEGIN BRIDGE
-L- POT STA. 15+11.00

END BRIDGE
-L- POT STA. 16+99.00

CLEARING ON THIS PROJECT SHALL BE PERFORMED TO THE LIMITS ESTABLISHED BY METHOD III.
THIS PROJECT IS WITHIN THE MUNICIPAL BOUNDARIES OF THE TOWN OF WINDSOR.

CONTRACT: C203025



DESIGN DATA

ADT 2012	= 7,885
ADT 2032	= 13,115
DHV	= 11 %
D	= 55 %
T	= 12 % *
V	= 60 MPH
* (TTST 5% + DUALS 7%)	
FUNC. CLASS.	= MINOR ART.
TIER CLASS.	= STATEWIDE

PROJECT LENGTH

LENGTH ROADWAY TIP PROJECT B-5122	= 0.226 mile
LENGTH STRUCTURE TIP PROJECT B-5122	= 0.036 mile
TOTAL LENGTH TIP PROJECT B-5122	= 0.296 mile

Prepared in the Office of:
DIVISION OF HIGHWAYS
1000 Birch Ridge Dr., Raleigh NC, 27610

2012 STANDARD SPECIFICATIONS	BRENDA MOORE, PE PROJECT ENGINEER
RIGHT OF WAY DATE: NOVEMBER 30, 2011	TATIA L. WHITE, PE PROJECT DESIGN ENGINEER
LETTING DATE: JUNE 18, 2013	

HYDRAULICS ENGINEER

SIGNATURE: _____ P.E.

ROADWAY DESIGN ENGINEER

SIGNATURE: _____ P.E.

DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA

STATE HIGHWAY DESIGN ENGINEER P.E.

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\$\$\$\$\$USERNAME\$\$\$\$\$

04/16/11

Note: Not to Scale

*S.U.E. = Subsurface Utility Engineering

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

CONVENTIONAL PLAN SHEET SYMBOLS

BOUNDARIES AND PROPERTY:

State Line	-----
County Line	-----
Township Line	-----
City Line	-----
Reservation Line	-----
Property Line	-----
Existing Iron Pin	○
Property Corner	✕
Property Monument	□
Parcel/Sequence Number	(23)
Existing Fence Line	-x-x-x-
Proposed Woven Wire Fence	○
Proposed Chain Link Fence	□
Proposed Barbed Wire Fence	◇
Existing Wetland Boundary	-w-w-
Proposed Wetland Boundary	-w-w-
Existing Endangered Animal Boundary	-eab-
Existing Endangered Plant Boundary	-epb-
Known Soil Contamination: Area or Site	☠ ☠
Potential Soil Contamination: Area or Site	☠ ☠

BUILDINGS AND OTHER CULTURE:

Gas Pump Vent or U/G Tank Cap	○
Sign	○
Well	⊙
Small Mine	⊗
Foundation	□
Area Outline	□
Cemetery	⊕
Building	▭
School	▭
Church	⊕
Dam	▭

HYDROLOGY:

Stream or Body of Water	-----
Hydro, Pool or Reservoir	▭
Jurisdictional Stream	-js-
Buffer Zone 1	-bz 1-
Buffer Zone 2	-bz 2-
Flow Arrow	←
Disappearing Stream	→
Spring	○
Wetland	⊕
Proposed Lateral, Tail, Head Ditch	←
False Sump	▽

RAILROADS:

Standard Gauge	-----
RR Signal Milepost	○
Switch	□
RR Abandoned	-----
RR Dismantled	-----

RIGHT OF WAY:

Baseline Control Point	◆
Existing Right of Way Marker	△
Existing Right of Way Line	-----
Proposed Right of Way Line	-----
Proposed Right of Way Line with Iron Pin and Cap Marker	-----
Proposed Right of Way Line with Concrete or Granite Marker	-----
Existing Control of Access	⊕
Proposed Control of Access	⊕
Existing Easement Line	-e-
Proposed Temporary Construction Easement	-e-
Proposed Temporary Drainage Easement	-tde-
Proposed Permanent Drainage Easement	-pde-
Proposed Permanent Drainage / Utility Easement	-due-
Proposed Permanent Utility Easement	-pue-
Proposed Temporary Utility Easement	-tue-
Proposed Aerial Utility Easement	-aue-
Proposed Permanent Easement with Iron Pin and Cap Marker	◆

ROADS AND RELATED FEATURES:

Existing Edge of Pavement	-----
Existing Curb	-----
Proposed Slope Stakes Cut	-c-
Proposed Slope Stakes Fill	-f-
Proposed Curb Ramp	(CR)
Existing Metal Guardrail	-----
Proposed Guardrail	-----
Existing Cable Guiderail	-----
Proposed Cable Guiderail	-----
Equality Symbol	⊕
Pavement Removal	⊗

VEGETATION:

Single Tree	⊕
Single Shrub	⊕
Hedge	-----
Woods Line	-----

Orchard	⊕
Vineyard	⊕

EXISTING STRUCTURES:

MAJOR:	
Bridge, Tunnel or Box Culvert	CONC
Bridge Wing Wall, Head Wall and End Wall	CONC WW
MINOR:	
Head and End Wall	CONC HW
Pipe Culvert	-----
Footbridge	-----
Drainage Box: Catch Basin, DI or JB	CB
Paved Ditch Gutter	-----
Storm Sewer Manhole	⊕
Storm Sewer	s

UTILITIES:

POWER:	
Existing Power Pole	●
Proposed Power Pole	○
Existing Joint Use Pole	●
Proposed Joint Use Pole	○
Power Manhole	⊕
Power Line Tower	⊗
Power Transformer	⊗
U/G Power Cable Hand Hole	⊕
H-Frame Pole	●
Recorded U/G Power Line	-----
Designated U/G Power Line (S.U.E.*)	-----

TELEPHONE:

Existing Telephone Pole	●
Proposed Telephone Pole	○
Telephone Manhole	⊕
Telephone Booth	⊕
Telephone Pedestal	⊕
Telephone Cell Tower	⊕
U/G Telephone Cable Hand Hole	⊕
Recorded U/G Telephone Cable	-----
Designated U/G Telephone Cable (S.U.E.*)	-----
Recorded U/G Telephone Conduit	-----
Designated U/G Telephone Conduit (S.U.E.*)	-----
Recorded U/G Fiber Optics Cable	-----
Designated U/G Fiber Optics Cable (S.U.E.*)	-----

WATER:

Water Manhole	⊕
Water Meter	○
Water Valve	⊕
Water Hydrant	⊕
Recorded U/G Water Line	-----
Designated U/G Water Line (S.U.E.*)	-----
Above Ground Water Line	A/G Water

TV:

TV Satellite Dish	⊕
TV Pedestal	⊕
TV Tower	⊕
U/G TV Cable Hand Hole	⊕
Recorded U/G TV Cable	-----
Designated U/G TV Cable (S.U.E.*)	-----
Recorded U/G Fiber Optic Cable	-----
Designated U/G Fiber Optic Cable (S.U.E.*)	-----

GAS:

Gas Valve	◇
Gas Meter	⊕
Recorded U/G Gas Line	-----
Designated U/G Gas Line (S.U.E.*)	-----
Above Ground Gas Line	A/G Gas

SANITARY SEWER:

Sanitary Sewer Manhole	⊕
Sanitary Sewer Cleanout	⊕
U/G Sanitary Sewer Line	-----
Above Ground Sanitary Sewer	A/G Sanitary Sewer
Recorded SS Forced Main Line	-----
Designated SS Forced Main Line (S.U.E.*)	-----

MISCELLANEOUS:

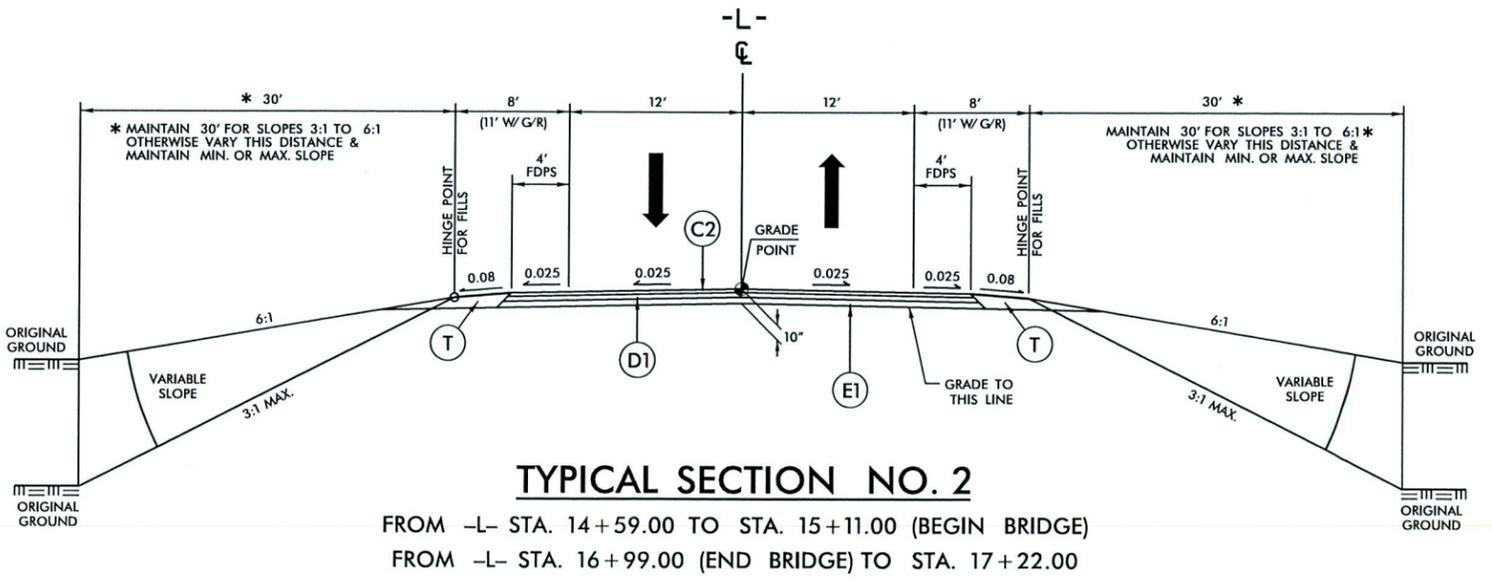
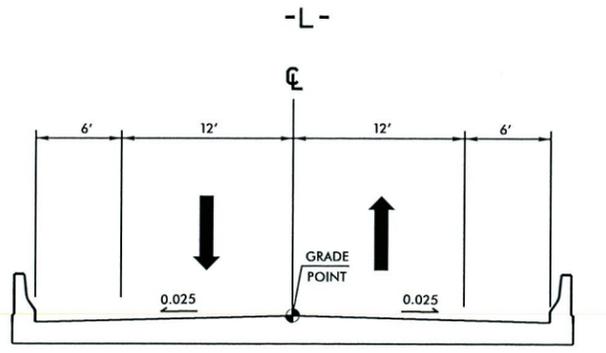
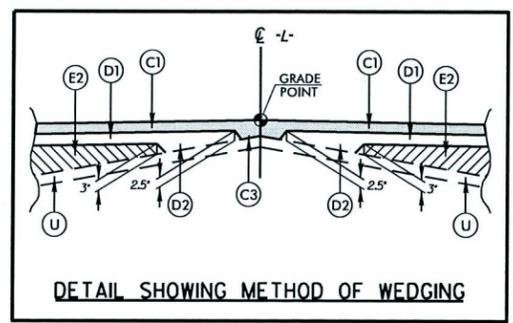
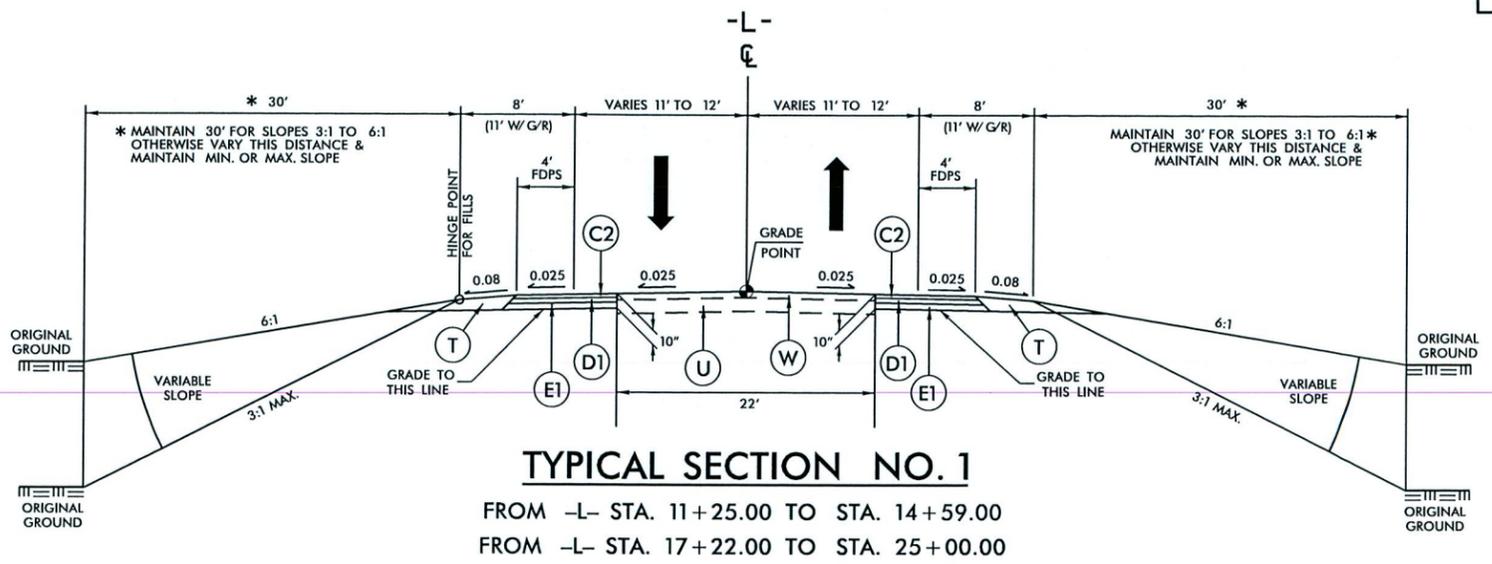
Utility Pole	●
Utility Pole with Base	⊕
Utility Located Object	○
Utility Traffic Signal Box	⊕
Utility Unknown U/G Line	-----
U/G Tank; Water, Gas, Oil	⊕
Underground Storage Tank, Approx. Loc.	⊕
A/G Tank; Water, Gas, Oil	⊕
Geoenvironmental Boring	⊕
U/G Test Hole (S.U.E.*)	⊕
Abandoned According to Utility Records	AATUR
End of Information	E.O.I.

6/2/99

PROJECT REFERENCE NO. B-5122	SHEET NO. 2
ROADWAY DESIGN ENGINEER	PAVEMENT DESIGN ENGINEER
PRELIMINARY PLANS DO NOT USE FOR CONSTRUCTION	

PAVEMENT SCHEDULE	
C1	PROP. APPROX. 1.5" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 168 LBS PER SQUARE YARD.
C2	PROP. APPROX. 3.0" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 168 LBS PER SQUARE YARD IN EACH OF TWO LAYERS.
C3	PROP. VARIABLE DEPTH ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 112 LBS PER SQUARE YARD PER 1" DEPTH, TO BE PLACED IN LAYERS NOT LESS THAN 1.5" OR GREATER THAN 2.0" IN DEPTH.
D1	PROP. APPROX. 2.5" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE I19.0B, AT AN AVERAGE RATE OF 285 LBS. PER SQUARE YARD.
D2	PROP. VARIABLE DEPTH ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE I19.0B, AT AN AVERAGE RATE OF 114 LBS PER SQUARE YARD PER 1" DEPTH, TO BE PLACED IN LAYERS NOT LESS THAN 2.5" OR GREATER THAN 4.0" IN DEPTH.
E1	PROP. APPROX. 4.5" ASPHALT CONCRETE BASE COURSE, TYPE B25.0SB, AT AN AVERAGE RATE OF 513 LBS PER SQUARE YARD.
E2	PROP. VARIABLE DEPTH ASPHALT CONCRETE BASE COURSE, TYPE B25.0B, AT AN AVERAGE RATE OF 114 LBS PER SQUARE YARD PER 1" DEPTH, TO BE PLACED IN LAYERS NOT LESS THAN 3.0" OR GREATER THAN 5.5" IN DEPTH.
T	EARTH MATERIAL
U	EXISTING PAVEMENT
W	VARIABLE DEPTH ASPHALT PAVEMENT (SEE WEDGING DETAIL THIS SHEET)

PAVEMENT EDGE SLOPES AND TRENCH SLOPES ARE 1:1 UNLESS SHOWN OTHERWISE.

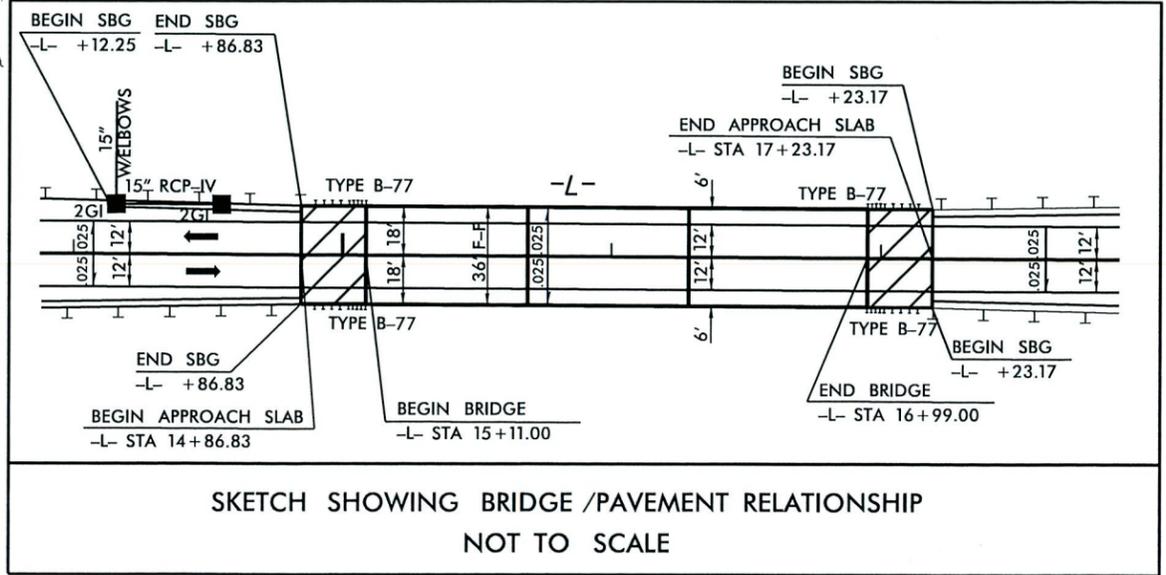
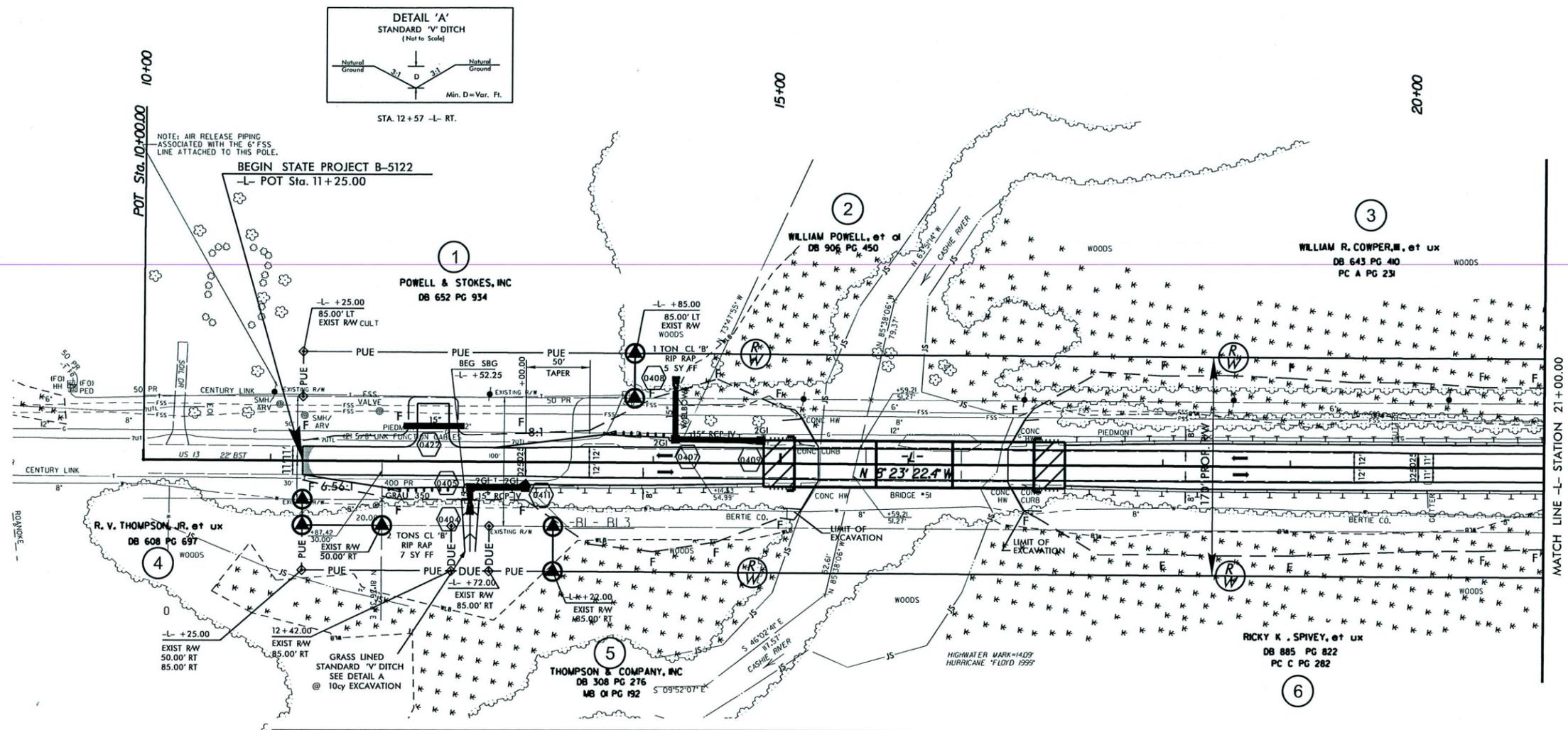


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NC GRID
NAD 83 (CORS 86)

8/17/99

REVISIONS
 02/22/12 - RW REVISION: REVISED EXISTING RIGHT OF WAY WHICH REDUCED THE PROPOSED RIGHT OF WAY ON PARCELS 1, 2, 3, 5 AND 6; ADJUSTED PERMANENT UTILITY EASEMENT FROM STA. 11+25 TO STA. 11+87 ON PARCEL 1; ADJUSTED PROPOSED RIGHT OF WAY AND PERMANENT UTILITY EASEMENT FROM STA. 11+87 TO STA. 13+25 ON PARCEL 5; CHANGED PROPERTY OWNER NAME ON PARCEL 2 - TLW
 04/13/12 - RW REVISION: REMOVED THE RIGHT OF WAY MONUMENTS FROM STA. 21+00.00 LEFT AND RIGHT - TLW



NOTES:
 1. SEE SHEET 6 FOR -L- PROFILE
 2. SEE SHEETS S-1 THROUGH S-?? FOR STRUCTURE PLANS

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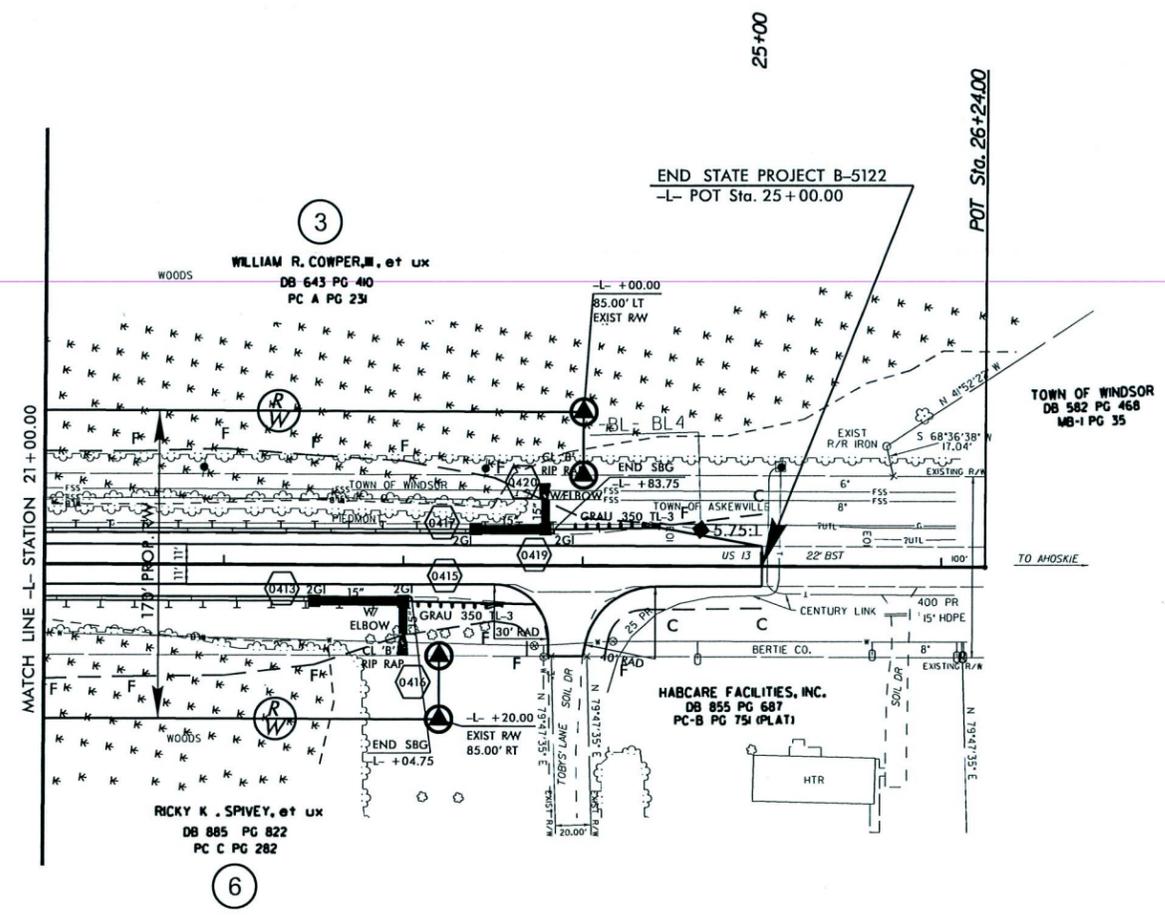
PROJECT REFERENCE NO. B-5122	SHEET NO. 5
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
PRELIMINARY PLANS DO NOT USE FOR CONSTRUCTION	

NC GRID
NAD 83 (CORS 86)

REVISIONS

02/22/12 - RW REVISION: REVISED EXISTING RIGHT OF WAY WHICH REDUCED THE PROPOSED RIGHT OF WAY ON PARCELS 1, 2, 3, 5 AND 6; ADJUSTED PERMANENT UTILITY EASEMENT FROM -L- STA. 11+25 TO -L- STA. 13+85 LT. ON PARCEL 1; ADJUSTED PROPOSED RIGHT OF WAY AND PERMANENT UTILITY EASEMENT FROM -L- STA. 11+25 TO -L- STA. 11+87 ON PARCEL 4; ADJUSTED PERMANENT UTILITY EASEMENT AND DRAINAGE UTILITY EASEMENT FROM -L- STA. 13+25 ON PARCEL 5; CHANGED PROPERTY OWNER NAME ON PARCEL 2. - TLW
04/13/12 - RW REVISION: EXTENDED PROPOSED RIGHT OF WAY TO -L- STATION 23+20.00 RIGHT ON PARCEL 3 AND -L- STATION 24+00 LEFT ON PARCEL 6 FOR THE PROJECT EXTENSION. - TLW

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- NOTES:
1. SEE SHEET 6 FOR -L- PROFILE
 2. SEE SHEETS S-1 THROUGH S-?? FOR STRUCTURE PLANS