



STATE OF NORTH CAROLINA  
DEPARTMENT OF TRANSPORTATION

BEVERLY EAVES PERDUE  
GOVERNOR

EUGENE A. CONTI  
SECRETARY

June 30, 2011

U.S. Army Corps of Engineers  
Regulatory Field Office  
PO Box 1000  
Washington, NC 27889-1000

Attention: Thomas Steffens  
NCDOT Coordinator

Dear Sir:

Subject: **Application for Section 404 General Permit 198200031, Section 401 Water Quality Certification, and Neuse Riparian Buffer Authorization** for the proposed replacement of Bridge 74 over Black Creek on NC 50, Johnston County. TIP No. B-4556; Federal Aid Project No. BRSTP-0050(7); Debit \$240.00 from WBS 33768.1.1

Please find enclosed the PCN form, permit drawings, buffer drawings, Stormwater Management Plan, EEP acceptance Letter, and half-size plan sheets for the above referenced project. A Categorical Exclusion (CE) was completed for this project in May 2008, and distributed shortly thereafter. Additional copies will be made available upon request. The North Carolina Department of Transportation (NCDOT) proposes to replace existing Bridge No. 74 on NC 50 over Black Creek in Johnston County. The project involves replacement of the existing 81-foot structure with a 111-foot long bridge in approximately the same location. Permanent impacts to Waters of the United States associated with this project include 0.15 acre to riparian wetlands. There will, however, be 6,333 sq. ft. of riparian buffer impacts.

The let date for this project is December 20, 2011; however, the let date may advance as additional funds become available.

### **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 these activities be authorized by a General Permit No. 198200031.

**MAILING ADDRESS:**  
NC DEPARTMENT OF TRANSPORTATION  
PROJECT DEVELOPMENT AND ENVIRONMENTAL ANALYSIS  
1598 MAIL SERVICE CENTER  
RALEIGH NC 27699-1598

TELEPHONE: 919-707-6100  
FAX: 919-212-5785  
WEBSITE: [WWW.NCDOT.ORG](http://WWW.NCDOT.ORG)

**LOCATION:**  
1020 BIRCH RIDGE DRIVE  
RALEIGH NC 27610-4328

Section 401 Water Quality Certification: We anticipate 401 General Certification number 3701 will apply to this project. All general conditions of the Water Quality Certification will be met. NCDOT is providing five copies of this application to the NCDWQ for their review and approval. Authorization to debit the \$240 Permit Application Fee from WBS Element 33768.1.1 is hereby given.

Neuse Riparian Buffer Authorization: NCDOT requests that the NC Division of Water Quality review this application and issue a written approval for a Neuse Riparian Buffer Authorization.

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>

Thank you for your assistance with this project. If you have any questions or need additional information, please contact Chris Manley at [cdmanley@ncdot.gov](mailto:cdmanley@ncdot.gov) or (919) 707-6135.

Sincerely,



*for* Gregory J. Thorpe, Ph.D., Branch Manager  
Project Development & Environmental Analysis

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:  Section 404 Permit     Section 10 Permit

1b. Specify Nationwide Permit (NWP) number: \_\_\_\_\_ or General Permit (GP) number: 198200031

1c. Has the NWP or GP number been verified by the Corps?     Yes     No

1d. Type(s) of approval sought from the DWQ (check all that apply):  
 401 Water Quality Certification – Regular     Non-404 Jurisdictional General Permit  
 401 Water Quality Certification – Express     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
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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.     Yes     No

1g. Is the project located in any of NC's twenty coastal counties. If yes, answer 1h below.     Yes     No

1h. Is the project located within a NC DCM Area of Environmental Concern (AEC)?     Yes     No

#### 2. Project Information

2a. Name of project: Replacement of Bridge 74 over Black Creek on NC 50

2b. County: Johnston

2c. Nearest municipality / town: Benson

2d. Subdivision name: *not applicable*

2e. NCDOT only, T.I.P. or state project no: B-4556

#### 3. Owner Information

3a. Name(s) on Recorded Deed: North Carolina Department of Transportation

3b. Deed Book and Page No. *not applicable*

3c. Responsible Party (for LLC if applicable): *not applicable*

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) 212-5785

3h. Email address: cdmanley@ncdot.gov

<b>4. Applicant Information (if different from owner)</b>	
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:	
<b>5. Agent/Consultant Information (if applicable)</b>	
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>B. Project Information and Prior Project History</b>	
<b>1. Property Identification</b>	
1a. Property identification no. (tax PIN or parcel ID):	<i>not applicable</i>
1b. Site coordinates (in decimal degrees):	Latitude: 35.899700 (DD.DDDDDD) Longitude: - 78.551653 (-DD.DDDDDD)
1c. Property size:	3.8 acres
<b>2. Surface Waters</b>	
2a. Name of nearest body of water (stream, river, etc.) to proposed project:	Black Creek
2b. Water Quality Classification of nearest receiving water:	C NSW
2c. River basin:	Neuse
<b>3. Project Description</b>	
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:  The primary natural community found on the site is mixed pine hardwood forest, the rest is maintained/disturbed; the principle land uses in the project vicinity include agriculture, silviculture, and limited commercial development.	
3b. List the total estimated acreage of all existing wetlands on the property:  0.5	
3c. List the total estimated linear feet of all existing streams (intermittent and perennial) on the property:  140	
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 81-foot bridge with a 111-foot, single span bridge on the existing alignment with an off-site detour. Standard road building equipment, such as trucks, dozers, and cranes will be used.	
<b>4. Jurisdictional Determinations</b>	
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:	<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 type="checkbox"/> Preliminary <input checked="" type="checkbox"/> Final
4c. If yes, who delineated the jurisdictional areas? Name (if known): Steven Busbee	Agency/Consultant Company: STV/Ralph Whitehead & Associates Other:
4d. If yes, list the dates of the Corps jurisdictional determinations or State determinations and attach documentation. 10/21/2008	
<b>5. Project History</b>	
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.	
<b>6. Future Project Plans</b>	
6a. Is this a phased project?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
6b. If yes, explain.	

<b>C. Proposed Impacts Inventory</b>						
<b>1. Impacts Summary</b>						
1a. Which sections were completed below for your project (check all that apply):						
<input checked="" type="checkbox"/> Wetlands <input type="checkbox"/> Streams - tributaries <input checked="" type="checkbox"/> Buffers <input type="checkbox"/> Open Waters <input type="checkbox"/> Pond Construction						
<b>2. Wetland Impacts</b>						
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 1 <input checked="" type="checkbox"/> P <input type="checkbox"/> T	Fill	scrub shrub	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input checked="" type="checkbox"/> Corps <input type="checkbox"/> DWQ	0.02	
Site 2 <input checked="" type="checkbox"/> P <input type="checkbox"/> T	Fill	emergent	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input checked="" type="checkbox"/> Corps <input type="checkbox"/> DWQ	0.02	
Site 3 <input checked="" type="checkbox"/> P <input type="checkbox"/> T	Fill	scrub shrub	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input checked="" type="checkbox"/> Corps <input type="checkbox"/> DWQ	0.02	
Site 4 <input checked="" type="checkbox"/> P <input type="checkbox"/> T	Fill	emergent	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input checked="" type="checkbox"/> Corps <input type="checkbox"/> DWQ	<0.01	
Site 5 <input checked="" type="checkbox"/> P <input type="checkbox"/> T	Fill	palustrine	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Corps <input type="checkbox"/> DWQ	0.09	
Site 6 <input type="checkbox"/> P <input type="checkbox"/> T			<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Corps <input type="checkbox"/> DWQ		
<b>2g. Total wetland impacts</b>					0.15 Permanent 0 Temporary	
2h. Comments: 0.26 ac of hand clearing in wetlands due to bridge construction. 0.03 ac of temp. fill will occur in the hand clearing areas for erosion control measures, including Temporary Silt Fence and/or Special Sediment Control Fence.						
<b>3. Stream Impacts</b>						
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		
<b>3h. Total stream and tributary impacts</b>					0 Perm 0 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				
<b>4f. Total open water impacts</b>				0 Permanent 0 Temporary

4g. Comments:

**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								
<b>5f. Total</b>								

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 checked="" 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 checked="" type="checkbox"/> P <input type="checkbox"/> T	bridge	Black Creek	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	651	780
B2 <input checked="" type="checkbox"/> P <input type="checkbox"/> T	bridge	Black Creek	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	557	510
B3 <input checked="" type="checkbox"/> P <input type="checkbox"/> T	bridge	Black Creek	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	1,520	727
B4 <input checked="" type="checkbox"/> P <input type="checkbox"/> T	bridge	Black Creek	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	1,016	571
<b>6h. Total buffer impacts</b>				<b>3,744</b>	<b>2,588</b>
6i. Comments:					

<b>D. Impact Justification and Mitigation</b>		
<b>1. Avoidance and Minimization</b>		
1a. Specifically describe measures taken to avoid or minimize the proposed impacts in designing project. The proposed bridge is 30 feet longer than the existing bridge; the proposed bridge will be at approximately the same grade as the existing structure; 3 existing bents will be replaced with a single span with no bents in the stream. Design Standards in Sensitive Watersheds will be implemented. 3:1 slopes will be used in jurisdictional areas.		
1b. Specifically describe measures taken to avoid or minimize the proposed impacts through construction techniques. NCDOT Best Management Practices for Bridge Demolition, Removal and Construction will be followed, as well as those for Sedimentation and Erosion Control will be adhered to. An offsite detour will be implemented. An in-water construction moratorium from Feb. 15-June 15 will be adhered to.		
<b>2. Compensatory Mitigation for Impacts to Waters of the U.S. or Waters of the State</b>		
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	
<b>3. Complete if Using a Mitigation Bank</b>		
3a. Name of Mitigation Bank: not applicable		
3b. Credits Purchased (attach receipt and letter)	Type	Quantity
3c. Comments:		
<b>4. Complete if Making a Payment to In-lieu Fee Program</b>		
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:	0.3 acres	
4f. Non-riparian wetland mitigation requested:	acres	
4g. Coastal (tidal) wetland mitigation requested:	acres	
4h. Comments:		
<b>5. Complete if Using a Permittee Responsible Mitigation Plan</b>		
5a. If using a permittee responsible mitigation plan, provide a description of the proposed mitigation plan.		

<b>6. Buffer Mitigation (State Regulated Riparian Buffer Rules) – required by DWQ</b>				
6a. Will the project result in an impact within a protected riparian buffer that requires buffer mitigation?				<input type="checkbox"/> Yes <input checked="" type="checkbox"/> 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	
<b>6f. Total buffer mitigation required:</b>				
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:				

<b>E. Stormwater Management and Diffuse Flow Plan (required by DWQ)</b>	
<b>1. Diffuse Flow Plan</b>	
1a. Does the project include or is it adjacent to protected riparian buffers identified within one of the NC Riparian Buffer Protection Rules?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
1b. If yes, then is a diffuse flow plan included? If no, explain why. Comments: if yes, see attached permit drawings.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<b>2. Stormwater Management Plan</b>	
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.	
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
<b>3. Certified Local Government Stormwater Review</b>	
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
<b>4. DWQ Stormwater Program Review</b>	
4a. Which of the following state-implemented stormwater management programs apply (check all that apply):	<input 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 type="checkbox"/> Yes <input type="checkbox"/> No
<b>5. DWQ 401 Unit Stormwater Review</b>	
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

<b>F. Supplementary Information</b>	
<b>1. Environmental Documentation (DWQ Requirement)</b>	
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
<b>2. Violations (DWQ Requirement)</b>	
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):	
<b>3. Cumulative Impacts (DWQ Requirement)</b>	
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.	
<b>4. Sewage Disposal (DWQ Requirement)</b>	
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	

<b>5. Endangered Species and Designated Critical Habitat (Corps Requirement)</b>		
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? NHP and NCDOT field surveys. NCDOT biologists confirmed "No Effect" for all federally protected species in 2009.		
<b>6. Essential Fish Habitat (Corps Requirement)</b>		
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		
<b>7. Historic or Prehistoric Cultural Resources (Corps Requirement)</b>		
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		
<b>8. Flood Zone Designation (Corps Requirement)</b>		
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 (Agent's signature is valid only if an authorization letter from the applicant is provided.)	6-30-11 Date

**General Project Information**

<b>Project No.:</b>	WBS: 33768.1.1 / TIP: B-4556		<b>Date:</b>	1/4/2011	
<b>City/Town:</b>	Johnston County		<b>Designer:</b>	Bill Zerman, PE	
<b>County(ies):</b>	Neuse		<b>Project Manager:</b>	TVA County?	
<b>River Basin(s):</b>	Black Creek		<b>CAMA County?</b>	no	no
<b>Primary Receiving Water:</b>	Black Creek		<b>NCDWQ Stream Index:</b>	27-45-(2)	
<b>NCDWQ Surface Water Classification for Primary Receiving Water</b>	Primary:		Class C		
<b>Other Stream Classification:</b>	Supplemental:		Nutrient Sensitive Waters (NSW)		
<b>303(d) Stream?</b>	yes	<b>Type(s) of Impairment:</b>	Low Dissolved Oxygen		
<b>State Stormwater Permit Required?</b>	no	<b>If yes, why?</b>			
<b>Could the Project Impact Threatened or Endangered Species?</b>	no				
<b>Description:</b>					
<b>Anadromous Fish Present?</b>	no				
<b>Description:</b>					
<b>Buffer Rules in Effect?</b>	yes	<b>Buffer Rules:</b>	Neuse River Basin		
<b>Existing Site</b>					
<b>Description of Existing Project Area:</b>	2 lane shoulder section roadway in rural area of Johnson County				
<b>Average Daily Traffic (existing):</b>	5681				
<b>Existing Cross Section:</b>	2 lane shoulder section				
<b>Surrounding Land Use:</b>	Agricultural and Residential				
<b>General Comments:</b>					
<b>Project Description</b>					
<b>Description of Proposed Project:</b>	Replacement of Bridge 74 over Black Creek on NC 50				
<b>Average Daily Traffic (proposed):</b>	10200				
<b>Proposed Cross-Section:</b>	2 lane shoulder section				
<b>Interchange Modification:</b>	no	<b>Median Type:</b>	none		
<b>Terminus:</b>	10+00 -L-				
<b>Terminus:</b>	22+00 -L-				
<b>Project Length (lin. miles/feet):</b>	0.227 mi. / 1199 ft.				0.11
<b>General Comments:</b>					







June 14, 2011

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

Dear Dr. Thorpe:

Subject: EEP Mitigation Acceptance Letter:

**B-4556, Replace Bridge Number 74 over Black Creek on NC 50, Johnston 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 June 14, 2011, the impacts are located in CU 03020201 of the Neuse River Basin in the Northern Inner Coastal Plain (NICP) Eco-Region, and are as follows:

Neuse 03020201 NICP	Stream			Wetlands			Buffer (Sq. Ft.)	
	Cold	Cool	Warm	Riparian	Non-Riparian	Coastal Marsh	Zone 1	Zone 2
Impacts (feet/acres)	0	0	0	0.15	0	0	0	0

EEP commits to implementing sufficient compensatory stream and riparian wetland mitigation credits to offset the impacts associated with this project in accordance with 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 919-715-1929.

Sincerely,

William D. Gilmore, P.E.  
EEP Director

cc: Mr. Tom Steffens, USACE – Washington Regulatory Field Office  
Mr. Brian Wrenn, Division of Water Quality, Wetlands/401 Unit  
File: B-4556

*Restoring... Enhancing... Protecting Our State*



**U.S. ARMY CORPS OF ENGINEERS  
WILMINGTON DISTRICT**



Action Id. SAW-2008-00512

County: Johnston

U.S.G.S. Quad: Benson

**NOTIFICATION OF JURISDICTIONAL DETERMINATION**

Property Owner/Agent: North Carolina Department of Transportation c/o Pamela Williams

Address: 2728 Capital Boulevard, Suite 167

Raleigh, North Carolina

27604

Telephone No.: 919-715-5507

Property description:

Size (acres) 6.65 Acres

Nearest Town Benson

Nearest Waterway Black Creek

River Basin Neuse River

USGS HUC 03020201

Coordinates N 35.4623 W -78.5516

Location description The project area is located on and around NC 50 over Black Creek (B-4556), West of US Highway 40, North of Benson, Johnson County, North Carolina

**Indicate Which of the Following Apply:**

**A. Preliminary Determination**

- Based on preliminary information, there may be wetlands on the above described property. We strongly suggest you have this property inspected to determine the extent of Department of the Army (DA) jurisdiction. To be considered final, a jurisdictional determination must be verified by the Corps. This preliminary determination is not an appealable action under the Regulatory Program Administrative Appeal Process ( Reference 33 CFR Part 331).

**B. Approved Determination**

- There are Navigable Waters of the United States within the above described property subject to the permit requirements of Section 10 of the Rivers and Harbors Act and Section 404 of the Clean Water Act. Unless there is a change in the law or our published regulations, this determination may be relied upon for a period not to exceed five years from the date of this notification.

- There are waters of the U.S. including wetlands on the above described project area subject to the permit requirements of Section 404 of the Clean Water Act (CWA)(33 USC § 1344). Unless there is a change in the law or our published regulations, this determination may be relied upon for a period not to exceed five years from the date of this notification.

- We strongly suggest you have the wetlands on your property delineated. Due to the size of your property and/or our present workload, the Corps may not be able to accomplish this wetland delineation in a timely manner. For a more timely delineation, you may wish to obtain a consultant. To be considered final, any delineation must be verified by the Corps.

- The waters of the U.S. including wetland on your project area have been delineated and the delineation has been verified by the Corps. We strongly suggest you have this delineation surveyed. Upon completion, this survey should be reviewed and verified by the Corps. Once verified, this survey will provide an accurate depiction of all areas subject to CWA jurisdiction on your property which, provided there is no change in the law or our published regulations, may be relied upon for a period not to exceed five years.

- The wetlands have been delineated and surveyed and are accurately depicted on the plat signed by the Corps Regulatory Official identified below on \_\_\_\_\_. Unless there is a change in the law or our published regulations, this determination may be relied upon for a period not to exceed five years from the date of this notification.

- There are no waters of the U.S., to include wetlands, present on the above described property which are subject to the permit requirements of Section 404 of the Clean Water Act (33 USC 1344). Unless there is a change in the law or our published regulations, this determination may be relied upon for a period not to exceed five years from the date of this notification.

- The property is located in one of the 20 Coastal Counties subject to regulation under the Coastal Area Management Act (CAMA). You should contact the Division of Coastal Management in Washington, NC, at (252) 946-6481 to determine their requirements.

Action Id. SAW-2008-0512

Placement of dredged or fill material within waters of the US and/or wetlands without a Department of the Army permit may constitute a violation of Section 301 of the Clean Water Act (33 USC § 1311). If you have any questions regarding this determination and/or the Corps regulatory program, please contact Emily Jernigan at 252-975-1616 ext 28.

**C. Basis For Determination**

This site exhibits wetland criteria as described in the 1987 Corps Wetland Delineation Manual and directly abuts Black Creek, a tributary of the Neuse River, a TNW.

**D. Remarks**

\_\_\_\_\_

**E. Appeals Information (This information applies only to approved jurisdictional determinations as indicated in B. above)**

This correspondence constitutes an approved jurisdictional determination for the above described site. If you object to this determination, you may request an administrative appeal under Corps regulations at 33 CFR part 331. Enclosed you will find a Notification of Appeal Process (NAP) fact sheet and request for appeal (RFA) form. If you request to appeal this determination you must submit a completed RFA form to the following address:

District Engineer, Wilmington Regulatory Division  
Attn:Emily Jernigan, Project Manager,  
Washington Regulatory Field Office  
Post Office Box 1000  
Washington, North Carolina 27889

In order for an RFA to be accepted by the Corps, the Corps must determine that it is complete, that it meets the criteria for appeal under 33 CFR part 331.5, and that it has been received by the District Office within 60 days of the date of the NAP. Should you decide to submit an RFA form, it must be received at the above address by 12/21/2008.

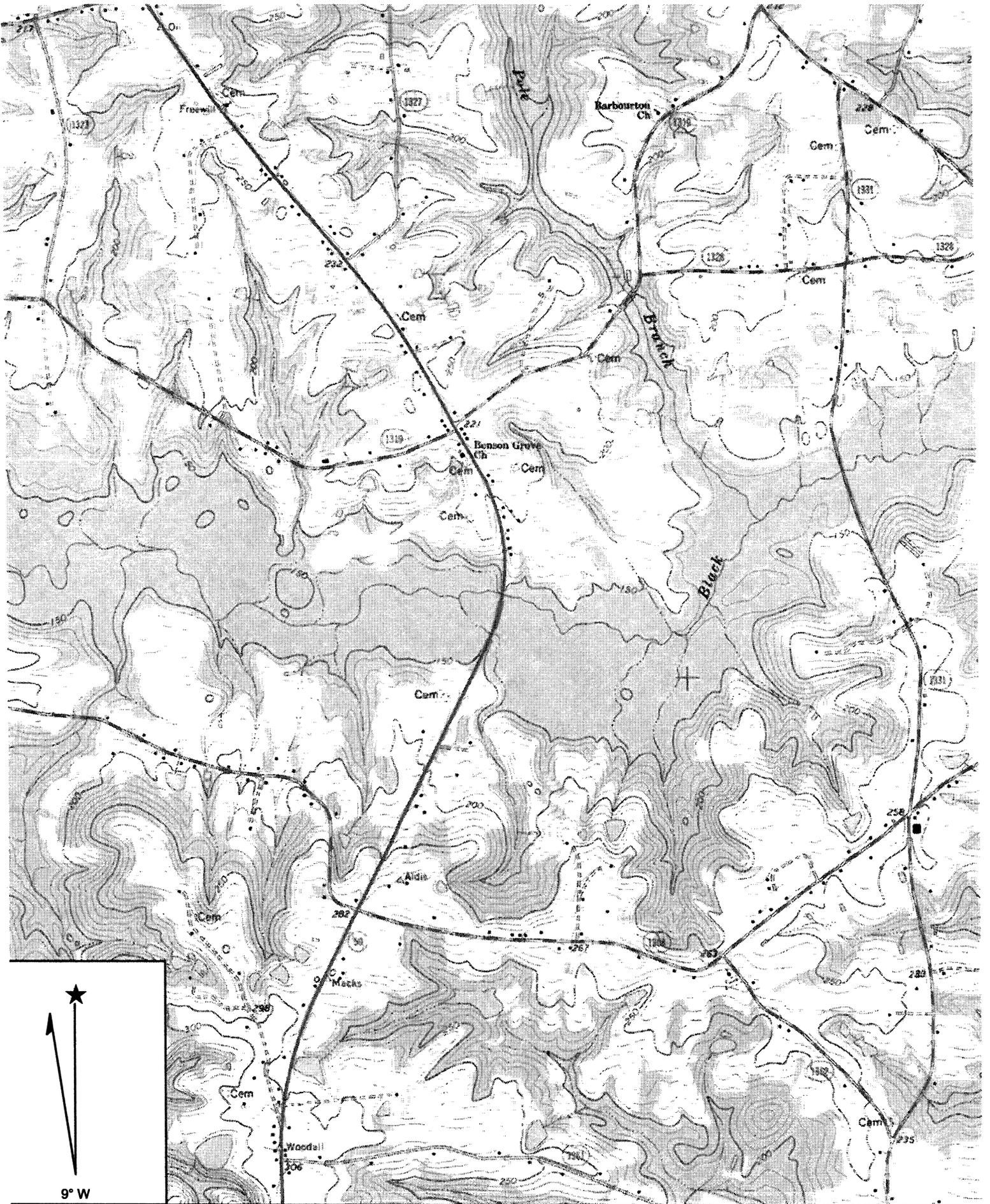
**\*\*It is not necessary to submit an RFA form to the District Office if you do not object to the determination in this correspondence.\*\***

Corps Regulatory Official: Emily N. Jernigan  
Date 10/21/2008 Expiration Date 10/21/2013

The Wilmington District is committed to providing the highest level of support to the public. To help us ensure we continue to do so, please complete the Customer Satisfaction Survey located at our website at <http://regulatory.usacesurvey.com/> to complete the survey online.

Copy furnished:  
Steven Busbee



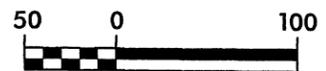


Name: BENSON  
Date: 4/19/2010  
Scale: 1 inch equals 2000 feet

Permit Drawing  
Sheet 2 of 11

Location: 035° 27' 43.9" N 078° 33' 08.7" W  
Caption: Project 33768.1.1 (B-4556)  
Johnston County

8/17/99

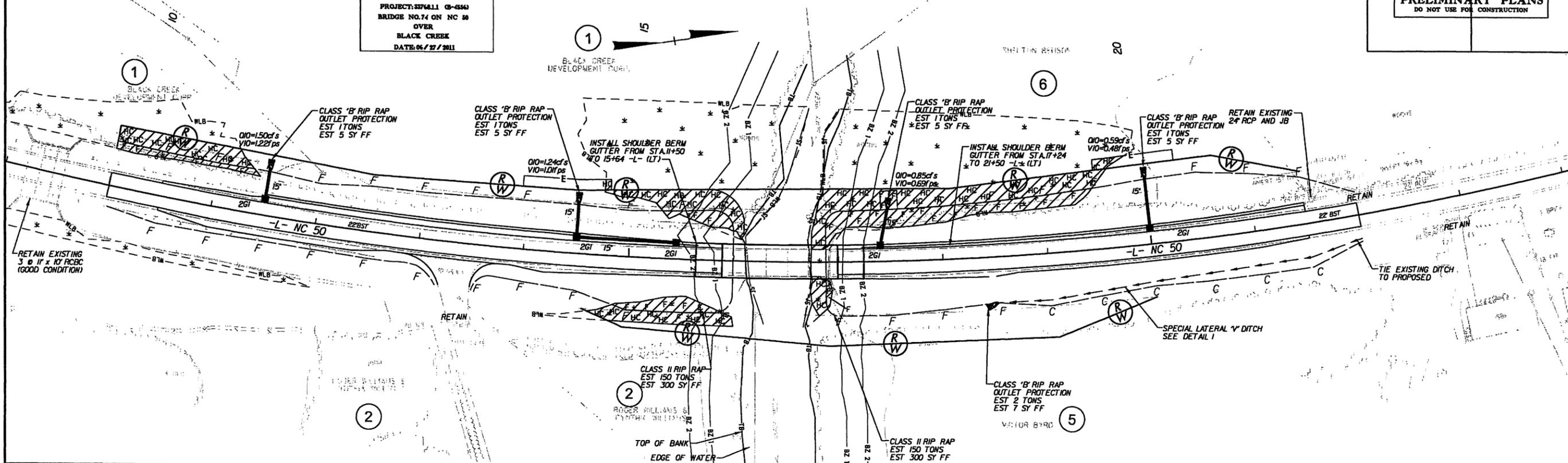


N. C. DEPT. OF TRANSPORTATION  
DIVISION OF HIGHWAYS  
JOHNSTON COUNTY  
PROJECT: 376411 (B-656)  
BRIDGE NO. 74 ON NC 56  
OVER  
BLACK CREEK  
DATE: 04/27/2011

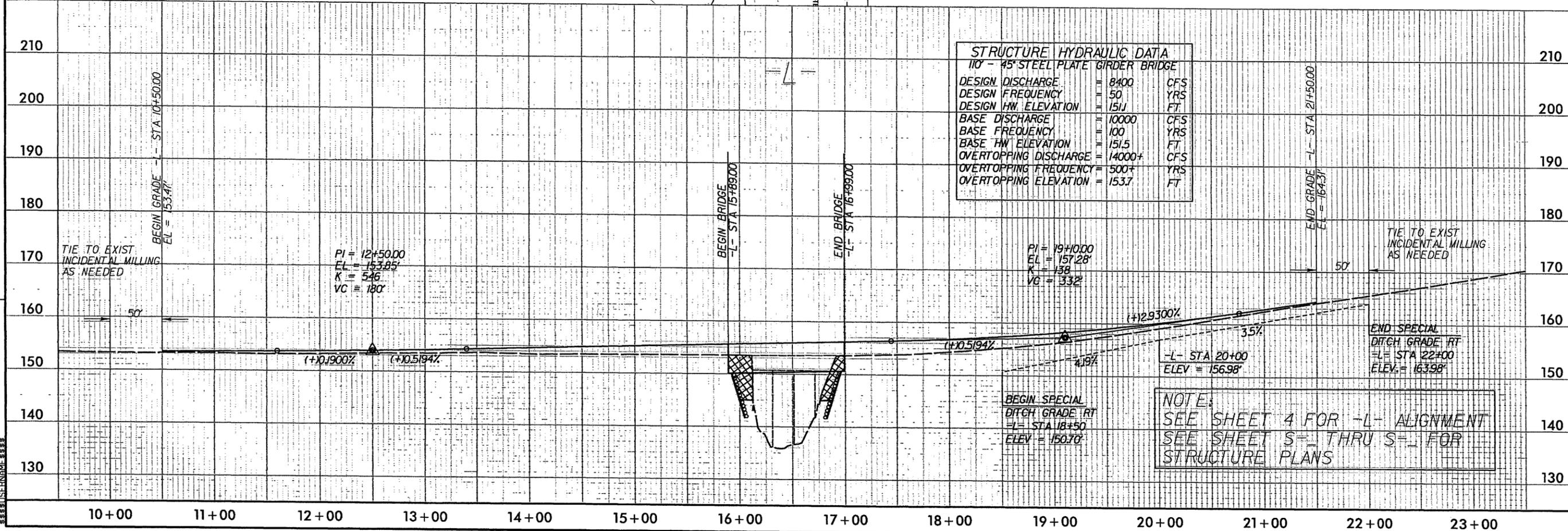
DENOTES FILL IN WETLAND  
 DENOTES HAND CLEARING

Permit Drawing  
Sheet 3 of 11

PROJECT REFERENCE NO.	SHEET NO.
B-4556	4
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
<b>INCOMPLETE PLANS</b> DO NOT USE FOR R/W ACQUISITION	
<b>PRELIMINARY PLANS</b> DO NOT USE FOR CONSTRUCTION	

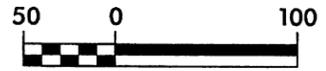


REVISIONS



NOTE:  
SEE SHEET 4 FOR -L- ALIGNMENT  
SEE SHEET S- THRU S- FOR  
STRUCTURE PLANS

8/17/99

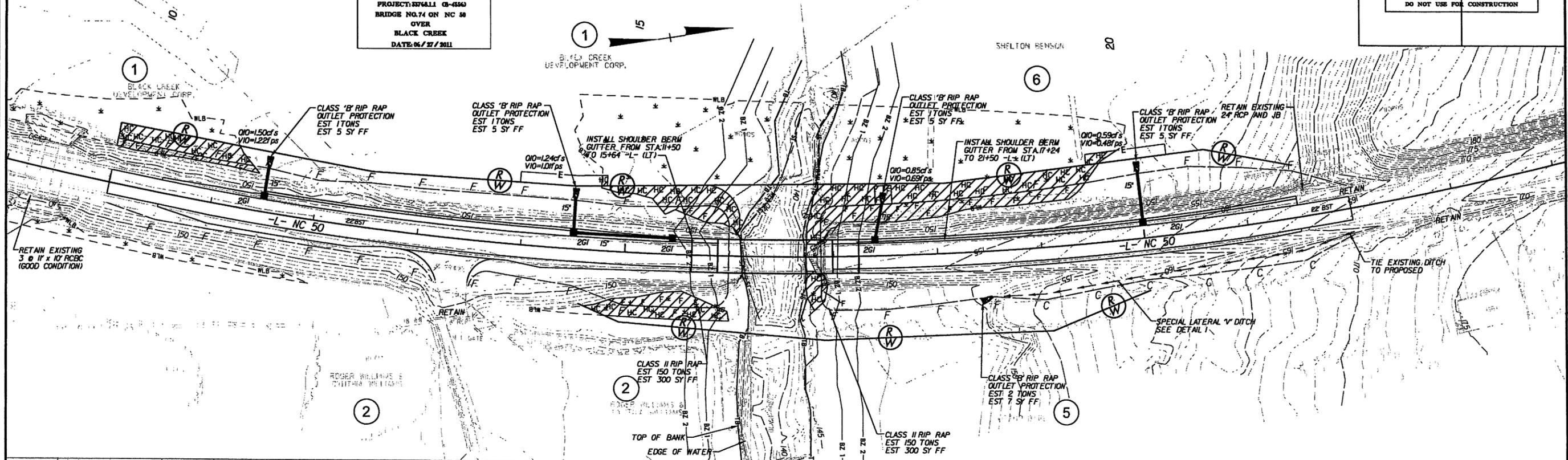


N. C. DEPT. OF TRANSPORTATION  
DIVISION OF HIGHWAYS  
JOHNSTON COUNTY  
PROJECT: 876411 B-4556  
BRIDGE NO. 74 ON NC 50  
OVER  
BLACK CREEK  
DATE: 06/27/2011

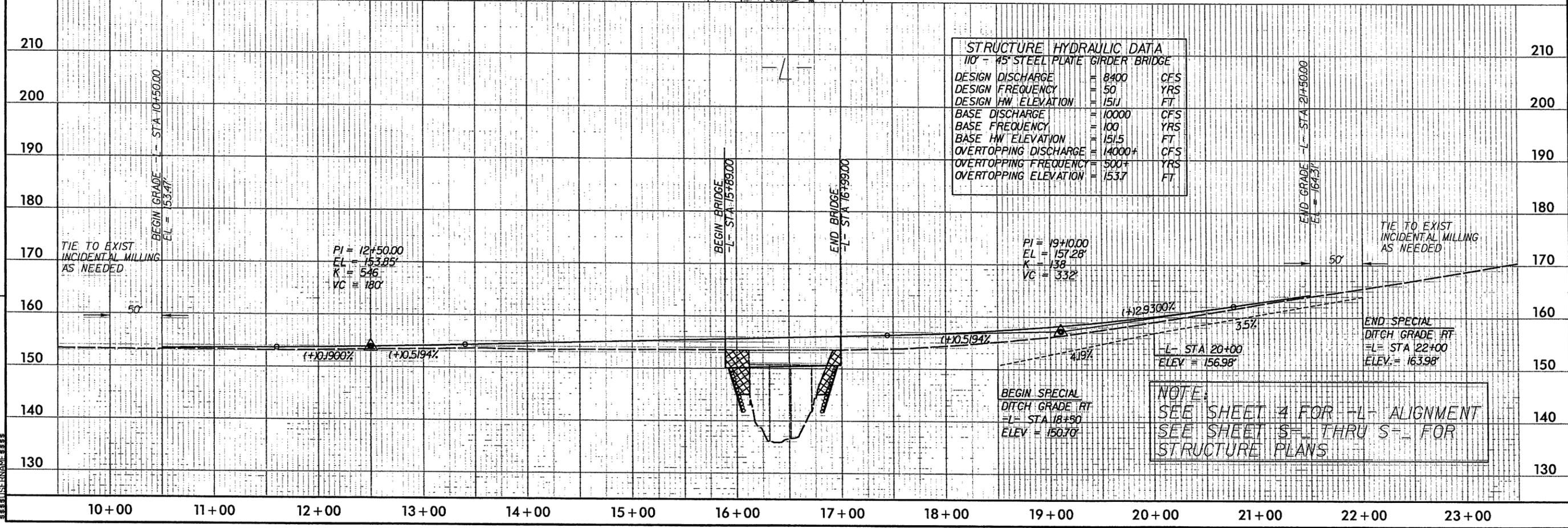
DENOTES FILL IN WETLAND  
 DENOTES HAND CLEARING

Permit Drawing  
Sheet 4 of 11

PROJECT REFERENCE NO. <b>B-4556</b>	SHEET NO. <b>4</b>
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
<b>INCOMPLETE PLANS</b> DO NOT USE FOR R/W ACQUISITION	
<b>PRELIMINARY PLANS</b> DO NOT USE FOR CONSTRUCTION	



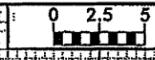
STRUCTURE HYDRAULIC DATA	
110' - 45" STEEL PLATE GIRDER BRIDGE	
DESIGN DISCHARGE	= 8400 CFS
DESIGN FREQUENCY	= 50 YRS
DESIGN HW ELEVATION	= 1511 FT
BASE DISCHARGE	= 10000 CFS
BASE FREQUENCY	= 100 YRS
BASE HW ELEVATION	= 1515 FT
OVERTOPPING DISCHARGE	= 14000+ CFS
OVERTOPPING FREQUENCY	= 500+ YRS
OVERTOPPING ELEVATION	= 1537 FT



REVISIONS

SYSTEMS  
DATE  
USER

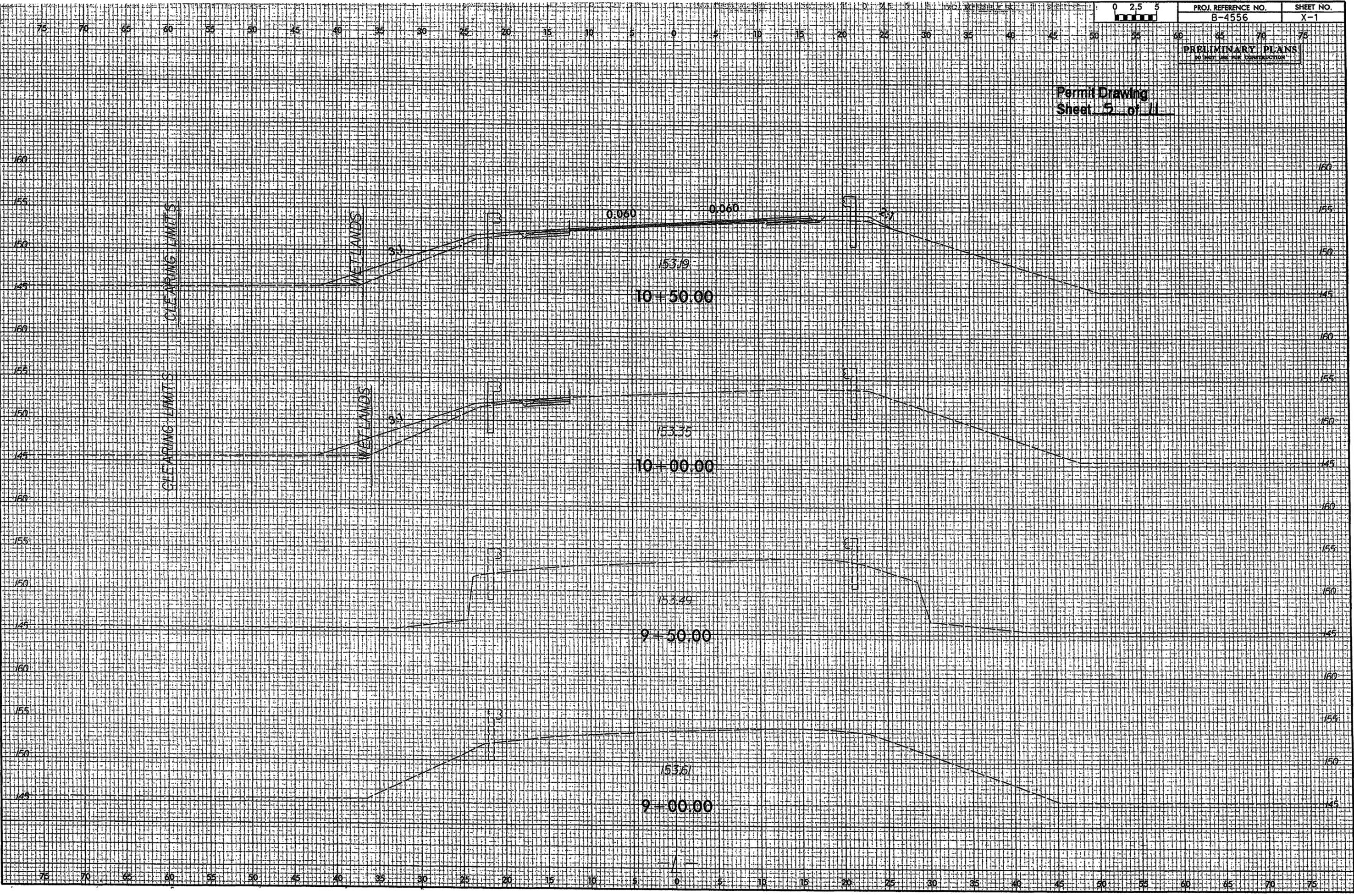
8/23



PROJ. REFERENCE NO. B-4556	SHEET NO. X-1
-------------------------------	------------------

PRELIMINARY PLANS  
DO NOT USE FOR CONSTRUCTION

Permit Drawing  
Sheet 5 of 11



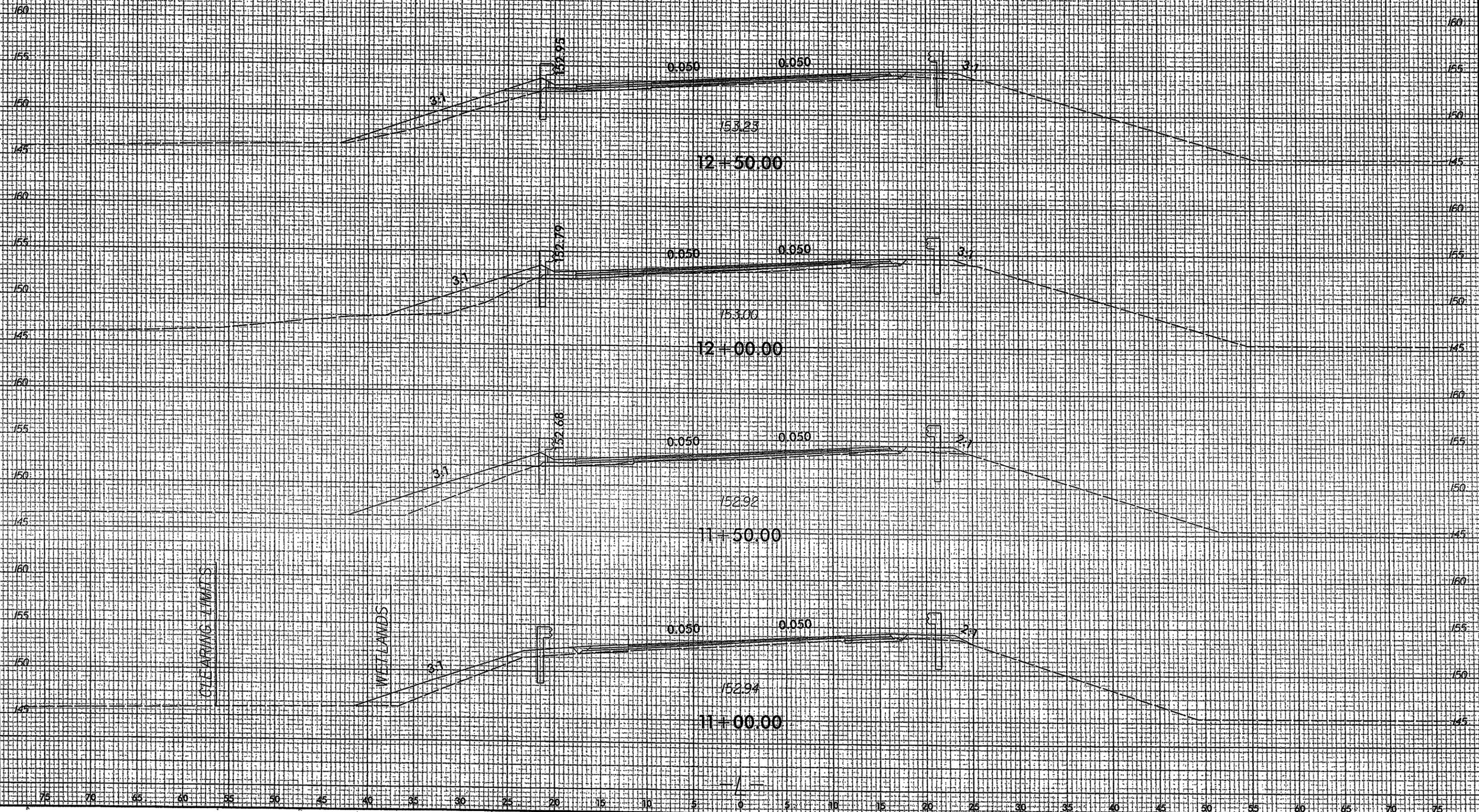
\*\*\*\*\*  
 SYSTEMTIME  
 \*\*\*\*\*  
 \*\*\*\*\*  
 USERNAME  
 \*\*\*\*\*

8/23/

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

0 2.5 5	PROJ. REFERENCE NO. B-4556	SHEET NO. X-2
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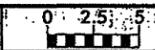
Permit Drawing  
Sheet 6 of 11



\*\*\*\*\*SYTIME\*\*\*\*\*  
\*\*\*\*\*DATE\*\*\*\*\*  
\*\*\*\*\*DRAWN BY\*\*\*\*\*

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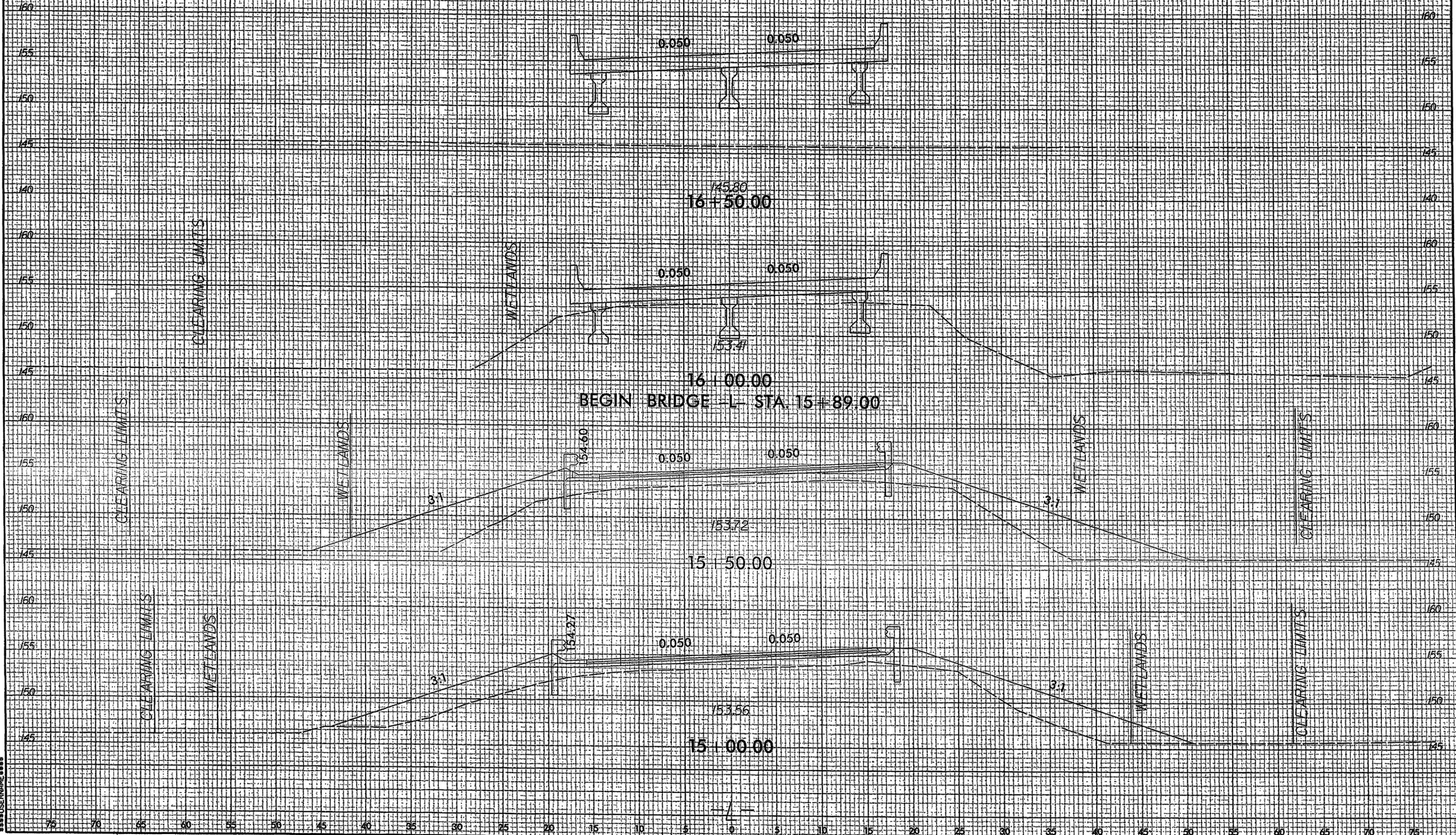
8/23/21



PROJ. REFERENCE NO. B-4556

SHEET NO. X-4

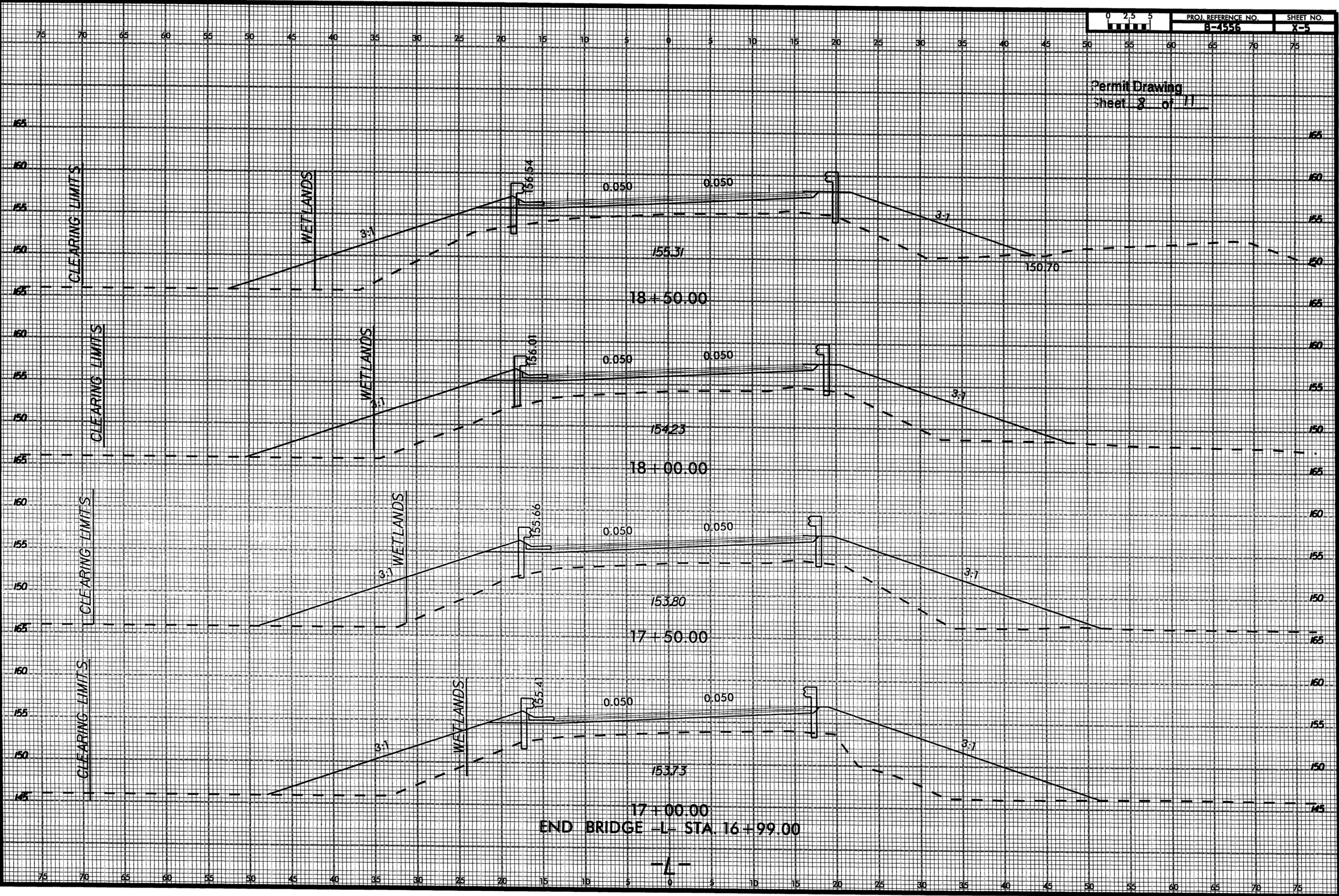
Permit Drawing  
Sheet 7 of 11



\*\*\*\*\*SYTIME\*\*\*\*\*  
\*\*\*\*\*DATE\*\*\*\*\*  
\*\*\*\*\*US TIME\*\*\*\*\*

8/23/99

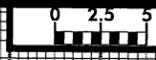
Permit Drawing  
Sheet 8 of 11



17 + 00.00  
 END BRIDGE -L- STA. 16 + 99.00

\$\$\$\$\$SYTIME\$\$\$\$\$  
 \$\$\$\$\$\$DGN\$\$\$\$\$\$  
 \$\$\$\$\$\$USERNAME\$\$\$\$\$

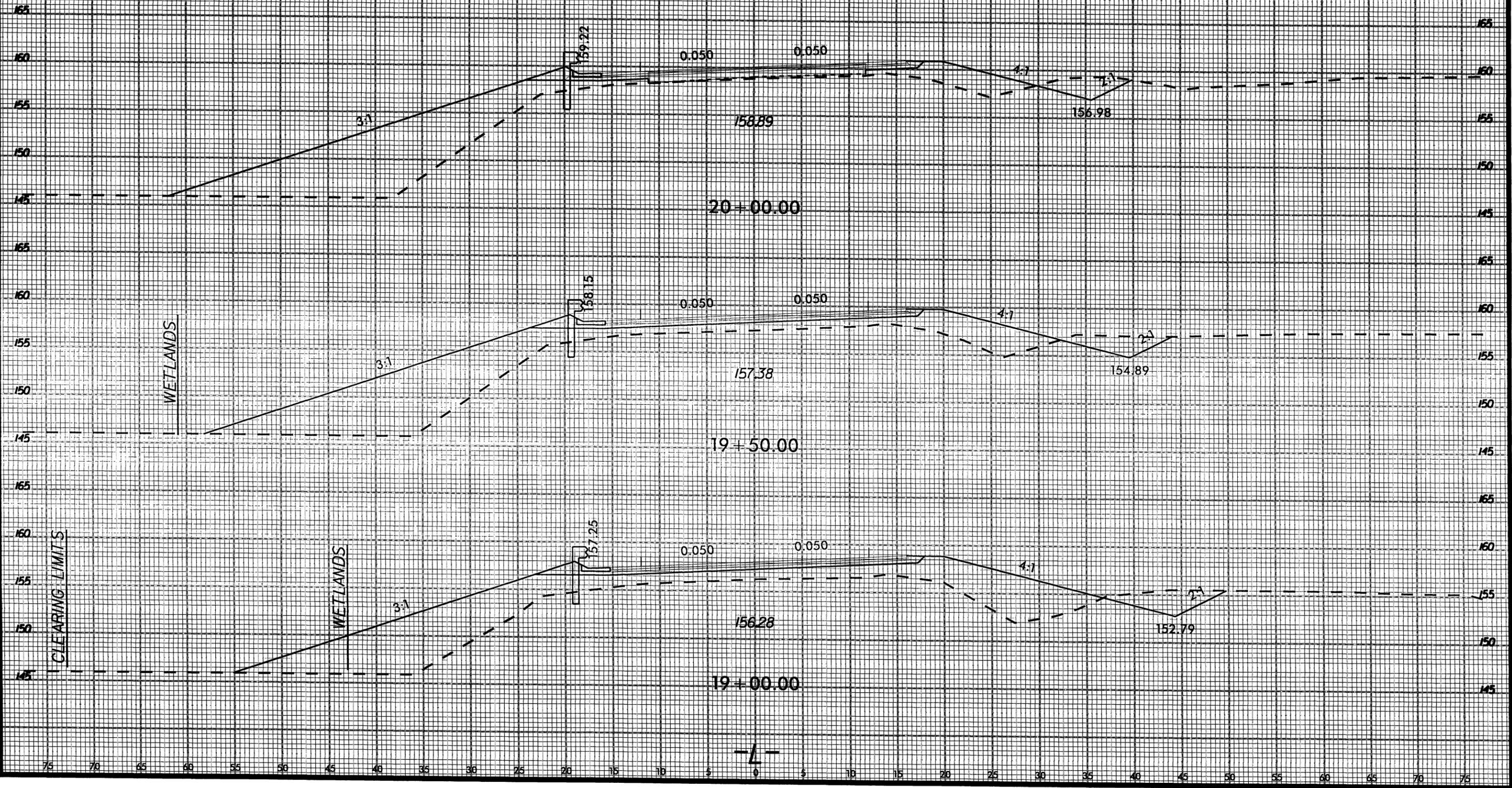
8/23/95



PROJ. REFERENCE NO. B-4556

SHEET NO. X-6

Permit Drawing  
Sheet 9 of 11



SYSTEM TIME  
DGN  
USER TIME

**OWNER'S NAME**

**ADDRESS**

① Black Creek Development Corp.Inc. 6081 NC Hwy 50 N  
Benson, NC 27504

② Williams, Roger Dale 6081 Highway 50 N  
Benson, NC 27504

⑤ Byrd, Victor 6620 NC Hwy 50  
Benson, NC 27504

⑥ Benson, Shelton 7583 NC Hwy 50 N  
Benson, NC 27504

Blank table rows for additional property owner information.

K:\RAL\_Roadway\01056081(B-4556)\Hydraulics\PERMITS\_Environmental\Drawings\B4556\_wetland\_property\_owner.sdg

6/28/2011

**PROPERTY OWNER  
NAME AND ADDRESS**

**B-4556** Permit Drawing  
Sheet 10 of 11

**NCDOT  
DIVISION OF HIGHWAYS  
JOHNSTON COUNTY**

**PROJECT: 33768.1.1 (B-4556)  
NC-50 BETWEEN  
I-40 AND SR 1309  
(OLD FAIRGROUND RD)**

06/27/2011



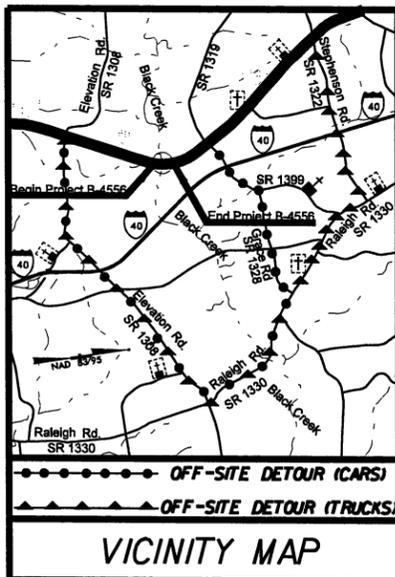
CONTRACT: TIP PROJECT: B-4556

See Sheet 1-A For Index of Sheets

STATE OF NORTH CAROLINA  
DIVISION OF HIGHWAYS  
**JOHNSTON COUNTY**

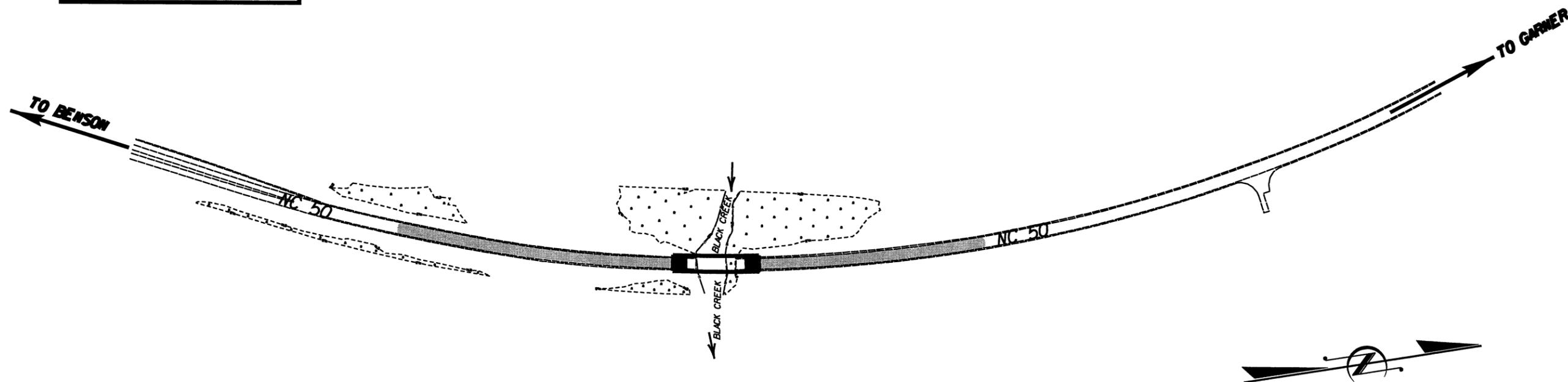
Buffer Drawing  
Sheet 1 of 8

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	B-4556	1	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	
33768.1.1	BRSTP-0050(7)	P.E.	



LOCATION: BRIDGE 74 OVER BLACK CREEK ON NC 50

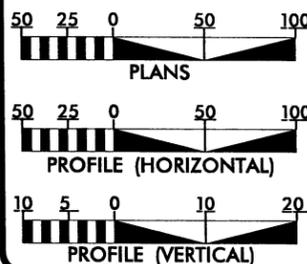
BUFFER IMPACT PACKAGE



THIS PROJECT IS NOT WITHIN ANY MUNICIPAL BOUNDARIES.  
THERE IS NO CONTROL OF ACCESS ON THIS PROJECT.  
CLEARING ON THIS PROJECT SHALL BE PERFORMED TO THE LIMITS ESTABLISHED BY METHOD III.

**INCOMPLETE PLANS**  
DO NOT USE FOR R/W ACQUISITION  
**PRELIMINARY PLANS**  
DO NOT USE FOR CONSTRUCTION

**GRAPHIC SCALES**



**DESIGN DATA**

ADT 2010 = 5681  
ADT 2030 = 10200  
DHV = 11 %  
D = 60 %  
T = 6 % \*  
V = 60 MPH  
CLASS = RURAL COLLECTOR  
\* TTST 2% DUAL 4%

**PROJECT LENGTH**

LENGTH ROADWAY TIP PROJECT B-4556 = 0.203 MILE  
LENGTH STRUCTURE TIP PROJECT B-4556 = 0.024 MILE  
TOTAL LENGTH TIP PROJECT B-4556 = 0.227 MILE

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

2006 STANDARD SPECIFICATIONS

RIGHT OF WAY DATE: TONY HOUSER, PE  
MARCH 20, 2009 PROJECT ENGINEER

LETTING DATE: BRUCE B. PAYNE, PE  
MARCH 16, 2010 PROJECT DESIGN ENGINEER

HYDRAULICS ENGINEER

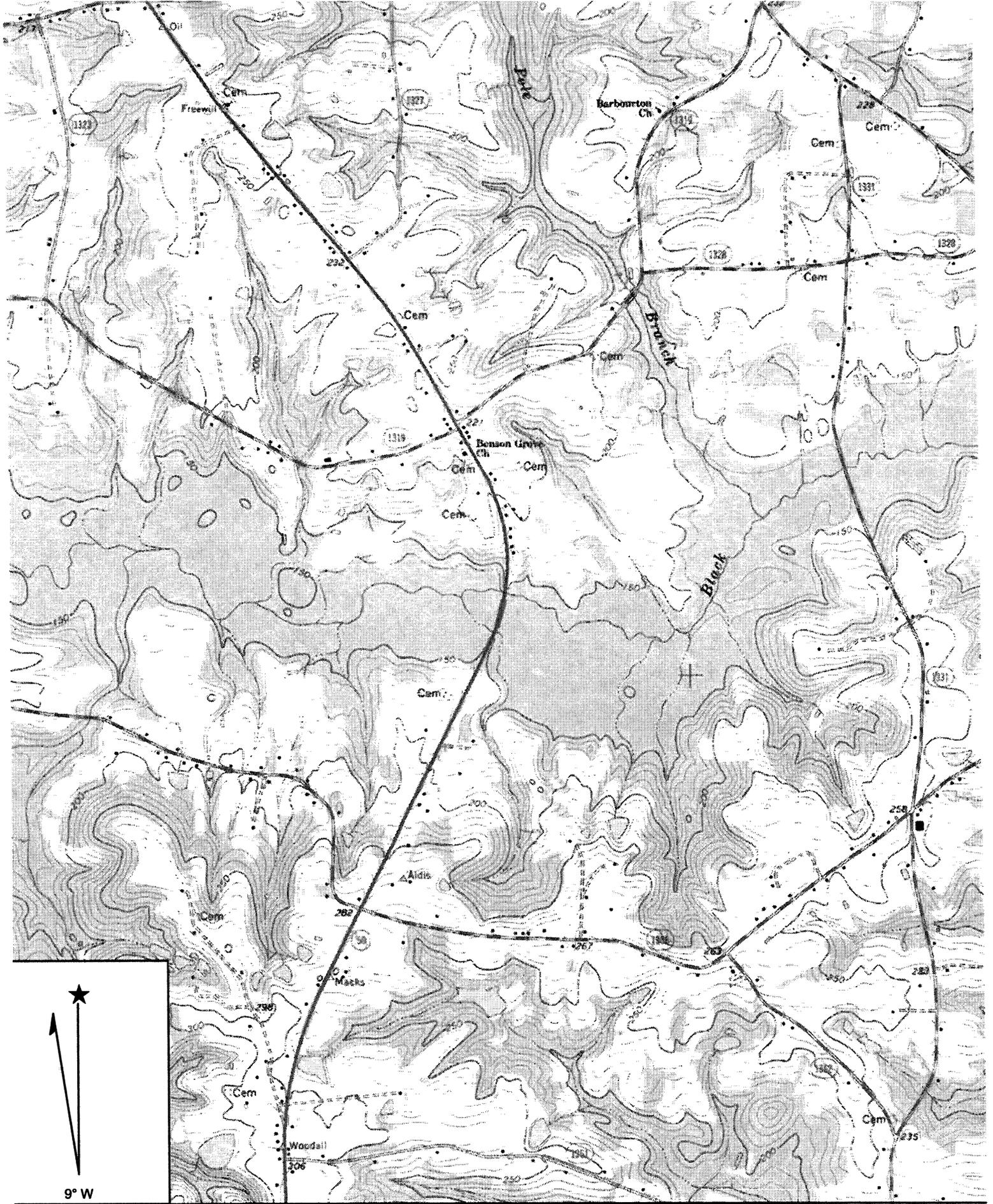
ROADWAY DESIGN ENGINEER

DIVISION OF HIGHWAYS  
STATE OF NORTH CAROLINA



STATE HIGHWAY DESIGN ENGINEER

\$\$\$\$\$ SYSTEM \$\$\$\$\$\$  
\$\$\$\$\$ USER NAME \$\$\$\$\$\$  
\$\$\$\$\$ DGN \$\$\$\$\$\$  
\$\$\$\$\$ \$\$\$\$\$\$

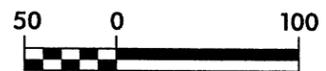


Name: BENSON  
Date: 4/19/2010  
Scale: 1 inch equals 2000 feet

Buffer Drawing  
Sheet 2 of 6

Location: 035° 27' 43.9" N 078° 33' 08.7" W  
Caption: Project 33768.1.1 (B-4556)  
Johnston County

8/17/99



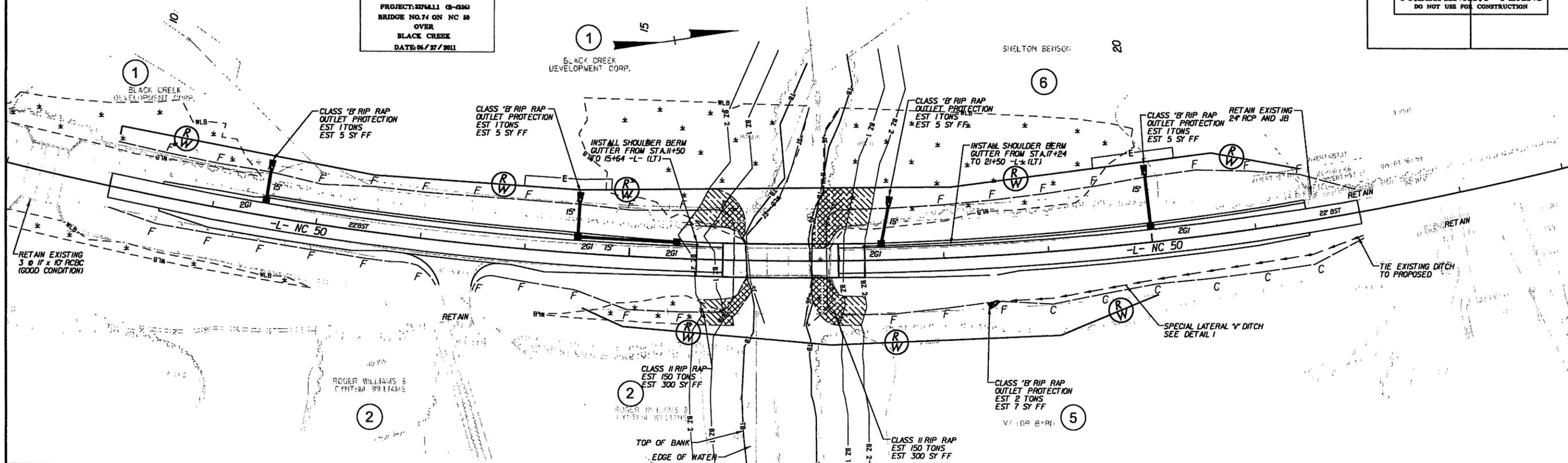
**ALLOWABLE IMPACTS ZONE 1**

**ALLOWABLE IMPACTS ZONE 2**

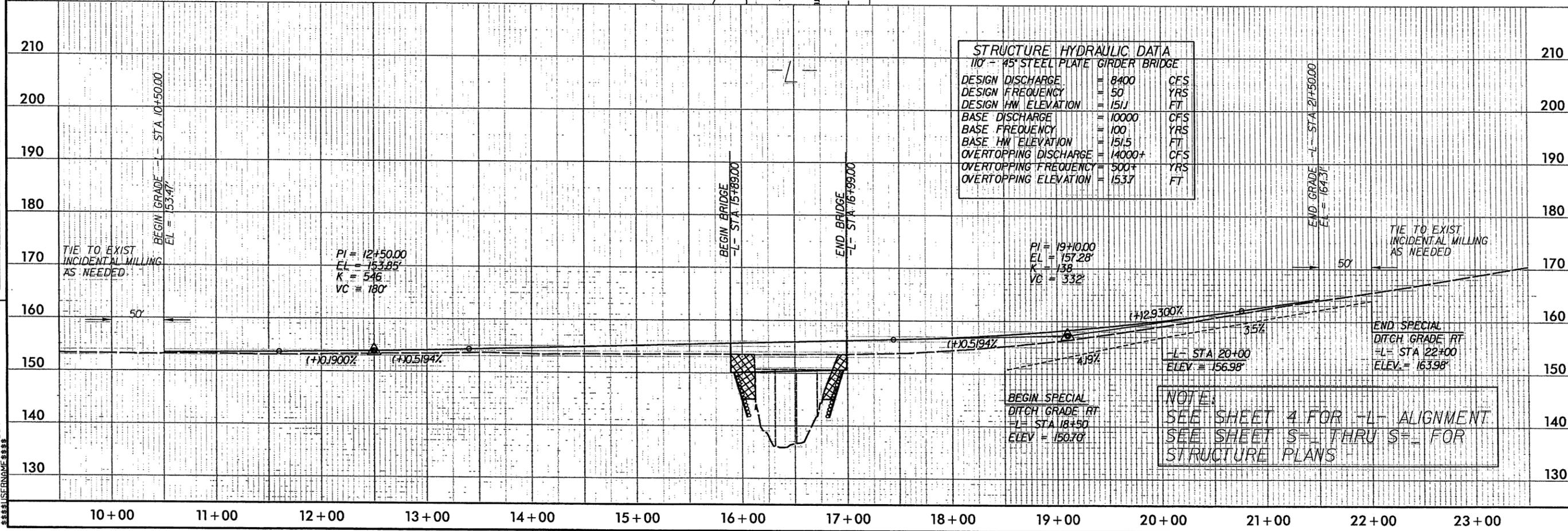
N. C. DEPT. OF TRANSPORTATION  
 DIVISION OF HIGHWAYS  
 JOHNSTON COUNTY  
 PROJECT: 87611 (B-4556)  
 BRIDGE NO. 74 ON NC 50  
 OVER  
 BLACK CREEK  
 DATE: 06/27/2011

PROJECT REFERENCE NO. B-4556	SHEET NO. 4
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
<b>INCOMPLETE PLANS</b> DO NOT USE FOR A/W ACQUISITION	
<b>PRELIMINARY PLANS</b> DO NOT USE FOR CONSTRUCTION	

Buffer Drawing  
 Sheet 3 of 8



STRUCTURE HYDRAULIC DATA	
110' - 45" STEEL PLATE GIRDER BRIDGE	
DESIGN DISCHARGE	= 8400 CFS
DESIGN FREQUENCY	= 50 YRS
DESIGN HW ELEVATION	= 1511 FT
BASE DISCHARGE	= 10000 CFS
BASE FREQUENCY	= 100 YRS
BASE HW ELEVATION	= 1515 FT
OVERTOPPING DISCHARGE	= 14000+ CFS
OVERTOPPING FREQUENCY	= 500+ YRS
OVERTOPPING ELEVATION	= 1537 FT

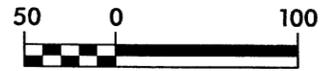


**NOTE:**  
 SEE SHEET 4 FOR -L- ALIGNMENT  
 SEE SHEET S-1 THRU S-4 FOR  
 STRUCTURE PLANS

REVISIONS

\*\*\*\*\*  
 SYSTEMS  
 \*\*\*\*\*

8/17/99



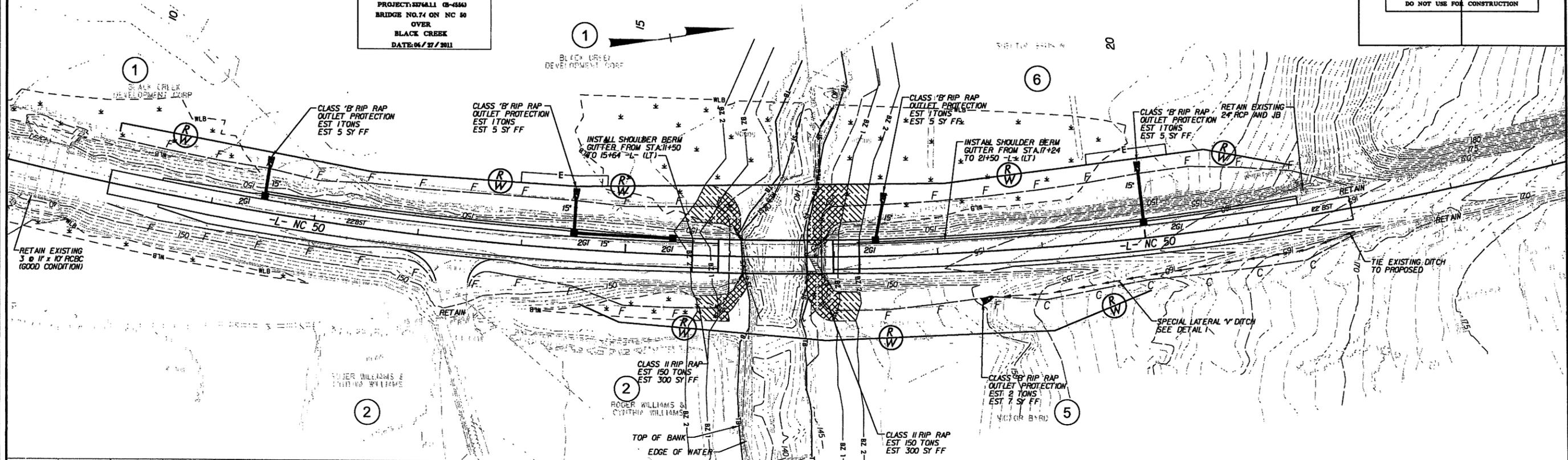
ALLOWABLE IMPACTS ZONE 1

ALLOWABLE IMPACTS ZONE 2

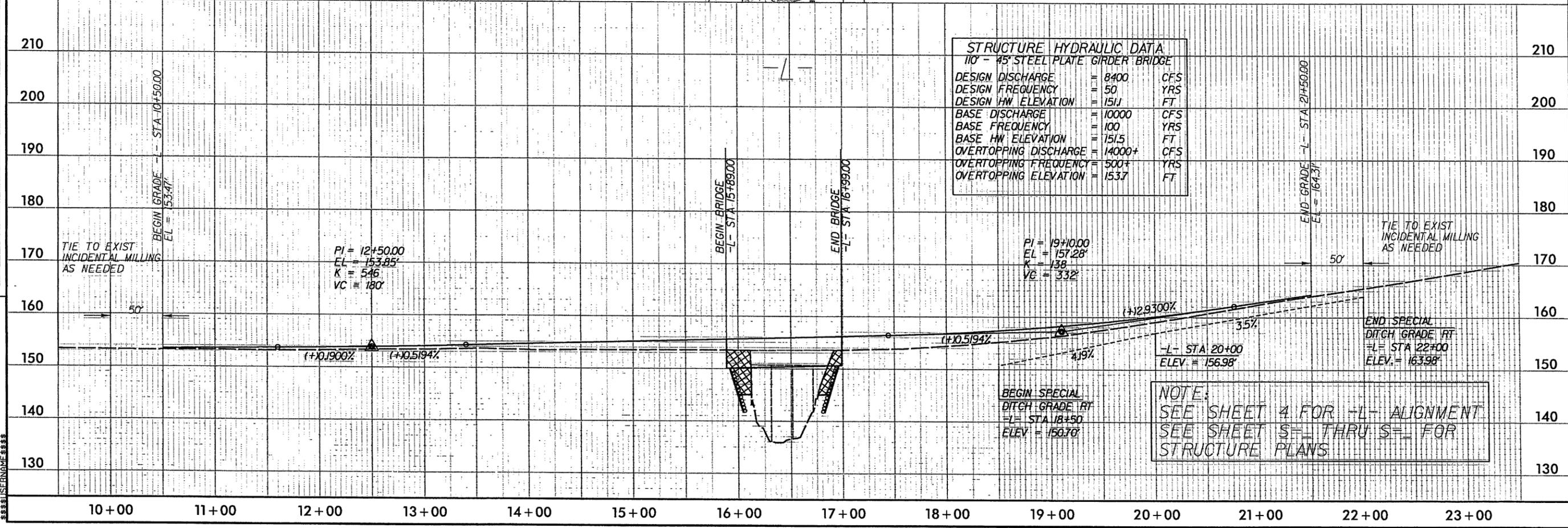
N. C. DEPT. OF TRANSPORTATION  
 DIVISION OF HIGHWAYS  
 JOHNSTON COUNTY  
 PROJECT: 876611 (B-4556)  
 BRIDGE NO. 74 ON NC 50  
 OVER  
 BLACK CREEK  
 DATE: 06/27/2011

PROJECT REFERENCE NO. B-4556	SHEET NO. 4
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
<b>INCOMPLETE PLANS</b> DO NOT USE FOR A/W ACQUISITION <b>PRELIMINARY PLANS</b> DO NOT USE FOR CONSTRUCTION	

Buffer Drawing  
 Sheet 4 of 8



REVISIONS



NOTE:  
 SEE SHEET 4 FOR -L- ALIGNMENT  
 SEE SHEET 5 thru 8 FOR  
 STRUCTURE PLANS







# WETLANDS IN BUFFER IMPACTS SUMMARY

SITE NO.	STATION (FROM/TO)	WETLANDS IN BUFFERS	
		ZONE 1 (ft <sup>2</sup> )	ZONE 2 (ft <sup>2</sup> )
	15+53/16+09 (LT)	651	699
	15+65/16+16 (RT)	112	365
	16+74/17+36 (LT)	1520	727
	16+73/17+25 (RT)	571	0
<b>TOTAL:</b>		2854	1791

Buffer Drawing  
Sheet 8 of 8

N.C. DEPT. OF TRANSPORTATION  
DIVISION OF HIGHWAYS  
JOHNSTON COUNTY  
PROJECT: 33768.1.1 (B-4556)

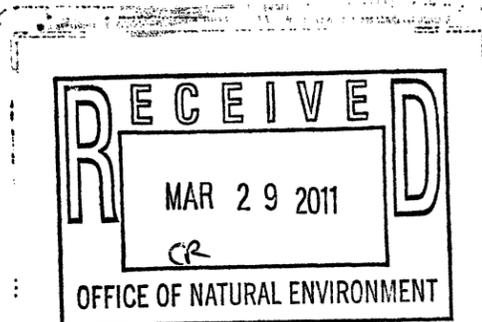
6/27/2011

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	B-4556	1	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	
33768.1.1	BRSTP-0050(7)	P.E.	
33768.2.1	BRSTP-0050(7)	R/W, UTL	

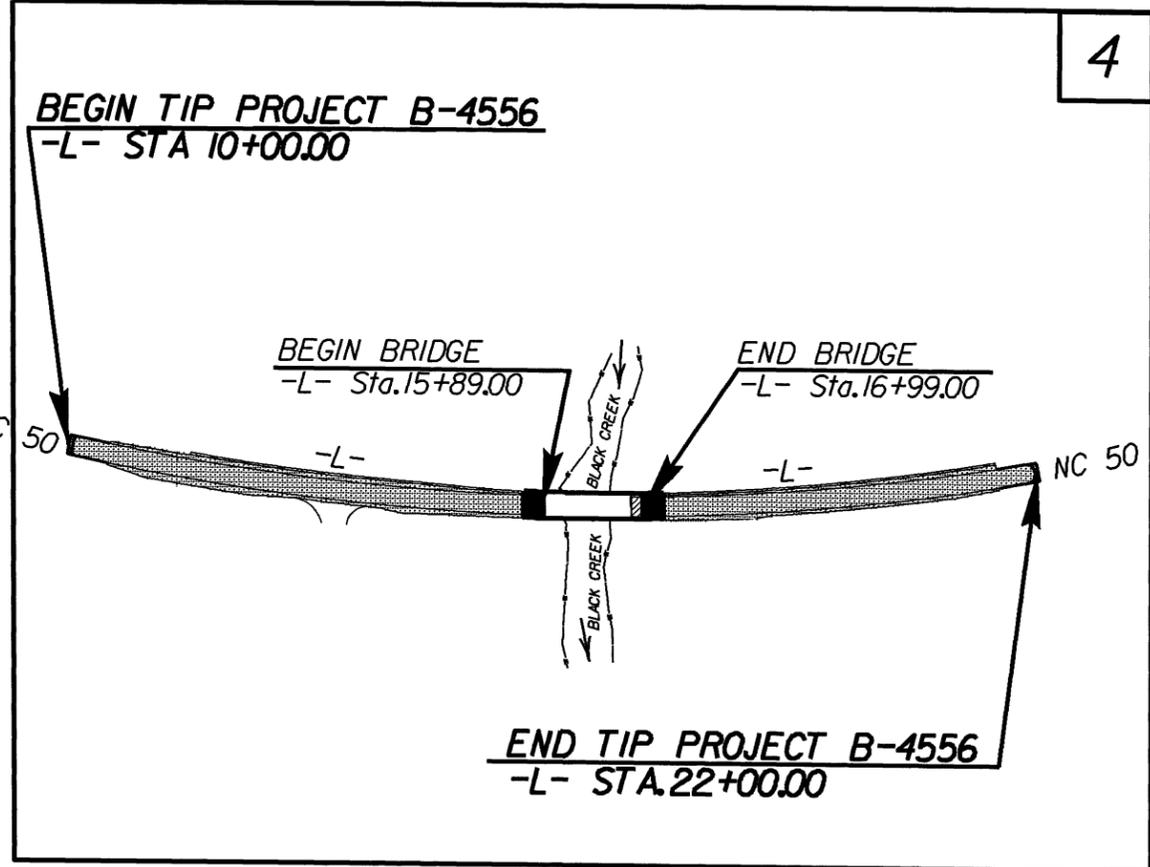
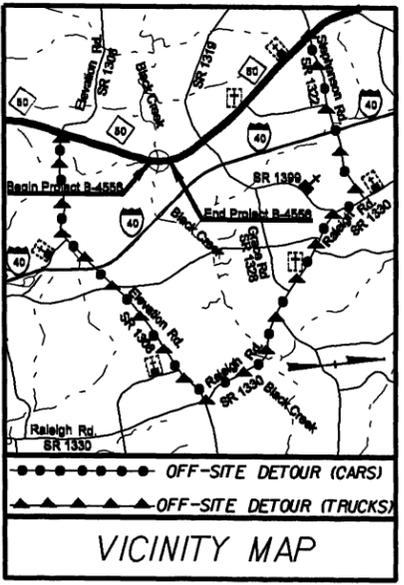
STATE OF NORTH CAROLINA  
 DIVISION OF HIGHWAYS  
**JOHNSTON COUNTY**

LOCATION: BRIDGE 74 OVER BLACK CREEK ON NC 50

TYPE OF WORK: GRADING, DRAINAGE, PAVING,  
 AND STRUCTURE



See Sheet 1-A For Index of Sheets

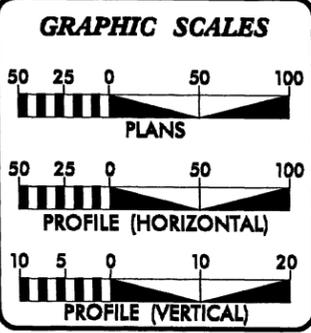


THIS PROJECT IS NOT WITHIN ANY MUNICIPAL BOUNDARIES.  
 THERE IS NO CONTROL OF ACCESS ON THIS PROJECT.  
 CLEARING ON THIS PROJECT SHALL BE PERFORMED TO THE LIMITS ESTABLISHED BY METHOD III.

PRELIMINARY PLANS

CONTRACT: TIP PROJECT: B-4556

CONTRACT: TIP PROJECT: B-4556



**DESIGN DATA**

ADT 2010 =	5681
ADT 2030 =	10200
DHV =	11 %
D =	60 %
T =	6 % *
V =	60 MPH
FUNCTIONAL CLASS =	RURAL COLLECTOR
* TTST 2%	DUAL 4%
REGIONAL TIER	

**PROJECT LENGTH**

LENGTH ROADWAY TIP PROJECT B-4556 =	0.206 MILE
LENGTH STRUCTURE TIP PROJECT B-4556 =	0.021 MILE
TOTAL LENGTH TIP PROJECT B-4556 =	0.227 MILE

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

2006 STANDARD SPECIFICATIONS

RIGHT OF WAY DATE:  
 NOVEMBER 30, 2010

LETTING DATE:  
 DECEMBER 20, 2011

TONY HOUSER, PE  
 PROJECT ENGINEER

BRUCE B. PAYNE, PE  
 PROJECT DESIGN ENGINEER

HYDRAULICS ENGINEER

ROADWAY DESIGN ENGINEER

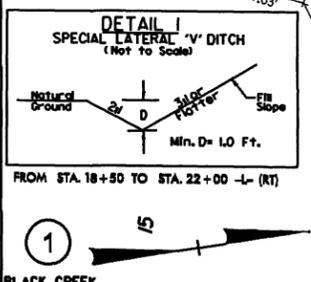
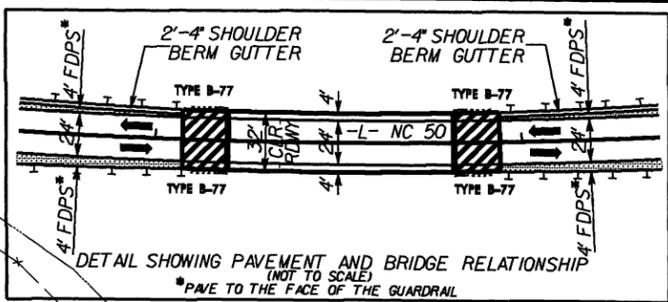
SIGNATURE: \_\_\_\_\_

SIGNATURE: \_\_\_\_\_

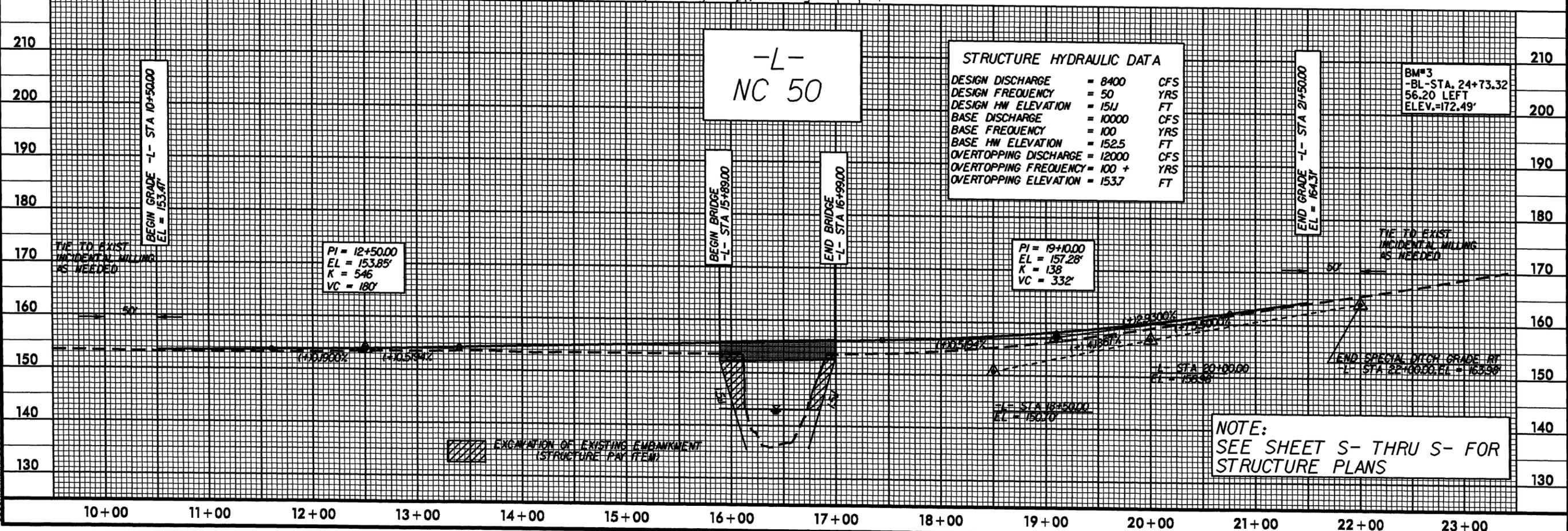
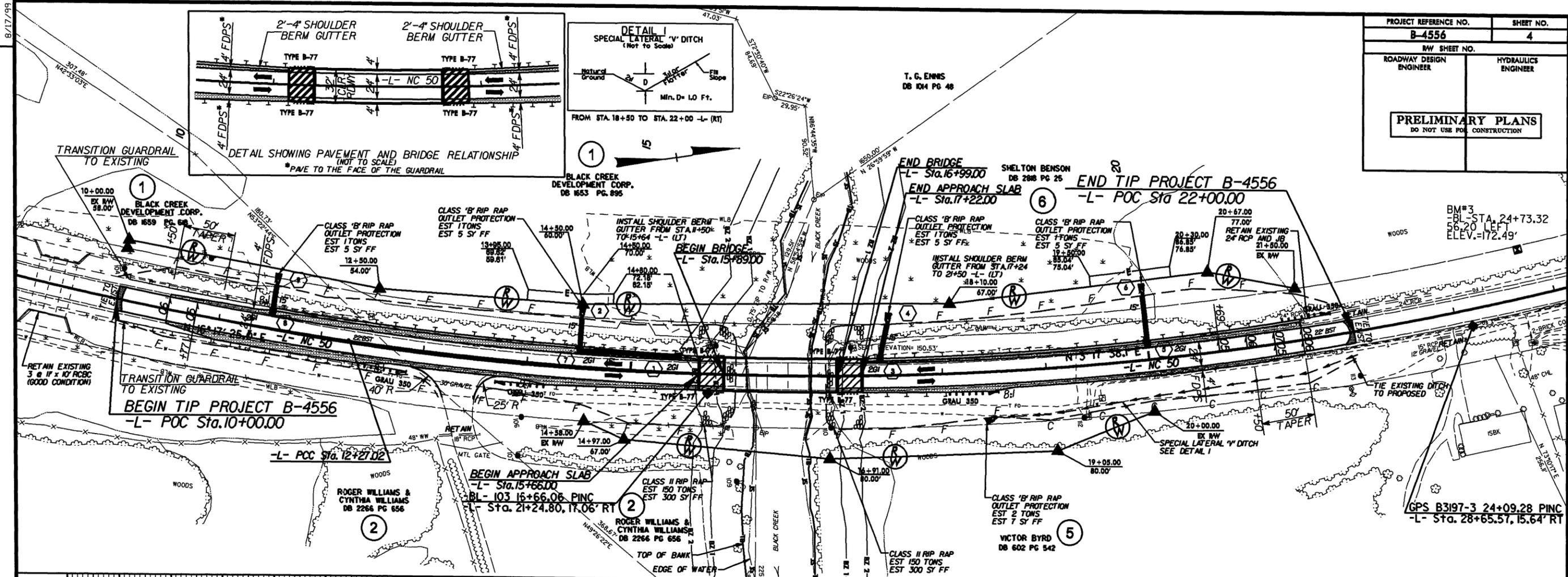
DIVISION OF HIGHWAYS  
 STATE OF NORTH CAROLINA

STATE HIGHWAY DESIGN ENGINEER

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 \$\$\$SERVNAME\$\$\$



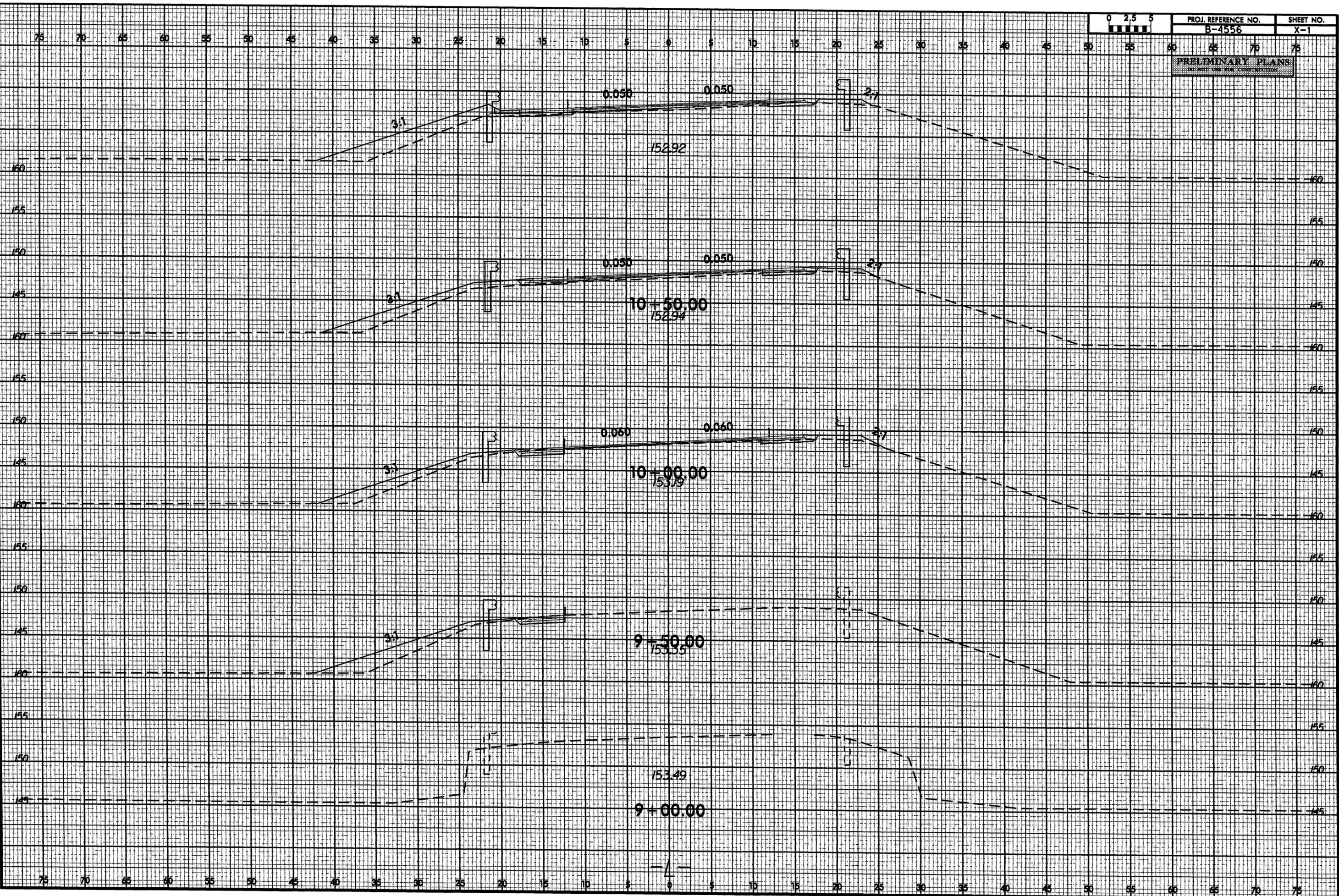
RIGHT OF WAY REVISION - CHANGED PARCEL NO.3 TO NO.1, CHANGED PARCEL NO.4 TO NO.2, ADDED TEMPORARY CONSTRUCTION EASEMENTS AT -L- STATIONS 13+95 AND 19+50, LEFT OF CENTERLINE, TO PROVIDE ROOM TO CONSTRUCT TWO EROSION CONTROL BASINS. BBP-11/02/25



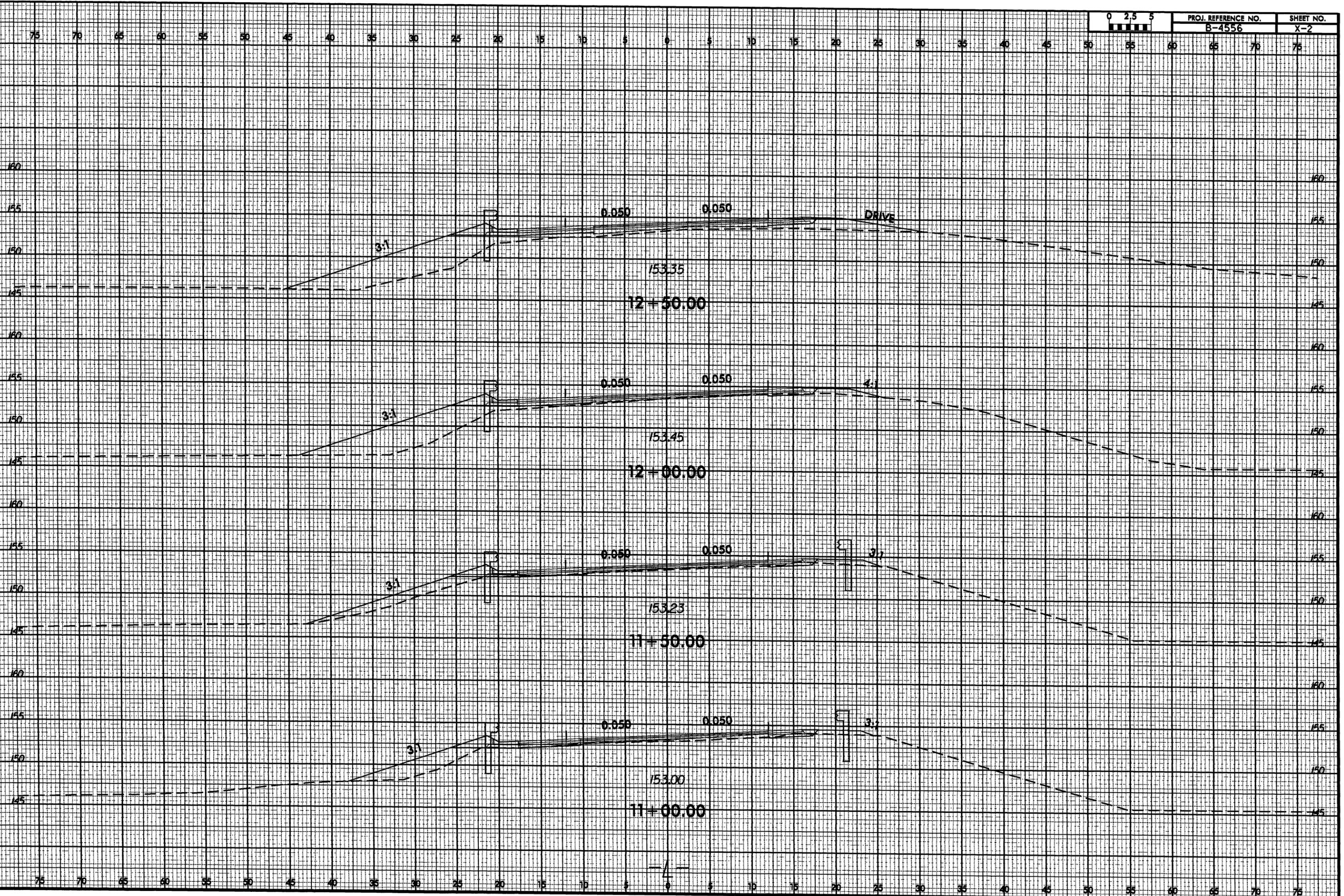
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PRELIMINARY PLANS



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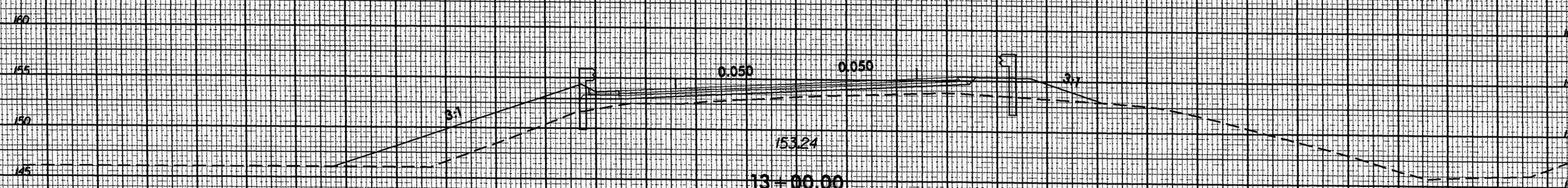
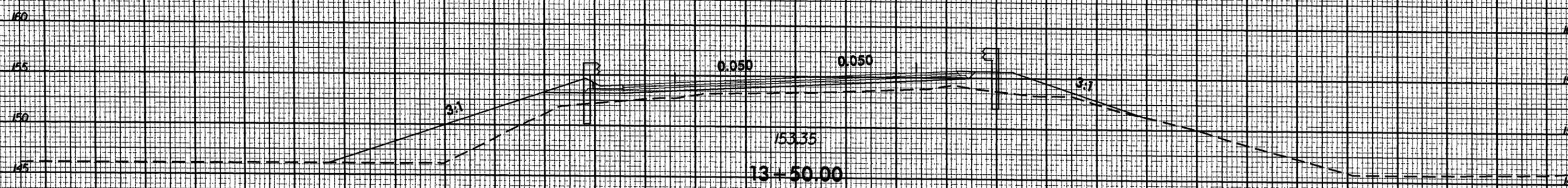
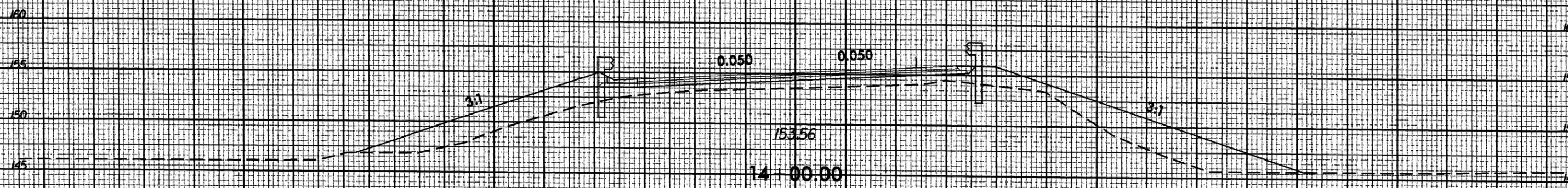
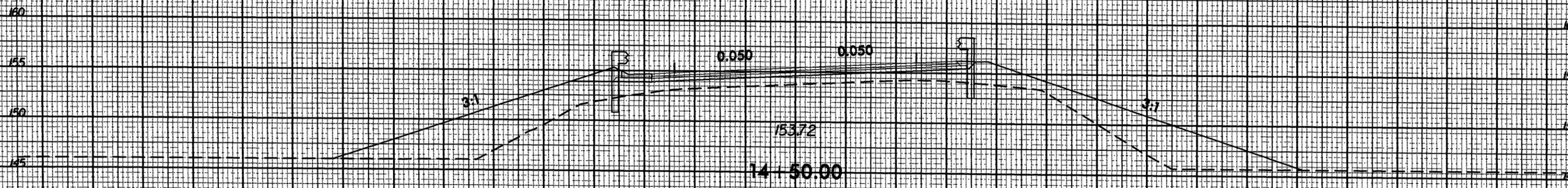


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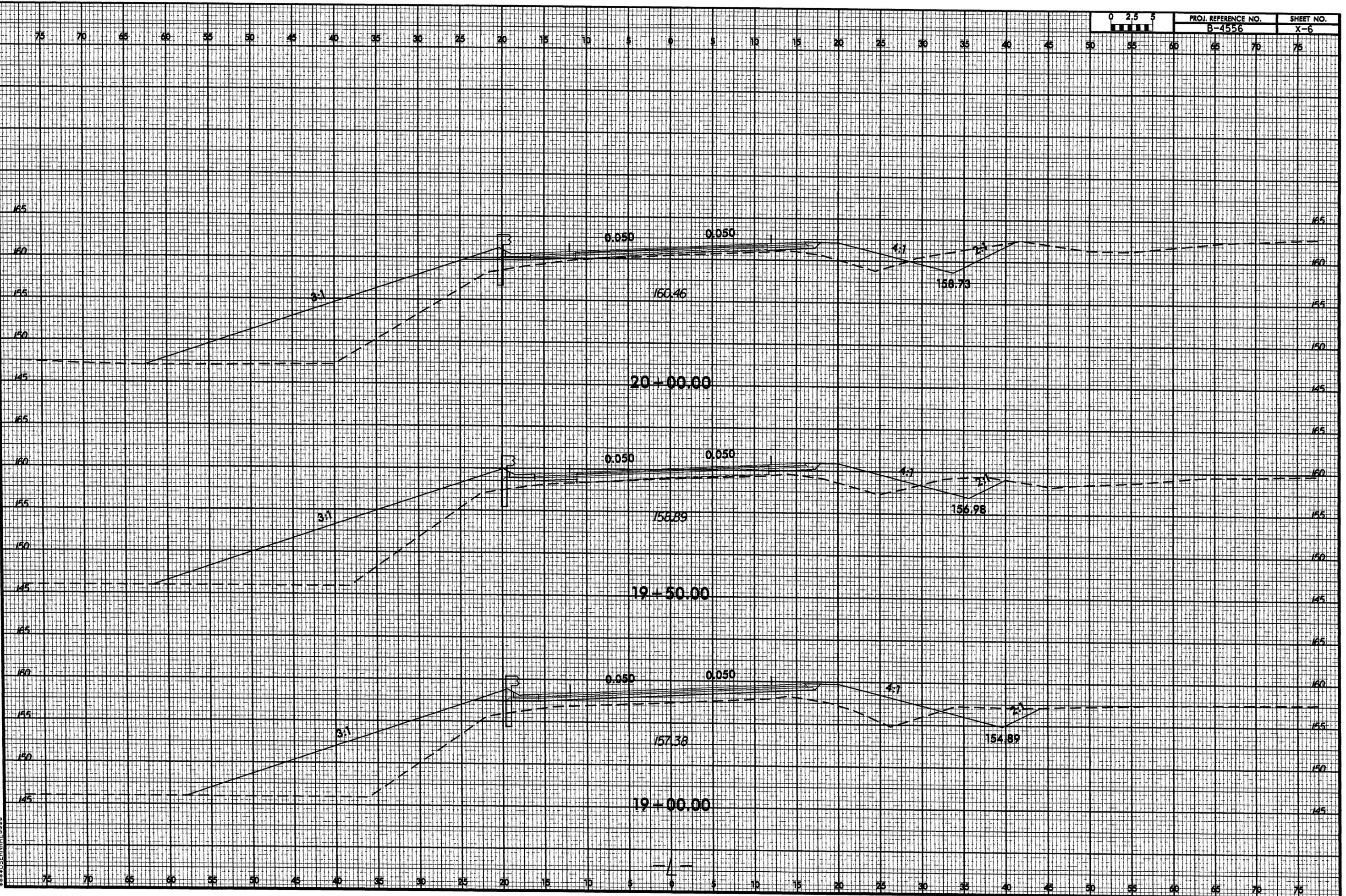
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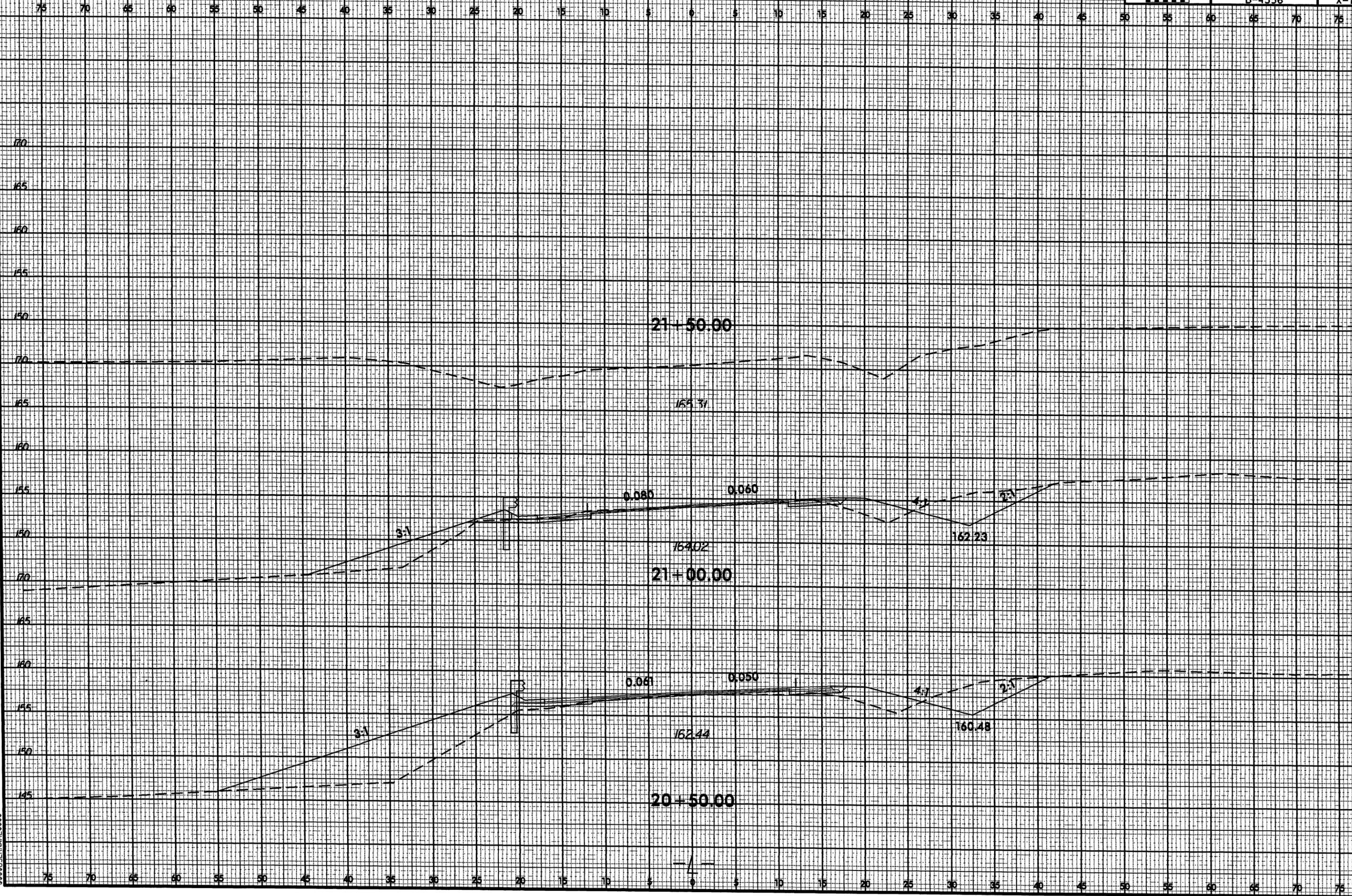
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PROJ. REFERENCE NO.  
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