



STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION

BEVERLY EAVES PERDUE
GOVERNOR

EUGENE A. CONTI, JR.
SECRETARY

February 23, 2012

Mr. Ronnie Smith
U. S. Army Corps of Engineers
Regulatory Field Office
69 Darlington Avenue
Wilmington, NC 28403

Dear Sir:

Subject: **Application for Section 404 Nationwide Permits (NWP) 23 & 12 & Section 401 Water Quality Certification** for the replacement of Bridge No. 120 over the Black River on SR 1558 in Harnett County; TIP Project B-4543; Federal Aid Project No. BRSTP-1558(2); Debit \$240 from WBS 33758.1.1.

Please find enclosed PCN, permit drawings, utility drawings, stormwater management plan, and roadway plans for the above referenced project proposed by the North Carolina Department of Transportation (NCDOT). A Programmatic Categorical Exclusion (PCE) was completed for this project on January 13, 2010 and distributed shortly thereafter. Additional copies are available upon request. The NCDOT proposes to replace existing Bridge No. 120 over the Black River SR 1558 in Harnett County. The project involves replacement of the existing functionally obsolete and structurally deficient four span 70-foot bridge and approaches with a new two span 105-foot bridge. The new bridge will feature a 22-foot pavement width, with two 11-foot lanes and 4-foot offsets. The approach roadway will extend approximately 180 feet from the northwest end of the new bridge and 155 feet from the southeast end of the new bridge. The approaches will be widened to include a 22-foot pavement width, providing two 11-foot lanes and six-foot grass shoulders.

Proposed permanent impacts to riparian wetlands from bridge construction are 0.05 acre for fill, 0.01 acre for excavation and 0.03 acre for mechanized clearing. Traffic will be detoured off-site during construction.

This project calls for a letting date of November 20, 2012 and a review date of October 2, 2012; however, the let date may advance as additional funding becomes available.

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

TELEPHONE: 919-707-6100

FAX: 919-212-5785

WEBSITE: WWW.NCDOT.ORG

LOCATION:

1020 BIRCH RIDGE DRIVE
RALEIGH NC 27610-4328

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 NWP 23 for bridge construction and NWP 12 for utility impacts. (72 CFR; 11092-11198, March 12, 2007).

Section 401 Permit: We anticipate 401 General Certification numbers 3701 and 3819 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 five copies of this application to the NCDWQ for their approval.

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 Gordon Cashin at (919) 707-6107.

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	or General Permit (GP) number:		
1c. Has the N WP 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 type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
1g. Is the project located in any of NC's twenty coastal counties. If yes, answer 1h below.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
1h. Is the project located within a NC DCM Area of Environmental Concern (AEC)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		

2. Project Information

2a. Name of project:	Replacement of Bridge 120 over the Black River on SR 1558		
2b. County:	Harnett		
2c. Nearest municipality / town:	Coats		
2d. Subdivision name:	not applicable		
2e. NCDOT only, T.I.P. or state project no:	B-4543		

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) 707-6107		
3g. Fax no.:	(919) 431-2002		
3h. Email address:	gcashin@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: 35.425012 (DD.DDDDDDD)	Longitude: -78.646896 (-DD.DDDDDDD)
1c. Property size:	0.65 acres	
2. Surface Waters		
2a. Name of nearest body of water (stream, river, etc.) to proposed project:	Black River	
2b. Water Quality Classification of nearest receiving water:	C Sw	
2c. River basin:	Cape Fear River Basin	
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:	Forested with some agricultural and residential	
3b. List the total estimated acreage of all existing wetlands on the property:	20.8	
3c. List the total estimated linear feet of all existing streams (intermittent and perennial) on the property:	886	
3d. Explain the purpose of the proposed project:	To replace a structurally deficient bridge.	
3e. Describe the overall project in detail, including the type of equipment to be used:	The project involves replacing a 70-foot bridge with a 105-foot, 2-span bridge on the existing alignment with an off-site detour. Standard road building equipment, such as trucks, dozers, and cranes will be used.	
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: Requesting a preliminary JD at permitting	<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 type="checkbox"/> Final	
4c. If yes, who delineated the jurisdictional areas? Name (if known): Matt Smith	Agency/Consultant Company: ESI Other:	
4d. If yes, list the dates of the Corps jurisdictional determinations or State determinations and attach documentation. Richard Spencer verified the wetlands on July 15, 2008, but no tearsheet was issued.		
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):						
<input checked="" type="checkbox"/> Wetlands		<input checked="" type="checkbox"/> Streams - tributaries		<input type="checkbox"/> Buffers		
<input type="checkbox"/> Open Waters		<input type="checkbox"/> 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 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	0.05	
Site 2 <input checked="" type="checkbox"/> P <input type="checkbox"/> T	excavation.	riparian	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Corps <input type="checkbox"/> DWQ	0.01	
Site 3 <input checked="" type="checkbox"/> P <input type="checkbox"/> T	mechanized clearing	riparian	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Corps <input type="checkbox"/> DWQ	0.03	
Site 4 <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 5 <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 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		
2g. Total wetland impacts					0.09 Perm. 0.0 Temporary	
2h. Comments: There will be 0.11 ac of hand clearing due to utility relocation and 0.07 ac due bridge construction to as well 0.01 ac. of temporary fill in wetlands in the hand clearing areas for the installation of erosion control measures, including temporary silt fence and/or special sediment control fence. There will also be <0.01 ac of fill in wetlands due to installation of a utility pole.						
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					0.0 Perm 0.0 Temp	

3i. Comments: There will be <0.01 ac of fill in surface waters due to bent installation.

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:

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	Excavat ed	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 longer than the existing bridge with fewer spans; the proposed bridge will be at approximately the same grade as the existing structure; an off site detour will be used. Slopes of 2:1 will be constructed in wetlands.				
1b. Specifically describe measures taken to avoid or minimize the proposed impacts through construction techniques. Top-down construction, Best Management Practices for the Protection of Surface Waters will be implemented.				
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 type="checkbox"/> Yes <input checked="" type="checkbox"/> No If no, explain: Due to the minimal amount of impacts, compensatory mitigation is not proposed.				
2b. If yes, mitigation is required by (check all that apply): <input type="checkbox"/> DWQ <input type="checkbox"/> Corps				
2c. If yes, which mitigation option will be used for this project? <input type="checkbox"/> Mitigation bank <input 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) <table border="1" style="display: inline-table;"><tr><td>Type</td><td>Quantity</td></tr></table>			Type	Quantity
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 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: 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.				

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?				<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	
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 no, 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.		
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 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
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 checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
5c. If yes, indicate the USFWS Field Office you have contacted.	<input checked="" 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?	USFWS County Site, NC Natural Heritage site	
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		
Dr. Gregory J. Thorpe, Ph D Applicant/Agent's Printed Name	E. L. Lusk _____ Applicant/Agent's Signature (Agent's signature is valid only if an authorization letter from the applicant is provided.)	7-22-12 _____ Date

Gordon
12/7/11
Hornett

B-4543 NEU Narrative

Utility Owners:

- **Power:** Progress Energy – (contact: Mr. J. B. Jones 910-259-1966)

General Utility Relocation:

The power pole line inside the project limits will be relocated away from the construction limits. The power pole line will be relocated prior to the letting.

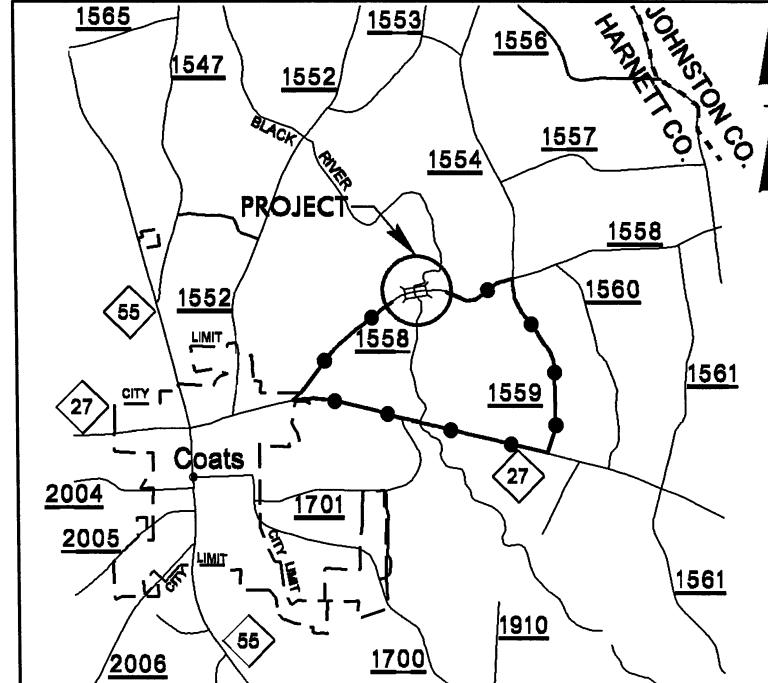
Existing Utilities:

- **Power:** the existing Progress Energy power pole line is right (south side) of Line-L .

Proposed Utility Relocation:

- **Power:** Progress Energy will relocate the power pole line along the proposed R/W line on the right (south side) of Line-L- from Sta. 11+13 to Sta. 18+18.



TIP PROJECT: B-4543**VICINITY MAP**

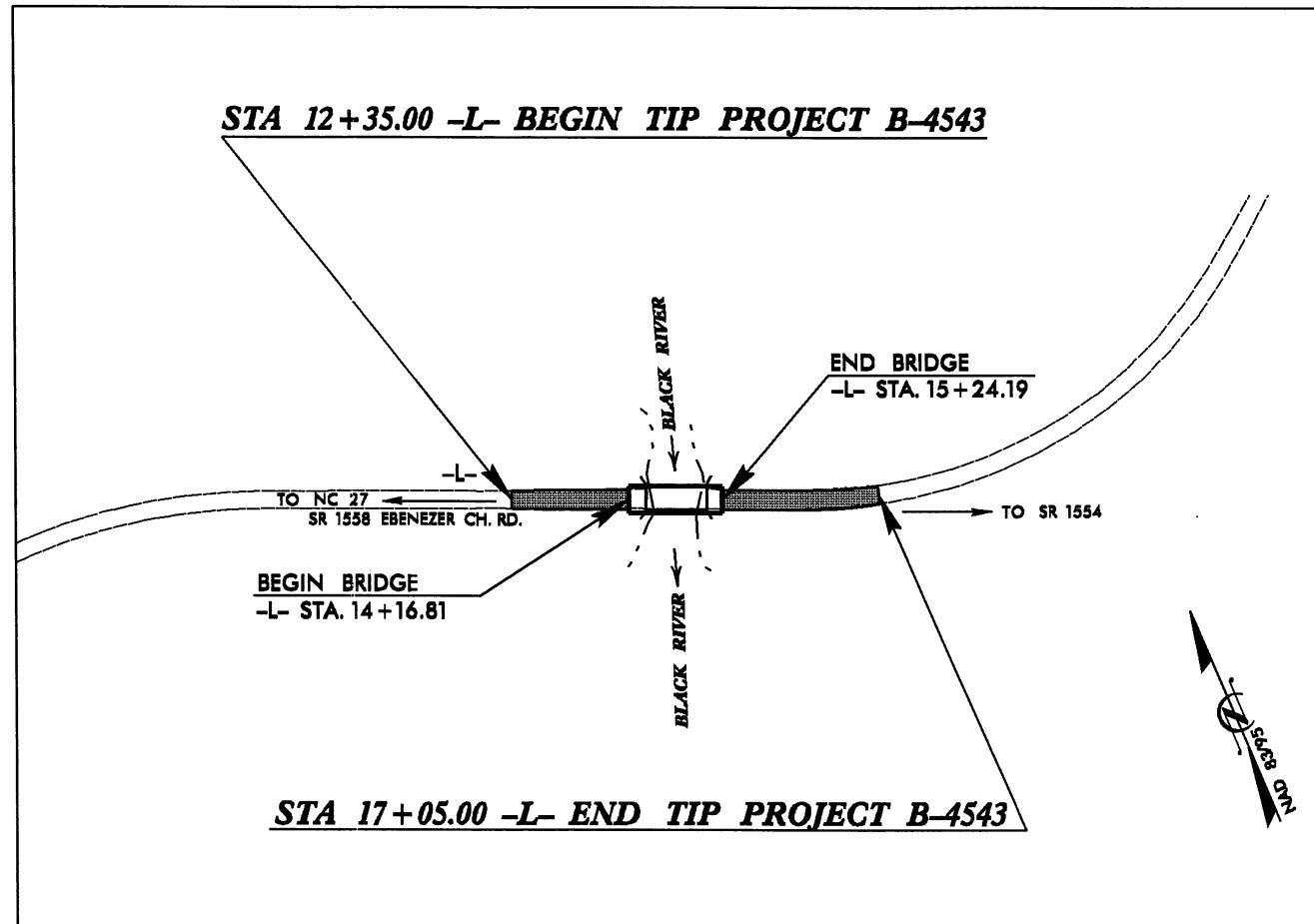
—●— DETOUR ROUTE

**STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS**

**NEU PERMIT PLANS (12/11)
HARNETT COUNTY**

**LOCATION: BRIDGE NO. 120 OVER THE BLACK RIVER
ON SR 1558 (EBENEZER CHURCH ROAD)**

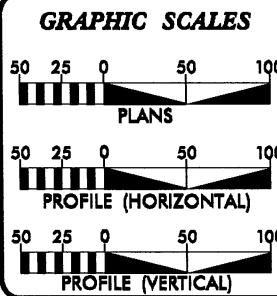
TYPE OF WORK: RELOCATE AERIAL POWER LINE



T.I.P. NO.	SHEET NO.
B-4543	UO-1

Utility Permit Drawing
Sheet 1 of 3

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

**INDEX OF SHEETS****SHEET NO.****DESCRIPTION**

UO-1

TITLE SHEET

UO-2

PLAN SHEET

UTILITY OWNERS ON PROJECT

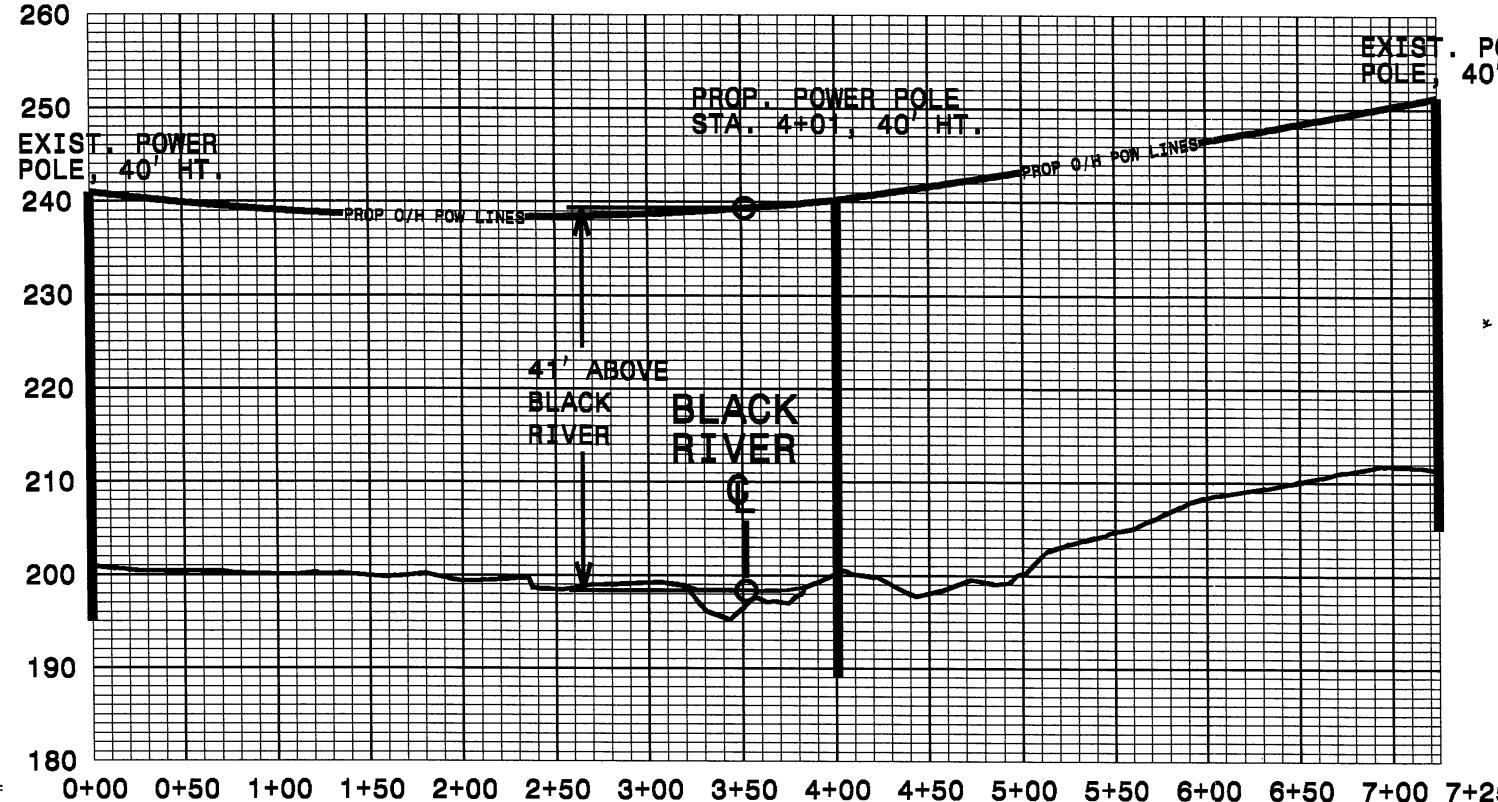
(1) PROGRESS ENERGY - POWER



PREPARED IN THE OFFICE OF:
DIVISION OF HIGHWAYS
UTILITIES ENGINEERING
SECTION
151 MAIL SERVICES CENTER
RALEIGH NC 27605-1591
PHONE (919) 250-4228
FAX (919) 250-4219

Roger Worthington, P.E.	UTILITIES SECTION ENGINEER
Corey Bousquet, P.E.	UTILITIES SQUAD LEADER PROJECT ENGINEER
Nabil Hamdan	UTILITIES PROJECT DESIGNER

PROPOSED POWER LINE PROFILE



EXIST. POWER POLE, 40' HT.

PROP. POWER POLE STA. 4+01, 40' HT.

PROP. O/H PWR LINES

41' ABOVE BLACK RIVER

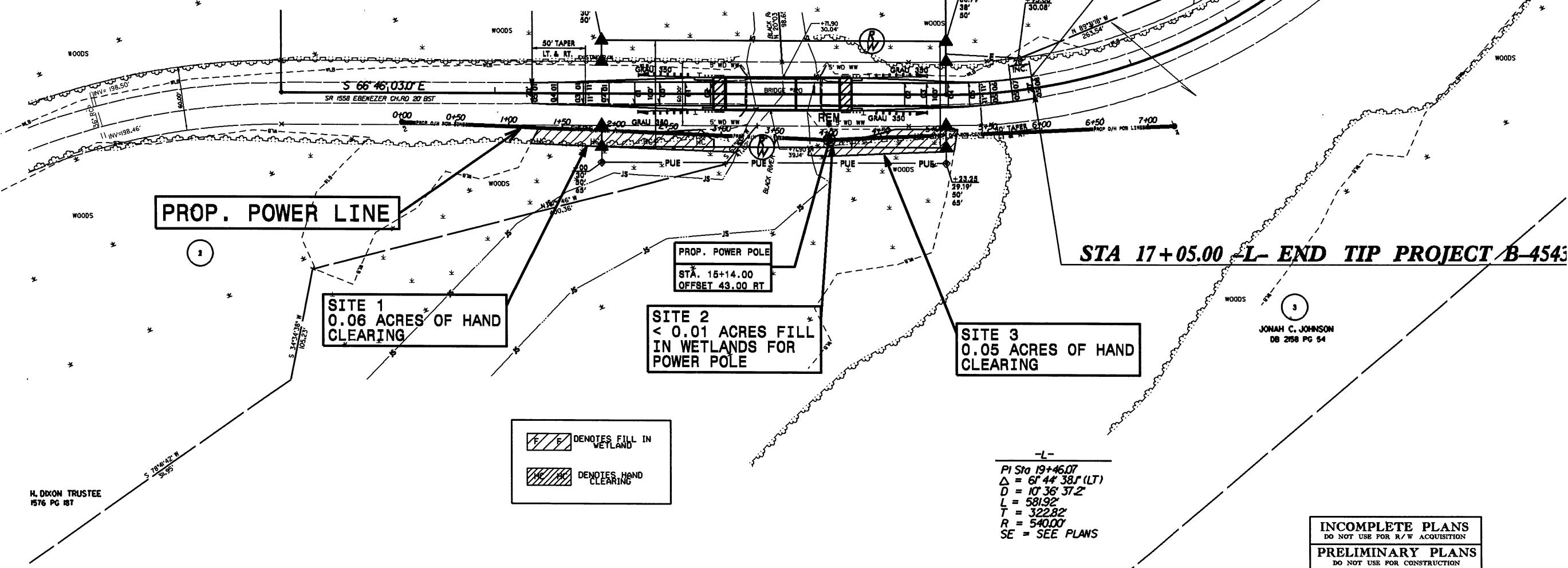
BLACK RIVER

0+00 0+50 1+00 1+50 2+00 2+50 3+00 3+50 4+00 4+50 5+00 5+50 6+00 6+50 7+00 7+25

Utility Permit Drawing
Sheet 2 of 3

UTILITIES BY OTHERS

NOTE:
ALL PROPOSED UTILITY WORK
SHOWN ON THIS SHEET WILL
BE DONE BY OTHERS



-L-

PI Sta 19+46.07
 $\Delta = 6^{\circ} 44' 38''$ (LT)
 $D = 10^{\circ} 36' 37''$
 $L = 581.92'$
 $T = 322.82'$
 $R = 540.00'$
 $SE = SEE PLANS$

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

WETLAND PERMIT IMPACT SUMMARY

**Utility Permit Drawing
Sheet 3 of 3**

NC DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

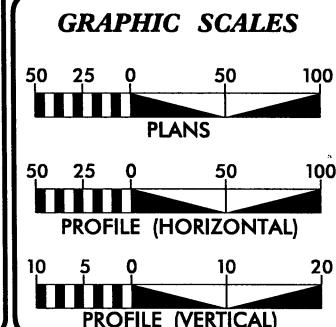
WBS - 33758.1.1 (B-4543)
COUNTY

ATN Revised 3/31/05

CONTRACT:

TIP PROJECT: B-4543

PROJECT IS NOT WITHIN ANY MUNICIPAL BOUNDARIES.
CARRYING ON THIS PROJECT SHALL BE PERFORMED TO THE LIMITS ESTABLISHED BY METHOD II.
REGIONAL TIER DESIGN GUIDELINES FOR BRIDGE PROJECTS WERE USED TO DEVELOP THIS PROJECT.



DESIGN DATA

ADT 2012 = 1433
 ADT 2032 = 2174
 DHV = 10 %
 D = 60 %
 T = 3 %
 V = 50 MPH

FUNC. CLASS = RURAL
 LOCAL
 * TTST 1% DUAL 2

PROJECT LENGTH

<p><i>Prepared in the Office of:</i></p> <p>DIVISION OF HIGHWAYS</p> <p><i>1000 Birch Ridge Dr., Raleigh NC, 27610</i></p>	
<p>6 STANDARD SPECIFICATIONS</p>	
<p>RIGHT OF WAY DATE:</p> <p><u>JANUARY 8, 2010</u></p>	<p>GARY LOVERING,</p> <p><u>PROJECT ENGINEER</u></p>
<p>LETTING DATE:</p> <p><u>NOVEMBER 20, 2012</u></p>	<p>KEVIN E. MOORE,</p> <p><u>PROJECT DESIGN ENGINEER</u></p>

HYDRAULICS ENGINEER

P.E.

SIGNATURE: _____

ROADWAY DESIGN
ENGINEER

P.E.

The seal is circular with a black border. Inside the border, the words "DIVISION OF HIGHWAYS" are at the top and "STATE OF NORTH CAROLINA" are at the bottom. The center of the seal features a stylized white map of North Carolina with a winding white line representing a highway or river.

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS



STATE	STATE PROJECT REFERENCE NO.	sheet no.	total sheets
N.C.	B-4543	1	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	
33758.1.1	BRSTP-1558(2)	PE	
33758.2.1	BRSTP-1558(2)	RW, UTIL.	
33758.3.1	BRSTP-1558(2)	CONST.	

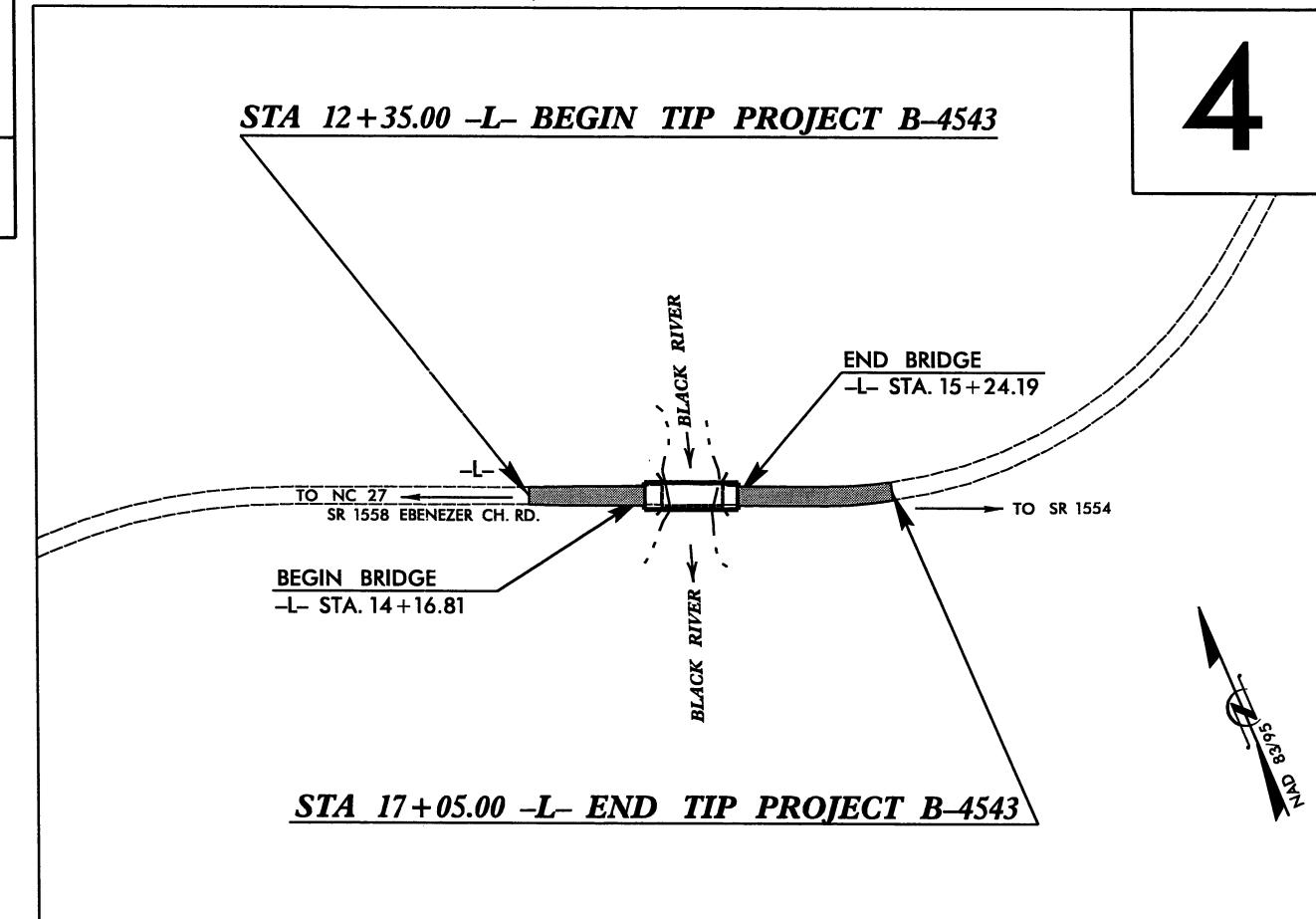
Permit Drawing
Sheet 1 of 10

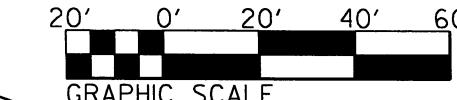
HARNETT COUNTY

**LOCATION: BRIDGE NO. 120 OVER THE BLACK RIVER ON
SR 1558 (EBENEZER CHURCH RD)**

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

WETLAND/SURFACE WATER PERMIT DWG.





GRAPHIC SCALE

**15" w/2 ELBOWS
ROD & LUG
W/SLEEVE GASKET**

FILL IN WETLAND

Digitized by srujanika@gmail.com

100

PUE -

**CL. II RIP RAP
TO SHLDR PT. ELEV.
(STRUCTURE PAY ITEM)**

EXCAVATE TO N.G.

۲۷

Permit Drawing
Sheet 4 of 10

138

REFERENCE NO.		SHEET NO.
<u>2-4543</u>		<u>ENLARGE</u>
R/W SHEET NO.		
AY DESIGN INEER	HYDRAULICS ENGINEER	
RELIMINARY PLANS		
DO NOT USE FOR CONSTRUCTION		

ENLARGEMENT

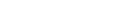
REVISIONS

WOOD

NC GRID
NAD 83/95

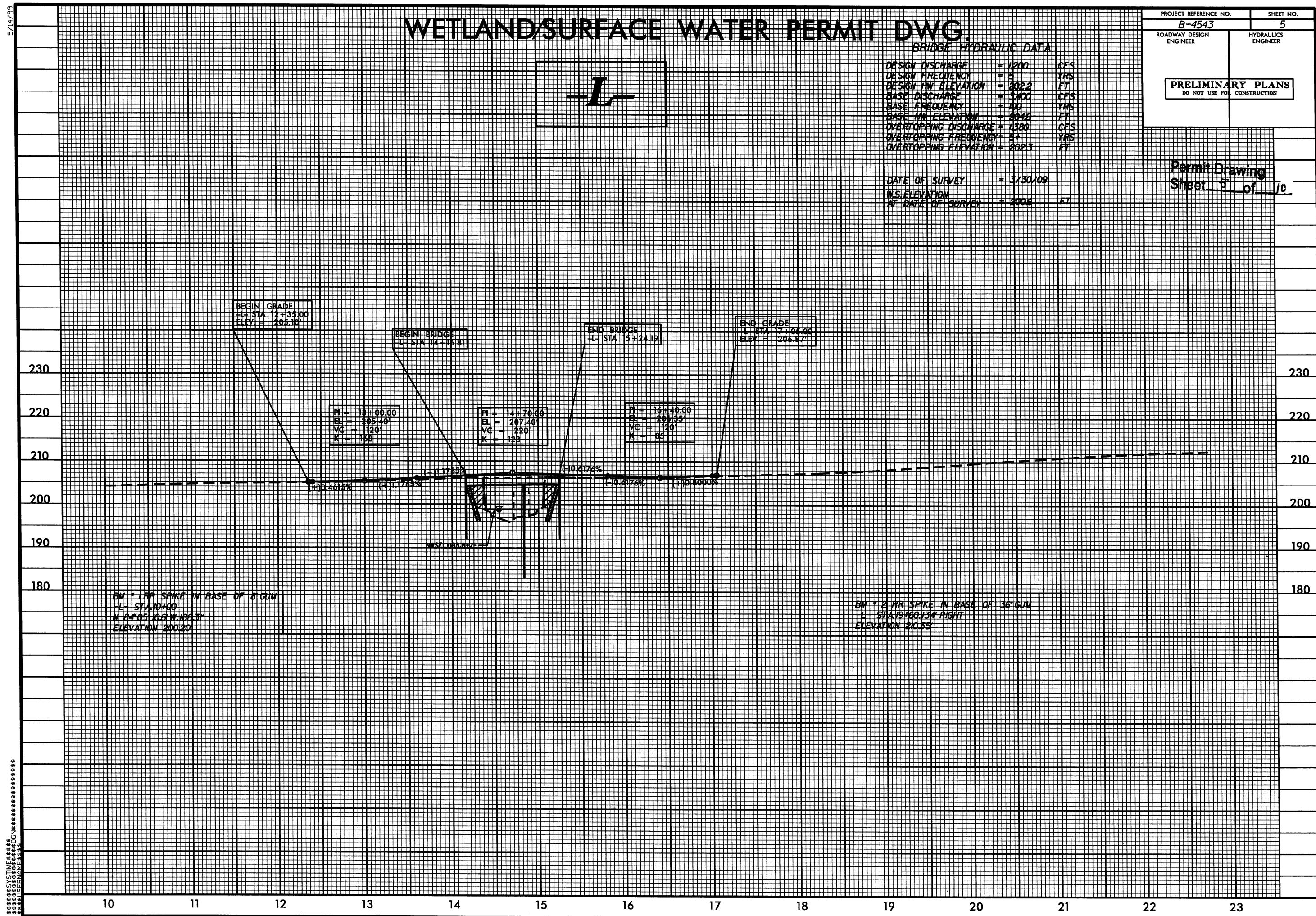
SITE

 F 3 F DENOTES FILL IN WETLAND

 DENOTES EXCAVATION
IN WETLAND

A rectangular box with diagonal hatching, containing the letters "HC" twice.

DENOTES MECHANIZED
CLEARING



WETLAND/SURFACE WATER PERMIT DWG.

PROJ. REFERENCE NO. B-4543 SHEET NO. X-1

8/23/99

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

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

Permit Drawing
Sheet G of 10

CLEARING LIMITS
w1a w1a
0.019 0.019
264.65
5.5. 199.36

CLEARING LIMITS
w1a w1a
0.002 0.002
201.59
13 + 00.00

CLEARING LIMITS
w1a w1b
0.010 0.023
205.25
13 + 00.00

CLEARING LIMITS
w1b w1b
0.010 0.044
265.63
5.5. 203.40
12 + 50.00

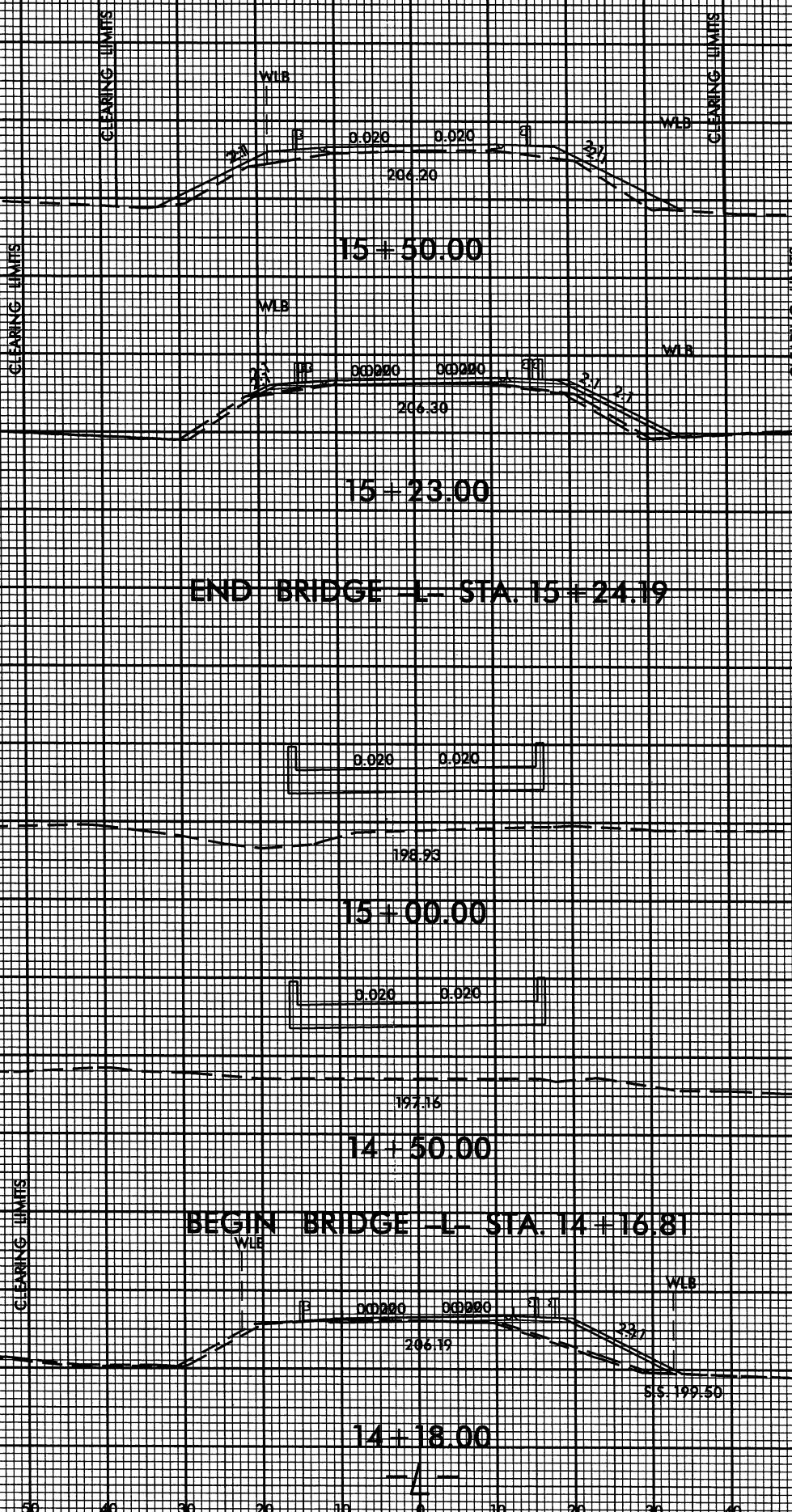
CLEARING LIMITS
w1b w1b
0.010 0.050
265.60
5.5. 203.44
12 + 35.00

BEGIN PROJECT -L- STA 12 + 35.00

12 + 00.00

PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION

Permit Drawing
Sheet 7 of 10



Permit Drawing
Sheet 8 of 10

204.91

END PROJECT -L- STA. 17 + 05.00

17 05.00

17 + 00.00

14 : 50.00

A 10x10 grid of black squares on a white background, representing a 100-unit area for measurement.

EARLY HISTORICAL

B-4543 Harnett Co.
Property Owner Information

Last Name	First Name	Address	City/Town	State	Zip Code	Whom Contacted	Relationship	County(s)	Tax Map	Deed Book	Page (DB1)
POPE	BOBBY	19 SILAS MOORE ROAD	COATS	NC	27521	MR. POPE		Harnett	1601-74-9760.000	2038	940
DIXON, TRUSTEE & BENJAMIN VANCE DIXON TRUST	ROBERT HAROLD	PO BOX 849	COATS	NC	27521089	ROBERT DIXON	TRUSTEE	Harnett	1600-59-4873.000	1576	187
JOHNSON, JR.	JONAH C.	1383 JOHNSON ROAD	COATS	NC	27521	MR. JOHNSON		Harnett	1601-7-5238.000	2158	54
JOHNSON, JR.	JONAH C.	1383 JOHN ROAD	COATS	NC	27521	MR. JOHNSON		Harnett	1600-69-5266.000	2158	54

Permit Drawing
Sheet 9 of 10

STORMWATER MANAGEMENT PLAN
FOR B-4543, HARNETT CO.

Prepared by Brook Anderson
MAY 28, 2009

ROADWAY DESCRIPTION

The project involves the replacement of Bridge No. 120 on SR 1558 over Black River. The overall length of the project is 0.09 mi. (500 ft.).

ENVIRONMENTAL DESCRIPTION

The project is located in the Cape Fear River Basin. Black River is classified as Class C Sw. There are no buffers on the project. Wetlands are located in all four quadrants and will have some impacts due to this project.

BEST MANAGEMENT PRACTICES AND MAJOR STRUCTURES

Best Management Practices (BMPs) and measures used on the project to reduce stormwater impacts are listed below.

BRIDGE/CULVERT

The existing bridge is a four span 70 ft. bridge with vertical timber abutments. The existing bridge is being replaced with a two span, 105 ft. bridge. The proposed bridge will span the channel. Deck drains will be omitted over the channel and will be placed in the overbank areas only.

MISC

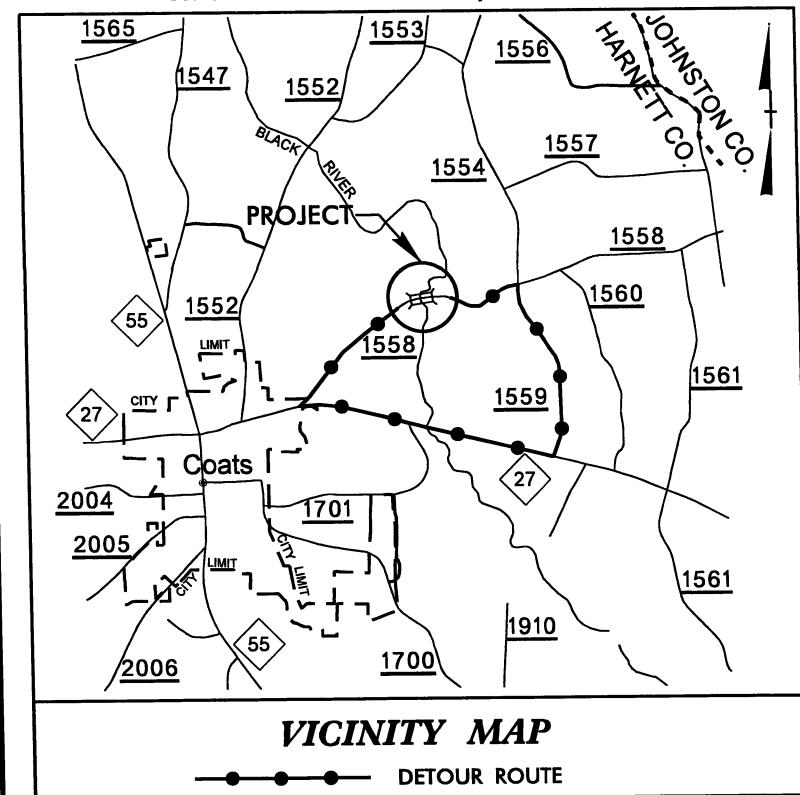
The only ditch that will be impacted by the proposed project is in the southeast quadrant. Currently, this ditch turns to sheet flow as it enters the wetlands approximately 100 feet east of the existing bridge. Due to topography, the best option at this location was to maintain the existing ditch geometry and ditch grade. This allows for current drainage patterns to be maintained and minimal impacts to the wetlands in the vicinity.

Sheet flow was maintained in all other quadrants.

Fill slopes will be 3:1, in accordance with the geotechnical design units recommendations, and will impact some wetlands. The impacted areas are small in comparison to the total area of the wetlands.

CONTRACT:

TIP PROJECT: B-4543



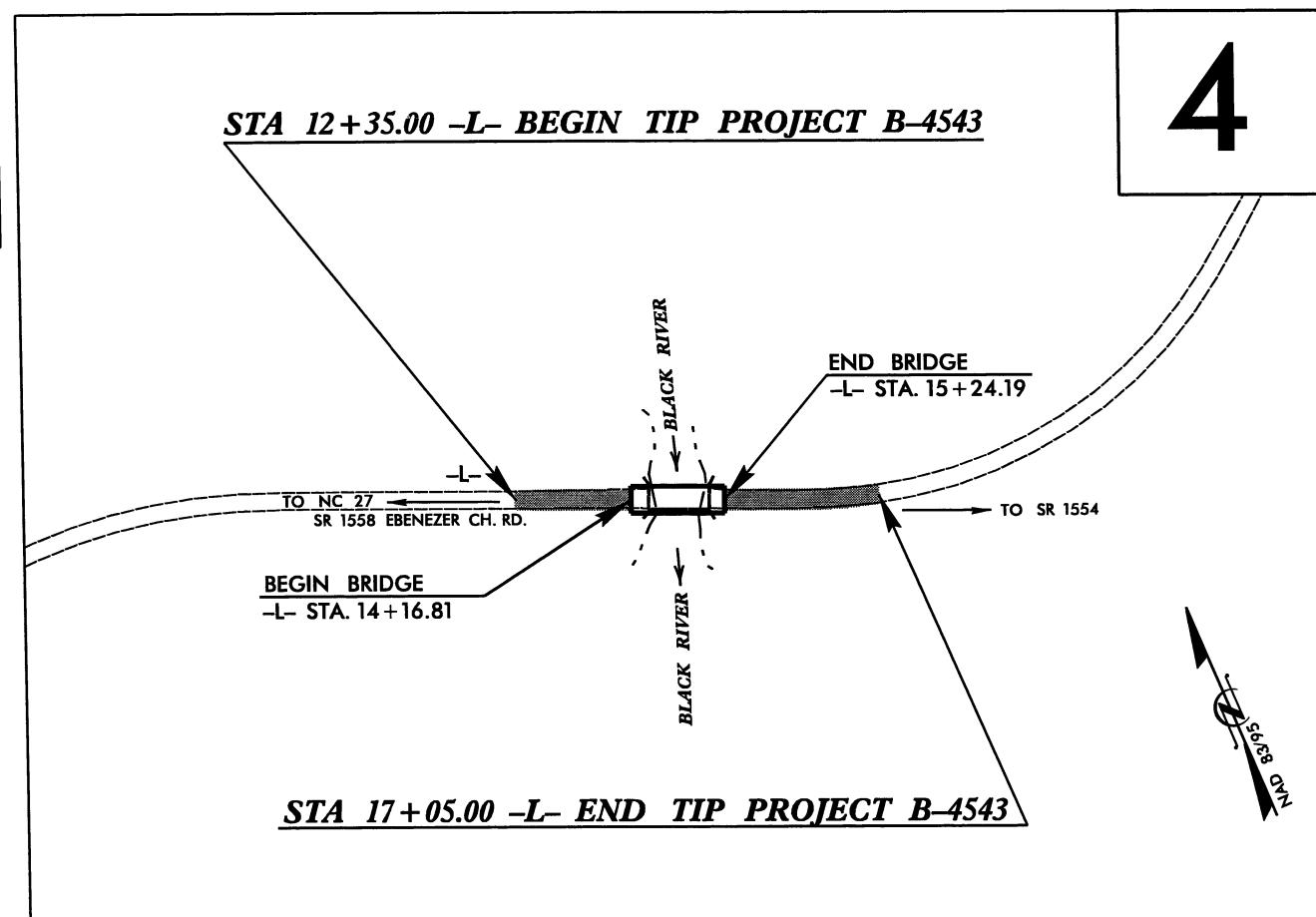
STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

HARNETT COUNTY

**LOCATION: BRIDGE NO. 120 OVER THE BLACK RIVER ON
SR 1558 (EBENEZER CHURCH RD)**

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

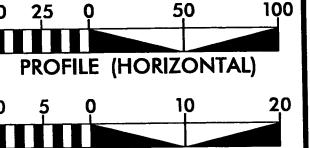
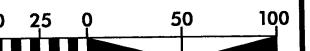
STATE	STATE PROJECT REFERENCE NO.	SHRIFT NO.	TOTAL SHEETS
N.C.	B-4543	1	
STATE PROJ. NO.	P.A. PROJ. NO.	DESCRIPTION	
33758.1.1	BRSTP-1558(2)	PE	
33758.2.1	BRSTP-1558(2)	RW, UTIL.	
33758.3.1	BRSTP-1558(2)	CONST.	



THIS PROJECT IS NOT WITHIN ANY MUNICIPAL BOUNDARIES.
CLEARING ON THIS PROJECT SHALL BE PERFORMED TO THE LIMITS ESTABLISHED BY METHOD II.
SUB REGIONAL TIER DESIGN GUIDELINES FOR BRIDGE PROJECTS WERE USED TO DEVELOP THIS PROJECT.

PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION

GRAPHIC SCALES



DESIGN DATA

ADT 2012 = 1433
ADT 2032 = 2174
DHV = 10 %
D = 60 %
T = 3 % *
V = 50 MPH
FUNC. CLASS = RURAL
LOCAL
* TTST 1%
DUAL 2%

PROJECT LENGTH

LENGTH OF ROADWAY TIP PROJECT B-4543 = 0.069 MILES
LENGTH OF STRUCTURE TIP PROJECT B-4543 = 0.020 MILES
TOTAL LENGTH OF TIP PROJECT B-4543 = 0.089 MILES

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

2006 STANDARD SPECIFICATIONS

RIGHT OF WAY DATE:
JANUARY 8, 2010

LETTING DATE:
NOVEMBER 20, 2012

HYDRAULICS ENGINEER

SIGNATURE: P.E.

ROADWAY DESIGN
ENGINEER

SIGNATURE: P.E.

DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA



STATE HIGHWAY DESIGN ENGINEER

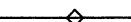
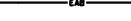
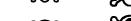
PROJECT REFERENCE NO.	SHEET NO.
	/-A
ROADWAY DESIGN ENGINEER	

INDEX OF SHEETS

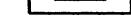
SHEET NUMBER	SHEET
1	TITLE SHEET
1-A	INDEX OF SHEETS, GENERAL NOTES, AND LIST OF STANDARD DRAWINGS
1-B	CONVENTIONAL SYMBOLS
2	PAVEMENT SCHEDULE, TYPICAL SECTIONS, AND WEDGING DETAILS
3	SUMMARY OF QUANTITIES
3A	SUMMARY OF DRAINAGE QUANTITIES SUMMARY OF GUARDRAIL, EARTHWORK SUMMARY, AND ASPHALT PAVEMENT REMOVAL SUMMARY
4 THRU	PLAN SHEET PROFILE SHEET
TCP-1 THRU TCP-	TRAFFIC CONTROL PLANS
PM-1 THRU PM-	PAVEMENT MARKING PLANS
L-1 THRU L-	LANDSCAPE PLANS
RF-1 THRU RF-	REFORESTATION PLANS
EC-1 THRU EC-	EROSION CONTROL PLANS
SIGN-1 THRU SIGN-	SIGNING PLANS
U-1 THRU U-	UTILITIES PLANS
X-1 THRU X-	CROSS-SECTIONS
S-1 THRU S-	STRUCTURE PLANS

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 
 Existing Fence Line 
 Proposed Woven Wire Fence 
 Proposed Chain Link Fence 
 Proposed Barbed Wire Fence 
 Existing Wetland Boundary 
 Proposed Wetland Boundary 
 Existing Endangered Animal Boundary 
 Existing Endangered Plant Boundary 
 Known Soil Contamination: Area or Site 
 Potential Soil Contamination: Area or Site 

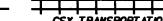
BUILDINGS AND OTHER CULTURE:

Gas Pump Vent or UG 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 
 Buffer Zone 1 
 Buffer Zone 2 
 Flow Arrow 
 Disappearing Stream 
 Spring 
 Wetland 
 Proposed Lateral, Tail, Head Ditch 
 False Sump 

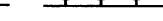
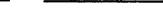
RAILROADS:

Standard Gauge 
 RR Signal Milepost 
 Switch 
 RR Abandoned 
 RR Dismantled 

RIGHT OF WAY:

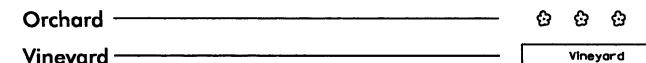
Baseline Control Point 
 Existing Right of Way Marker 
 Existing Right of Way Line _____
 Proposed Right of Way Line 
 Proposed Right of Way Line with Iron Pin and Cap Marker 
 Proposed Right of Way Line with Concrete or Granite Marker 
 Existing Control of Access 
 Proposed Control of Access 
 Existing Easement Line 
 Proposed Temporary Construction Easement 
 Proposed Temporary Drainage Easement 
 Proposed Permanent Drainage Easement 
 Proposed Permanent Drainage / Utility Easement 
 Proposed Permanent Utility Easement 
 Proposed Temporary Utility Easement 
 Proposed Aerial Utility Easement 
 Proposed Permanent Easement with Iron Pin and Cap Marker 

ROADS AND RELATED FEATURES:

Existing Edge of Pavement _____
 Existing Curb _____
 Proposed Slope Stakes Cut 
 Proposed Slope Stakes Fill 
 Proposed Curb Ramp 
 Existing Metal Guardrail 
 Proposed Guardrail 
 Existing Cable Guiderail 
 Proposed Cable Guiderail 
 Equality Symbol 
 Pavement Removal 

VEGETATION:

Single Tree 
 Single Shrub 
 Hedge 
 Woods Line 



EXISTING STRUCTURES:

MAJOR:

Bridge, Tunnel or Box Culvert 
 Bridge Wing Wall, Head Wall and End Wall 
 MINOR:
 Head and End Wall 
 Pipe Culvert _____
 Footbridge 
 Drainage Box: Catch Basin, DI or JB 
 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 

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 

SANITARY SEWER:

Sanitary Sewer Manhole 
 Sanitary Sewer Cleanout 
 U/G Sanitary Sewer Line 
 Above Ground 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 
 End of Information 

SURVEY CONTROL SHEET B-4543

PROJECT REFERENCE NO.	Sheet No.
B-4543	I-C
Location and Surveys	

NC GRID
NAD 83/95

BL	POINT	DESC.	NORTH	EAST	ELEVATION	L STATION	OFFSET
1	B-4543	BL-1	609863.2215	2105959.4097	203.23'	OUTSIDE PROJECT LIMITS	
2	B-4543	BL-2	609778.9451	2106264.7530	203.88'	10+78.32	17.84 LT
3	B-4543	BL-3	609578.4073	2106651.1923	205.51'	15+12.52	14.00 RT
4	B-4543	BL-4	609489.6001	2107014.3557	207.99'	18+83.91	15.86 RT
5	B-4543	BL-5	609623.2531	2107335.1036	211.54'	22+27.84	15.50 RT

BEGIN STATE PROJECT B-4543
-L- POT 10+00.00

.....
BM1 ELEVATION - 200.20
N 609813 E 2105998
L STATION 10+00
N 84° 05' 10.6" W DIST 188.31
RR SPIKE IN BASE OF 8 INCH GUM
.....

.....
BM2 ELEVATION - 210.35
N 609386 E 2107117
L STATION 19+60 134 RIGHT
RR SPIKE IN BASE OF 36 INCH GUM
.....

NCDOT BASELINE STATION (B4543) BL-1
LOCALIZED PROJECT COORDINATES
N=609863.2215
E=2105959.4097
ELEV=203.23'



NCDOT BASELINE STATION (B4543) BL-2
LOCALIZED PROJECT COORDINATES
N=609778.9451
E=2106264.7530
ELEV=203.88'

EBENEZER CH RD, SR 1558

NCDOT BASELINE STATION (B4543) BL-3
LOCALIZED PROJECT COORDINATES
N=609578.4073
E=2106651.1923
ELEV=205.51'

NCDOT BASELINE STATION (B4543) BL-4
LOCALIZED PROJECT COORDINATES
N=609489.6001
E=2107014.3557
ELEV=207.99'

END STATE PROJECT B-4543
-L- POT 22+71.75

NCDOT BASELINE STATION (B4543) BL-5
LOCALIZED PROJECT COORDINATES
N=609623.2531
E=2107335.1036
ELEV=211.54'



BM#2

DATUM DESCRIPTION

THE LOCALIZED COORDINATE SYSTEM DEVELOPED FOR THIS PROJECT IS BASED ON THE STATE PLANE COORDINATES ESTABLISHED BY NCGS FOR MONUMENT "BUNNLEVEL" WITH NAD 83/95 STATE PLANE GRID COORDINATES OF NORTHING: 567444.9543(ft) EASTING: 2065238.6484(ft) THE AVERAGE COMBINED GRID FACTOR USED ON THIS PROJECT (GROUND TO GRID) IS: .99987203 THE N.C. LAMBERT GRID BEARING AND LOCALIZED HORIZONTAL GROUND DISTANCE FROM "BUNNLEVEL" TO -L- STATION 10+00.00 IS N 44°02'10.1" E 58907.2111' ALL LINEAR DIMENSIONS ARE LOCALIZED HORIZONTAL DISTANCES VERTICAL DATUM USED IS NAVD 88

NOTES:

1. THE CONTROL DATA FOR THIS PROJECT CAN BE FOUND ELECTRONICALLY BY SELECTING PROJECT CONTROL DATA AT: [HTTP://WWW.NCDOT.ORG/DOH/PRECONSTRUCT/HIGHWAYLOCATION/PROJECT](http://www.ncdot.org/doh/preconstruct/highwaylocation/project)

THE FILES TO BE FOUND ARE AS FOLLOWS:
B4543_LS_CONTROL_080414.TXT

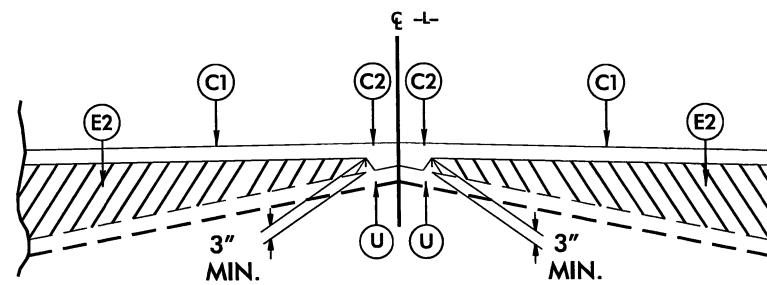
SITE CALIBRATION INFORMATION HAS NOT BEEN PROVIDED FOR THIS PROJECT. IF FURTHER INFORMATION IS NEEDED, PLEASE CONTACT THE LOCATION AND SURVEYS UNIT.

• INDICATES GEODETIC CONTROL MONUMENTS USED OR SET FOR HORIZONTAL PROJECT CONTROL BY THE NCDOT LOCATION AND SURVEYS UNIT.
PROJECT CONTROL ESTABLISHED USING GLOBAL POSITIONING SYSTEM.
NETWORK ESTABLISHED FROM EXISTING HARN MONUMENTATION
SEE GPS CALIBRATION SHEET FOR HORIZONTAL AND VERTICAL COORDINATE VALUES.

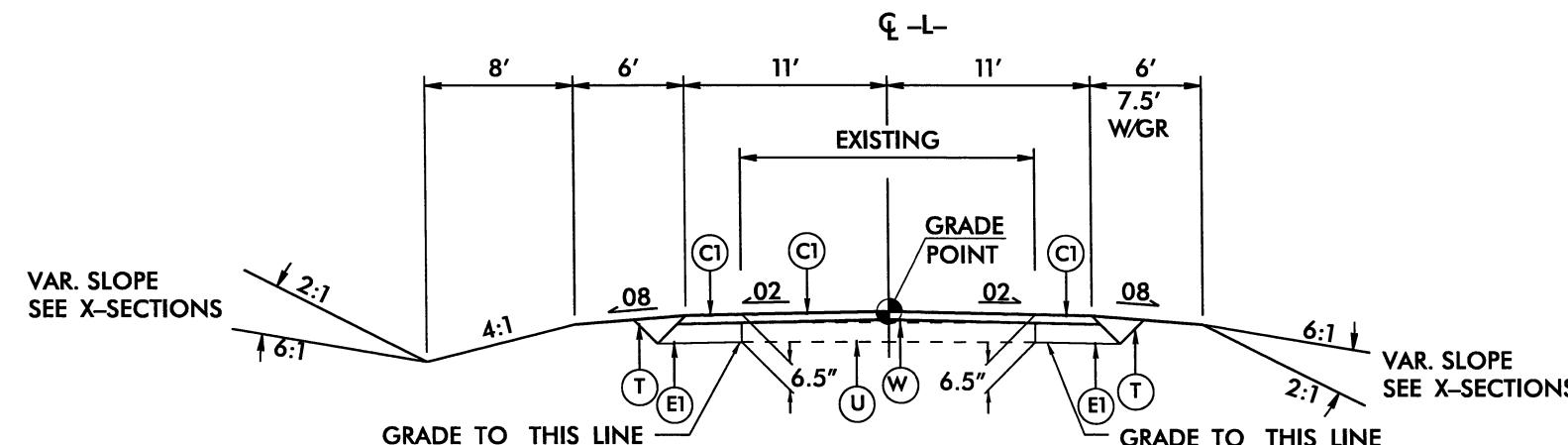
NOTE: DRAWING NOT TO SCALE

PAVEMENT SCHEDULE FINAL PAVEMENT DESIGN	
C1	PROP. APPROX. 2½" ASPHALT CONCRETE SURFACE COURSE, TYPE SF9.5A, AT AN AVERAGE RATE OF 137.5 LBS. PER SQ. YD. IN EACH OF TWO LAYERS.
C2	PROP. VAR. DEPTH ASPHALT CONCRETE SURFACE COURSE, TYPE SF9.5A, AT AN AVERAGE RATE OF 110 LBS. PER SQ. YD. PER 1" DEPTH. TO BE PLACED IN LAYERS NOT TO EXCEED 1½" IN DEPTH.
E1	PROP. APPROX. 4" ASPHALT CONCRETE BASE COURSE, TYPE B25.0B, AT AN AVERAGE RATE OF 456 LBS. PER SQ. YD.
E2	PROP. VAR. DEPTH ASPHALT CONCRETE BASE COURSE, TYPE B25.0B, AT AN AVERAGE RATE OF 114 LBS. PER SQ. YD. PER 1" DEPTH. TO BE PLACED IN LAYERS NOT LESS THAN 3" IN DEPTH OR GREATER THAN 5½" IN DEPTH.
T	EARTH MATERIAL.
U	EXISTING PAVEMENT.
W	VARIABLE DEPTH ASPHALT PAVEMENT (SEE STANDARD WEDGING DETAIL).

NOTE: PAVEMENT EDGE SLOPES ARE 1:1 UNLESS SHOWN OTHERWISE.



Standard Wedging Detail



TYPICAL SECTION NO. 1

USE TYPICAL SECTION NO. 1

-L- STA. 12 + 35.00 TO -L- STA. 13 + 91.81
 -L- STA. 15 + 49.19 TO -L- STA. 17 + 05.00

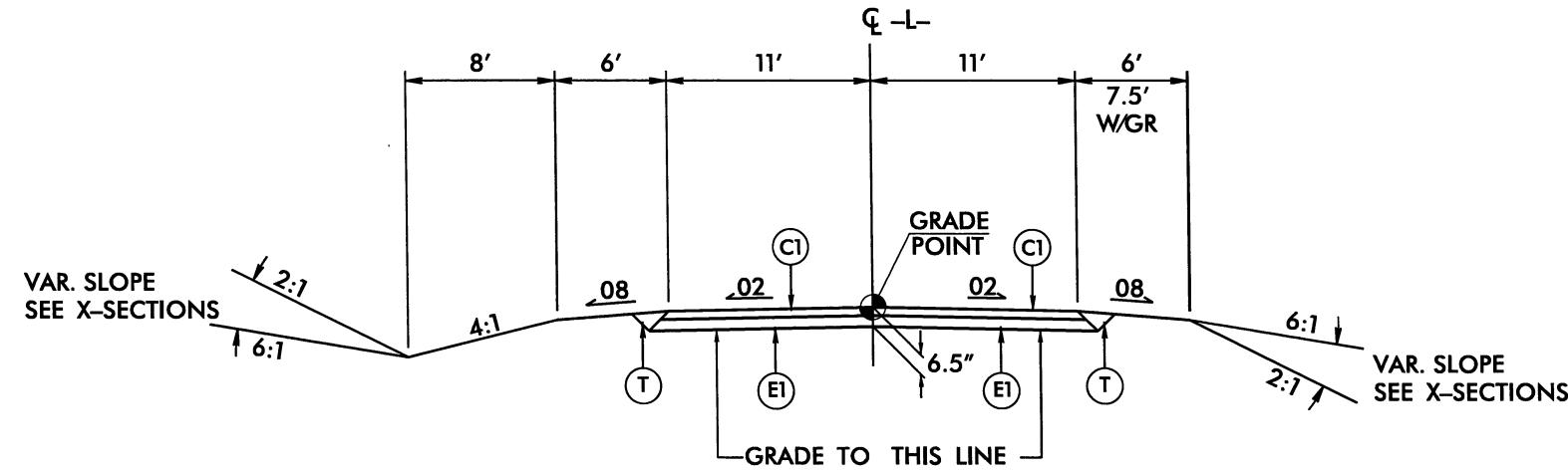
PROJECT REFERENCE NO.	SHEET NO.
B-4543	2
ROADWAY DESIGN ENGINEER	PAVEMENT DESIGN ENGINEER
PRELIMINARY PLANS DO NOT USE FOR CONSTRUCTION	

6/2/99

PAVEMENT SCHEDULE	
FINAL PAVEMENT DESIGN	
C1	2 1/2" SF9.5A
C2	VAR. SF9.5A
E1	4" B25.0B
E2	VAR. B25.0B
T	EARTH MATERIAL
U	EXIST. PAVEMENT
W	WEDGING

PROJECT REFERENCE NO. **B-4543** SHEET NO. **2-A**

ROADWAY DESIGN ENGINEER	PAVEMENT DESIGN ENGINEER
PRELIMINARY PLANS DO NOT USE FOR CONSTRUCTION	

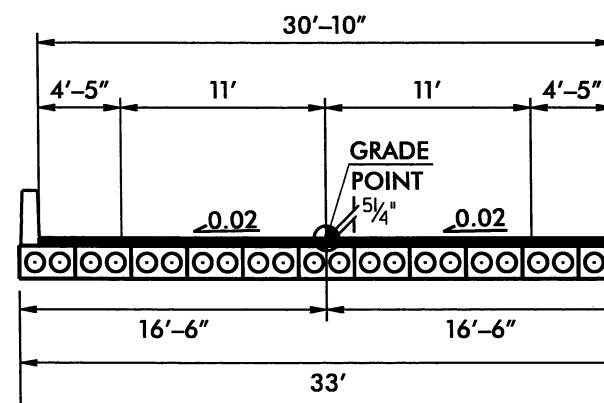


TYPICAL SECTION NO. 2

USE TYPICAL SECTION NO. 2

-L- STA. 13 + 91.81 TO -L- STA. 14 + 16.81 (BEGIN BRIDGE)

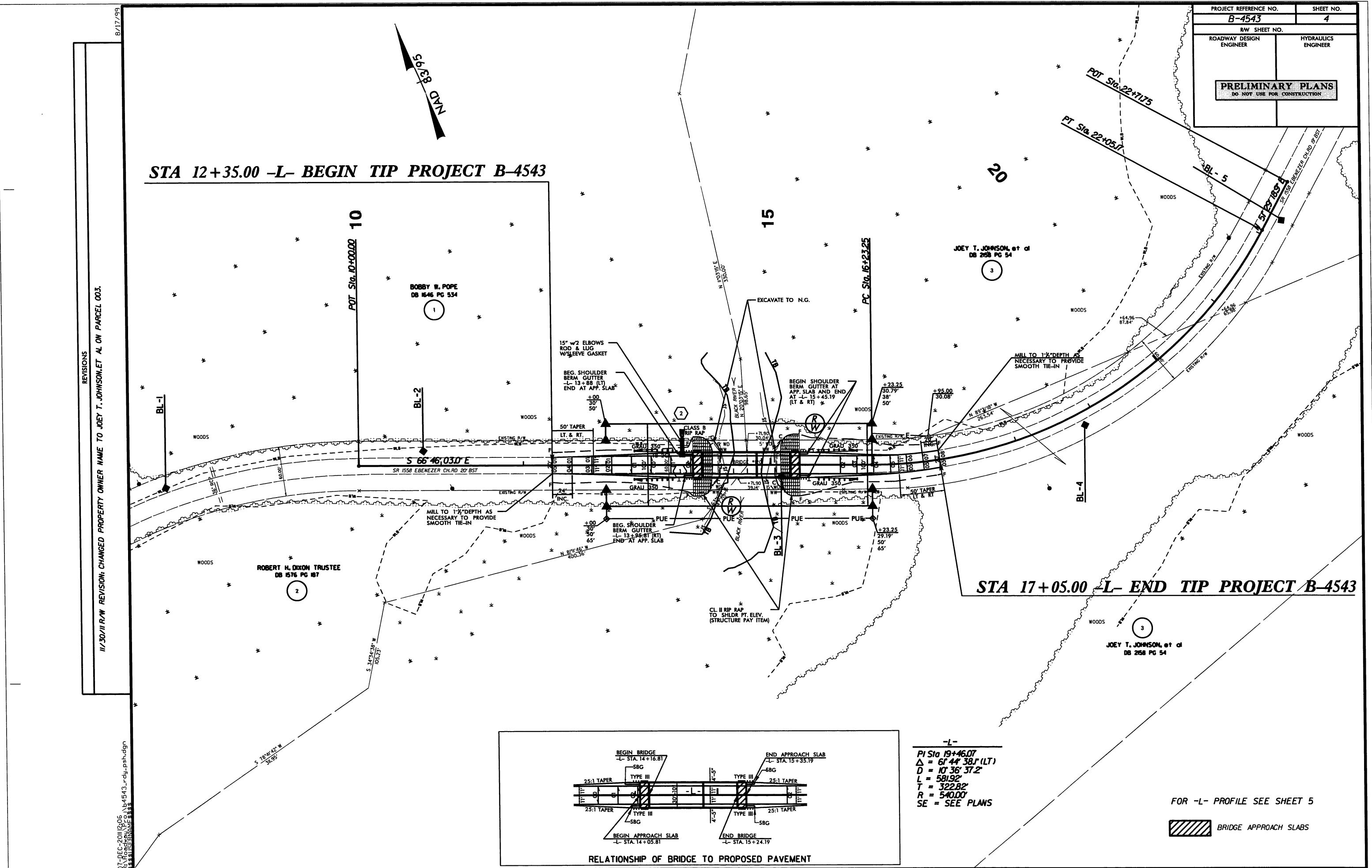
-L- STA. 15 + 24.19 (END BRIDGE) TO -L- STA. 15 + 49.19

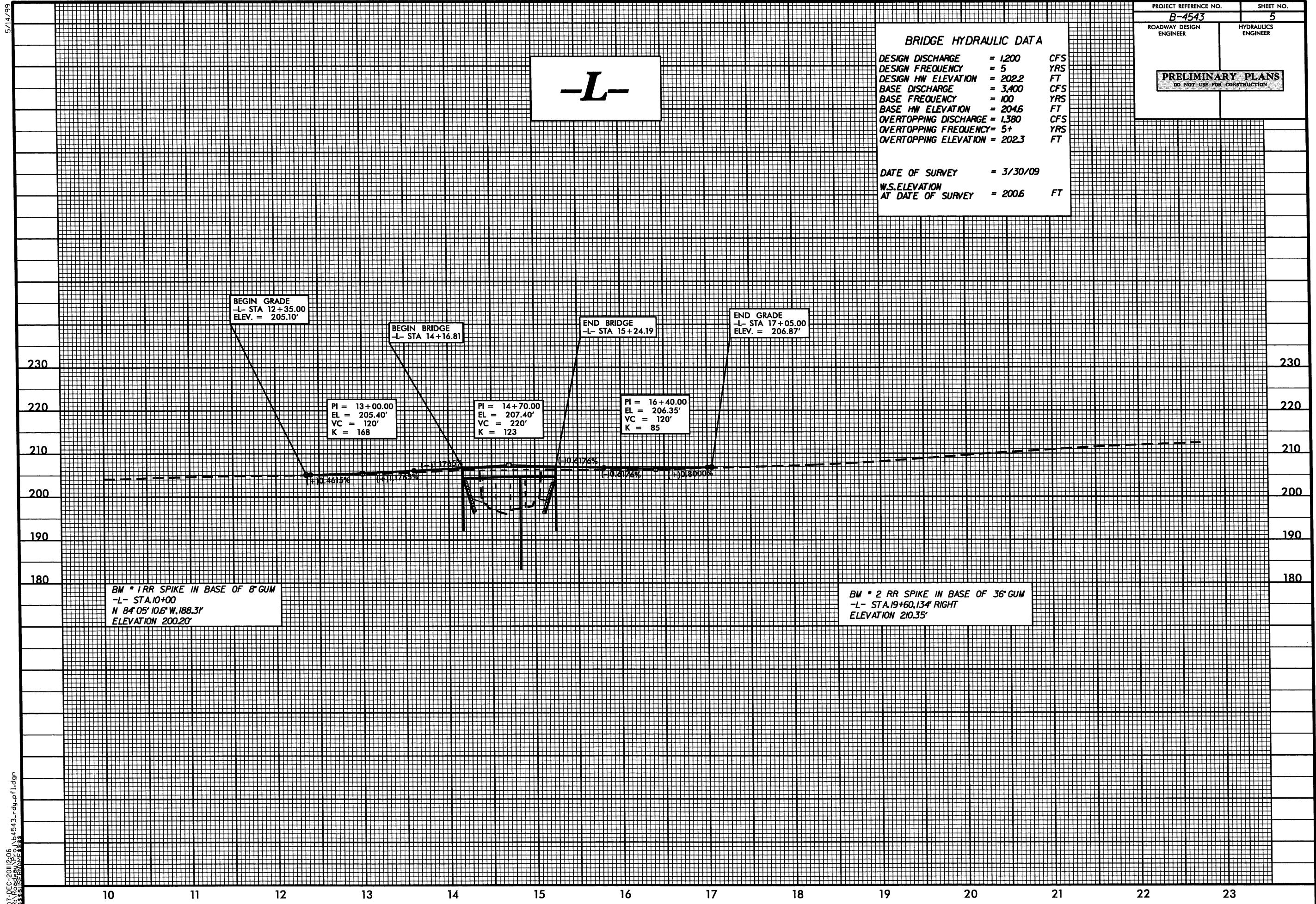


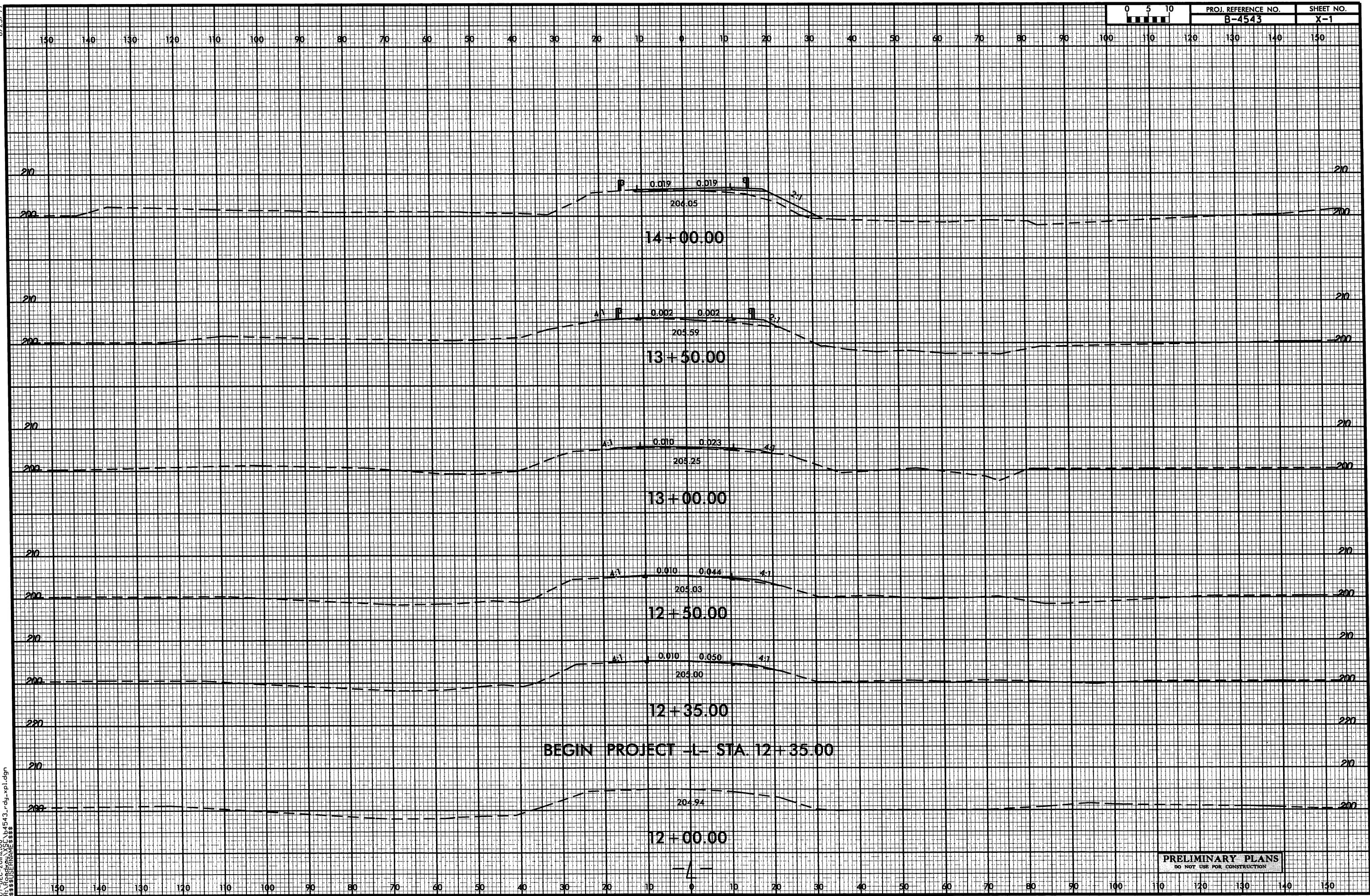
USE TYPICAL SECTION ON STRUCTURE

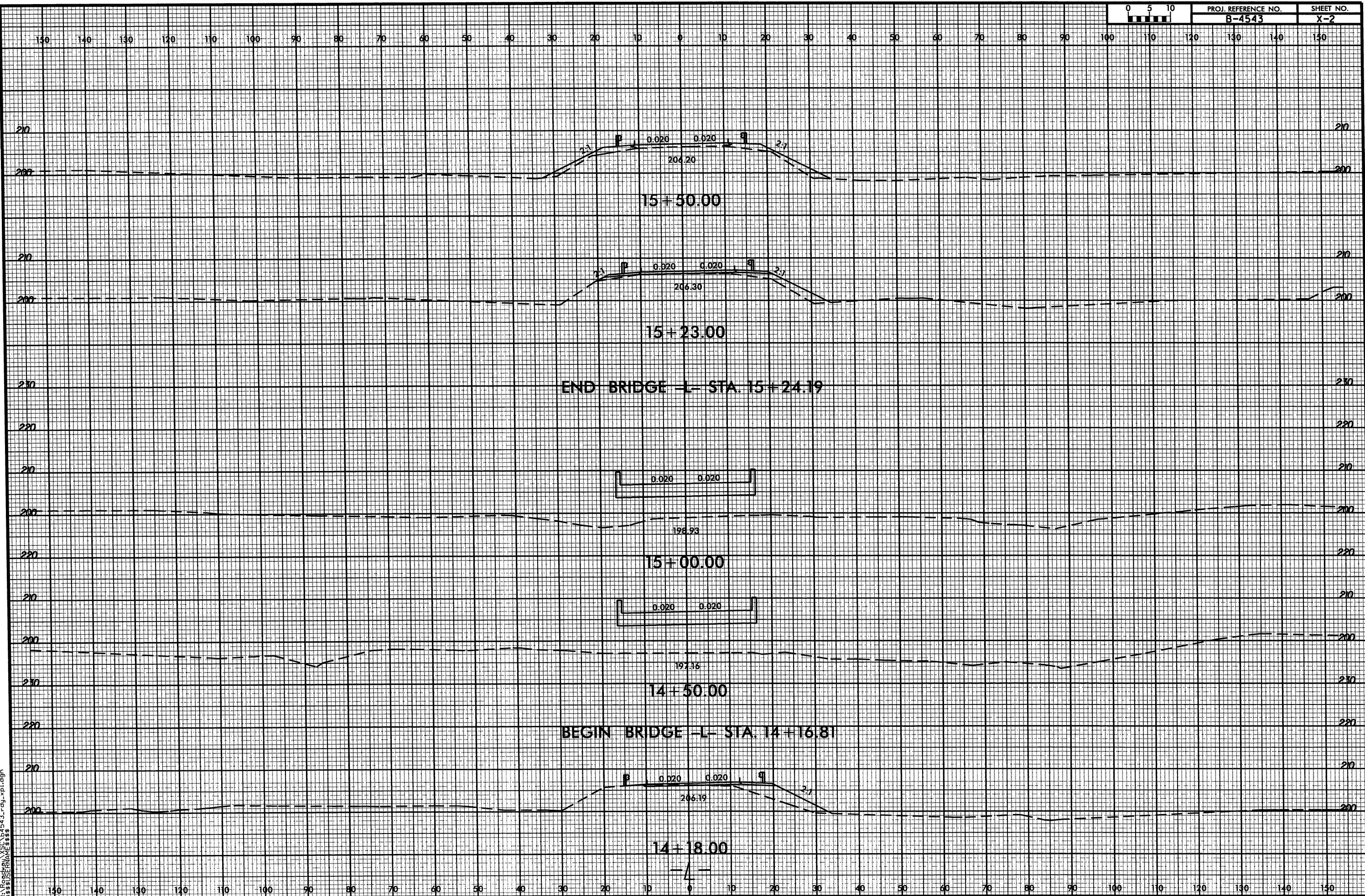
-L- STA. 14 + 16.81 (BEGIN BRIDGE) TO -L- STA. 15 + 24.19 (END BRIDGE)

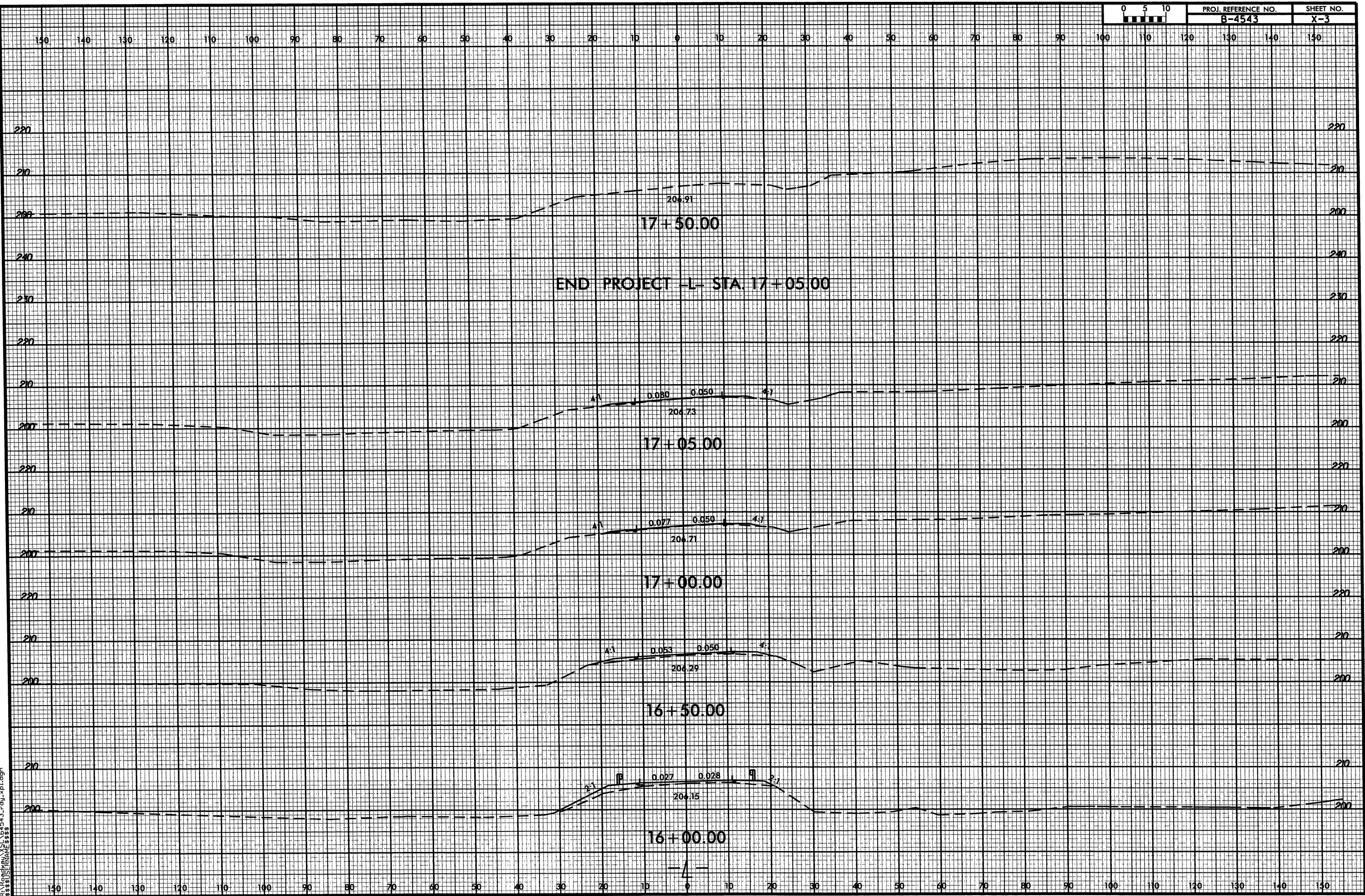
TYPICAL SECTION ON STRUCTURE











PRELIMINARY JURISDICTIONAL DETERMINATION FORM

BACKGROUND INFORMATION

A. REPORT COMPLETION DATE FOR PRELIMINARY JURISDICTIONAL DETERMINATION (JD):

B. NAME AND ADDRESS OF PERSON REQUESTING PRELIMINARY JD:
Gordon Cashin, NCDOT, 1598 Mail Service Center, Raleigh, NC 27699-1598

C. DISTRICT OFFICE, FILE NAME, AND NUMBER: CESAW-RG-L

D. PROJECT LOCATION(S) AND BACKGROUND INFORMATION:
TIP: B-4543 Description: Replace Bridge No. 120 on SR 1558 over Black River

(USE THE ATTACHED TABLE TO DOCUMENT MULTIPLE WATERBODIES AT DIFFERENT SITES)

State: NC County/parish/borough: Harnett City: Coats
Center coordinates of site (lat/long in degree decimal format):
Lat. 35.425012 °N, Long. -78.646896 °W
Universal Transverse Mercator: NA
Name of nearest waterbody: Black River

Identify (estimate) amount of waters in the review area:

Non-wetland waters: See table, linear feet: 886
Cowardin Class: Riverine
Stream Flow: Perennial
Wetlands: 20.8 acres.
Cowardin Class: Forested

Name of any water bodies on the site that have been identified as Section 10 waters:

Tidal: N/A
Non-Tidal: N/A

E. REVIEW PERFORMED FOR SITE EVALUATION (CHECK ALL THAT APPLY):

Office (Desk) Determination Date:
 Field Determination Date(s):

1. The Corps of Engineers believes that there may be jurisdictional waters of the United States on the subject site, and the permit applicant or other affected party who requested this preliminary JD is hereby advised of his or her option to request and obtain an approved jurisdictional determination (JD) for that site. Nevertheless, the permit applicant or other person who requested this preliminary JD has declined to exercise the option to obtain an approved JD in this instance and at this time.

2. In any circumstance where a permit applicant obtains an individual permit, or a Nationwide General Permit (NWP) or other general permit verification requiring “pre-construction notification” (PCN), or requests verification for a non-reporting NWP or other general permit, and the permit applicant has not requested an approved JD for the activity, the permit applicant is hereby made aware of the following: (1) the permit applicant has elected to seek a permit authorization based on a preliminary JD, which does not make an official determination of jurisdictional waters; (2) that the applicant has the option to request an approved JD before accepting the terms and conditions of the permit authorization, and that basing a permit authorization on an approved JD could possibly result in less compensatory mitigation being required or different special conditions; (3) that the applicant has the right to request an individual permit rather than accepting the terms and conditions of the NWP or other general permit authorization; (4) that the applicant can accept a permit authorization and thereby agree to comply with all the terms and conditions of that permit, including whatever mitigation requirements the Corps has determined to be necessary; (5) that undertaking any activity in reliance upon the subject permit authorization without requesting an approved JD constitutes the applicant’s acceptance of the use of the preliminary JD, but that either form of JD will be processed as soon as is practicable; (6) accepting a permit authorization (e.g., signing a proffered individual permit) or undertaking any activity in reliance on any form of Corps permit authorization based on a preliminary JD constitutes agreement that all wetlands and other water bodies on the site affected in any way by that activity are jurisdictional waters of the United States, and precludes any challenge to such jurisdiction in any administrative or judicial compliance or enforcement action, or in any administrative appeal or in any Federal court; and (7) whether the applicant elects to use either an approved JD or a preliminary JD, that JD will be processed as soon as is practicable. Further, an approved JD, a proffered individual permit (and all terms and conditions contained therein), or individual permit denial can be administratively appealed pursuant to 33 C.F.R. Part 331, and that in any administrative appeal, jurisdictional issues can be raised (see 33 C.F.R. 331.5(a)(2)). If, during that administrative appeal, it becomes necessary to make an official determination whether CWA jurisdiction exists over a site, or to provide an official delineation of jurisdictional waters on the site, the Corps will provide an approved JD to accomplish that result, as soon as is practicable. This preliminary JD finds that there “*may be*” waters of the United States on the subject project site, and identifies all aquatic features on the site that could be affected by the proposed activity, based on the following information:

SUPPORTING DATA: Data reviewed for preliminary JD (check all that apply)

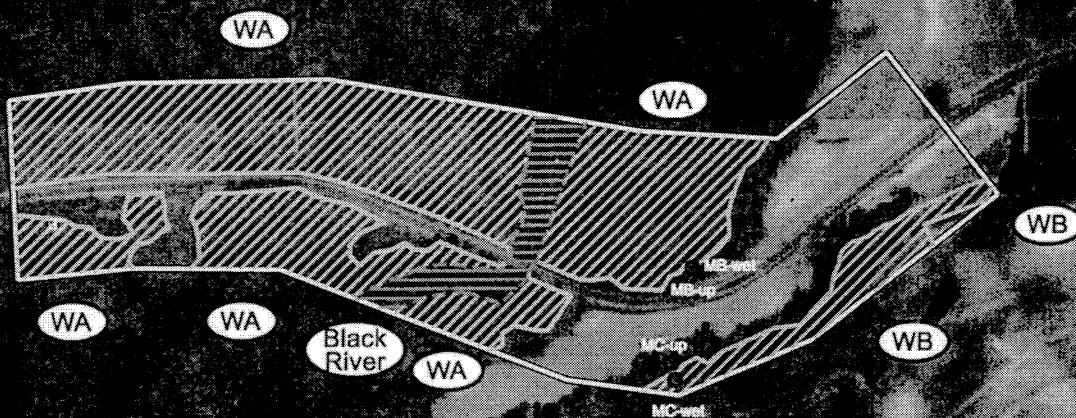
- checked items should be included in case file and, where checked and requested, appropriately reference sources below:

- Maps, plans, plots or plat submitted by or on behalf of the applicant/consultant
- Data sheets prepared/submitted by or on behalf of the applicant/consultant
 - Office concurs with data sheets/delineation report.
 - Office does not concur with data sheets/delineation report.
- Data sheets prepared by the Corps:
- Corps navigable waters' study:
- U.S. Geological Survey Hydrologic Atlas:
 - USGS NHD data.
 - USGS 8 and 12 digit HUC maps
- U.S. Geological Survey map(s). Cite scale & quad name: 1:24000;
- USDA Natural Resources Conservation Service Soil Survey Citation:
 - National wetlands inventory map(s). Cite name:
 - State/Local wetland inventory map(s):
 - FEMA/FIRM maps:
 - 100-year Floodplain Elevation is: (National Geodetic Vertical Datum of 1929)
 - Photographs: Aerial (Name & Date): or Other (Name & Date):
 - Previous determination(s). File no. and date of response letter:
 - Other information (please specify): Figure 3 and Tables 5 & 6 from the Natural Resources Technical Report showing jurisdictional areas.

IMPORTANT NOTE: The information recorded on this form has not necessarily been verified by the Corps and should not be relied upon for later jurisdictional determinations.

Signature and date of
Regulatory Project Manager
(REQUIRED)

Signature and date of
person requesting preliminary JD
(REQUIRED, unless obtaining
the signature is impracticable)



- Project Boundary*
- Jurisdictional Wetland*
- Jurisdictional Stream**
- Data Form Location*

*Location and extent is approximate.
**On-screen digitized, no GPS points.

0 250 500
Feet

Sources: USDA-FSA-APFO NAIP MrSID Mosaic, 2002; Coats NC Quadrangle, 1998; Project boundary approximated by ESL.

Disclaimer: The information depicted on this figure is for informational purposes only and was not prepared for, and is not suitable for legal or engineering purposes. This information presented is not for regulatory review and is intended for use only by a Professional Land Surveyor prior to regulatory review.



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Jurisdictional Features Map
Bridge No. 120 on SR 1558
Over Black River
Harnett County, North Carolina
T.I.P. No. B-4543

Project:	WIL06047.00
Date:	Nov 2008
Drwn/Chkd:	EJW/MKS
Figure:	3

4.4 Invasive Species

Two species from the NCDOT Invasive Exotic Plant List for North Carolina were found to occur in the study area. The species identified were Chinese privet (Threat level 1) and Japanese honeysuckle (Threat level 2). NCDOT will follow the Department's BMPs for the management of invasive plant species.

5.0 JURISDICTIONAL ISSUES

5.1 Clean Water Act Waters of the U.S.

One jurisdictional stream was identified in the study area (Table 5). The location of the stream is depicted on Figure 3. USACE and NCDWQ stream delineation forms are included in Appendix C. The physical characteristics and water quality designations of the jurisdictional stream are detailed in Section 3.2. All jurisdictional streams have been designated as Warm water streams for the purposes of stream mitigation.

Table 5. Jurisdictional characteristics of water resources in the study area.

Map ID	Length (ft)	Classification	Compensatory Mitigation Required	River Basin Buffer
Black River	886	Perennial	Yes	NA

Two jurisdictional wetlands were identified within the study area (Figure 3). Wetland classification and quality rating data are presented in Table 6. All wetlands in the study area are within the Cape Fear River Basin (USGS Hydrologic Unit 03030006). USACE wetland delineation forms and NCDWQ wetland rating forms for each site are included in Appendix C. Descriptions of the natural communities at each wetland site are presented in Section 4.1. Wetland site WA comprises the cypress-gum swamp community and lower slope of the adjacent mixed pine/hardwood forest. Wetland site WB is located in portions of the mixed pine/hardwood forest and maintained/disturbed communities.

Table 6. Jurisdictional characteristics of wetlands in the study area.

Map ID	Cowardin Classification	Hydrologic Classification	DWQ Wetland Rating	Area (ac.)
WA	PFO6F/C	Riverine	74	18.8
WB	PFO1/2C	Non-riverine	42	2.0

5.2 Clean Water Act Permits

The proposed project has been designated as a Categorical Exclusion (CE) for the purposes of NEPA documentation. As a result, a USACE Section 404 Nationwide Permit (NWP) 23 will likely be applicable. Other permits that may apply include a NWP No. 33 for temporary construction activities such as dewatering, work bridges, or temporary causeways that are often used during