



STATE OF NORTH CAROLINA  
DEPARTMENT OF TRANSPORTATION

BEVERLY EAVES PERDUE  
GOVERNOR

EUGENE A. CONTI, JR.  
SECRETARY

June 1, 2009

U. S. Army Corps of Engineers  
Regulatory Field Office  
151 Patton Avenue, Room 208  
Asheville, NC 28801-5006

ATTN: Mr. Steve Lund  
NCDOT Coordinator

Subject: **Application for Section 404 Nationwide Permit 23, Section 401 Water Quality Certification and Revised Application for Section 404 Nationwide Permit 33** for the proposed replacement of Bridge No. 99 over Long Creek on SR 1968 in Stanly County, Federal Aid Project No. BRZ-1968(1); State Project No. 8.2681701; Division 10; TIP No. B-3909, \$240.00 Debit Work Order 8.2861701, WBS Element 33344.1.1.

Reference: February 4, 2009 Application for Section 404 Nationwide Permit 33

Dear Sir:

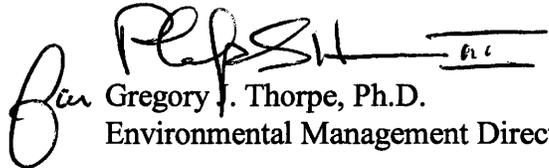
The North Carolina Department of Transportation (NCDOT) proposes to replace Bridge No. 99 over Long Creek on SR 1968. In addition to the 0.05 acre (49 linear feet) of temporary stream impacts requested in the original permit application dated February 4, 2009, there will be 90 linear feet of permanent stream impacts and <0.01 acre (45 linear feet) of temporary stream impacts to a previously undocumented intermittent unnamed tributary to Long Creek. Therefore, final impacts total 0.05 acre (94 linear feet) of temporary stream impacts and 90 linear feet of permanent stream impacts on this project.

Please see enclosed copies of the Revised Pre-Construction Notification (PCN), revised permit drawings and plan sheet 4 of the design plans for the above-referenced project. The Categorical Exclusion (CE) was completed in March 2003 and the CE Addendum was completed in July 2006. Documents were distributed shortly thereafter. Additional copies are available upon request.

This project calls for a letting date of August 17, 2010 and a review date of June 29, 2010.

A copy of this permit application will be posted on the NCDOT Website at: <http://www.ncdot.org/doh/preconstruct/pe/>. If you have any questions or need additional information, please e-mail Erin Cheely at [ekcheely@ncdot.gov](mailto:ekcheely@ncdot.gov).

Sincerely,

  
Gregory J. Thorpe, Ph.D.  
Environmental Management Director, PDEA

W/attachment:

Mr. Brian Wrenn, NCDWQ (5 Copies)  
Ms. Marella Buncick, USFWS  
Ms. Marla Chambers, NCWRC

W/o attachment (see website for attachments):

Dr. David Chang, P.E., Hydraulics  
Mr. Greg Perfetti, P.E., Structure Design  
Mr. Victor Barbour, P.E., Project Services Unit  
Mr. Mark Staley, Roadside Environmental  
Mr. Barry Moose, P.E., Division Engineer  
Mr. Larry Thompson, DEO  
Mr. Jay Bennett, P.E., Roadway Design  
Mr. Majed Alghandour, P. E., Programming and TIP  
Mr. Art McMillan, P.E., Highway Design  
Mr. Scott McLendon, USACE, Wilmington  
Mr. Ahmad Al-Sharawneh, PDEA Project Planning Engineer



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 33 or General Permit (GP) number:		
1c. Has the NWP or GP number been verified by the Corps?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
1d. Type(s) of approval sought from the DWQ (check all that apply):		
<input checked="" type="checkbox"/> 401 Water Quality Certification – Regular <span style="margin-left: 100px;"><input type="checkbox"/> Non-404 Jurisdictional General Permit</span> <input type="checkbox"/> 401 Water Quality Certification – Express <span style="margin-left: 100px;"><input type="checkbox"/> Riparian Buffer Authorization</span>		
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 No. 99 over Long Creek on SR 1986
2b. County:	Stanly
2c. Nearest municipality / town:	Albemarle
2d. Subdivision name:	<i>not applicable</i>
2e. NCDOT only, T.I.P. or state project no.:	B-3909

#### 3. Owner Information

3a. Name(s) on Recorded Deed:	North Carolina Department of Transportation
3b. Deed Book and Page No.	<i>not applicable</i>
3c. Responsible Party (for LLC if applicable):	<i>not applicable</i>
3d. Street address:	1598 Mail Service Center
3e. City, state, zip:	Raleigh, NC 27699-1598
3f. Telephone no.:	(919) 431-6697
3g. Fax no.:	(919) 431-2002
3h. Email address:	ekcheely@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: 35.266667 (DD.DDDDDD) Longitude: - 80.256944 (-DD.DDDDDD)
1c. Property size:	5.11 acres
<b>2. Surface Waters</b>	
2a. Name of nearest body of water (stream, river, etc.) to proposed project:	Long Creek flows into Rocky River approximately 4.6 stream miles from project area. The Hydrological Cataloguing Unit is 03040105.
2b. Water Quality Classification of nearest receiving water:	Class "C"
2c. River basin:	Yadkin-Pee Dee
<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: Land use is approximately 60% forest land (broadleaf deciduous forest) and 40% disturbed land (including pasture and residential)	
3b. List the total estimated acreage of all existing wetlands on the property: 0	
3c. List the total estimated linear feet of all existing streams (intermittent and perennial) on the property: 135	
3d. Explain the purpose of the proposed project: The purpose of this project is to replace a functionally obsolete and structurally deficient structure (sufficiency rating 48.5 out of 100). The replacement of this inadequate structure will result in safer and more efficient traffic operations.	
3e. Describe the overall project in detail, including the type of equipment to be used: The project involves replacing an 82.5-foot bridge with a 264-foot, 3-span bridge on close to the existing alignment with an off-site detour. Standard construction equipment will be used (backhoes, bulldozers, cranes and/or other heavy machinery).	
<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: Verified on 4/23/02, but has since expired	<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):	Agency/Consultant Company: Environmental Services, Inc Other:
4d. If yes, list the dates of the Corps jurisdictional determinations or State determinations and attach documentation. Verified on April 23, 2002, expired April 23, 2007	

<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 checked="" type="checkbox"/> Yes	<input type="checkbox"/> No <input type="checkbox"/> Unknown
5b. If yes, explain in detail according to "help file" instructions. A Section 404 Nationwide Permit 33 was applied for on February 4, 2009. At the time, the only impacts on this project were from the temporary causeways in Long Creek. Polly Lespinasse (NCDWQ) informed NCDOT in late February about the existence of a previously undocumented intermittent stream that would likely be impacted by the project. NCDOT went out to the site on 3/4/09 to fill out stream forms and GPS the stream. Updated drawings were prepared and this application is a revision to the previous NW 33 and a request for a NW 23 and written 401 certification to account for the impacts to this intermittent tributary to Long Creek.		
<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.		

### C. Proposed Impacts Inventory

#### 1. Impacts Summary

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

- Wetlands                       Streams - tributaries                       Buffers  
 Open Waters                       Pond Construction

#### 2. Wetland Impacts

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

2a. Wetland impact number – Permanent (P) or Temporary (T)	2b. Type of impact	2c. Type of wetland (if known)	2d. Forested	2e. Type of jurisdiction (Corps - 404, 10 DWQ – non-404, other)	2f. Area of impact (acres)
Site 1 <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 2 <input type="checkbox"/> P <input type="checkbox"/> T			<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Corps <input type="checkbox"/> DWQ	
Site 3 <input type="checkbox"/> P <input type="checkbox"/> T			<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Corps <input type="checkbox"/> DWQ	
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	
<b>2g. Total wetland impacts</b>					0 Permanent 0 Temporary

2h. Comments: No wetlands exist within the construction limits of this project.

#### 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 checked="" type="checkbox"/> T	causeways	Long Creek	<input checked="" type="checkbox"/> PER <input type="checkbox"/> INT	<input checked="" type="checkbox"/> Corps <input type="checkbox"/> DWQ	75	49
Site 2 <input checked="" type="checkbox"/> P <input type="checkbox"/> T	stream relocation	UT1 to Long Creek	<input type="checkbox"/> PER <input checked="" type="checkbox"/> INT	<input checked="" type="checkbox"/> Corps <input type="checkbox"/> DWQ	2	90
Site 3 <input type="checkbox"/> P <input checked="" type="checkbox"/> T	stream relocation	UT1 to Long Creek	<input type="checkbox"/> PER <input checked="" type="checkbox"/> INT	<input checked="" type="checkbox"/> Corps <input type="checkbox"/> DWQ	2	45
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>						90 Perm 94 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: There is no open water within the construction limits of this project.

**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 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				
<b>6h. Total buffer impacts</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. No deck drains will be used and NCDOT's Best Management Practices will be followed. The bridge will be replaced in-place with an off-site detour. In addition, the new bridge will be 264 feet long, which is significantly longer than the existing 82.5-foot bridge.		
1b. Specifically describe measures taken to avoid or minimize the proposed impacts through construction techniques. Temporary causeways will not be installed at the same time to maintain adequate flow in the creek. The temporary causeways will be removed after construction has been completed.		
<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 type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
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	
<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 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:		
<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.		

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

6a. Will the project result in an impact within a protected riparian buffer that requires buffer mitigation?  Yes  No

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

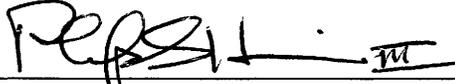
Zone	6c. Reason for impact	6d. Total impact (square feet)	Multiplier	6e. Required mitigation (square feet)
Zone 1			3 (2 for Catawba)	
Zone 2			1.5	
<b>6f. Total buffer mitigation required:</b>				

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 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
<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: Stormwater Management Plan is attached.	
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 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 checked="" type="checkbox"/> Yes <input type="checkbox"/> No
5b. Have all of the 401 Unit submittal requirements been met?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

<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.  The new bridge will be constructed in the same location as the old bridge.	
<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 checked="" type="checkbox"/> Yes	<input 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 type="checkbox"/> Raleigh <input checked="" type="checkbox"/> Asheville	
5d. What data sources did you use to determine whether your site would impact Endangered Species or Designated Critical Habitat? NCDOT field surveys, last conducted September 27, 2007		
<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 type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
8b. If yes, explain how project meets FEMA requirements: NCDOT Hydraulics 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	 Applicant/Agent's Signature <small>(Agent's signature is valid only if an authorization letter from the applicant is provided.)</small>	6/01/2009 Date

U.S. ARMY CORPS OF ENGINEERS  
Wilmington District

COPY *WS*

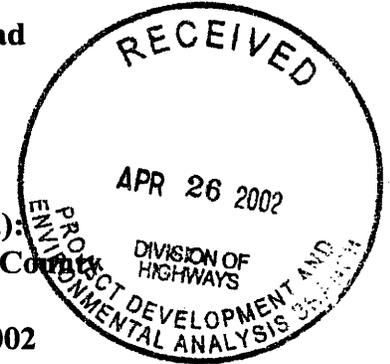
Action ID: 200230733

County: Stanly

Notification of Jurisdictional Determination

Property Owner: NCDOT  
Address: William D. Gilmore, Project  
Development and Environmental Analysis  
1548 Mail Service Center  
Raleigh, NC 27699-1548  
Telephone: 919-733-3141

Authorized Agent: Environmental Services, Inc.  
Attn. Matt K Smith  
Address: 524 New Hope Road  
Raleigh, NC 27610  
Telephone: 919-212-1760



Size and Location of Property (waterbody, Highway name/number, town, etc.):  
TIP No. B-3909, Bridge over Long Creek on SR 1968 near Albemarle, Stanly County

Basis for Determination: Delineation Map and Data Forms dated March 6, 2002

Indicate Which of the Following apply:

- ◇ There are wetlands on the above described property which we strongly suggest should be delineated and surveyed. The surveyed wetland lines must be verified by our staff before the Corps will make a final jurisdictional determination on your property.
- ◇ On \_\_\_\_\_ the undersigned inspected the Section 404 jurisdictional line as determined by the NCDOT and/or its representatives for the subject NCDOT project/corridor. A select number of sites were inspected and all were found to accurately reflect the limits of Corps jurisdiction. The Corps believes that this jurisdictional delineation can be relied on for planning purposes and impact assessment.
- \* The surface waters and wetlands on this project have been delineated and the limits of the Corps jurisdiction have been explained to you. 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 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 project is located in one of the 20 Coastal Counties. You should contact the nearest State Office of Coastal Management to determine their requirements.

Placement of dredged or fill material in wetlands on this property without a Department of the Army permit is in most cases a violation of Section 301 of the Clean Water Act (33 USC 1311). A permit is not required for work on the property restricted entirely to existing high ground. If you have any questions regarding the Corps of Engineers regulatory program, please contact Steven W. Lund at 828-271-7980 x 4.

Project Manager Signature

*Steven W. Lund*

Date: April 23, 2002

Expiration Date: April 23, 2007

**SURVEY PLAT OR FIELD SKETCH OF DESCRIBED PROPERTY AND THE WETLAND DELINEATION FORM MUST BE ATTACHED TO THIS FORM.**

# **STORMWATER MANAGEMENT PLAN**

Project: 33344.1.1

TIP No. B-3909

Stanly County

5/26/09

Hydraulics Project Manager: W. Henry Wells, Jr., P.E. (Sungate Design Group),  
Marshal Clawson, P.E. (NCDOT Hydraulics Unit)

## **ROADWAY DESCRIPTION**

The project B-3909 consists of constructing a new bridge 264 feet long to replace the existing bridge #99 in Stanly County on SR-1968 over Long Creek. The total project length is 0.26 miles. The project creates impacts to Long Creek, which is located in the Yadkin River Basin. The project drainage systems consist of grated inlets with associated pipe systems discharging into proposed rip rapped lateral ditches and rip rap energy dissipaters at the outlet of pipes.

Jurisdiction Stream: Long Creek

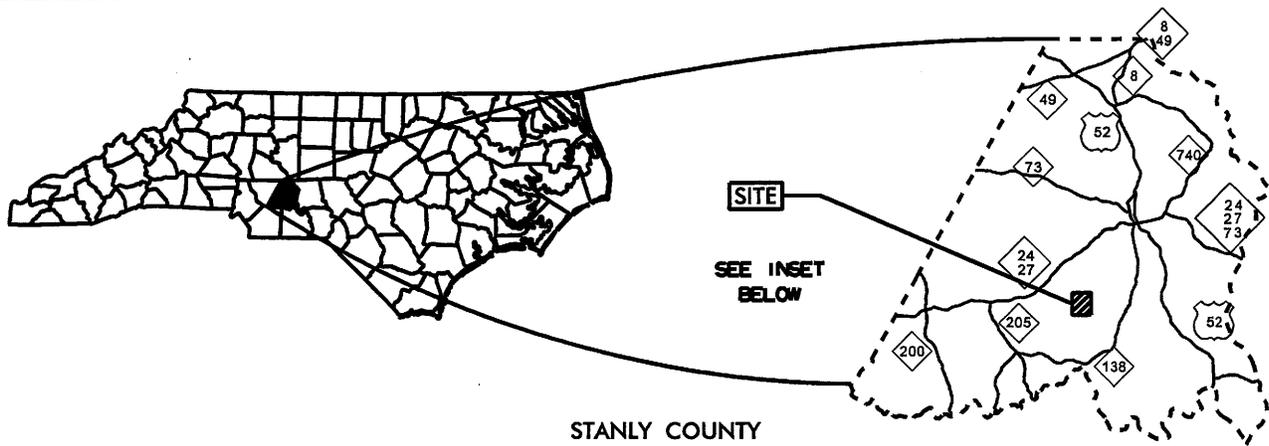
## **ENVIRONMENTAL DESCRIPTION**

The project is located within the Yadkin River Basin in Stanly County. There are isolated wetland sites within the project area but they are not being impacted by the improvements.

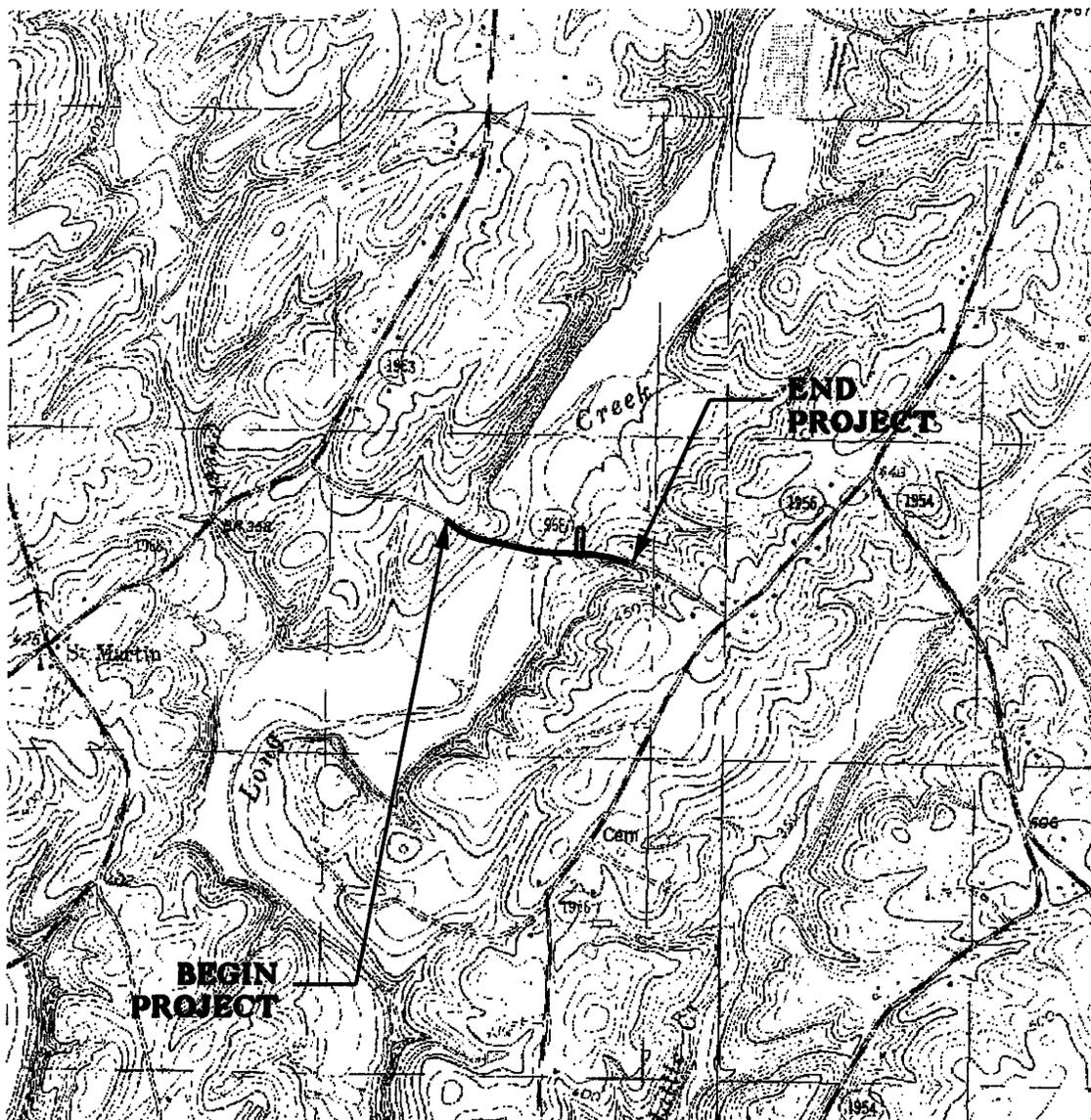
## **BEST MANAGEMENT PRACTICES AND MAJOR STRUCTURES**

The primary goal of Best Management Practices (BMPs) is to prevent degradation of the states surface waters by the location, construction and operation of the highway system. The BMPs are activities, practices and procedures taken to prevent or reduce stormwater pollution. The BMP measures used on this project to reduce stormwater impacts are:

- Rip rap energy dissipaters at pipe outlets.



STANLY COUNTY



**WETLAND/STREAM IMPACTS  
VICINITY MAP**

*Revised*  
Permit Drawing  
Sheet 1 of 10

**N.C. DEPT. OF TRANSPORTATION  
DIVISION OF HIGHWAYS**

STANLY COUNTY

PROJECT: 33344.1.1 (B-3909)  
BRIDGE NO. 99 OVER  
LONG CREEK ON SR 168  
(HARTSELL RD)

SHEET \_\_\_ OF \_\_\_

100208

# PROPERTY OWNERS

## NAMES AND ADDRESSES

PARCEL NO.	NAMES	ADDRESSES
1	JANET S. AND RICKY D. EUDY	245 JAMES RD OAKBORO, NC 28129
4	THOMAS D. AND CARISSA F. JORDAN	290443 HARTSELL RD ALBEMARLE, NC 28001

*Revised*  
Permit Drawing  
Sheet 2 of 10

### **NCDOT**

#### **DIVISION OF HIGHWAYS**

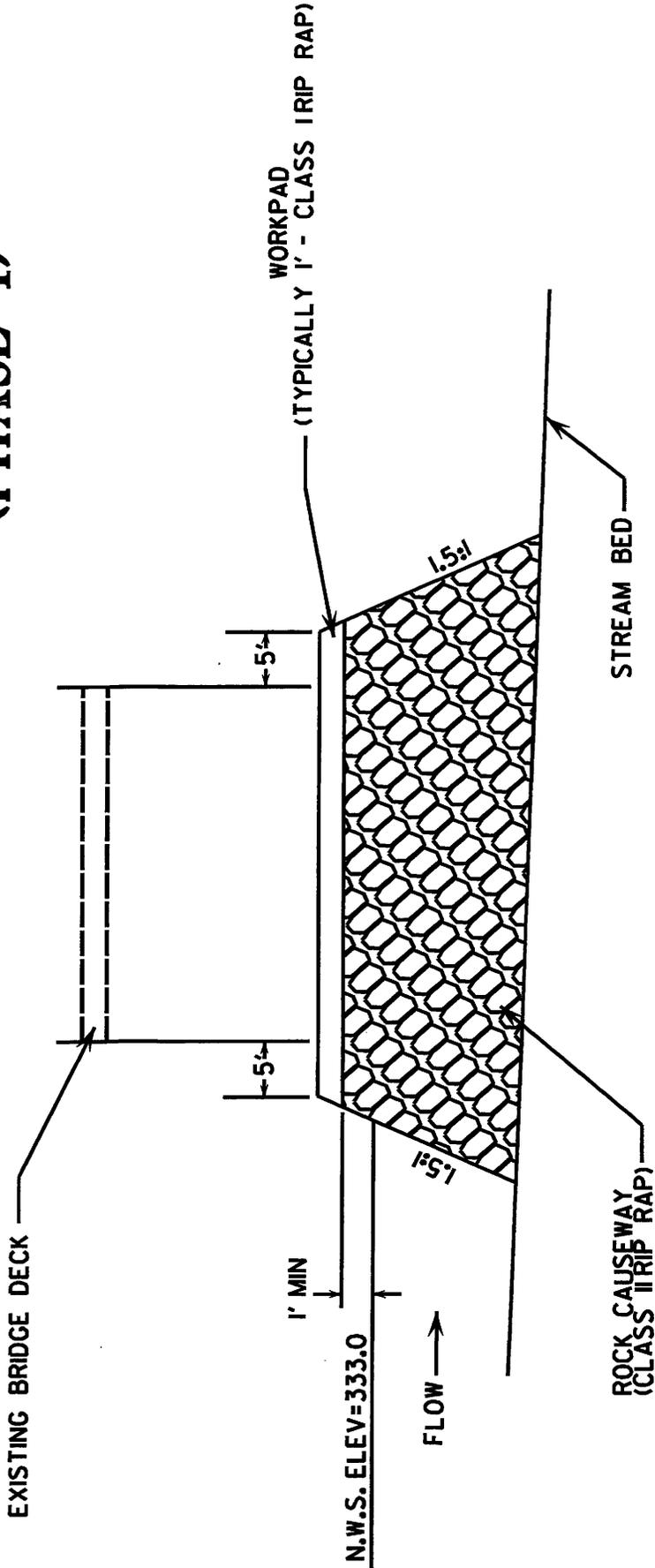
STANLY COUNTY

PROJECT: 33344.1.1 (B-3909)  
BRIDGE NO. 99 OVER  
LONG CREEK ON SR 1968  
(HARTSELL RD)

SHEET OF

10/04/08

# TEMP CAUSEWAY DETAIL (NOT TO SCALE) (PHASE 1)



N.C. DEPT. OF TRANSPORTATION  
DIVISION OF HIGHWAYS  
STANLY COUNTY

PROJECT: 33344.1.1 (B-3909)  
BRIDGE NO. 99 OVER  
LONG CREEK ON SR 1968  
(HARTSELL RD)

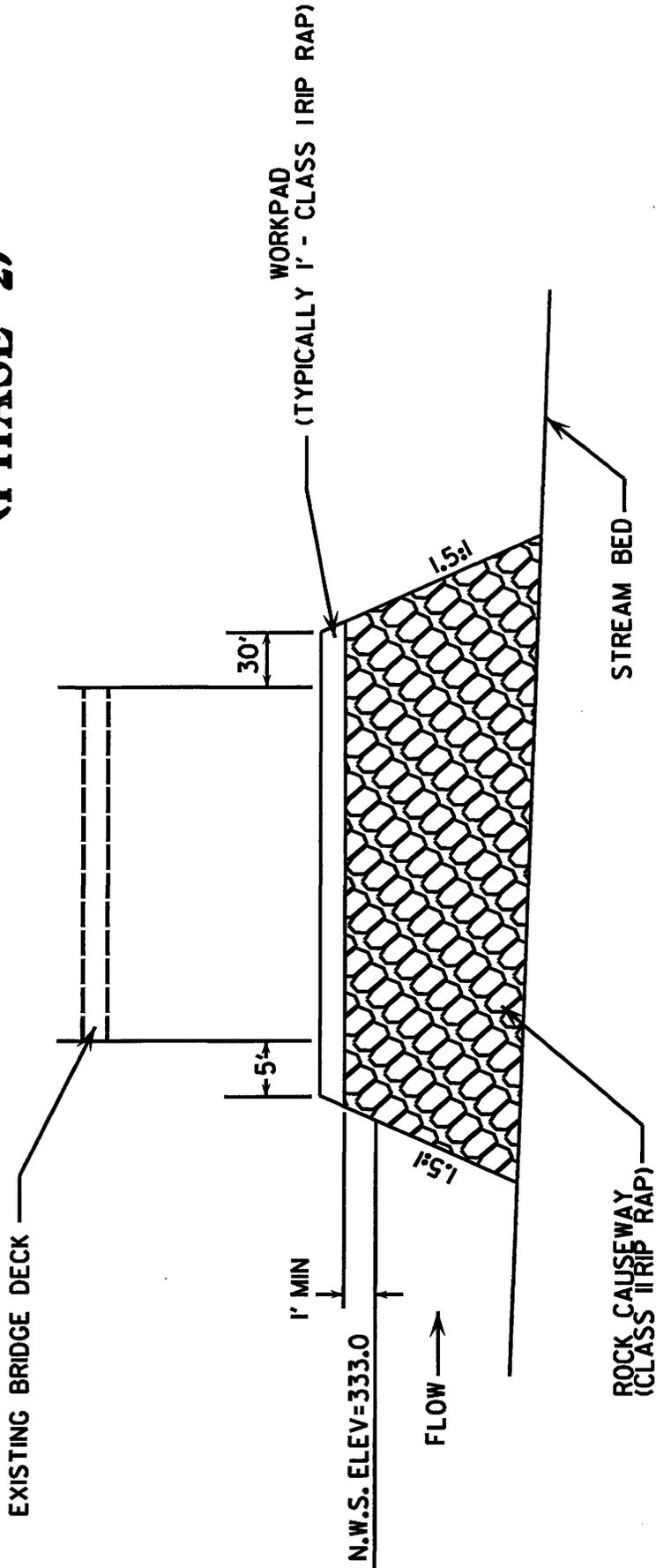
SHEET \_\_\_ OF \_\_\_ 10/02/08

## QUANTITIES OF ESTIMATES

VOLUME OF CLASS II RIP RAP = 37 yds<sup>3</sup>  
AREA OF CLASS II RIP RAP = 0.01 ac  
Estimate 53 Tons Class 'II' Rip Rap

Revised  
Permit Drawing  
Sheet 3 of 10

# TEMP CAUSEWAY DETAIL (NOT TO SCALE) (PHASE 2)



**N.C. DEPT. OF TRANSPORTATION**  
**DIVISION OF HIGHWAYS**  
STANLY COUNTY

PROJECT: 33344.1.1 (B-3909)  
BRIDGE NO. 99 OVER  
LONG CREEK ON SR 1968  
(HARTSELL RD)

SHEET \_\_\_ OF \_\_\_ 10/02/08

## QUANTITIES OF ESTIMATES

VOLUME OF CLASS II RIP RAP = 130 yds<sup>3</sup>  
AREA OF CLASS II RIP RAP = 0.04 ac  
Estimate 185 Tons Class 'II' Rip Rap

Revised  
Permit Drawing  
Sheet 4 of 10



09/08/99

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

STATE OF NORTH CAROLINA  
DIVISION OF HIGHWAYS

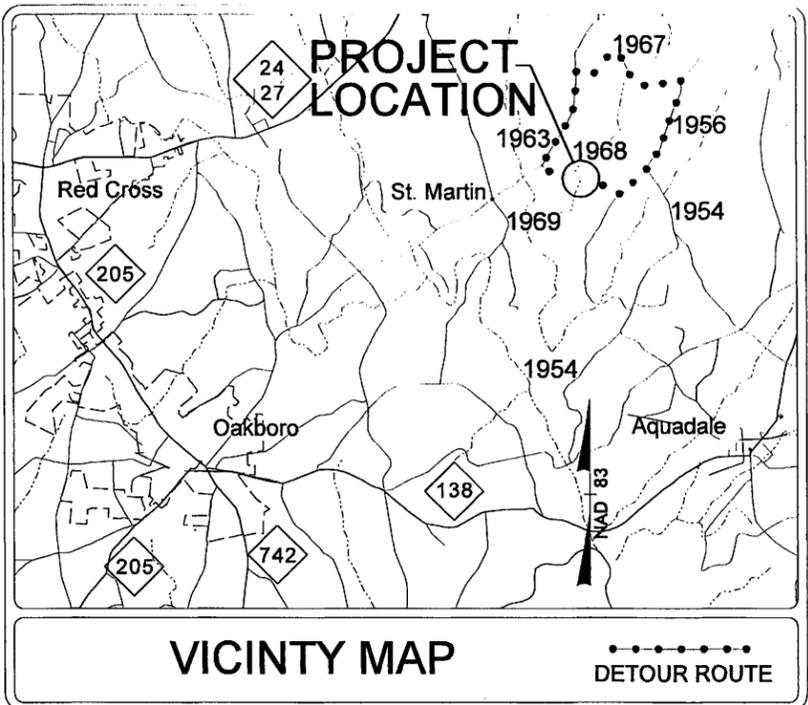
STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	B-3909	1	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	
33344.1.1	BRZ-1968(1)	P.E.	

# STANLY COUNTY

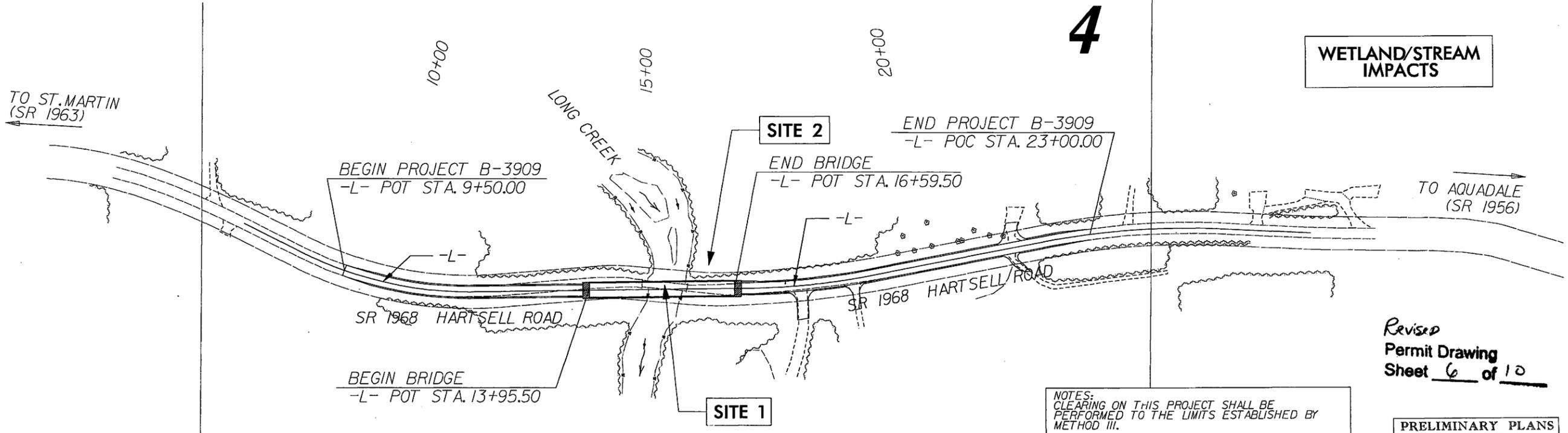
LOCATION: BRIDGE NO. 99 OVER LONG CREEK  
ON SR 1968 (HARTSELL RD)

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

TIP PROJECT: B-3909



VICINITY MAP



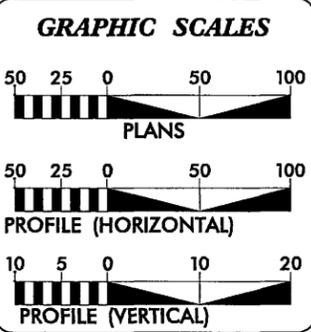
WETLAND/STREAM IMPACTS

Revised  
Permit Drawing  
Sheet 6 of 10

NOTES:  
CLEARING ON THIS PROJECT SHALL BE PERFORMED TO THE LIMITS ESTABLISHED BY METHOD III.  
DESIGNED USING SUB REGIONAL TIER DESIGN GUIDELINES

PRELIMINARY PLANS  
DO NOT USE FOR CONSTRUCTION

NCDOT CONTACT: B. DOUG TAYLOR, P.E. - ROADWAY DESIGN - ENGINEERING COORDINATION



**DESIGN DATA**

ADT 2009 = 740
ADT 2030 = 1,080
DHV = 11 %
D = 60 %
T = 3 % *
V = 50 MPH
FUNC. CLASS = RURAL LOCAL
*TTST 1% DUAL 2%

**PROJECT LENGTH**

LENGTH OF ROADWAY TIP PROJECT B-3909 = 0.206 MILES
LENGTH OF STRUCTURE TIP PROJECT B-3909 = 0.050 MILES
TOTAL LENGTH OF TIP PROJECT B-3909 = 0.256 MILES

Prepared In the Office of:  
**WILBUR SMITH ASSOCIATES**  
421 FAYETTEVILLE STREET, RALEIGH NC, 27601

2006 STANDARD SPECIFICATIONS

RIGHT OF WAY DATE:  
AUGUST 29, 2008

LETTING DATE:  
AUGUST 18, 2009

DAVID L. WILVER, P.E.  
PROJECT ENGINEER

BENJAMIN R. CRAWFORD, P.E.  
PROJECT DESIGN ENGINEER

**HYDRAULICS ENGINEER**

SIGNATURE: \_\_\_\_\_ P.E.

**ROADWAY DESIGN ENGINEER**

SIGNATURE: \_\_\_\_\_ P.E.

**DIVISION OF HIGHWAYS**  
STATE OF NORTH CAROLINA

STATE HIGHWAY DESIGN ENGINEER P.E.

CONTRACT: STINES DATE: 09/08/99

PROJECT REFERENCE NO. B-3909	SHEET NO. 4
R/W SHEET NO. ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
<b>PRELIMINARY PLANS</b> DO NOT USE FOR CONSTRUCTION	
 421 Fryingpan Street, Suite 100 Raleigh, N.C. 27601	

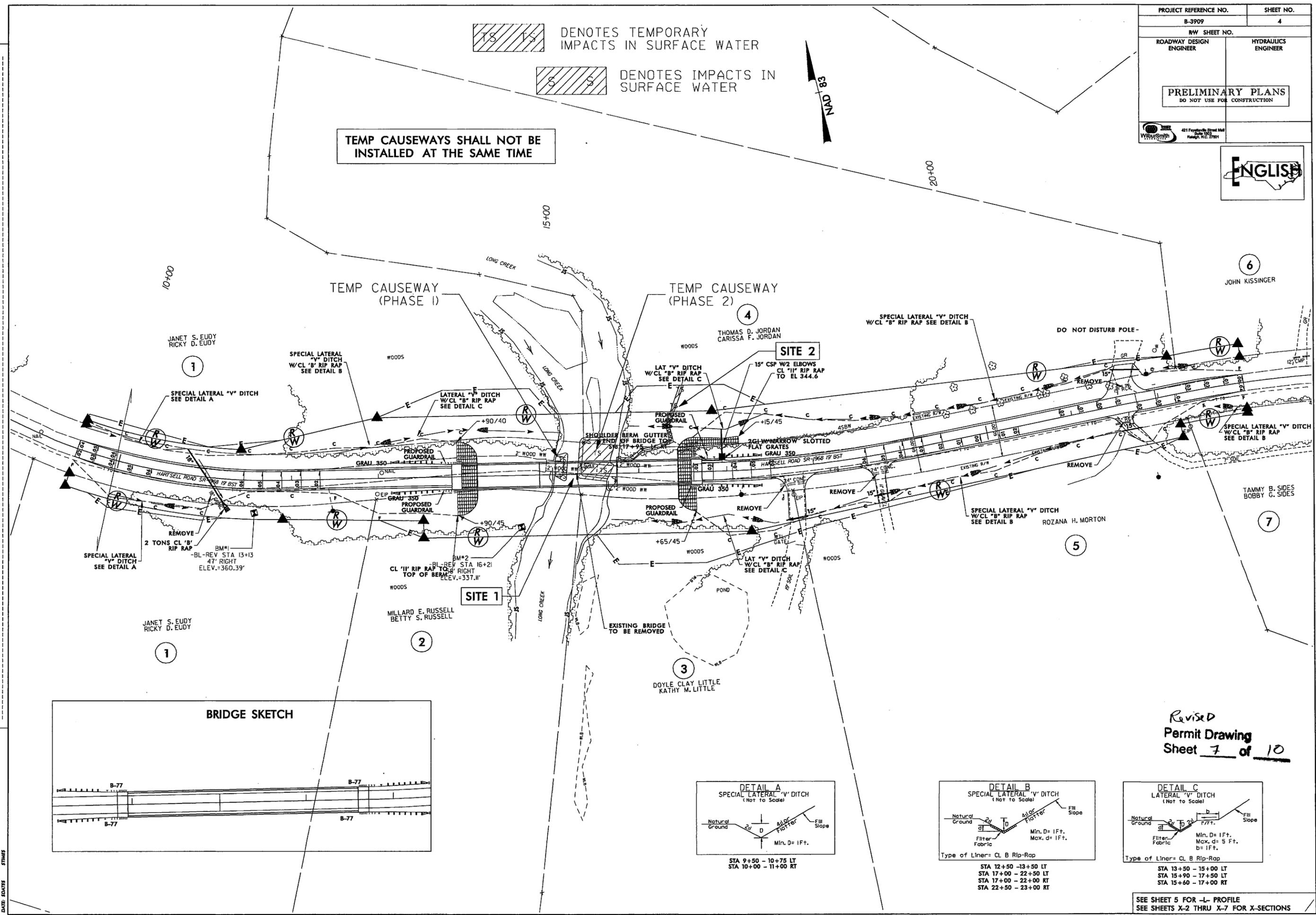


 DENOTES TEMPORARY IMPACTS IN SURFACE WATER

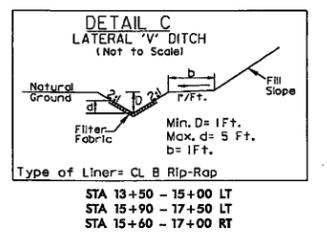
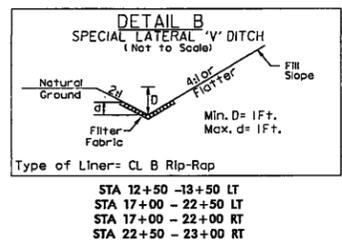
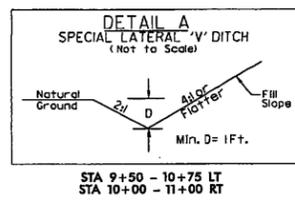
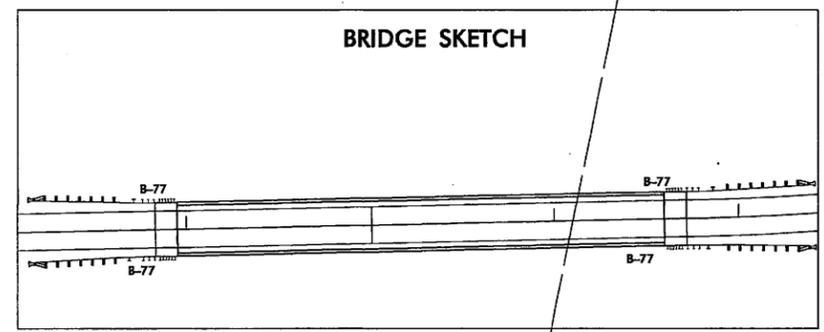
 DENOTES IMPACTS IN SURFACE WATER



**TEMP CAUSEWAYS SHALL NOT BE INSTALLED AT THE SAME TIME**



REVISIONS



Revised  
Permit Drawing  
Sheet 7 of 10

SEE SHEET 5 FOR -L- PROFILE  
SEE SHEETS X-2 THRU X-7 FOR X-SECTIONS

FILES, R/W'S, DATE, STAKES

PROJECT REFERENCE NO. B-3909	SHEET NO. 4
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
<b>PRELIMINARY PLANS</b> DO NOT USE FOR CONSTRUCTION	
 421 Fayetteville Street, Suite 200 Raleigh, N.C. 27601	



6  
JOHN KISSINGER

7  
TAMMY B. SIDES  
BOBBY G. SIDES

5  
ROZANA H. MORTON

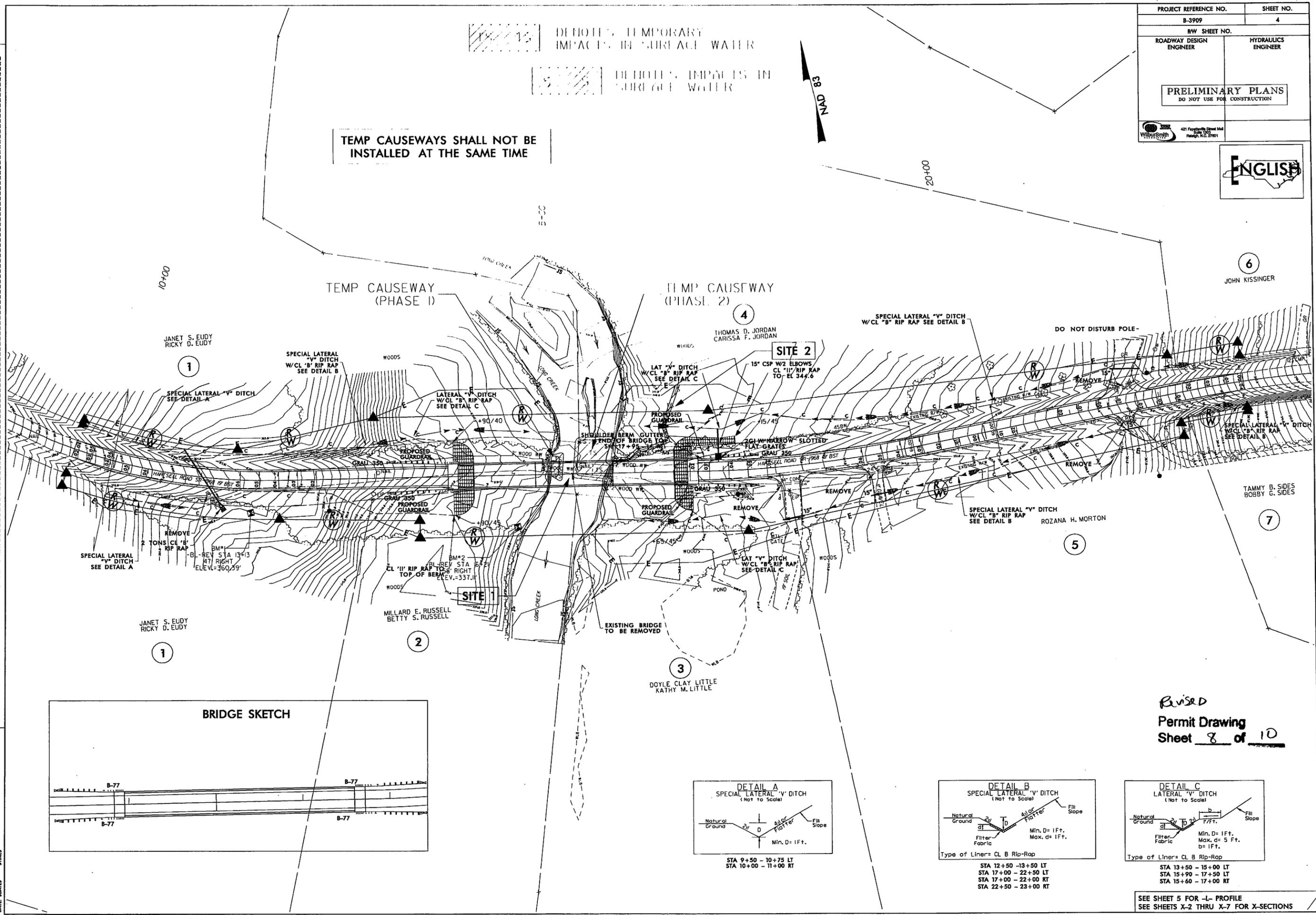
4  
THOMAS D. JORDAN  
CARISSA F. JORDAN

TEMP CAUSEWAYS SHALL NOT BE  
INSTALLED AT THE SAME TIME

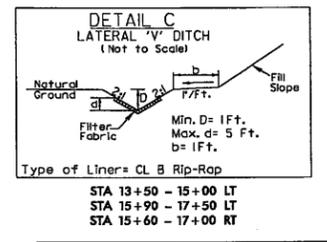
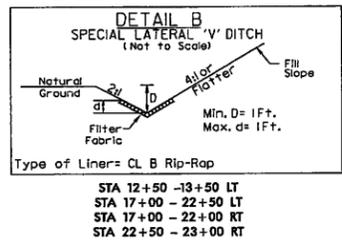
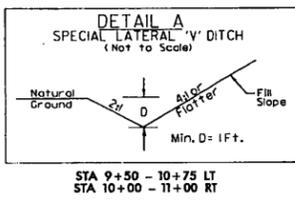
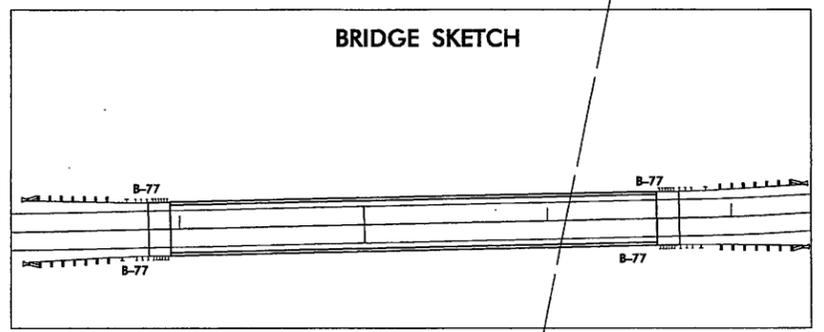
DELETED TEMPORARY  
IMPACTS IN SURFACE WATER

DELETED IMPACTS IN  
SURFACE WATER

NAD 83



REVISIONS

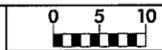


Revised  
Permit Drawing  
Sheet 8 of 10

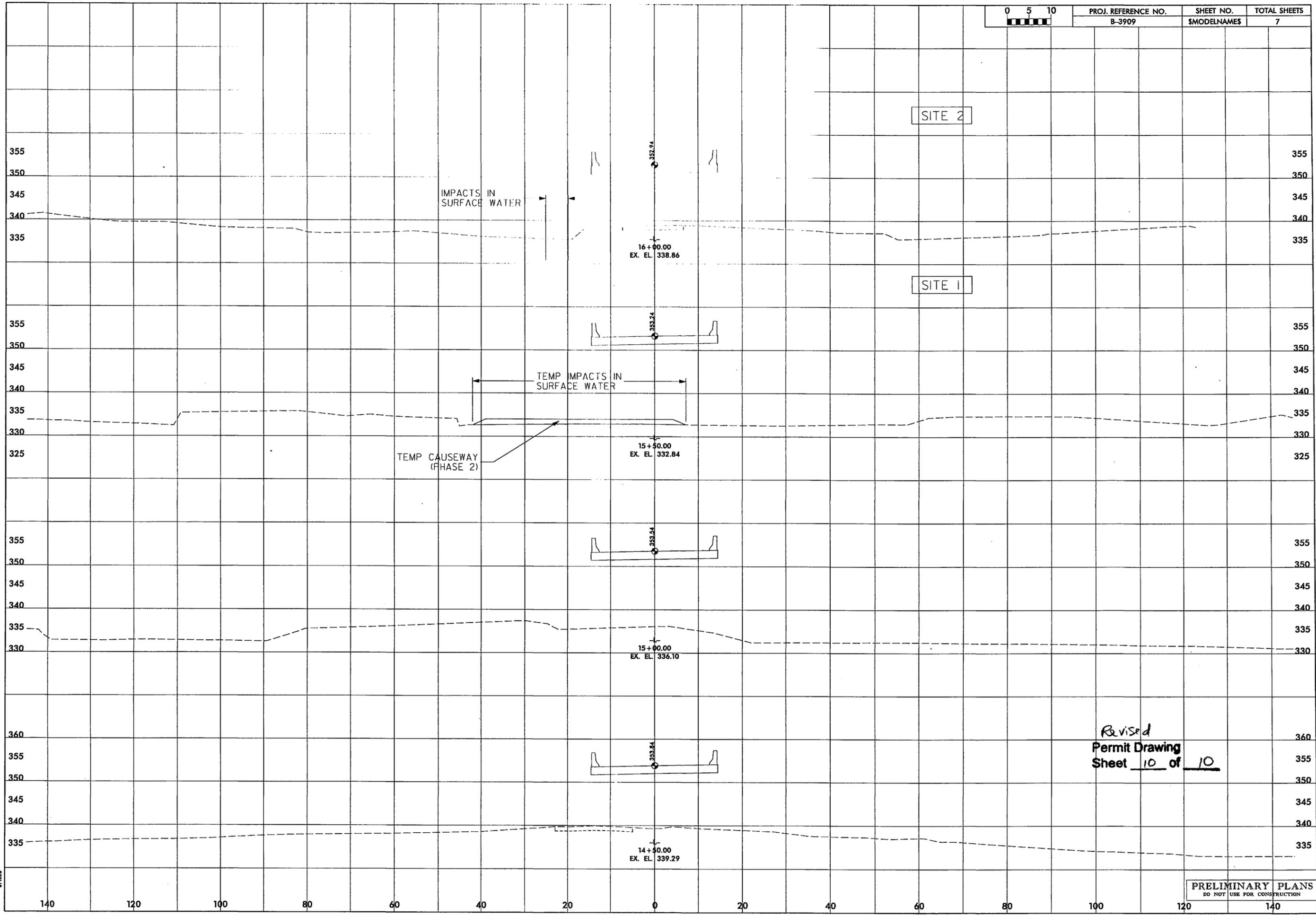
SEE SHEET 5 FOR -L- PROFILE  
SEE SHEETS X-2 THRU X-7 FOR X-SECTIONS

FILE: BFILES DATE: SDATES STAMES





PROJ. REFERENCE NO.	SHEET NO.	TOTAL SHEETS
B-3909		7



DATE: \_\_\_\_\_  
TIME: \_\_\_\_\_  
FILES: \_\_\_\_\_

Revised  
Permit Drawing  
Sheet 10 of 10

PRELIMINARY PLANS  
DO NOT USE FOR CONSTRUCTION

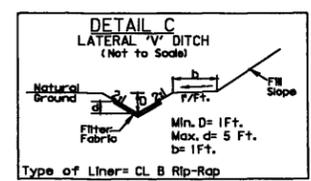
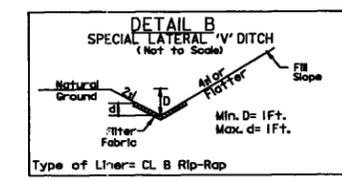
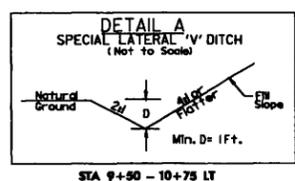
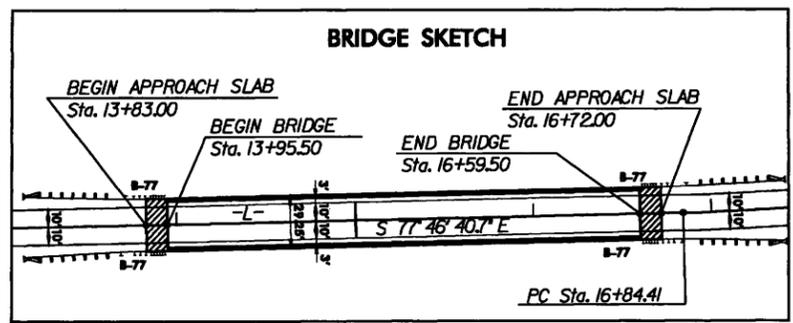
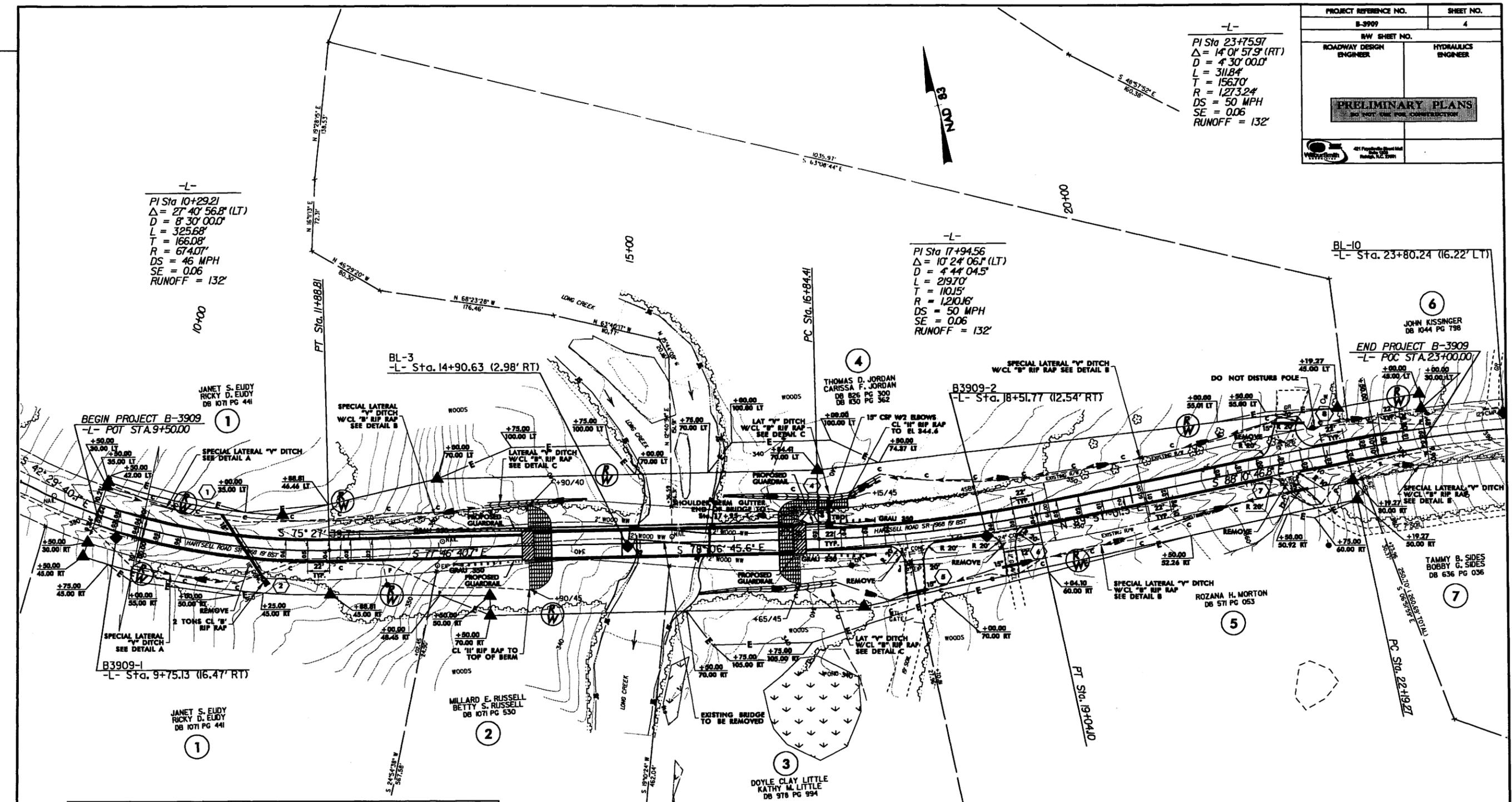
PROJECT REFERENCE NO.	SHEET NO.
B-3909	4
R/W SHEET NO.	HYDRAULICS
ROADWAY DESIGN ENGINEER	ENGINEER
<b>PRELIMINARY PLANS</b> DO NOT USE FOR CONSTRUCTION	

-L-  
 PI Sta 23+75.97  
 $\Delta = 14^{\circ} 0' 57.9" (RT)$   
 $D = 4^{\circ} 30' 00.0"$   
 $L = 311.84'$   
 $T = 156.70'$   
 $R = 1273.24'$   
 $DS = 50 \text{ MPH}$   
 $SE = 0.06$   
 $RUNOFF = 132'$

-L-  
 PI Sta 10+29.21  
 $\Delta = 27^{\circ} 40' 56.8" (LT)$   
 $D = 8^{\circ} 30' 00.0"$   
 $L = 325.68'$   
 $T = 166.08'$   
 $R = 674.07'$   
 $DS = 46 \text{ MPH}$   
 $SE = 0.06$   
 $RUNOFF = 132'$

-L-  
 PI Sta 17+94.56  
 $\Delta = 10^{\circ} 24' 06.1" (LT)$   
 $D = 4^{\circ} 44' 04.5"$   
 $L = 219.70'$   
 $T = 110.15'$   
 $R = 1210.16'$   
 $DS = 50 \text{ MPH}$   
 $SE = 0.06$   
 $RUNOFF = 132'$

BL-10  
 -L- Sta. 23+80.24 (16.22' LT)



Revised Roadway Plan Sheet 4 (4/1/09)

SEE SHEET 5 FOR -L- PROFILE  
 SEE SHEETS X-2 THRU X-7 FOR X-SECTIONS