



STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION

BEVERLY EAVES PERDUE
GOVERNOR

EUGENE A. CONTI, JR.
SECRETARY

June 8, 2012

North Carolina Department of Water Quality
585 Waughtown Street
Winston-Salem, NC 27107

ATTN: Ms. Amy Euliss
NCDOT Coordinator

Subject: **Application for Section 401 Water Quality Certifications with Notification for the use of Section 404 Nationwide Permits 3 and 12** for the Replacement of Bridge No. 221 on SR 1308 (Moose Road) over Lake Fisher in Rowan County, North Carolina, TIP No. B-4809, Federal Aid Project No. BRZ-1308 (9).

Debit \$240.00 from WBS Element 38579.1.1

The North Carolina Department of Transportation (NCDOT) proposes to replace Bridge No. 221 on SR 1308 (Moose Road) over Lake Fisher in Rowan County. This involves replacement of the existing 3 span 140-foot long bridge with a 3 span 182.5-foot long bridge on existing location. An offsite detour will be used. There will be 0.006 acres of stream impacts due to placement of piers in the water to support the 182.5 foot section of new 8 inch water line parallel to the bridge. There will be 0.001 acre of stream impact due to the placement of two bridge bents in the water. There will also be 0.001 acre of temporary stream impacts for the temporary work bridge bents in the water.

Please find enclosed the Pre-Construction Notification (PCN) form, final jurisdictional determination, stormwater management plan, permit drawings, utility construction plans, and design plans for the above referenced project. A Programmatic Categorical Exclusion (PCE) was completed for this project on December 20, 2010 and distributed shortly thereafter. Additional copies are available upon request.

The proposed let date for the project is January 15, 2013 with a review date of November 27, 2012. However, the let date may advance as additional funds become available.

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

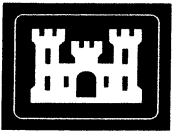
Thank you for your assistance with this project. If you have any questions or need additional information, please contact Deanna Riffey at driffey@ncdot.gov or (919) 707-6151.

Sincerely,



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

cc:
NCDOT Permit Application Standard Distribution List
John Thomas, USACE



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

Pre-Construction Notification (PCN) Form

A. Applicant Information

1. Processing

1a. Type(s) of approval sought from the Corps: Section 404 Permit Section 10 Permit

1b. Specify Nationwide Permit (NWP) numbers: 3 & 12 or General Permit (GP) number:

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

1d. Type(s) of approval sought from the DWQ (check all that apply):
 401 Water Quality Certification – Regular Non-404 Jurisdictional General Permit
 401 Water Quality Certification – Express Riparian Buffer Authorization

1e. Is this notification solely for the record because written approval is not required?	For the record only for DWQ 401 Certification: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	For the record only for Corps Permit: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
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1f. Is payment into a mitigation bank or in-lieu fee program proposed for mitigation of impacts? If so, attach the acceptance letter from mitigation bank or in-lieu fee program.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
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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
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1h. Is the project located within a NC DCM Area of Environmental Concern (AEC)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
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2. Project Information

2a. Name of project:	Replacement of Bridge No. 221 on SR 1308 (Moose Rd) over Lake Fisher
2b. County:	Rowan
2c. Nearest municipality / town:	Kannapolis
2d. Subdivision name:	<i>not applicable</i>
2e. NCDOT only, T.I.P. or state project no.:	B-4809

3. Owner Information

3a. Name(s) on Recorded Deed:	North Carolina Department of Transportation
3b. Deed Book and Page No.	<i>not applicable</i>
3c. Responsible Party (for LLC if applicable):	<i>not applicable</i>
3d. Street address:	1598 Mail Service Center
3e. City, state, zip:	Raleigh, NC 27699-1598
3f. Telephone no.:	(919) 707-6151
3g. Fax no.:	(919) 212-5785
3h. Email address:	driffey@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: 35.509331 Longitude: - 80.570174 (DD.DDDDDD) (-DD.DDDDDD)
1c. Property size:	0.170 mile
2. Surface Waters	
2a. Name of nearest body of water (stream, river, etc.) to proposed project:	Lake Fisher
2b. Water Quality Classification of nearest receiving water:	WSIV; CA
2c. River basin:	Yadkin Pee-Dee
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: Land use in the project vicinity consists of agricultural, pasture land, forested land, interspersed with residential parcels.	
3b. List the total estimated acreage of all existing wetlands on the property: 0.16 acres	
3c. List the total estimated linear feet of all existing streams (intermittent and perennial) on the property: 770 feet	
3d. Explain the purpose of the proposed project: To replace a structurally deficient and obsolete bridge.	
3e. Describe the overall project in detail, including the type of equipment to be used: The project involves replacing a 140-foot bridge with a 182.5-foot bridge on existing alignment using an off-site detour and a workbridge and placement of piers in the water to support the 182.5 foot section of new 8 inch water line parallel to the bridge. 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: open water	<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): D. Riffey, S. Easterly, J. Mason, A. Cox	Agency/Consultant Company: NCDOT Other:
4d. If yes, list the dates of the Corps jurisdictional determinations or State determinations and attach documentation. July 17, 2008	
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 type="checkbox"/> Wetlands		<input type="checkbox"/> Streams - tributaries		<input type="checkbox"/> Buffers		
<input checked="" 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)	
<input type="checkbox"/> P <input type="checkbox"/> T			<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Corps <input type="checkbox"/> DWQ		
<input type="checkbox"/> P <input type="checkbox"/> T			<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Corps <input type="checkbox"/> DWQ		
<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						
2h. Comments:						
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 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 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		
3h. Total stream and tributary impacts						Perm Temp
3i. Comments:						

4. Open Water Impacts

If there are proposed impacts to lakes, ponds, estuaries, tributaries, sounds, the Atlantic Ocean, or any other open water of the U.S. then individually list all open water impacts below.

4a. Open water impact number – Permanent (P) or Temporary (T)	4b. Name of waterbody (if applicable)	4c. Type of impact	4d. Waterbody type	4e. Area of impact (acres)
O1 <input type="checkbox"/> P <input checked="" type="checkbox"/> T	Lake Fisher	Work Bridge Bents	Lake	0.001
O2 <input checked="" type="checkbox"/> P <input type="checkbox"/> T	Lake Fisher	Utility Line Piers	Lake	0.006
O3 <input checked="" type="checkbox"/> P <input type="checkbox"/> T	Lake Fisher	Bridge Bents	Lake	0.001
O4 <input type="checkbox"/> P <input type="checkbox"/> T				
4f. Total open water impacts				0.007 Permanent 0.001 Temporary

4g. Comments: The existing 8" water line that is both underground and on the existing piers with a new 8" water line on new piers of a similar design will be replaced. After the new water line is in service the old water line and piers will be removed. The existing water line that is underground in the causeway will be removed with the excavation for the retaining wall or filled at the contractor's discretion. There are four old piers and we are proposing thirteen new piers. Placement of thirteen piers creates 0.006 acres of impacts.

5. Pond or Lake Construction

If pond or lake construction proposed, then complete the chart below.

5a. Pond ID number	5b. Proposed use or purpose of pond	5c. Wetland Impacts (acres)			5d. Stream Impacts (feet)			5e. Upland (acres)
		Flooded	Filled	Excavated	Flooded	Filled	Excavated	Flooded
P1								
P2								
5f. Total								

5g. Comments:

5h. Is a dam high hazard permit required?	<input type="checkbox"/> Yes <input type="checkbox"/> No If yes, permit ID no:
5i. Expected pond surface area (acres):	
5j. Size of pond watershed (acres):	
5k. Method of construction:	

6. Buffer Impacts (for DWQ)

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


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

D. Impact Justification and Mitigation		
1. Avoidance and Minimization		
1a. Specifically describe measures taken to avoid or minimize the proposed impacts in designing project. The proposed bridge replacement will take place on existing alignment and is longer. Impacts were minimized and stem from a temporary work bridge and two bridge bents in water, which is one less than existing bridge.		
1b. Specifically describe measures taken to avoid or minimize the proposed impacts through construction techniques. NCDOT will use best management for Sedimentation and Erosion Control. An off-site detour will also be utilized.		
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: Open water impacts	
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)	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:		
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 not, explain why. Comments: Not in protected buffer basin.	<input type="checkbox"/> Yes <input checked="" 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 checked="" 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? Habitat for <i>Helianthus schweinitzii</i> .	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
5b. Have you checked with the USFWS concerning Endangered Species Act impacts? No effect: Recent surveys occurred on 7/11/2011.	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
5c. If yes, indicate the USFWS Field Office you have contacted.	<input type="checkbox"/> Raleigh	<input type="checkbox"/> Asheville
5d. What data sources did you use to determine whether your site would impact Endangered Species or Designated Critical Habitat? USFWS county list and NCNHP database along with field surveys.		
6. Essential Fish Habitat (Corps Requirement)		
6a. Will this project occur in or near an area designated as essential fish habitat?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
6b. What data sources did you use to determine whether your site would impact Essential Fish Habitat? NMFS County Index		
7. Historic or Prehistoric Cultural Resources (Corps Requirement)		
7a. Will this project occur in or near an area that the state, federal or tribal governments have designated as having historic or cultural preservation status (e.g., National Historic Trust designation or properties significant in North Carolina history and archaeology)?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
7b. What data sources did you use to determine whether your site would impact historic or archeological resources? NEPA Documentation		
8. Flood Zone Designation (Corps Requirement)		
8a. Will this project occur in a FEMA-designated 100-year floodplain?	<input type="checkbox"/> Yes	<input checked="" 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	 Applicant/Agent's Signature (Agent's signature is valid only if an authorization letter from the applicant is provided.)	June 8, 2011 Date

Action ID: _____

Placement of dredged or fill material within waters of the US and/or wetlands without a Department of the Army permit may constitute a violation of Section 301 of the Clean Water Act (33 USC § 1311). If you have any questions regarding this determination and/or the Corps regulatory program, please contact John Thomas at 919 554-4884 ext. 25.

C. Basis For Determination

Lake Fisher and stream channels within your project site which are tributaries of Cold Water Creek which flows into the Pee Dee River and the Atlantic Ocean. The small wetland located in the horse pasture in the southwest corner of the study is isolated not having a hydrologically connection to the jurisdictional waters of Lake Fisher. .

D. Remarks

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

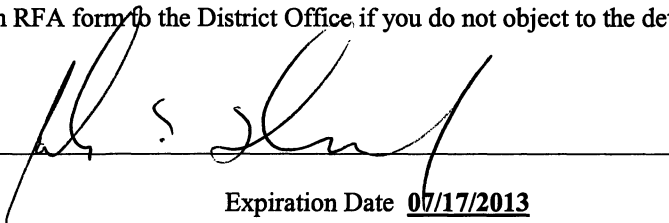
This correspondence constitutes an approved jurisdictional determination for the above described site. If you object to this determination, you may request an administrative appeal under Corps regulations at 33 CFR part 331. Enclosed you will find a Notification of Appeal Process (NAP) fact sheet and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

District Engineer, Wilmington Regulatory Division
Attn: Jean Manuele, Project Manager,
Raleigh Regulatory Field Office
3331 Heritage Trade Drive, Suite 105
Wake Forest, North Carolina 27587

In order for an RFA to be accepted by the Corps, the Corps must determine that it is complete, that it meets the criteria for appeal under 33 CFR part 331.5, and that it has been received by the District Office within 60 days of the date of the NAP. Should you decide to submit an RFA form, it must be received at the above address by September 17, 2008.

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

Corps Regulatory Official: _____



Date 07/17/2008

Expiration Date 07/17/2013

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

Copy furnished:

NOTIFICATION OF ADMINISTRATIVE APPEAL OPTIONS AND PROCESS AND REQUEST FOR APPEAL

Applicant: NC DOT / Deanna Riffey / B-4809	File Number: SAW 2008 02145	Date: July 17, 2008
Attached is:		See Section below
<input type="checkbox"/> INITIAL PROFFERED PERMIT (Standard Permit or Letter of permission)		A
<input type="checkbox"/> PROFFERED PERMIT (Standard Permit or Letter of permission)		B
<input type="checkbox"/> PERMIT DENIAL		C
<input checked="" type="checkbox"/> APPROVED JURISDICTIONAL DETERMINATION		D
<input type="checkbox"/> PRELIMINARY JURISDICTIONAL DETERMINATION		E

SECTION I - The following identifies your rights and options regarding an administrative appeal of the above decision. Additional information may be found at <http://www.usace.army.mil/inet/functions/cw/ccwo/reg> or Corps regulations at 33 CFR Part 331.

A: INITIAL PROFFERED PERMIT: You may accept or object to the permit.

- **ACCEPT:** If you received a Standard Permit, you may sign the permit document and return it to the district engineer for final authorization. If you received a Letter of Permission (LOP), you may accept the LOP and your work is authorized. Your signature on the Standard Permit or acceptance of the LOP means that you accept the permit in its entirety, and waive all rights to appeal the permit, including its terms and conditions, and approved jurisdictional determinations associated with the permit.
- **OBJECT:** If you object to the permit (Standard or LOP) because of certain terms and conditions therein, you may request that the permit be modified accordingly. You must complete Section II of this form and return the form to the district engineer. Your objections must be received by the district engineer within 60 days of the date of this notice, or you will forfeit your right to appeal the permit in the future. Upon receipt of your letter, the district engineer will evaluate your objections and may: (a) modify the permit to address all of your concerns, (b) modify the permit to address some of your objections, or (c) not modify the permit having determined that the permit should be issued as previously written. After evaluating your objections, the district engineer will send you a proffered permit for your reconsideration, as indicated in Section B below.

B: PROFFERED PERMIT: You may accept or appeal the permit

- **ACCEPT:** If you received a Standard Permit, you may sign the permit document and return it to the district engineer for final authorization. If you received a Letter of Permission (LOP), you may accept the LOP and your work is authorized. Your signature on the Standard Permit or acceptance of the LOP means that you accept the permit in its entirety, and waive all rights to appeal the permit, including its terms and conditions, and approved jurisdictional determinations associated with the permit.
- **APPEAL:** If you choose to decline the proffered permit (Standard or LOP) because of certain terms and conditions therein, you may appeal the declined permit under the Corps of Engineers Administrative Appeal Process by completing Section II of this form and sending the form to the division engineer. This form must be received by the division engineer within 60 days of the date of this notice.

C: PERMIT DENIAL: You may appeal the denial of a permit under the Corps of Engineers Administrative Appeal Process by completing Section II of this form and sending the form to the division engineer. This form must be received by the division engineer within 60 days of the date of this notice.

D: APPROVED JURISDICTIONAL DETERMINATION: You may accept or appeal the approved JD or provide new information.

- **ACCEPT:** You do not need to notify the Corps to accept an approved JD. Failure to notify the Corps within 60 days of the date of this notice, means that you accept the approved JD in its entirety, and waive all rights to appeal the approved JD.
- **APPEAL:** If you disagree with the approved JD, you may appeal the approved JD under the Corps of Engineers Administrative Appeal Process by completing Section II of this form and sending the form to the district engineer. This form must be received by the division engineer within 60 days of the date of this notice.

E: PRELIMINARY JURISDICTIONAL DETERMINATION: You do not need to respond to the Corps regarding the preliminary JD. The Preliminary JD is not appealable. If you wish, you may request an approved JD (which may be appealed), by contacting the Corps district for further instruction. Also you may provide new information for further consideration by the Corps to reevaluate the JD.

SECTION II - REQUEST FOR APPEAL or OBJECTIONS TO AN INITIAL PROFFERED PERMIT

REASONS FOR APPEAL OR OBJECTIONS: (Describe your reasons for appealing the decision or your objections to an initial proffered permit in clear concise statements. You may attach additional information to this form to clarify where your reasons or objections are addressed in the administrative record.)

ADDITIONAL INFORMATION: The appeal is limited to a review of the administrative record, the Corps memorandum for the record of the appeal conference or meeting, and any supplemental information that the review officer has determined is needed to clarify the administrative record. Neither the appellant nor the Corps may add new information or analyses to the record. However, you may provide additional information to clarify the location of information that is already in the administrative record.

POINT OF CONTACT FOR QUESTIONS OR INFORMATION:

If you have questions regarding this decision and/or the appeal process you may contact:
John Thomas @ 919 554-4884 ext. 25

If you only have questions regarding the appeal process you may also contact:

Mr. Mike Bell, Administrative Appeal Review Officer

CESAD-ET-CO-R

U.S. Army Corps of Engineers, South Atlantic Division

60 Forsyth Street, Room 9M15

Atlanta, Georgia 30303-8801

RIGHT OF ENTRY: Your signature below grants the right of entry to Corps of Engineers personnel, and any government consultants, to conduct investigations of the project site during the course of the appeal process. You will be provided a 15 day notice of any site investigation, and will have the opportunity to participate in all site investigations.

<p>_____</p> <p>Signature of appellant or agent.</p>	<p>Date:</p>	<p>Telephone number:</p>
--	--------------	--------------------------

For appeals on Initial Proffered Permits and approved Jurisdictional Determinations send this form to:

District Engineer, Wilmington Regulatory Division, Attn: Jean Manuele, Project Manager, Raleigh Regulatory Field Office, 3331 Heritage Trade Drive, Suite 105, Raleigh, North Carolina 27587

For Permit denials and Proffered Permits send this form to:

Division Engineer, Commander, U.S. Army Engineer Division, South Atlantic, Attn: Mr. Mike Bell, Administrative Appeal Officer, CESAD-ET-CO-R, 60 Forsyth Street, Room 9M15, Atlanta, Georgia 30303-8801

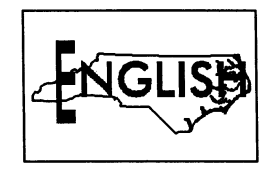


General Project Information	
Project No.:	B-4809
City/Town:	Kannapolis
County(ies):	Rowan County
River Basin(s):	Yadkin-Pee Dee
Primary Receiving Water:	LAKE FISHER
NCDWQ Surface Water Classification for Primary Receiving Water:	Primary: Water Supply IV (WS-IV), CA Supplemental:
Date:	11-Aug-11
Designer:	DDC/PA
Project Manager:	JWT
CAMA County?	no
TVA County?	no
NCDWQ Stream Index:	13-17-9-4(1)
Other Stream Classification:	
303(d) Stream?	no
Type(s) of Impairment:	
State Stormwater Permit Required?	no
If yes, why?	
Could the Project Impact Threatened or Endangered Species?	no
Description:	
Anadromous Fish Present?	no
Description:	
Buffer Rules in Effect?	no
Buffer Rules:	
Existing Site	
Description of Existing Project Area:	BRIDGE No. 221 OVER LAKE FISHER ON SR 1308 (MOOSE ROAD)
Average Daily Traffic (existing):	ADT 2007 = 1500
Existing Cross Section:	19' WIDE BST ROAD SECTION. EXISTING BRIDGE. PAVED SURFACE, 2 LANE, 20.0 FT. CURB-TO-CURB
Surrounding Land Use:	WOODED or FIELD/CROPLAND
General Comments:	
Project Description	
Description of Proposed Project:	REPLACE BRIDGE No. 221 OVER LAKE FISHER. OFFSITE DETOUR.
Average Daily Traffic (proposed):	ADT 2035 = 3400
Proposed Cross-Section:	(2) 12 FT. LANES w/ 4.0 FT. PAVED SHOULDERS(FOR BIKE ROUTE)WITH ADDITIONAL 3.5 FT. SHOULDER ON -L- ALIGNMENT.
Interchange Modification:	no
Median Type:	N/A
West Terminus:	APPROX. 390' WEST OF EXISTING BRIDGE END TOWARD SR 1238.
East Terminus:	APPROX. 160' EAST OF EXISTING BRIDGE END TOWARD SR 3149.
Project Length (lin. miles/feet):	0.109 MI.
General Comments:	Added Impervious Area (ac.): 0.18+/-

09/08/09

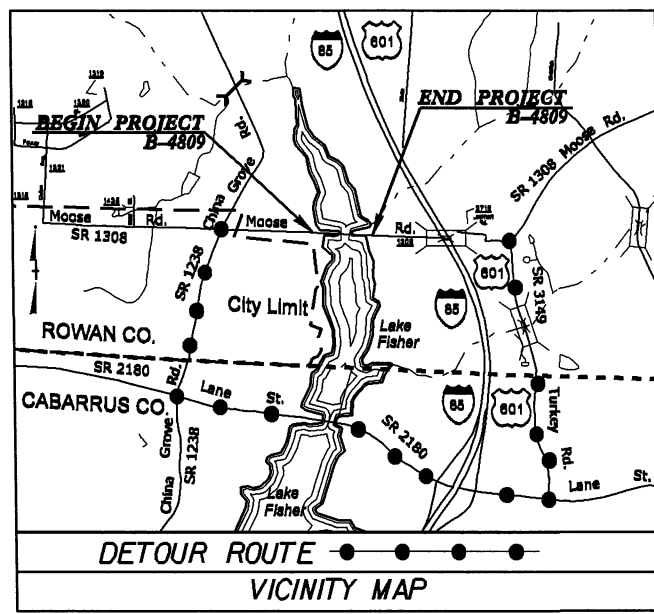
See Sheet 1-A For Index of Sheets

STATE OF NORTH CAROLINA DIVISION OF HIGHWAYS



STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	B-4809	1	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	
38579.1.1	BRZ-1308 (9)	P.E.	
38579.2.1	BRZ-1308 (9)	RW, UTL	
Permit Drawing			
Sheet 1 of 6			

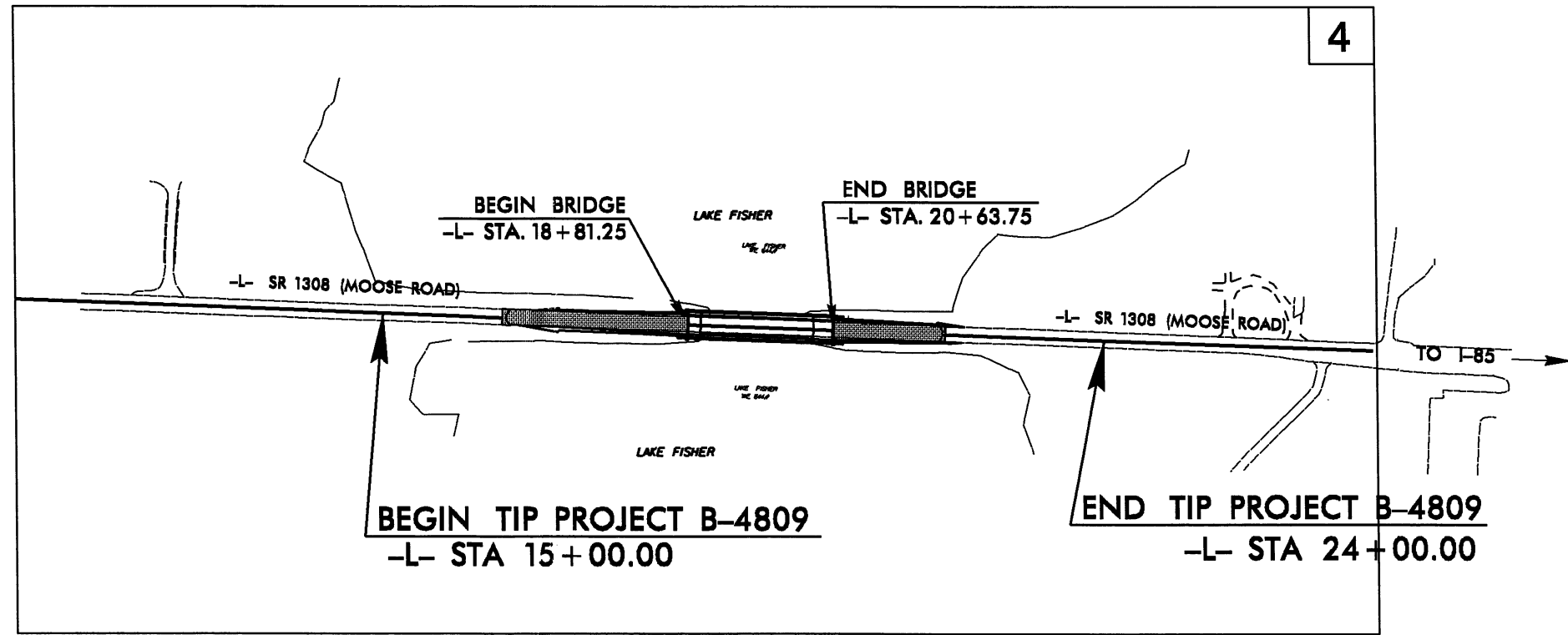
TIP PROJECT: B-4809



LOCATION: BRIDGE 221 OVER LAKE FISHER ON SR 1308

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

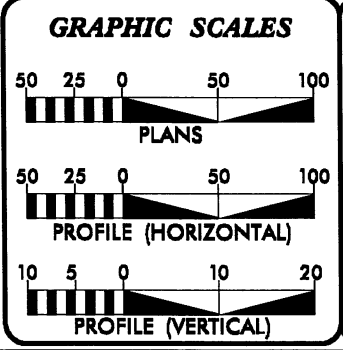
WETLAND/SURFACE WATER PERMIT DWG.



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

**PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION**

CONTRACT:



DESIGN DATA

ADT 2007 =	1500
ADT 2035 =	3400
DHV =	10 %
D =	60 %
T =	15 % *
V =	60 MPH
FUNC CLASS =	LOCAL
* TTST 12	DUAL 3%
SUB REGIONAL TIER	

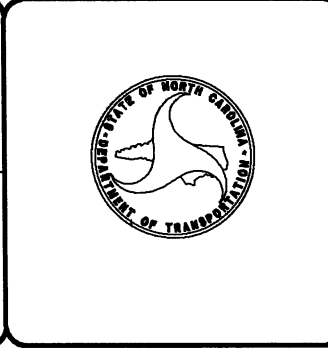
PROJECT LENGTH

LENGTH ROADWAY TIP PROJECT B-4809 =	0.135 MILE
LENGTH STRUCTURE TIP PROJECT B-4809 =	0.035 MILE
TOTAL LENGTH TIP PROJECT B-4809 =	0.170 MILE

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

2012 STANDARD SPECIFICATIONS	
RIGHT OF WAY DATE: DECEMBER 16, 2011	TONY A. HOUSER, PE PROJECT ENGINEER
LETTING DATE: JANUARY 15, 2013	BRUCE B. PAYNE, PE PROJECT DESIGN ENGINEER

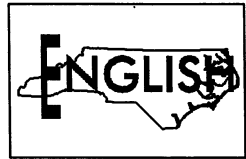
HYDRAULICS ENGINEER	SIGNATURE: _____
ROADWAY DESIGN ENGINEER	SIGNATURE: _____



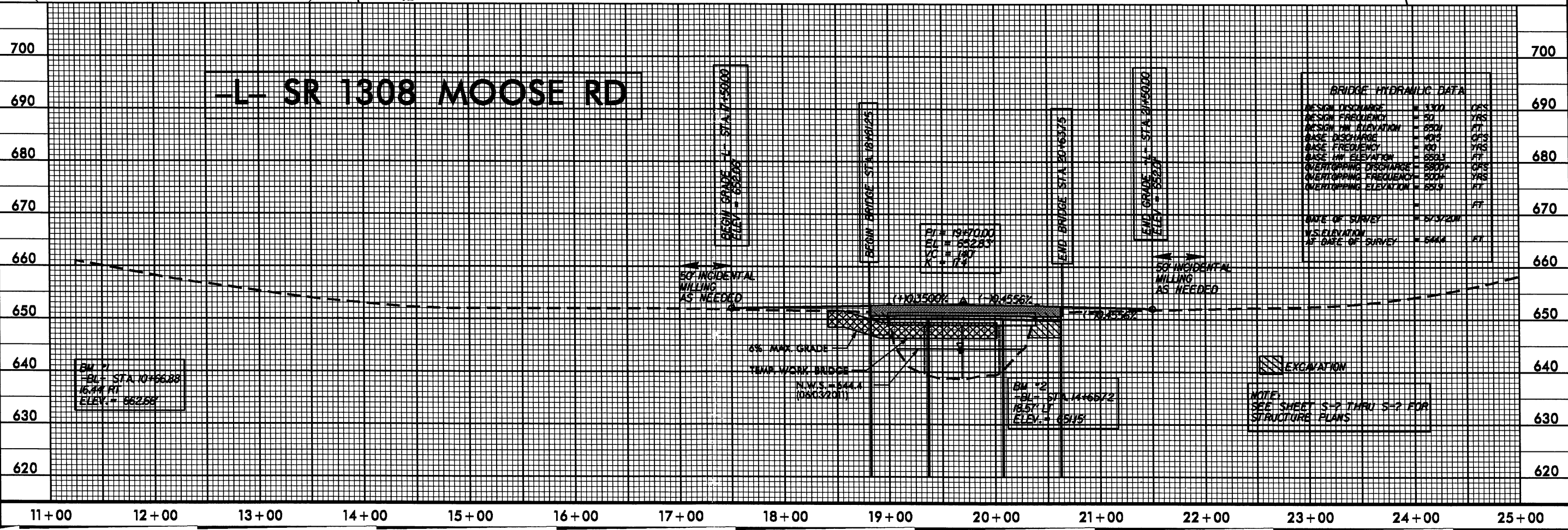
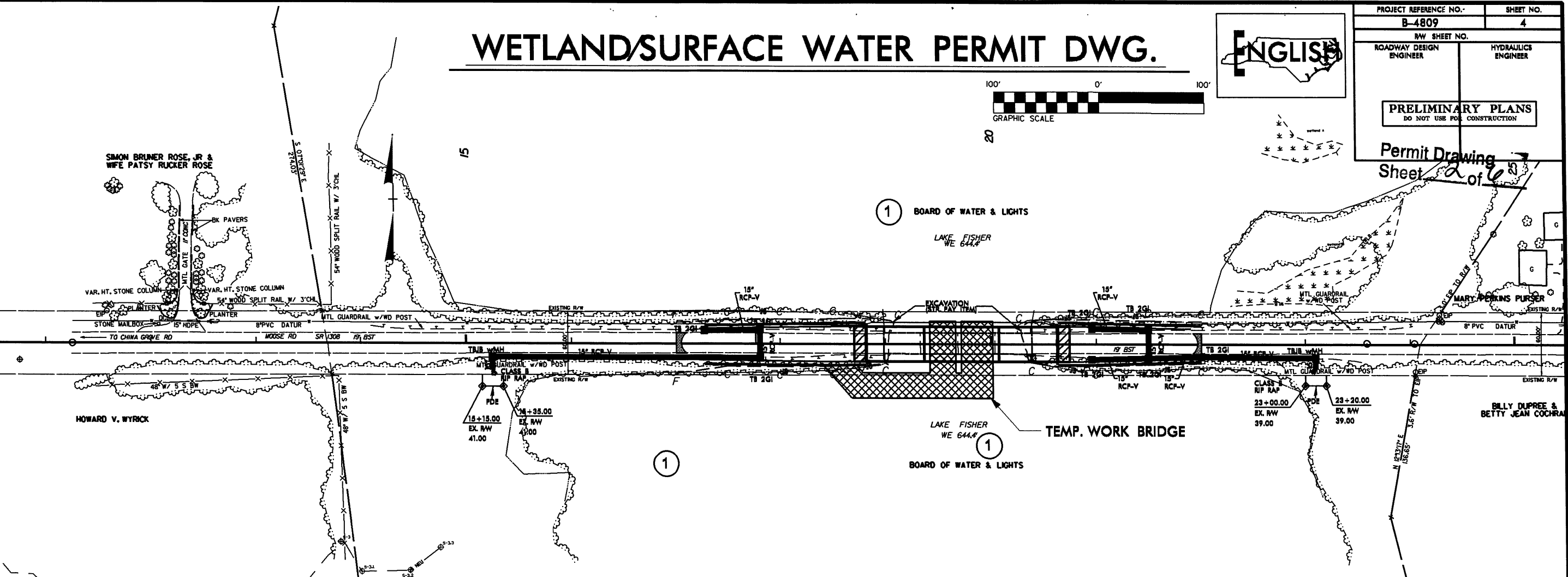
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\$\$\$\$\$DGN\$\$\$\$\$
\$\$\$\$\$USERNAME\$\$\$\$\$

8/17/99

WETLAND/SURFACE WATER PERMIT DWG.



PROJECT REFERENCE NO. B-4809		SHEET NO. 4	
RW SHEET NO.		HYDRAULICS ENGINEER	
ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER	
PRELIMINARY PLANS DO NOT USE FOR CONSTRUCTION			
Permit Drawing Sheet 2 of 3			



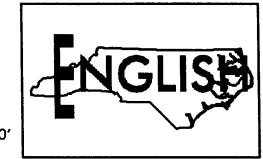
BRIDGE HYDRAULIC DATA		
DESIGN DISCHARGE	= 1300	CFS
DESIGN FREQUENCY	= 50	YRS
DESIGN HW ELEVATION	= 6501	FT
BASE DISCHARGE	= 495	CFS
BASE FREQUENCY	= 100	YRS
BASE HW ELEVATION	= 6503	FT
OVERTOPPING DISCHARGE	= 5800	CFS
OVERTOPPING FREQUENCY	= 500	YRS
OVERTOPPING ELEVATION	= 6519	FT
DATE OF SURVEY	= 5/31/2001	
WATERWAY	= 544.4	FT
AT DATE OF SURVEY		

NOTE:
SEE SHEET S-7 THRU S-7 FOR
STRUCTURE PLANS

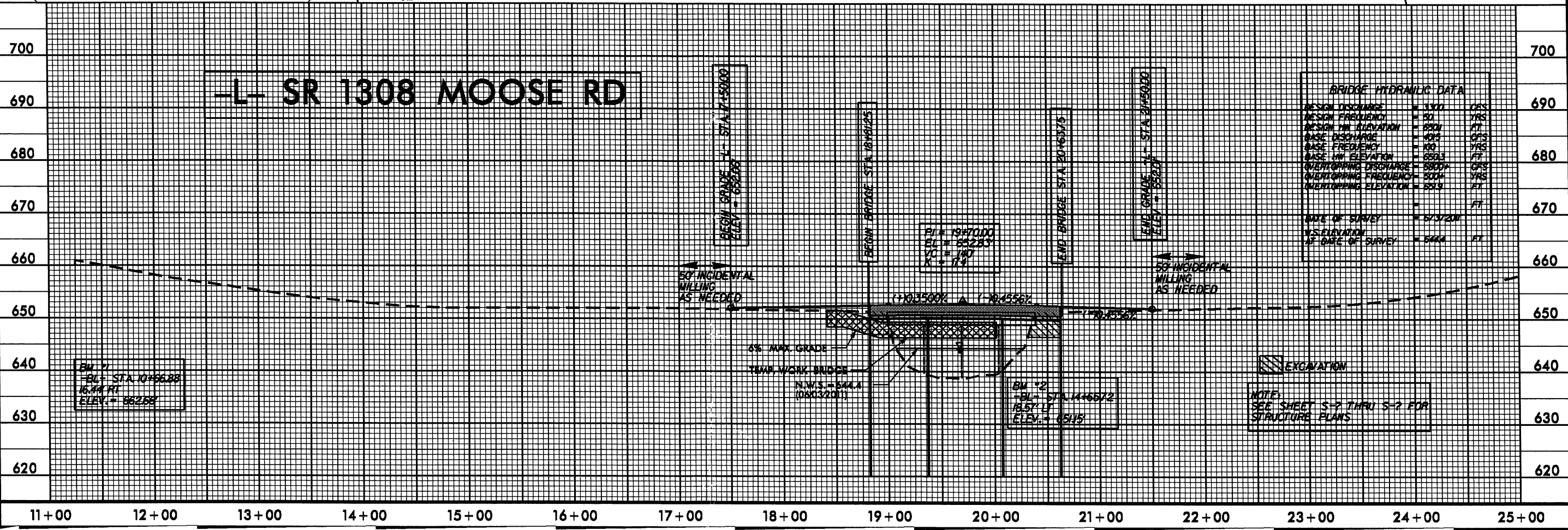
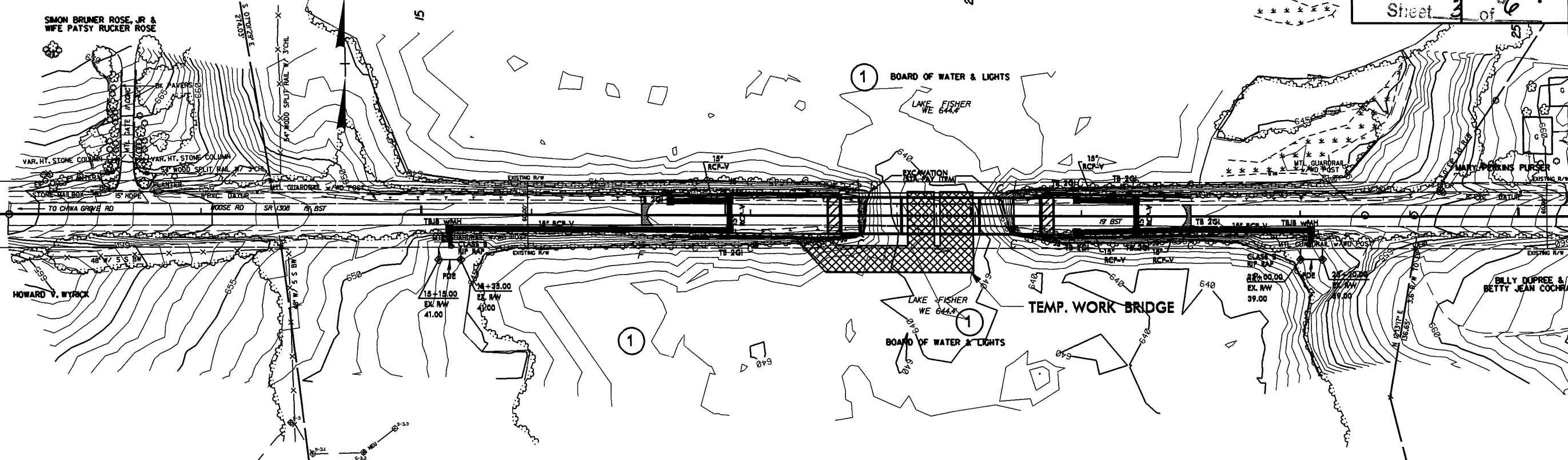
SYSTEMS

8/17/99

WETLAND/SURFACE WATER PERMIT DWG.

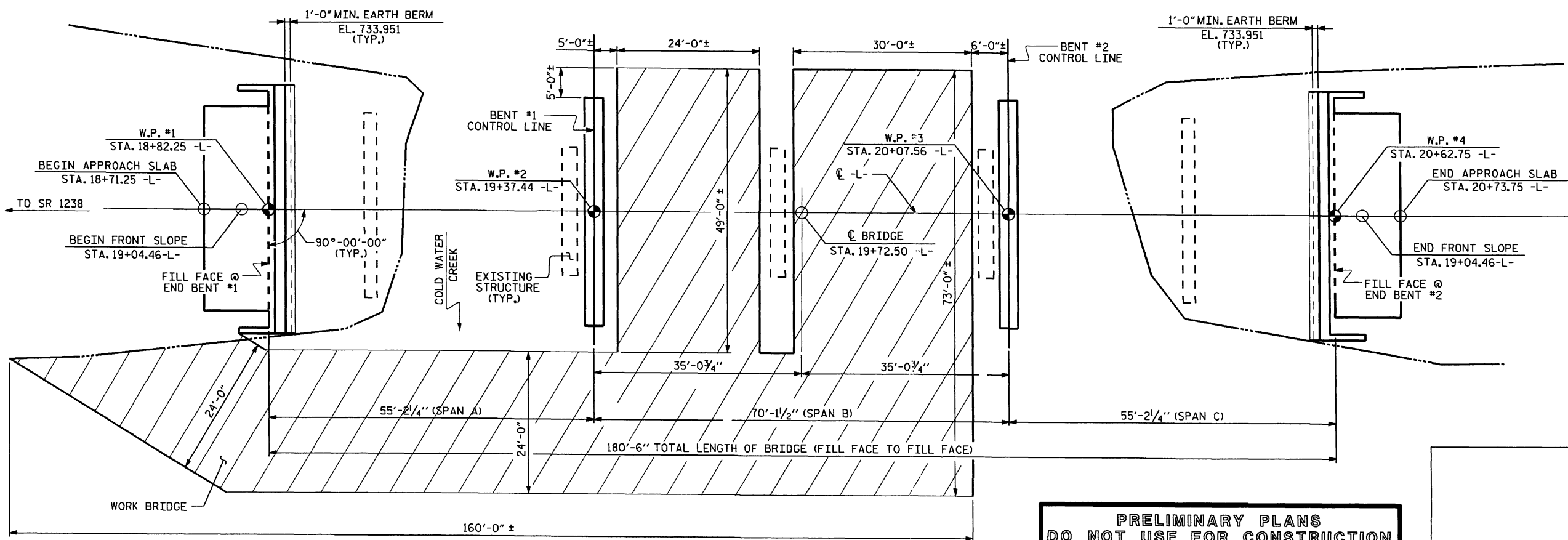
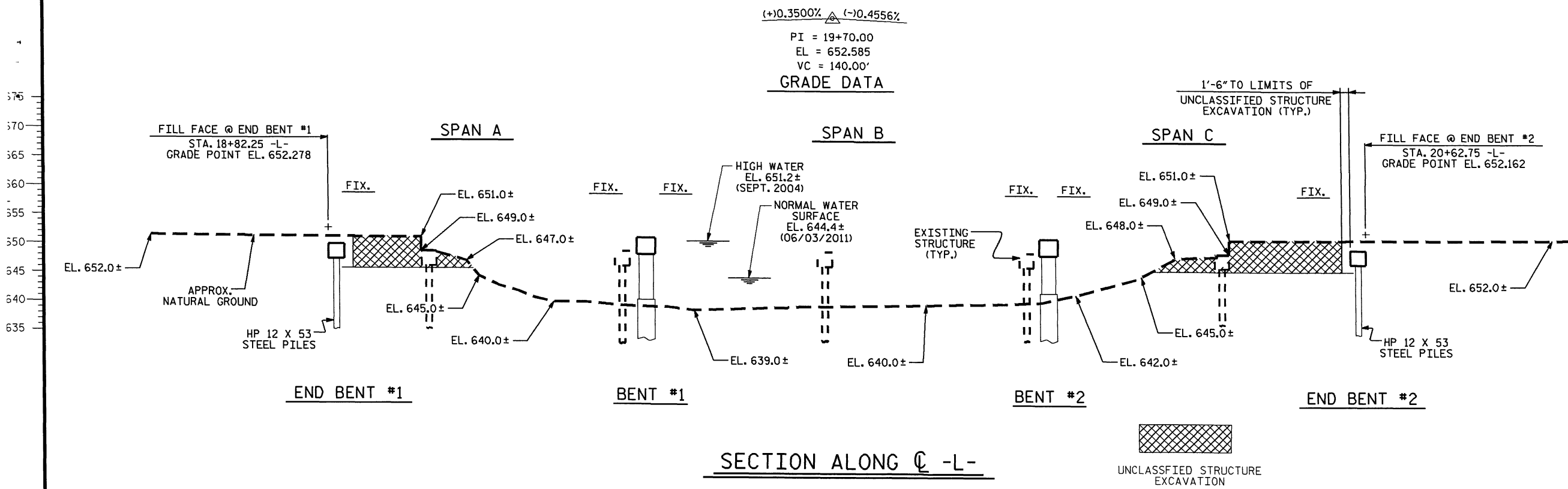


PROJECT REFERENCE NO. B-4809		SHEET NO. 4	
RW SHEET NO.		HYDRAULICS ENGINEER	
ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER	
PRELIMINARY PLANS DO NOT USE FOR CONSTRUCTION			
Permit Drawing Sheet 3 of 6			



*****SYTIME*****
*****ADDON*****
*****L*****
*****U*****
*****M*****
*****A*****
*****I*****
*****N*****
*****E*****

Permit Drawing
Sheet 4 of 6



**PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION**

PROJECT NO. B-4809
 ROWAN COUNTY
 STATION: 19+72.50 -L-
 SHEET 1 OF 2 REPLACES BRIDGE NO. 221

STATE OF NORTH CAROLINA
 DEPARTMENT OF TRANSPORTATION
 RALEIGH

**PRELIMINARY
GENERAL DRAWING FOR
BRIDGE OVER COLD
WATER CREEK/LAKE
FISHER ON SR 1308
BETWEEN SR 1238
AND SR 1349**

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

DRAWN BY: M. G. SHAIKH DATE: 08-25-11
 CHECKED BY: B. KLAPPENBACH DATE: 11-14-11

(PILES NOT SHOWN FOR CLARITY)

PROPERTY OWNERS
NAMES AND ADDRESSES

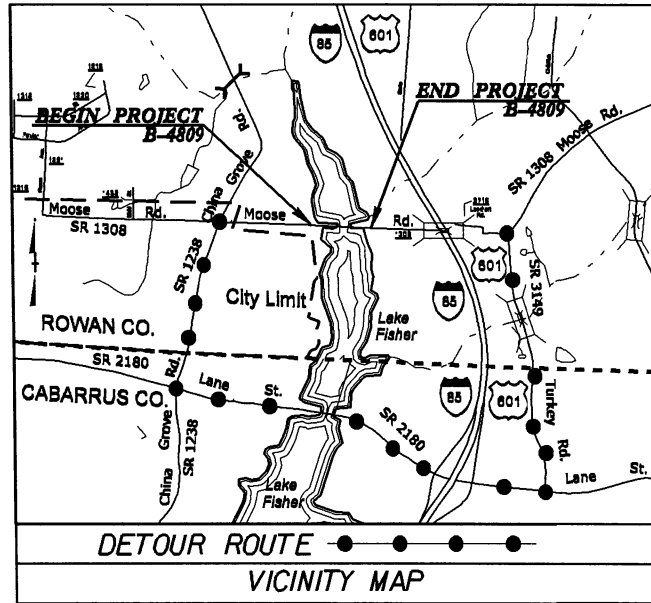
PARCEL NO.	NAMES	ADDRESSES
1	Board of Water & Lights	

NCDOT
DIVISION OF HIGHWAYS
ROWAN COUNTY
PROJECT: 38579.1.1 (B-4809)
BRIDGE NO. 221 OVER
LAKE FISHER ON
SR 1308 (MOOSE ROAD)
SHEET 5 OF 6 02 / 22 / 12

09/08/99

29-MAY-2012 11:08 R:\Utilities\ARGV\UT\Proj\B4809\Ut_Title_UC1_psh.dgn \$\$\$USERNAME\$\$\$

TIP PROJECT: B-4809



STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

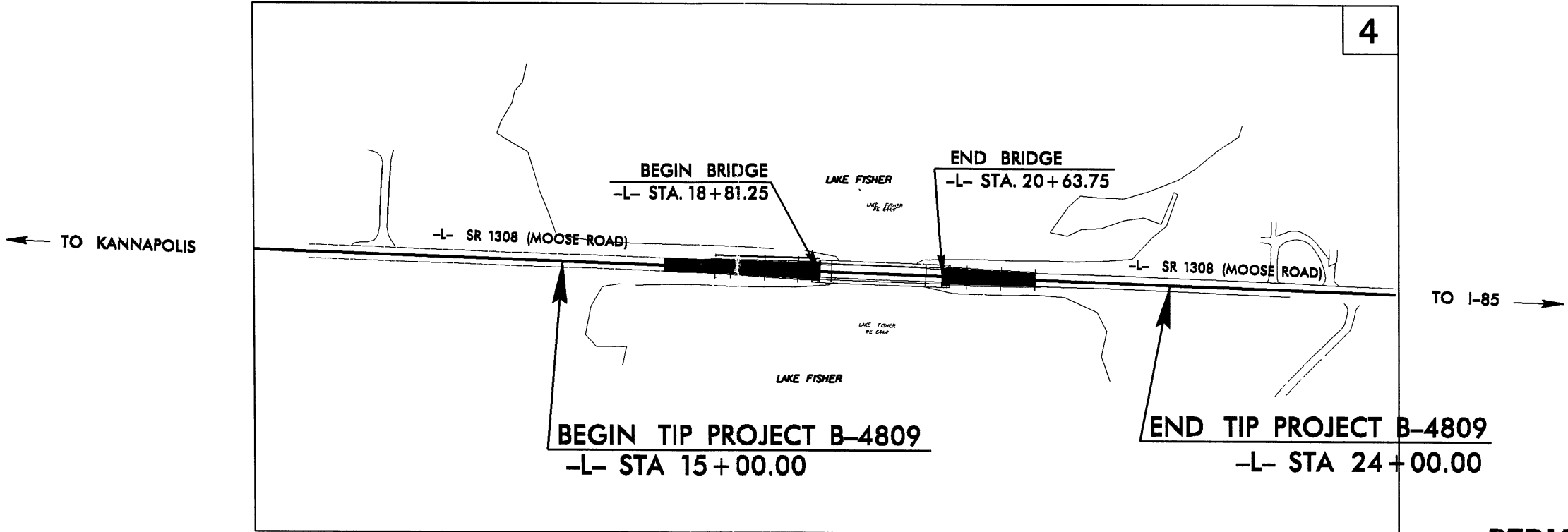
**UTILITY CONSTRUCTION PLANS
ROWAN COUNTY**

LOCATION: BRIDGE 221 OVER LAKE FISHER ON SR 1308

TYPE OF WORK: UTILITY WORK - WATER

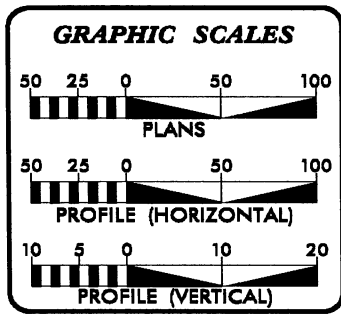
T.I.P. NO.	SHEET NO.
B-4809	UC-1

Utility Permit Drawing
Sheet 1 of 2



PERMIT DRAWINGS

PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION



INDEX OF SHEETS	
SHEET NO.	DESCRIPTION
UC-1	TITLE SHEET
UC-2	UTILITY CONSTRUCTION PLAN

WATER AND SEWER OWNERS ON PROJECT	
(A) WATER	CITY OF KANNAPOLIS

SEAL

PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION

PREPARED IN THE OFFICE OF:
DIVISION OF HIGHWAYS
UTILITIES UNIT
ENGINEERING SECTION
1555 MAIL SERVICES CENTER
RALEIGH NC 27695-1591
PHONE (919) 707-6690
FAX (919) 250-4151

Roger Worthington, P.E. UTILITIES SECTION ENGINEER
Steve McKee, P.E. UTILITIES SQUAD LEADER PROJECT ENGINEER
John A. Nigro, P.E. UTILITIES PROJECT DESIGNER

5/14/99

29-MAY-2012 11:53 Pro-j:\B4809_Ut-4_UC2.dgn

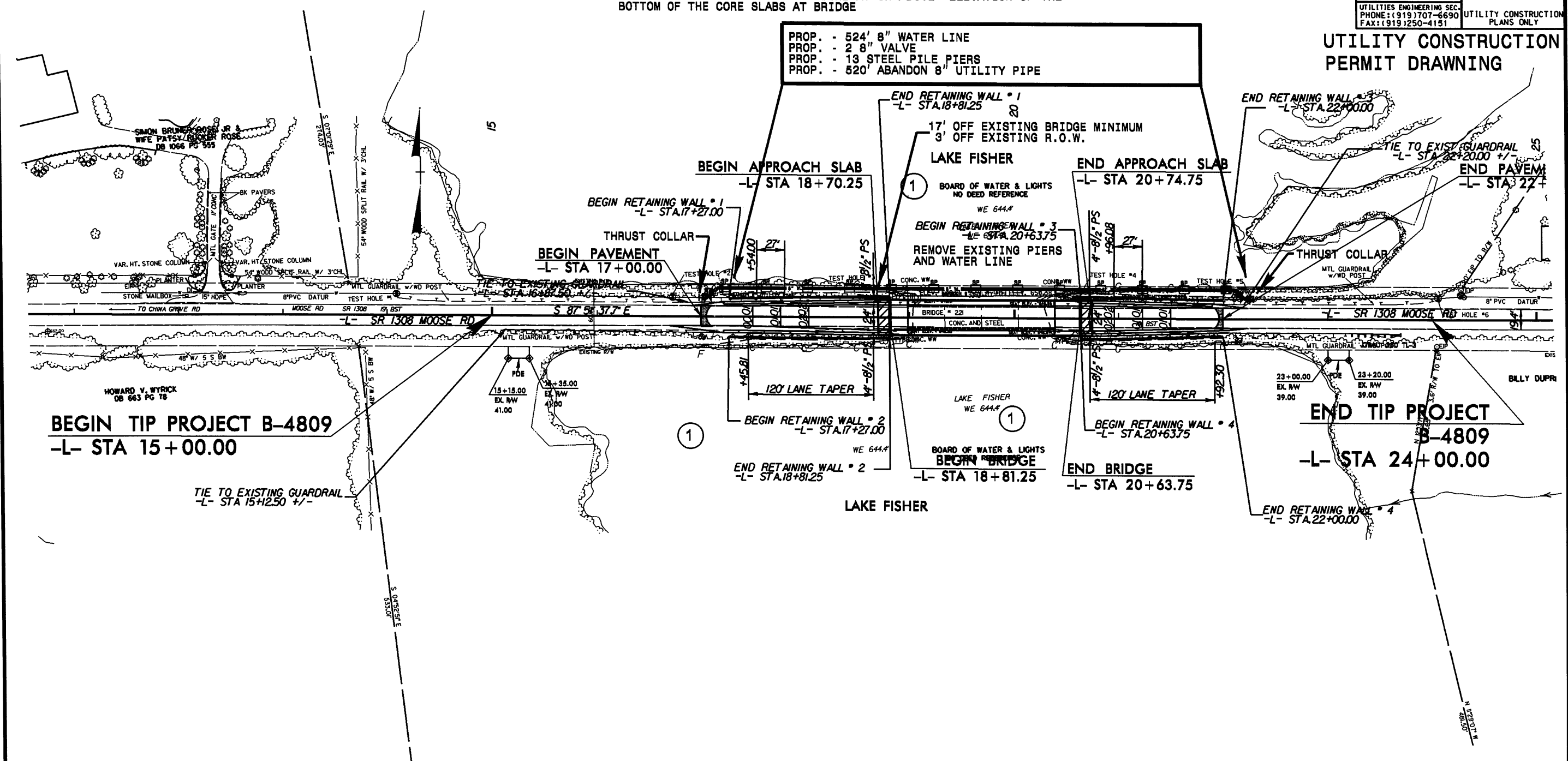
PROJECT REFERENCE NO.	SHEET NO.
B-4832	UC-2
DESIGNED BY: JAN	
DRAWN BY: JAN	
CHECKED BY: PRELIMINARY PLANS	
DO NOT REUSE FOR CONSTRUCTION	
REVISED:	
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION	
UTILITIES ENGINEERING SEC. UTILITY CONSTRUCTION PLANS ONLY	
PHONE: (919) 707-6690	
FAX: (919) 250-4151	

Utility Permit Drawing
Sheet 2 of 2

8" WATER LINE TO BE RIGID RESTRAIN JOINT DUCTILE IRON PC 350
SET PROPOSED BOTTOM OF WATER LINE AT OR ABOVE ELEVATION OF THE
BOTTOM OF THE CORE SLABS AT BRIDGE

PROP. - 524' 8" WATER LINE
PROP. - 2 8" VALVE
PROP. - 13 STEEL PILE PIERS
PROP. - 520' ABANDON 8" UTILITY PIPE

UTILITY CONSTRUCTION PERMIT DRAWING



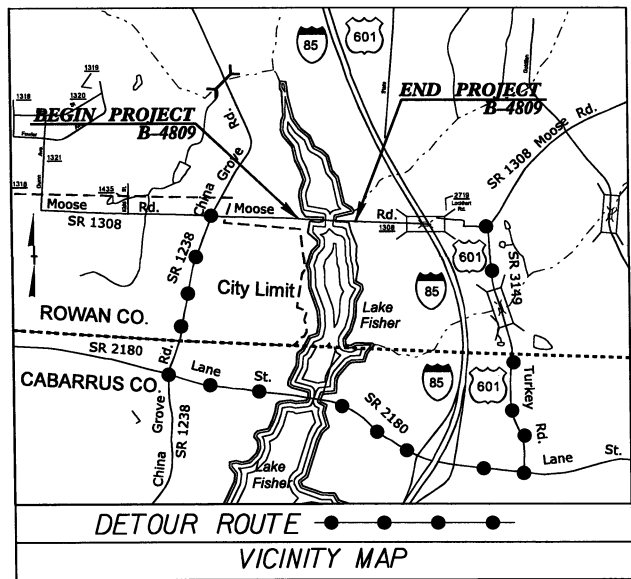
BEGIN TIP PROJECT B-4809
-L- STA 15+00.00

END TIP PROJECT B-4809
-L- STA 24+00.00

29-MAY-2012 11:53 Pro-j:\B4809_Ut-4_UC2.dgn

09/08/99

See Sheet 1-A For Index of Sheets



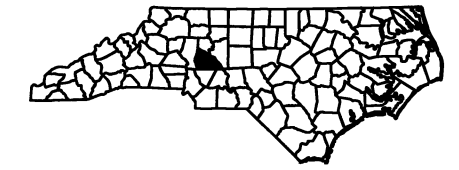
STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

ROWAN COUNTY

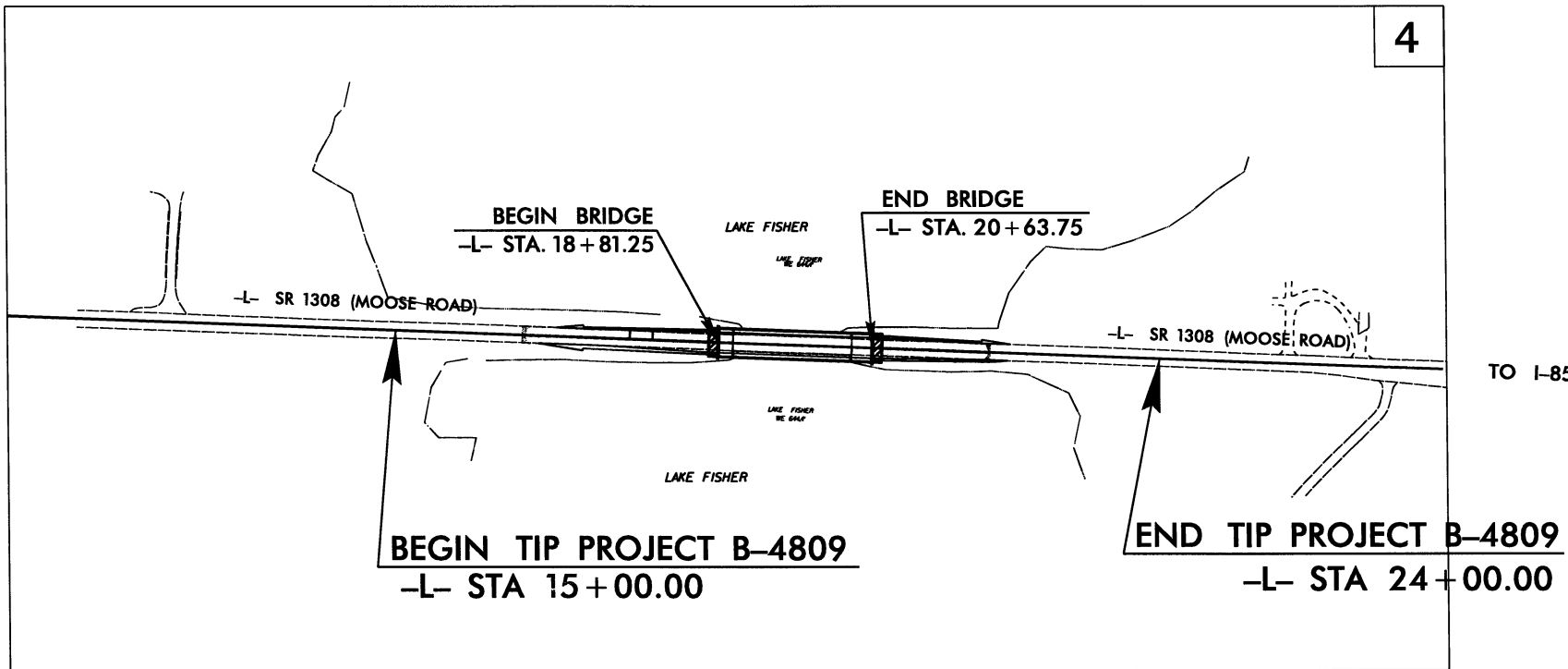
LOCATION: BRIDGE 221 OVER LAKE FISHER ON SR 1308

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

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	B-4809	1	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	
38579.1.1	BRZ-1308 (9)	P.E.	
38579.2.1	BRZ-1308 (9)	RW, UTL	



TIP PROJECT: B-4809

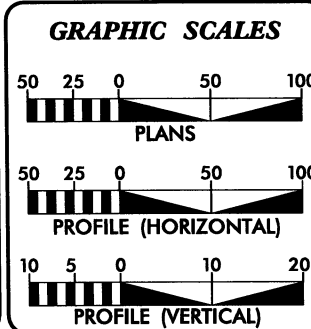


**THIS PROJECT IS NOT WITHIN ANY MUNICIPAL BOUDARIES.
THERE IS NO CONTROL OF ACCESS ON THIS PROJECT.
CLEARING ON THIS PROJECT SHALL BE PERFORMED TO THE LIMITS ESTABLISHED BY METHOD III**

**PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION**

16-DEC-2011 09:04
P:\PROJECTS\4809\1\B4809_rdy_tsh.dgn
\$\$\$\$\$USERNAME\$\$\$\$\$

CONTRACT:



DESIGN DATA

ADT 2007 =	1500
ADT 2035 =	3400
DHV =	10 %
D =	60 %
T =	15 % *
V =	60 MPH
FUNC CLASS =	LOCAL
* TTST 12	DUAL 3%
SUB REGIONAL TIER	

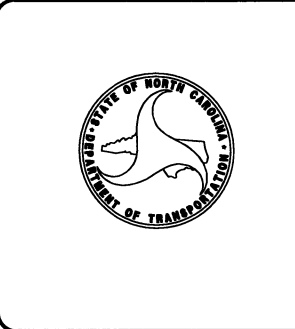
PROJECT LENGTH

LENGTH ROADWAY TIP PROJECT B-4809 =	0.135 MILE
LENGTH STRUCTURE TIP PROJECT B-4809 =	0.035 MILE
TOTAL LENGTH TIP PROJECT B-4809 =	0.170 MILE

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

2012 STANDARD SPECIFICATIONS	
RIGHT OF WAY DATE: DECEMBER 16, 2011	TONY A. HOUSER, PE PROJECT ENGINEER
LETTING DATE: JANUARY 15, 2013	BRUCE B. PAYNE, PE PROJECT DESIGN ENGINEER

HYDRAULICS ENGINEER	SIGNATURE: _____
ROADWAY DESIGN ENGINEER	SIGNATURE: _____



04/16/11

Note: Not to Scale

*S.U.E. = Subsurface Utility Engineering

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

CONVENTIONAL PLAN SHEET SYMBOLS

BOUNDARIES AND PROPERTY:

State Line	-----
County Line	-----
Township Line	-----
City Line	-----
Reservation Line	-----
Property Line	-----
Existing Iron Pin	○
Property Corner	✕
Property Monument	□
Parcel/Sequence Number	②③
Existing Fence Line	-x-x-x-
Proposed Woven Wire Fence	○
Proposed Chain Link Fence	□
Proposed Barbed Wire Fence	◇
Existing Wetland Boundary	W.S.
Proposed Wetland Boundary	W.S.
Existing Endangered Animal Boundary	E.A.B.
Existing Endangered Plant Boundary	E.P.B.
Known Soil Contamination: Area or Site	☠
Potential Soil Contamination: Area or Site	☠

BUILDINGS AND OTHER CULTURE:

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

HYDROLOGY:

Stream or Body of Water	~~~~~
Hydro, Pool or Reservoir	□
Jurisdictional Stream	-JS-
Buffer Zone 1	BZ 1
Buffer Zone 2	BZ 2
Flow Arrow	←
Disappearing Stream	→
Spring	○
Wetland	W.S.
Proposed Lateral, Tail, Head Ditch	▬
False Sump	▽

RAILROADS:

Standard Gauge	-----
RR Signal Milepost	CSX TRANSPORTATION MILEPOST 35
Switch	SWITCH
RR Abandoned	-----
RR Dismantled	-----

RIGHT OF WAY:

Baseline Control Point	◇
Existing Right of Way Marker	△
Existing Right of Way Line	-----
Proposed Right of Way Line	-----
Proposed Right of Way Line with Iron Pin and Cap Marker	-----
Proposed Right of Way Line with Concrete or Granite Marker	-----
Existing Control of Access	⊕
Proposed Control of Access	⊕
Existing Easement Line	E
Proposed Temporary Construction Easement	E
Proposed Temporary Drainage Easement	TDE
Proposed Permanent Drainage Easement	PDE
Proposed Permanent Drainage / Utility Easement	DUE
Proposed Permanent Utility Easement	PUE
Proposed Temporary Utility Easement	TUE
Proposed Aerial Utility Easement	AUE
Proposed Permanent Easement with Iron Pin and Cap Marker	◇

ROADS AND RELATED FEATURES:

Existing Edge of Pavement	-----
Existing Curb	-----
Proposed Slope Stakes Cut	C
Proposed Slope Stakes Fill	F
Proposed Curb Ramp	CR
Existing Metal Guardrail	-----
Proposed Guardrail	-----
Existing Cable Guiderail	-----
Proposed Cable Guiderail	-----
Equality Symbol	⊕
Pavement Removal	▬

VEGETATION:

Single Tree	○
Single Shrub	○
Hedge	~~~~~
Woods Line	~~~~~

Orchard	-----
Vineyard	Vineyard

EXISTING STRUCTURES:

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

UTILITIES:

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

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	T
Designated U/G Telephone Cable (S.U.E.*)	T
Recorded U/G Telephone Conduit	TC
Designated U/G Telephone Conduit (S.U.E.*)	TC
Recorded U/G Fiber Optics Cable	T FO
Designated U/G Fiber Optics Cable (S.U.E.*)	T FO

WATER:

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

TV:

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

GAS:

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

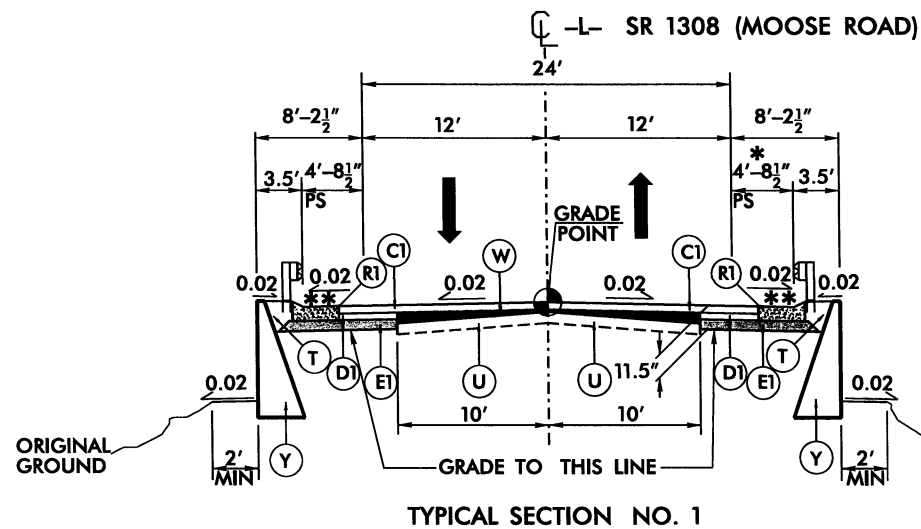
SANITARY SEWER:

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

MISCELLANEOUS:

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

PROJECT REFERENCE NO. B-4809	SHEET NO. 2
ROADWAY DESIGN ENGINEER	PAVEMENT DESIGN ENGINEER
PRELIMINARY PLANS DO NOT USE FOR CONSTRUCTION	



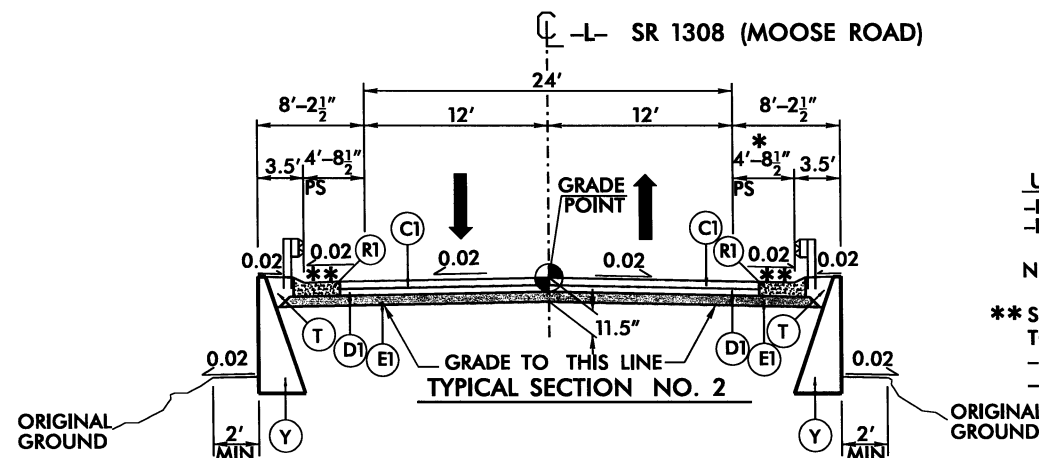
USE TYPICAL SECTION NO. 1
 -L- STA. 17+00.00 TO -L- STA. 18+33.55
 -L- STA. 21+03.55 TO -L- STA. 21+50.00

NOTE: 4'-8 1/2" PAVED SHOULDER USED FOR BIKE ROUTE

* SHOULDER WIDENING FOR GUARDRAIL ONLY
 -L- STA. 21+50.00 TO -L- STA. 22+25.00 (RIGHT)

** SHOULDER BERM GUTTER USED FROM -L- STA. 17+22.00 TO -L- STA. 18+81.25 (BEGIN BRIDGE) RT AND LT AND -L- STA. 20+63.75 (END BRIDGE) TO -L- STA. 21+90.00 LT AND -L- STA. 20+63.75 (END BRIDGE) TO -L- STA. 22+05.00 RT

TYPICAL SECTION NO. 1

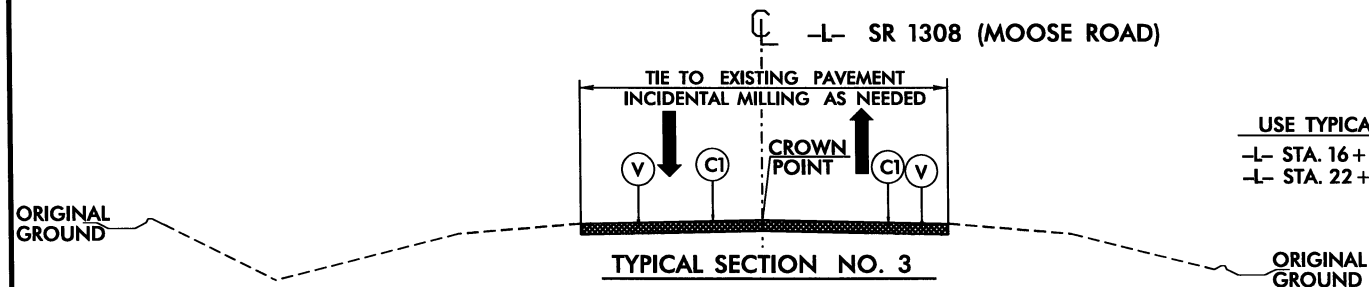


USE TYPICAL SECTION NO. 2
 -L- STA. 18+33.55 TO -L- STA. 18+81.25 (BEGIN BRIDGE)
 -L- STA. 20+63.75 (END BRIDGE) TO -L- STA. 21+03.55

NOTE: 4'-8 1/2" PAVED SHOULDER USED FOR BIKE ROUTE

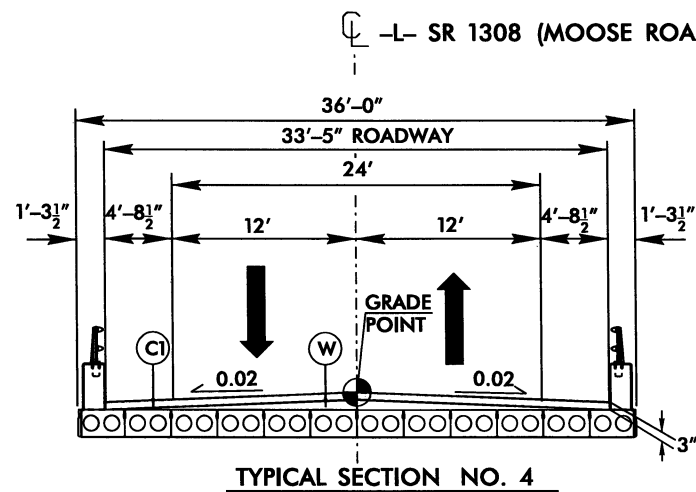
** SHOULDER BERM GUTTER USED FROM -L- STA. 17+22.00 TO -L- STA. 18+81.25 (BEGIN BRIDGE) RT AND LT AND -L- STA. 20+63.75 (END BRIDGE) TO -L- STA. 21+90.00 LT AND -L- STA. 20+63.75 (END BRIDGE) TO -L- STA. 22+05.00 RT

TYPICAL SECTION NO. 2



USE TYPICAL SECTION NO. 3
 -L- STA. 16+50.00 TO -L- STA. 17+00.00
 -L- STA. 22+00.00 TO -L- STA. 22+50.00

TYPICAL SECTION NO. 3

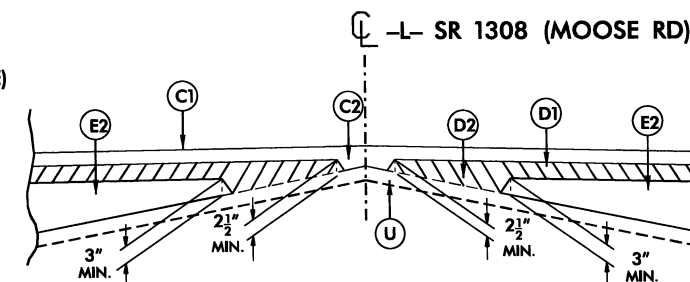


USE TYPICAL SECTION NO. 4
 -L- STA. 18+81.25 (BEGIN BRIDGE) TO -L- STA. 20+63.75 (END BRIDGE)

TYPICAL SECTION NO. 4

PAVEMENT SCHEDULE (REVISED FINAL PAVEMENT DESIGN DECEMBER 9, 2011)	
C1	PROP. APPROX. 2" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 224 LBS. PER SQ. YD.
C2	PROP. VAR. DEPTH ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 112 LBS. PER SQ. YD. PER 1" DEPTH, TO BE PLACED IN LAYERS NOT TO EXCEED 2" DEPTH.
D1	PROP. APPROX. 3" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE I19.0B, AT AN AVERAGE RATE OF 342 LBS. PER SQ. YD.
D2	PROP. VAR. DEPTH ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE I19.0B, AT AN AVERAGE RATE OF 114 LBS. PER SQ. YD. PER 1" DEPTH, TO BE PLACED IN LAYERS NOT LESS THAN 2.5" OR GREATER THAN 4" DEPTH.
E1	PROP. APPROX. 7" ASPHALT CONCRETE BASE COURSE, TYPE B25.0B, AT AN AVERAGE RATE OF 399 LBS. PER SQ. YD. IN EACH OF TWO LAYERS.
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" OR GREATER THAN 5.5" DEPTH.
R1	SHOULDER BERM GUTTER
T	EARTH MATERIAL.
U	EXISTING PAVEMENT.
V	INCIDENTAL MILLING.
W	VARIABLE DEPTH ASPHALT PAVEMENT (SEE DETAIL SHOWING METHOD OF WEDGING).
Y	RETAINING WALL.

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



Detail Showing Method of Wedging

