



STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION

BEVERLY EAVES PERDUE
GOVERNOR

EUGENE A. CONTI, JR.
SECRETARY

January 13, 2012

Mr. Brian Wrenn
N.C. Dept. of Env. & Natural Resources
Division of Water Quality
1650 Mail Service Center
Raleigh, NC 27699-1650

Mr. Stephen Lane
N.C. Dept. of Env. & Natural Resources
Division of Coastal Management
400 Commerce Avenue
Morehead City, NC 28557

Dear Sirs:

Subject: Application for a Section 401 Water Quality Certification, Tar-Pam Riparian Buffer Authorization Request, CAMA General Permits, and Notice of Use of Section 404 Nationwide Permits 3 and 12 for the replacement of Bridge No. 54 over St. Clair Creek on NC 99 in Beaufort County. Federal Aid Project Number BRSTP-0099(5); Debit \$800 from WBS 38359.1.1; TIP No. B-4418.

The North Carolina Department of Transportation (NCDOT), Division of Highways, in consultation with the Federal Highway Administration (FHWA), proposes to replace Bridge No. 54 in Beaufort County. The proposed let date for the project is September 18, 2012 with a review date of July 31, 2012; however, the let date may advance as additional funds become available. The permanent impact to Waters of the US associated with this project is 0.02 acre.

Please find enclosed a Pre-Construction Notification (PCN) form, Division of Coastal Management Major Permit Form 1, U.S. Coast Guard Advance Permit Approval letter, adjacent riparian landowner certified mail receipts, permit drawings, buffer drawings, utility drawings, roadway plans, and a copy of the State Stormwater Management Plan. A Programmatic Categorical Exclusion (PCE) was completed for this project on March 17, 2011, and distributed shortly thereafter. Additional copies are available upon request.

Regulatory Approvals

Section 404 Permit: The NCDOT intends to proceed with the construction of this project under Nationwide Permits 3 and 12. All general conditions will be met and therefore NCDOT is not requesting written approval from the U.S. Army Corps of Engineers.

Section 401 Permit: We anticipate 401 Certification numbers 3687 and 3819 will apply to this project. All general conditions of the Water Quality Certification will be met and we are requesting written approval from NCDWQ. We are providing five copies of this application to the NCDWQ for their approval.

CAMA: NCDOT requests that the proposed work be authorized under Coastal Area Management Act General Permits. The adjacent riparian landowner return receipts will be forwarded once they are received. Authorization to debit the \$800 Permit Application Fee from WBS Element 38359.1.1 is hereby given.

Tar-Pamlico River Basin Buffer Authorization: NCDOT requests that the NC Division of Water Quality review this application and issue a written approval for a Tar-Pamlico Riparian Buffer Authorization.

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

If you have any questions or need additional information, please call or email Tyler Stanton at (919)707-6156 or tstanton@ncdot.gov.

Sincerely,



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

cc:
NCDOT Permit Application Standard Distribution List



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

Pre-Construction Notification (PCN) Form

A. Applicant Information

1. Processing

1a. Type(s) of approval sought from the Corps:	<input checked="" type="checkbox"/> Section 404 Permit	<input type="checkbox"/> Section 10 Permit
1b. Specify Nationwide Permit (NWP) number: 3 12 or General Permit (GP) number:		
1c. Has the NWP or GP number been verified by the Corps?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
1d. Type(s) of approval sought from the DWQ (check all that apply):		
<input checked="" type="checkbox"/> 401 Water Quality Certification – Regular <input type="checkbox"/> Non-404 Jurisdictional General Permit <input type="checkbox"/> 401 Water Quality Certification – Express <input checked="" type="checkbox"/> Riparian Buffer Authorization		
1e. Is this notification solely for the record because written approval is not required?	For the record only for DWQ 401 Certification: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	For the record only for Corps Permit: <input checked="" type="checkbox"/> Yes <input 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 checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
1h. Is the project located within a NC DCM Area of Environmental Concern (AEC)?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No

2. Project Information

2a. Name of project:	Replacement of Bridge 54 over St. Clair Creek on NC 99
2b. County:	Beaufort
2c. Nearest municipality / town:	Bath
2d. Subdivision name:	<i>not applicable</i>
2e. NCDOT only, T.I.P. or state project no.:	B-4418

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) 707-6156
3g. Fax no.:	(919) 250-4224
3h. Email address:	tstanton@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: 35.44354 (DD.DDDDDD) Longitude: - 76.72022 (-DD.DDDDDD)
1c. Property size:	1.4 acres
2. Surface Waters	
2a. Name of nearest body of water (stream, river, etc.) to proposed project:	St. Clair Creek
2b. Water Quality Classification of nearest receiving water:	C; Sw; SC; NSW
2c. River basin:	Tar Pamlico
3. Project Description	
3a. Describe the existing conditions on the site and the general land use in the vicinity of the project at the time of this application: Existing conditions at the site include maintained / disturbed roadside shoulder and agriculture in addition to forested wetlands. Land use in the project vicinity is predominantly agriculture with some residential properties.	
3b. List the total estimated acreage of all existing wetlands on the property: 0.4	
3c. List the total estimated linear feet of all existing streams (intermittent and perennial) on the property: 145	
3d. Explain the purpose of the proposed project: To replace a structurally deficient bridge.	
3e. Describe the overall project in detail, including the type of equipment to be used: The project involves replacing a 69-foot bridge with a 115-foot, 3-span bridge on the existing alignment with an off-site detour. Standard road building equipment, such as trucks, dozers, and cranes will be used. Overhead powerline utility will be relocated away from bridge; telephone line will be relocated via trenchless method (directional bore); water line will be relocated via open-trench in uplands and trenchless (directional bore) method in Waters of the U.S.	
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: USACE, NCDOT conducted on-site jurisdictional determination visit 17 Sept 2008 but no tear-sheet or USACE action ID issued. On 11 July 2011, NCDOT conducted follow-up on-site investigation and determined CAMA/404 wetland in SE quad altered due to fill and possible mechanized clearing conducted by unknown entity.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown
4b. If the Corps made the jurisdictional determination, what type of determination was made?	<input checked="" type="checkbox"/> Preliminary <input type="checkbox"/> Final
4c. If yes, who delineated the jurisdictional areas? Name (if known): David Bailey	Agency/Consultant Company: NCDOT Other:
4d. If yes, list the dates of the Corps jurisdictional determinations or State determinations and attach documentation. September 22, 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 checked="" type="checkbox"/> Wetlands		<input type="checkbox"/> Streams - tributaries		<input checked="" 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)	
Site 1 <input checked="" type="checkbox"/> P <input type="checkbox"/> T	Fill, Excavation	Coastal	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input checked="" type="checkbox"/> Corps <input type="checkbox"/> DWQ	0.01	
Site 2 <input checked="" type="checkbox"/> P <input type="checkbox"/> T	Fill, Excavation	Coastal	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input checked="" type="checkbox"/> Corps <input type="checkbox"/> DWQ	0.01	
Site A4 <input type="checkbox"/> P <input checked="" type="checkbox"/> T	Fill	Coastal	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input checked="" type="checkbox"/> Corps <input type="checkbox"/> DWQ	<0.01	
Site A5 <input checked="" type="checkbox"/> P <input type="checkbox"/> T	Excavation	Coastal	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input checked="" type="checkbox"/> Corps <input type="checkbox"/> DWQ	<0.01	
Site A6 <input checked="" type="checkbox"/> P <input type="checkbox"/> T	Fill	Coastal	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input checked="" type="checkbox"/> Corps <input type="checkbox"/> DWQ	<0.01	
Site 6 <input type="checkbox"/> P <input type="checkbox"/> T			<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Corps <input type="checkbox"/> DWQ		
2g. Total wetland impacts					0.02 Permanent 0.00 Temporary	
2h. Comments: Site 1 and 2 capture impacts due to roadway and bridge facility, Sites A4 and A5 capture impacts due to water line (utility) relocation work, Site A6 captures impacts associated with power-pole (utility) relocation. Due to rounding, there will be 0.02 ac of impacts to CAMA wetlands; there are no permanent impact to 404 wetlands. Additionally, there will be 0.13 ac of hand clearing (0.10 in CAMA wetland and 0.03 in 404). There will also be 0.02 acres of temporary fill in CAMA wetlands in the hand clearing areas and <0.01 acres of temporary fill in 404 wetlands in the hand clearing areas for erosion control measures.						
3. Stream Impacts						
If there are perennial or intermittent stream impacts (including temporary impacts) proposed on the site, then complete this question for all stream sites impacted.						
3a. Stream impact number - Permanent (P) or Temporary (T)	3b. Type of impact	3c. Stream name	3d. Perennial (PER) or intermittent (INT)?	3e. Type of jurisdiction (Corps - 404, 10 DWQ – non-404, other)	3f. Average stream width (feet)	3g. Impact length (linear feet)
Site 1 <input type="checkbox"/> P <input type="checkbox"/> T			<input type="checkbox"/> PER <input type="checkbox"/> INT	<input type="checkbox"/> Corps <input type="checkbox"/> DWQ		
Site 2 <input type="checkbox"/> P <input type="checkbox"/> T			<input type="checkbox"/> PER <input type="checkbox"/> INT	<input type="checkbox"/> Corps <input type="checkbox"/> DWQ		
Site 3 <input type="checkbox"/> P <input type="checkbox"/> T			<input type="checkbox"/> PER <input type="checkbox"/> INT	<input type="checkbox"/> Corps <input type="checkbox"/> DWQ		
Site 4 <input type="checkbox"/> P <input type="checkbox"/> T			<input type="checkbox"/> PER <input type="checkbox"/> INT	<input type="checkbox"/> Corps <input type="checkbox"/> DWQ		
3h. Total stream and tributary impacts						X Perm X Temp
3i. Comments:						

4. Open Water Impacts

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

4a. Open water impact number – Permanent (P) or Temporary (T)	4b. Name of waterbody (if applicable)	4c. Type of impact	4d. Waterbody type	4e. Area of impact (acres)
O1 <input type="checkbox"/> P <input type="checkbox"/> T				
O2 <input type="checkbox"/> P <input type="checkbox"/> T				
O3 <input type="checkbox"/> P <input type="checkbox"/> T				
O4 <input type="checkbox"/> P <input type="checkbox"/> T				
4f. Total open water impacts				X Permanent X Temporary

4g. Comments: Impacts due to piers are approximately 45 sq. ft.

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 checked="" type="checkbox"/> Tar-Pamlico <input type="checkbox"/> Other: <input type="checkbox"/> Catawba <input type="checkbox"/> Randleman			
6b. Buffer impact number – Permanent (P) or Temporary (T)	6c. Reason for impact	6d. Stream name	6e. Buffer mitigation required?	6f. Zone 1 impact (square feet)	6g. Zone 2 impact (square feet)
B1 <input checked="" type="checkbox"/> P <input type="checkbox"/> T	Roadway Fill, Hand Clearing	St. Clair Creek	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	1,475	1,104
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				1,475	1,104
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. <p>The proposed bridge is 46 feet longer than the existing bridge; the proposed bridge will be at approximately the same grade as the existing structure; an off site detour will be used, 3:1 fill slopes where practicable. Deck drains are limited to overbank area under bridge with no direct discharge into creek. Removal of existing road fill for longer bridge and increasing bridge opening will improve hydrological conveyance and wildlife passage, and reduce bridge opening velocities. Stream-side areas will be graded such that elevations match natural/undeveloped floodplain in project vicinity. Promotion of sheet flow and infiltration over grassed shoulders. Reduction of stormwater control measure impacts in wetlands to one pipe outlet with rip rap energy dissipator pad. Elimination of two alternative designs (both on-site detours) which would have caused greater impacts to jurisdictional resources. Design Standards in Sensitive Watersheds will be implemented.</p>		
1b. Specifically describe measures taken to avoid or minimize the proposed impacts through construction techniques. <p>Top-down construction; crane will remove existing bents; phone utility will use trenchless method (directional bore) to move facility outside wetland and under St. Clair Creek; minimize open trench excavation for water utility by directionally boring where practicable. Adherence to an in-water work moratorium for anadromous fish from Feb. 15 to June 15.</p>		
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:	
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:	linear feet	
4c. If using stream mitigation, stream temperature:	<input type="checkbox"/> warm <input type="checkbox"/> cool <input type="checkbox"/> cold	
4d. Buffer mitigation requested (DWQ only):	square feet	
4e. Riparian wetland mitigation requested:	acres	
4f. Non-riparian wetland mitigation requested:	acres	
4g. Coastal (tidal) wetland mitigation requested:	acres	
4h. Comments:		
5. Complete if Using a Permittee Responsible Mitigation Plan		
5a. If using a permittee responsible mitigation plan, provide a description of the proposed mitigation plan.		

6. Buffer Mitigation (State Regulated Riparian Buffer Rules) – required by DWQ					
6a. Will the project result in an impact within a protected riparian buffer that requires buffer mitigation?				<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
6b. If yes, then identify the square feet of impact to each zone of the riparian buffer that requires mitigation. Calculate the amount of mitigation required.					
Zone	6c. Reason for impact	6d. Total impact (square feet)	Multiplier	6e. Required mitigation (square feet)	
Zone 1			3 (2 for Catawba)		
Zone 2			1.5		
			6f. Total buffer mitigation required:		
6g. If buffer mitigation is required, discuss what type of mitigation is proposed (e.g., payment to private mitigation bank, permittee responsible riparian buffer restoration, payment into an approved in-lieu fee fund).					
6h. Comments:					

E. Stormwater Management and Diffuse Flow Plan (required by DWQ)	
1. Diffuse Flow Plan	
1a. Does the project include or is it adjacent to protected riparian buffers identified within one of the NC Riparian Buffer Protection Rules?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
1b. If yes, then is a diffuse flow plan included? If not, explain why. Comments: See attached buffer permit drawings.	<input type="checkbox"/> Yes <input type="checkbox"/> No
2. Stormwater Management Plan	
2a. What is the overall percent imperviousness of this project?	N/A
2b. Does this project require a Stormwater Management Plan?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
2c. If this project DOES NOT require a Stormwater Management Plan, explain why:	
2d. If this project DOES require a Stormwater Management Plan, then provide a brief, narrative description of the plan: See attached permit drawings and stormwater management plan.	
2e. Who will be responsible for the review of the Stormwater Management Plan?	<input type="checkbox"/> Certified Local Government <input type="checkbox"/> DWQ Stormwater Program <input checked="" type="checkbox"/> DWQ 401 Unit
3. Certified Local Government Stormwater Review	
3a. In which local government's jurisdiction is this project?	not applicable
3b. Which of the following locally-implemented stormwater management programs apply (check all that apply):	<input type="checkbox"/> Phase II <input type="checkbox"/> NSW <input type="checkbox"/> USMP <input type="checkbox"/> Water Supply Watershed <input type="checkbox"/> Other:
3c. Has the approved Stormwater Management Plan with proof of approval been attached?	<input type="checkbox"/> Yes <input type="checkbox"/> No
4. DWQ Stormwater Program Review	
4a. Which of the following state-implemented stormwater management programs apply (check all that apply):	<input checked="" type="checkbox"/> Coastal counties <input type="checkbox"/> HQW <input type="checkbox"/> ORW <input type="checkbox"/> Session Law 2006-246 <input type="checkbox"/> Other:
4b. Has the approved Stormwater Management Plan with proof of approval been attached?	<input 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?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
5b. Have you checked with the USFWS concerning Endangered Species Act impacts?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
5c. If yes, indicate the USFWS Field Office you have contacted.	<input type="checkbox"/> Raleigh <input type="checkbox"/> Asheville	
5d. What data sources did you use to determine whether your site would impact Endangered Species or Designated Critical Habitat? NCNHP, USFWS website, field surveys		
6. Essential Fish Habitat (Corps Requirement)		
6a. Will this project occur in or near an area designated as essential fish habitat?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
6b. What data sources did you use to determine whether your site would impact Essential Fish Habitat? NMFS County Index		
7. Historic or Prehistoric Cultural Resources (Corps Requirement)		
7a. Will this project occur in or near an area that the state, federal or tribal governments have designated as having historic or cultural preservation status (e.g., National Historic Trust designation or properties significant in North Carolina history and archaeology)?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
7b. What data sources did you use to determine whether your site would impact historic or archeological resources? NEPA Documentation		
8. Flood Zone Designation (Corps Requirement)		
8a. Will this project occur in a FEMA-designated 100-year floodplain?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
8b. If yes, explain how project meets FEMA requirements: NCDOT Hydraulics Unit coordination with FEMA		
8c. What source(s) did you use to make the floodplain determination? FEMA Maps		
<u>Dr. Gregory J. Thorpe, Ph D</u> Applicant/Agent's Printed Name	 Applicant/Agent's Signature <small>(Agent's signature is valid only if an authorization letter from the applicant is provided.)</small>	1.13.12 Date

APPLICATION for Major Development Permit



(last revised 12/27/06)

North Carolina DIVISION OF COASTAL MANAGEMENT

1. Primary Applicant/ Landowner Information			
Business Name North Carolina Department Of Transportation		Project Name (if applicable) B-4418 (38359.1.1)	
Applicant 1: First Name Gregory	MI	Last Name Thorpe	
Applicant 2: First Name	MI	Last Name	
<i>If additional applicants, please attach an additional page(s) with names listed.</i>			
Mailing Address 1598 Mail Service Center		PO Box	City Raleigh
			State NC
ZIP 27699 1598	Country USA	Phone No. 919 - 707 - 6000 ext.	FAX No. 919 - 250 - 4224
Street Address (if different from above) 1000 Birch Ridge Drive		City Raleigh	State NC
			ZIP 27610-
Email gthorpe@ncdot.gov			

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

<Form continues on back>

3. Project Location				
County (can be multiple) Beaufort	Street Address		State Rd. # NC 99	
Subdivision Name N/A	City Project not within a municipal boundary.		State NC	Zip 27808 -
Phone No. N/A - - ext.		Lot No.(s) (if many, attach additional page with list) N/A, , ,		
a. In which NC river basin is the project located? Tar-Pamlico		b. Name of body of water nearest to proposed project St. Clair's Creek		
c. Is the water body identified in (b) above, natural or manmade? <input checked="" type="checkbox"/> Natural <input type="checkbox"/> Manmade <input type="checkbox"/> Unknown		d. Name the closest major water body to the proposed project site. Pamlico River		
e. Is proposed work within city limits or planning jurisdiction? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		f. If applicable, list the planning jurisdiction or city limit the proposed work falls within. N/A		

4. Site Description	
a. Total length of shoreline on the tract (ft.) approx. 200'	b. Size of entire tract (sq.ft.) approx. 65,575 sq. ft.
c. Size of individual lot(s) N/A, (if many lot sizes, please attach additional page with a list)	d. Approximate elevation of tract above NHW (normal high water) or NWL (normal water level) 4 <input type="checkbox"/> NHW or <input checked="" type="checkbox"/> NWL
e. Vegetation on tract Wetland (forested, coastal, non-forested), grass (NC 99 shoulders and residential yard), agricultural field	
f. Man-made features and uses now on tract Existing NC 99 road facility	
g. Identify and describe the existing land uses adjacent to the proposed project site. Existing NC 99 road facility; Residence	
h. How does local government zone the tract? Per Beaufort Co. website, zoning not noted; Land Use = "U"	i. Is the proposed project consistent with the applicable zoning? (Attach zoning compliance certificate, if applicable) <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> NA
j. Is the proposed activity part of an urban waterfront redevelopment proposal? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
k. Has a professional archaeological assessment been done for the tract? If yes, attach a copy. <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA If yes, by whom? NC Dept. of Cultural Resources - State Historic Preservation Office; documentation included in CE.	
l. Is the proposed project located in a National Registered Historic District or does it involve a National Register listed or eligible property? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> NA	

<Form continues on next page>

m. (i) Are there wetlands on the site?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
(ii) Are there coastal wetlands on the site?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
(iii) If yes to either (i) or (ii) above, has a delineation been conducted? <i>(Attach documentation, if available)</i>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
n. Describe existing wastewater treatment facilities. None	
o. Describe existing drinking water supply source. None	
p. Describe existing storm water management or treatment systems. None	

5. Activities and Impacts

a. Will the project be for commercial, public, or private use?	<input type="checkbox"/> Commercial <input checked="" type="checkbox"/> Public/Government <input type="checkbox"/> Private/Community
b. Give a brief description of purpose, use, and daily operations of the project when complete. Replace existing bridge due to low sufficiency rating. Lengthen bridge and improve road facility and safety with widening and addition of guardrail.	
c. Describe the proposed construction methodology, types of construction equipment to be used during construction, the number of each type of equipment and where it is to be stored. Propose top/down construction with no temporary causeway(s). Typical construction equipment includes crane, bulldozer, dump trucks, motor grader, etc.	
d. List all development activities you propose. Replace/Lengthen bridge; Remove portion of existing road fill/causeway to improve bridge hydraulic conveyance and offset surface water being filled in. Addition of fill due to widening facility and raising of the existing road grade. The grade has to be raised to provide access for future bridge maintenance inspection activities. Overhead powerline utility will be relocated away from bridge; telephone line will be relocated via trenchless method (directional bore); water line will be relocated via open-trench and trenchless (directional bore) trenchless method.	
e. Are the proposed activities maintenance of an existing project, new work, or both?	Both
f. What is the approximate total disturbed land area resulting from the proposed project?	1.4 <input type="checkbox"/> Sq.Ft or <input checked="" type="checkbox"/> Acres
g. Will the proposed project encroach on any public easement, public accessway or other area that the public has established use of?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA
h. Describe location and type of existing and proposed discharges to waters of the state. Existing bridge has deck drains with direct discharge into St. Claire's Creek. Proposed bridge will have deck drains in overbank only with no direct discharge into St. Claire's Creek.	
i. Will wastewater or stormwater be discharged into a wetland?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA
If yes, will this discharged water be of the same salinity as the receiving water?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA
j. Is there any mitigation proposed?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA
If yes, attach a mitigation proposal.	

<Form continues on back>

6. Additional Information

In addition to this completed application form, (MP-1) the following items below, if applicable, must be submitted in order for the application package to be complete. Items (a) – (f) are always applicable to any major development application. Please consult the application instruction booklet on how to properly prepare the required items below.

a. A project narrative.
b. An accurate, dated work plat (including plan view and cross-sectional drawings) drawn to scale. Please give the present status of the proposed project. Is any portion already complete? If previously authorized work, clearly indicate on maps, plats, drawings to distinguish between work completed and proposed.
c. A site or location map that is sufficiently detailed to guide agency personnel unfamiliar with the area to the site.
d. A copy of the deed (with state application only) or other instrument under which the applicant claims title to the affected properties.
e. The appropriate application fee. Check or money order made payable to DENR.
f. A list of the names and complete addresses of the adjacent waterfront (riparian) landowners and signed return receipts as proof that such owners have received a copy of the application and plats by certified mail. Such landowners must be advised that they have 30 days in which to submit comments on the proposed project to the Division of Coastal Management. Name See Attached List Phone No. Address Name Phone No. Address Name Phone No. Address
g. A list of previous state or federal permits issued for work on the project tract. Include permit numbers, permittee, and issuing dates. None
h. Signed consultant or agent authorization form, if applicable.
i. Wetland delineation, if necessary.
j. A signed AEC hazard notice for projects in oceanfront and inlet areas. <i>(Must be signed by property owner)</i>
k. A statement of compliance with the N.C. Environmental Policy Act (N.C.G.S. 113A 1-10), if necessary. If the project involves expenditure of public funds or use of public lands, attach a statement documenting compliance with the North Carolina Environmental Policy Act.

7. Certification and Permission to Enter on Land

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

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

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

Date 1-13-12

Print Name Gregory J. Thayer, PhD

Signature E. J. Finkle for

Please indicate application attachments pertaining to your proposed project.

DCM MP-2 Excavation and Fill Information

DCM MP-5 Bridges and Culverts

DCM MP-3 Upland Development

DCM MP-4 Structures Information



STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION

BEVERLY EAVES PERDUE
GOVERNOR

EUGENE A. CONTI, JR.
SECRETARY

January 13, 2012

George D. Ross, Jr.
10134 HWY NC 99 South
Bath, NC 27808

Dear Landowner:

The North Carolina Department of Transportation is planning to replace bridge number 54 on NC 99 over St. Clair Creek. The proposed project will replace the aging existing structure over St. Clair Creek. The project will replace the existing 69-foot bridge with a 115-foot bridge. The additional length will allow for the replacement of a substandard structure as well as improve the existing floodplain. This project crosses an Area of Environmental Concern, as defined by the North Carolina Division of Coastal Management (DCM), and must be approved by the DCM under provisions of the Coastal Area Management Act (CAMA). One of the prerequisites to this approval is that adjacent riparian landowners be given an opportunity to comment on the proposal. A permit application, vicinity map and site drawings are enclosed for your review.

The attached form is submitted to ensure that you have an opportunity to comment on the proposal. The work planned is depicted in the attached drawing. If you have no objections to the proposal, please return the form with your response within 10 days to this office. If you do have objections to the project, please forward your comments to:

Mr. Stephen Lane
N.C. Division of Coastal Management
400 Commerce Ave.
Morehead City, NC 28557

Thank you for your cooperation.

Sincerely,

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

Enclosures

cc: Stephen Lane, NCDCM
File – B-4418

ADJACENT RIPARIAN LANDOWNER STATEMENT
(Beaufort County: Replace Bridge No. 54 over St. Clair Creek)
NCDOT TIP B-4418

General Statutes and Division of Coastal Management Major Development Permit approval procedures require that riparian landowners with property adjoining a proposed development in an Area of Environmental Concern (AEC) be given ten (10) days in which to comment on the proposed development. This form allows the adjacent riparian landowner to express either: (1) that he objects to the project; or, (2) that he does not object and desires to waive his/her right to the 10-day period so that the processing of the application can progress more rapidly. Of course, the adjacent riparian landowner need not sign this form at all if he/she so chooses.

I, _____, am an adjacent riparian property owner and am aware of the North Carolina Department of Transportation's plans for replacing bridge number 54 over St. Clair Creek in Beaufort County, North Carolina. I am further aware that this work will occur in one or more Areas of Environmental Concern and therefore will require authorization from the Division of Coastal Management in accordance with the Coastal Area Management Act (CAMA).

_____ I have no objection to the project as presently proposed and hereby waive that right of objection as provided in General Statute 113-229

_____ I have objections to the project as presently proposed and my comments are attached

Signature of Adjacent Riparian Landowner

Date

Phone Number with Area Code

U.S. Department of
Homeland Security

United States
Coast Guard



Commander
United States Coast Guard
Fifth Coast Guard District

431 Crawford Street
Portsmouth, Va. 23704-5004
Staff Symbol: dpb
Phone: (757) 398-6422
Fax: (757) 398-6334
Email: Bill.H.Brazier@uscg.mil

16591
6 APR 09

Mr. John Williams, P.E.
North Carolina Department of Transportation
1551 Mail Service Center
Raleigh, NC 27699-1551

Dear Mr. Williams:

I apologize for our late response to your letter of December 19, 2008, requesting Advance Permit Approval for the following North Carolina Department of Transportation Bridge Replacement Projects:

- 1) B-4922, Bridge No. 23 over Knobbs Creek;
- 2) B-4787, Bridge No. 95 over Johnson's Mill Run;
- 3) B-4772, Bridge No. 326 over Mill Branch Creek;
- 4) B-4736, Bridge No. 233 over Slades Swamp;
- 5) B-4728, Bridge No. 251 over Brush Creek;
- 6) B-4710, Bridge No. 3 over Browns Creek;
- 7) B-4711, Bridge No. 5 over Horsepin Branch;
- 8) B-4591, Bridge No. 4 over Island Creek;
- 9) B-4421, Bridge No. 42 over Durham Creek;
- 10) B-4418, Bridge No. 54 over St. Clair Creek; and
- 11) B-2948, Bridge No. 78 over Little Rockfish Creek

The Coast Guard Authorization Act of 1982 exempts bridge projects from a Coast Guard bridge permit when the bridge project crosses non-tidal waters which are not used, susceptible to use in their natural condition, or susceptible to use by reasonable improvement as a means to transport interstate commerce. The information provided with the aforementioned letter indicates that these bridge projects are exempt; therefore, a Coast Guard Bridge permit will not be required for these proposed bridge replacement projects.

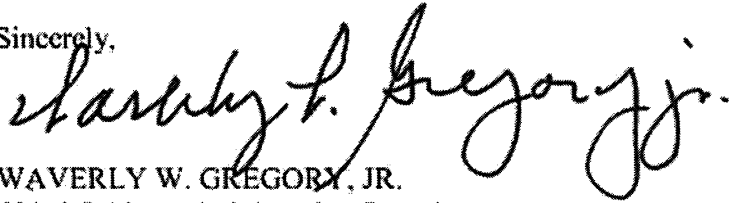
These determinations are for the location and replacement of the Abovementioned Bridge projects and are valid for five years from the date of this letter. If the construction does not commence within this time period, you must contact this office for reaffirmation of this

16591
6 APR 09

authorization. Further bridge projects along the same waterways will have to be independently evaluated before they may be considered for this determination.

The fact that a Coast Guard permit is not required does not relieve you of the responsibility for compliance with the requirements of any other Federal, State, or local agency who may have jurisdiction over any aspect of the project. Please contact Mr. Bill H. Brazier at the above address or telephone number for any further assistance.

Sincerely,



WAVERLY W. GREGORY, JR.
Chief, Bridge Administration Branch
By direction of the Commander
Fifth Coast Guard District

Copy: Coast Guard Sector North Carolina, Waterways Management

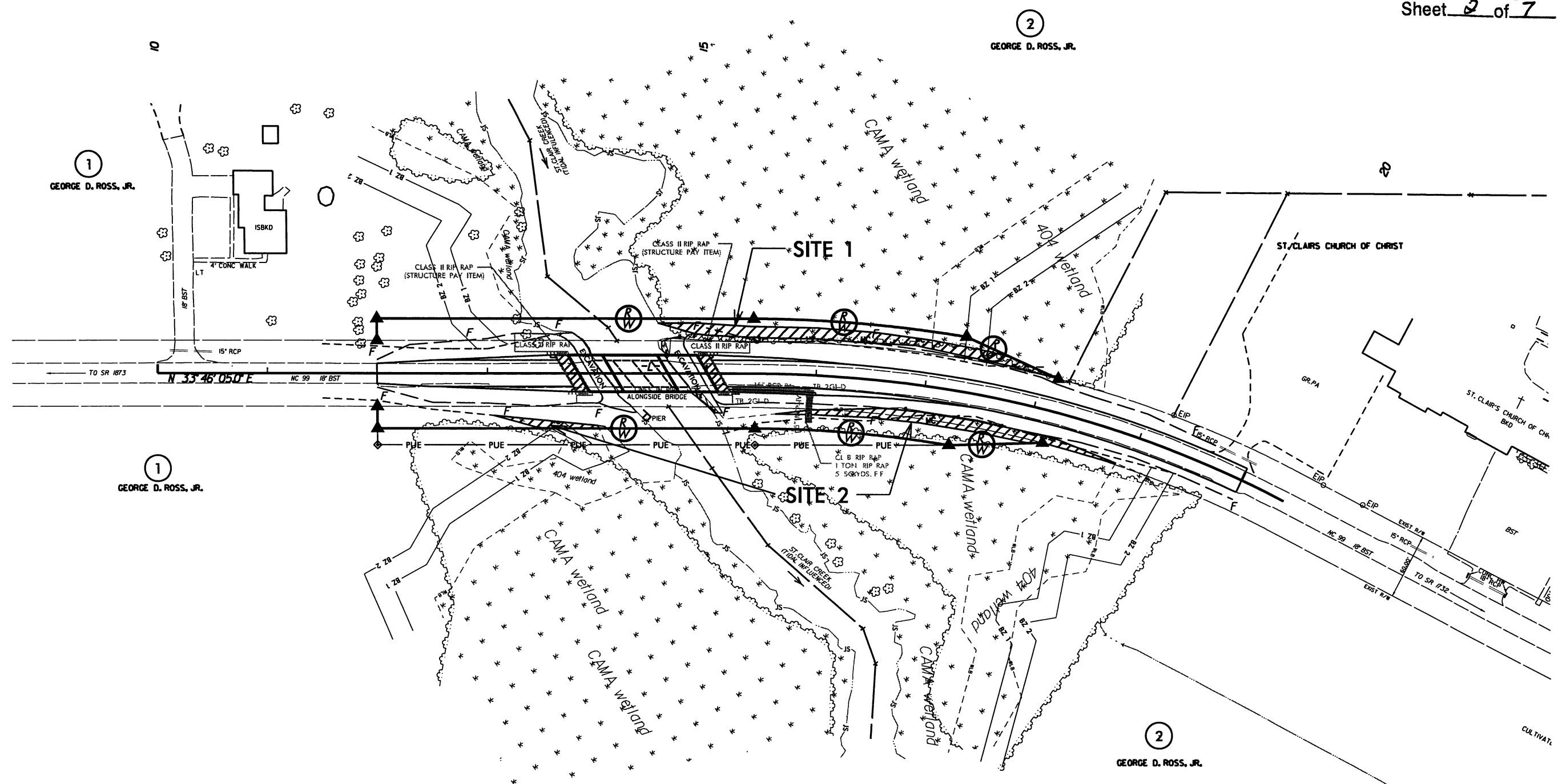
8/17/99




8/17/99 9:2012
B4418.dwg - prm - we.tdgn

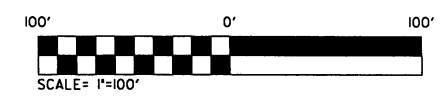
REVISIONS

PROJECT REFERENCE NO. B-4418	SHEET NO. 4
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
INCOMPLETE PLANS DO NOT USE FOR R/W ACQUISITION PRELIMINARY PLANS DO NOT USE FOR CONSTRUCTION	

Permit Drawing
Sheet 2 of 7



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



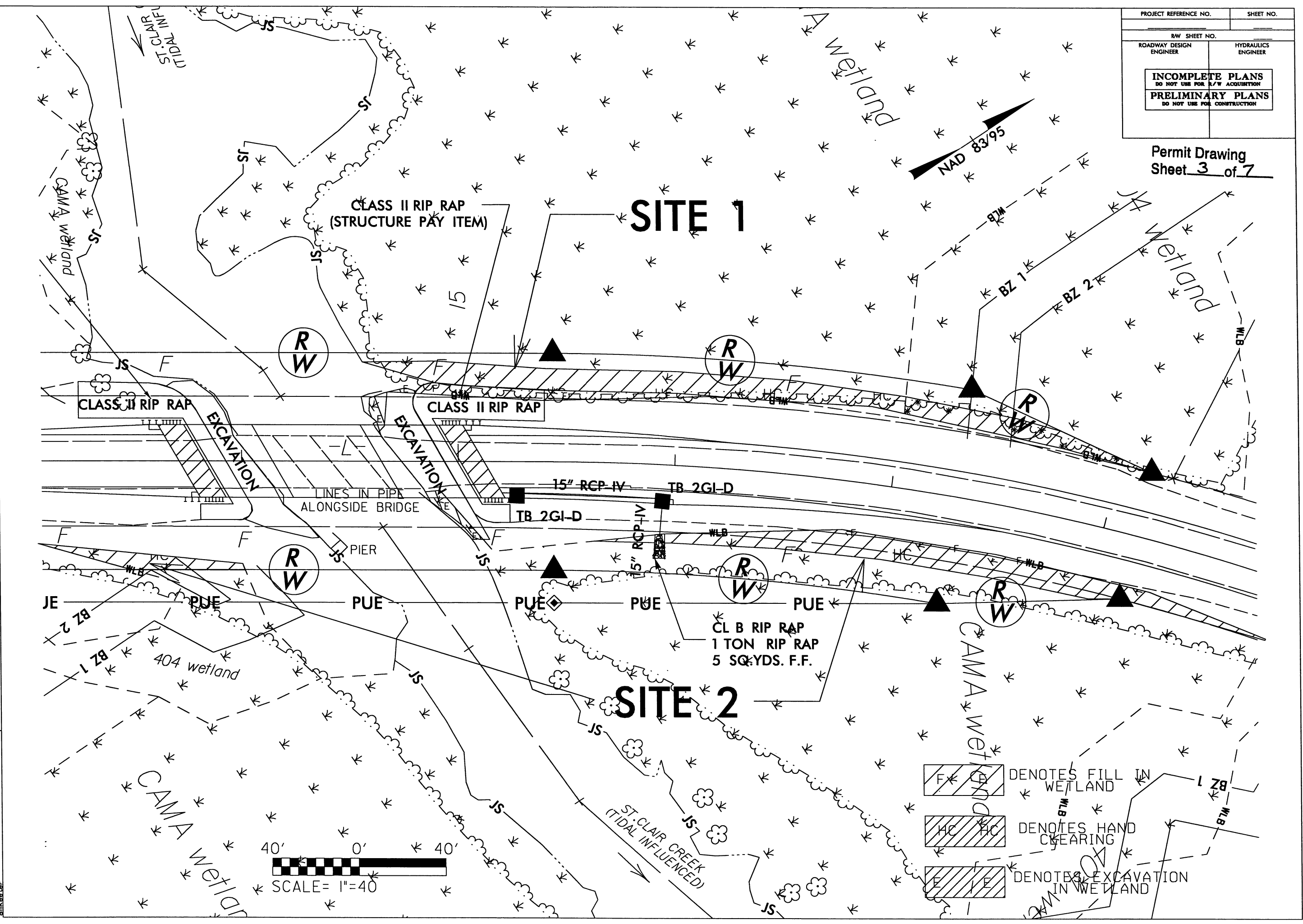
PROJECT REFERENCE NO.	SHEET NO.
RAW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
INCOMPLETE PLANS DO NOT USE FOR R/W ACQUISITION PRELIMINARY PLANS DO NOT USE FOR CONSTRUCTION	

Permit Drawing
Sheet 3 of 7

8/17/99

REVISIONS

10/11/01 9:2012
 84418_inj_d-pr.m_wet.blowup.dgn
 amkscat



5/14/99

B:\108per_10_2011
88418_hyd_p1.dgn
ambseger

PROJECT REFERENCE NO. SHEET NO.

ROADWAY DESIGN
ENGINEER

HYDRAULICS
ENGINEER

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

Permit Drawing
Sheet 4 of 7

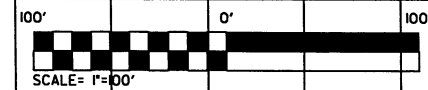
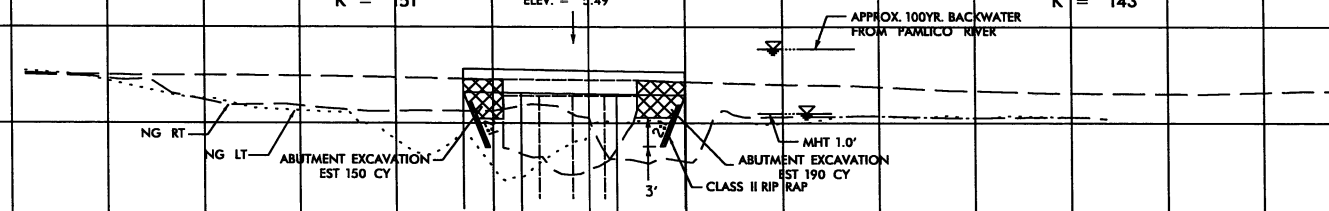
11+00 12+00 13+00 14+00 15+00 16+00 17+00 18+00

10
0
-10

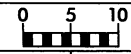
PI = 14+40.00
EL = 5.88'
VC = 190'
K = 151

C STA. 14+42 -L-
1 @ 30', 1 @ 50', 1 @ 35'
21" CORED SLAB
SKEW = 60°
ELEV. = 5.49'

PI = 17+25.00
EL = 3.15'
VC = 180'
K = 143

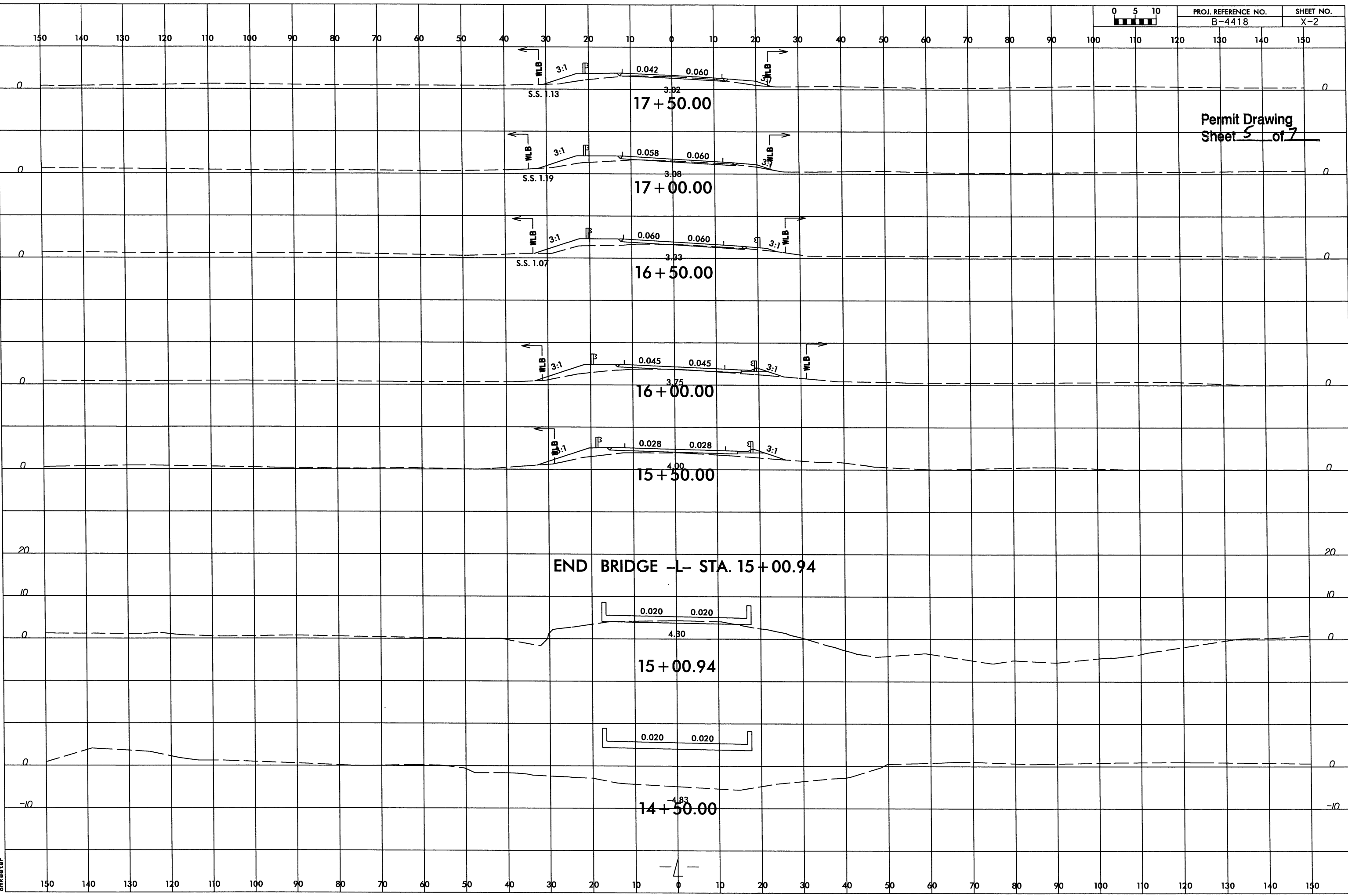


8/23/99



PROJ. REFERENCE NO.
B-4418

SHEET NO.
X-2



Permit Drawing
Sheet 5 of 7

END BRIDGE -L- STA. 15 + 00.94

October 10, 2011
B:\18\hyd\18xp1\1.dgn
amls

PROPERTY OWNERS
NAMES AND ADDRESSES

PARCEL NO.	NAMES	ADDRESSES
2	GEORGE D. ROSS, Jr.	10014 NC 99 S. BATH, NC 27808

Permit Drawing
Sheet 6 of 7

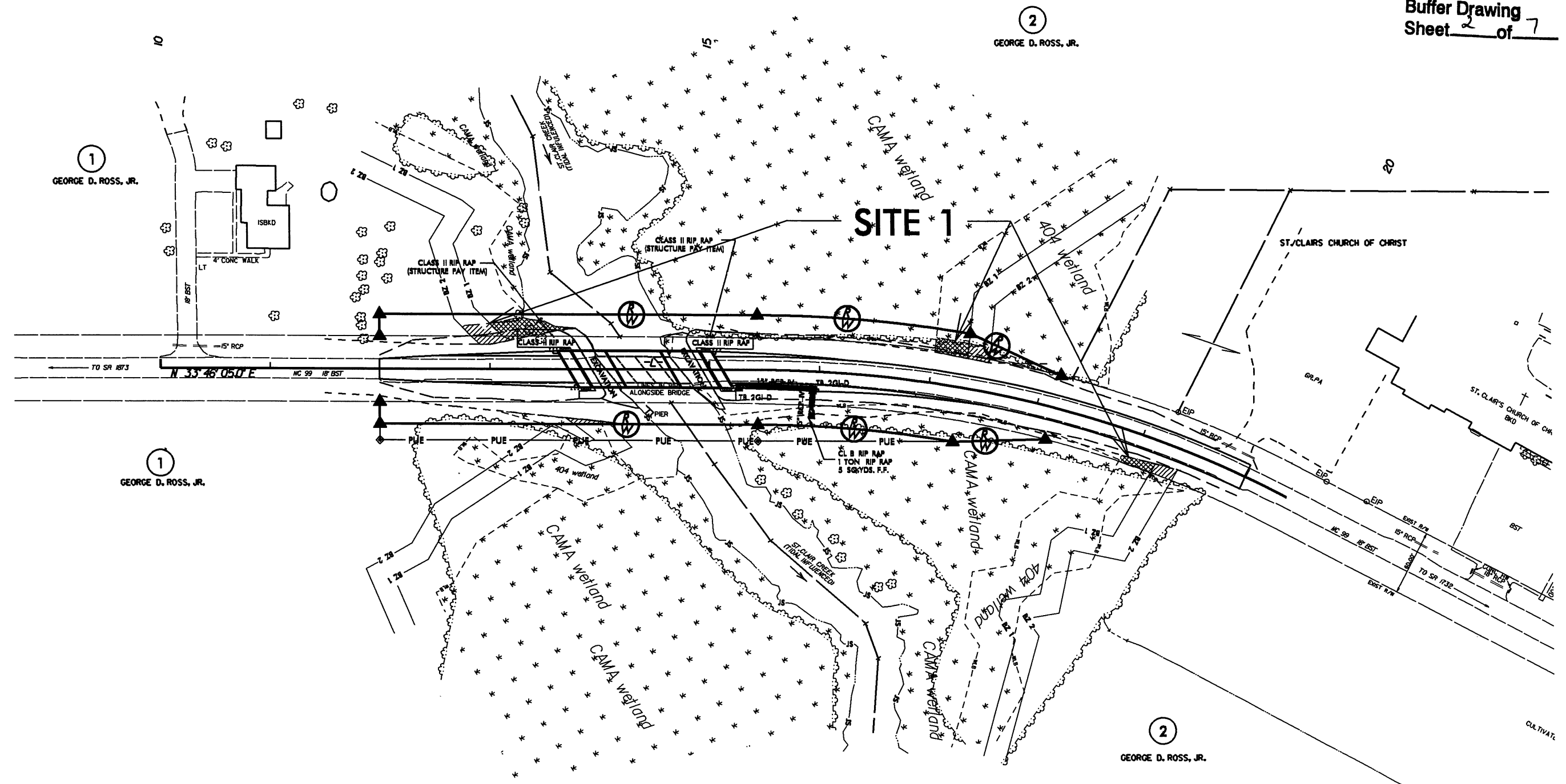
NCDOT
DIVISION OF HIGHWAYS
BEAUFORT COUNTY
PROJECT: 38359.1.1 (B-4418)
RANSOMVILLE
BRIDGE #54 OVER ST. CLAIR CREEK
ON NC 99

PROJECT REFERENCE NO. B-4418	SHEET NO. 4
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
INCOMPLETE PLANS DO NOT USE FOR R/W ACQUISITION PRELIMINARY PLANS DO NOT USE FOR CONSTRUCTION	

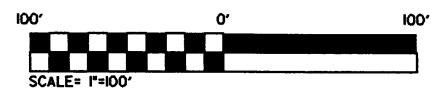


Buffer Drawing
Sheet 2 of 7

REVISIONS



- ALLOWABLE IMPACTS ZONE 1
- ALLOWABLE IMPACTS ZONE 2



8/17/99

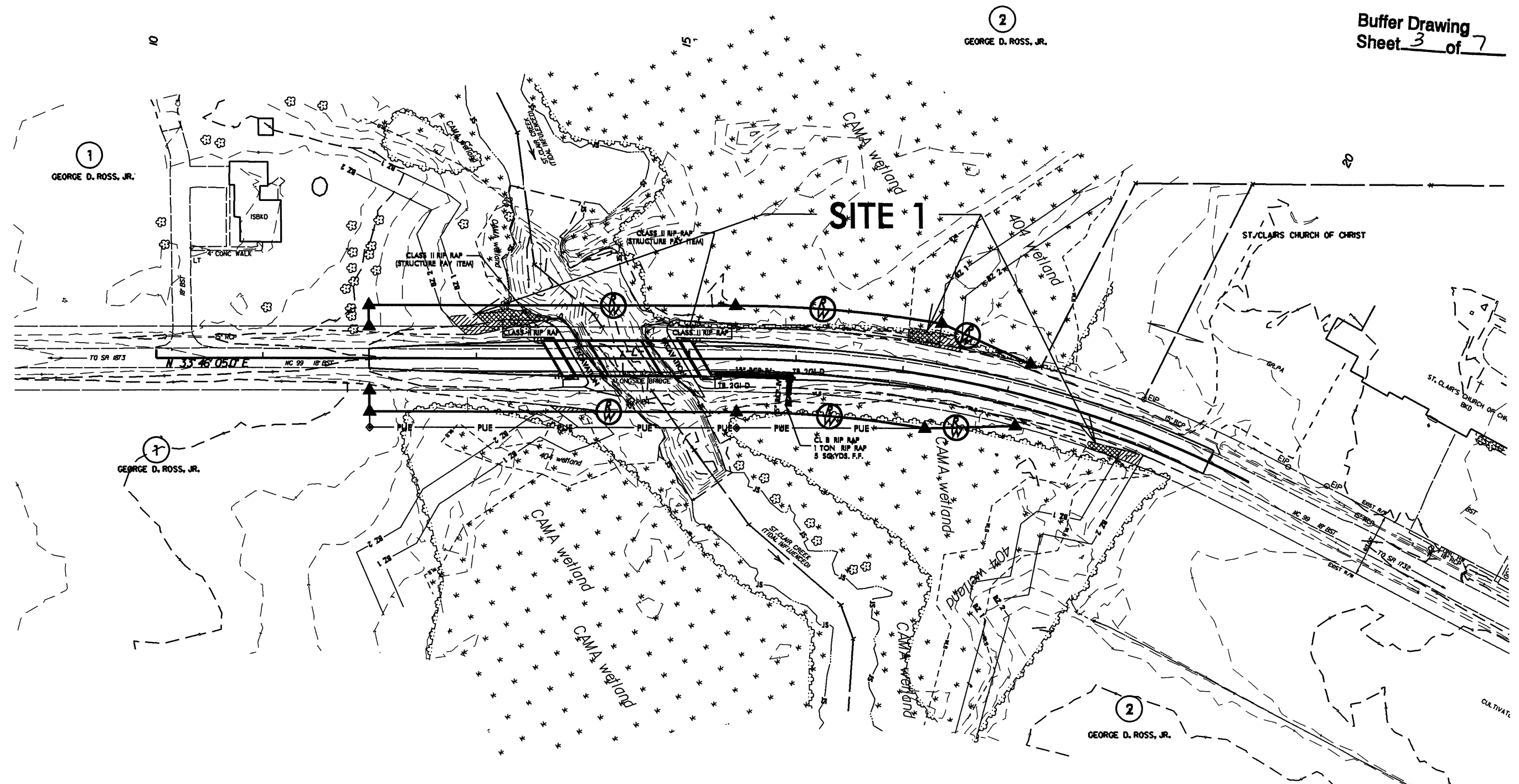
0910ber_10.2011
B4418_hyd_prm_buf.dgn

PROJECT REFERENCE NO. B-4418	SHEET NO. 4
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
INCOMPLETE PLANS DO NOT USE FOR R/W ACQUISITION PRELIMINARY PLANS DO NOT USE FOR CONSTRUCTION	

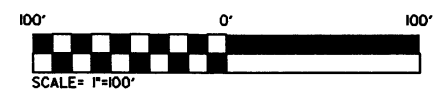


Buffer Drawing
Sheet 3 of 7

REVISIONS



- ALLOWABLE IMPACTS ZONE 1
- ALLOWABLE IMPACTS ZONE 2



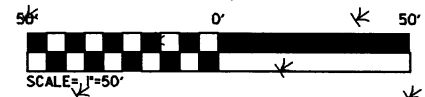
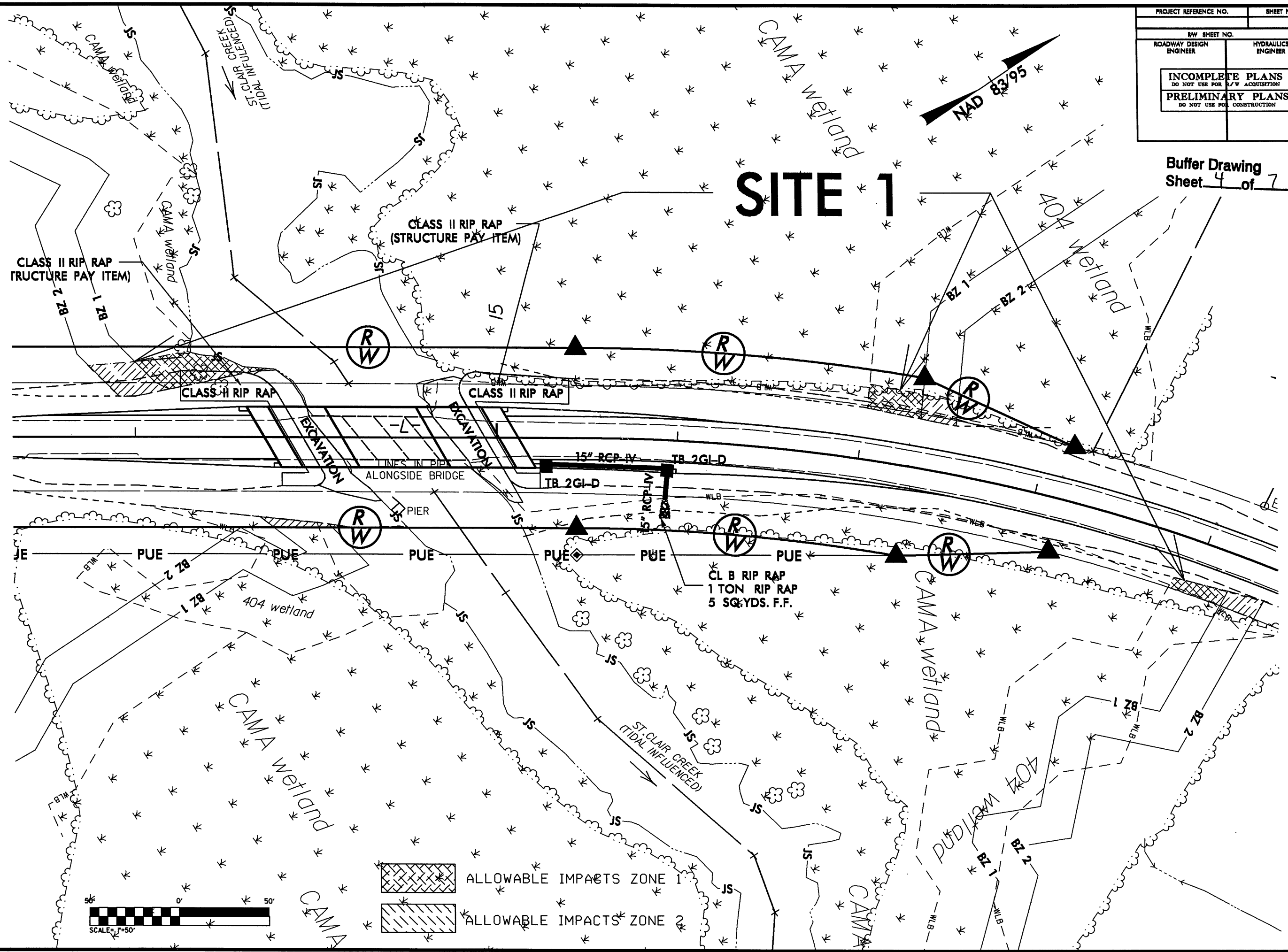
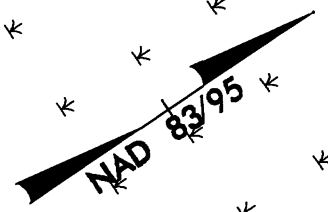
8/17/99

0910861r_10_2011
84418_Twd_prm_buf.dgn

PROJECT REFERENCE NO.	SHEET NO.
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
INCOMPLETE PLANS DO NOT USE FOR R/W ACQUISITION PRELIMINARY PLANS DO NOT USE FOR CONSTRUCTION	

Buffer Drawing Sheet 4 of 7

SITE 1



- ALLOWABLE IMPACTS ZONE 1
- ALLOWABLE IMPACTS ZONE 2

REVISIONS

8/17/99

October 10, 2011
84418_hyd_prm_buf_blowup.dgn

PROPERTY OWNERS
NAMES AND ADDRESSES

PARCEL NO.	NAMES	ADDRESSES
2	GEORGE D. ROSS, Jr.	10014 NC 99 S. BATH, NC 27808

Buffer Drawing
Sheet 5 of 7

NCDOT
DIVISION OF HIGHWAYS
BEAUFORT COUNTY
PROJECT: 38359.1.1 (B-4418)
RANSONVILLE
BRIDGE #54 OVER ST. CLAIR CREEK
ON NC 99

SHEET **OF** **8 / 31 / 11**

BUFFER IMPACTS SUMMARY

SITE NO.	STRUCTURE SIZE / TYPE	STATION (FROM/TO)	IMPACT						BUFFER REPLACEMENT				
			TYPE		ALLOWABLE		MITIGABLE		TOTAL (ft ²)	ZONE 1 (ft ²)	ZONE 2 (ft ²)		
			ROAD CROSSING	BRIDGE	PARALLEL IMPACT	ZONE 1 (ft ²)	ZONE 2 (ft ²)	TOTAL (ft ²)				ZONE 1 (ft ²)	ZONE 2 (ft ²)
1	Fill	12+74 to 13+73-L- LT.	X			790.0	491.0	1281.0					
				X		19.0		19.0					
1	Fill	17+01 to 17+52-L- LT	X			407.0	273.0	680.0					
1	Fill	18+84 to 19+37-L- RT	X			238.0	211.0	449.0					
1	Fill	13+69 to 14+50 -L- RT	X			6.0	129.0	135.0					
				X		15.0		15.0					
TOTAL:						1475.0	1104.0	2579.0					

Buffer Drawing
Sheet 6 of 7

N.C. DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS

BEAUFORT COUNTY
PROJECT: 38359.1.1 (B-4418)

10/10/2011
SHEET OF

November 2, 2011

B-4418 Beaufort County Bridge #54 St. Clair's Creek

According to the utilities information we have available:

Tideland EMC "power" has (2) poles and aerial lines along the east side of NC 99 that are in conflict with bridge construction. Tideland EMC will relocate their aerial facilities farther to the east, away from the bridge. Temporary fill in a CAMA wetland at approx. Sta.-L- 15+92 will be required for the relocation of the power pole. Contact person is Kenneth Neal at (252) 943-8507

Tri-County Telecom has facilities in conflict with bridge construction. The telephone lines will be relocated to the east side of the roadway facility. The facility will be directionally bored with no wetland impact. Contact person is Cecil F. Walker Jr. at (252) 964-9229.

Beaufort County has an 8" water line in conflict with bridge construction. This facility will be relocated to the east side of the bridge. The water line will be installed using both open-trench and trenchless (directional bore) methodologies. The water line will be directionally bored under St. Clair Creek at a minimum depth of 16'. The water line will be open-cut from approx. Sta.-L-17+01 to approx. Sta.-L-17+60 resulting in excavation of a CAMA wetland and temporary fill within a CAMA wetland. Contact person is Curtis Jett at (252) 975-0720.

See Sheet 1-A For Index of Sheets

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

BEAUFORT COUNTY

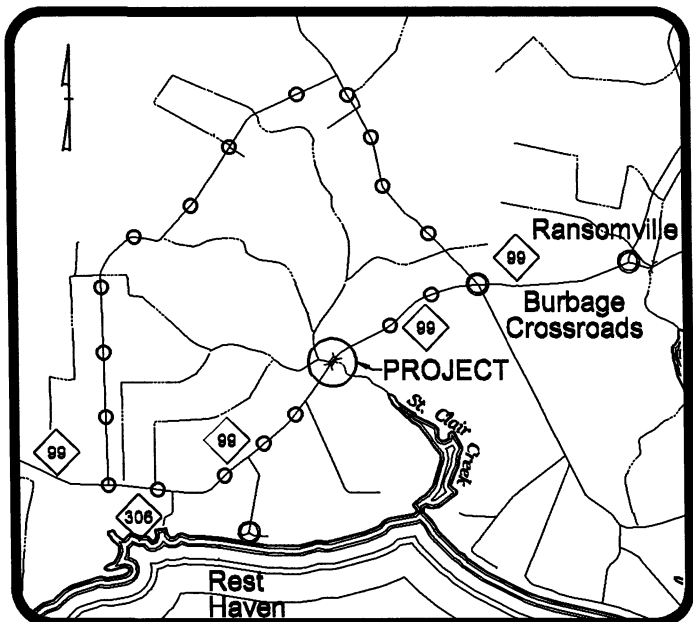
NEU PERMIT DRAWING PLANS

LOCATION: BRIDGE NO. 54 OVER ST. CLAIR CREEK ON NC 99

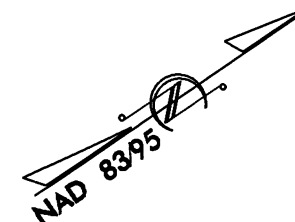
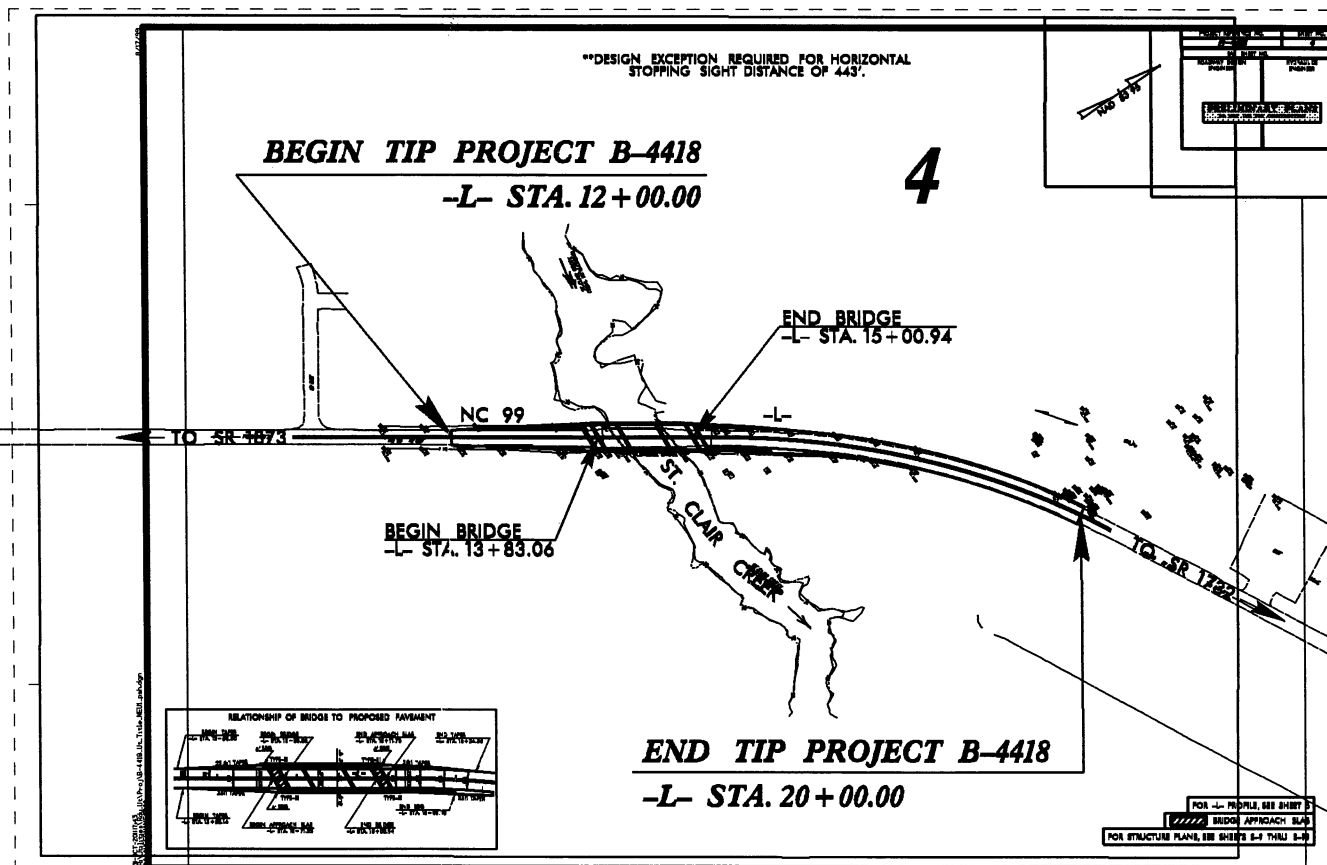
TYPE OF WORK: RELOCATE UTILITY LINES

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	B-4418	1	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	
38359.1.1	BRSTP-0099(5)	PE	

Utility Permit Drawing
Sheet 1 of 3



VICINITY MAP
○ ○ ○ ○ ○ DETOUR ROUTE

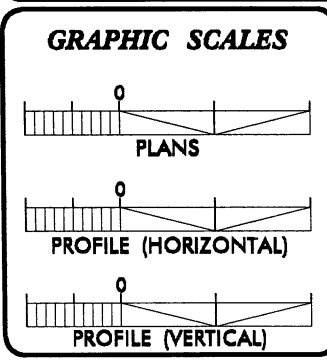


**DESIGN EXCEPTION REQUIRED FOR HORIZONTAL STOPPING SIGHT DISTANCE OF 443'.
THIS PROJECT IS NOT WITHIN ANY MUNICIPAL BOUNDARIES.
CLEARING ON THIS PROJECT SHALL BE PERFORMED TO THE LIMITS ESTABLISHED BY METHOD III.

PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION

TIP PROJECT: B-4418

CONTRACT:



DESIGN DATA

PROJECT LENGTH

LENGTH ROADWAY TIP PROJECT B-4418	=	0.130 MILES
LENGTH STRUCTURE TIP PROJECT B-4418	=	0.022 MILES
TOTAL LENGTH TIP PROJECT B-4418	=	0.152 MILES

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

2006 STANDARD SPECIFICATIONS

RIGHT OF WAY DATE: _____

LETTING DATE: _____

PROJECT ENGINEER

PROJECT DESIGN ENGINEER

HYDRAULICS ENGINEER

SIGNATURE: _____ P.E.

ROADWAY DESIGN ENGINEER

SIGNATURE: _____ P.E.

DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA

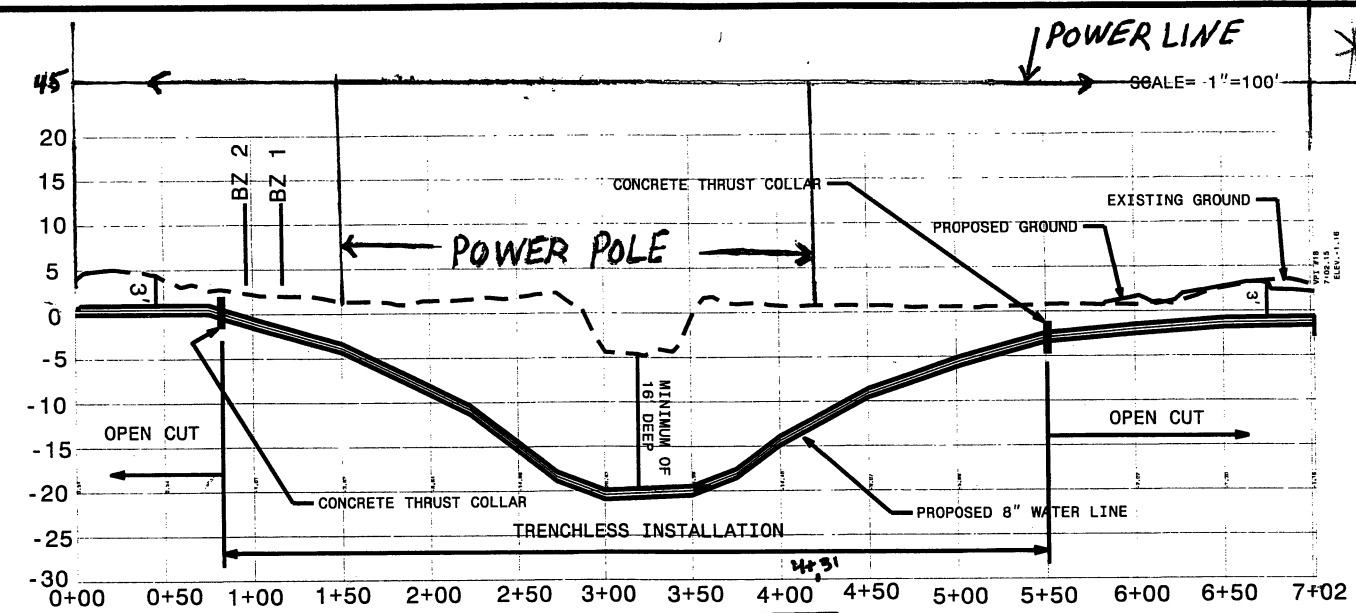
STATE HIGHWAY DESIGN ENGINEER

31-OCT-2011 7:43 R:\UH\files\rdy_ut\Pro\B-4418_Ut_Title_NEUI_psh.dgn \$\$\$USERNAME\$\$\$

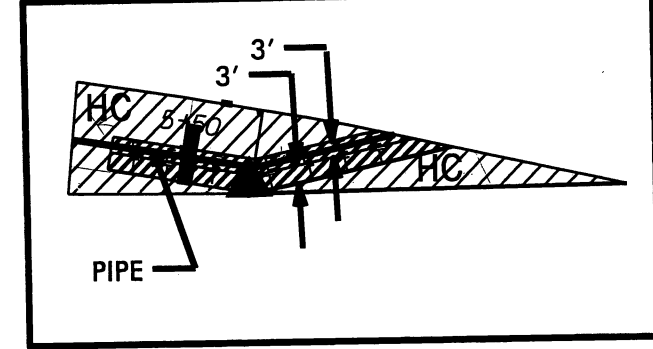
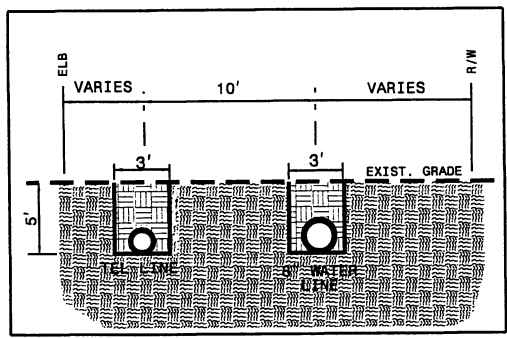
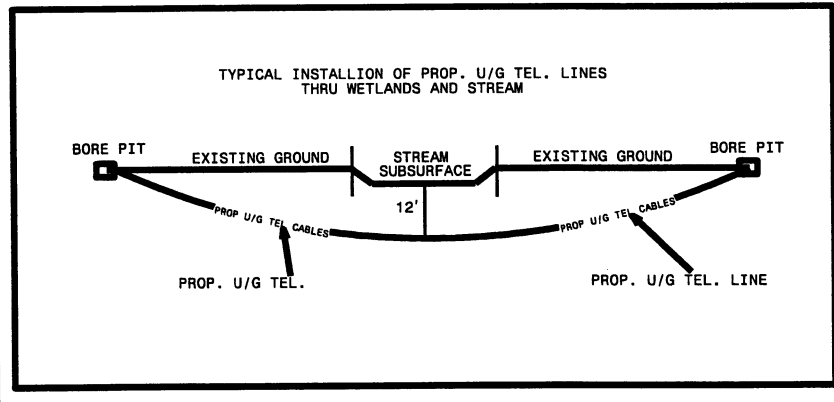
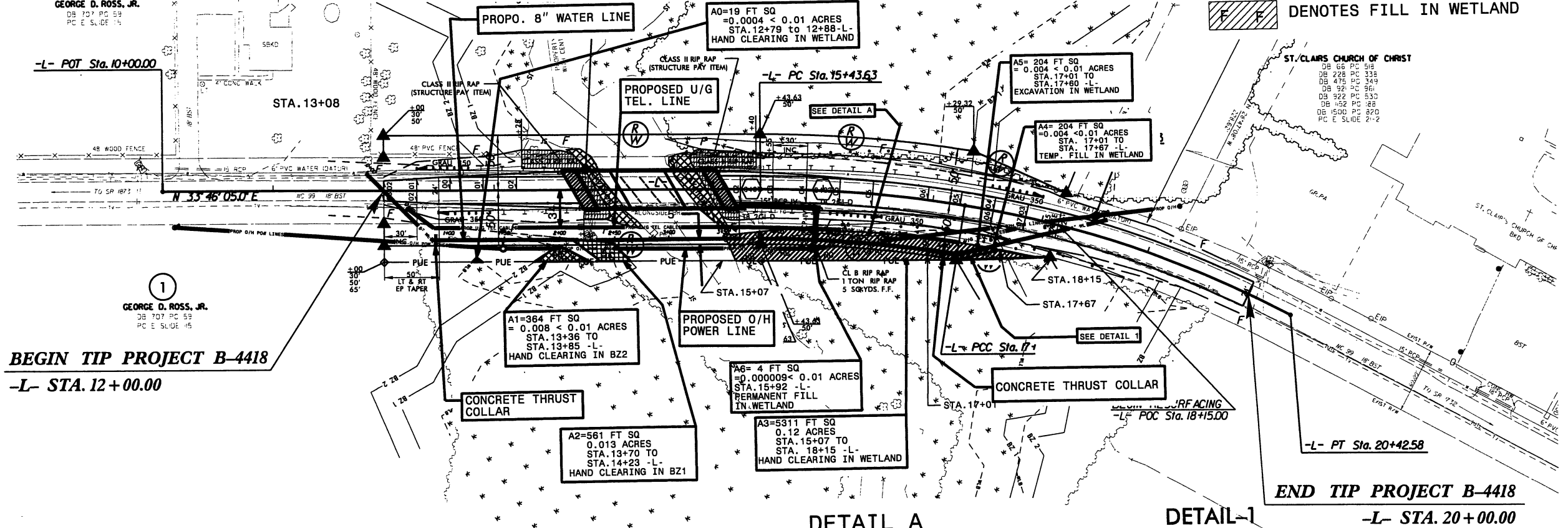
PROJECT REFERENCE NO. B-4418	SHEET NO. 4
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
INCOMPLETE PLANS DO NOT USE FOR R/W ACQUISITION PRELIMINARY PLANS DO NOT USE FOR CONSTRUCTION	

REVISIONS
 1
 GEORGE D. ROSS, JR.
 DB 707 PC 59
 PC E SLIDE 14
 STA. 10+00.00
 N 33° 46' 05" E
 1
 GEORGE D. ROSS, JR.
 DB 707 PC 59
 PC E SLIDE 15
BEGIN TIP PROJECT B-4418
 -L- STA. 12+00.00
 2
 DMR
 STATION POINTS
 ATTACHED TO NB-4418 (Lr.dwg_sht4) N.U.psh.dgn
 05/17/95

-L- CU.
 **PI Sta 16+36.70
 $\Delta = 9' 40' 18.4" (RT)$
 $D = 5' 12' 31.3"$
 $L = 185.68'$
 $T = 93.06'$
 $R = 1,000.00'$



- DENOTES 3' EXCAVATION IN WETLAND
- DENOTES 3' TEMPORARY FILL IN WETLAND
- DENOTES HAND CLEARING
- DENOTES HAND CLEARING IN BZ2
- DENOTES HAND CLEARING IN BZ1
- DENOTES FILL IN WETLAND



END TIP PROJECT B-4418
-L- STA. 20+00.00

WETLAND PERMIT IMPACT SUMMARY

Site No.	Station (From/To)	Structure Size / Type	WETLAND IMPACTS						SURFACE WATER IMPACTS									
			Permanent Fill In Wetlands (ac)	Temp. Fill In Wetlands (ac)	Excavation in Wetlands (ac)	Mechanized Clearing in Wetlands (ac)	Hand Clearing in Wetlands (ac)	Permanent SW impacts (ac)	Temp. SW impacts (ac)	Existing Channel Impacts Permanent (ft)	Existing Channel Impacts Temp. (ft)	Natural Stream Design (ft)						
A0	12+79 to 12+88-L-	O/H Power Line						<0.01										
A3	15+07 to 18+15 -L-	O/H Power Line						0.12										
A4	17+01 to 17+67 -L-	water line by open & cut		<0.01														
A5	17+01 to 17+60-L-	water line by open & cut			<0.01													
A6	15+92 -L-	Power Pole	<0.01															
TOTALS:			0.00	0.00	0.00	0.00	0.00	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

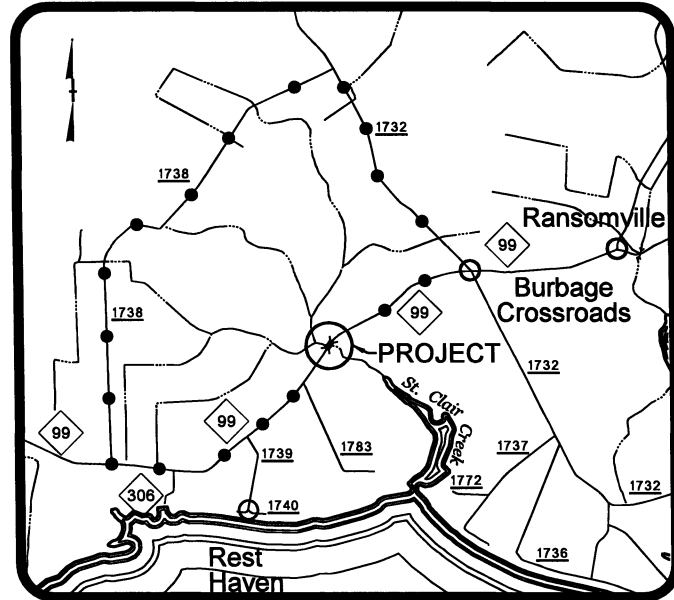
Note: A6=4 ft sq=0.000009 ac perment impact in wetland from pole installation

NC DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAYS
 BEAUFORT COUNTY
 TIP PROJECT (B-4418)

11/21/2011

09/08/09

See Sheet 1-A For Index of Sheets
See Sheet 1-B For Conventional Symbols



VICINITY MAP
- - - - - DETOUR ROUTE

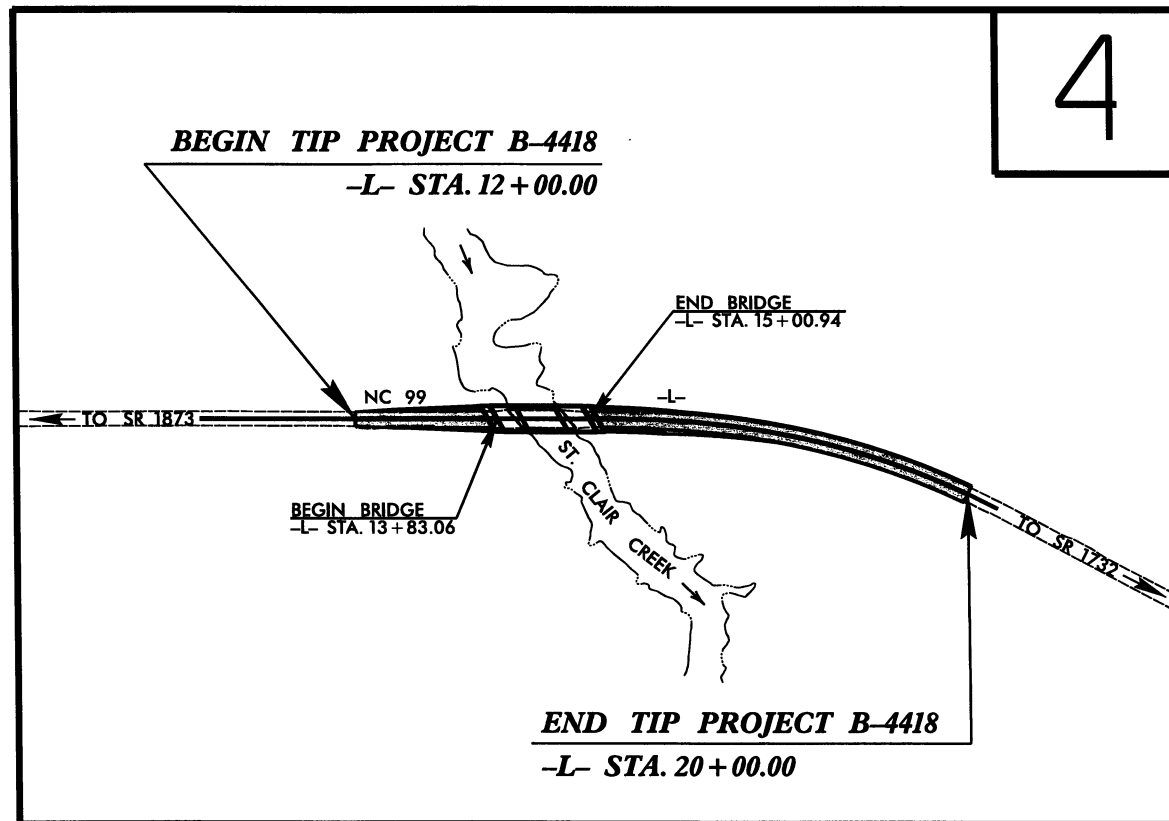
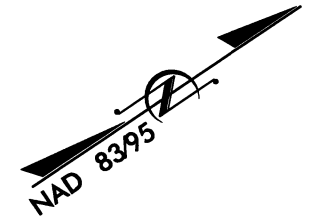
STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

BEAUFORT COUNTY

LOCATION: BRIDGE NO. 54 OVER ST. CLAIR CREEK ON NC 99

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

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	B-4418	1	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	
38359.1.1	BRSTP-0099(5)	PE	
38359.2.1	BRSTP-0099(5)	RW, UTIL.	



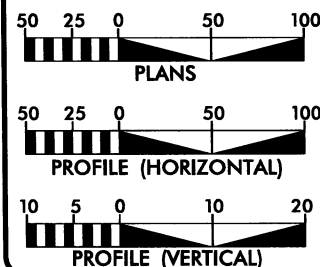
**DESIGN EXCEPTION REQUIRED FOR HORIZONTAL STOPPING SIGHT DISTANCE OF 443'.
THIS PROJECT IS NOT WITHIN ANY MUNICIPAL BOUNDARIES.
CLEARING ON THIS PROJECT SHALL BE PERFORMED TO THE LIMITS ESTABLISHED BY METHOD III.

PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION

TIP PROJECT: B-4418

CONTRACT: C202882

GRAPHIC SCALES



DESIGN DATA

ADT 2012 = 1,475
ADT 2032 = 2,200
DHV = 13%
D = 55%
T = 11%
**V = 60 MPH
*TTST = 4% DUAL = 7%
FUNC CLASS = MAJOR COLLECTOR REGIONAL TIER

PROJECT LENGTH

LENGTH ROADWAY TIP PROJECT B-4418 = 0.130 MILES
LENGTH STRUCTURE TIP PROJECT B-4418 = 0.022 MILES
TOTAL LENGTH TIP PROJECT B-4418 = 0.152 MILES

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

2006 STANDARD SPECIFICATIONS

RIGHT OF WAY DATE:
SEPTEMBER 23, 2011

LETTING DATE:
SEPTEMBER 18, 2012

GARY LOVERING, PE
PROJECT ENGINEER

RICK DECOLA, PE
PROJECT DESIGN ENGINEER

HYDRAULICS ENGINEER

SIGNATURE: _____ P.E.

ROADWAY DESIGN ENGINEER

SIGNATURE: _____ P.E.

DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA



STATE HIGHWAY DESIGN ENGINEER P.E.

IO-0CT-2011145
R:\PROJECTS\B4418_Rdy_tsh.dgn
\$\$\$\$\$USERNAME\$\$\$\$\$

04/16/11

Note: Not to Scale

*S.U.E. = Subsurface Utility Engineering

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

CONVENTIONAL PLAN SHEET SYMBOLS

BOUNDARIES AND PROPERTY:

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

BUILDINGS AND OTHER CULTURE:

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

RAILROADS:

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

RIGHT OF WAY:

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

ROADS AND RELATED FEATURES:

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

VEGETATION:

Single Tree	○
Single Shrub	○
Hedge	-----
Woods Line	-----

Orchard	-----
Vineyard	-----

EXISTING STRUCTURES:

MAJOR:	
Bridge, Tunnel or Box Culvert	-----
Bridge Wing Wall, Head Wall and End Wall	-----
MINOR:	
Head and End Wall	-----
Pipe Culvert	-----
Footbridge	-----
Drainage Box: Catch Basin, DI or JB	□
Paved Ditch Gutter	-----
Storm Sewer Manhole	○
Storm Sewer	-----

UTILITIES:

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

TELEPHONE:

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

WATER:

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

TV:

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

GAS:

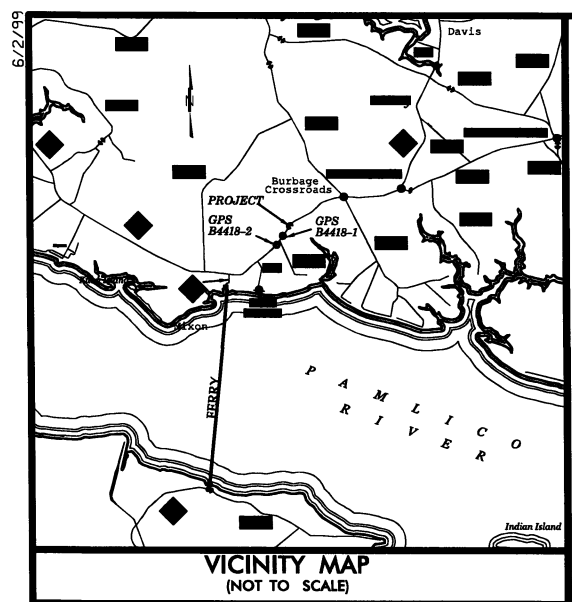
Gas Valve	◇
Gas Meter	⊕
Recorded U/G Gas Line	-----
Designated U/G Gas Line (S.U.E.*)	-----
Above Ground Gas Line	-----

SANITARY SEWER:

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

MISCELLANEOUS:

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

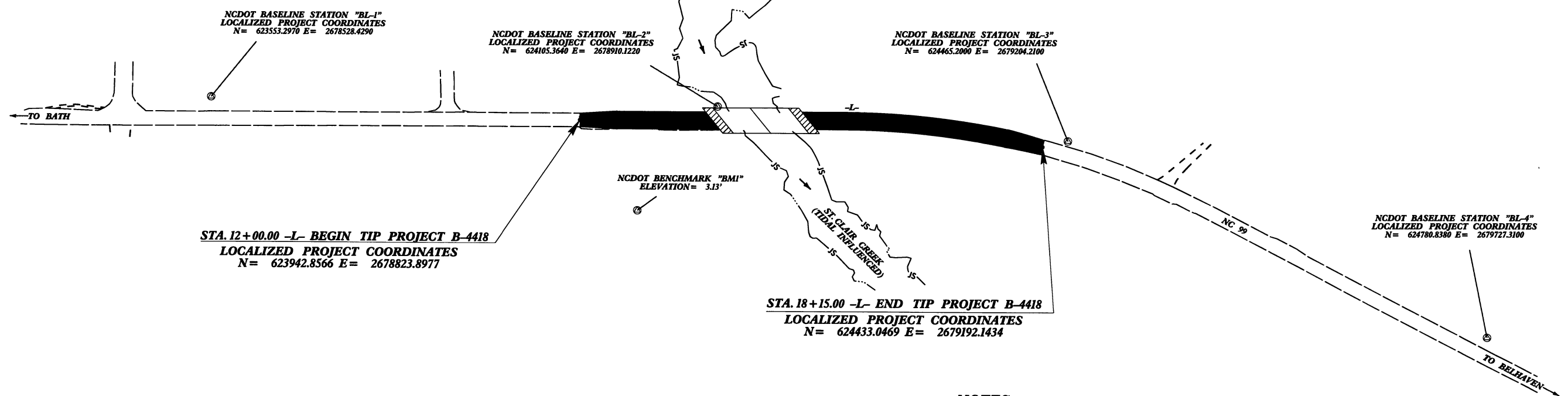
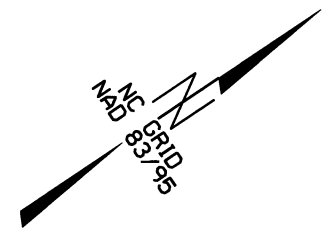


SURVEY CONTROL SHEET B-4418

PROJECT REFERENCE NO. B-4418	SHEET NO. 1-C
Location and Surveys	

BL POINT	DESC.	NORTH	EAST	ELEVATION	L STATION	OFFSET
1	BL-1	623553.2970	2678528.4290	7.52	OUTSIDE PROJECT LIMITS	
2	BL-2	624105.3640	2678910.1220	3.56	13+83.02	18.65 LT
3	BL-3	624465.2000	2679204.2100	2.93	18+44.88	16.48 LT
4	BL-4	624780.8380	2679727.3100	5.74	OUTSIDE PROJECT LIMITS	
GPS1	B4418-1	623214.3500	2678313.0850	6.37	OUTSIDE PROJECT LIMITS	
GPS2	B4418-2	622368.7140	2677722.9810	6.55	OUTSIDE PROJECT LIMITS	

.....
 BM1 ELEVATION = 3.13
 N 623939 E 2678965
 L STATION 12+75.00 120 RIGHT
 R/R SPIKE SET IN 14" PINE



NOTES:

- THE CONTROL DATA FOR THIS PROJECT CAN BE FOUND ELECTRONICALLY BY SELECTING PROJECT CONTROL DATA AT:
[HTTP://WWW.NCDOT.ORG/DOH/PRECONSTRUCT/HIGHWAY/LOCATION/PROJECT/](http://www.ncdot.org/DOH/PRECONSTRUCT/HIGHWAY/LOCATION/PROJECT/)
 THE FILES TO BE FOUND ARE AS FOLLOWS:
 B4418_LS_CONTROL.TXT
 SITE CALIBRATION INFORMATION HAS NOT BEEN PROVIDED FOR THIS PROJECT. IF FURTHER INFORMATION IS NEEDED, PLEASE CONTACT THE LOCATION AND SURVEYS UNIT.
- ⊕ INDICATES GEODETIC CONTROL MONUMENTS USED OR SET FOR HORIZONTAL PROJECT CONTROL BY THE NCDOT LOCATION AND SURVEYS UNIT.
 PROJECT CONTROL ESTABLISHED USING GLOBAL POSITIONING SYSTEM.
 NETWORK ESTABLISHED FROM NGS ONLINE POSITIONING SERVICE (OPUS)

DATUM DESCRIPTION
 THE LOCALIZED COORDINATE SYSTEM DEVELOPED FOR THIS PROJECT IS BASED ON THE STATE PLANE COORDINATES ESTABLISHED BY NCDOT FOR MONUMENT "GPS B4418-1" WITH NAD 83/95 STATE PLANE GRID COORDINATES OF
 NORTHING: 623214.3500(ft) EASTING: 2678313.0850(ft)
 ELEVATION: 6.37(ft)
 THE AVERAGE COMBINED GRID FACTOR USED ON THIS PROJECT (GROUND TO GRID) IS: 0.999883540
 THE N.C. LAMBERT GRID BEARING AND LOCALIZED HORIZONTAL GROUND DISTANCE FROM "GPS B4418-1" TO -L- STATION 12+00.00 IS
 N 35°02'14.2" E 889.748(ft)
 ALL LINEAR DIMENSIONS ARE LOCALIZED HORIZONTAL DISTANCES
 VERTICAL DATUM USED IS NAVD 88

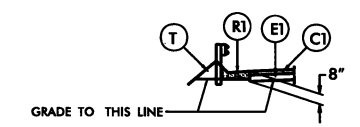
NOTE: DRAWING NOT TO SCALE

6/2/99
 10-DCT-20111445
 R:\Roadway\Projects\B4418_L.S.1c.dgn
 \$\$\$\$USERID\$\$\$\$

6/2/99

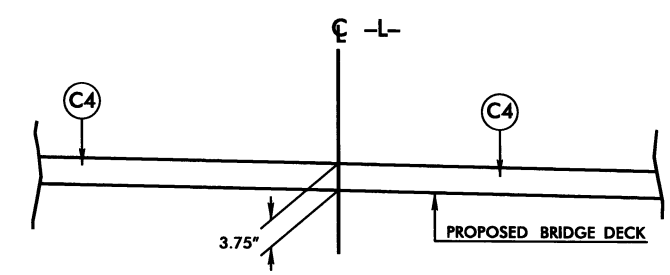
PAVEMENT SCHEDULE	
FINAL PAVEMENT DESIGN	
C1	PROP. APPROX. 3" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD. IN EACH OF TWO LAYERS.
C2	PROP. APPROX. 1.5" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD..
C3	PROP. APPROX. 2" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 224 LBS. PER SQ. YD..
C4	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" IN DEPTH.
E1	PROP. APPROX. 5" ASPHALT CONCRETE BASE COURSE, TYPE B25.0B, AT AN AVERAGE RATE OF 570 LBS. PER SQ. YD.
R1	SHOULDER BERM GUTTER.
T	EARTH MATERIAL.
U	EXISTING PAVEMENT.

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

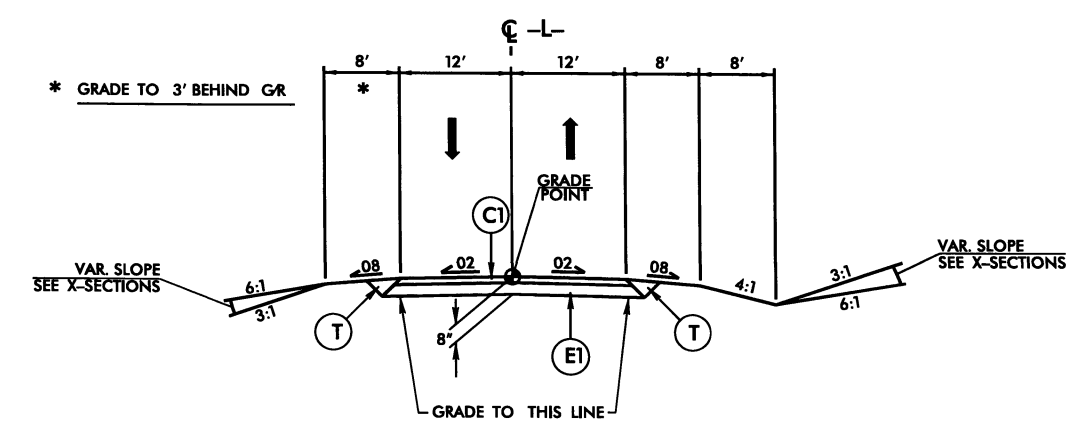


DETAIL SHOWING SHOULDER BERM GUTTER ON TOP OF SUBGRADE

- L- STA. 13+57.55 TO -L- STA. 13+61.55 (LT)
- L- STA. 13+76.89 TO -L- STA. 13+80.89 (RT)
- L- STA. 15+02.11 TO -L- STA. 15+06.11 (LT)
- L- STA. 15+21.45 TO -L- STA. 16+00.00 (RT)

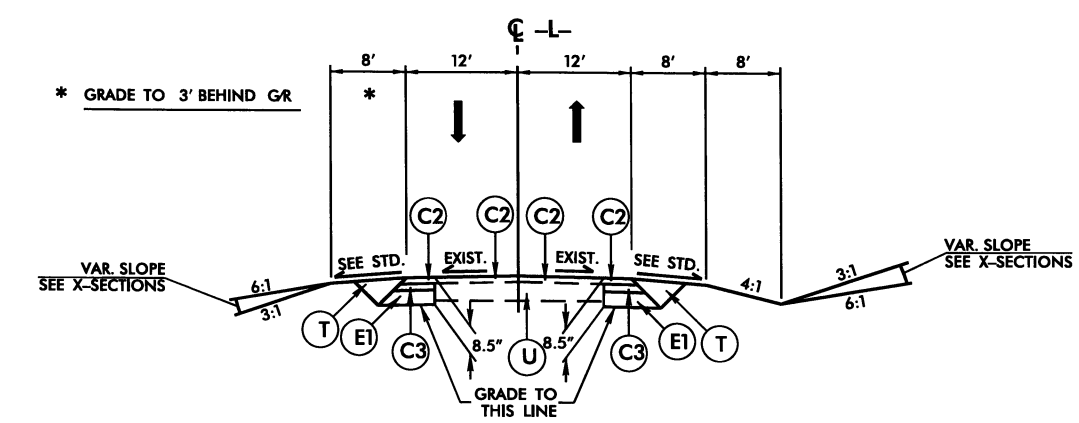


DETAIL SHOWING METHOD OF WEDGING ON BRIDGE DECK



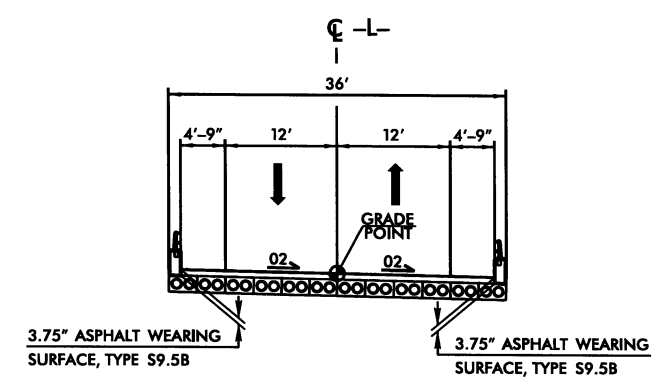
TYPICAL SECTION NO. 1

USE TYPICAL SECTION NO. 1
 -L- STA. 12+00.00 TO -L- STA. 13+83.06 (BEGIN BRIDGE)
 -L- STA. 15+00.94 (END BRIDGE) TO -L- STA. 18+15.00



TYPICAL SECTION NO. 2

USE TYPICAL SECTION NO. 2
 -L- STA. 18+15.00 TO -L- STA. 20+00.00



TYPICAL SECTION ON STRUCTURE

USE TYPICAL SECTION ON STRUCTURE
 -L- STA. 13+83.06 (BEGIN BRIDGE) TO
 -L- STA. 15+00.94 (END BRIDGE)

PROJECT REFERENCE NO. B-4418	SHEET NO. 2
ROADWAY DESIGN ENGINEER	PAVEMENT DESIGN ENGINEER
PRELIMINARY PLANS DO NOT USE FOR CONSTRUCTION	

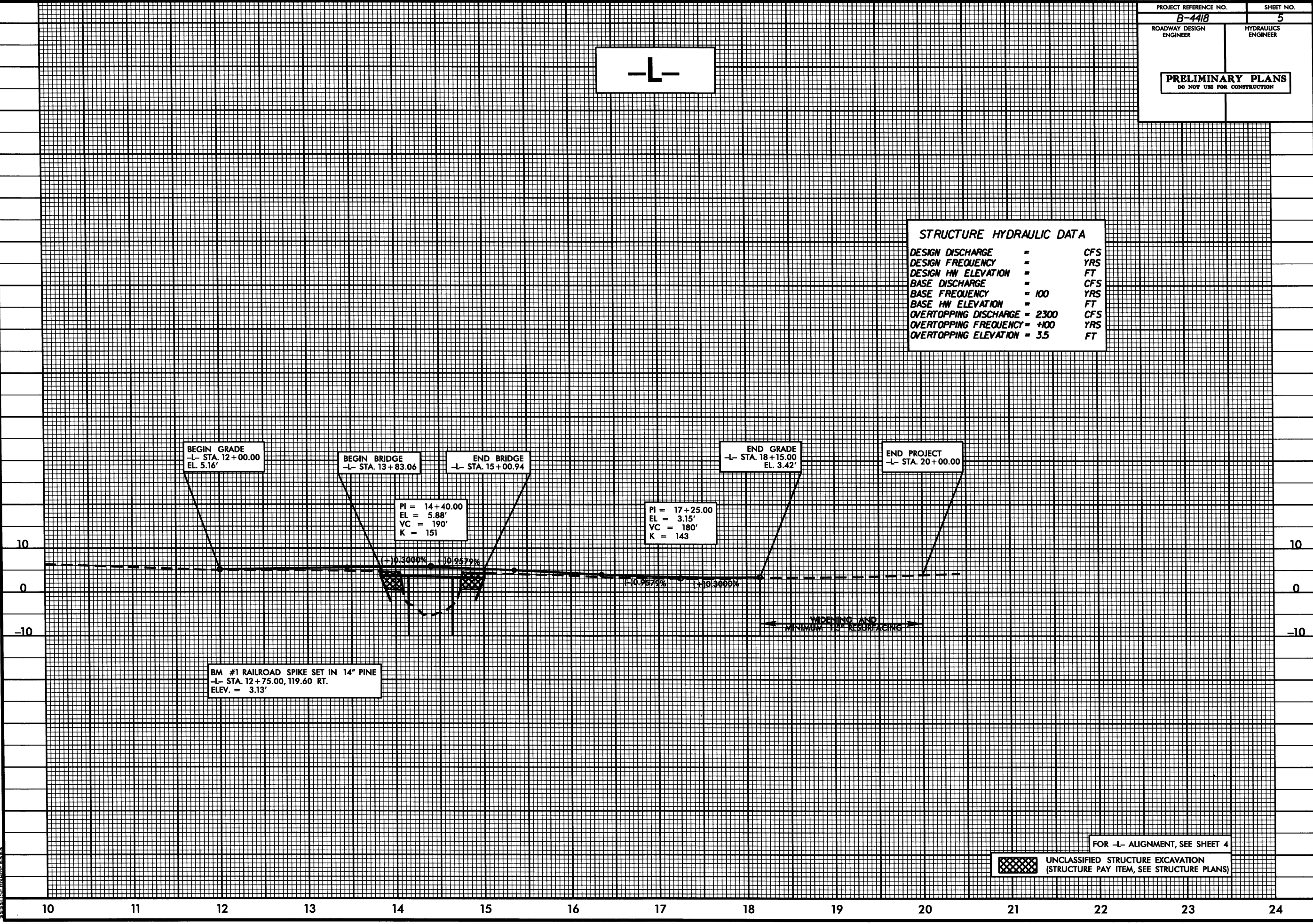
IP-DCT-2011145
 R:\Roadway\Projects\B4418_rdy_twp.dgn
 \$\$\$USERNAME\$\$\$

5/14/98

PROJECT REFERENCE NO. B-4418	SHEET NO. 5
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
PRELIMINARY PLANS DO NOT USE FOR CONSTRUCTION	

-L-

STRUCTURE HYDRAULIC DATA	
DESIGN DISCHARGE	= CFS
DESIGN FREQUENCY	= YRS
DESIGN HW ELEVATION	= FT
BASE DISCHARGE	= CFS
BASE FREQUENCY	= 100 YRS
BASE HW ELEVATION	= FT
OVERTOPPING DISCHARGE	= 2300 CFS
OVERTOPPING FREQUENCY	= 100 YRS
OVERTOPPING ELEVATION	= 35 FT



BEGIN GRADE
-L- STA. 12+00.00
EL. 5.16'

BEGIN BRIDGE
-L- STA. 13+83.06

END BRIDGE
-L- STA. 15+00.94

END GRADE
-L- STA. 18+15.00
EL. 3.42'

END PROJECT
-L- STA. 20+00.00

PI = 14+40.00
EL = 5.88'
VC = 190'
K = 151

PI = 17+25.00
EL = 3.15'
VC = 180'
K = 143

BM #1 RAILROAD SPIKE SET IN 14" PINE
-L- STA. 12+75.00, 119.60 RT.
ELEV. = 3.13'

WIDENING AND
MINIMUM 12" RESURFACING

FOR -L- ALIGNMENT, SEE SHEET 4

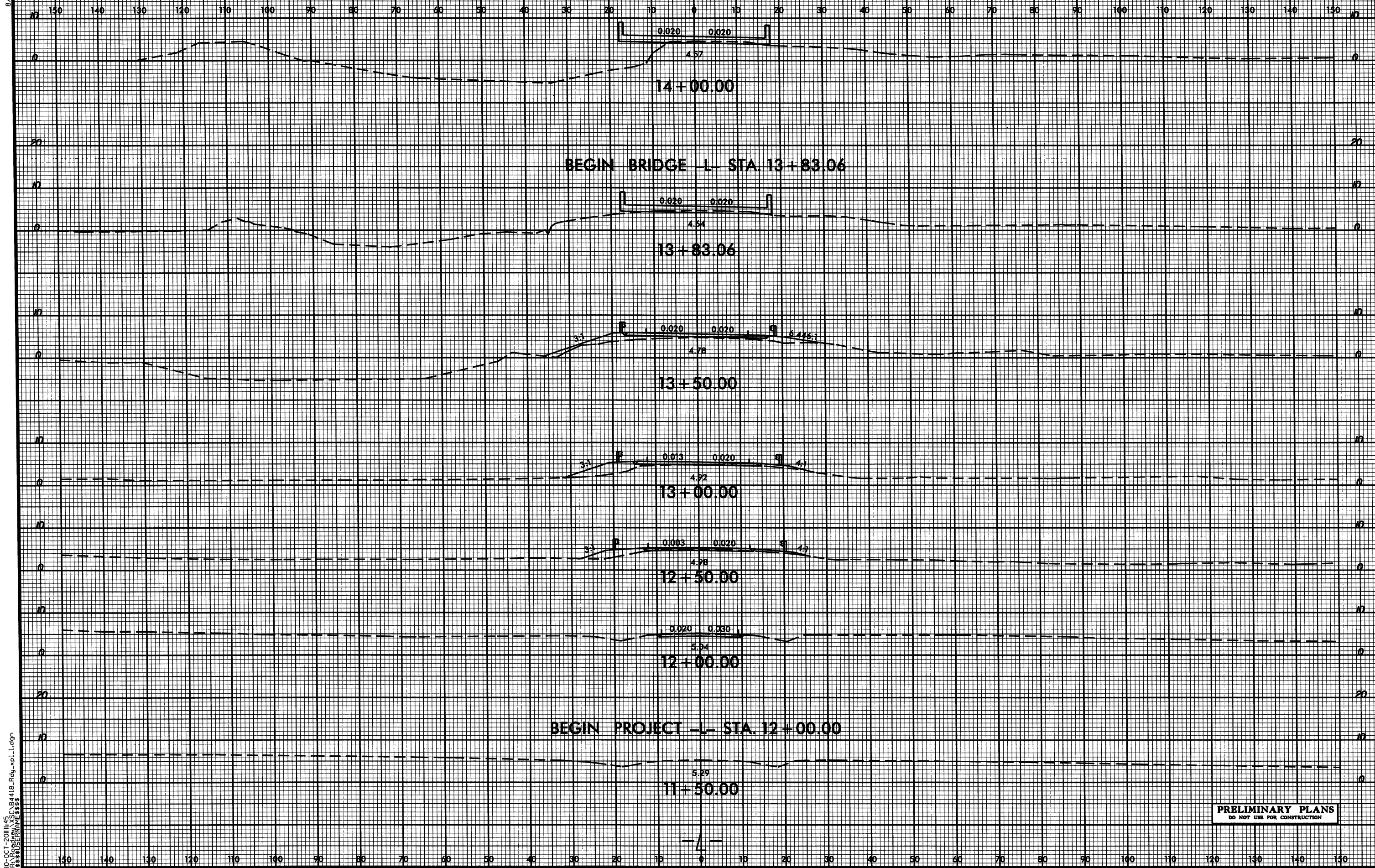
UNCLASSIFIED STRUCTURE EXCAVATION
(STRUCTURE PAY ITEM, SEE STRUCTURE PLANS)

I:\OCT-2011\1145
 R:\Roadway\Projects\B4418_r-du-pl.dgn
 \$\$\$USERNAME\$\$\$

8/23/99



PROJ. REFERENCE NO.	SHEET NO.
B-4418	X-1



14 + 00.00

BEGIN BRIDGE -L- STA. 13 + 83.06

13 + 83.06

13 + 50.00

13 + 00.00

12 + 50.00

12 + 00.00

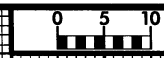
BEGIN PROJECT -L- STA. 12 + 00.00

11 + 50.00

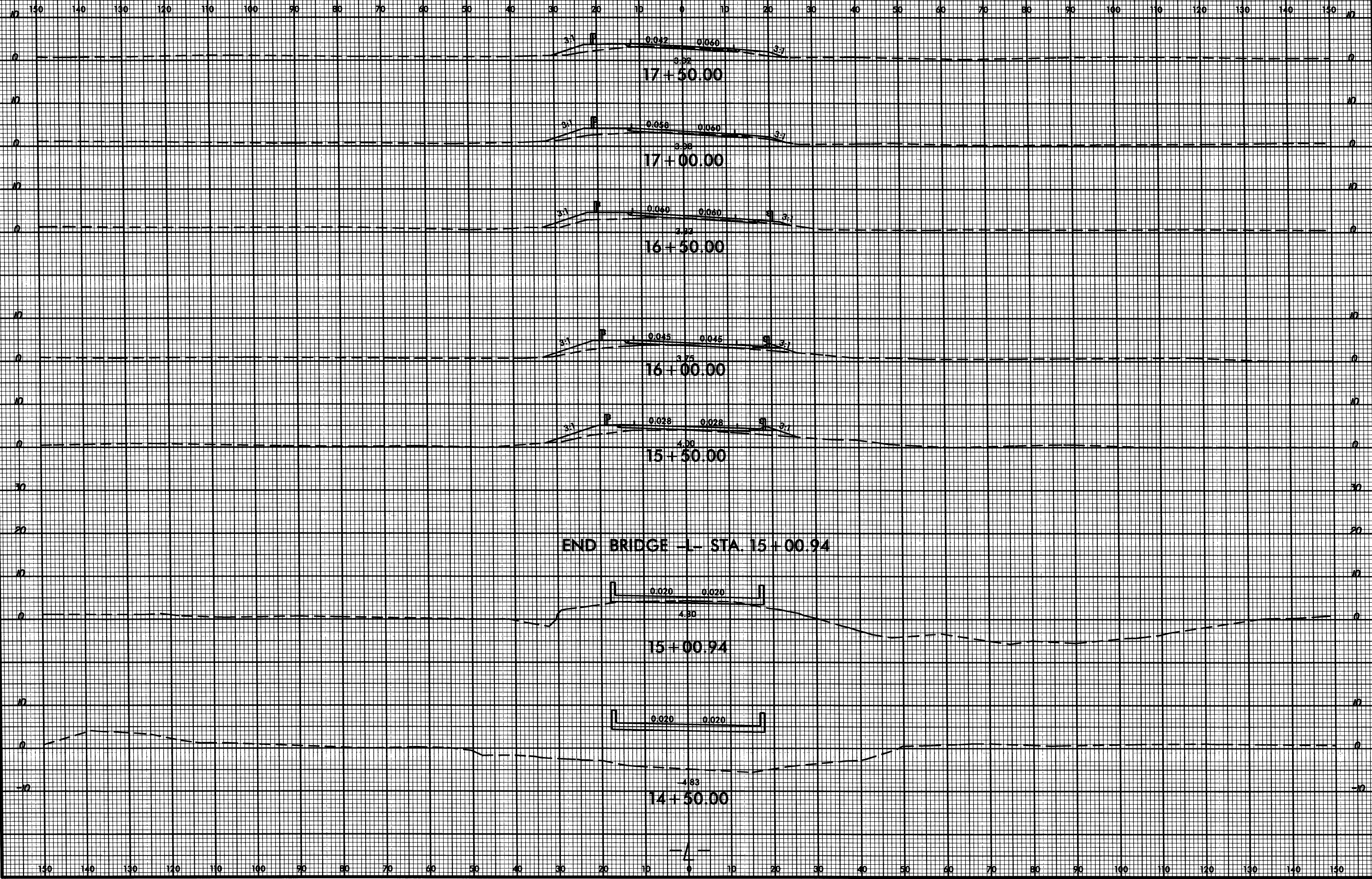
PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION

IO:\CT-2011\45
R:\Revised\X\SCYB4418_Rdy_xp_1.dgn
\$\$\$\$\$

B/23/99



PROJ. REFERENCE NO.	SHEET NO.
B-4418	X-2



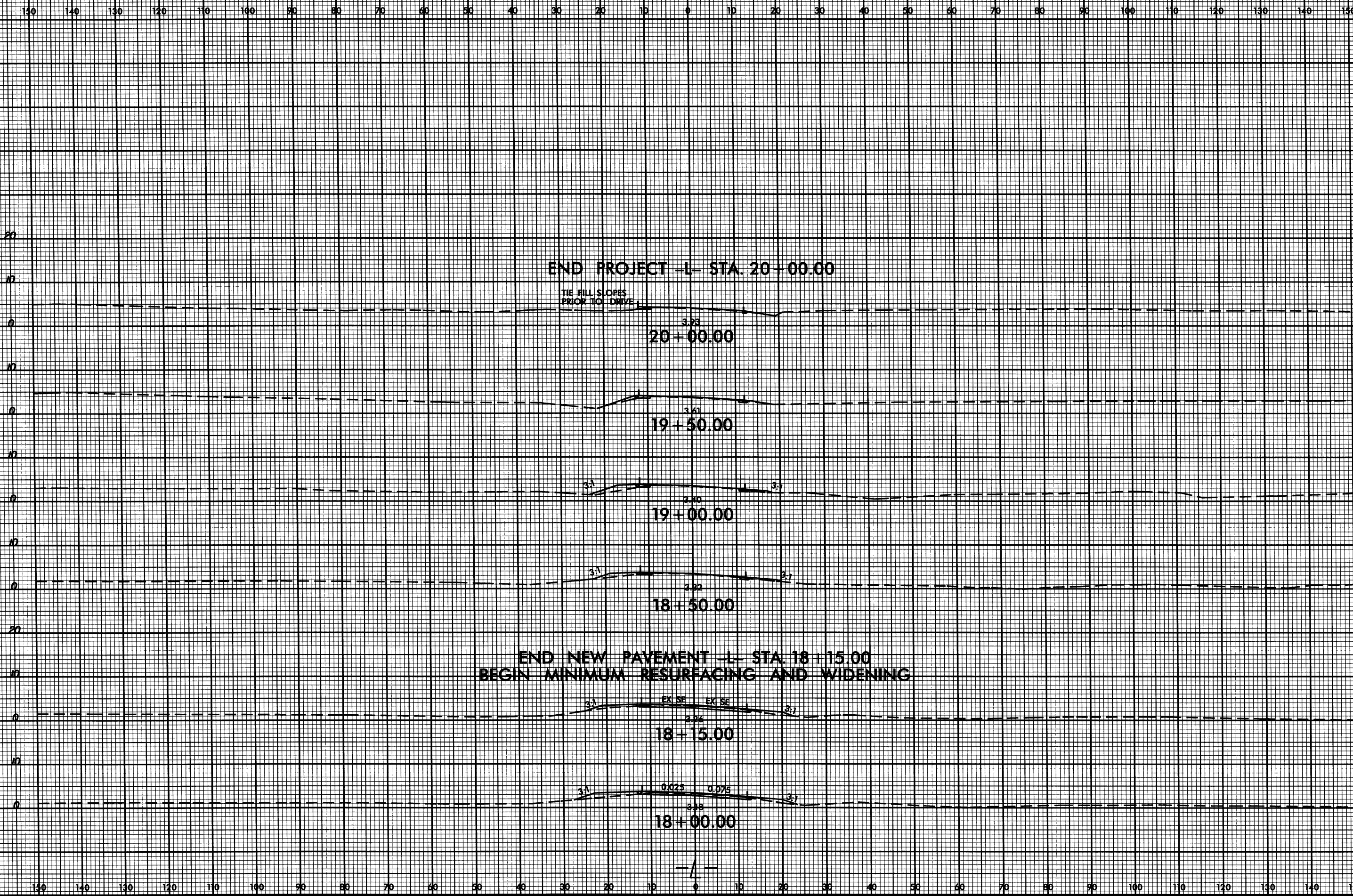
END BRIDGE -L- STA. 15+00.94

10-OCT-2011 11:45
R:\Projects\XSC\B4418_Rdy_xpl1.dgn
\$\$\$\$\$USERNAME\$\$\$\$\$

8/23/98



PROJ. REFERENCE NO.	SHEET NO.
B-4418	X-3



10-OCT-2011 11:45
 R:\Reserve\XSC\B4418_Red_xp_1.dgn
 sssuser\name