



STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION

BEVERLY EAVES PERDUE
GOVERNOR

EUGENE A. CONTI
SECRETARY

November 2, 2011

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

Attention: Thomas Steffens
NCDOT Coordinator

Dear Sir:

Subject: **Application for Section 10, Section 404 Nationwide Permits 23 and 13, Section 401 Water Quality Certification, and Neuse Riparian Buffer Authorization** for the proposed replacement of Bridge 40 over the Neuse River on US 70 Business, Johnston County. TIP No. B-3864; Federal Aid Project No. BRSTP-70B(3); Debit \$240.00 from WBS 33310.1.1

Please find enclosed the PCN form, permit drawings, buffer drawings, Stormwater Management Plan, utility drawings, utility narrative, half-size plan sheets, and USFWS concurrence letter for the above referenced project. A Categorical Exclusion (CE) was completed for this project in September 16, 2010, and distributed shortly thereafter. Additional copies will be made available upon request. The North Carolina Department of Transportation (NCDOT) proposes to replace existing Bridge No. 40 on US 70 Business over the Neuse River in Johnston County. The project involves replacement of the existing 313.5-foot structure with a 375-foot long bridge in approximately the same location. Permanent impacts to Waters of the United States associated with this project include excavation of <0.01 acre of riparian wetlands, and bank stabilization of 148 linear feet of stream.

The let date for this project is March 20, 2012; however, the let date may advance as additional funds become available.

Regulatory approvals

Section 10 Permit: NCDOT requests Section 10 authorization.

Section 404 Permit: All aspects of this project are being processed by the Federal Highway Administration as a "Categorical Exclusion" in accordance with 23 CFR 771.115(b). The NCDOT requests that a Nationwide Permit 23 authorize these activities.

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

TELEPHONE: 919-707-6100
FAX: 919-212-5785

WEBSITE: WWW.NCDOT.ORG

LOCATION:
1020 BIRCH RIDGE DRIVE
RALEIGH NC 27610-4328

Section 401 Water Quality Certification: We anticipate 401 General Certification number 3701 will apply to this project. All general conditions of the Water Quality Certification will be met. NCDOT is providing five copies of this application to the NCDWQ for their review and approval. Authorization to debit the \$240 Permit Application Fee from WBS Element 33310.1.1 is hereby given.

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

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

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

Sincerely,



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

cc:

NCDOT Permit Application Standard Distribution List



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

Pre-Construction Notification (PCN) Form

A. Applicant Information

1. Processing

1a. Type(s) of approval sought from the Corps:	☒ Section 404 Permit	☒ Section 10 Permit
1b. Specify Nationwide Permit (NWP) number: 23 13 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: ☐ Yes ☒ No	For the record only for Corps Permit: ☐ Yes ☒ 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.	☐ Yes	☒ No
1g. Is the project located in any of NC's twenty coastal counties. If yes, answer 1h below.	☐ Yes	☒ No
1h. Is the project located within a NC DCM Area of Environmental Concern (AEC)?	☐ Yes	☒ No

2. Project Information

2a. Name of project:	Replacement of Bridge 40 over the Neuse River on US 70 Business
2b. County:	Johnston
2c. Nearest municipality / town:	Smithfield
2d. Subdivision name:	not applicable
2e. NCDOT only, T.I.P. or state project no:	B-3864

3. Owner Information

3a. Name(s) on Recorded Deed:	North Carolina Department of Transportation
3b. Deed Book and Page No.	not applicable
3c. Responsible Party (for L LC if applicable):	not applicable
3d. Street address:	1598 Mail Service Center
3e. City, state, zip:	Raleigh, NC 27699-1598
3f. Telephone no.:	(919) 707-6135
3g. Fax no.:	(919) 212-5785
3h. Email address:	cdmanley@ncdot.gov

4. Applicant Information (if different from owner)	
4a. Applicant is:	☐ Agent ☐ 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: 35.5131 (DD.DDDDDD) Longitude: - 78.3497 (-DD.DDDDDD)
1c. Property size:	5 acres
2. Surface Waters	
2a. Name of nearest body of water (stream, river, etc.) to proposed project:	Neuse River
2b. Water Quality Classification of nearest receiving water:	WS-V, NSW
2c. River basin:	Neuse
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: The primary natural community found on the site is bottomland hardwood forest, the remainder is maintained/disturbed; the principal land use in the project vicinity includes commercial development.	
3b. List the total estimated acreage of all existing wetlands on the property: 0.23	
3c. List the total estimated linear feet of all existing streams (intermittent and perennial) on the property: 200	
3d. Explain the purpose of the proposed project: To replace a structurally deficient and functionally obsolete bridge.	
3e. Describe the overall project in detail, including the type of equipment to be used: The project involves replacing a 313.5-foot bridge with a 375-foot, three-span bridge on the existing alignment with an off-site detour. Standard road building equipment, such as trucks, dozers, and cranes will be used.	
4. Jurisdictional Determinations	
4a. Have jurisdictional wetland or stream determinations by the Corps or State been requested or obtained for this property / project (including all prior phases) in the past? Comments: SAW 2009-01511	☒ Yes ☐ No ☐ Unknown
4b. If the Corps made the jurisdictional determination, what type of determination was made?	☐ Preliminary ☒ Final
4c. If yes, who delineated the jurisdictional areas? Name (if known): Adam Efir	Agency/Consultant Company: PBS&J Other:
4d. If yes, list the dates of the Corps jurisdictional determinations or State determinations and attach documentation. 8/12/2009	
5. Project History	
5a. Have permits or certifications been requested or obtained for this project (including all prior phases) in the past?	☐ Yes ☒ No ☐ Unknown
5b. If yes, explain in detail according to "help file" instructions.	
6. Future Project Plans	
6a. Is this a phased project?	☐ Yes ☒ No
6b. If yes, explain.	

C. Proposed Impacts Inventory**1. Impacts Summary**

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

- ☒ Wetlands ☒ Streams - tributaries ☒ Buffers
☐ Open Waters ☐ Pond Construction

2. Wetland Impacts

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

2a. Wetland impact number – Permanent (P) or Temporary (T)	2b. Type of impact	2c. Type of wetland (if known)	2d. Forested	2e. Type of jurisdiction (Corps - 404, 10 DWQ – non-404, other)	2f. Area of impact (acres)
Site 1 ☒ P ☐ T	excavation	bottomland hardwood	☒ Yes ☐ No	☒ Corps ☐ DWQ	<0.01
Site 2 ☐ P ☒ T	Fill	bottomland hardwood	☐ Yes ☒ No	☒ Corps ☐ DWQ	0.06
Site 3 ☐ P ☐ T			☐ Yes ☐ No	☐ Corps ☐ DWQ	
Site 4 ☐ P ☐ T			☐ Yes ☐ No	☐ Corps ☐ DWQ	
Site 5 ☐ P ☐ T			☐ Yes ☐ No	☐ Corps ☐ DWQ	
Site 6 ☐ P ☐ T			☐ Yes ☐ No	☐ Corps ☐ DWQ	
2g. Total wetland impacts					<0.01 Permanent 0.06 Temporary

2h. Comments: 62.8 sqft of fill in surface waters due to bridge bents.

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 ☒ P ☐ T	Bank Stabilization	Neuse River	☒ PER ☐ INT	☒ Corps ☐ DWQ	150	148
Site 2 ☐ P ☐ T			☐ PER ☐ INT	☐ Corps ☐ DWQ		
Site 3 ☐ P ☐ T			☐ PER ☐ INT	☐ Corps ☐ DWQ		
Site 4 ☐ P ☐ T			☐ PER ☐ INT	☐ Corps ☐ DWQ		
Site 5 ☐ P ☐ T			☐ PER ☐ INT	☐ Corps ☐ DWQ		
3h. Total stream and tributary impacts						148 Perm 0 Temp

3i. Comments: 0.02 ac. of temporary impacts for construction of the temporary work bridge.

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 ☐ P ☐ T				
O2 ☐ P ☐ T				
O3 ☐ P ☐ T				
O4 ☐ P ☐ T				
4f. Total open water impacts				0 Permanent 0 Temporary

4g. Comments:

5. Pond or Lake Construction

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

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

5g. Comments:

5h. Is a dam high hazard permit required?	☐ Yes	☐ 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.

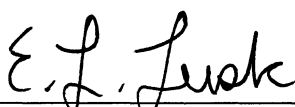
6a. Project is in which protected basin?			☒ Neuse ☐ Catawba	☐ Tar-Pamlico ☐ Randleman	☐ Other:
6b. Buffer impact number – Permanent (P) or Temporary (T)	6c. Reason for impact	6d. Stream name	6e. Buffer mitigation required?	6f. Zone 1 impact (square feet)	6g. Zone 2 impact (square feet)
B1 ☒ P ☐ T	bridge	Neuse River	☐ Yes ☒ No	6,394	3,352
B2 ☒ P ☐ T	Utility	Neuse River	☐ Yes ☒ No	2,145	1,435
B3 ☐ P ☐ T			☐ Yes ☐ No		
B4 ☐ P ☐ T			☐ Yes ☐ No		
6h. Total buffer impacts				8,539	4,787
6i. Comments:					

D. Impact Justification and Mitigation		
1. Avoidance and Minimization		
1a. Specifically describe measures taken to avoid or minimize the proposed impacts in designing project. The proposed bridge is 62 feet longer than the existing bridge; the proposed bridge will be at approximately the same grade as the existing structure; the existing 6-span bridge will be replaced with a three-span with one bent in the stream. Design Standards in Sensitive Watersheds will be implemented and 2:1 slopes will be used in jurisdictional areas. Performed scour holes will be utilized.		
1b. Specifically describe measures taken to avoid or minimize the proposed impacts through construction techniques. NCDOT Best Management Practices for Bridge Demolition, Removal and Construction will be followed, as well as those for Sedimentation and Erosion Control will be adhered to. An offsite detour will be implemented. An in-water construction moratorium from Feb. 15-Sept 30 will be adhered to, due to anadromous fish and inland primary nursery area. Protective fencing will be installed around the historic Neuse Little Theatre property during construction. There will be not staging or storage of construction equipment or materials on the historic Neuse Little Theatre property.		
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?	☐ Yes ☒ No If no, explain: Due to impacts from bank stabilization, no compensatory mitigation is proposed.	
2b. If yes, mitigation is required by (check all that apply):	☐ DWQ ☐ Corps	
2c. If yes, which mitigation option will be used for this project?	☐ Mitigation bank ☐ Payment to in-lieu fee program ☐ 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.	☐ Yes	
4b. Stream mitigation requested:	linear feet	
4c. If using stream mitigation, stream temperature:	☐ warm ☐ cool ☐ 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?				☐ Yes ☒ No
6b. If yes, then identify the square feet of impact to each zone of the riparian buffer that requires mitigation. Calculate the amount of mitigation required.				
Zone	6c. Reason for impact	6d. Total impact (square feet)	Multiplier	6e. Required mitigation (square feet)
Zone 1			3 (2 for Catawba)	
Zone 2			1.5	
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?	☒ Yes ☐ No
1b. If yes, then is a diffuse flow plan included? If no, explain why. Comments: see attached permit drawings.	☒ Yes ☐ 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?	☒ Yes ☐ 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?	☐ Certified Local Government ☐ DWQ Stormwater Program ☒ 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):	☐ Phase II ☐ NSW ☐ USMP ☐ Water Supply Watershed ☐ Other:
3c. Has the approved Stormwater Management Plan with proof of approval been attached?	☐ Yes ☐ No
4. DWQ Stormwater Program Review	
4a. Which of the following state-implemented stormwater management programs apply (check all that apply):	☐ Coastal counties ☐ HQW ☐ ORW ☐ Session Law 2006-246 ☐ Other:
4b. Has the approved Stormwater Management Plan with proof of approval been attached?	☐ Yes ☐ No
5. DWQ 401 Unit Stormwater Review	
5a. Does the Stormwater Management Plan meet the appropriate requirements?	☐ Yes ☐ No N/A
5b. Have all of the 401 Unit submittal requirements been met?	☐ Yes ☐ 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?	☒ Yes ☐ 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)?	☒ Yes ☐ 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:	☒ Yes ☐ 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)?	☐ Yes ☒ No
2b. Is this an after-the-fact permit application?	☐ Yes ☒ 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?	☐ Yes ☒ 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?	☒ Yes	☐ No
5b. Have you checked with the USFWS concerning Endangered Species Act impacts?	☒ Yes	☐ No
5c. If yes, indicate the USFWS Field Office you have contacted.	☒ Raleigh ☐ Asheville	
5d. What data sources did you use to determine whether your site would impact Endangered Species or Designated Critical Habitat? NHP and NCDOT field surveys. Concurrence has been received from the USFWS. (see attached)		
6. Essential Fish Habitat (Corps Requirement)		
6a. Will this project occur in or near an area designated as essential fish habitat?	☐ Yes	☒ 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)?	☒ Yes	☐ 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?	☒ Yes	☐ No
8b. If yes, explain how project meets FEMA requirements: NCDOT Hydraulics Unit coordination with FEMA		
8c. What source(s) did you use to make the floodplain determination? FEMA Maps		
<u>Dr. Gregory J. Thorpe, Ph D</u> Applicant/Agent's Printed Name	 _____ Applicant/Agent's Signature (Agent's signature is valid only if an authorization letter from the applicant is provided.)	10-31-11 _____ Date

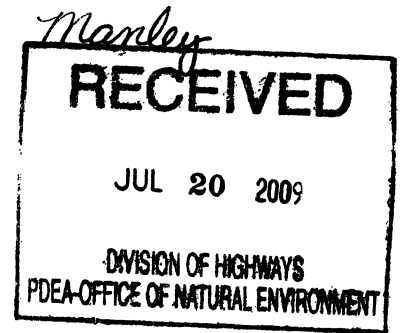


United States Department of the Interior

FISH AND WILDLIFE SERVICE
Raleigh Field Office
Post Office Box 33726
Raleigh, North Carolina 27636-3726

July 16, 2009

CR-7.20.09
CC. L. Williams



Gregory J. Thorpe, Ph.D.
North Carolina Department of Transportation
Project Development and Environmental Analysis
1598 Mail Service Center
Raleigh, North Carolina 27699-1598

Dear Dr. Thorpe:

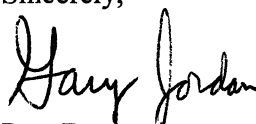
This letter is in response to your letter of July 8, 2009 which provided the U.S. Fish and Wildlife Service (Service) with the biological determination of the North Carolina Department of Transportation (NCDOT) that the replacement of Bridge No. 40 on US 70 Business over the Neuse River in Johnston County (TIP No. B-3864) may affect, but is not likely to adversely affect the federally endangered dwarf wedgemussel (*Alasmodonta heterodon*) and Tar River spinymussel (*Elliptio steinstansana*). In addition, NCDOT has determined that the project will have no effect on the federally endangered red-cockaded woodpecker (*Picoides borealis*) and Michaux's sumac (*Rhus michauxii*). These comments are provided in accordance with section 7 of the Endangered Species Act (ESA) of 1973, as amended (16 U.S.C. 1531-1543).

According to information provided, a mussel survey was conducted at the project site on August 22, 2005. The survey extended 100 meters upstream and 400 meters downstream of US 70 Business. Neither of the federally listed mussel species was found, and habitat quality for the two species was not optimal.

Based on the mussel survey results and other available information, the Service concurs with your determination that the proposed project may affect, but is not likely to adversely affect the dwarf wedgemussel and Tar River spinymussel. We also concur that the project will have no effect on the red-cockaded woodpecker and Michaux's sumac. We believe that the requirements of section 7(a)(2) of the ESA have been satisfied. We remind you that obligations under section 7 consultation must be reconsidered if: (1) new information reveals impacts of this identified action that may affect listed species or critical habitat in a manner not previously considered in this review; (2) this action is subsequently modified in a manner that was not considered in this review; or (3) a new species is listed or critical habitat determined that may be affected by this identified action.

The Service appreciates the opportunity to review this project. If you have any questions regarding our response, please contact Mr. Gary Jordan at (919) 856-4520 (Ext. 32).

Sincerely,


for Pete Benjamin
Field Supervisor

cc: William Wescott, USACE, Washington, NC
Travis Wilson, NCWRC, Creedmoor, NC
Chris Militscher, USEPA, Raleigh, NC
John Sullivan, FHWA, Raleigh, NC
David Harris, NCDOT, Raleigh, NC

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

COPY

Action Id. SAW 2009-01511

County: Johnston

U.S.G.S. Quad: _____

NOTIFICATION OF JURISDICTIONAL DETERMINATION

Property Owner/Agent: NCDOT

Address: Attn: Gregory Thorpe, Ph.D.
1598 Mail Service Center
Raleigh, North Carolina 27699-1598

Telephone No.: 919-431-2000

Property description:

Size (acres)	<u>>1 acre</u>	Nearest Town	<u>Smithfield</u>
Nearest Waterway	<u>Neuse River</u>	River Basin	<u>Neuse</u>
USGS HUC	<u>03020201</u>	Coordinates	<u>N 35.512784 W -78.349777</u>
Location description	<u>US 70 Business, Bridge 40 over Neuse River, B-3864 in Smithfield, NC.</u>		

Indicate Which of the Following Apply:

A. Preliminary Determination

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

B. Approved Determination

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

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

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

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

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

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

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

Action Id. SAW 2009-01511

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 William Wescott at 910-251-4629.

C. Basis For Determination

Wetland areas delineated using 1987 USACE Wetland Delineation Manual and are adjacent to the Neuse River a TNW.

D. Remarks

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

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

District Engineer, Wilmington Regulatory Division
Attn: William Wescott, Project Manager,
Washington Regulatory Field Office
2407 West Fifth Street
Washington, North Carolina 27889

In order for an RFA to be accepted by the Corps, the Corps must determine that it is complete, that it meets the criteria for appeal under 33 CFR part 331.5, and that it has been received by the District Office within 60 days of the date of the NAP. Should you decide to submit an RFA form, it must be received at the above address by 10/12/2009.

****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:

William Wescott, P.W.S.

Date 08/12/2009

Expiration Date 08/12/2014

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:
Adam Efird, PBS&J

NOTIFICATION OF ADMINISTRATIVE APPEAL OPTIONS AND PROCESS AND REQUEST FOR APPEAL

Applicant: NCDOT	File Number: SAW 2009-01511	Date: 8/12/2009
Attached is:		See Section below
☐ INITIAL PROFFERED PERMIT (Standard Permit or Letter of permission)	A	
☐ PROFFERED PERMIT (Standard Permit or Letter of permission)	B	
☐ PERMIT DENIAL	C	
☒ APPROVED JURISDICTIONAL DETERMINATION	D	
☐ 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/cecwo/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:

USACE
attn: William Wescott
2407 West Fifth Street
Washington, NC 27889

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.

_____ Signature of appellant or agent.	Date:	Telephone number:
---	-------	-------------------

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

**District Engineer, Wilmington Regulatory Division, Attn: William Wescott, Project Manager,
Washington Regulatory Field Office, 2407 West Fifth Street, Washington, North Carolina 27889**

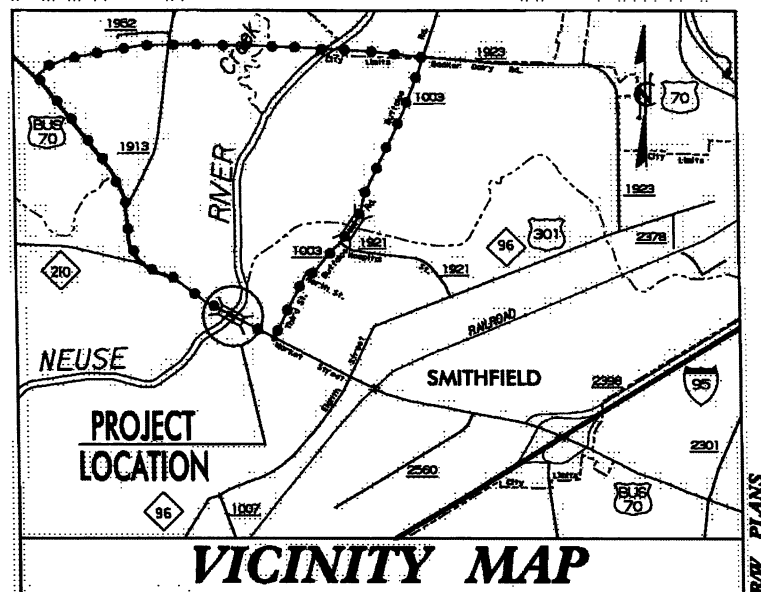
For Permit denials and Proffered Permits send this form to:

**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**

TIP PROJECT: B-3864

CONTRACT:

See Sheet 1-B For Conventional Symbols



THIS PROJECT IS WITHIN THE MUNICIPAL BOUNDARIES OF SMITHFIELD.

●●●●●●●●●● **DENOTES DETOUR ROUTE**

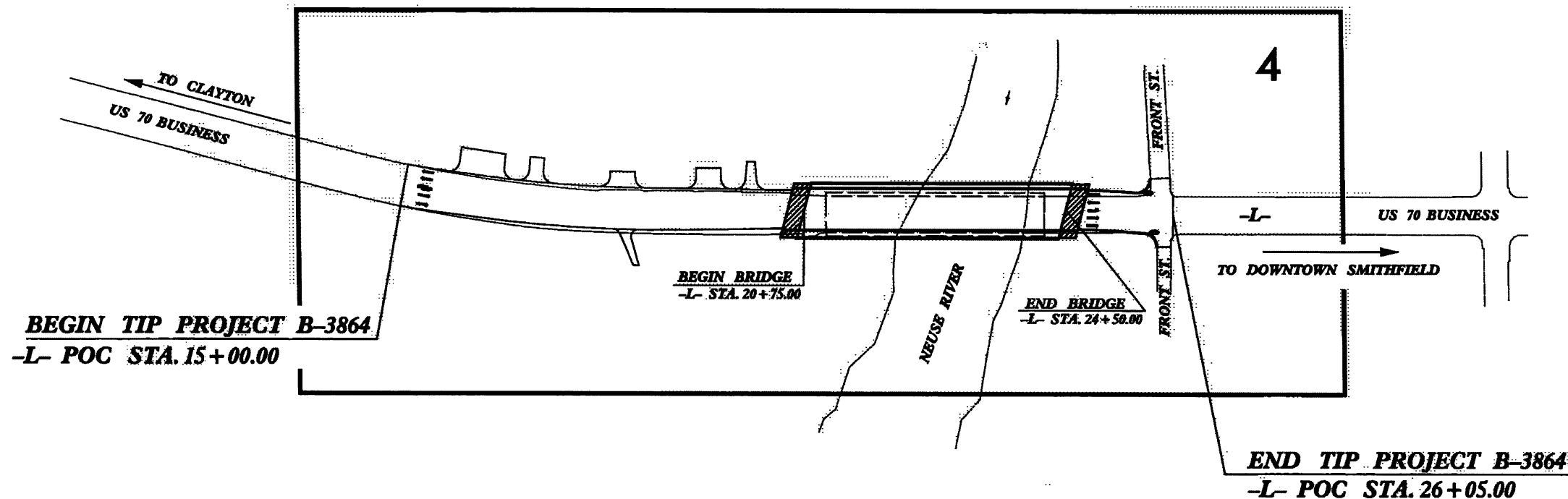
STATE OF NORTH CAROLINA DIVISION OF HIGHWAYS

JOHNSTON COUNTY

**LOCATION: BRIDGE NO. 40 OVER NEUSE RIVER
ON US 70 BUSINESS**

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

WETLAND & STREAM IMPACTS

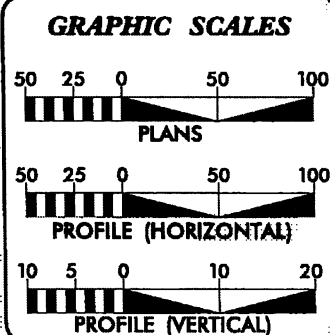


**** Design Exception Requested for Bridge Width and Superelevation.**

NCDOT CONTACT: K. ZAK HAMIDI, P.E.
ROADWAY DESIGN - ENGINEERING COORDINATION

CLEARING ON THIS PROJECT SHALL BE PERFORMED TO THE LIMITS ESTABLISHED BY METHOD III.

PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION



DESIGN DATA
ADT 2012 = 27,400
ADT 2032 = 43,100
DHV = 10 %
D = 55 %
T = 3 % *
V = 50 MPH **
***(TTST 1% + DUAL 2%)**
REGIONAL TIER
FUNC. CLASS =
PRINCIPAL ARTERIAL

PROJECT LENGTH

<u>LENGTH ROADWAY TIP PROJECT B-3864</u>	=	<u>0.138 MI.</u>
<u>LENGTH STRUCTURES TIP PROJECT B-3864</u>	=	<u>0.071 MI.</u>
<u>TOTAL LENGTH OF TIP PROJECT B-3864</u>	=	<u>0.209 MI.</u>

Prepared In the Office of:
Florence & Hutcheson
CONSULTING ENGINEERS
2200 Washington Blvd., Suite 1000, Washington, DC 20037
NC License No. F-001

FOR
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION

2012 STANDARD SPECIFICATIONS:

RIGHT OF WAY DATE:
FEBRUARY 18, 2011

LETTING DATE:
MARCH 20, 2012

DAVID C. WALLER, P.E.
PROJECT ENGINEER

MICHAEL A. YOUNG, P.E.
PROJECT DESIGN ENGINEER

HYDRAULICS ENGINEER

SIGNATURE: _____ **P.E.**

ROADWAY DESIGN ENGINEER

SIGNATURE: _____ **PR**

DIVISION OF HIGHWAYS STATE OF NORTH CAROLINA

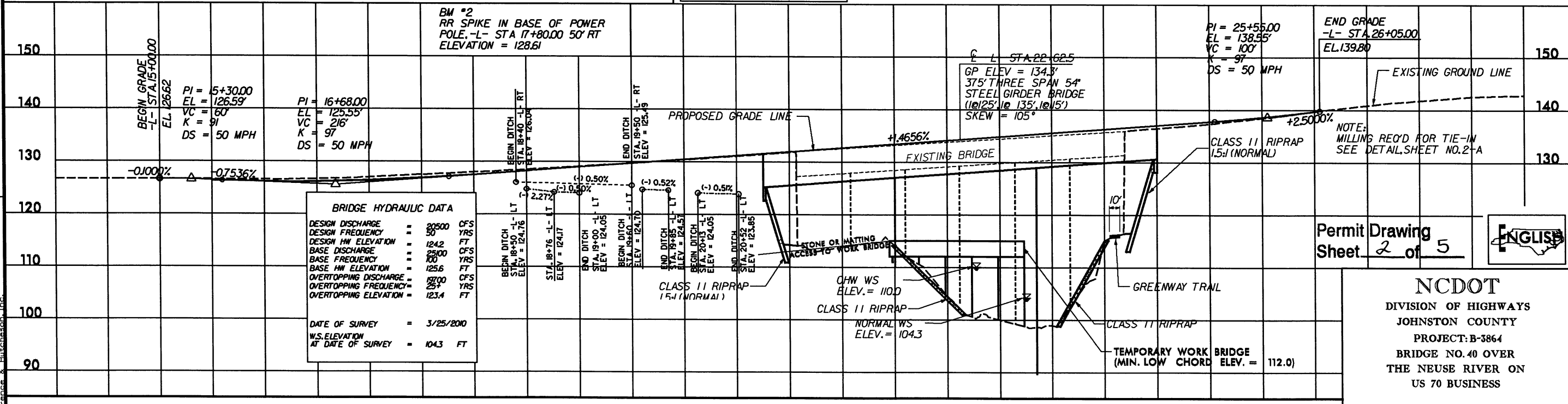
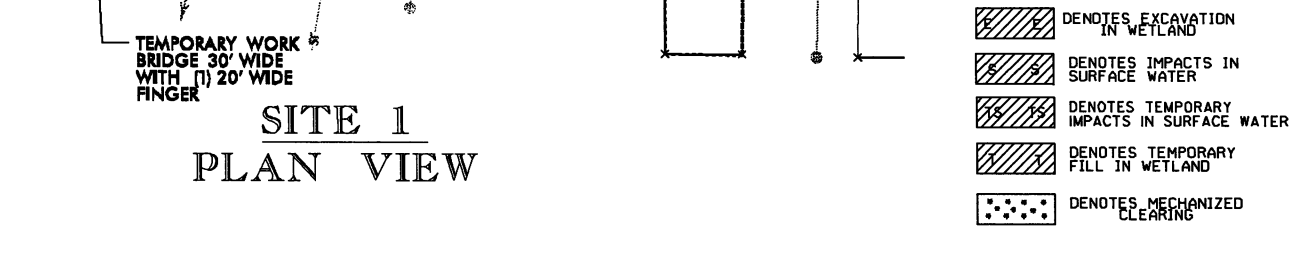
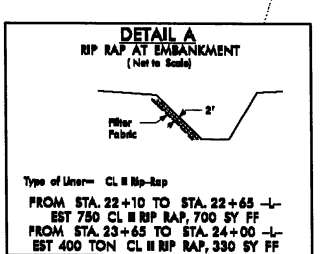
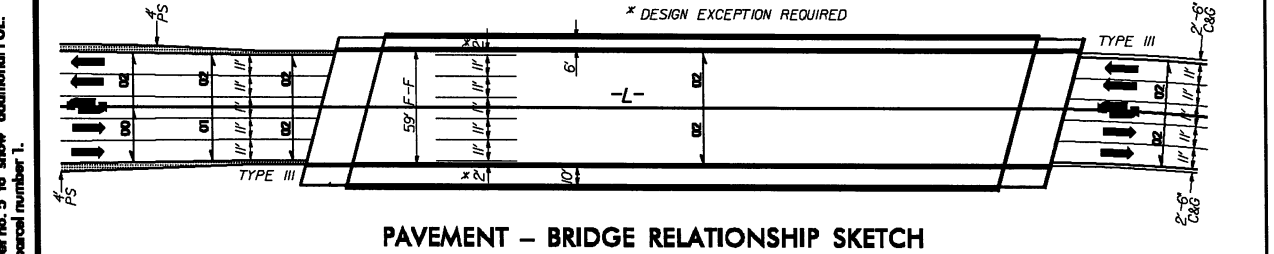
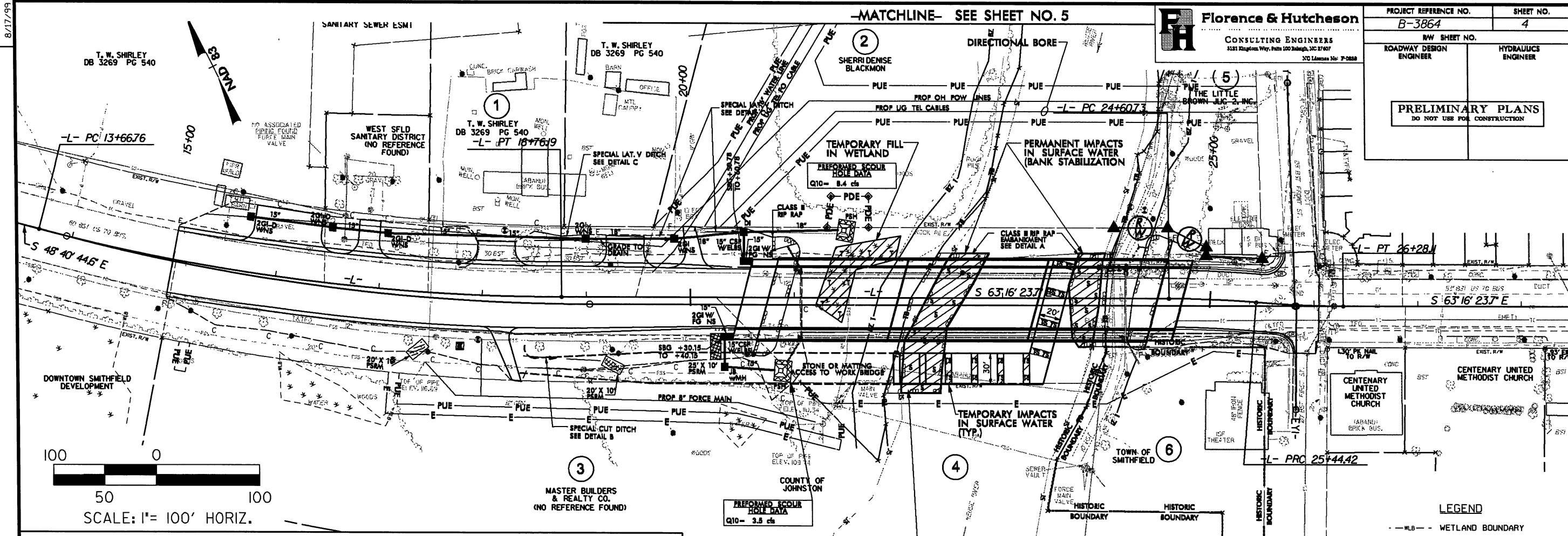


STATE HIGHWAY DESIGN ENGINEER

8/17/99

7-6-11 Added Parcel No. 1 w/PUE & TCE

3-23-11 Revised RWY on Parcel 5 to avoid deck and building.
3-23-11 Revised PUE on Parcel 2 & 5.
4-12-11 Revised PDE on Parcel 2 & added sheet no. 5 to show additional PUE.
2-24-11 Revised PUE on Parcel 2 & added sheet no. 5 to show additional PUE.
2-24-11 Revised PUE on Parcel 2 & added sheet no. 5 to show additional PUE.



Florence & Hutcheson
CONSULTING ENGINEERS
3151 Raleigh Way, Suite 100 Raleigh, NC 27607
NCE License No. 7-1588

PROJECT REFERENCE NO.
B-3864

SHEET NO.
4

R/W SHEET NO.
ROADWAY DESIGN ENGINEER

HYDRAULICS ENGINEER

PRELIMINARY PLANS

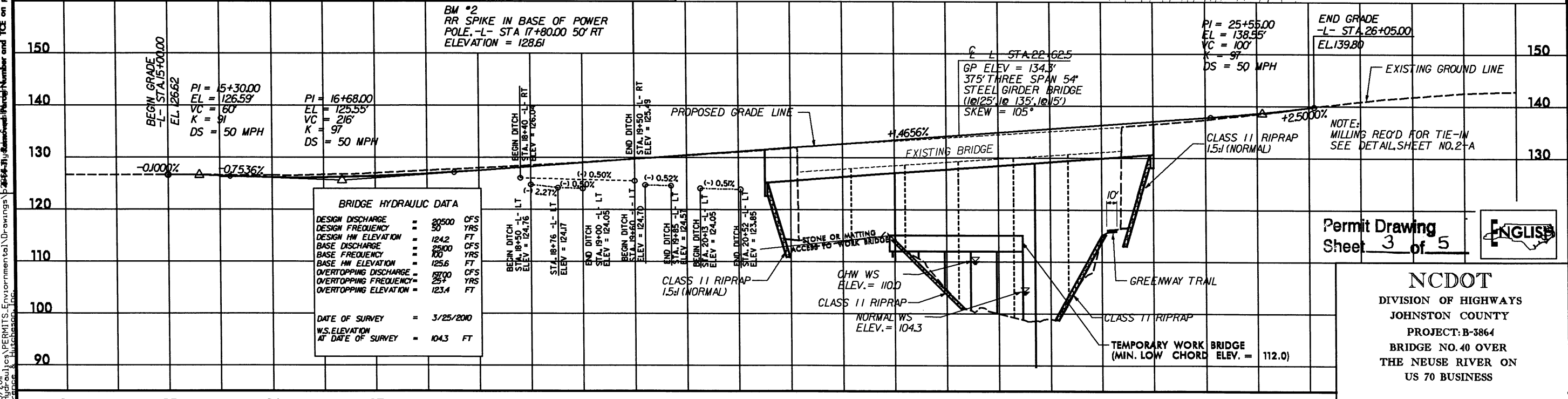
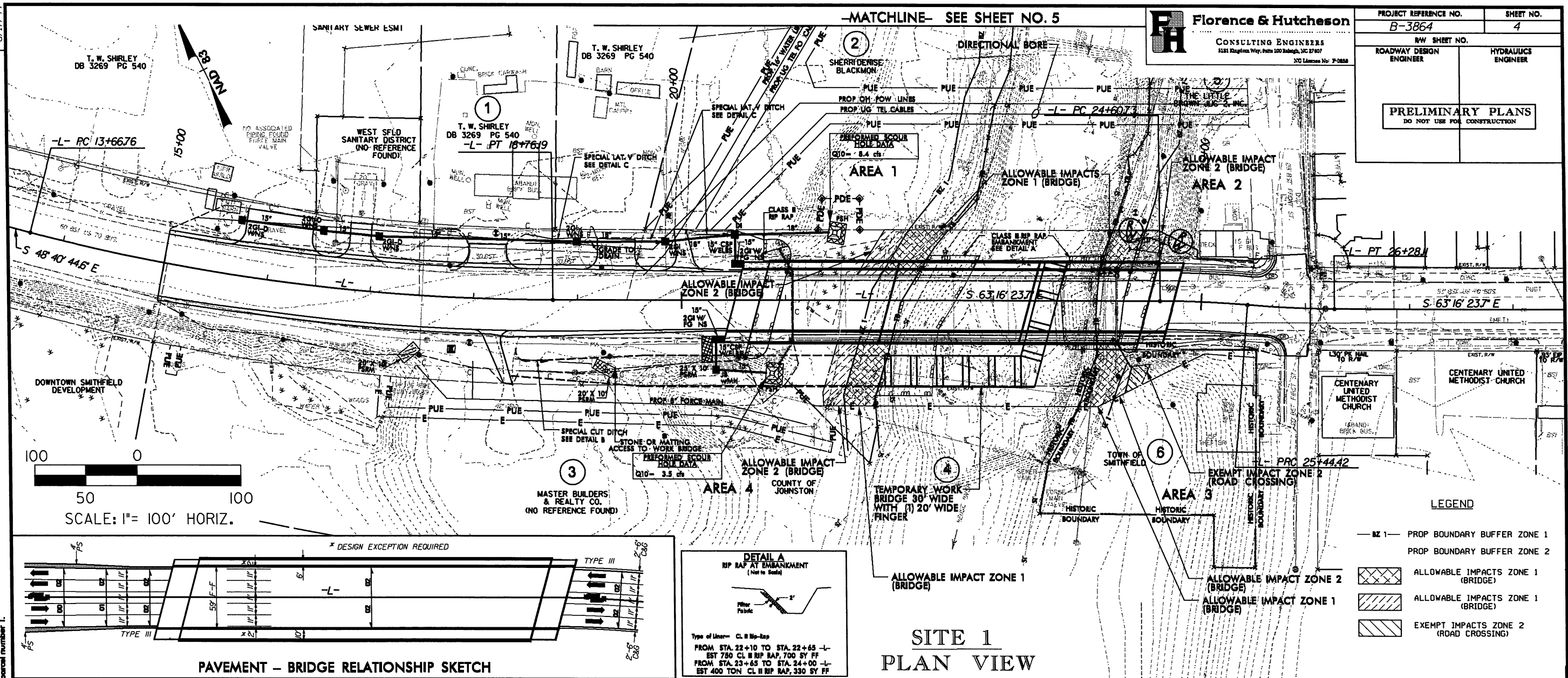
DO NOT USE FOR CONSTRUCTION

Permit Drawing
Sheet 2 of 5

ENGLISH

NCDOT
DIVISION OF HIGHWAYS
JOHNSTON COUNTY
PROJECT: B-3864
BRIDGE NO. 40 OVER
THE NEUSE RIVER ON
US 70 BUSINESS

3-23-11	Revised WW on Parcel 5 to avoid deck and building.
3-23-11	Revised PUE on Parcel 2 & 5.
4-12-11	Revised PDE on Parcel 2 & added sheet no. 5 to show additional PUE.
4-14-11	Revised Through Number and TCE on parcel number 1.



SUMMARY OF AFFECTED PROPERTY OWNERS

[illegible]

NCDOT

DIVISION OF HIGHWAYS

JOHNSTON COUNTY

PROJECT: 33310.1.1 (B-3864)

BRIDGE NO. 40 OVER

THE NEUSE RIVER ON

US 70 BUSINESS

Permit Drawing

SHEET

OF Sheet 4 of 5



General Project Information

Project No.:	33310.1.1	Date:	6-May-11
City/Town:	Smithfield	Designer:	Stacey H. Bailey, PE - Florence & Hutcheson, Inc.
County(ies):	Johnston County	Project Manager:	Stacey H. Bailey, PE - Florence & Hutcheson, Inc.
River Basin(s):	Neuse	CAMA County?	no
Primary Receiving Water:	Neuse River	TVA County?	no
NCDWQ Surface Water Classification for Primary Receiving Water		NCDWQ Stream Index:	27-(41.7)
		Water Supply V (WS-V)	
		Nutrient Sensitive Waters (NSW)	
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?	yes		

Description:

Anadromous Fish Present? yes

Description:

Buffer Rules in Effect? yes

Buffer Rules:

Neuse River Basin

Existing Site

Description of Existing Project Area:

Downtown Smithfield

Average Daily Traffic (existing):

25,000 (2009 ADT)

Existing Cross Section:

Existing 5-lane bridge is 64.3 ft wide with a clear roadway width of 52 ft and sidewalks on both sides.

Surrounding Land Use:

commercial businesses, church, the historic American Legion Hall, and a greenway.

General Comments:

Project Description

Description of Proposed Project:

Replacement of Bridge No. 40 over Neuse River on US 70 Business

Average Daily Traffic (proposed):

45,400 (2035 ADT)

Proposed Cross-Section:

Proposed 5-lane bridge is 80 ft wide with a clear roadway width of 59 ft and 10-ft and 6-ft barrier separated multiuse walk, RT & LT, respectively.

Interchange Modification:

no

Median Type:

N/A

West Terminus:

approximately 576 feet from the west end of the new bridge

East Terminus:

approximately 155 feet from the east end of the new bridge

Project Length (lin. miles/feet):

0.209 mi

Added Impervious Area (ac.):

0.13 Ac

General Comments:

Environmental Summary

[illegible]

General Comments:

Jurisdictional Wetlands		
Station	Type of Impact	Minimization of Impact
L- Sta 21+23 - 21+52	Temporary fill in wetland for construction activities	
L- Sta 17+16 - 17+22 RT	Mechanized clearing for utility construction	
L- Sta 20+27 - 20+71 RT	Temporary excavation and Mechanized clearing for utility construction	
General Comments:	There are wetland areas that will have temporary impacts by the proposed project. Wetland impacts have been reduced to a minimum by avoiding ditching through the wetlands for the project area.	



Additional Comments

The project drainage consists of grated inlets, storm systems, roadside grass swales, and preformed scour holes. Deck drains are not required for the proposed bridge. Stream bank stabilization was added on the banks of the Neuse River under the proposed structure and at the location of the temporary work bridge. The stream bank stabilization is an allowable surface water impact. The proposed project does not impact the Neuse River buffers.

References

B-3864 NEU Narrative
May 18, 2011

Utility Owners:

- Power: Town of Smithfield (contact: Rodney Johnson...919-934-2798)
- Water: Town of Smithfield (contact: Earl Botkin...919-934-2798)
- Telephone: Century Link (contact: Kevin Godwin...910-366-2142)
- CATV: Time Warner (contact: Bob Bennett...252-265-4168)
- Fiber optics phone/communication: BTI (contact: Scott Powell...919-557-1829)
- Sewer (20" force main, 16" force main, 12" force main, 24" gravity sewer): Johnston County (contact: Tim Broome...919-209-8333)
- Sewer (8" force main, 8" gravity sewer): Town of Smithfield (contact: Earl Botkin...919-934-2798)

General Utility Relocation:

All utility lines inside project limits currently within bridge construction limits will be relocated out/away from bridge before project letting to accommodate accelerated construction schedule.

Existing Utilities:

- **Power:** existing power lines run overhead on poles along north side of US-70 and cross the Neuse River on poles mounted on bridge
- **Water:** existing water line runs along north side of US-70 and crosses the Neuse River supported by hangers underneath bridge overhang
- **Telephone:** existing telephone lines run along south side of US-70 and cross the Neuse River supported by hangers underneath bridge overhang
- **Fiber Optics:** existing fiber optics line runs along north side of US-70 and crosses the Neuse River by underground bore adjacent/parallel to bridge
- **CATV:** existing CATV line runs along south side of US-70 and cross the Neuse River overhead on poles spanning the river adjacent/parallel to bridge
- **Sanitary Sewer:**
 - 8" force main runs along north side of US-70 (west of bridge), turns south and travels under bridge with portion of line nearest river in conflict with bridge construction
 - 8" gravity line runs along north side of US-70 (west of bridge) but terminates west of bridge (line flows from east-to-west) and is not in conflict with proposed construction work and will be maintained in its current location
 - 12" force main runs along south side of US-70 (west of bridge) with portion of line nearest river in conflict with bridge construction
 - 20" force main runs along south side of US-70 (west of bridge) with portion of line nearest river in conflict with bridge construction
 - 16" force main runs along east side of river and crosses under bridge but is not in conflict with bridge construction
 - 24" gravity line runs along east side of river and crosses under bridge but is not in conflict with bridge construction

Proposed Power Relocation:

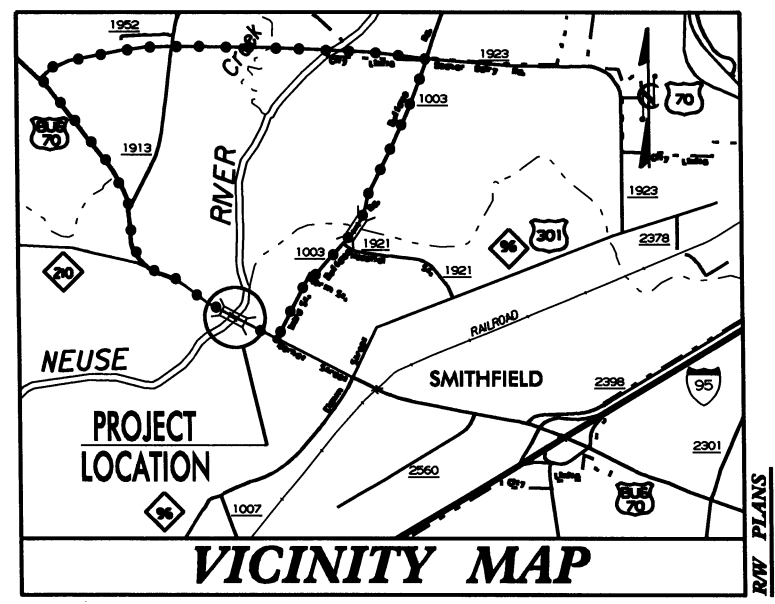
- **Power:** proposed power lines will be relocated north of bridge (200' north of alignment centerline) in PUE that runs parallel to US-70 using overhead lines and poles up to western edge of Brown Jug parking lot, then will travel down pole and be trenched under Brown Jug parking lot and Front Street to tie into existing junction box on east side of Front Street
- **Water:** proposed water line will be relocated north of bridge in PUE that runs diagonally away from US-70 (in northeasterly direction) using a directional drill to cross under the Neuse River, then tie into existing water line under Front Street
- **Telephone:** proposed telephone lines will be relocated north of bridge in same PUE as power line which runs parallel to US-70 using a directional drill to cross under the Neuse River, then will trench under Brown Jug parking lot and Front Street to tie into existing junction box located in southwest quadrant of US-70/Front Street intersection
- **Fiber Optics:** proposed fiber optics line will be relocated north of bridge in same PUE as water line which runs diagonally away from US-70 (in northeasterly direction) using a directional drill to cross under the Neuse River
- **CATV:** proposed CATV lines will be relocated north of bridge in same PUE as power line and will be supported on "joint-use" power poles, then will travel down pole and be trenched under Brown Jug parking lot and Front Street
- **Sanitary Sewer:**
 - 8" force main sewer running along north side of US-70 will be abandoned in area of bridge construction (west of bridge) and will be redirected south under US-70 and tied into proposed 24" sewer line which runs from west-to-east along south side of US-70, then heads south (parallels river)
 - 12" force main sewer running along south side of US-70 will be abandoned in area of bridge construction (west of bridge) and will be redirected south and tied into proposed 24" sewer line which runs from west-to-east along south side of US-70, then heads south (parallels river)
 - 20" force main sewer running along south side of US-70 will be abandoned in area of bridge construction (west of bridge) and will be redirected south and tied into proposed 24" sewer line which runs from west-to-east along south side of US-70, then heads south (parallels river)

Environmental Impacts:

- Buffer Zone impacts result from hand-clearing for overhead power lines in 35' wide PUE north of bridge (each side of river) in Buffer Zones 1 and 2
 - Buffer Zone 1 impact area = 1435 sqft (0.03 acres)
 - Buffer Zone 2 impact area = 2145 sqft (0.05 acres)
 - **Note: the overhead power line crossing through buffer zones is a perpendicular crossing and disturbs approximately 100 linear feet**
- Wetland impacts result from trench excavation on south side of US-70, near west end of bridge
 - Excavation in wetlands = 182 sqft (0.004 acres)

05/08/99
18-MAY-2011 14:30
R:\Utilities\RDY\UT\Proj\NEU permit\B-3864_ewh\NEU_title_sheet_(05-18-11).dgn
\$\$\$\$\$USERNAME\$\$\$\$\$

TIP PROJECT: B-3864



THIS PROJECT IS WITHIN THE MUNICIPAL BOUNDARIES OF SMITHFIELD.
----- DENOTES DETOUR ROUTE

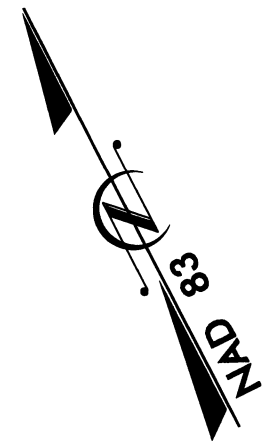
STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

UTILITY CONSTRUCTION PLANS
JOHNSTON COUNTY

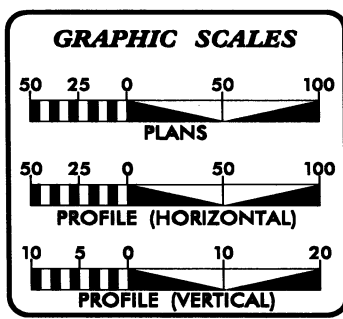
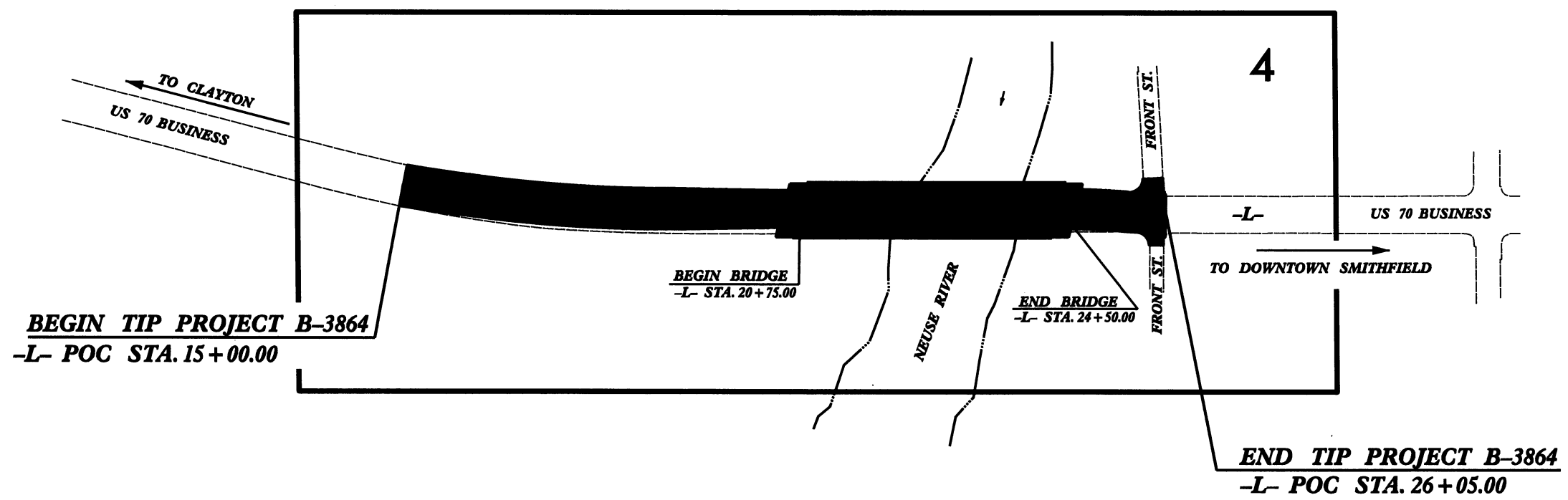
LOCATION: BRIDGE NO. 40 OVER NEUSE RIVER (SMITHFIELD)

TYPE OF WORK: UTILITY RELOCATIONS

T.I.P. NO.	SHEET NO.
B-3864	TITLE

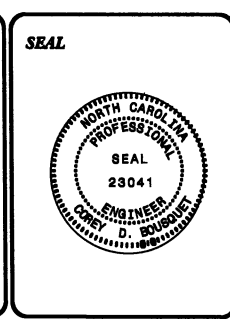


NEU PERMIT PLANS
MAY 18, 2011



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

- UTILITY OWNERS ON PROJECT
- (1) WATER (TOWN OF SMITHFIELD)
 - (2) SANITARY SEWER (JOHNSTON COUNTY)
 - (3) SANITARY SEWER (TOWN OF SMITHFIELD)
 - (4) POWER (TOWN OF SMITHFIELD)
 - (5) TELEPHONE (CENTURYLINK)
 - (6) FIBER OPTICS (BTI)
 - (7) CATV (TIME WARNER)



PREPARED IN THE OFFICE OF:
DIVISION OF HIGHWAYS
UTILITIES ENGINEERING SECTION

1591 MAIL SERVICES CENTER
RALEIGH NC 27699-1591
PHONE (919) 256-4128
FAX (919) 256-4119

Roger Worthington, P.E. UTILITIES SECTION ENGINEER
Corey Bousquet, P.E. UTILITIES SQUAD LEADER PROJECT ENGINEER
Eric Haugaard, P.E. UTILITIES PROJECT DESIGNER

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

Utility Permit Drawing
Sheet 1 of 5

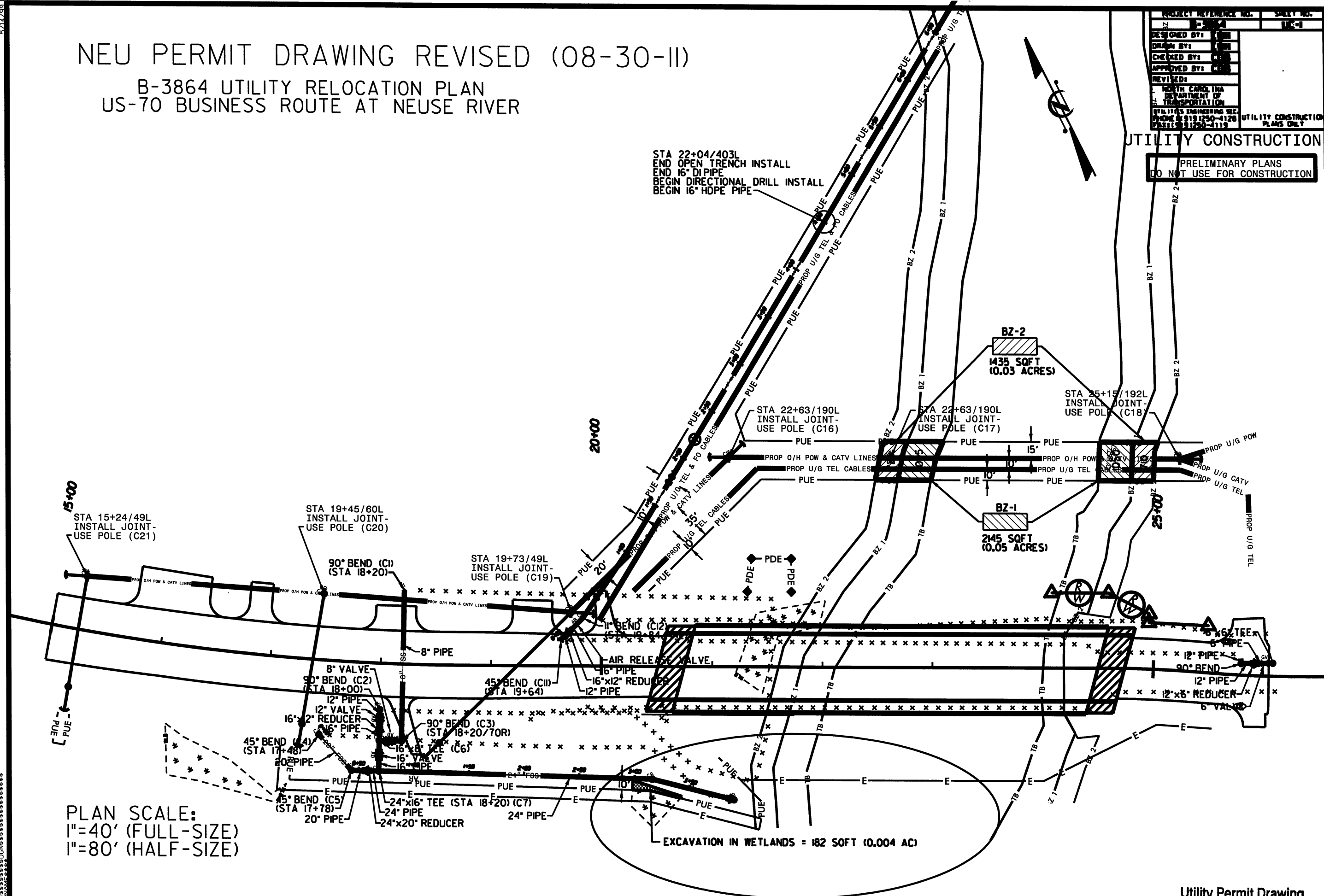
NEU PERMIT DRAWING REVISED (08-30-II)

B-3864 UTILITY RELOCATION PLAN
US-70 BUSINESS ROUTE AT NEUSE RIVER

PROJECT REFERENCE NO.	SHEET NO.
10-10-1	10-1
DESIGNED BY: JHN	
DRAWN BY: JHN	
CHECKED BY: CJS	
APPROVED BY: CJS	
REVISED:	
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION	UTILITY CONSTRUCTION PLANS ONLY
UTILITIES ENGINEERING SEC. PHONE 919-750-4128 FAX 919-750-4119	

UTILITY CONSTRUCTION

PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION



PLAN SCALE:
1"=40' (FULL-SIZE)
1"=80' (HALF-SIZE)

5/14/99
18-MAY-2011 14:28
C:\Program Files\Autodesk\AutoCAD 2011\Projects\B-3864\B-3864.dwg
18-MAY-2011 14:28
C:\Program Files\Autodesk\AutoCAD 2011\Projects\B-3864\B-3864.dwg

NEU PERMIT DRAWING (05-18-II)

B-3864 UTILITY RELOCATION PLAN

US-70 BUSINESS ROUTE AT NEUSE RIVER

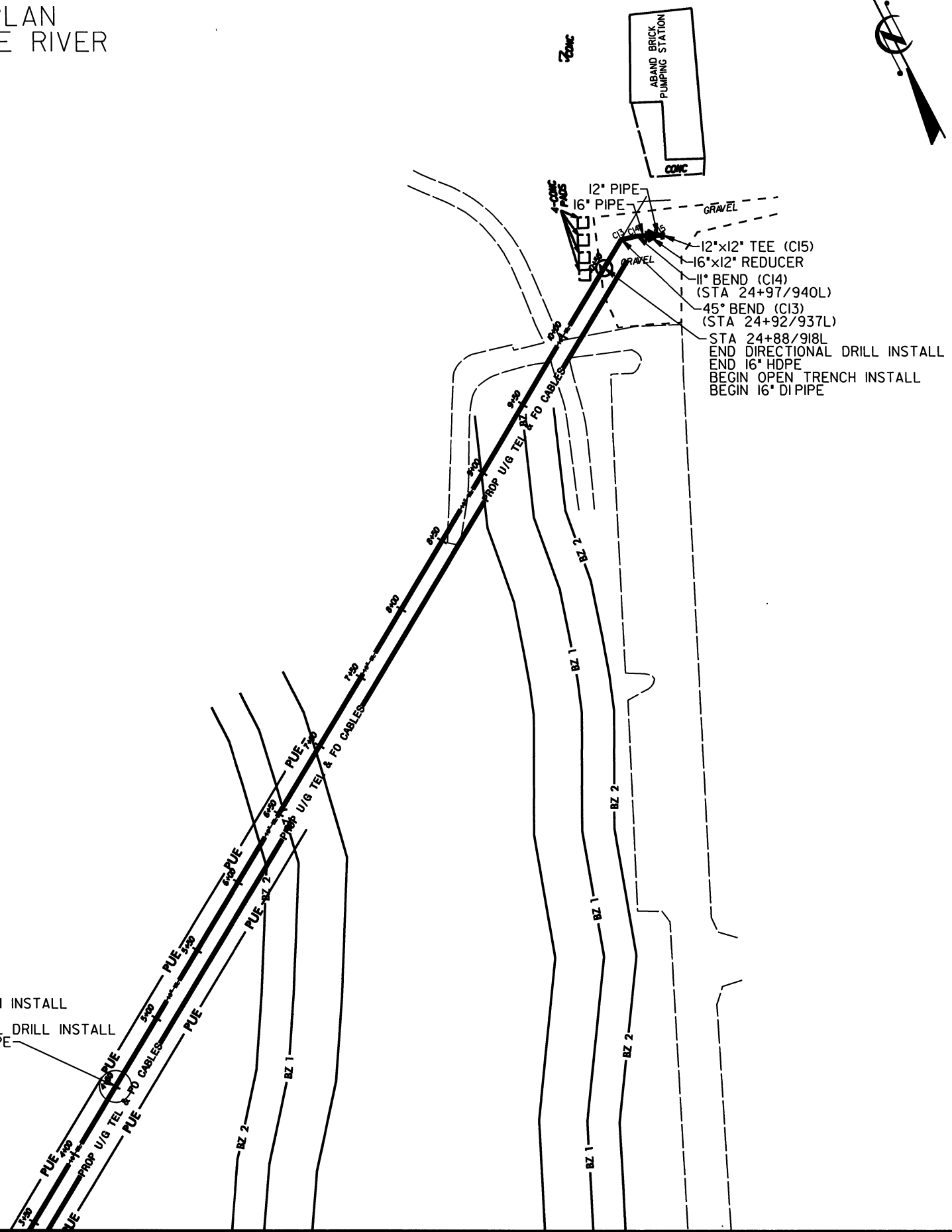
PROJECT REFERENCE NO.	SHEET NO.
B-3864	UC-2
DESIGNED BY: EWH	
DRAWN BY: EWH	
CHECKED BY: CDB	
APPROVED BY: CDB	
REVISED:	
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION	
UTILITIES ENGINEERING SEC. PHONE: (919) 250-4128 FAX: (919) 250-4119	UTILITY CONSTRUCTION PLANS ONLY

UTILITY CONSTRUCTION

PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION

PLAN SCALE:
1"=40' (FULL-SIZE)
1"=80' (HALF-SIZE)

STA 22+04/403L
END OPEN TRENCH INSTALL
END 16" DI PIPE
BEGIN DIRECTIONAL DRILL INSTALL
BEGIN 16" HDPE PIPE



BUFFER IMPACTS SUMMARY

[illegible]

N.C. DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS

JOHNSTON COUNTY
PROJECT: B-3864
BRIDGE NO. 40 OVER NEUSE RIVER
ON US-70
5/18/2011

SHEET 1 OF 1

Rev. May 2006

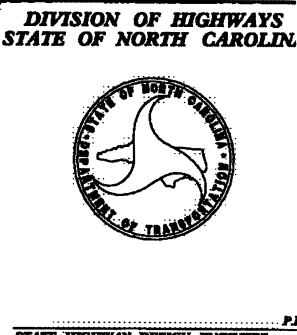
CONTRACT:



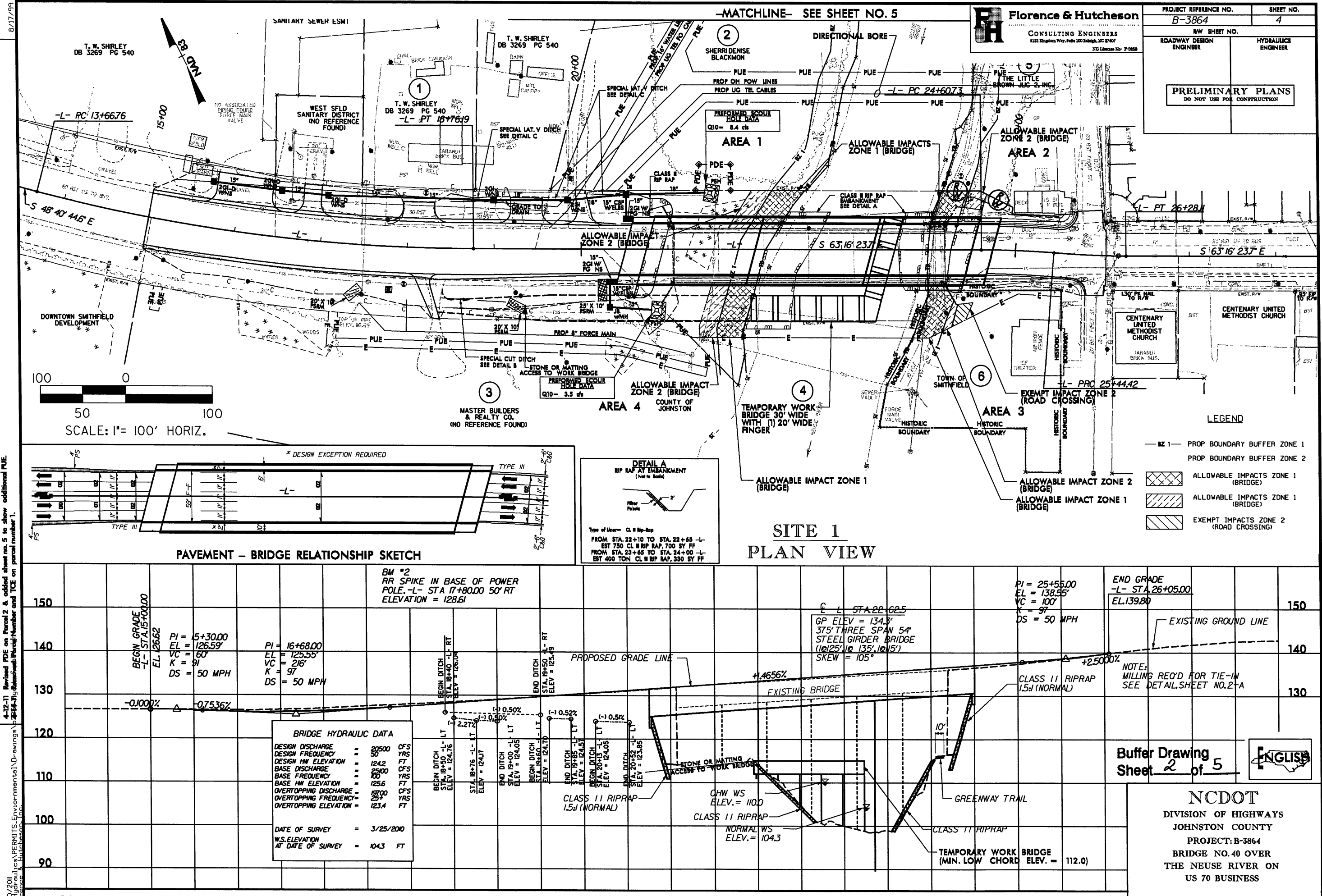
●●●●●●●●●● DENOTES DETOUR ROUTE



PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION



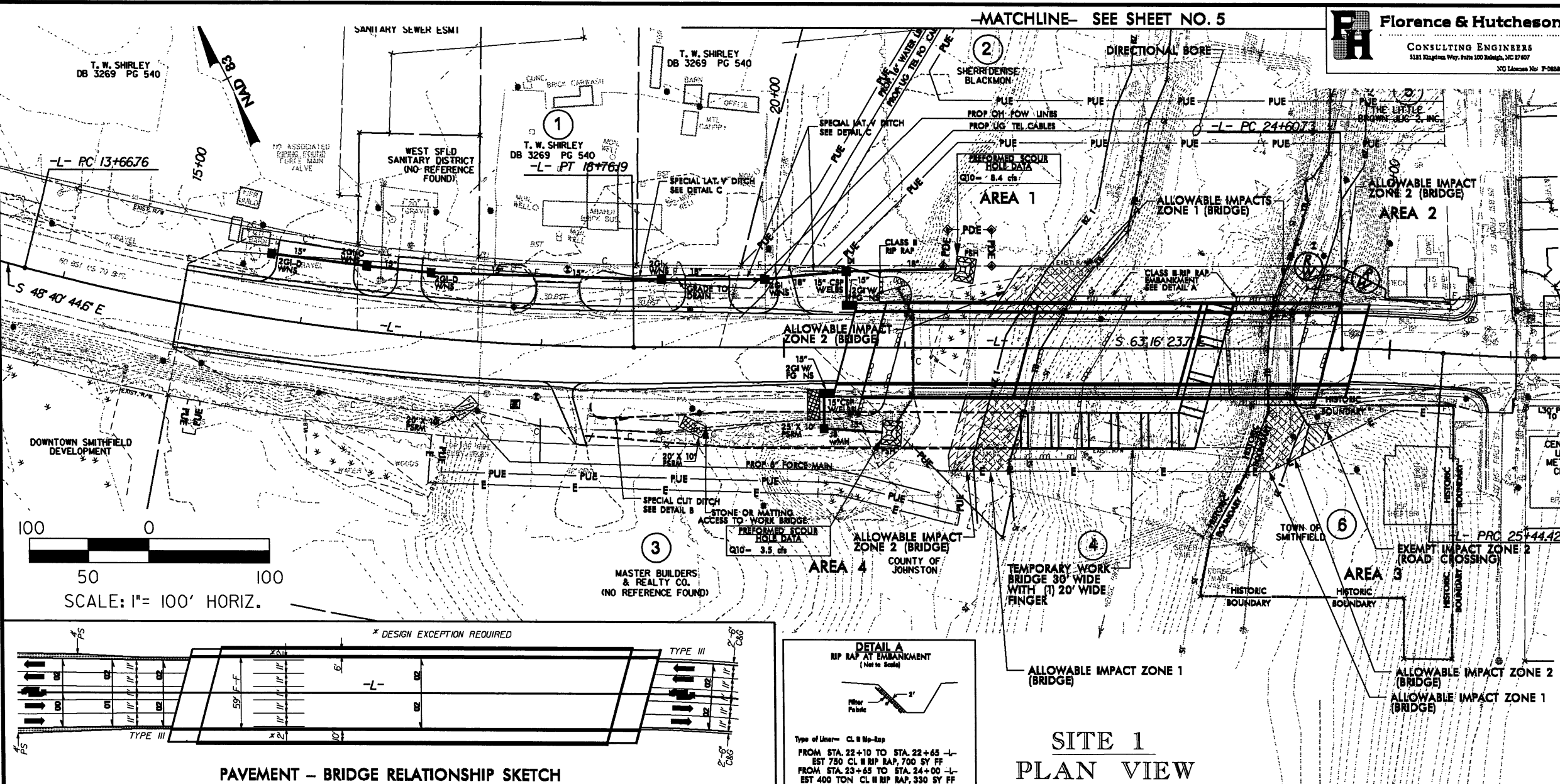
3-23-TI Revised RW on Parcel 5 to eroid deck and building.
3-23-TI Revised PUE on Parcel 2 & 5.
4-12-TI Revised PDE on Parcel 2 & added sheet no. 5 to show additional PUE.
3-24-TI Revised Parcel Number and TCE on parcel number 1.



Buffer Drawing
Sheet 2 of 5

NCDOT
DIVISION OF HIGHWAYS
JOHNSTON COUNTY
PROJECT: B-3864
BRIDGE NO. 40 OVER
THE NEUSE RIVER ON
US 70 BUSINESS

8/17/99
7-9-TI Added Parcel No. 1 W/PUE & TCE
3-23-TI Revised RW on Parcel 5 to avoid deck and building.
3-23-TI Revised PUE on Parcel 2 & 5.
4-12-TI Revised PDE on Parcel 2 & added sheet no. 5 to show additional PUE.
2-24-TI Revised PDE on Parcel 2 and TCE on parcel number 1.
3/20/2001 JCS/PERMITS/Environmental Drawings
Florence & Hutcheson, Inc.

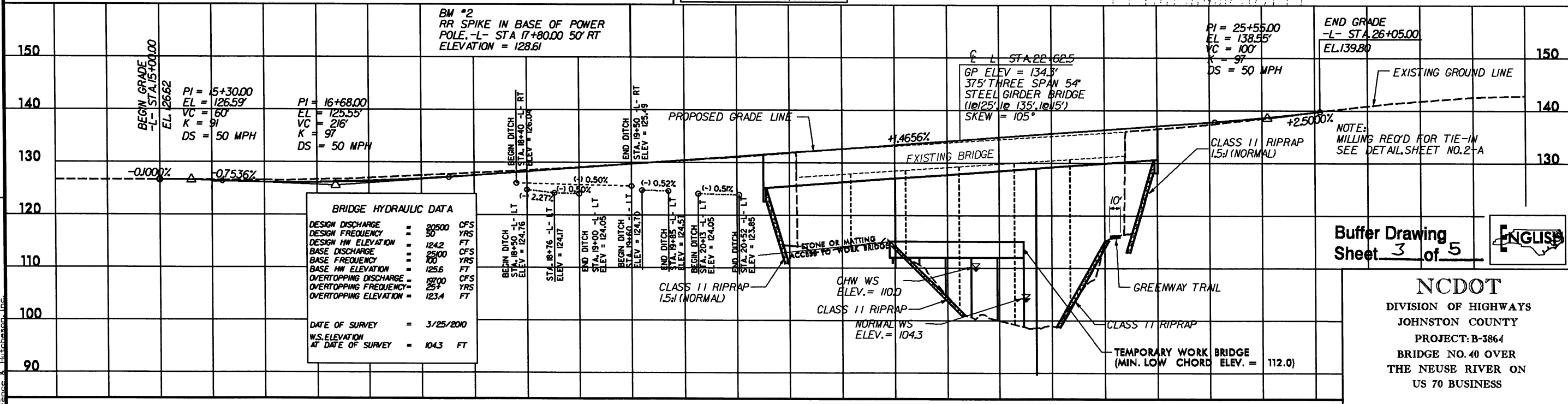
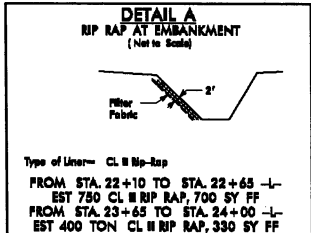
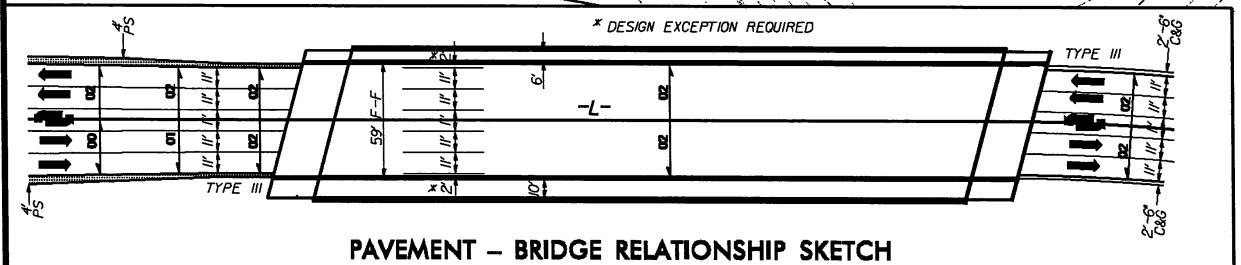


Florence & Hutcheson
CONSULTING ENGINEERS
1181 Ragland Way, Suite 100 Raleigh, NC 27607
NC License No. 7-5888

PROJECT REFERENCE NO.	SHEET NO.
B-3864	4

R/W SHEET NO.	HYDRAULICS ENGINEER
ROADWAY DESIGN ENGINEER	

PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION



BUFFER IMPACTS SUMMARY

TOTAL:	6394	3006	9400	0	346	346
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Rev. May 2006

WETLANDS IN BUFFER IMPACTS SUMMARY

WETLANDS IN BUFFERS					
SITE NO.	STATION (FROM/TO)	ZONE 1 (ft²)	ZONE 2 (ft²)		
1	21+72 - 21+97 (LT)		427		
TOTAL:		0	427		

Buffer Drawing
Sheet 5 of 5

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

PROJECT: 33310.1.1 (B-3864)
JOHNSTON COUNTY
BIRDGE #40 ON US 70 BUSINESS
4/13/2011

SHEET OF

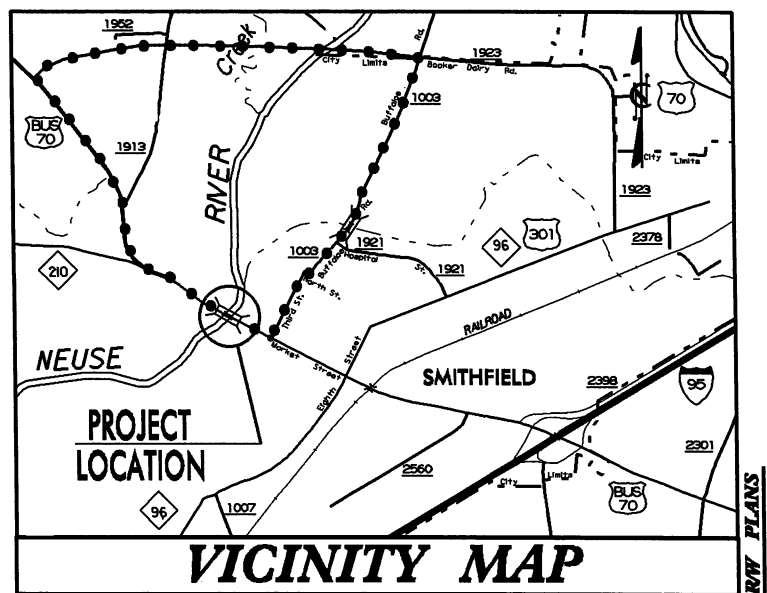
09/08/99

25-APR-2011 10:42
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TIP PROJECT: B-3864

CONTRACT:

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



VICINITY MAP

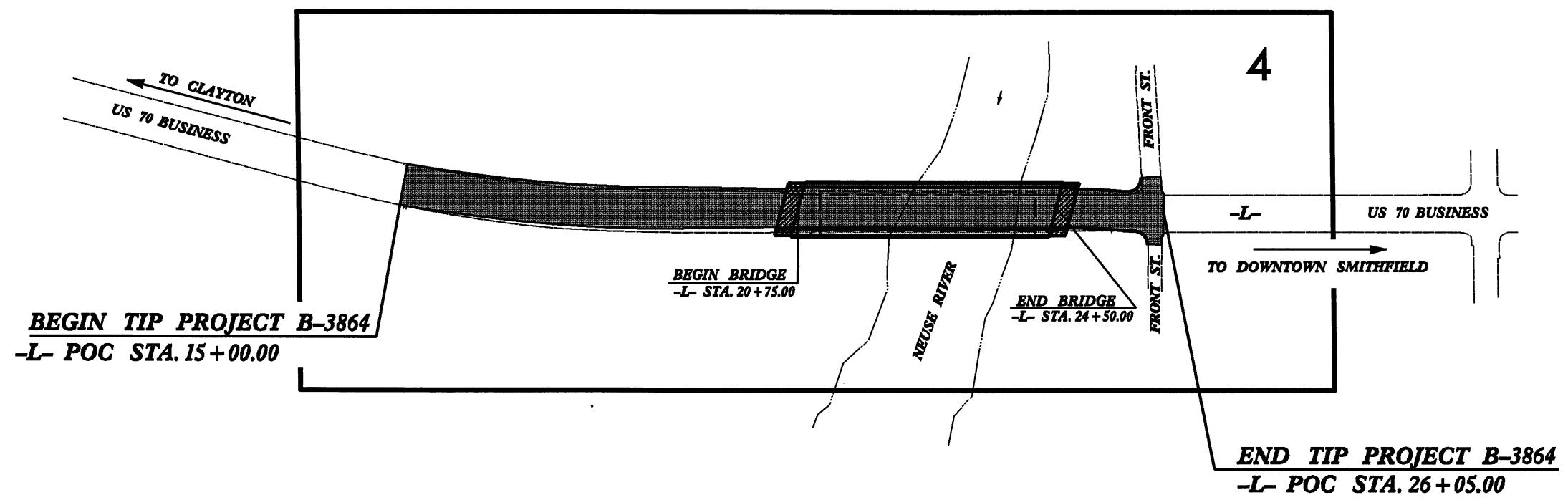
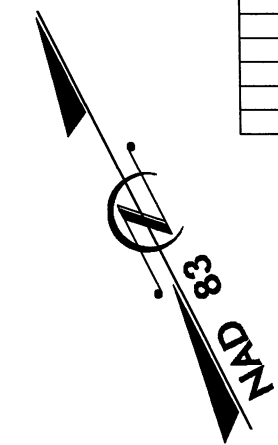
THIS PROJECT IS WITHIN THE MUNICIPAL BOUNDARIES OF SMITHFIELD.
--- DENOTES DETOUR ROUTE

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS
JOHNSTON COUNTY

LOCATION: BRIDGE NO. 40 OVER NEUSE RIVER
ON US 70 BUSINESS

TYPE OF WORK: GRADING, PAVING, DRAINAGE
& STRUCTURE

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	B-3864	1	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	
33310.1.1	BRSTP-70B(3)	P.E.	
33310.2.1	BRSTP-70B(3)	RW & UTIL	

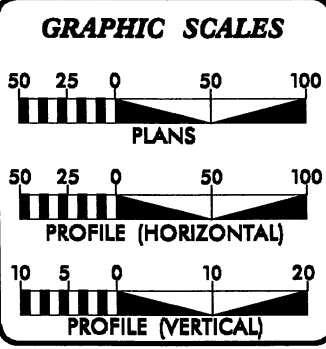


** Design Exception Requested for Bridge Width and Superelevation.

NCDOT CONTACT: K. ZAK HAMIDI, P.E.
ROADWAY DESIGN - ENGINEERING COORDINATION

CLEARING ON THIS PROJECT SHALL BE PERFORMED
TO THE LIMITS ESTABLISHED BY METHOD III.

PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION



DESIGN DATA	
ADT 2012	= 27,400
ADT 2032	= 43,100
DHV	= 10 %
D	= 55 %
T	= 3 % *
V	= 50 MPH **
*(TTST 1% + DUAL 2%)	
REGIONAL TIER	
FUNC. CLASS =	
PRINCIPAL ARTERIAL	

PROJECT LENGTH	
LENGTH ROADWAY TIP PROJECT B-3864	= 0.138 MI.
LENGTH STRUCTURES TIP PROJECT B-3864	= 0.071 MI.
TOTAL LENGTH OF TIP PROJECT B-3864	= 0.209 MI.

Prepared In the Office of:	
FOR NORTH CAROLINA DEPARTMENT OF TRANSPORTATION	
2012 STANDARD SPECIFICATIONS	
RIGHT OF WAY DATE:	DAVID C. WALLER, P.E. PROJECT ENGINEER
FEBRUARY 18, 2011	
LETTING DATE:	MICHAEL A. YOUNG, P.E. PROJECT DESIGN ENGINEER
MARCH 20, 2012	

HYDRAULICS ENGINEER	
SIGNATURE:	P.E.
ROADWAY DESIGN ENGINEER	
SIGNATURE:	P.E.

DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA

STATE HIGHWAY DESIGN ENGINEER P.E.

8/17/99

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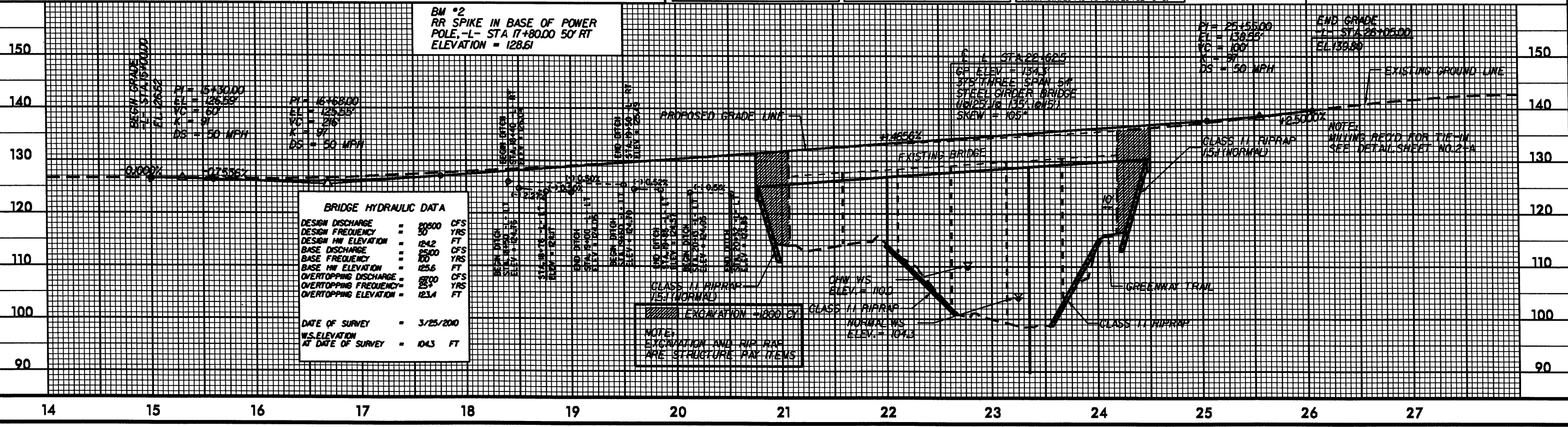
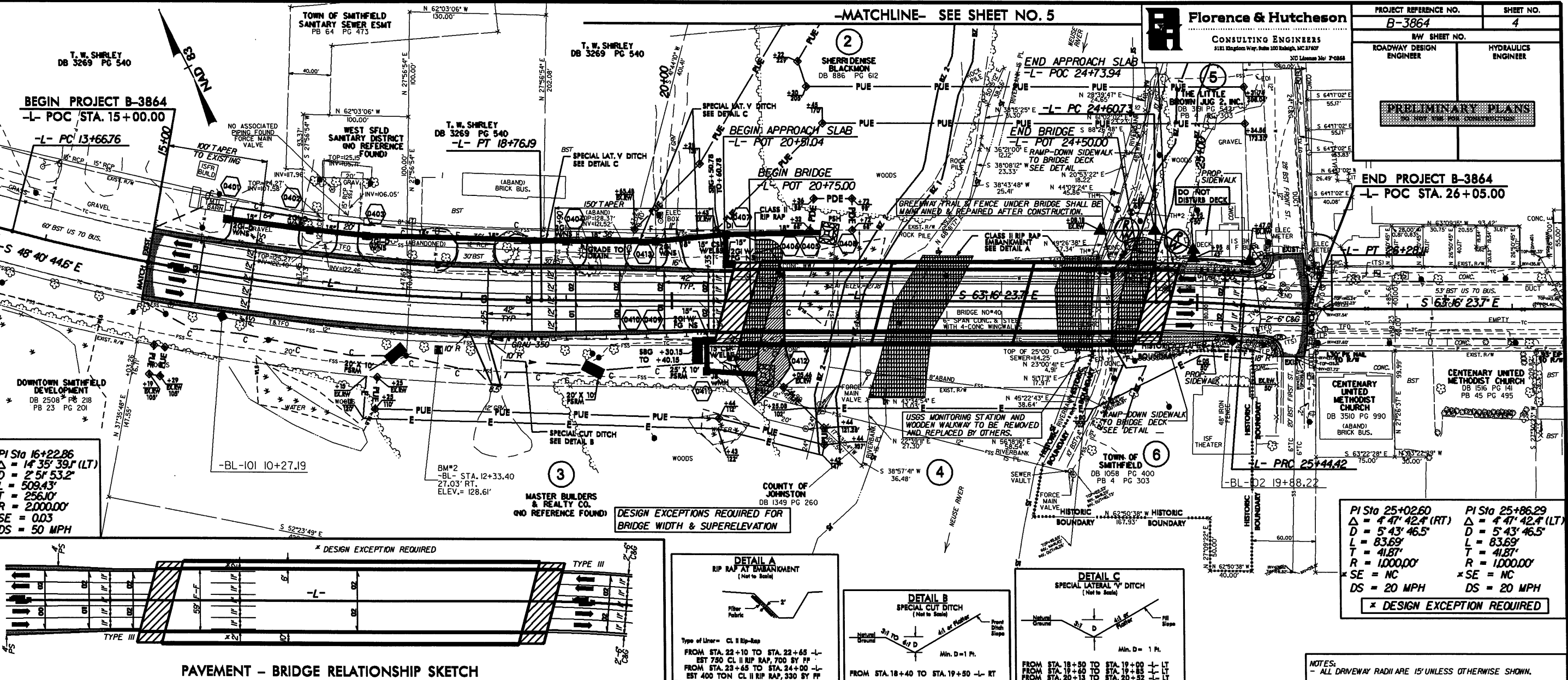
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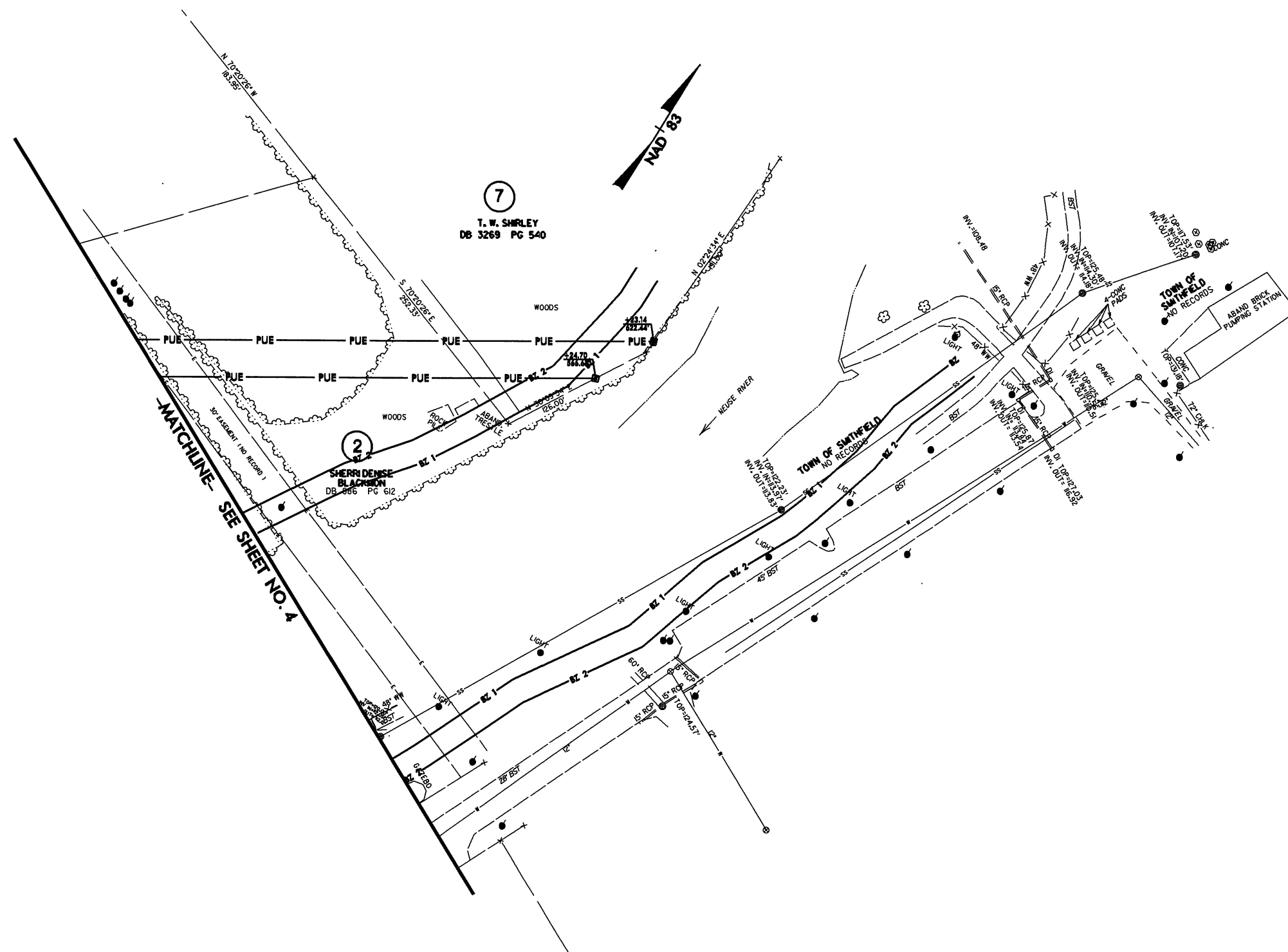
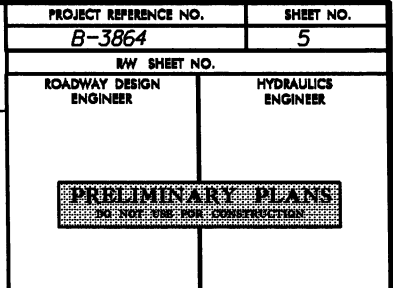
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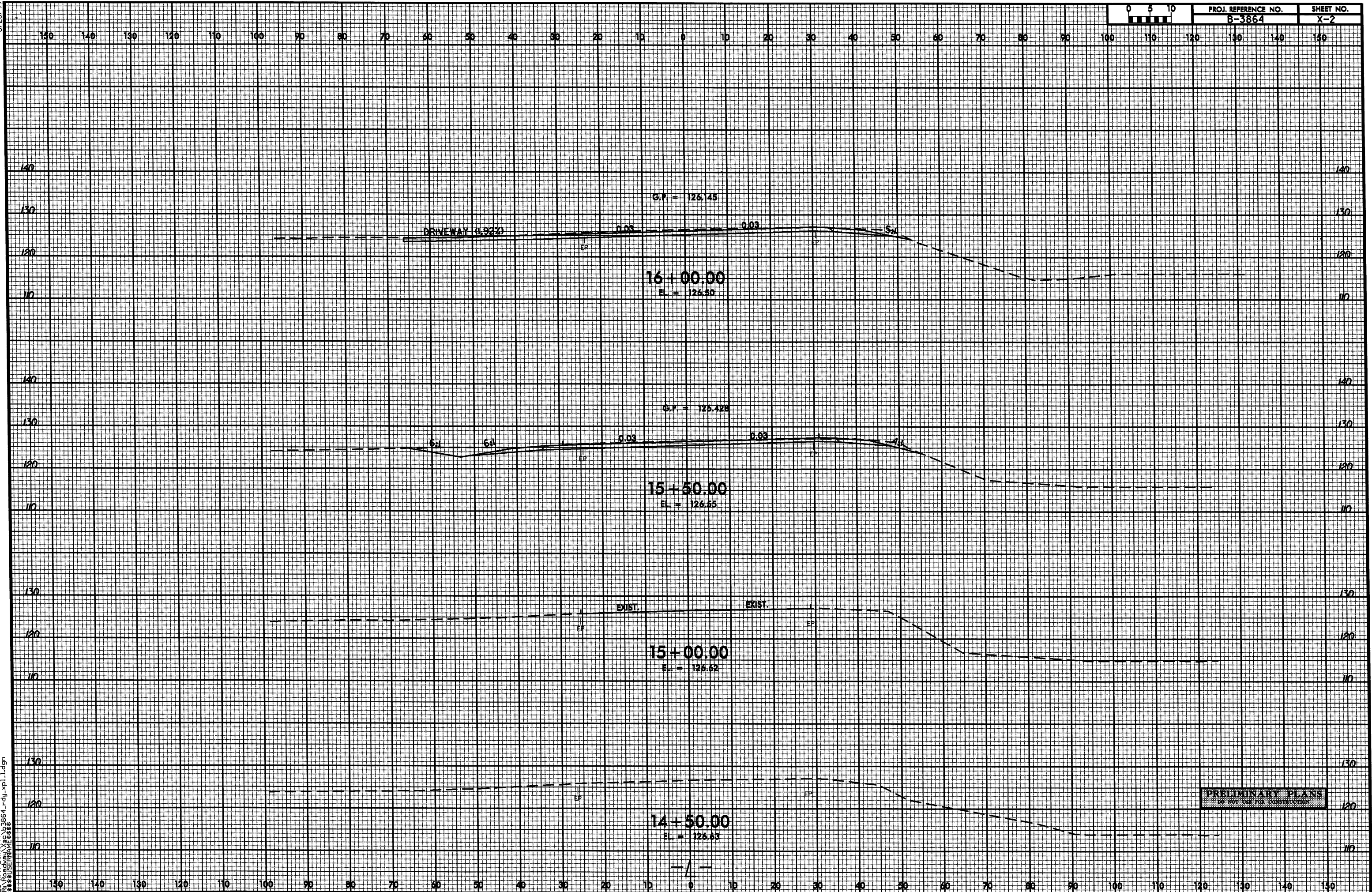
REVISED

REVISED

REVISED

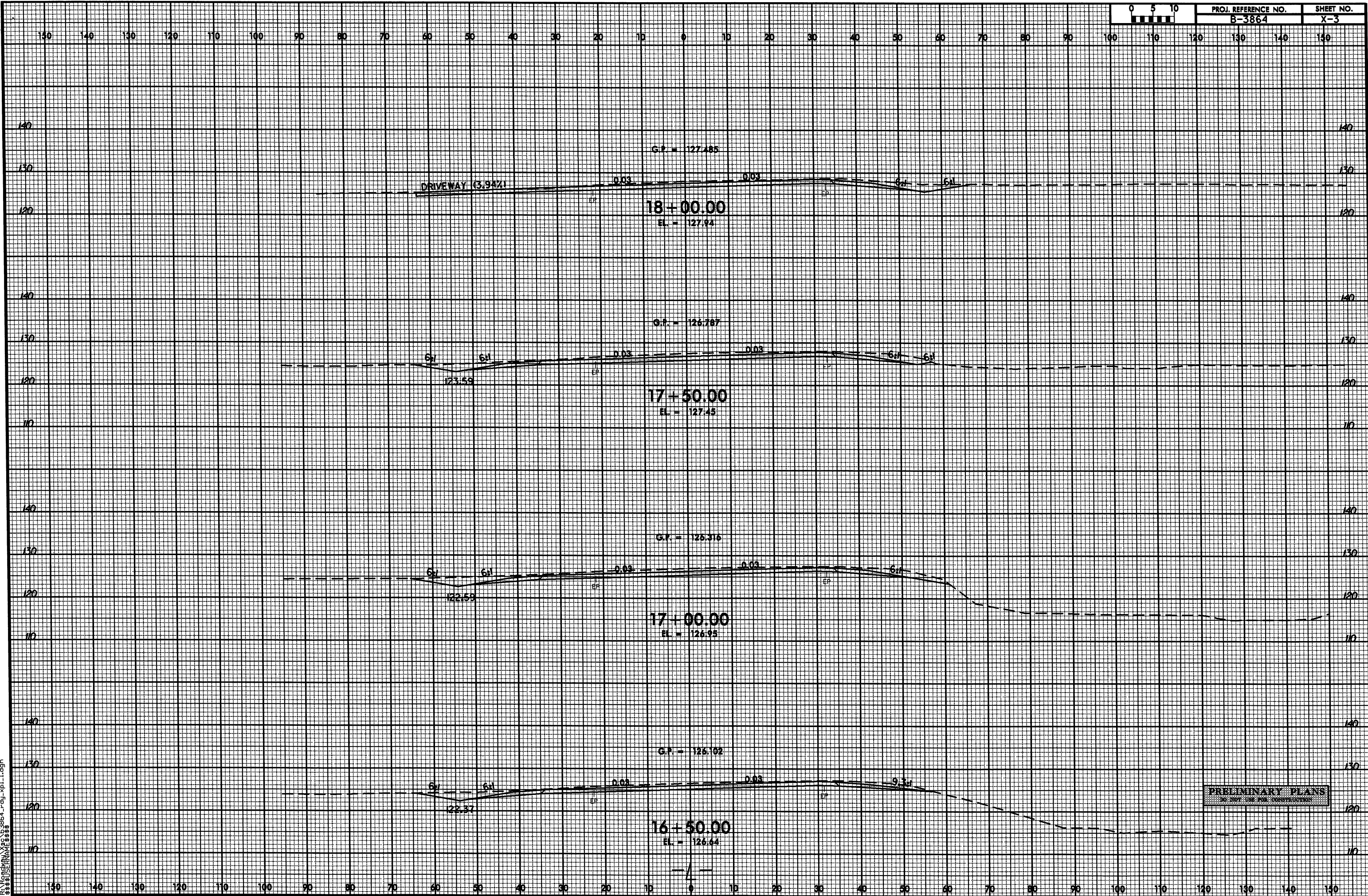






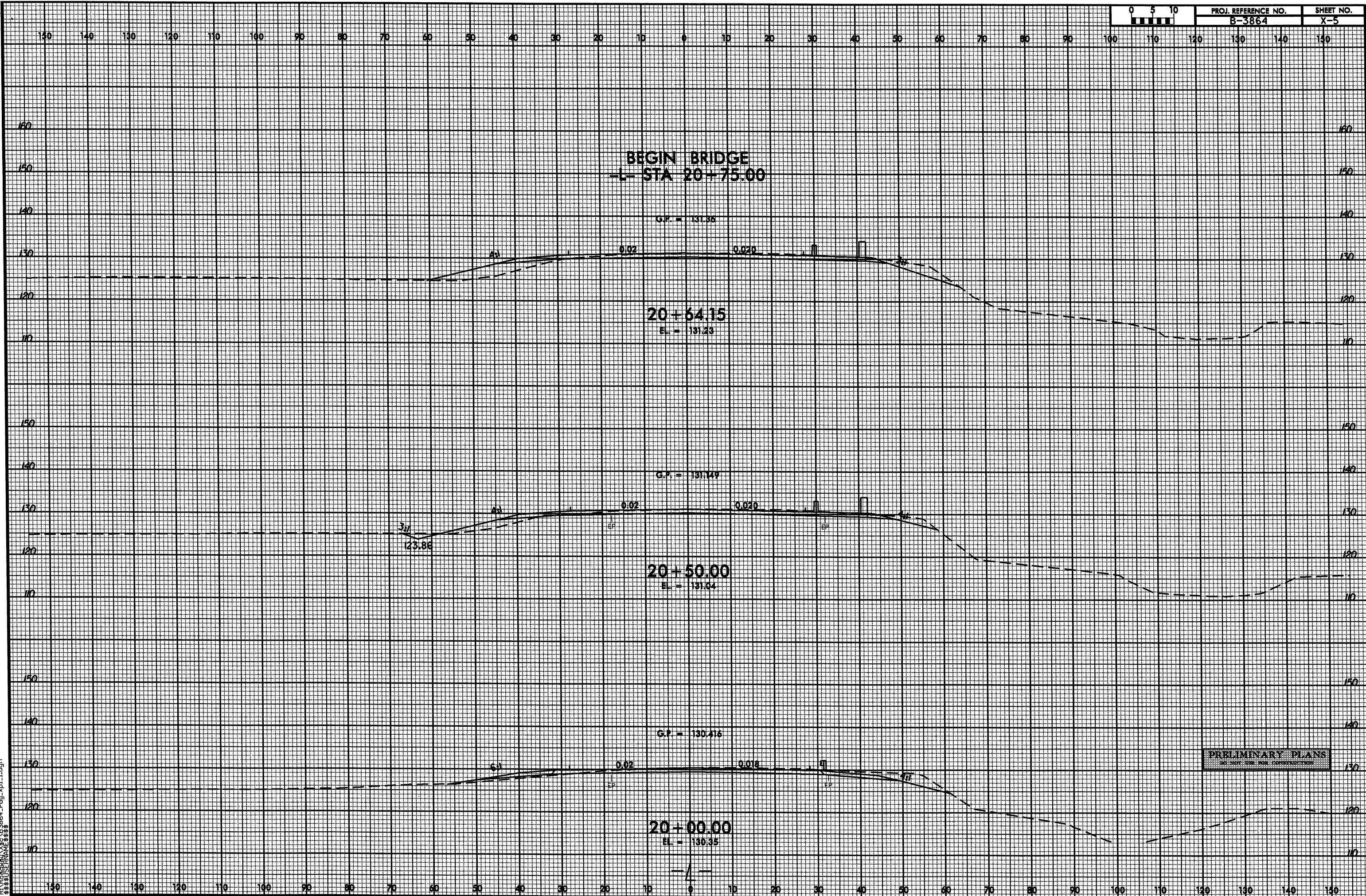
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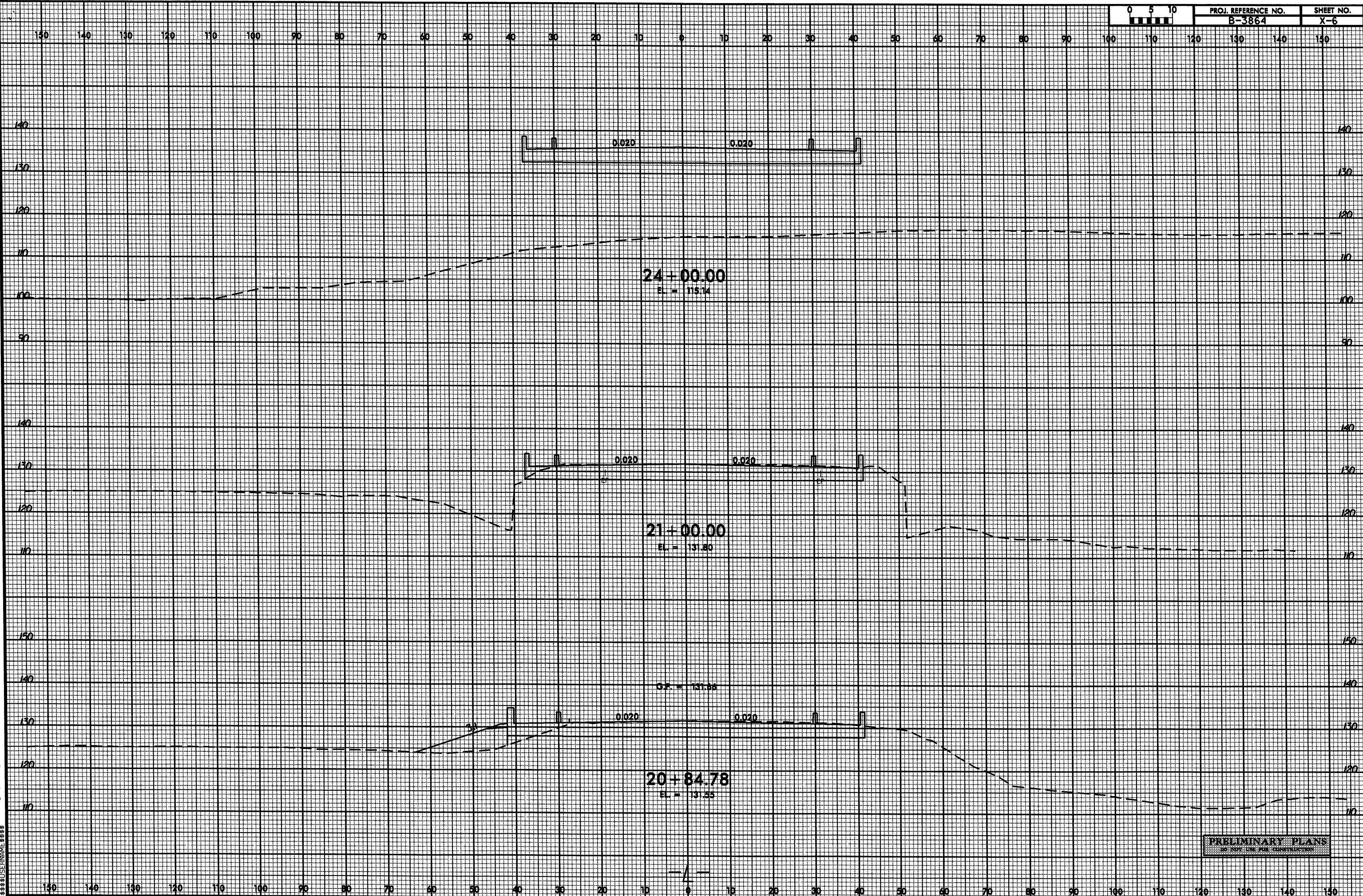
8/23/99

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8/23/99

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3864

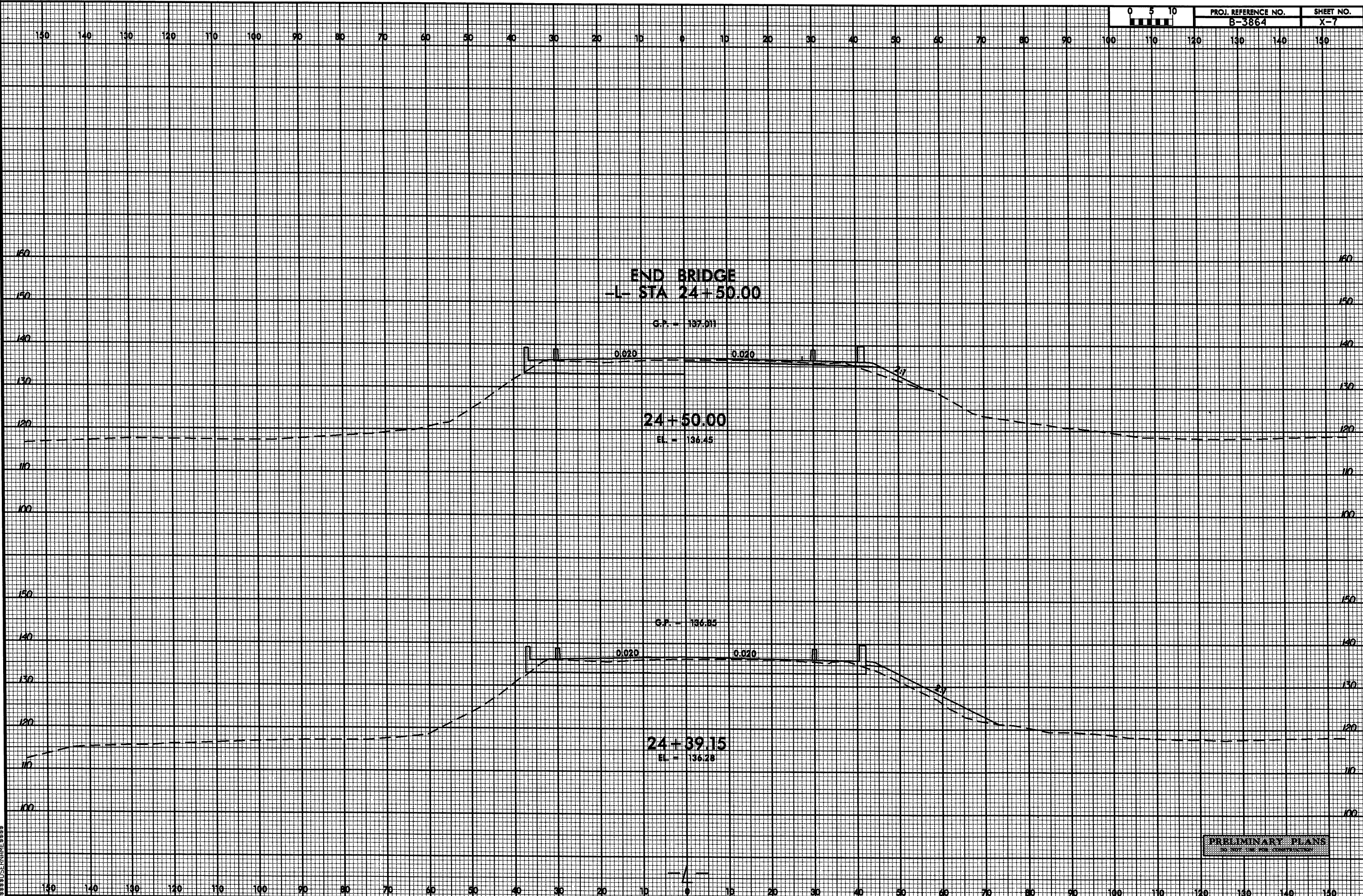


0 5 10	PROJ. REFERENCE NO. B-3864	SHEET NO. X-6
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PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION

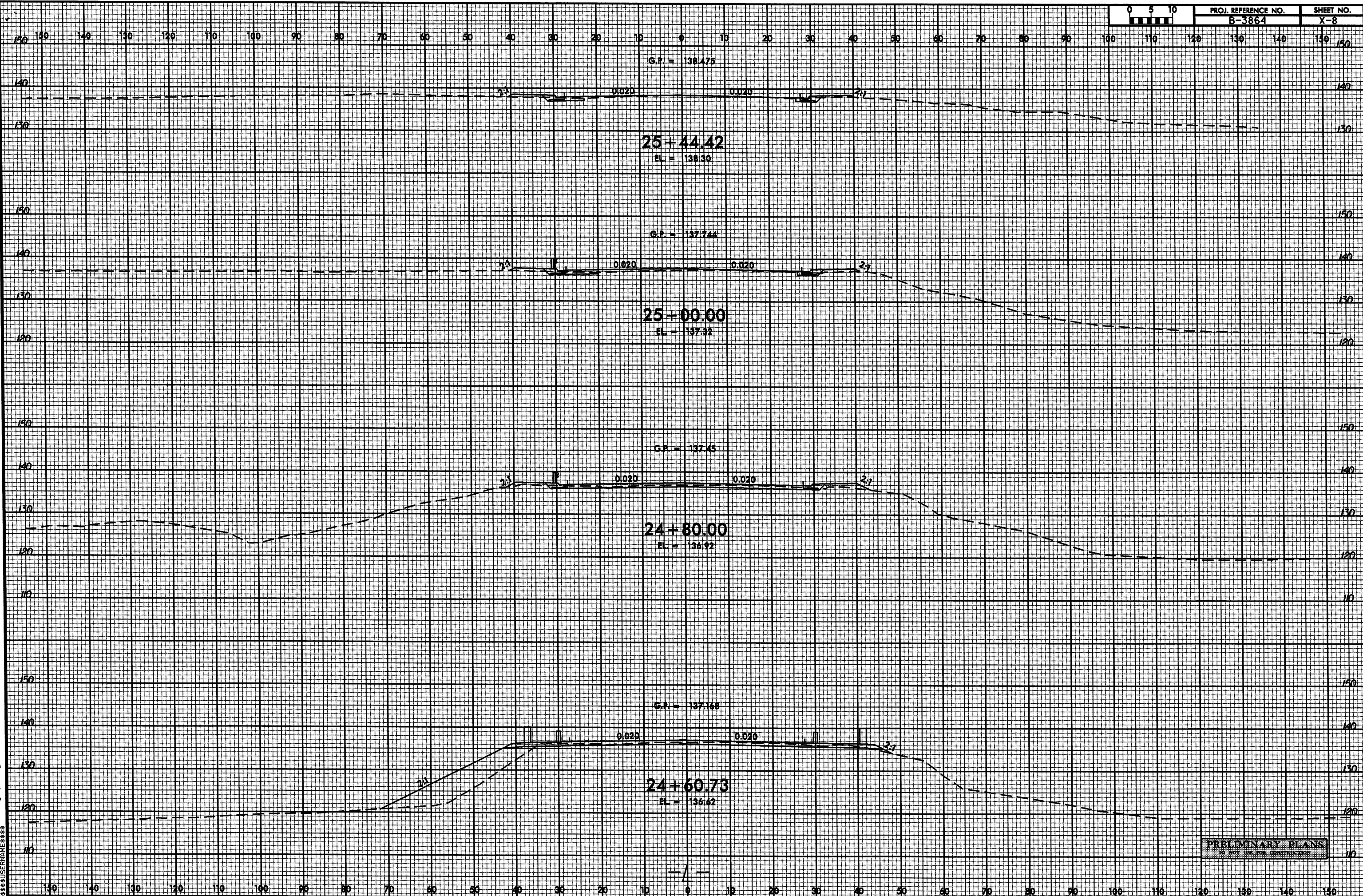
8/23/99

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8/23/99

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8/23/99

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