



STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION

BEVERLY EAVES PERDUE
GOVERNOR

EUGENE A. CONTI
SECRETARY

December 1, 2009

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 404 Nationwide Permit 23, Section 401 Water Quality Certification, and Tar-Pamlico Riparian Buffer Authorization** for the proposed replacement of Bridge No. 219 on SR 1726 (Portertown Rd.) over Hardee Creek, Pitt County. TIP No. B-4238; Federal Aid Project No. BRSTP-1726(1); State Project No. 8.2222301; Debit \$240.00 from WBS 33581.1.1 .

Please find enclosed the PCN form, permit drawings, and half-size plan sheets for the above referenced project. A Programmatic Categorical Exclusion (PCE) was completed for this project in August 2008, 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. 219 on SR 1726 over Hardee Creek in Pitt County. The project involves replacement of the existing 52-foot structure with a 135-foot bridge in approximately the same location. There will be 0.09 acre of permanent impacts to riparian wetlands resulting from fill and excavation on this project, as well as 8,997 sq. ft. of riparian buffer impacts.

The let date for this project is April 20, 2010; however, the let date may advance as additional funds become available.

Regulatory approvals

Section 404 Permit: All aspects of this project are being processed by the Federal Highway Administration as a "Categorical Exclusion" in accordance with 23 CFR 771.115(b). The NCDOT requests that these activities be authorized by a Nationwide Permit 23 (72 CFR; 11092-11198, March 12, 2007).

MAILING ADDRESS:
NC DEPARTMENT OF TRANSPORTATION
PROJECT DEVELOPMENT AND ENVIRONMENTAL ANALYSIS
1548 MAIL SERVICE CENTER
RALEIGH NC 27699-1548

TELEPHONE: 919-431-2000
FAX: 919-431-2001

WEBSITE: WWW.NCDOT.ORG

LOCATION:
4701 Atlantic Ave.
Suite 116
Raleigh, NC 27604

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 33581.1.1 is hereby given.

Tar-Pamlico Riparian 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 application will be posted on the NCDOT website at: <http://www.ncdot.org/doh/preconstruct/pe/neu/permit.html>

Thank you for your time and assistance with this project. Please contact Amy James at aejames@ncdot.gov or (919) 431-6756 if you have any questions or need additional information.

Sincerely,



for

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

CC:

W/attachment

Mr. Brian Wrenn, NCDWQ (5 copies)

W/o attachment (see website for attachments)

Dr. David Chang, P.E., Hydraulics

Mr. Jay Bennett, P.E., Roadway Design

Mr. Majed Alghandour, P. E., Programming and TIP

Mr. Art McMillan, P.E., Highway Design

Mr. Scott McLendon, USACE, Wilmington

Mr. Travis Wilson, NCWRC

Mr. Gary Jordan, USFWS

Mr. Ron Sechler, NMFS

Ms. Anne Deaton, NCDMF

Ms. Natalie Lockhart, PDEA

Mr. Mark Staley, Roadside Environmental

Mr. Greg Perfetti, P.E., Structure Design

Mr. Victor Barbour, P.E., Project Services Unit

Mr. C. E. Lassiter, P.E., Div. 2 Engineer

Mr. Jay Johnson, Div. 2 Environmental Officer



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

Pre-Construction Notification (PCN) Form

A. Applicant Information

1. Processing

| | | |
|--|---|--|
| 1a. Type(s) of approval sought from the Corps: | <input checked="" type="checkbox"/> Section 404 Permit | <input type="checkbox"/> Section 10 Permit |
| 1b. Specify Nationwide Permit (NWP) number: 23 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 type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| 1f. Is payment into a mitigation bank or in-lieu fee program proposed for mitigation of impacts? If so, attach the acceptance letter from mitigation bank or in-lieu fee program. | | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| 1g. Is the project located in any of NC's twenty coastal counties. If yes, answer 1h below. | | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| 1h. Is the project located within a NC DCM Area of Environmental Concern (AEC)? | | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |

2. Project Information

| | |
|---|---|
| 2a. Name of project: | Replacement of Bridge no. 219 over Hardee Creek on SR 1726 (Portertown Rd.) |
| 2b. County: | Pitt |
| 2c. Nearest municipality / town: | Greenville |
| 2d. Subdivision name: | <i>not applicable</i> |
| 2e. NCDOT only, T.I.P. or state project no: | B-4238 |

3. Owner Information

| | |
|--|---|
| 3a. Name(s) on Recorded Deed: | North Carolina Department of Transportation |
| 3b. Deed Book and Page No. | <i>not applicable</i> |
| 3c. Responsible Party (for LLC if applicable): | <i>not applicable</i> |
| 3d. Street address: | 1598 Mail Service Center |
| 3e. City, state, zip: | Raleigh, NC 27699-1598 |
| 3f. Telephone no.: | (919) 431-6756 |
| 3g. Fax no.: | (919) 431-2002 |
| 3h. Email address: | aejames@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: 35.576347 (DD.DDDDDD) Longitude: - 77.323389 (-DD.DDDDDD) |
| 1c. Property size: | 1.2 acres (estimated from plans) |
| 2. Surface Waters | |
| 2a. Name of nearest body of water (stream, river, etc.) to proposed project: | Hardee Creek |
| 2b. Water Quality Classification of nearest receiving water: | C 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: Residential and urban development, with forestland along stream corridors. | |
| 3b. List the total estimated acreage of all existing wetlands on the property: 2.5 acres (using NRTR study area) | |
| 3c. List the total estimated linear feet of all existing streams (intermittent and perennial) on the property: 550 linear feet (using NRTR study area) | |
| 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 52-foot bridge with a 135-foot, 3-span, 21" cored slab bridge on the existing alignment with an off-site detour. In addition, 8" water, 4" water, and 4" gas lines will be relocated from under the roadway to the southeast side via directional bore and power poles/lines will need to be relocated to 30' from bridge. Standard road building equipment, such as trucks, dozers, and cranes will be used. | |
| 4. Jurisdictional Determinations | |
| 4a. Have jurisdictional wetland or stream determinations by the Corps or State been requested or obtained for this property / project (including all prior phases) in the past? Comments: Action ID SAW 200310732 | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown |
| 4b. If the Corps made the jurisdictional determination, what type of determination was made? | <input type="checkbox"/> Preliminary <input checked="" type="checkbox"/> Final |
| 4c. If yes, who delineated the jurisdictional areas? Name (if known): Phil May | Agency/Consultant Company: HDR Other: |
| 4d. If yes, list the dates of the Corps jurisdictional determinations or State determinations and attach documentation. The JD verification was issued on 7/3/03; NCDOT has no reason to believe that the wetland boundary has changed. | |
| 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):

- Wetlands Streams - tributaries Buffers
 Open Waters Pond Construction

2. Wetland Impacts

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

| 2a. Wetland impact number – Permanent (P) or Temporary (T) | 2b. Type of impact | 2c. Type of wetland (if known) | 2d. Forested | 2e. Type of jurisdiction (Corps - 404, 10 DWQ – non-404, other) | 2f. Area of impact (acres) |
|---|-----------------------|-----------------------------------|--|---|---------------------------------|
| Site 1 <input checked="" type="checkbox"/> P <input type="checkbox"/> T | Fill | | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | <input checked="" type="checkbox"/> Corps <input type="checkbox"/> DWQ | 0.03 |
| Site 2 <input checked="" type="checkbox"/> P <input type="checkbox"/> T | Excavation | | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | <input checked="" type="checkbox"/> Corps <input type="checkbox"/> DWQ | 0.06 |
| Site 3 <input type="checkbox"/> P <input type="checkbox"/> T | | | <input type="checkbox"/> Yes <input type="checkbox"/> No | <input type="checkbox"/> Corps <input type="checkbox"/> DWQ | |
| Site 4 <input type="checkbox"/> P <input type="checkbox"/> T | | | <input type="checkbox"/> Yes <input type="checkbox"/> No | <input type="checkbox"/> Corps <input type="checkbox"/> DWQ | |
| 2g. Total wetland impacts | | | | | 0.09 Permanent 0.0 Temporary |

2h. Comments: There will be 0.12 acre of hand clearing in wetlands due to bridge construction, which will result in 0.01 acre of temporary fill in wetlands for erosion control measures in these areas. There will also be 0.04 acre of hand clearing in wetlands to relocate the power poles, but no additional temporary wetland impacts are anticipated from this action.

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: There will be <0.01 acre of surface water impacts due to interior bent #1.

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:

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 | Bridge | Hardee Creek | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | 5,245 | 1,634 |
| B2 <input checked="" type="checkbox"/> P <input type="checkbox"/> T | Road Crossing | Hardee Creek | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | 367 | 1,751 |
| B3 <input type="checkbox"/> P <input type="checkbox"/> T | | | <input type="checkbox"/> Yes <input type="checkbox"/> No | | |
| 6h. Total buffer impacts | | | | 5,612 | 3,385 |
| 6i. Comments: There will be 356 sq. ft. of hand-clearing in buffers for utility work (relocation of overhead power lines), which is exempt from the buffer rules. | | | | | |

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 83 feet longer than the existing bridge; the proposed bridge will be at approximately the same grade as the existing structure; 3:1 fill slopes where practicable; and the implementation of Design Standards in Sensitive Watersheds.

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; the implementation of an anadromous fish moratorium from February 15 through June 15; and the utilization of an off-site detour.

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: Compensatory mitigation not proposed due to minimal permanent impacts. |
| 2b. If yes, mitigation is required by (check all that apply): | <input type="checkbox"/> DWQ <input type="checkbox"/> Corps |
| 2c. If yes, which mitigation option will be used for this project? | <input type="checkbox"/> Mitigation bank <input type="checkbox"/> Payment to in-lieu fee program <input type="checkbox"/> Permittee Responsible Mitigation |

3. Complete if Using a Mitigation Bank

3a. Name of Mitigation Bank: not applicable

| | | |
|---|------|----------|
| 3b. Credits Purchased (attach receipt and letter) | Type | Quantity |
|---|------|----------|

3c. Comments:

4. Complete if Making a Payment to In-lieu Fee Program

| | |
|---|---|
| 4a. Approval letter from in-lieu fee program is attached. | <input type="checkbox"/> Yes |
| 4b. Stream mitigation requested: | 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: | |

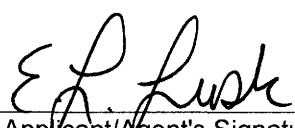
5. Complete if Using a Permittee Responsible Mitigation Plan

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 no, explain why. Comments: see attached permit drawings. | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |
| 2. Stormwater Management Plan | |
| 2a. What is the overall percent imperviousness of this project? | N/A |
| 2b. Does this project require a Stormwater Management Plan? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |
| 2c. If this project DOES NOT require a Stormwater Management Plan, explain why: | |
| 2d. If this project DOES require a Stormwater Management Plan, then provide a brief, narrative description of the plan: See attached permit drawings. | |
| 2e. Who will be responsible for the review of the Stormwater Management Plan? | <input type="checkbox"/> Certified Local Government <input type="checkbox"/> DWQ Stormwater Program <input type="checkbox"/> DWQ 401 Unit |
| 3. Certified Local Government Stormwater Review | |
| 3a. In which local government's jurisdiction is this project? | not applicable |
| 3b. Which of the following locally-implemented stormwater management programs apply (check all that apply): | <input type="checkbox"/> Phase II <input type="checkbox"/> NSW <input type="checkbox"/> USMP <input type="checkbox"/> Water Supply Watershed <input type="checkbox"/> Other: |
| 3c. Has the approved Stormwater Management Plan with proof of approval been attached? | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| 4. DWQ Stormwater Program Review | |
| 4a. Which of the following state-implemented stormwater management programs apply (check all that apply): | <input type="checkbox"/> Coastal counties <input type="checkbox"/> HQW <input type="checkbox"/> ORW <input type="checkbox"/> Session Law 2006-246 <input type="checkbox"/> Other: |
| 4b. Has the approved Stormwater Management Plan with proof of approval been attached? | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| 5. DWQ 401 Unit Stormwater Review | |
| 5a. Does the Stormwater Management Plan meet the appropriate requirements? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |
| 5b. Have all of the 401 Unit submittal requirements been met? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |

| F. Supplementary Information | |
|--|--|
| 1. Environmental Documentation (DWQ Requirement) | |
| 1a. Does the project involve an expenditure of public (federal/state/local) funds or the use of public (federal/state) land? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |
| 1b. If you answered "yes" to the above, does the project require preparation of an environmental document pursuant to the requirements of the National or State (North Carolina) Environmental Policy Act (NEPA/SEPA)? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |
| 1c. If you answered "yes" to the above, has the document review been finalized by the State Clearing House? (If so, attach a copy of the NEPA or SEPA final approval letter.) Comments: | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |
| 2. Violations (DWQ Requirement) | |
| 2a. Is the site in violation of DWQ Wetland Rules (15A NCAC 2H .0500), Isolated Wetland Rules (15A NCAC 2H .1300), DWQ Surface Water or Wetland Standards, or Riparian Buffer Rules (15A NCAC 2B .0200)? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| 2b. Is this an after-the-fact permit application? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| 2c. If you answered "yes" to one or both of the above questions, provide an explanation of the violation(s): | |
| 3. Cumulative Impacts (DWQ Requirement) | |
| 3a. Will this project (based on past and reasonably anticipated future impacts) result in additional development, which could impact nearby downstream water quality? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| 3b. If you answered "yes" to the above, submit a qualitative or quantitative cumulative impact analysis in accordance with the most recent DWQ policy. If you answered "no," provide a short narrative description. Due to the minimal transportation impact resulting from this bridge replacement, this project will neither influence nearby land uses nor stimulate growth. Therefore, a detailed indirect or cumulative effects study will not be necessary. | |
| 4. Sewage Disposal (DWQ Requirement) | |
| 4a. Clearly detail the ultimate treatment methods and disposition (non-discharge or discharge) of wastewater generated from the proposed project, or available capacity of the subject facility. not applicable | |

| | | |
|--|---|--|
| 5. Endangered Species and Designated Critical Habitat (Corps Requirement) | | |
| 5a. Will this project occur in or near an area with federally protected species or habitat? | <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> No |
| 5b. Have you checked with the USFWS concerning Endangered Species Act impacts? | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No |
| 5c. If yes, indicate the USFWS Field Office you have contacted. | <input checked="" type="checkbox"/> Raleigh <input type="checkbox"/> Asheville | |
| 5d. What data sources did you use to determine whether your site would impact Endangered Species or Designated Critical Habitat? NHP, USFWS, NCDOT 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 (Agent's signature is valid only if an authorization letter from the applicant is provided.) | 11-30-09 Date |

U.S. ARMY CORPS OF ENGINEERS

Wilmington District

Action ID: 200310732 County: PHT

Notification of Jurisdictional Determination

Property owner/Authorized Agent Ms. Philip May, Environmental Scientist, 1285 Tryon Street, Suite 1400 Charlotte, NC 28202-5004 Telephone Number (704) 338-6700

Size and Location of Property (waterbody, Highway name/number, town, etc.) Wetlands Adjacent to Bridge Site B-4238 over Hardee Creek on SR 1726

Indicate which of the following apply: UTV N 35:576347 W-77.323389

- There are wetlands on the above described property which we strongly suggest should be delineated and surveyed. The surveyed wetland lines must be verified by our staff before the Corps will make a final jurisdictional determination on your property.
Because of the size of your property and our present workload, our identification and delineation of your wetlands cannot be accomplished in a timely manner. You may wish to employ a consultant to obtain a more timely delineation of the wetlands. Once your consultant has flagged a wetland line on the property, Corps staff will review it, and if it is accurate, we strongly recommend that you have the line surveyed for final approval by the Corps. The Corps will not make a final jurisdictional determination on your property without an approved survey.
The wetlands on your lot have been delineated, and the limits of Corps jurisdiction have been explained to you. Unless there is a change in the law or our published regulations, this determination may be relied upon for a period not to exceed three years from the date of this notification.
There are no wetlands present on the above described property which are subject to the permit requirements of Section 404 of the Clean Water Act (33 USC 1344). Unless there is a change in the law or our published regulations, this determination may be relied upon for a period not to exceed three years from the date of this notification.
The project is located in one of the 20 Coastal Counties. You should contact the nearest State Office of Coastal Management to determine their requirements.

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

Mike Bell at (252) 975-1616 x26

Property owner/Authorized Agent Signature

Project Manager Signature Michael A Bell

Date 7-3-03 Expiration Date 7-3-08

SURVEY PLAT OR FIELD SKETCH OF DESCRIBED PROPERTY AND THE WETLAND DELINEATION FORM MUST BE ATTACHED TO THE YELLOW (FILE) COPY OF THIS FORM.

**NOTIFICATION OF ADMINISTRATIVE APPEAL OPTIONS AND PROCESS AND
REQUEST FOR APPEAL**

| | | |
|-------------------------------------|--|---------------------|
| Applicant: <u>NC DOT</u> | File Number: <u>200310732</u> | Date: <u>1/3/03</u> |
| Attached is: | | See Section below |
| <input type="checkbox"/> | INITIAL PROFFERED PERMIT (Standard Permit or Letter of permission) | A |
| <input type="checkbox"/> | PROFFERED PERMIT (Standard Permit or Letter of permission) | B |
| <input type="checkbox"/> | PERMIT DENIAL | C |
| <input checked="" type="checkbox"/> | APPROVED JURISDICTIONAL DETERMINATION | D |
| <input type="checkbox"/> | PRELIMINARY JURISDICTIONAL DETERMINATION | E |

SECTION I - The following identifies your rights and options regarding an administrative appeal of the above decision. Additional information may be found at <http://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 division 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:

Mr. Michael Bell, Regulatory Specialist
Washington Regulatory Field Office
Post Office Box 1000
Washington, North Carolina 27889-1000
(252) 975-1616 X26

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

Mr. Arthur Middleton, 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: _____

DIVISION ENGINEER:
Commander
U.S. Army Engineer Division, South Atlantic
60 Forsyth Street, Room 9M15
Atlanta, Georgia 30303-3490

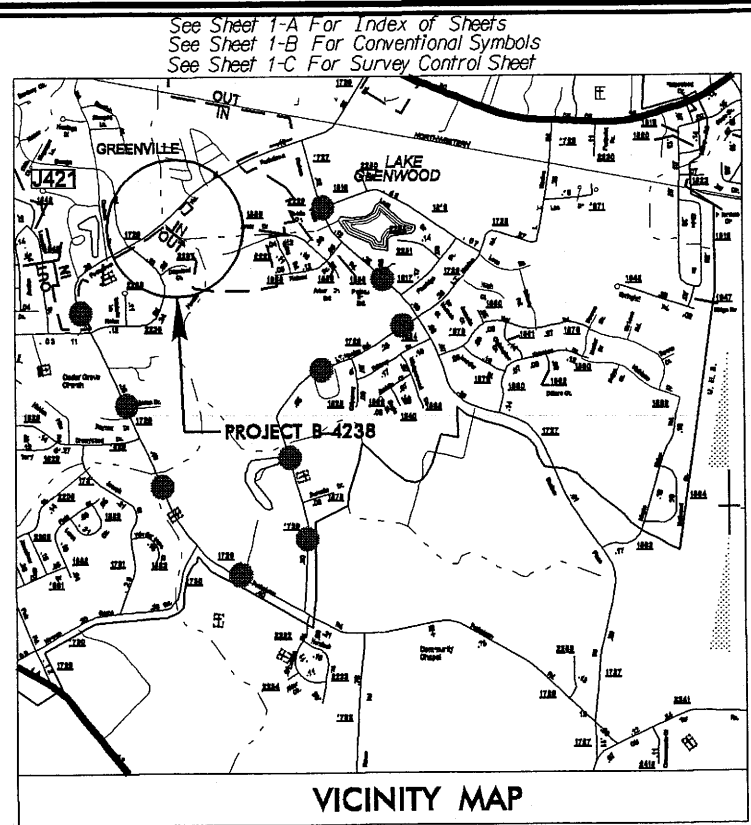
| | | | |
|-----------------|-----------------------------|-----------------|--------------|
| STATE | STATE PROJECT REFERENCE NO. | SHEET NO. | TOTAL SHEETS |
| N.C. | B-4238 | 1 | |
| STATE PROJ. NO. | F.A. PROJ. NO. | DESCRIPTION | |
| 33581.1.1 | BRSTP-1726(1) | P.E. | |
| 33581.2.1 | BRSTP-1726(1) | R/W & UTILITIES | |
| 33581.3.1 | BRSTP-1726(1) | CONST. | |

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

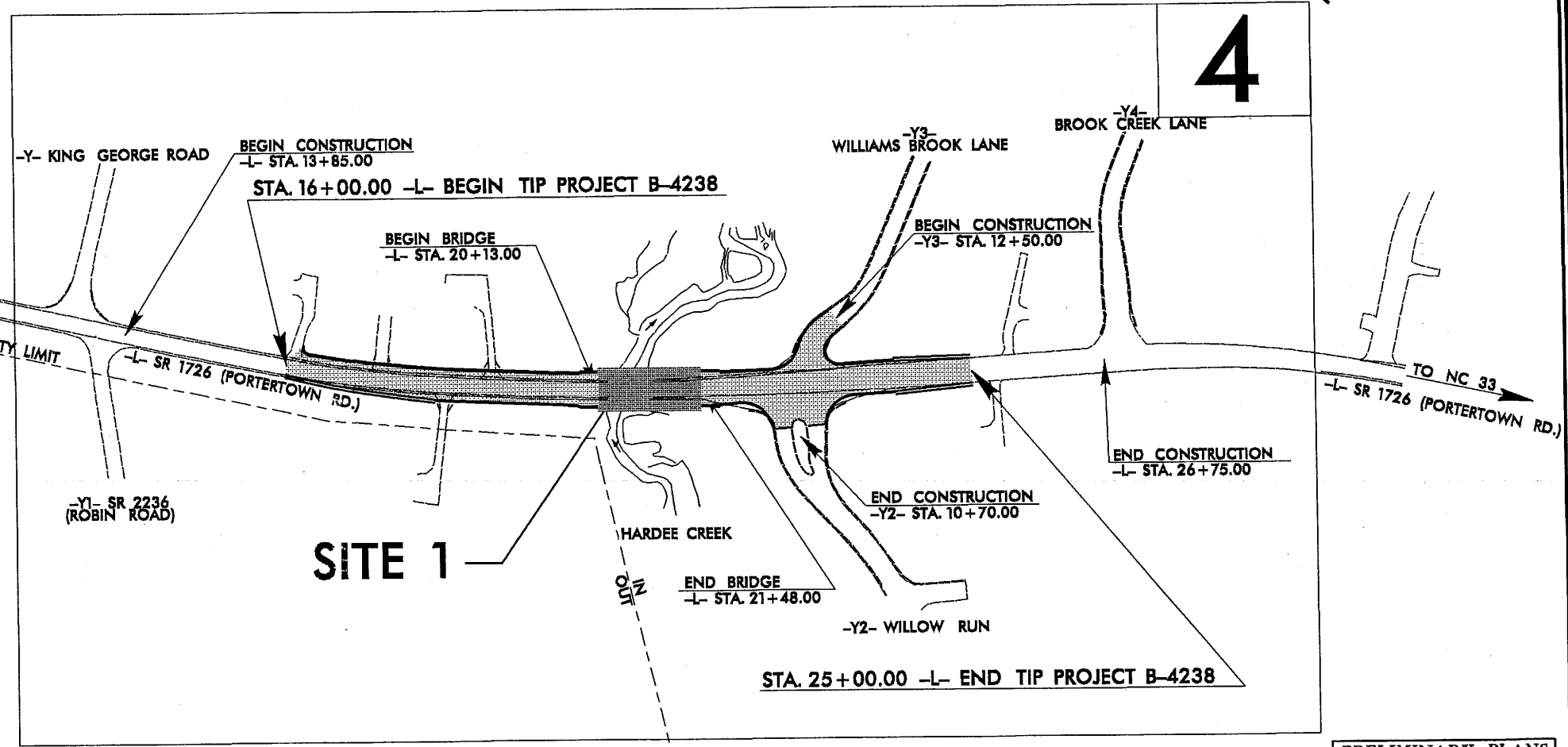
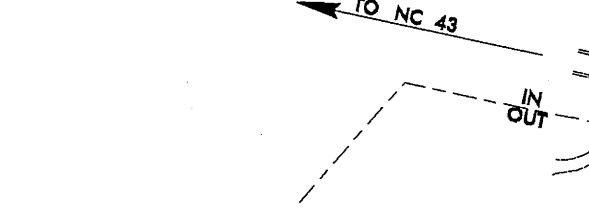
PITT COUNTY

LOCATION: BRIDGE NO. 219 OVER HARDEE CREEK ON SR 1726
(PORTERTOWN ROAD) IN GREENVILLE

TYPE OF WORK: GRADING, DRAINAGE, PAVING, CURB & GUTTER,
STRUCTURE, AND TEMPORARY SIGNAL



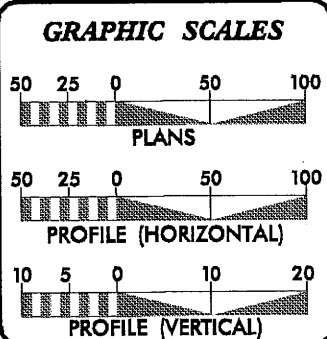
DETOUR ROUTE
(SEE SHEET 2-A FOR DETOUR IMPROVEMENTS)



WETLAND & STREAM IMPACTS

CLEARING ON THIS PROJECT SHALL BE PERFORMED TO THE LIMITS ESTABLISHED BY METHOD III.
THIS PROJECT IS WITHIN THE MUNICIPAL BOUNDARIES OF GREENVILLE.

PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION



DESIGN DATA

| | |
|------------|---------|
| ADT 2010 = | 10580 |
| ADT 2025 = | 15600 |
| DHV = | 10 % |
| D = | 60 % |
| T = | 5 % * |
| V = | 40 MPH |
| * TTST 2% | DUAL 3% |

PROJECT LENGTH

| | |
|---------------------------------------|-------------|
| LENGTH ROADWAY TIP PROJECT B-4238 = | 0.145 MILES |
| LENGTH STRUCTURE TIP PROJECT B-4238 = | 0.026 MILES |
| TOTAL LENGTH OF TIP PROJECT B-4238 = | 0.171 MILES |

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

2006 STANDARD SPECIFICATIONS

RIGHT OF WAY DATE: APRIL 7, 2009

LETTING DATE: MAY 18, 2010

JAMES A. SPEER, PE
PROJECT ENGINEER

DANIEL W. GARDNER, PE
PROJECT DESIGN ENGINEER

HYDRAULICS ENGINEER

ROADWAY DESIGN ENGINEER

SIGNATURE: _____ P.E.

DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA

Permit Drawing
Sheet 1 of 7

STATE HIGHWAY DESIGN ENGINEER

CONTRACT: C202375
 TIP PROJECT: B-4238
 31-AUG-2009 13:40
 F:\hyd\civil\env\environmental\drawings\b4238_hyd_wet_tsh.dgn
 mshawn AT HY233382

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 (ft) | Existing Channel Impacts Temp. (ft) | Natural Stream Design (ft) | | | |
| 1 | 20+80.5 -L- | 1@55', 1@35' 1@45' 21" CORED SLAB BRIDGE | 0.03 | | 0.06 | | 0.12 | | | | | | | | |
| TOTALS: | | | 0.03 | | 0.06 | | 0.12 | | | | | | | | |

NOTE: INTERIOR BENT #1 CONSISTS OF 9 STEEL PILES WITH A TOTAL AREA OF 1.34 SQ. FT.

NOTE: 0.01 ACRES OF TEMPORARY FILL IN WETLANDS IN THE HAND CLEARING AREAS FOR EROSION CONTROL MEASURES

**Permit Drawing
Sheet 2 of 7**

NC DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

PITT COUNTY
WBS - 33581.1.1 (B-4238)

SHEET 8/31/2009

PROPERTY OWNERS

NAMES AND ADDRESSES

| PARCEL NO. | NAMES | ADDRESSES |
|------------|---|---|
| 6 | CHRISTOPHER S. DAWSON | 1850 PORTERTOWN RD. GREENVILLE, NC 27858 |
| 7 | DAVID R. SMITH | 3603 WILLOW RUN DR. GREENVILLE, NC 27858 |
| 8 | ALLEN O. SPAIN, et al | 1083 BRILEY RD. GREENVILLE, NC 27834 |
| 9 | WILLOW RUN OF PITT HOMEOWNERS ASSOC. | P.O. BOX 5064 GREENVILLE, NC 27835 |

NCDOT

**DIVISION OF HIGHWAYS
PITT COUNTY**

PROJECT: 33581.1.1 (B-4238)

BRIDGE NO. 219 OVER

HARDEE CREEK ON SR 1726

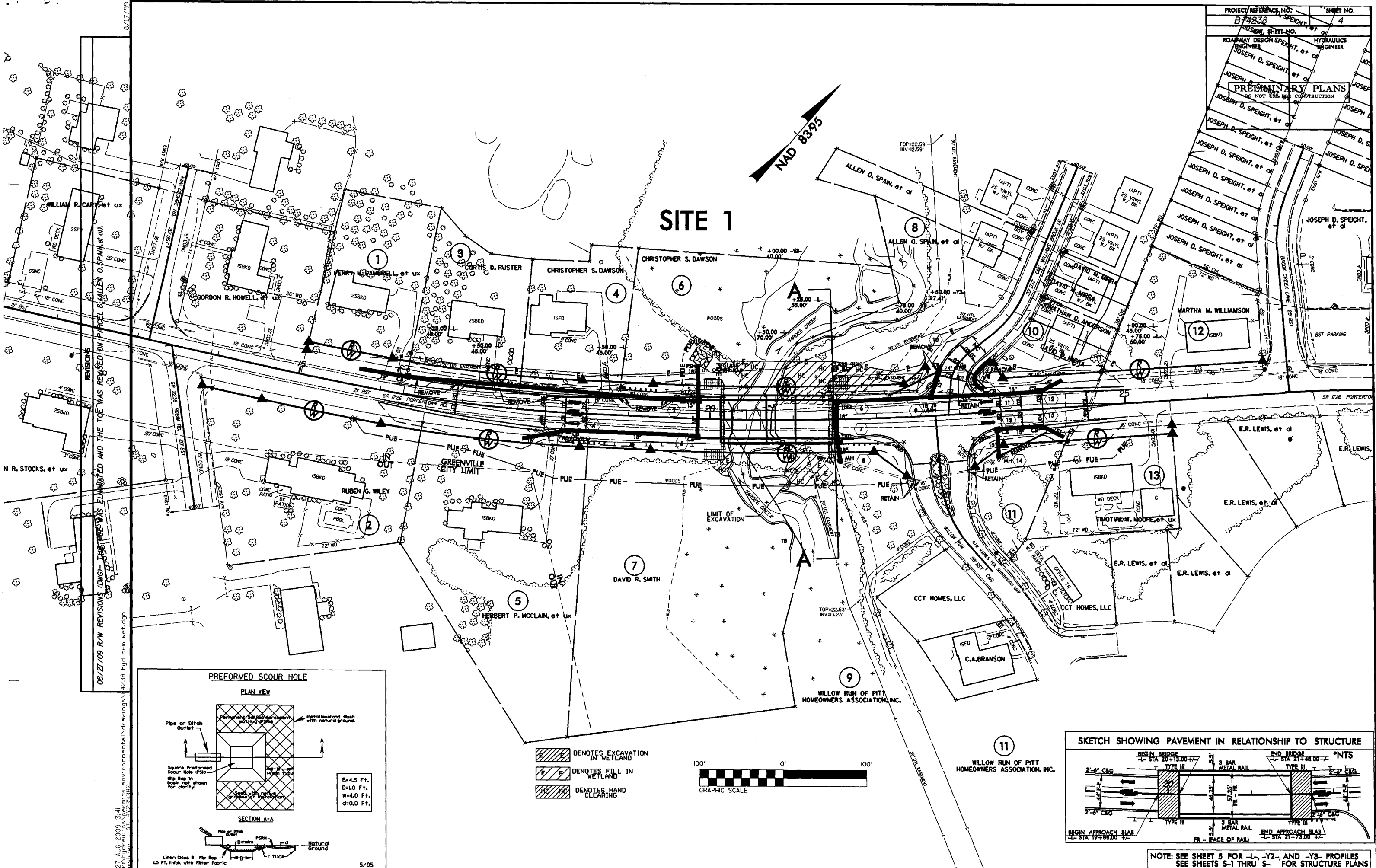
(PORTERTOWN RD.) IN GREENVILLE

Permit Drawing
Sheet 3 of 7

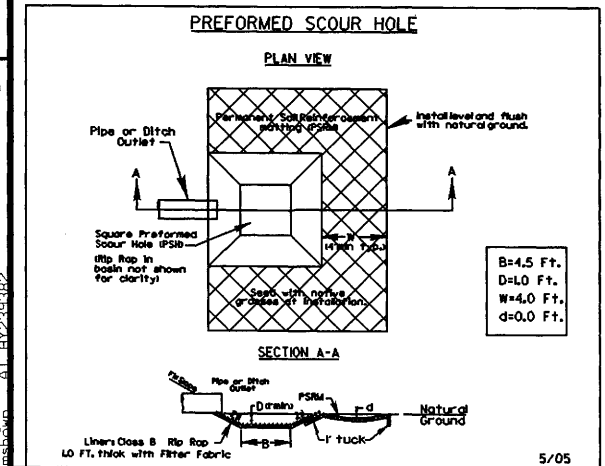
SHEET

OF

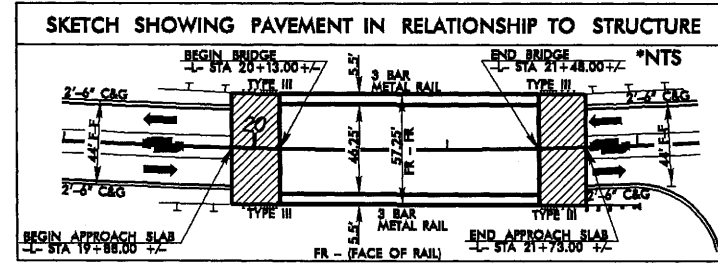
8 / 27 / 09



8/17/99
 08/27/09 R/W REVISIONS (DWG) - THE R/W WAS ELONGATED AND THE TOE WAS REVISIONED ON PARCEL 8 ALLEN O. SPAIN, JR. et al.
 07-AUG-2009 (3:41)
 C:\hidp\autocad\environmental\drawings\4238_hid_prm_wet.dwg
 5/05



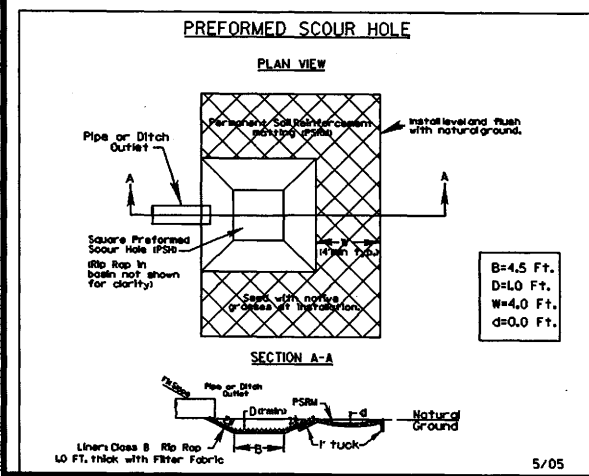
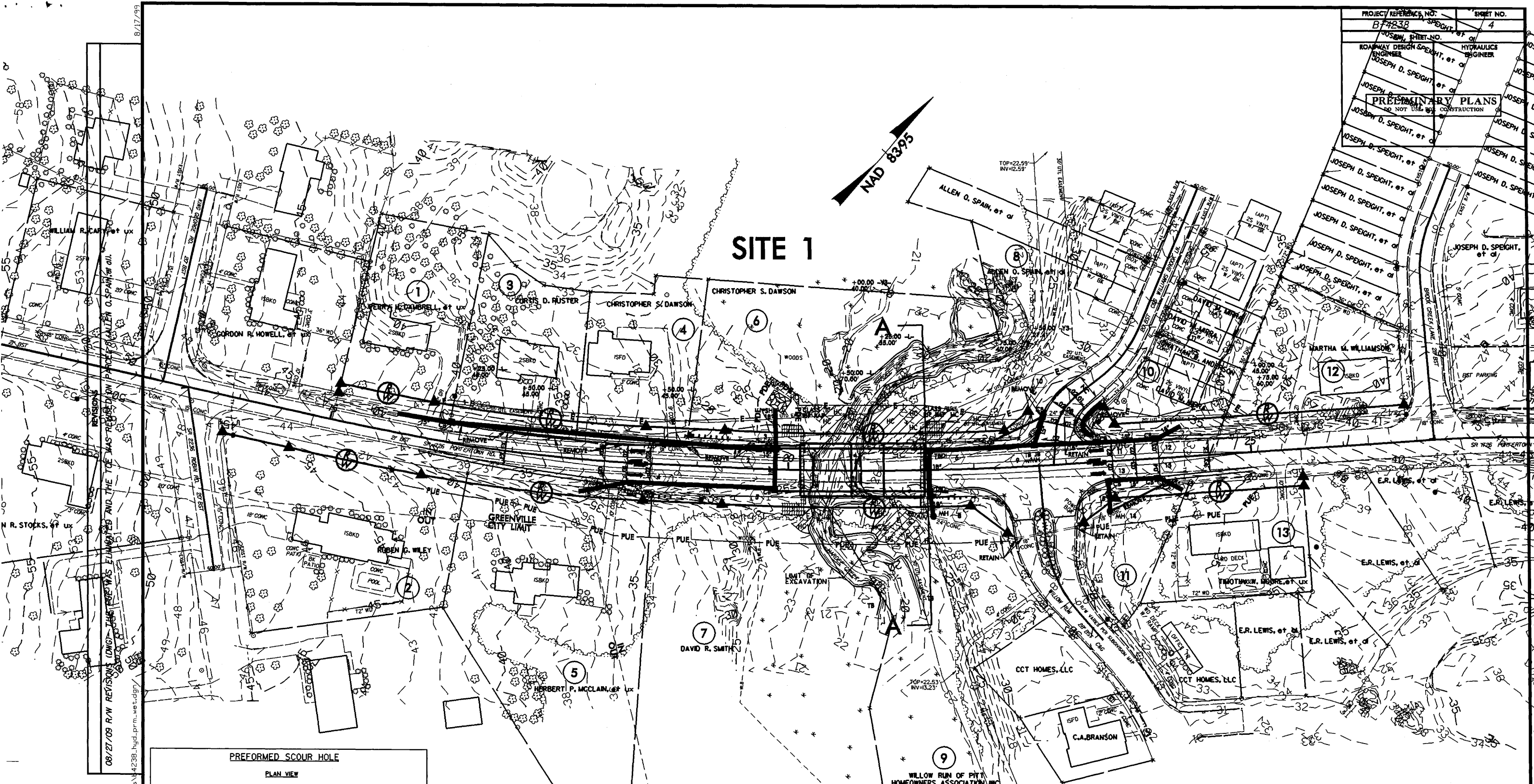
- DENOTES EXCAVATION IN WETLAND
- DENOTES FILL IN WETLAND
- DENOTES HAND CLEARING



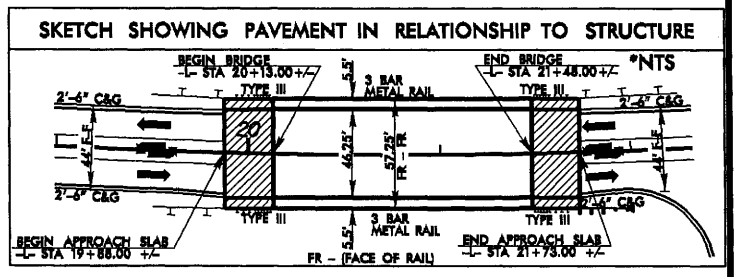
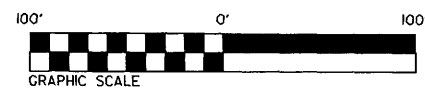
NOTE: SEE SHEET 5 FOR -L-, -Y2-, AND -Y3- PROFILES
 SEE SHEETS S-1 THRU S- FOR STRUCTURE PLANS

| | |
|-----------------------------|--------------------------|
| PROJECT REFERENCE NO. | SHEET NO. |
| B-4238 | 4 |
| ROSWIN, SHEET NO. | PART OF |
| ROADWAY DESIGN SHEET, et al | HYDRAULICS ENGINEER |
| JOSEPH D. SPEIGHT, et al | JOSEPH D. SPEIGHT, et al |
| JOSEPH D. SPEIGHT, et al | JOSEPH D. SPEIGHT, et al |
| JOSEPH D. SPEIGHT, et al | JOSEPH D. SPEIGHT, et al |

| | |
|-----------------------------|--------------------------|
| PRELIMINARY PLANS | |
| DO NOT USE FOR CONSTRUCTION | |
| JOSEPH D. SPEIGHT, et al | JOSEPH D. SPEIGHT, et al |
| JOSEPH D. SPEIGHT, et al | JOSEPH D. SPEIGHT, et al |
| JOSEPH D. SPEIGHT, et al | JOSEPH D. SPEIGHT, et al |
| JOSEPH D. SPEIGHT, et al | JOSEPH D. SPEIGHT, et al |
| JOSEPH D. SPEIGHT, et al | JOSEPH D. SPEIGHT, et al |



- [Hatched Pattern] DENOTES EXCAVATION IN WETLAND
- [Diagonal Line Pattern] DENOTES FILL IN WETLAND
- [Cross-hatch Pattern] DENOTES HAND CLEARING



NOTE: SEE SHEET 5 FOR -L-, -Y2-, AND -Y3- PROFILES
SEE SHEETS S-1 THRU S-6 FOR STRUCTURE PLANS

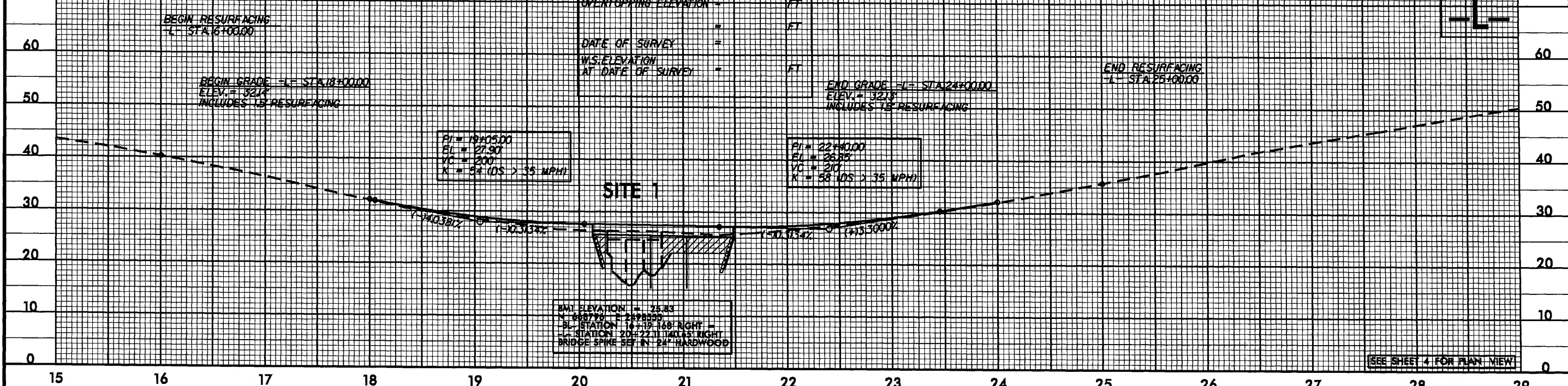
08/27/09 R/W REVISIONS (DWG) THESE REVISIONS AND THE TOE WAS RESEALING IN PLACE. CALLER O. SPAIN ET AL.
 27-AUG-2009 14:05
 F:\hyd\adulce\perm\313\environmental\dr-awings\B-4238-hyd.prm_vw.tdgn
 5/05

5/28/09

| | |
|--|---------------------|
| PROJECT REFERENCE NO. B-4238 | SHEET NO. 5 |
| ROADWAY DESIGN ENGINEER | HYDRAULICS ENGINEER |
| INCOMPLETE PLANS DO NOT USE FOR R/W ACQUISITION PRELIMINARY PLANS DO NOT USE FOR CONSTRUCTION | |

BRIDGE HYDRAULIC DATA

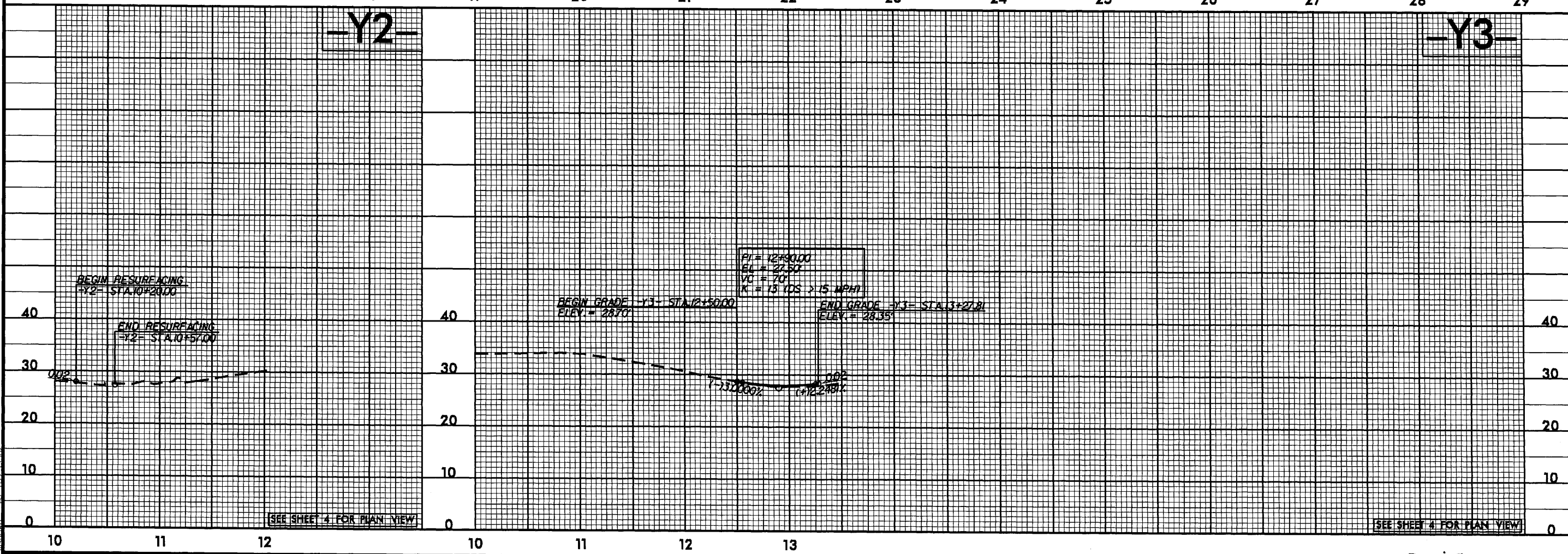
| | | |
|--------------------------------|---|-----|
| DESIGN DISCHARGE | = | CFS |
| DESIGN FREQUENCY | = | YRS |
| DESIGN HW ELEVATION | = | FT |
| BASE DISCHARGE | = | CFS |
| BASE FREQUENCY | = | YRS |
| BASE HW ELEVATION | = | FT |
| OVERTOPPING DISCHARGE | = | CFS |
| OVERTOPPING FREQUENCY | = | YRS |
| OVERTOPPING ELEVATION | = | FT |
| DATE OF SURVEY | = | |
| WS ELEVATION AT DATE OF SURVEY | = | FT |



BM ELEVATION = 25.83
 N 88779 E 2878255
 RL STATION 14+19.168 RIGHT =
 L STATION 20+22.11140.45 RIGHT
 BRIDGE SPIKE SET IN 24" HARDWOOD

-Y2-

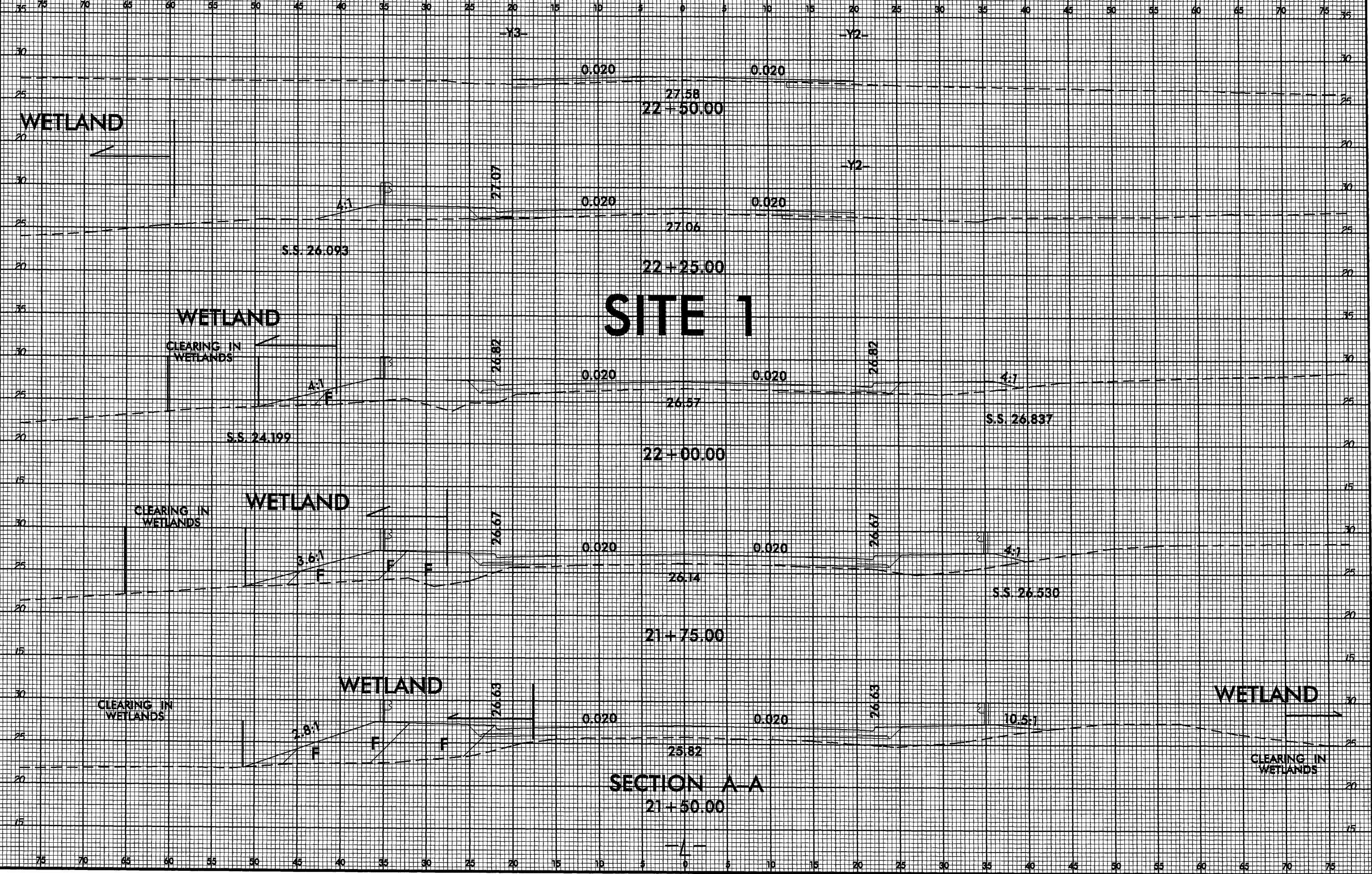
-Y3-



PI = 12+90.00
 EL = 27.50
 VC = 70
 K = 13 (DS > 15 MPH)

27-AUG-2009 14:04
 F:\hydr\ulice\permits\environmental\drawings\b4238_hyd_pf1.dgn
 ulice

8/23/09



27-AUG-2009 13:17
m:\drawings\environmental\drawings\b4238_hyd.prm_xpl.dgn

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

STATE OF NORTH CAROLINA
 DIVISION OF HIGHWAYS

PITT COUNTY

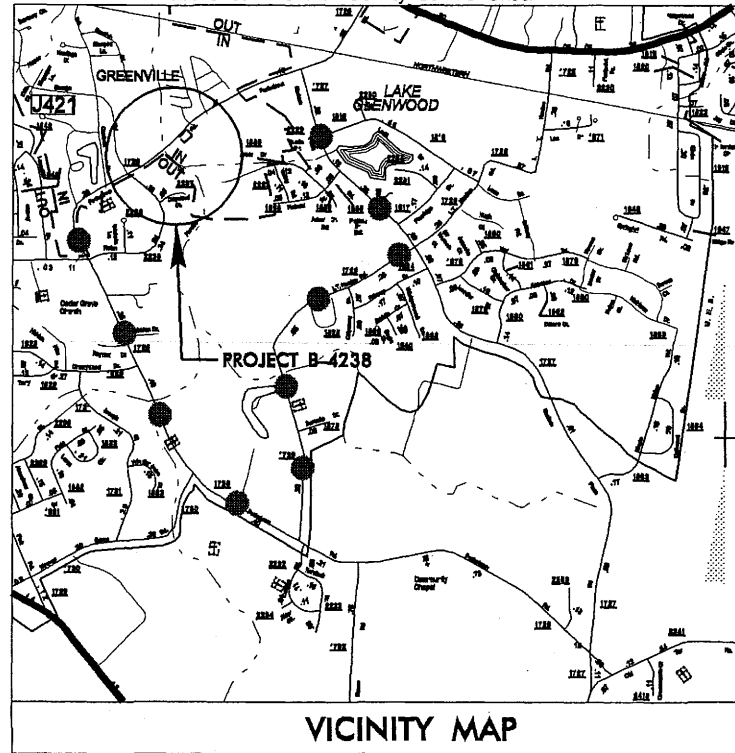
**LOCATION: BRIDGE NO. 219 OVER HARDEE CREEK ON SR 1726
 (PORTERTOWN ROAD) IN GREENVILLE**

**TYPE OF WORK: GRADING, DRAINAGE, PAVING, CURB & GUTTER,
 STRUCTURE, AND TEMPORARY SIGNAL**

| STATE | STATE PROJECT REFERENCE NO. | SHEET NO. | TOTAL SHEETS |
|-----------------|-----------------------------|-----------------|--------------|
| N.C. | B-4238 | 1 | |
| STATE PROJ. NO. | F.A. PROJ. NO. | DESCRIPTION | |
| 33581.1.1 | BRSTP-1726(1) | P.E. | |
| 33581.2.1 | BRSTP-1726(1) | R/W & UTILITIES | |
| 33581.3.1 | BRSTP-1726(1) | CONST. | |

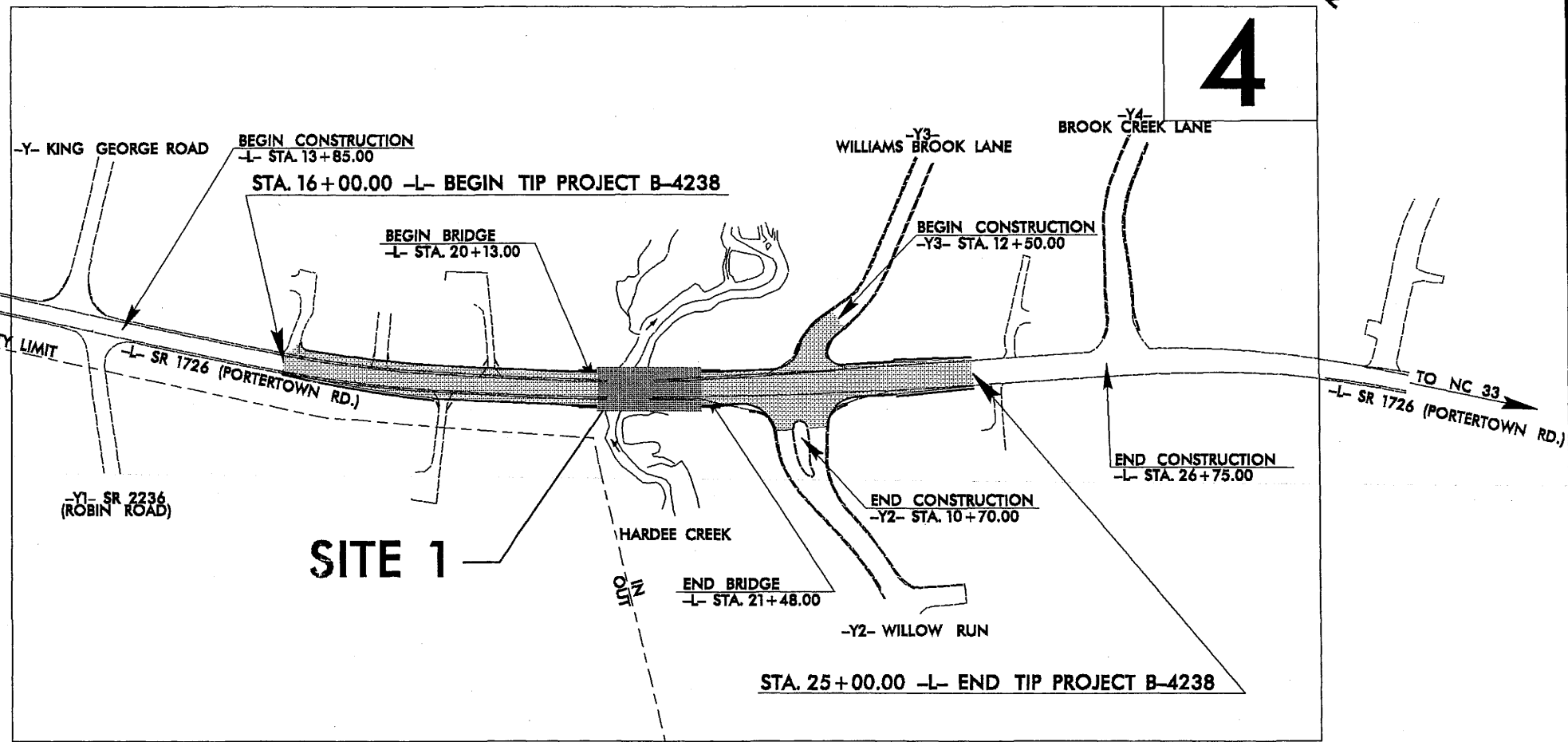
TIP PROJECT: B-4238

CONTRACT: C202375



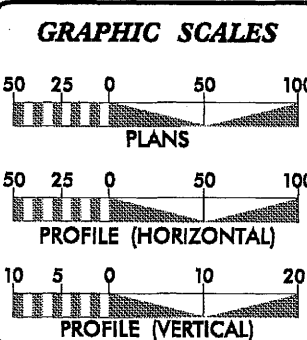
DETOUR ROUTE
 (SEE SHEET 2-A FOR DETOUR IMPROVEMENTS)

BUFFER IMPACTS



CLEARING ON THIS PROJECT SHALL BE PERFORMED TO THE LIMITS ESTABLISHED BY METHOD III.
 THIS PROJECT IS WITHIN THE MUNICIPAL BOUNDARIES OF GREENVILLE.

PRELIMINARY PLANS
 DO NOT USE FOR CONSTRUCTION



DESIGN DATA

| | |
|------------|---------|
| ADT 2010 = | 10580 |
| ADT 2025 = | 15600 |
| DHV = | 10 % |
| D = | 60 % |
| T = | 5 % * |
| V = | 40 MPH |
| * TTST 2% | DUAL 3% |

PROJECT LENGTH

| | |
|---------------------------------------|-------------|
| LENGTH ROADWAY TIP PROJECT B-4238 = | 0.145 MILES |
| LENGTH STRUCTURE TIP PROJECT B-4238 = | 0.026 MILES |
| TOTAL LENGTH OF TIP PROJECT B-4238 = | 0.171 MILES |

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

2006 STANDARD SPECIFICATIONS

| | |
|--|---|
| RIGHT OF WAY DATE: APRIL 7, 2009 | JAMES A. SPEER, PE PROJECT ENGINEER |
| LETTING DATE: MAY 18, 2010 | DANIEL W. GARDNER, 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

31-AUG-2009 13:43
 P:\hwy\adulca\environment\drawings\b4238_nyd_buf_tsh.dgn
 mshawn AT 11/23/08

BUFFER IMPACTS SUMMARY

| SITE NO. | STRUCTURE SIZE / TYPE | STATION (FROM/TO) | IMPACT | | | | | MITIGABLE | | | BUFFER REPLACEMENT | | | | |
|---------------|-----------------------|-------------------|---------------|--------|-----------------|---------------------------|--------------------------|---------------------------|---------------------------|--------------------------|---------------------------|---------------------------|---------------------------|---|---|
| | | | TYPE | | ALLOWABLE | | TOTAL (ft ²) | ZONE 1 (ft ²) | ZONE 2 (ft ²) | TOTAL (ft ²) | ZONE 1 (ft ²) | ZONE 2 (ft ²) | | | |
| | | | ROAD CROSSING | BRIDGE | PARALLEL IMPACT | ZONE 1 (ft ²) | | | | | | | ZONE 2 (ft ²) | | |
| 1 | 1@55', 1@35', 1@45' | 20+80.5 -L- | | X | | 5245 | 1634 | 6879 | | | | | | | |
| | CORED SLAB | | X | | 367 | 1751 | 2118 | | | | | | | | |
| | SLAB BRIDGE | | | | | | | | | | | | | | |
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| | | | | | | | | | | | | | | | |
| TOTAL: | | | | | | 5612 | 3385 | 8997 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

For the road crossing, there will be 70' of buffer impacts upstream and 57' downstream (127 linear feet total)

N.C. DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS

PITT COUNTY
PROJECT: 33581.1.1 (B-4238)

8/28/2009
SHEET OF

WETLANDS IN BUFFER IMPACTS SUMMARY

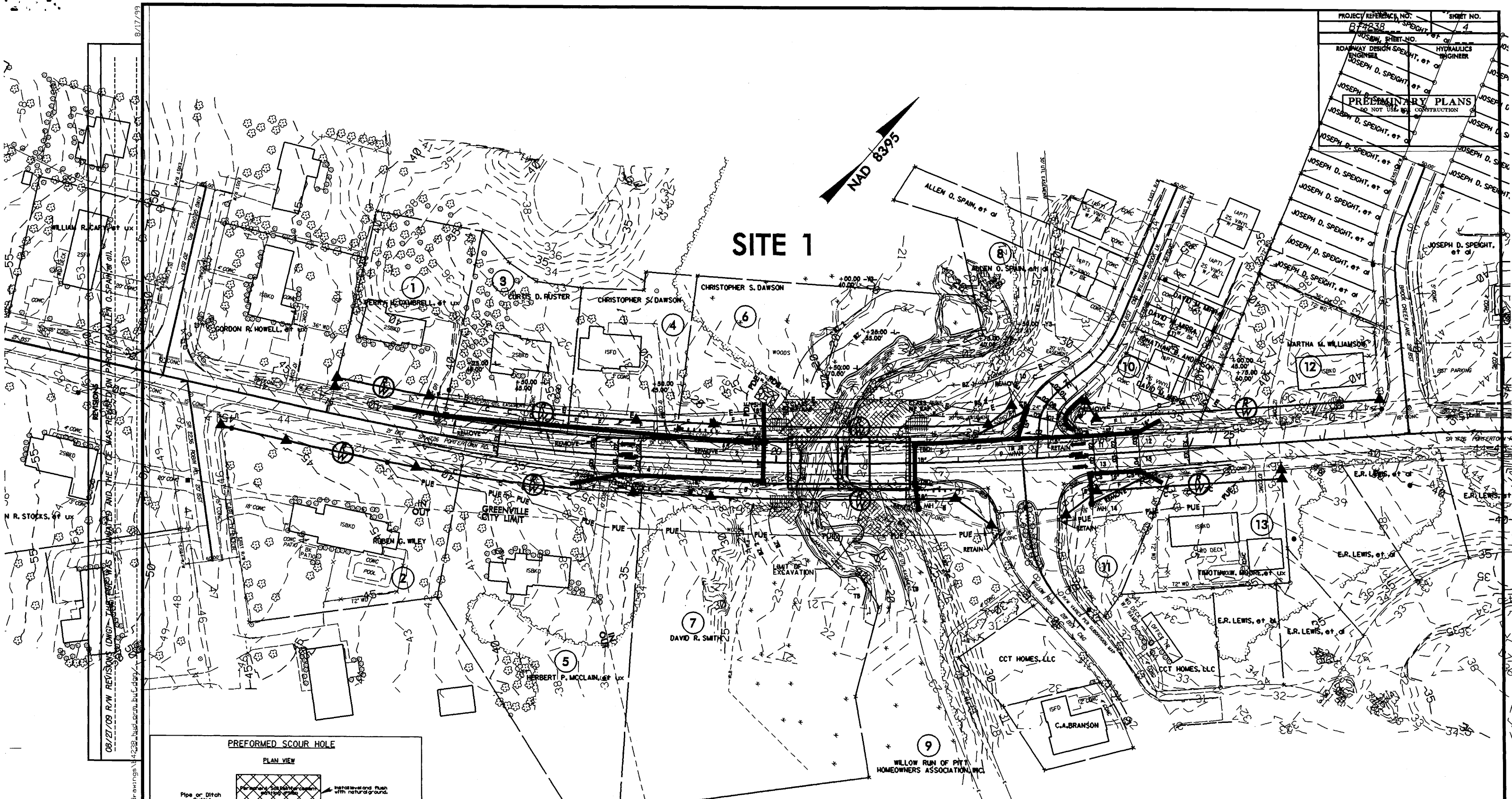
| SITE NO. | STATION (FROM/TO) | WETLANDS IN BUFFERS | |
|---------------|-------------------|---------------------------|---------------------------|
| | | ZONE 1 (ft ²) | ZONE 2 (ft ²) |
| 1 | 20+80.5 -L- | 4464 | 1950 |
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| | | | |
| TOTAL: | | 4464 | 1950 |

N.C. DEPT. OF TRANSPORTATION
 DIVISION OF HIGHWAYS

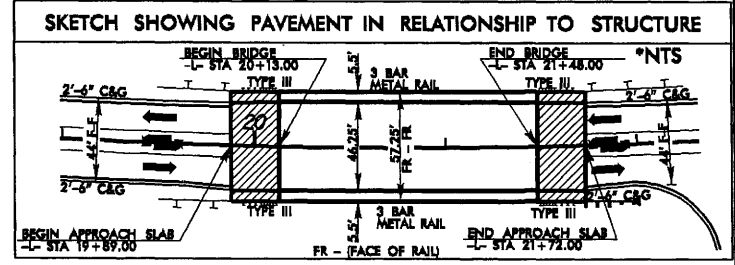
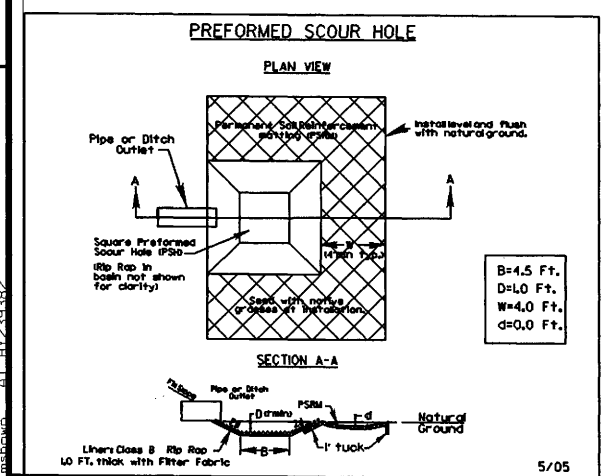
 PITT COUNTY
 PROJECT: 33581.1.1 (B-4238)

 8/28/2009
 SHEET OF

| | |
|--------------------------------|-----------------------------|
| PROJECT/REFERENCE NO. | SHEET NO. |
| B74238 | 4 |
| DESIGNER | HYDRAULICS ENGINEER |
| ROADWAY DESIGN SPEIGHT, et al. | JOSEPH D. SPEIGHT, et al. |
| ENGINEER | JOSEPH D. SPEIGHT, et al. |
| PRELIMINARY PLANS | DO NOT USE FOR CONSTRUCTION |
| JOSEPH D. SPEIGHT, et al. | JOSEPH D. SPEIGHT, et al. |



08/27/09 R/W REVISIONS (DWG) THESE REVISIONS WERE ELIMINATED AND THE TOE WAS REVISIONED ON PACE BLANKET O. SPAN ET AL.
 28-AUG-2009 14:08
 R:\hydro\utility\permits\environmental\drawings\4238_bud.crm_bud.dwg
 5/05



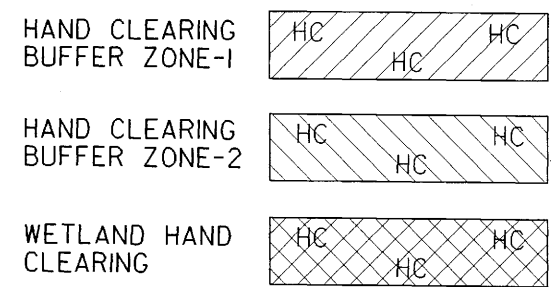
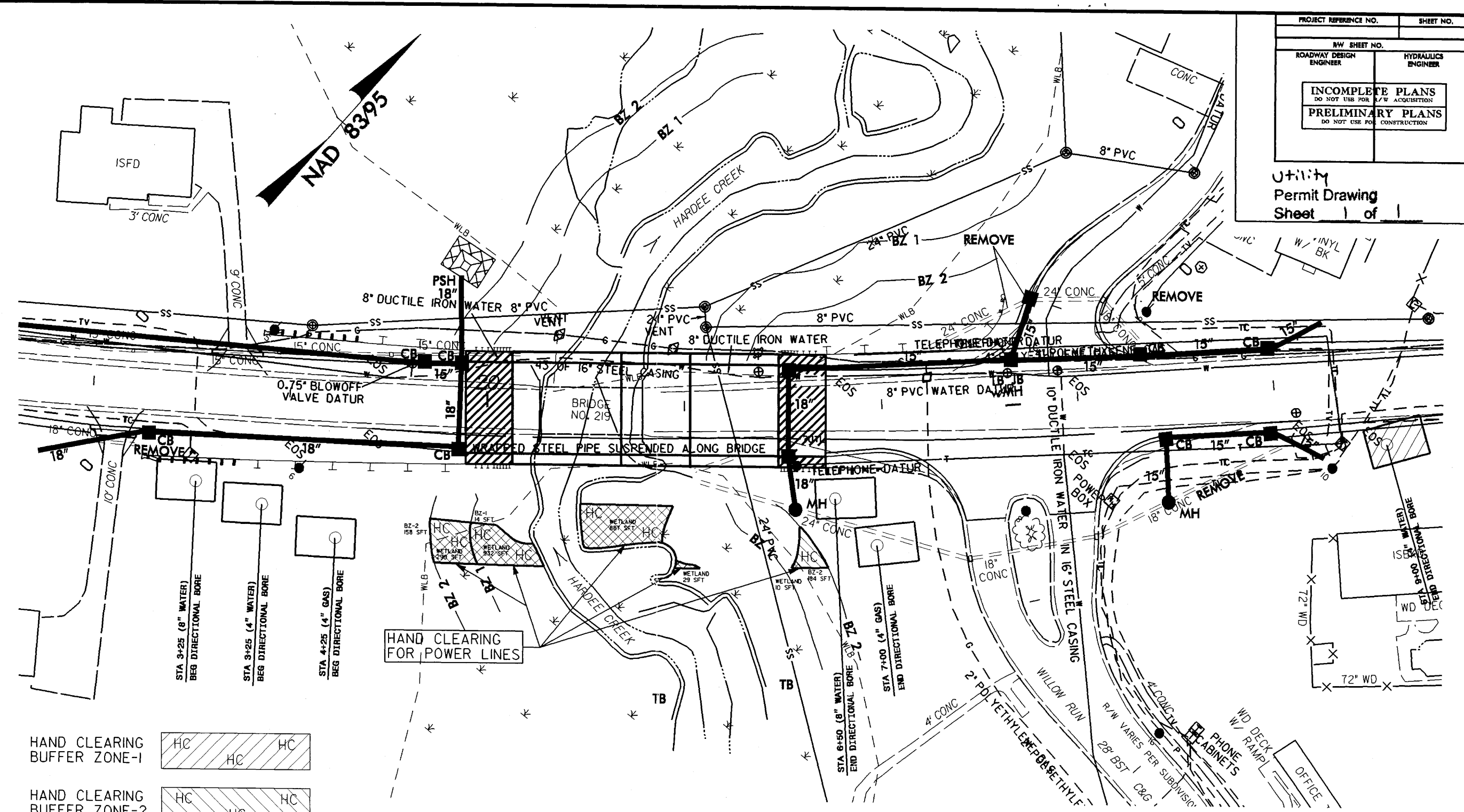
NOTE: SEE SHEET 5 FOR -L-, -Y2-, AND -Y3- PROFILES
 SEE SHEETS S-1 THRU S-... FOR STRUCTURE PLANS

8/17/99

REVISIONS

24-SEP-2009 07:58
F:\Utilities\pitt\proj\10-4238_evh_neu_permit\drawing-10-24-09.dgn

| | |
|--|---------------------|
| PROJECT REFERENCE NO. | SHEET NO. |
| RW SHEET NO. | |
| ROADWAY DESIGN ENGINEER | HYDRAULICS ENGINEER |
| INCOMPLETE PLANS DO NOT USE FOR A/W ACQUISITION PRELIMINARY PLANS DO NOT USE FOR CONSTRUCTION | |
| Utility Permit Drawing Sheet 1 of 1 | |



HAND CLEARING TOTALS:
 BUFFER ZONE-1: 14 SFT (0.00 AC)
 BUFFER ZONE-2: 342 SFT (0.01 AC)
 WETLAND: 1748 SFT (0.04 AC)

PLAN NOTES:

- (1) 8" WATER, 4" WATER, AND 4" GAS LINES TO BE RELOCATED FROM UNDER ROADWAY TO SOUTHEAST SIDE OF ROADWAY USING DIRECTIONAL BORES WITH ENTRY/EXIT PIT LOCATIONS AS SHOWN (OUTSIDE OF WETLANDS OR BUFFER ZONES)
- (2) HAND CLEARING AREAS INCLUDE 15' EACH SIDE OF POWER POLES/LINES BOUNDED BY HYDRO'S PERMITTED AREAS
- (3) POWER LINES/POLES RELOCATED TO 30' FROM BRIDGE

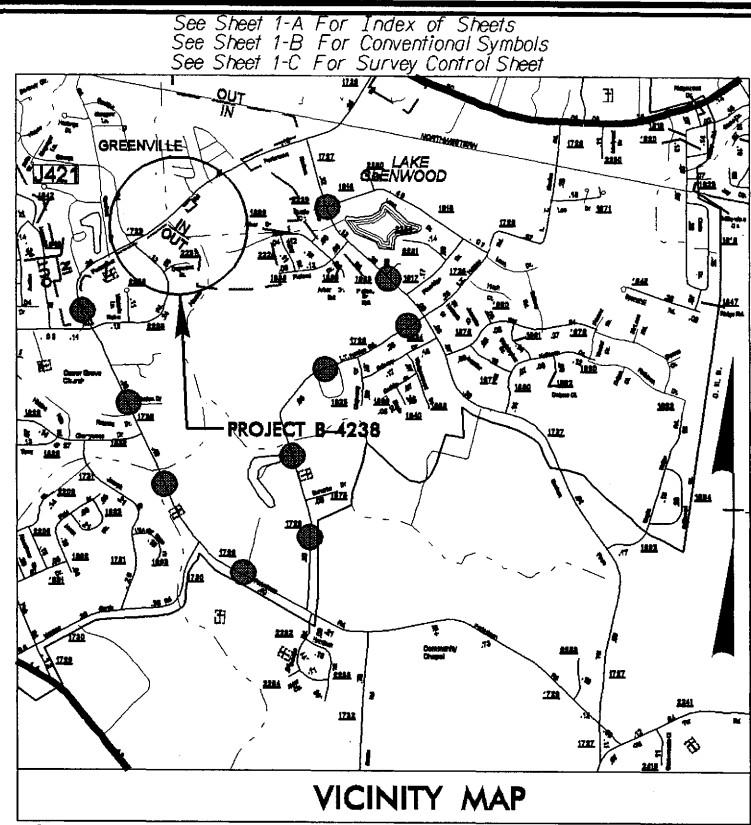
SEPTEMBER 24, 2009
UTILITIES - NEU PERMIT DRAWING
B-4238, PITT COUNTY, GREENVILLE
BRIDGE REPLACEMENT PROJECT
BRIDGE #219 OVER HARDEE CREEK
SR-1726 (PORTERTOWN ROAD)

| | | | |
|-----------------|-----------------------------|-----------------|--------------|
| STATE | STATE PROJECT REFERENCE NO. | SHEET NO. | TOTAL SHEETS |
| N.C. | B-4238 | 1 | |
| STATE PROJ. NO. | F.A. PROJ. NO. | DESCRIPTION | |
| 33581.1.1 | BRSTP-1726(1) | P.E. | |
| 33581.2.1 | BRSTP-1726(1) | R/W & UTILITIES | |
| 33581.3.1 | BRSTP-1726(1) | CONST. | |

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS
PITT COUNTY

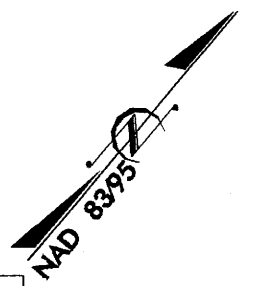
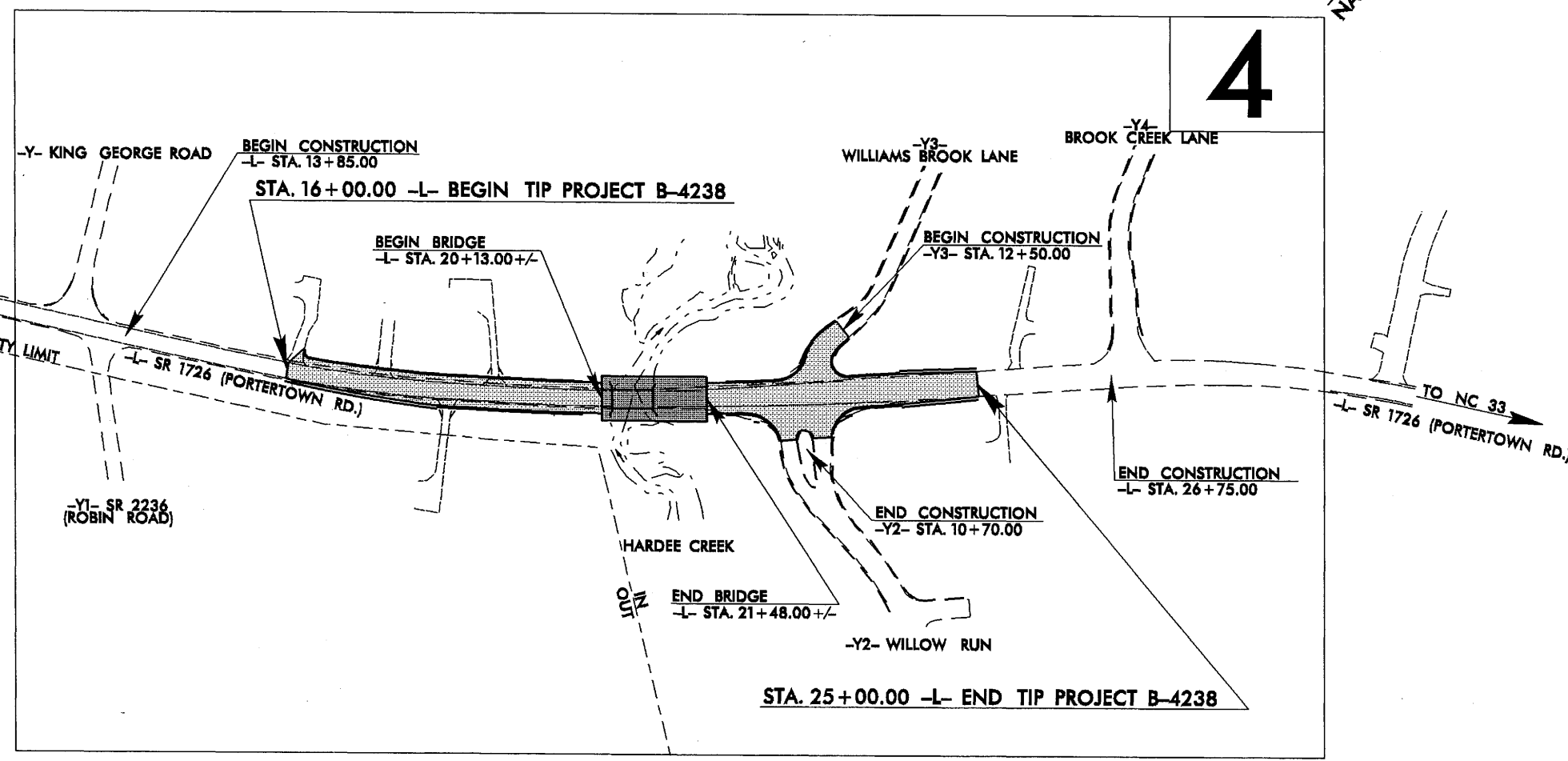
LOCATION: BRIDGE NO. 219 OVER HARDEE CREEK ON SR 1726
(PORTERTOWN ROAD) IN GREENVILLE

TYPE OF WORK: GRADING, DRAINAGE, PAVING, CURB & GUTTER,
STRUCTURE, AND TEMPORARY SIGNAL



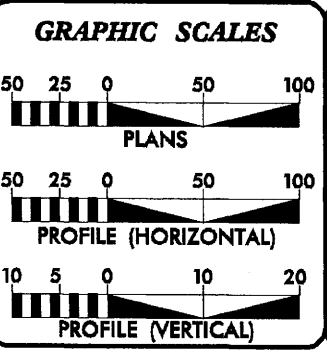
VICINITY MAP

DETOUR ROUTE
(SEE SHEET 2-A FOR DETOUR IMPROVEMENTS)



CLEARING ON THIS PROJECT SHALL BE PERFORMED TO THE LIMITS ESTABLISHED BY METHOD III.
THIS PROJECT IS WITHIN THE MUNICIPAL BOUNDARIES OF GREENVILLE.

PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION



DESIGN DATA

| | |
|------------|---------|
| ADT 2010 = | 10580 |
| ADT 2025 = | 15600 |
| DHV = | 10 % |
| D = | 60 % |
| T = | 5 % * |
| V = | 40 MPH |
| * TTST 2% | DUAL 3% |

PROJECT LENGTH

| | |
|---------------------------------------|-------------|
| LENGTH ROADWAY TIP PROJECT B-4238 = | 0.145 MILES |
| LENGTH STRUCTURE TIP PROJECT B-4238 = | 0.026 MILES |
| TOTAL LENGTH OF TIP PROJECT B-4238 = | 0.171 MILES |

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

2006 STANDARD SPECIFICATIONS

| | |
|-------------------------------------|--|
| RIGHT OF WAY DATE: APRIL 7, 2009 | JAMES A. SPEER, PE PROJECT ENGINEER |
| LETTING DATE: MAY 18, 2010 | DANIEL W. GARDNER, 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

SIGNATURE

P.E.

TIP PROJECT: B-4238

CONTRACT: C202375

27-AUG-2009 07:27 P:\roadway\proj_b4238_rdy_tsh.dgn \$\$\$USERNAME\$\$\$

3/15/06

Note: Not to Scale

*S.U.E. = Subsurface Utility Engineering

STATE OF NORTH CAROLINA DIVISION OF HIGHWAYS

CONVENTIONAL PLAN SHEET SYMBOLS

BOUNDARIES AND PROPERTY:

Table listing symbols for boundaries and property: State Line, County Line, Township Line, City Line, Reservation Line, Property Line, Existing Iron Pin, Property Corner, Property Monument, Parcel/Sequence Number, Existing Fence Line, Proposed Woven Wire Fence, Proposed Chain Link Fence, Proposed Barbed Wire Fence, Existing Wetland Boundary, Proposed Wetland Boundary, Existing Endangered Animal Boundary, Existing Endangered Plant Boundary.

BUILDINGS AND OTHER CULTURE:

Table listing symbols for 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:

Table listing symbols for 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:

Table listing symbols for railroads: Standard Gauge, RR Signal Milepost, Switch, RR Abandoned, RR Dismantled.

RIGHT OF WAY:

Table listing symbols for 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 Utility Easement, Proposed Temporary Utility Easement, Proposed Permanent Easement with Iron Pin and Cap Marker.

ROADS AND RELATED FEATURES:

Table listing symbols for roads and related features: Existing Edge of Pavement, Existing Curb, Proposed Slope Stakes Cut, Proposed Slope Stakes Fill, Proposed Wheel Chair Ramp, Existing Metal Guardrail, Proposed Guardrail, Existing Cable Guiderail, Proposed Cable Guiderail, Equality Symbol, Pavement Removal.

VEGETATION:

Table listing symbols for vegetation: Single Tree, Single Shrub, Hedge, Woods Line, Orchard, Vineyard.

EXISTING STRUCTURES:

Table listing symbols for 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:

Table listing symbols for 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:

Table listing symbols for 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:

Table listing symbols for 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:

Table listing symbols for gas: Gas Valve, Gas Meter, Recorded U/G Gas Line, Designated U/G Gas Line (S.U.E.*), Above Ground Gas Line.

SANITARY SEWER:

Table listing symbols for 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:

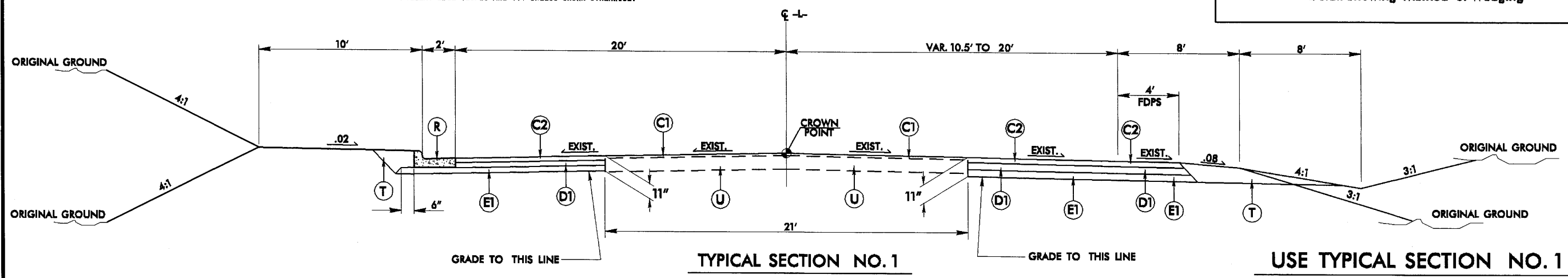
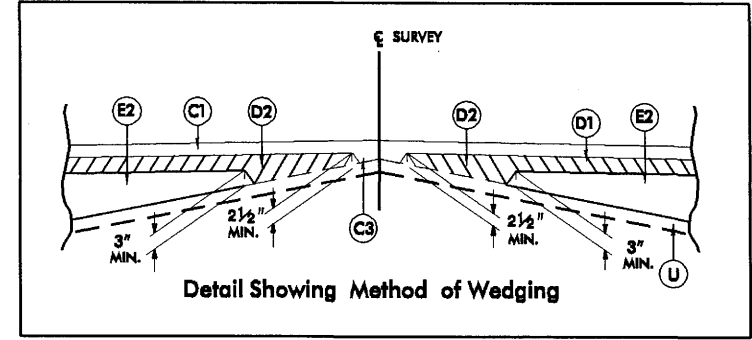
Table listing symbols for miscellaneous: Utility Pole, Utility Pole with Base, Utility Located Object, Utility Traffic Signal Box, Utility Unknown U/G Line, U/G Tank; Water, Gas, Oil, A/G Tank; Water, Gas, Oil, U/G Test Hole (S.U.E.*), Abandoned According to Utility Records, End of Information.

6/2/99

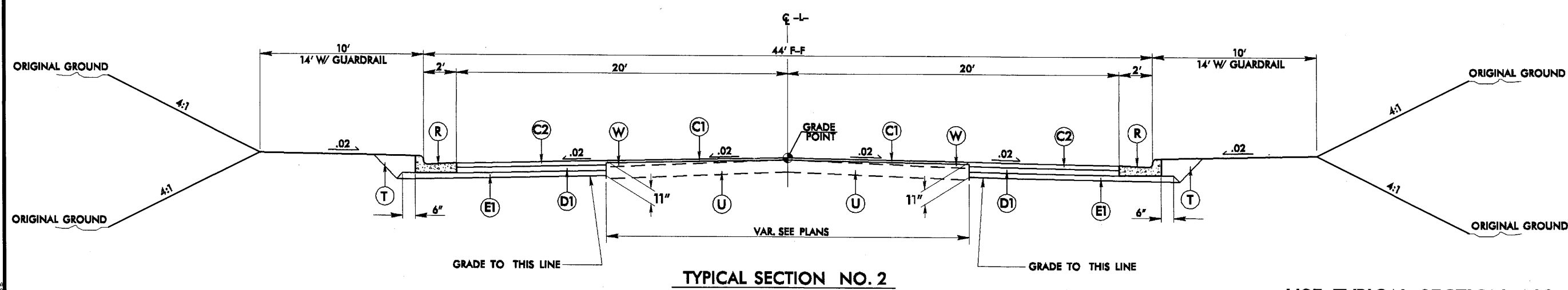
| | |
|---|--------------------------|
| PROJECT REFERENCE NO. B-4238 | SHEET NO. 2 |
| ROADWAY DESIGN ENGINEER | PAVEMENT DESIGN ENGINEER |
| PRELIMINARY PLANS DO NOT USE FOR CONSTRUCTION | |

| PAVEMENT SCHEDULE | | | |
|-------------------|---|----|--|
| C1 | PROP. APPROX. 1½" ASPHALT CONCRETE SURFACE COURSE, TYPE 89.5B, AT AN AVERAGE RATE OF 188 LBS. PER SQ. YD. | E2 | PROP. VAR. DEPTH ASPHALT CONCRETE BASE COURSE, TYPE B25.0B, AT AN AVERAGE RATE OF 114 LBS. PER SQ. YD. PER 1" DEPTH TO BE PLACED IN LAYERS NOT LESS THAN 3" IN DEPTH OR GREATER THAN 5½" IN DEPTH. |
| C2 | PROP. APPROX. 3" ASPHALT CONCRETE SURFACE COURSE, TYPE 89.5B, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD. IN EACH OF TWO LAYERS. | R | 2'-6" CONCRETE CURB AND GUTTER |
| C3 | PROP. VAR. DEPTH ASPHALT CONCRETE SURFACE COURSE, TYPE 89.5B, AT AN AVERAGE RATE OF 112 LBS. PER SQ. YD. PER 1" DEPTH. TO BE PLACED IN LAYERS NOT TO EXCEED 2" IN DEPTH. | S | 4" CONCRETE SIDEWALK |
| D1 | PROP. APPROX. 4" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE I19.0B, AT AN AVERAGE RATE OF 456 LBS. PER SQ. YD. | T | EARTH MATERIAL |
| D2 | PROP. VAR. DEPTH ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE I19.0B, AT AN AVERAGE RATE OF 114 LBS. PER SQ. YD. PER 1" DEPTH, TO BE PLACED IN LAYERS NOT LESS THAN 2½" IN DEPTH OR GREATER THAN 4" IN DEPTH. | U | EXISTING PAVEMENT |
| E1 | PROP. APPROX. 4" ASPHALT CONCRETE BASE COURSE, TYPE B25.0B, AT AN AVERAGE RATE OF 456 LBS. PER SQ. YD. | W | VARIABLE DEPTH ASPHALT PAVEMENT (SEE STANDARD WEDGING DETAIL) |

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



USE TYPICAL SECTION NO. 1
-L- STA. 16+00.00 TO STA. 18+00.00



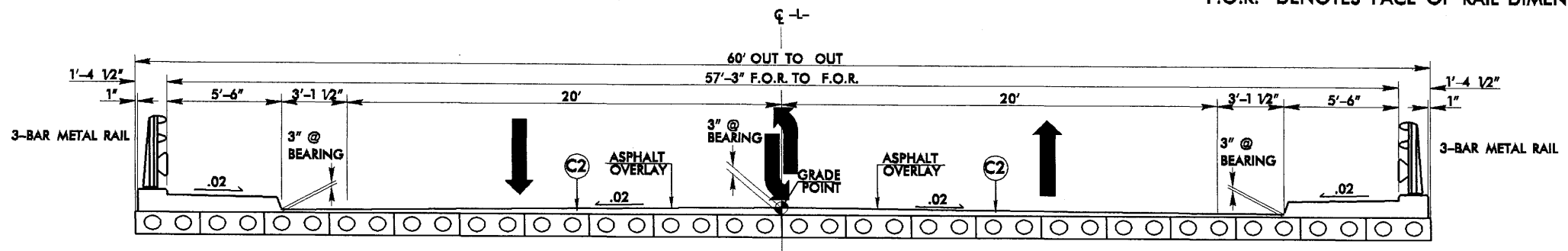
USE TYPICAL SECTION NO. 2
-L- STA. 18+00.00 TO STA. 20+13.00+/- (BEGIN BRIDGE)
-L- STA. 21+48.00+/- (END BRIDGE) TO STA. 24+00.00

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\$\$\$\$\$

6/2/99

"F.O.R." DENOTES FACE OF RAIL DIMENSION

| | |
|---|--------------------------|
| PROJECT REFERENCE NO. B-4238 | SHEET NO. 2-A |
| ROADWAY DESIGN ENGINEER | PAVEMENT DESIGN ENGINEER |
| PRELIMINARY PLANS DO NOT USE FOR CONSTRUCTION | |



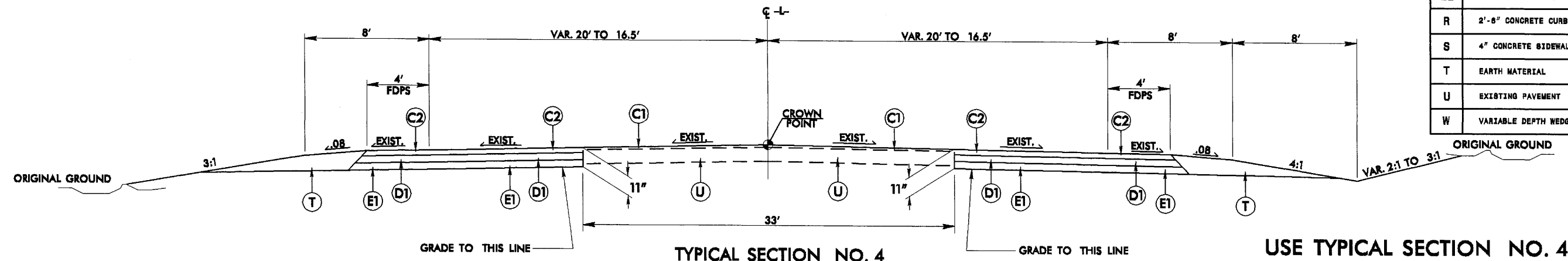
TYPICAL SECTION NO. 3

USE TYPICAL SECTION NO. 3

-L- STA. 20+13.00 +/- (BEGIN BRIDGE) TO STA. 21+48.00 +/- (END BRIDGE)

PAVEMENT SCHEDULE

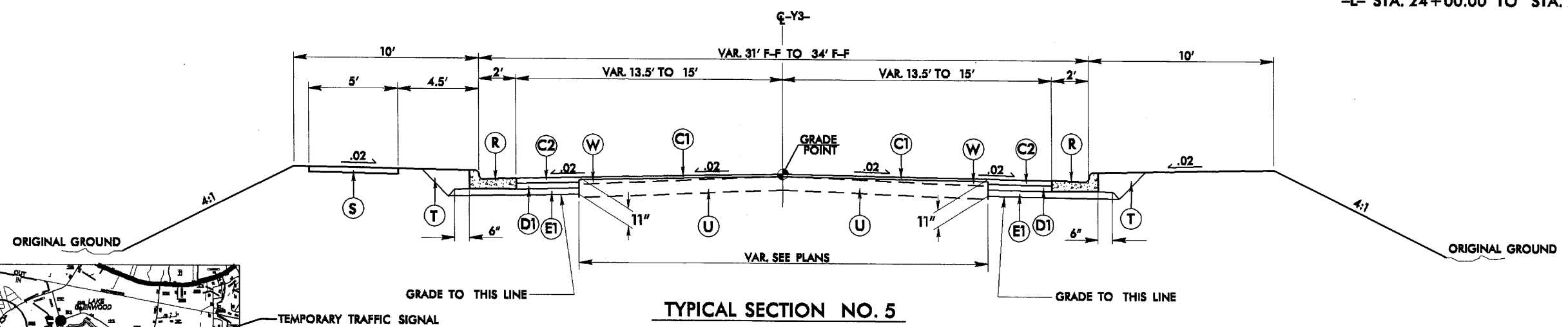
| | |
|----|--------------------------------|
| C1 | 1 1/2" 89.5B |
| C2 | 8" 89.5B |
| C3 | VAR. DEPTH 89.5B |
| D1 | 4" I19.0B |
| D2 | VAR. DEPTH I19.0B |
| E1 | 4" B25.0B |
| E2 | VAR. DEPTH B25.0B |
| R | 2'-6" CONCRETE CURB AND GUTTER |
| S | 4" CONCRETE SIDEWALK |
| T | EARTH MATERIAL |
| U | EXISTING PAVEMENT |
| W | VARIABLE DEPTH WEDGING |



TYPICAL SECTION NO. 4

USE TYPICAL SECTION NO. 4

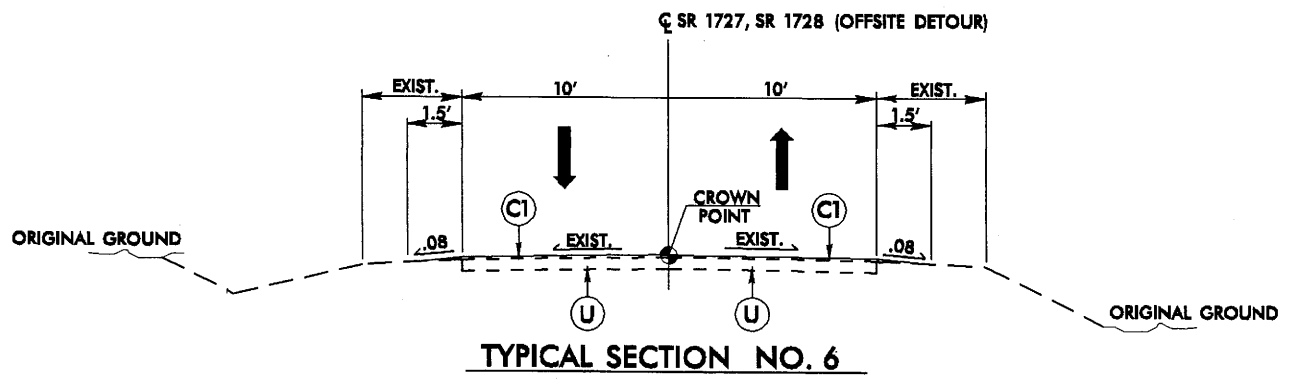
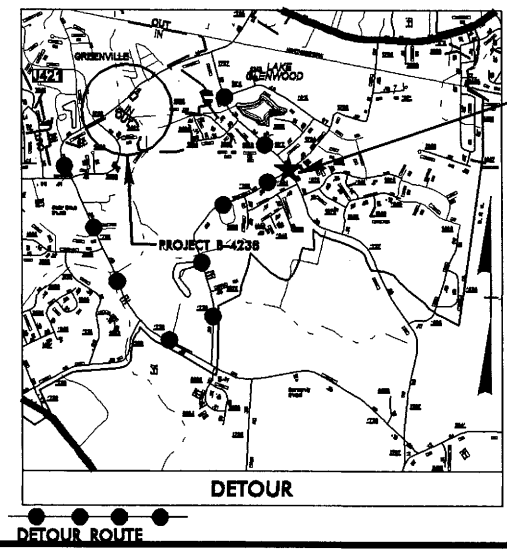
-L- STA. 24+00.00 TO STA. 25+00.00



TYPICAL SECTION NO. 5

USE TYPICAL SECTION NO. 5

-Y3- STA. 12+50.00 TO STA. 12+79.31



TYPICAL SECTION NO. 6

USE TYPICAL SECTION NO. 6

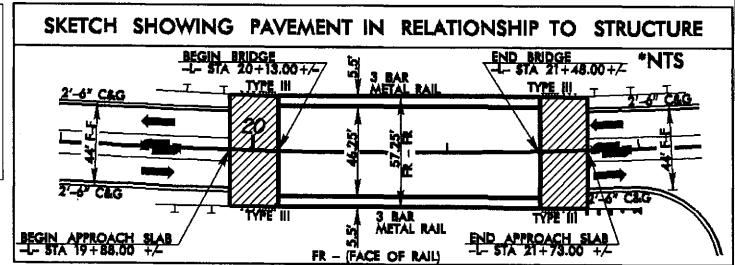
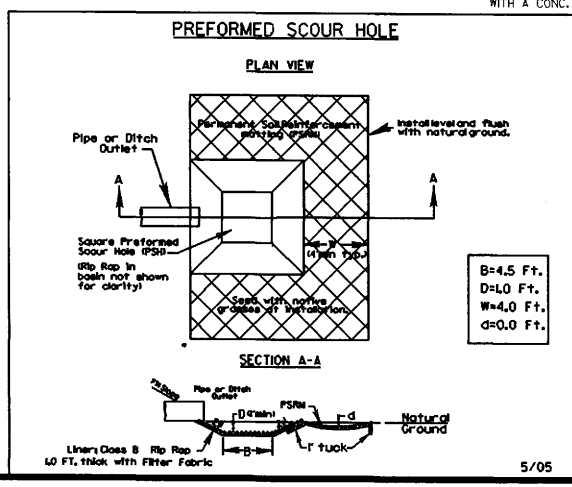
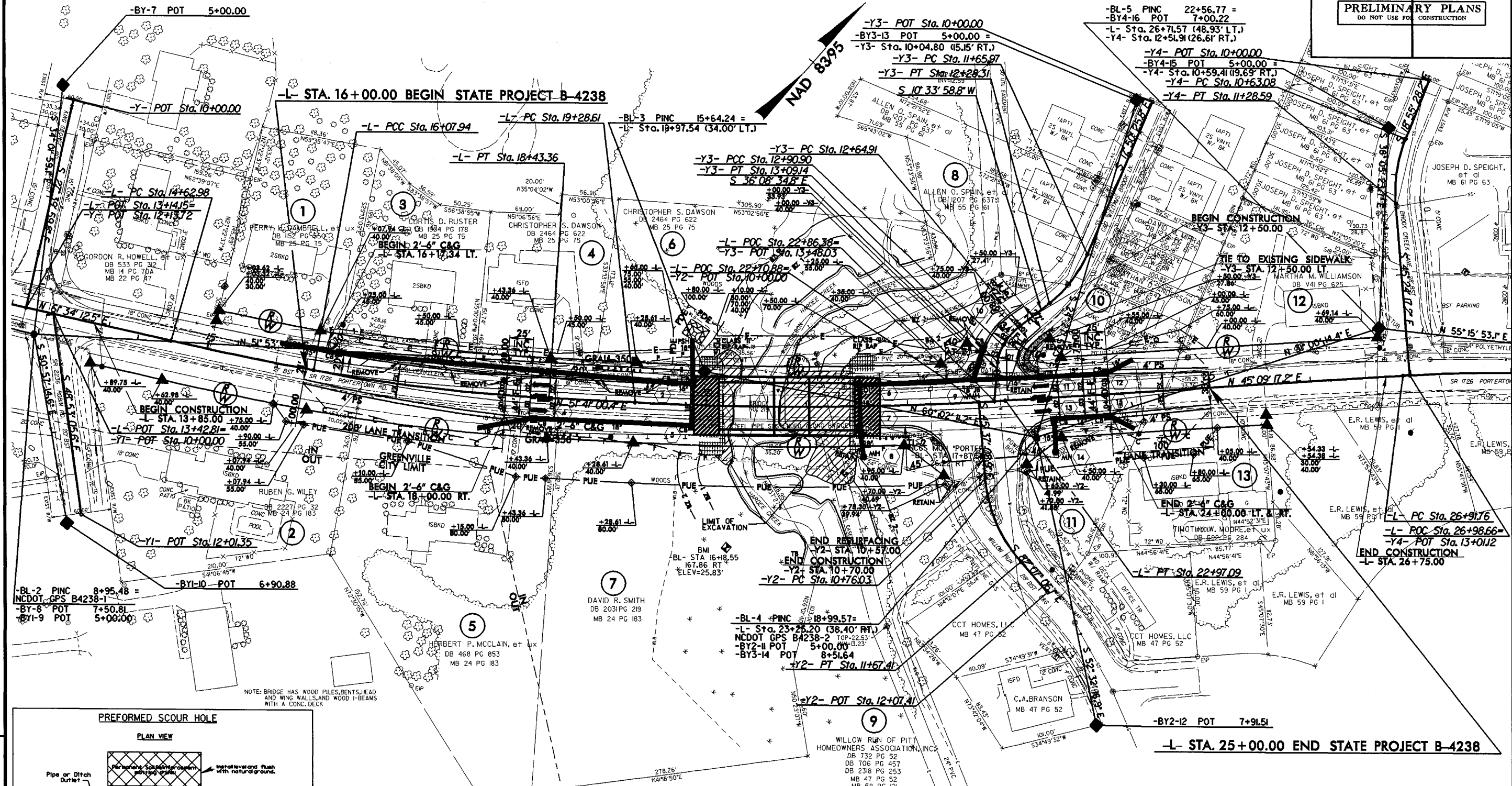
1.15 MILES SR 1728 (LT HARDEE ROAD)
0.70 MILES SR 1727 (EASTERN PINES ROAD)

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3:33:33 PM

| -L- | | | | -Y2- | | -Y3- | | -Y4- | |
|-----------------------------|-----------------------------|-----------------------------|------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|--|
| PI Sta 15+35.47 | PI Sta 17+25.83 | PI Sta 21+13.05 | PI Sta 28+83.47 | PI Sta 11+23.33 | PI Sta 11+97.79 | PI Sta 12+78.05 | PI Sta 13+00.18 | PI Sta 10+96.43 | |
| $\Delta = 2' 17" 26.1 (LT)$ | $\Delta = 7' 35" 46.0 (LT)$ | $\Delta = 6' 31" 43.2 (LT)$ | $\Delta = 16' 01" 14.4 (RT)$ | $\Delta = 36' 29" 57.2 (LT)$ | $\Delta = 28' 24" 24.6 (RT)$ | $\Delta = 20' 52" 03.7 (LT)$ | $\Delta = 25' 50" 29.9 (LT)$ | $\Delta = 26' 28" 49.0 (LT)$ | |
| $D = 1' 34" 48.3"$ | $D = 3' 13" 35.8"$ | $D = 1' 46" 18.3"$ | $D = 4' 12" 20.7"$ | $D = 39' 56" 28.6"$ | $D = 45' 34" 03.7"$ | $D = 80' 11" 41.2"$ | $D = 141' 41" 27.9"$ | $D = 40' 25" 05.3"$ | |
| $L = 144.97'$ | $L = 235.42'$ | $L = 368.49'$ | $L = 380.92'$ | $L = 91.38'$ | $L = 62.34'$ | $L = 25.99'$ | $L = 18.24'$ | $L = 65.52'$ | |
| $T = 72.49'$ | $T = 117.88'$ | $T = 184.44'$ | $T = 191.71'$ | $T = 47.30'$ | $T = 31.82'$ | $T = 13.14'$ | $T = 9.28'$ | $T = 33.35'$ | |
| $R = 3,626.10'$ | $R = 1,775.72'$ | $R = 3,233.85'$ | $R = 1,362.32'$ | $R = 143.45'$ | $R = 125.74'$ | $R = 71.36'$ | $R = 40.44'$ | $R = 141.76'$ | |
| $SE = SEE PLANS$ | | | | | | | | | |

| | |
|---|---------------------|
| PROJECT REFERENCE NO. B-4238 | SHEET NO. 4 |
| ROADWAY DESIGN ENGINEER | HYDRAULICS ENGINEER |
| PRELIMINARY PLANS DO NOT USE FOR CONSTRUCTION | |

REVISIONS
08/27/09 R/W REVISIONS (DWG) - THE PUE WAS ELIMINATED AND THE TCE WAS REVISED ON PARCEL 8 (ALLEN O. SPAIN, et al).



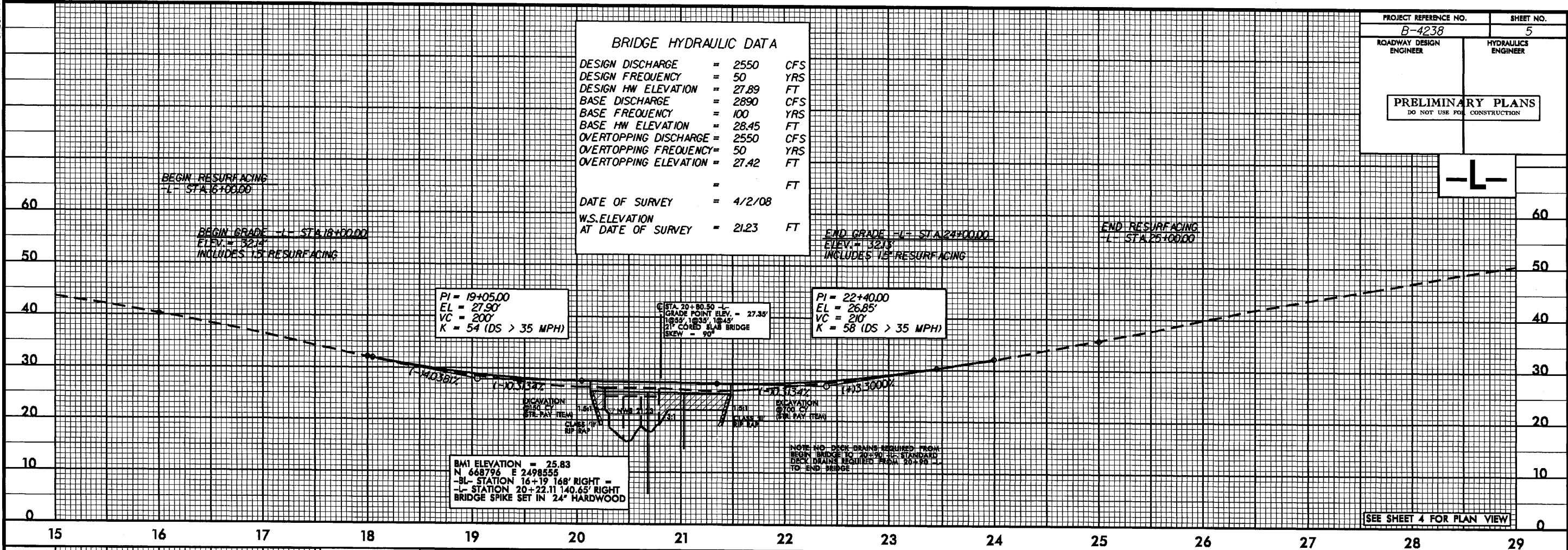
NOTE: SEE SHEET 5 FOR -L-, -Y2-, AND -Y3- PROFILES
SEE SHEETS S-1 THRU S- FOR STRUCTURE PLANS

5/28/09

| | |
|--|---------------------|
| PROJECT REFERENCE NO. B-4238 | SHEET NO. 5 |
| ROADWAY DESIGN ENGINEER | HYDRAULICS ENGINEER |
| PRELIMINARY PLANS DO NOT USE FOR CONSTRUCTION | |

| BRIDGE HYDRAULIC DATA | | |
|----------------------------------|---|----------|
| DESIGN DISCHARGE | = | 2550 CFS |
| DESIGN FREQUENCY | = | 50 YRS |
| DESIGN HW ELEVATION | = | 27.89 FT |
| BASE DISCHARGE | = | 2890 CFS |
| BASE FREQUENCY | = | 100 YRS |
| BASE HW ELEVATION | = | 28.45 FT |
| OVERTOPPING DISCHARGE | = | 2550 CFS |
| OVERTOPPING FREQUENCY | = | 50 YRS |
| OVERTOPPING ELEVATION | = | 27.42 FT |
| DATE OF SURVEY | = | 4/2/08 |
| W.S. ELEVATION AT DATE OF SURVEY | = | 21.23 FT |

-L-



PI = 19+05.00
EL = 27.90'
VC = 200'
K = 54 (DS > 35 MPH)

STA. 20+80.50 -L-
GRADE POINT ELEV. = 27.35'
100% 100% 100%
21' COBES BLAS BRIDGE
SKEW = 90°

PI = 22+40.00
EL = 26.85'
VC = 210'
K = 58 (DS > 35 MPH)

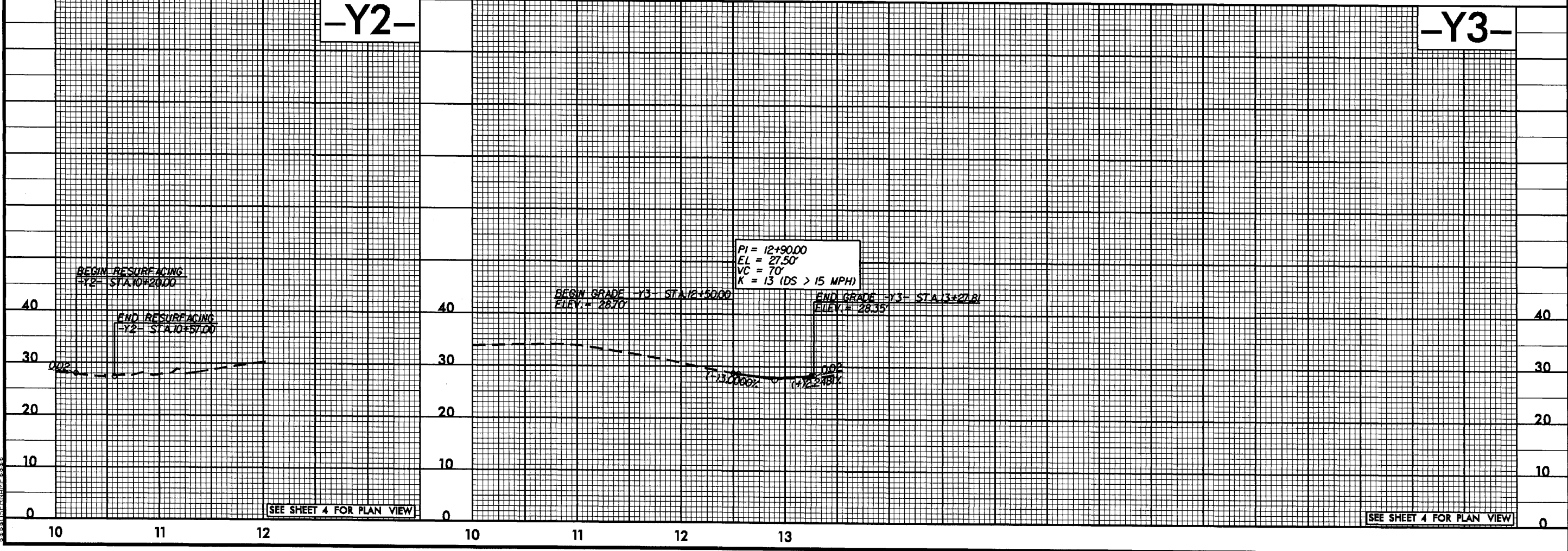
B.M. ELEVATION = 25.83
N 668796 E 2498555
-BL- STATION 16+19 168' RIGHT -
-L- STATION 20+22.11 140.65' RIGHT
BRIDGE SPIKE SET IN 24" HARDWOOD

NOTE: NO DECK BRIMS REQUIRED FROM
BEGIN BRIDGE TO 20+00.00. STANDARD
DECK DRAINS REQUIRED FROM 20+00.00
TO END BRIDGE.

SEE SHEET 4 FOR PLAN VIEW

-Y2-

-Y3-



PI = 12+90.00
EL = 27.50'
VC = 70'
K = 13 (DS > 15 MPH)

BEGIN GRADE -Y3- STA 12+50.00
ELEV. = 28.70'

END GRADE -Y3- STA 13+27.81
ELEV. = 28.35'

SEE SHEET 4 FOR PLAN VIEW

SEE SHEET 4 FOR PLAN VIEW

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