

**PROJECT SPECIAL PROVISION**

(10-18-95)

Z-1

**PERMITS**

The Contractor's attention is directed to the following permits, which have been issued to the Department of Transportation by the authority granting the permit.

<b><u>PERMIT</u></b>	<b><u>AUTHORITY GRANTING THE PERMIT</u></b>
Dredge and Fill and/or Work in Navigable Waters (404)	U. S. Army Corps of Engineers
Water Quality (401)	Division of Environmental Management, DENR State of North Carolina
Buffer Certification	Division of Environmental Management, DENR State of North Carolina
CCPCUA	Division of Water Resources, DENR State of North Carolina

The Contractor shall comply with all applicable permit conditions during construction of this project. Those conditions marked by \* are the responsibility of the department and the Contractor has no responsibility in accomplishing those conditions.

Agents of the permitting authority will periodically inspect the project for adherence to the permits.

The Contractor's attention is also directed to Articles 107-10 and 107-14 of the *Standard Specifications* and the following:

Should the Contractor propose to utilize construction methods (such as temporary structures or fill in waters and/or wetlands for haul roads, work platforms, cofferdams, etc.) not specifically identified in the permit (individual, general, or nationwide) authorizing the project it shall be the Contractor's responsibility to coordinate with the Engineer to determine what, if any, additional permit action is required. The Contractor shall also be responsible for initiating the request for the authorization of such construction method by the permitting agency. The request shall be submitted through the Engineer. The Contractor shall not utilize the construction method until it is approved by the permitting agency. The request normally takes approximately 60 days to process; however, no extensions of time or additional compensation will be granted for delays resulting from the Contractor's request for approval of construction methods not specifically identified in the permit.

**Where construction moratoriums are contained in a permit condition which restricts the Contractor's activities to certain times of the year, those moratoriums will apply only to the portions of the work taking place in the waters or wetlands provided that activities outside those areas is done in such a manner as to not affect the waters or wetlands.**



IN REPLY REFER TO

**DEPARTMENT OF THE ARMY** 244  
**WILMINGTON DISTRICT, CORPS OF ENGINEERS**

Washington Regulatory Field Office  
P.O. Box 1000  
Washington, North Carolina 27889-1000

January 7, 2009

Regulatory Division

Action ID. SAW 2008-02460

Gregory J. Thorpe, Ph.D.  
Environmental Manager Director  
Project Development and Environmental Analysis Branch  
N.C. Department of Transportation  
1548 Mail Service Center  
Raleigh, North Carolina 27699-1548

Dear Dr. Thorpe,

In accordance with your written request of August 5, 2008, and the ensuing administrative record, enclosed are two copies of a permit to construct on new location the final section of Crescent Road (TIP R-2719A), starting from an intersection with existing US 70 east of Falling Creek and continuing northeast approximately four miles on new location to the intersection of US 258 and existing Crescent Road. The project is located west of Kinston in Lenoir County.

You should acknowledge that you accept the terms and conditions of the enclosed permit by signing and dating each copy in the spaces provided ("Permittee" on page 3). Your signature, as permittee, indicates that, as consideration for the issuance of this permit, you voluntarily accept and agree to comply with all of the terms and conditions of this permit. All pages of both copies of the signed permit with drawings should then be returned to the Wilmington District office for final authorization. A self-addressed envelope is enclosed for your convenience.

This correspondence contains an initial proffered permit for the above described activity. If you object to this decision or the enclosed special conditions you may request that the District Commander reconsider his decision. Enclosed you will find a Notification of Appeal Process (NAP) fact sheet and request for appeal (RFA) form. If you request to appeal this decision you must submit a completed RFA form to the District Commander, Wilmington District Corps of Engineers at the following address:

Col. Jefferson Ryscavage, District Commander  
US Army Corps of Engineers, Wilmington District  
Post Office Box 1890  
Wilmington, NC 28402-1890

In order for an RFA to be accepted by the Corps, the Corps must determine that it is complete 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 March 9, 2009.

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

After the permit is authorized in this office, the original copy will be returned to you; the duplicate copy will be permanently retained in this office. If you have questions, please contact William Wescott at the Washington Regulatory Field Office, telephone 252-975-1616 ext. 31.

Sincerely,

A handwritten signature in black ink, appearing to read "David M. Lekson". The signature is fluid and cursive, with a long horizontal stroke at the end.

David M. Lekson, P.W.S.  
Chief, Washington Regulatory Field Office

Enclosures

Blind Copies Furnished:

CESAW-R

Perform work in or affecting navigable waters of the United States, upon recommendation of the Chief of Engineers, pursuant to SECTION 10 of the Rivers and Harbor Act of March 3, 1899

  X   Discharge dredged or fill material into waters of the United States upon the issuance of a permit from the Secretary of the Army acting through the Chief of Engineers pursuant to Section 404 of the Clean Water Act

    Transport dredged material for the purpose of dumping it into ocean waters upon the issuance of a permit from the Secretary of the Army acting through the Chief of Engineers pursuant to Section 103 of the Marine Protection, Research and Sanctuaries Act of 1972

**SPECIAL CONDITIONS (Action ID. SAW 2008-02460; NCDOT/TIP R-2719A)**

COMPLIANCE WITH PLANS

- a) All work must be performed in strict compliance with the attached plans, which are a part of this permit. Any modification to the permit plans must be approved by the USACE prior to implementation.
- b) This authorization is only for TIP R-2719 Section A.

ACTIVITIES NOT AUTHORIZED

- c) Except as authorized by this permit or any USACE approved modification to this permit, no excavation, fill, or mechanized land-clearing activities shall take place at any time in the construction or maintenance of this project, within waters or wetlands, nor shall any activities take place that cause the degradation of waters or wetlands. In addition, except as specified in the plans attached to this permit, no excavation, fill or mechanized land-clearing activities shall take place at any time in the construction or maintenance of this project, in such a manner as to impair normal flows and circulation patterns within, into, or out of waters or wetlands or to reduce the reach of waters or wetlands.

This permit does not authorize temporary placement or double handling of excavated or fill material within jurisdictional waters, including wetlands, outside the permitted area. Additionally, no construction materials or equipment will be placed or stored within jurisdictional waters, including wetlands.

CONSTRUCTION PLANS

- d) The Permittee will ensure that the construction design plans for this project do not deviate from the permit plans attached to this authorization. Written verification shall be provided to Washington Regulatory Field Office that the final construction drawings comply with the attached permit drawings prior to any active construction in waters of the United States, including wetlands. Any deviation in the construction design plans will be brought to the attention of the Corps of Engineers, Washington Regulatory Field Office prior to any active construction in waters or wetlands.
- e) Prior to commencing construction within jurisdictional waters of the United States for any portion of the proposed project, the Permittee shall forward the latest version of project construction drawings to the Corps of Engineers, Washington Regulatory Field Office NCDOT Regulatory Project Manager. Half-size drawings will be acceptable.

POLLUTION SPILLS

f) All mechanized equipment will be regularly inspected and maintained to prevent contamination of waters and wetlands from fuels, lubricants, hydraulic fluids, or other toxic materials. No equipment staging or storage of construction material will occur in wetlands. Hydro-seeding equipment will not be discharged or washed out into any surface waters or wetlands. In the event of a spill of petroleum products or any other hazardous waste, the Permittee shall immediately report it to the N.C. Division of Water Quality at (919) 733-5083 or (800) 662-7956 and provisions of the North Carolina Oil Pollution and Hazardous Substances Control Act will be followed.

#### NOTIFICATION

g) The Permittee shall advise the Corps in writing at least two weeks prior to beginning the work authorized by this permit and again upon completion of the work authorized by this permit.

#### CLEAN FILL MATERIAL

h) Unless otherwise authorized by this permit, all fill material placed in waters or wetlands shall be generated from an upland source and will be clean and free of any pollutants except in trace quantities. Metal products, organic materials (including debris from land clearing activities), or unsightly debris will not be used.

#### CONTRACTOR COMPLIANCE

i) The Permittee shall require its contractors and/or agents to comply with the terms and conditions of this permit in the construction and maintenance of this project, and shall provide each of its contractors and/or agents associated with the construction or maintenance of this project with a copy of this permit, and any authorized modifications. A copy of this permit, and any authorized modifications, including all conditions, shall be available at the project site during construction and maintenance of this project.

#### SEDIMENTATION AND EROSION CONTROL MEASURES

j) The Permittee shall use appropriate sediment and erosion control practices which equal or exceed those outlined in the most recent version of the "North Carolina Sediment and Erosion Control Planning and Design Manual" to assure compliance with the appropriate turbidity water quality standard. Erosion and sediment control practices must be in full compliance with all specifications governing the proper design, installation and operation and maintenance of such Best Management Practices in order to assure compliance with the appropriate turbidity water quality standards. Additionally, the project must remain in full compliance with all aspects of the Sedimentation Pollution Control Act of 1973 (North Carolina General Statutes Chapter 113A Article 4).

Adequate sedimentation and erosion control measures must be implemented prior to any ground disturbing activities to minimize impacts to aquatic resources. These measures must be inspected and maintained regularly, especially following rainfall events. All fill material must be

adequately stabilized at the earliest practicable date to prevent sediment from entering into adjacent waters or wetlands.

The Permittee shall remove all sediment and erosion control measures placed in wetlands or waters, and shall restore natural grades in those areas, prior to project completion.

No fill or excavation for the purposes of sedimentation and erosion control shall occur within jurisdictional waters, including wetlands, unless it is included on the plan drawings and specifically authorized by this permit.

#### REPORTING OF VIOLATIONS

k) The Permittee will report any violation of these conditions or violations of Section 404 of the Clean Water Act to the Corps of Engineers, Washington Regulatory Field Office NCDOT Regulatory Project Manager, within 24 hours of the Permittee's discovery of the violation.

#### COMPLIANCE WITH SPECIAL CONDITIONS

l) Failure to institute and carry out the details of these special conditions, will result in a directive to cease all ongoing and permitted work within waters and/or wetlands associated with the permitted project, or such other remedies and/or fines as the District Engineer or his authorized representatives may seek.

#### PRECONSTRUCTION MEETING

m) The Permittee shall schedule a preconstruction meeting between its representatives, the contractor's representatives, and the Corps of Engineers, Washington Regulatory Field Office, NCDOT Regulatory Project Manager, prior to any work within jurisdictional waters and wetlands to ensure that there is a mutual understanding of all of the terms and conditions contained within this Department of the Army Permit. The Permittee shall provide the Corps of Engineers, Washington Regulatory Field Office, NCDOT Regulatory Project Manager, with a copy of the final plans at least two weeks prior to the preconstruction meeting along with a description of any changes that have been made to the project's design, construction methodology or construction timeframe. The Permittee shall schedule the preconstruction meeting for a time when the Corps of Engineers and North Carolina Division of Water Quality (NCDWQ) Project Managers can attend. The Permittee shall invite the Corps and NCDWQ Project Managers a minimum of thirty (30) days in advance of the scheduled meeting in order to provide those individuals with ample opportunity to schedule and participate in the required meeting.

#### BORROW AND WASTE

n) To ensure that all borrow and waste activities occur on high ground and do not result in the degradation of adjacent wetlands and streams, except as authorized by this permit, the Permittee shall require its contractors and/or agents to identify all areas to be used to borrow material, or to dispose of dredged, fill, or waste material. The Permittee shall provide the Corps of Engineers

with appropriate maps indicating the locations of proposed borrow or waste sites as soon as the Permittee has that information. The Permittee will coordinate with the Corps of Engineers before approving any borrow or waste sites that are within 400 feet of any streams or wetlands. All jurisdictional wetland boundaries on borrow and waste sites shall be verified by the Corps of Engineers and shown on the approved reclamation plans. The Permittee shall ensure that all such areas comply with Special Condition c) of this permit, and shall require and maintain documentation of the location and characteristics of all borrow and disposal sites associated with this project. This information will include data regarding soils, vegetation and hydrology sufficient to clearly demonstrate compliance with the Special Condition c). All information will be available to the Corps of Engineers upon request. NCDOT shall require its contractors to complete and execute reclamation plans for each waste and borrow site and provide written documentation that the reclamation plans have been implemented and all work is completed. This documentation will be provided to the Corps of Engineers within 30 days of the completion of the reclamation work.

**MITIGATION**

o) Compensatory mitigation for the unavoidable impacts to 2.70 acres of riverine wetlands, 9.35 acres of non-riverine wetlands, and 2,363 linear feet of stream associated with the proposed project shall be provided as outlined in the following table.

Project Impacts		Required Mitigation			
Type	Area	Type	Location	Ratio	Credits Required
Riverine	2.7 acres	Restoration	Banks School Rd. Site 2 (on-site)	1:1	0.68 acres
			Jeffery's Warehouse (off-site)	2:1	4.04 acres
Non-Riverine	9.35 acres	Restoration	Casey-King (off-site)	2:1	13.18 acres
			Jeffery's Warehouse (off-site)	2:1	5.52 acres
Stream	2,363 linear feet	Restoration	Banks School Rd. Site 1 (on-site)	1:1	2,077 feet
			Banks School Rd. Site 2 (on-site)	1:1	286 feet

On-site mitigation will be in accordance with the Banks School Road Stream and Wetland Mitigation Site Plan dated January 8, 2008. Wetland mitigation success criteria will include the following. Vegetation success shall be measured by survivability over a 5-year period. Survivability will be based on 320 planted stems/acre after three years and 260 planted stems/acre after five years. Hydrologic success of the sites will be attained by restoration of a hydrologic regime that results in inundation or saturation of the soils within 12 inches of the ground surface for at least 12.5 percent of the growing season. The hydrologic monitoring shall occur over a 5-year period.

p) The Permittee owns Jeffery's Warehouse, and Banks School Rd. Sites 1 & 2 for the purpose of providing wetland and stream mitigation. The Permittee shall maintain the mitigation sites identified above in their natural condition, as altered by the mitigation plans, in perpetuity.



Except as authorized or required by the mitigation plan, prohibited activities on the mitigation properties include, but are not limited to, filling; grading; excavating; earth moving of any kind; construction of roads, walkways, buildings signs, or any other structure; any activity that may alter the drainage patterns on the property; destruction, mowing, or other alteration of vegetation on the property; disposal or storage of any garbage, trash, or other waste material. In addition, the Permittee shall take no action, whether on or off the mitigation properties, which will adversely impact the streams and/or wetlands on the mitigation properties.

q) Condition (p), above, runs with the land. The Permittee shall not sell, lease, or otherwise convey any interest in the mitigation properties without subjecting the properties to legally enforceable restrictions on the use of the properties, to ensure its preservation, approved in writing by the Wilmington District Corps of Engineers.

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

Applicant: NCDOT		File Number: SAW 2008-02460	Date: January 7, 2009
Attached is:			See Section below
X	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 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:  
 U.S. Army Corps of Engineers  
 Attn. Mr. William Wescott, Project Manager  
 Washington Regulatory Field Office  
 Post Office Box 1000  
 Washington, North Carolina 27889

If you only have questions regarding the appeal process you may also contact:  
 Mr. Michael F. 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:
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## DEPARTMENT OF THE ARMY PERMIT

Permittee **North Carolina Department of Transportation, Gregory J. Thorpe, Ph.D.**

Permit No. **SAW 2008-02460**

Issuing Office **CESAW-RG-W**

NOTE: The term "you" and its derivatives, as used in this permit, means the permittee or any future transferee. The term "this office" refers to the appropriate district or division office of the Corps of Engineers having jurisdiction over the permitted activity or the appropriate official of that office acting under the authority of the commanding officer.

You are authorized to perform work in accordance with the terms and conditions specified below.

**Project Description:** The proposed T.I.P. project R-2719 Section A involves constructing a divided multi-lane, full control of access freeway, interchanges at locations with major traffic movements, and grade separations at minor crossroads and railroads. The project is approximately 4 miles long starting east of Falling Creek on US 70, and going northeast on new location to US 258 tie in with the northern section of Crescent Road west of Kinston, Lenoir County. The T.I.P. R-2719 Section A project would permanently impact 12.05 acres of jurisdictional wetlands and 2,363 linear feet of stream. The project would temporarily impact 1.50 acres of jurisdictional wetlands and 1,227 linear feet of stream.

**Project Location:** This project involves the construction of the final section of Crescent Road starting from US 70 east of Falling Creek and continuing northeast approximately four miles on new location to the intersection of US 258 and existing Crescent Road. The project is located west of Kinston in Lenoir County.

**Permit Conditions:**

General Conditions:

1. The time limit for completing the work authorized ends on **December 31, 2013**. If you find that you need more time to complete the authorized activity, submit your request for a time extension to this office for consideration at least one month before the above date is reached.
2. You must maintain the activity authorized by this permit in good condition and in conformance with the terms and conditions of this permit. You are not relieved of this requirement if you abandon the permitted activity, although you may make a good faith transfer to a third party in compliance with General Condition 4 below. Should you wish to cease to maintain the authorized activity or should you desire to abandon it without a good faith transfer, you must obtain a modification of this permit from this office, which may require restoration of the area.
3. If you discover any previously unknown historic or archeological remains while accomplishing the activity authorized by this permit, you must immediately notify this office of what you have found. We will initiate the Federal and state coordination required to determine if the remains warrant a recovery effort or if the site is eligible for listing in the National Register of Historic Places.

4. If you sell the property associated with this permit, you must obtain the signature of the new owner in the space provided and forward a copy of the permit to this office to validate the transfer of this authorization.
5. If a conditioned water quality certification has been issued for your project, you must comply with the conditions specified in the certification as special conditions to this permit. For your convenience, a copy of the certification is attached if it contains such conditions.
6. You must allow representatives from this office to inspect the authorized activity at any time deemed necessary to ensure that it is being or has been accomplished in accordance with the terms and conditions of your permit,

Special Conditions:

**SEE ATTACHED SPECIAL CONDITIONS**

Further Information:

1. Congressional Authorities: You have been authorized to undertake the activity described above pursuant to:
  - ( ) Section 10 of the Rivers and Harbors Act of 1899 (33 U.S.C. 403).
  - (X) Section 404 of the Clean Water Act (33 U.S.C. 1344).
  - ( ) Section 103 of the Marine Protection, Research and Sanctuaries Act of 1972 (33 U.S.C. 1413).
2. Limits of this authorization.
  - a. This permit does not obviate the need to obtain other Federal, state, or local authorizations required by law.
  - b. This permit does not grant any property rights or exclusive privileges.
  - c. This permit does not authorize any injury to the property or rights of others.
  - d. This permit does not authorize interference with any existing or proposed Federal project.
3. Limits of Federal Liability. In issuing this permit, the Federal Government does not assume any liability for the following:
  - a. Damages to the permitted project or uses thereof as a result of other permitted or unpermitted activities or from natural causes.
  - b. Damages to the permitted project or uses thereof as a result of current or future activities undertaken by or on behalf of the United States in the public interest.
  - c. Damages to persons, property, or to other permitted or unpermitted activities or structures caused by the activity authorized by this permit.
  - d. Design or construction deficiencies associated with the permitted work.



**SPECIAL CONDITIONS (Action ID. SAW 2008-02460; NCDOT/TIP R-2719A)**

## COMPLIANCE WITH PLANS

- a) All work must be performed in strict compliance with the attached plans, which are a part of this permit. Any modification to the permit plans must be approved by the USACE prior to implementation.
- b) This authorization is only for TIP R-2719 Section A.

## ACTIVITIES NOT AUTHORIZED

- c) Except as authorized by this permit or any USACE approved modification to this permit, no excavation, fill, or mechanized land-clearing activities shall take place at any time in the construction or maintenance of this project, within waters or wetlands, nor shall any activities take place that cause the degradation of waters or wetlands. In addition, except as specified in the plans attached to this permit, no excavation, fill or mechanized land-clearing activities shall take place at any time in the construction or maintenance of this project, in such a manner as to impair normal flows and circulation patterns within, into, or out of waters or wetlands or to reduce the reach of waters or wetlands.

This permit does not authorize temporary placement or double handling of excavated or fill material within jurisdictional waters, including wetlands, outside the permitted area. Additionally, no construction materials or equipment will be placed or stored within jurisdictional waters, including wetlands.

## CONSTRUCTION PLANS

- d) The Permittee will ensure that the construction design plans for this project do not deviate from the permit plans attached to this authorization. Written verification shall be provided to Washington Regulatory Field Office that the final construction drawings comply with the attached permit drawings prior to any active construction in waters of the United States, including wetlands. Any deviation in the construction design plans will be brought to the attention of the Corps of Engineers, Washington Regulatory Field Office prior to any active construction in waters or wetlands.
- e) Prior to commencing construction within jurisdictional waters of the United States for any portion of the proposed project, the Permittee shall forward the latest version of project construction drawings to the Corps of Engineers, Washington Regulatory Field Office NCDOT Regulatory Project Manager. Half-size drawings will be acceptable.

## POLLUTION SPILLS

- f) All mechanized equipment will be regularly inspected and maintained to prevent contamination of waters and wetlands from fuels, lubricants, hydraulic fluids, or other

toxic materials. No equipment staging or storage of construction material will occur in wetlands. Hydro-seeding equipment will not be discharged or washed out into any surface waters or wetlands. In the event of a spill of petroleum products or any other hazardous waste, the Permittee shall immediately report it to the N.C. Division of Water Quality at (919) 733-5083 or (800) 662-7956 and provisions of the North Carolina Oil Pollution and Hazardous Substances Control Act will be followed.

#### NOTIFICATION

g) The Permittee shall advise the Corps in writing at least two weeks prior to beginning the work authorized by this permit and again upon completion of the work authorized by this permit.

#### CLEAN FILL MATERIAL

h) Unless otherwise authorized by this permit, all fill material placed in waters or wetlands shall be generated from an upland source and will be clean and free of any pollutants except in trace quantities. Metal products, organic materials (including debris from land clearing activities), or unsightly debris will not be used.

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#### SEDIMENTATION AND EROSION CONTROL MEASURES

j) The Permittee shall use appropriate sediment and erosion control practices which equal or exceed those outlined in the most recent version of the "North Carolina Sediment and Erosion Control Planning and Design Manual" to assure compliance with the appropriate turbidity water quality standard. Erosion and sediment control practices must be in full compliance with all specifications governing the proper design, installation and operation and maintenance of such Best Management Practices in order to assure compliance with the appropriate turbidity water quality standards. Additionally, the project must remain in full compliance with all aspects of the Sedimentation Pollution Control Act of 1973 (North Carolina General Statutes Chapter 113A Article 4).

Adequate sedimentation and erosion control measures must be implemented prior to any ground disturbing activities to minimize impacts to aquatic resources. These measures must be inspected and maintained regularly, especially following rainfall events. All fill material must be adequately stabilized at the earliest practicable date to prevent sediment from entering into adjacent waters or wetlands.



The Permittee shall remove all sediment and erosion control measures placed in wetlands or waters, and shall restore natural grades in those areas, prior to project completion.

No fill or excavation for the purposes of sedimentation and erosion control shall occur within jurisdictional waters, including wetlands, unless it is included on the plan drawings and specifically authorized by this permit.

#### REPORTING OF VIOLATIONS

k) The Permittee will report any violation of these conditions or violations of Section 404 of the Clean Water Act to the Corps of Engineers, Washington Regulatory Field Office NCDOT Regulatory Project Manager, within 24 hours of the Permittee's discovery of the violation.

#### COMPLIANCE WITH SPECIAL CONDITIONS

l) Failure to institute and carry out the details of these special conditions, will result in a directive to cease all ongoing and permitted work within waters and/or wetlands associated with the permitted project, or such other remedies and/or fines as the District Engineer or his authorized representatives may seek.

#### PRECONSTRUCTION MEETING

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#### BORROW AND WASTE

n) To ensure that all borrow and waste activities occur on high ground and do not result in the degradation of adjacent wetlands and streams, except as authorized by this permit, the Permittee shall require its contractors and/or agents to identify all areas to be used to borrow material, or to dispose of dredged, fill, or waste material. The Permittee shall

provide the Corps of Engineers with appropriate maps indicating the locations of proposed borrow or waste sites as soon as the Permittee has that information. The Permittee will coordinate with the Corps of Engineers before approving any borrow or waste sites that are within 400 feet of any streams or wetlands. All jurisdictional wetland boundaries on borrow and waste sites shall be verified by the Corps of Engineers and shown on the approved reclamation plans. The Permittee shall ensure that all such areas comply with Special Condition c) of this permit, and shall require and maintain documentation of the location and characteristics of all borrow and disposal sites associated with this project. This information will include data regarding soils, vegetation and hydrology sufficient to clearly demonstrate compliance with the Special Condition c). All information will be available to the Corps of Engineers upon request. NCDOT shall require its contractors to complete and execute reclamation plans for each waste and borrow site and provide written documentation that the reclamation plans have been implemented and all work is completed. This documentation will be provided to the Corps of Engineers within 30 days of the completion of the reclamation work.

#### MITIGATION

o) Compensatory mitigation for the unavoidable impacts to 2.70 acres of riverine wetlands, 9.35 acres of non-riverine wetlands, and 2,363 linear feet of stream associated with the proposed project shall be provided as outlined in the following table.

Project Impacts		Required Mitigation			
Type	Area	Type	Location	Ratio	Credits Required
Riverine	2.7 acres	Restoration	Banks School Rd. Site 2 (on-site)	1:1	0.68 acres
			Jeffery's Warehouse (off-site)	2:1	4.04 acres
Non-Riverine	9.35 acres	Restoration	Casey-King (off-site)	2:1	13.18 acres
			Jeffery's Warehouse (off-site)	2:1	5.52 acres
Stream	2,363 linear feet	Restoration	Banks School Rd. Site 1 (on-site)	1:1	2,077 feet
			Banks School Rd. Site 2 (on-site)	1:1	286 feet

On-site mitigation will be in accordance with the Banks School Road Stream and Wetland Mitigation Site Plan dated January 8, 2008. Wetland mitigation success criteria will include the following. Vegetation success shall be measured by survivability over a 5-year period. Survivability will be based on 320 planted stems/acre after three years and 260 planted stems/acre after five years. Hydrologic success of the sites will be attained by restoration of a hydrologic regime that results in inundation or saturation of the soils

within 12 inches of the ground surface for at least 12.5 percent of the growing season. The hydrologic monitoring shall occur over a 5-year period.

p) The Permittee owns Jeffery's Warehouse, and Banks School Rd. Sites 1 & 2 for the purpose of providing wetland and stream mitigation. The Permittee shall maintain the mitigation sites identified above in their natural condition, as altered by the mitigation plans, in perpetuity. Except as authorized or required by the mitigation plan, prohibited activities on the mitigation properties include, but are not limited to, filling; grading; excavating; earth moving of any kind; construction of roads, walkways, buildings signs, or any other structure; any activity that may alter the drainage patterns on the property; destruction, mowing, or other alteration of vegetation on the property; disposal or storage of any garbage, trash, or other waste material. In addition, the Permittee shall take no action, whether on or off the mitigation properties, which will adversely impact the streams and/or wetlands on the mitigation properties.

q) Condition (p), above, runs with the land. The Permittee shall not sell, lease, or otherwise convey any interest in the mitigation properties without subjecting the properties to legally enforceable restrictions on the use of the properties, to ensure its preservation, approved in writing by the Wilmington District Corps of Engineers.

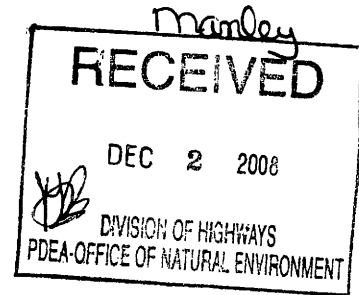


Michael F. Easley, Governor  
William G. Ross Jr., Secretary  
North Carolina Department of Environment and Natural Resources

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Coleen H. Sullins, Director  
Division of Water Quality

November 25, 2008



Dr. Greg Thorpe, PhD., Branch Manager  
Project Development and Environmental Analysis Branch  
North Carolina Department of Transportation  
1598 Mail Service Center  
Raleigh, North Carolina, 27699-1548

Subject: Correction to 401 Water Quality Certification for R-2719A (Crescent Road) in Lenoir County,  
DWQ Project No. 20080314.  
WQC No. 003763

Dear Dr. Thorpe:

This letter is in regards to the 401 Water Quality Certification (WQC) issued on October 28, 2008 for Crescent Road in Lenoir County (DWQ Project No. 20080314). Condition No. 29 of the WQC issued on October 28, 2008 contains the following language:

“No changes to the horizontal or vertical placement of the stormwater outfall locations, the horizontal or vertical placement of the culverts, the horizontal or vertical placement of bridges, the horizontal or vertical placement of grassed swales, or the horizontal or vertical placement of open ditches is permitted without written approval from the NC Division of Water Quality. In addition, no changes to the flow spreader locations or designs, preformed scour hole locations or designs are permitted without written approval from the NC Division of Water Quality.”

This language is hereby corrected to read as follows:

“In riparian buffer areas, no changes to the horizontal or vertical placement of the stormwater outfall locations, the horizontal or vertical placement of the culverts, the horizontal or vertical placement of bridges, the horizontal or vertical placement of grassed swales, or the horizontal or vertical placement of open ditches is permitted without written approval from the NC Division of Water Quality. In addition, no changes to the flow spreader locations or designs, preformed scour hole locations or designs are permitted without written approval from the NC Division of Water Quality.”

Please attach a copy of this letter with any copies of the original Water Quality Certification. All other conditions written into the previous Water Quality Certification for this project dated October 28, 2008 still apply except where superceded by this correction. We are sorry for any inconvenience this may have caused. If you have any questions please contact David Wainwright at (919) 715-3415.

Sincerely,

Coleen H. Sullins,  
Director

cc: William Wescott, US Army Corps of Engineers, Washington Field Office  
Kathy Matthews, Environmental Protection Agency  
Chris Militscher, Environmental Protection Agency  
Travis Wilson, NC Wildlife Resources Commission (electronic)  
Gary Jordan, US Fish and Wildlife Service (electronic)  
Garcy Ward, DWQ Washington Regional Office  
File Copy



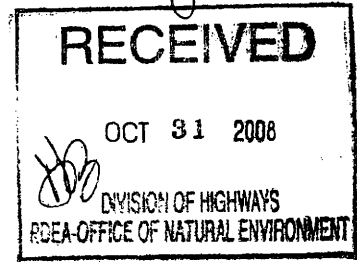
Michael F. Easley, Governor  
William G. Ross Jr., Secretary  
North Carolina Department of Environment and Natural Resources

Coleen Sullins, Director  
Division of Water Quality

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October 28, 2008

Dr. Greg Thorpe, PhD., Branch Manager  
Project Development and Environmental Analysis Branch  
North Carolina Department of Transportation  
1548 Mail Service Center  
Raleigh, North Carolina, 27699-1548



Subject: 401 Water Quality Certification Pursuant to Section 401 of the Federal Clean Water Act and NEUSE BUFFER RULES with ADDITIONAL CONDITIONS for the proposed southern section of Crescent Road from US 70 to US 258 in Lenoir County, Federal Aid Project No. STP-224(3) State Project No. 8.2200101, TIP No. R-2719A.  
DWQ Project No. 20080314  
WQC003763

Dear Dr. Thorpe:

Attached hereto is a copy of Certification No. 003763 issued to The North Carolina Department of Transportation dated October 28, 2008.

If we can be of further assistance, do not hesitate to contact us.

Sincerely,

Coleen Sullins  
Director

Attachments

cc: William Wescott, US Army Corps of Engineers, Washington Field Office  
Kathy Matthews, Environmental Protection Agency  
Chris Militscher, Environmental Protection Agency  
Travis Wilson, NC Wildlife Resources Commission (electronic)  
Gary Jordan, US Fish and Wildlife Service (electronic)  
Garcy Ward, DWQ Washington Regional Office  
File Copy

Transportation Permitting Unit  
1650 Mail Service Center, Raleigh, North Carolina 27699-1650  
2321 Crabtree Boulevard, Suite 250, Raleigh, North Carolina 27604  
Phone: 919-733-1786 / FAX 919-733-6893 / Internet: <http://h2o.enr.state.nc.us/ncwetlands>

One  
North Carolina  
Naturally



**401 Water Quality Certification Pursuant to Section 401 of the Federal Clean Water Act and NEUSE  
 BUFFER RULES with ADDITIONAL CONDITIONS**

**THIS CERTIFICATION** is issued in conformity with the requirements of Section 401 Public Laws 92-500 and 95-217 of the United States and subject to the North Carolina Division of Water Quality (DWQ) Regulations in 15 NCAC 2H .0500 and [15A NCAC 2B .0233]. This certification authorizes the NCDOT to impact 13.22 acres of jurisdictional wetlands, 3,590 linear feet of jurisdictional streams and 348,634 square feet of protected riparian buffers in Lenoir County. The project shall be constructed pursuant to the initial application dated received February 15, 2008 and the revision to the initial application dated received August 6, 2008. The authorized impacts are as described below:

**Stream Impacts in the Neuse River Basin**

Site	Permanent Fill in Intermittent Stream (linear ft.)	Temporary Fill in Intermittent Stream (linear ft)	Permanent Fill in Perennial Stream (linear ft)	Temporary Fill in Perennial Stream (linear ft)	Total Stream Impact (linear ft)	Stream Impacts Requiring Mitigation (linear ft)
1	0	0	499	208	707	499
2	0	0	619	245	864	619
3	158	18	0	0	176	0
4	119	18	0	0	137	0
5A	0	0	50	18	68	0
5B	21	61	0	0	82	0
6	286	36	0	0	322	0
7	0	0	0	0	0	0
8	0	0	0	0	0	0
9	0	0	0	0	0	0
10	0	0	0	0	0	0
11	237	182	0	0	419	0
12	188	155	0	0	343	0
13	0	0	0	0	0	0
14	0	0	0	0	0	0
15	0	0	0	0	0	0
16	0	0	0	0	0	0
17	0	0	0	109	109	0
18	0	0	0	0	0	0
19	186	177	0	0	363	0
<b>TOTAL:</b>	<b>1,195</b>	<b>647</b>	<b>1,168</b>	<b>580</b>	<b>3,590</b>	<b>1,118</b>

**Total Stream Impact for Project: 3,590 linear feet**



**Wetland Impacts in the Neuse River Basin**

Site	Fill (ac)	Fill (temporary) (ac)	Excavation (ac)	Mechanized Clearing (ac)	Hand Clearing (ac)	Total Wetland Impact (ac)
1	0	0	0	0	0	0
2	0	0	0	0	0	0
3	0	0	0	0	0	0
4	0	0	0	0	0	0
5A	0	0	0	0	0	0
5B	0	0	0	0	0	0
6	0	0	0	0	0	0
7	0.03	0	0	0	0.01	0.04
8	2.67	0	0	0	0.2	2.87
9	2.93	0	0	0	0.31	3.24
10	1.96	0	0	0	0.18	2.14
11	1.36	0	0.03	0	0.14	1.53
12	0.94	0	0.01	0	0.10	1.05
13	0.73	0	0.03	0	0.09	0.85
14*	0.91*	0	0.01	0.02	0.04	0.98
15	0.06	0	0	0	0.01	0.07
16	0.36	0	0	0	0.08	0.44
17	0	0	0	0	0	0
18	0	0	0	0	0.01	0.01
19	0	0	0	0	0	0
<b>TOTAL:</b>	<b>11.95</b>	<b>0</b>	<b>0.08</b>	<b>0.02</b>	<b>1.17</b>	<b>13.22</b>

\*An additional impact of 0.02 acres is added to the total impact at Site 14 due to a total taking of the associated wetlands  
**Total Wetland Impact for Project: 13.22 acres.**

**Neuse River Riparian Buffer Impacts**

Site	Zone 1 Impact (sq ft)	minus Wetlands in Zone 1 (sq ft)	= Zone 1 Buffers (not wetlands) (sq ft)	Impact Requiring Mitigation (sq ft)	Zone 1 Buffer Mitigation Required (using 3:1 ratio)	Zone 2 Impact (sq ft)	minus Wetlands in Zone 2 (sq ft)	= Zone 2 Buffers (not wetlands) (sq ft)	Impact Requiring Mitigation (sq ft)	Zone 2 Buffer Mitigation Required (using 1.5:1 ratio)
1	37,815	0	37,815	37,815	113,445	22,339	0	22,339	22,339	33,509
2	49,052	0	49,052	49,052	147,156	29,064	0	29,064	29,064	43,596
3	10,004	0	10,004	10,004	30,012	6,561	0	6,561	6,561	9,842
4	7,794	0	7,794	N/A	N/A	5,174	0	5,174	N/A	N/A
5	4,119	0	4,119	N/A	N/A	2,798	0	2,798	N/A	N/A
6	20,004	0	20,004	N/A	N/A	14,987	0	14,987	N/A	N/A
7	19,349	0	19,349	19,349	58,047	14,532	0	14,532	14,532	21,798
8	21,619	9,646	11,973	11,973	35,919	12,965	5,333	7,632	7,632	11,448
9	17,781	7,787	9,994	9,994	29,982	10,457	4,499	5,958	5,958	8,937
10	0	0	0	N/A	N/A	129	0	129	N/A	N/A
11	6,596	0	6,596	N/A	N/A	4,469	0	4,469	N/A	N/A
12	0	0	0	N/A	N/A	586	0	586	N/A	N/A
13	19,945	0	19,945	19,945	59,835	10,495	0	10,495	10,495	15,743
<b>TOTAL:</b>	<b>214,078</b>	<b>17,433</b>	<b>196,645</b>	<b>158,132</b>	<b>474,396</b>	<b>134,556</b>	<b>9,832</b>	<b>124,724</b>	<b>96,581</b>	<b>144,873</b>

\* N/A = Total for Site is less than 1/3 acre and 150 linear feet of impact, or is allowable and therefore no mitigation required

**Total Buffer Impact for Project: 348,634 square feet.**





The application provides adequate assurance that the discharge of fill material into the waters of the Neuse River Basin in conjunction with the proposed development will not result in a violation of applicable Water Quality Standards and discharge guidelines. Therefore, the State of North Carolina certifies that this activity will not violate the applicable portions of Sections 301, 302, 303, 306, 307 of PL 92-500 and PL 95-217 if conducted in accordance with the application and conditions hereinafter set forth.

This approval is only valid for the purpose and design that you submitted in your application dated received February 15, 2008 and the associated revision dated received August 6, 2008. Should your project change, you are required to notify the DWQ and submit a new application. If the property is sold, the new owner must be given a copy of this Certification and approval letter, and is thereby responsible for complying with all the conditions. If any additional wetland impacts, or stream impacts, for this project (now or in the future) exceed one acre or 150 linear feet, respectively, additional compensatory mitigation may be required as described in 15A NCAC 2H .0506 (h) (6) and (7). For this approval to remain valid, you are required to comply with all the conditions listed below. In addition, you should obtain all other federal, state or local permits before proceeding with your project including (but not limited to) Sediment and Erosion control, Coastal Stormwater, Non-discharge and Water Supply watershed regulations. This Certification shall expire on the same day as the expiration date of the corresponding Corps of Engineers Permit.

**Conditions of Certification:**

**Project Specific Conditions**

1. Two copies of the final construction drawings shall be furnished to NCDWQ Central Office prior to the pre-construction meeting. The permittee shall provide written verification that the final construction drawings comply with the drawings contained in the application dated February 15, 2008 and the revision dated August 5, 2008. Any deviations from the approved drawings are not authorized unless approved by the NC Division of Water Quality.

2. Stream Mitigation:

Compensatory mitigation for impacts to 1,118 linear feet of streams at a replacement ratio of 1:1 is required. Compensatory mitigation for impacts to jurisdictional streams shall be provided by on-site stream restoration of 2,077 linear feet at Banks School Road Mitigation Site 1 (an unnamed tributary to Falling Creek) and 268 linear feet of restoration at the Banks School Road Mitigation Site 2. On-site mitigation at these sites will be provided as follows:

Mitigation Type	Location	Stream length (lf)	Ratio	Credits
Restoration	Banks School Rd. Site 1 (on-site)	2,077	1:1	2,077
Restoration	Banks School Rd. Site 2 (on-site)	268	1:1	268
<b>TOTAL:</b>				<b>2,345</b>

Monitoring of the both stream restoration areas shall consist of Level 1 monitoring requirements. Monitoring shall be performed twice annually (summer and winter) for each year of a five year period following completion of the work. Monitoring activities shall consist of reference photos, plant survival determinations, and visual inspection of stream stability. The sites shall be monitored for five years, provided at least two bankfull events have occurred during this monitoring period. If two bankfull events have not occurred by the end of the five year monitoring period, the NCDOT may, at the DWQ's discretion, cease further monitoring of the site. The two bankfull events should occur within different monitoring years.



On-site stream restoration shall be constructed in accordance with the design submitted in your February 15, 2008 application. Please be reminded that as-builts for the completed streams shall be submitted to the North Carolina Division of Water Quality 401 Wetlands Unit with the as-builts for the rest of the project. If the parameters of this condition are not met, then the permittee shall supply additional stream mitigation for the 1,118 linear feet of impacts. All channel work will be constructed in a dry work area, will be completed and stabilized, and must be approved on site by DWQ staff, prior to diverting water into the new channel. Whenever possible, channel relocations shall be allowed to stabilize for an entire growing season. All enhanced stream segments shall have a 50-foot wide native wooded buffer planted on both sides of the stream unless otherwise authorized by this Certification. A transitional phase incorporating rolled erosion control product (RECP) and appropriate temporary ground cover is allowable.

3. Wetland Mitigation:

Compensatory mitigation for impacts to 12.05 acres of jurisdictional wetlands will be required as a result of this project. Off-site mitigation credits shall be credited at a 2:1 ratio. Mitigation shall be provided as follows:

Mitigation Type	Location	Wetland Type	Impact Amount (ac)	Ratio	Credits Required (ac)
Restoration	Banks School Rd. Site 2 (on-site)	Riverine	0.68	1:1	0.68
Restoration	Jeffrey's Warehouse (off-site)	Riverine	2.02	2:1	4.04
Restoration	Jeffrey's Warehouse (off-site)	Non-riverine	2.76	2:1	5.52
Restoration	Casey-King (off-site)	Non-riverine	6.59	2:1	13.18
<b>TOTAL:</b>			<b>12.05</b>	<b>X</b>	<b>23.42</b>

If there are insufficient credits for 2:1 ratio at either Casey King or Jeffrey's Warehouse, credits must be debited from another site or from EEP. However, credits shall be debited or obtained at a 2:1 ratio. If credits are *not* debited as shown in the above table, the NCDOT shall notify the DWQ, in writing prior to construction, of where credits will be debited. If mitigation is provided through EEP, an acceptance letter shall be submitted to the DWQ.

Wetland mitigation area shall be planted with no less than 680 stems/acre. Vegetation success shall be measured by survivability over a 5-year monitoring period. Survivability will be based on 320 stems/acre after three years and 260 stems after five years. A survey of vegetation during the growing season shall be conducted annually over the five-year monitoring period and submitted to the NC Division of Water Quality. Monitoring should include tree density counts, photo documentation, and plots sufficient enough to demonstrate survival and diversity of tree species. If the surviving vegetation densities are below the required thresholds after the five-year monitoring period, the site may still be declared successful at the discretion of and with written approval from the NC Division of Water Quality.

Hydrologic success of the sites will be attained by restoration of a hydrologic regime that results in inundation or saturation of the soils within 12 inches of the ground surface for at least 12.5 percent of the growing season. The hydrologic monitoring shall persist for a total of five years. After the five-year monitoring period, if the monitoring requirements are not met, the site may still be declared successful at the discretion of and with written approval from the NC Division of Water Quality. Monitoring should include both restoration and enhancement areas.



4. Buffer Mitigation:

Compensatory mitigation for impacts to 158,132 square feet of protected riparian buffers in Zone 1 and 96,581 square feet of protected riparian buffers in Zone 2 shall be required, for a total of 254,713 square feet. Compensatory mitigation will be completed through a combination of both on-site and off-site mitigation as follows:

Location	Credits Proposed
Banks School Road. Site 1 (on-site)	165,963
Banks School Road Site 2 (on-site)	91,476
Crescent Road Site (off-site)	200,376
Jeffrey's Warehouse (off-site)	161,453
<b>TOTAL:</b>	<b>619,268</b>

In accordance with 15A NCAC 02B .0242(9) riparian vegetation re-establishment shall include a minimum of at least 2 native hardwood tree species planted at a density sufficient to provide 320 trees per acre at maturity. The mitigation area shall be placed under a perpetual conservation easement that will provide for protection of the property's nutrient removal efficiencies.

The permittee shall monitor both on-site buffer mitigation sites. Monitoring shall consist of visual review and photo evidence. An annual report shall be submitted to the DWQ for a period of five years showing monitoring results, survival rate/success of tree and vegetation establishment, and that diffuse flow through the riparian buffer has been maintained. The first annual report shall be submitted within one year of final planting. Failure to achieve a buffer density of 320 trees per acre after five years will require the annual report to provide appropriate remedial actions to be implemented and a schedule for implementation. Approval of the final annual report, and a formal "close out" of the mitigation site by the DWQ is required. Additionally, the Jeffrey's Warehouse site, which has currently completed year 1 monitoring, shall continue to be monitored in accordance with the approved monitoring plan. Should either of the Banks School Road sites or Jeffrey's Warehouse site fail to obtain satisfactory results, the DWQ may require the NCDOT to seek appropriate compensatory mitigation from other approved sites or through the EEP.

5. All mitigation sites used for project impact credits shall be under a conservation easement and/or right-of-way agreement which will be maintained in perpetuity by the NCDOT, or if the property is sold, the respective property owner.
6. The culvert at Site 9 will be left at natural ground level to avoid possible draining of the surrounding wetlands. However, all other culverts and other structures in waters, streams, and wetlands shall be placed below the elevation of the streambed by one foot for all culverts with a diameter greater than 48 inches, and 20 percent of the culvert diameter for culverts having a diameter less than 48 inches, to allow low flow passage of water and aquatic life. Design and placement of culverts and other structures including temporary erosion control measures shall not be conducted in a manner that may result in dis-equilibrium of wetlands or streambeds or banks, adjacent to or upstream and down stream of the above structures. The applicant is required to provide evidence that the equilibrium is being maintained if requested in writing by DWQ. If this condition is unable to be met due to bedrock or other limiting features encountered during construction, please contact the NC DWQ for guidance on how to proceed and to determine whether or not a modification to this certification will be required.
7. NC DOT shall use "Design Standards in Sensitive Watersheds" [15A NCAC 4B .0124(a)-(e)] for the entire project. However, due to the size of the project, NC DOT shall not be required to meet 15A NCAC 4B .0124(a) regarding the maximum amount of uncovered acres. Temporary cover (wheat, millet, or similar annual grain) or permanent herbaceous cover should be planted on all bare soil within 15 working days of



ground disturbing activities to provide long-term erosion control. Erosion control matting should be used in conjunction with appropriate seeding on disturbed soils in steep slope and riparian areas. Steep slopes are defined as those slopes graded at an angle which cannot retain vegetative cover. Matting shall be secured in place with staples or wherever possible, live stakes of native trees. Straw mulch and tall fescue shall not be used in riparian areas.

#### General Conditions

8. If concrete is used during construction, a dry work area shall be maintained to prevent direct contact between curing concrete and stream water. Water that inadvertently contacts uncured concrete shall not be discharged to surface waters due to the potential for elevated pH and possible aquatic life and fish kills.
9. The dimension, pattern and profile of the stream above and below the crossing shall not be modified. Disturbed floodplains and streams shall be restored to natural geomorphic conditions.
10. No rock, sand or other materials shall be dredged from the stream channel except where authorized by this certification.
11. The use of rip-rap above the Normal High Water Mark shall be minimized. Any rip-rap placed for stream stabilization shall be placed in stream channels in such a manner that it does not impede aquatic life passage.
12. The Permittee shall ensure that the final design drawings adhere to the certification and to the drawings submitted for approval.
13. All work in or adjacent to stream waters shall be conducted in a dry work area. Approved BMP measures from the most current version of NCDOT Construction and Maintenance Activities manual such as sandbags, rock berms, cofferdams and other diversion structures shall be used to prevent excavation in flowing water.
14. During the construction of the project, no staging of equipment of any kind is permitted in waters of the U.S., or protected riparian buffers.
15. Heavy equipment shall be operated from the banks rather than in the stream channel in order to minimize sedimentation and reduce the introduction of other pollutants into the stream.
16. All mechanized equipment operated near surface waters must be regularly inspected and maintained to prevent contamination of stream waters from fuels, lubricants, hydraulic fluids, or other toxic materials.
17. Discharging hydroseed mixtures and washing out hydroseeders and other equipment in or adjacent to surface waters is prohibited.
18. The permittee and its authorized agents shall conduct its activities in a manner consistent with State water quality standards (including any requirements resulting from compliance with §303(d) of the Clean Water Act) and any other appropriate requirements of State and Federal law. If DWQ determines that such standards or laws are not being met (including the failure to sustain a designated or achieved use) or that State or federal law is being violated, or that further conditions are necessary to assure compliance, DWQ may reevaluate and modify this certification.
19. All fill slopes located in jurisdictional wetlands shall be placed at slopes no flatter than 3:1, unless otherwise authorized by this certification.



20. The outside buffer, wetland or water boundary located within the construction corridor approved by this certification shall be clearly marked by highly visible fencing prior to any land disturbing activities. Impacts to areas within the fencing are prohibited unless otherwise authorized by this certification.
21. The issuance of this certification does not exempt the Permittee from complying with any and all statutes, rules, regulations, or ordinances that may be imposed by other government agencies (i.e. local, state, and federal) having jurisdiction, including but not limited to applicable buffer rules, stormwater management rules, soil erosion and sedimentation control requirements, etc.
22. Native riparian vegetation must be reestablished within the construction limits of the project by the end of the growing season following completion of construction.
23. There shall be no excavation from, or waste disposal into, jurisdictional wetlands or waters associated with this certification without appropriate modification. Should waste or borrow sites, or access roads to waste or borrow sites, be located in wetlands or streams, compensatory mitigation will be required since that is a direct impact from road construction activities.
24. Erosion and sediment control practices must be in full compliance with all specifications governing the proper design, installation and operation and maintenance of such Best Management Practices in order to protect surface waters standards:
  - a. The erosion and sediment control measures for the project must be designed, installed, operated, and maintained in accordance with the most recent version of the *North Carolina Sediment and Erosion Control Planning and Design Manual*.
  - b. The design, installation, operation, and maintenance of the sediment and erosion control measures must be such that they equal, or exceed, the requirements specified in the most recent version of the *North Carolina Sediment and Erosion Control Manual*. The devices shall be maintained on all construction sites, borrow sites, and waste pile (spoil) projects, including contractor-owned or leased borrow pits associated with the project.
  - c. For borrow pit sites, the erosion and sediment control measures must be designed, installed, operated, and maintained in accordance with the most recent version of the *North Carolina Surface Mining Manual*.
  - d. The reclamation measures and implementation must comply with the reclamation in accordance with the requirements of the Sedimentation Pollution Control Act.
25. Sediment and erosion control measures shall not be placed in wetlands or waters unless otherwise approved by this Certification.
26. All stormwater runoff shall be directed as sheetflow through stream buffers at non-erosive velocities, unless otherwise approved by this certification.
27. All riparian buffers impacted by the placement of temporary fill or clearing activities shall be restored to the preconstruction contours and revegetated. Maintained buffers shall be permanently revegetated with non-woody species by the end of the growing season following completion of construction. For the purpose of this condition, maintained buffer areas are defined as areas within the transportation corridor that will be subject to regular DOT maintenance activities including mowing. The area with non-maintained buffers shall be permanently revegetated, with native woody species before the next growing season following completion of construction.
28. Pursuant to NCAC15A 2B .0233(6), sediment and erosion control devices shall not be placed in Zone 1 of any Neuse Buffer without prior approval by the NCDWQ. At this time, the NCDWQ has approved no sediment and erosion control devices in Zone 1, outside of the approved project impacts, anywhere on this



project. Moreover, sediment and erosion control devices shall be allowed in Zone 2 of the buffers provided that Zone 1 is not compromised and that discharge is released as diffuse flow.

29. No changes to the horizontal or vertical placement of the stormwater outfall locations, the horizontal or vertical placement of the culverts, the horizontal or vertical placement of bridges, the horizontal or vertical placement of grassed swales, or the horizontal or vertical placement of open ditches is permitted without written approval from the NC Division of Water Quality. In addition, no changes to the flow spreader locations or designs, preformed scour hole locations or designs are permitted without written approval from the NC Division of Water Quality.
30. A copy of this Water Quality Certification shall be maintained on site at the construction site at all times. In addition, the Water Quality Certification and all subsequent modifications, if any, shall be maintained with the Division Engineer and the on-site project manager.
31. The Permittee shall report any violations of this certification to the Division of Water Quality within 24 hours of discovery.
- \* 32. Upon completion of the project (including any impacts at associated borrow or waste site), the NCDOT Division Engineer shall complete and return the enclosed "Certification of Completion Form" to notify DWQ when all work included in the 401 Certification has been completed.

Violations of any condition herein set forth may result in revocation of this Certification and may result in criminal and/or civil penalties. This Certification shall become null and void unless the above conditions are made conditions of the Federal 404 and/or Coastal Area Management Act Permit. This Certification shall expire upon the expiration of the 404 or CAMA permit.

If this Certification is unacceptable to you have the right to an adjudicatory hearing upon written request within sixty (60) days following receipt of this Certification. This request must be in the form of a written petition conforming to Chapter 150B of the North Carolina General Statutes and filed with the Office of Administrative Hearings, 6714 Mail Service Center, Raleigh, N.C. 27699-6714. If modifications are made to an original Certification, you have the right to an adjudicatory hearing on the modifications upon written request within sixty (60) days following receipt of the Certification. Unless such demands are made, this Certification shall be final and binding.

This the 28th day of October 2008

DIVISION OF WATER QUALITY

Coleen Sullins  
Director

WQC No. 003763



DWQ Project No.: \_\_\_\_\_ County: \_\_\_\_\_

Applicant: \_\_\_\_\_

Project Name: \_\_\_\_\_

Date of Issuance of 401 Water Quality Certification: \_\_\_\_\_

### \*Certificate of Completion

Upon completion of all work approved within the 401 Water Quality Certification or applicable Buffer Rules, and any subsequent modifications, the applicant is required to return this certificate to the 401/Wetlands Unit, North Carolina Division of Water Quality, 1650 Mail Service Center, Raleigh, NC, 27699-1650. This form may be returned to DWQ by the applicant, the applicant's authorized agent, or the project engineer. It is not necessary to send certificates from all of these.

#### **Applicant's Certification**

I, \_\_\_\_\_, hereby state that, to the best of my abilities, due care and diligence was used in the observation of the construction such that the construction was observed to be built within substantial compliance and intent of the 401 Water Quality Certification and Buffer Rules, the approved plans and specifications, and other supporting materials.

Signature: \_\_\_\_\_ Date: \_\_\_\_\_

#### **Agent's Certification**

I, \_\_\_\_\_, hereby state that, to the best of my abilities, due care and diligence was used in the observation of the construction such that the construction was observed to be built within substantial compliance and intent of the 401 Water Quality Certification and Buffer Rules, the approved plans and specifications, and other supporting materials.

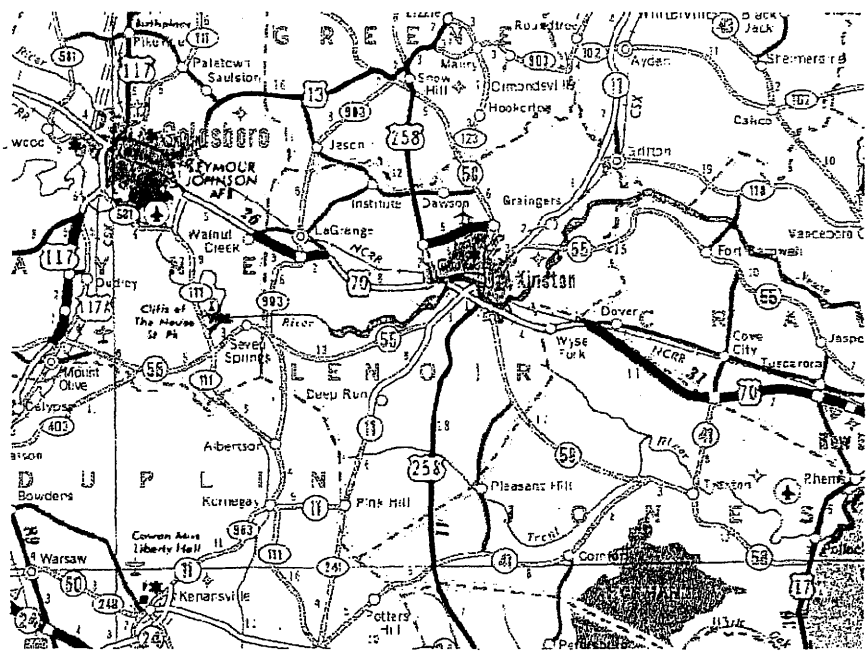
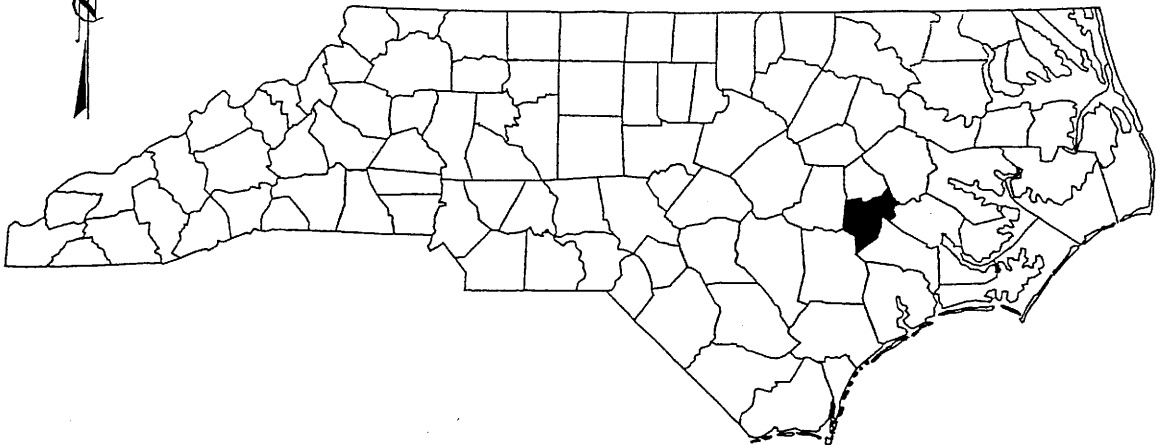
Signature: \_\_\_\_\_ Date: \_\_\_\_\_

#### **If this project was designed by a Certified Professional**

I, \_\_\_\_\_, as a duly registered Professional \_\_\_\_\_ (i.e., Engineer, Landscape Architect, Surveyor, etc.) in the State of North Carolina, having been authorized to observe (periodically, weekly, full time) the construction of the project, for the Permittee hereby state that, to the best of my abilities, due care and diligence was used in the observation of the construction such that the construction was observed to be built within substantial compliance and intent of the 401 Water Quality Certification and Buffer Rules, the approved plans and specifications, and other supporting materials.

Signature \_\_\_\_\_ Registration No. \_\_\_\_\_ Date \_\_\_\_\_

# NORTH CAROLINA



## VICINITY MAP

Permit Drawing  
Sheet 1 of 66

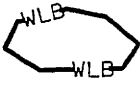
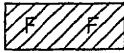
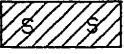

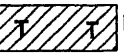
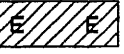
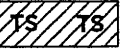

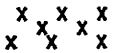

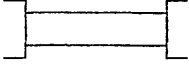
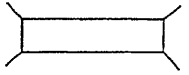


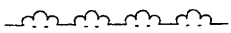

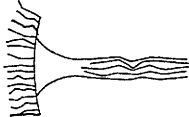



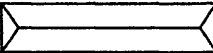
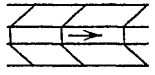
NCDOT  
 DIVISION OF HIGHWAYS  
 LENOIR COUNTY  
 PROJECT: 3450LL1 (R-2719A)  
 CRESCENT ROAD  
 IN KINSTON FROM  
 US 70 TO US 258

C:\p0006\p0006\p0006\new\_permit\3450LL1\2719a\_highway\p0006\buf\_sah\gdn  
 Co. E. Associates, Inc.





# WETLAND LEGEND

<p>— WLB — WETLAND BOUNDARY</p> <p> WETLAND</p> <p> DENOTES FILL IN WETLAND</p> <p> DENOTES PERMANENT SURFACE WATER IMPACTS</p> <p> DENOTES PERMANENT SURFACE WATER IMPACTS (POND)</p> <p> DENOTES TEMPORARY FILL IN WETLAND</p> <p> DENOTES EXCAVATION IN WETLAND</p> <p> DENOTES TEMPORARY SURFACE WATER IMPACTS</p> <p> DENOTES MECHANIZED CLEARING</p> <p>→ → FLOW DIRECTION</p> <p>— TB — TOP OF BANK</p> <p>— WE — EDGE OF WATER</p> <p>— C — PROP. LIMIT OF CUT</p> <p>— F — PROP. LIMIT OF FILL</p> <p>—▲— PROP. RIGHT OF WAY</p> <p>— NG — NATURAL GROUND</p> <p>— PL — PROPERTY LINE</p> <p>— TDE — TEMP. DRAINAGE EASEMENT</p> <p>— PDE — PERMANENT DRAINAGE EASEMENT</p> <p>— EAB — EXIST. ENDANGERED ANIMAL BOUNDARY</p> <p>— EPB — EXIST. ENDANGERED PLANT BOUNDARY</p> <p>—▽— WATER SURFACE</p> <p> LIVE STAKES</p> <p> BOULDER</p> <p>— COIR FIBER ROLLS</p>	<p> PROPOSED BRIDGE</p> <p> PROPOSED BOX CULVERT</p> <p> PROPOSED PIPE CULVERT  <small>(DASHED LINES DENOTE EXISTING STRUCTURES)</small>  <small>12'-48' PIPES          54' PIPES &amp; ABOVE</small></p> <p> SINGLE TREE</p> <p> WOODS LINE</p> <p> DRAINAGE INLET</p> <p> ROOTWAD</p> <p> RIP RAP</p> <p> ADJACENT PROPERTY OWNER OR PARCEL NUMBER IF AVAILABLE</p> <p> PREFORMED SCOUR HOLE</p> <p> LEVEL SPREADER (LS)</p> <p> DITCH / GRASS SWALE</p>
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Permit Drawing  
Sheet 3 of 66

NCDOT

DIVISION OF HIGHWAYS  
LENOIR COUNTY  
PROJECT: 3450111 (R-2719A)  
CRESCENT ROAD  
IN KINSTON FROM  
US 70 TO US 258

SHEET
OF
3 / 20 / 07

3/21/2007  
R:\Village\cullies\New Permits\2719a\_Hyd\_prm\_wet\_tsh.dgn  
K. R. Robinson

## WETLAND IMPACTS SUMMARY OF AFFECTED PROPERTY OWNERS

TRACT NO.	PROPERTY OWNER	ADDRESS	SITE NO.
(8)	FALLING CREEK FARMS INC.	818 WEST MINISTER LN KINSTON, NC 28501	19
(14)	ERWIN W. PARROT, et al	818 WEST MINISTER LN KINSTON, NC 28501	1,2,3 & 4
(16)	PROPERTY OF LENOIR COUNTY	PO BOX 3289 KINSTON, NC 28502-3289	1,2
(33)	FALLING CREEK FARMS INC.	818 WEST MINISTER LN KINSTON, NC 28501	2,5A
(34)	JOHN P. CASEY	2702 BANKS SCHOOL RD KINSTON, NC 28504	5B
(38)	THE STATE OF NORTH CAROLINA	116 WEST JONES ST RALEIGH, NC 27603	5B,6,7
(46)	THE STATE OF NORTH CAROLINA	116 WEST JONES ST RALEIGH, NC 27603	8,9,10,11
(48)	THE STATE OF NORTH CAROLINA	116 WEST JONES ST RALEIGH, NC 27603	9,10,11
(51)	ELLIS A. KING, et al	PO BOX 6007 KINSTON, NC 28502	11,12
(60)	HATTIE E. DALY ESTATE	12807 PINE TREE LANE FORT WASHINGTON, MD 20744	12,13
(67)	NINA L. HILL	2189 PAULS PATH ROAD KINSTON, NC 28504	14
(97)	WILLIAM H. ROUSE, et al	1904 HARDEE ROAD KINSTON, NC 28504	15
(104)	WILLIAM H. ROUSE, et al	1904 HARDEE ROAD KINSTON, NC 28504	16

Permit Drawing  
Sheet 4 of 66



**NCDOT**  
DIVISION OF HIGHWAYS  
LENOIR COUNTY  
PROJECT: 3450111 (R-2719A)  
CRESCENT ROAD  
IN KINSTON FROM  
US 70 TO US 258

SHEET

OF

9 / 21 / 07

WETLAND PERMIT IMPACT SUMMARY															
Site No.	Station (From/To)	Structure Size / Type	WETLAND IMPACTS					SURFACE WATER IMPACTS							
			Permanent Fill In Wetlands (ac)	Temp. Fill In Wetlands (ac)	Excavation in Wetlands (ac)	Mechanized Clearing in Wetlands (ac)	Hand Clearing in Wetlands (ac)	Permanent SW impacts (ac)	Temp. SW impacts (ac)	Existing Channel Impacts Permanent (ft)	Existing Channel Impacts Temp. (ft)	Natural Stream Design (ft)			
1	-Y1- 74+43	3@12'x10' RCBC									0.10	0.05	499	208	
2	-Y1RPCA- 16+14	3@12'x10' RCBC									0.18	0.07	619	245	
3	-L- 69+50	60" RCP									0.01	< 0.01	158	18	
4	-Y1RPCA- 9+20	60" RCP									0.01	< 0.01	119	18	
5A	-SVRD5- 21+90	2@60" RCP									0.02	0.01	50	18	
5B	-L- 87+80 LT	TEMP 2@36" CSP									0.02	< 0.01	21	61	
6*	-L- 103+73	36" RCP									0.03	0.01	286	36	286*
7	-L- 108+40 TO 109+40	Roadway Fill	0.03								< 0.01				
8	-L- 113+26 TO 119+26	Roadway Fill	2.67								0.20				
9	-L- 119+50 TO 127+61	Roadway Fill	2.93								0.31				
10	-L- 127+61 TO 133+27	Roadway Fill	1.96								0.18				
11	-L- 135+50 TO 140+70	2@9'x8' RCBC	1.36		0.03						0.14	0.03	237	182	
12	-L- 150+80 TO 154+00	2@8'x8' RCBC	0.94		0.01						0.10	0.02	188	155	
13	-L- 154+80 TO 158+90	Roadway Fill	0.73		0.03						0.09				
14**	-L- 203+39 TO 206+22	Roadway Fill	0.89		0.01						0.04				
15	-L- 241+20 TO 241+90	Roadway Fill	0.06								0.01				
16	-L- 249+10 TO 253+80	Roadway Fill	0.36								0.08				
17	-Y6- 33+75	TEMP 48" CSP										0.02		109	
18	-Y1- 18+30	EXISTING BRIDGE													
19*	-Y1- 38+22	2@9'x6' RCBC										0.04	186	177	
TOTALS:			11.93	0.00	0.08	0.02	1.15	0.46	0.25	2363	1227	286			

\* SEE MITIGATION PLANS

\*\* The wetland impact to site 14 along right side should be considered as a "total take", and the additional impact area is 0.02 acre. Therefore, the total wetland impact = (0.89+0.01+0.02+0.04)+0.02 = 0.98 acre

Site 5B - Temporary impacts/pipes due to need for Construction Access

0.35 acres of Temporary Fill In Wetlands in the Hand Clearing areas for erosion control measures.

Permit Drawing  
Sheet 5 of 66

NC DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS  
LENOIR COUNTY  
PROJECT: 34501.1.1 (R-2719A)  
SHEET June-08

STATE OF NORTH CAROLINA  
DIVISION OF HIGHWAYS

**LENOIR COUNTY**

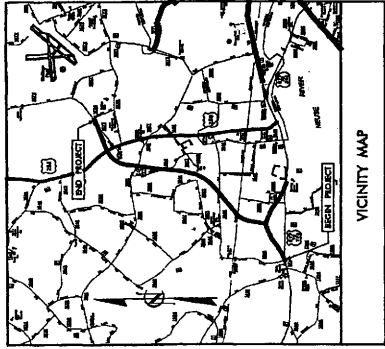
LOCATION: CRESCENT ROAD IN KINSTON FROM  
US 70 TO US 258

TYPE OF WORK: GRADING, PAVING, STRUCTURES, DRAINAGE

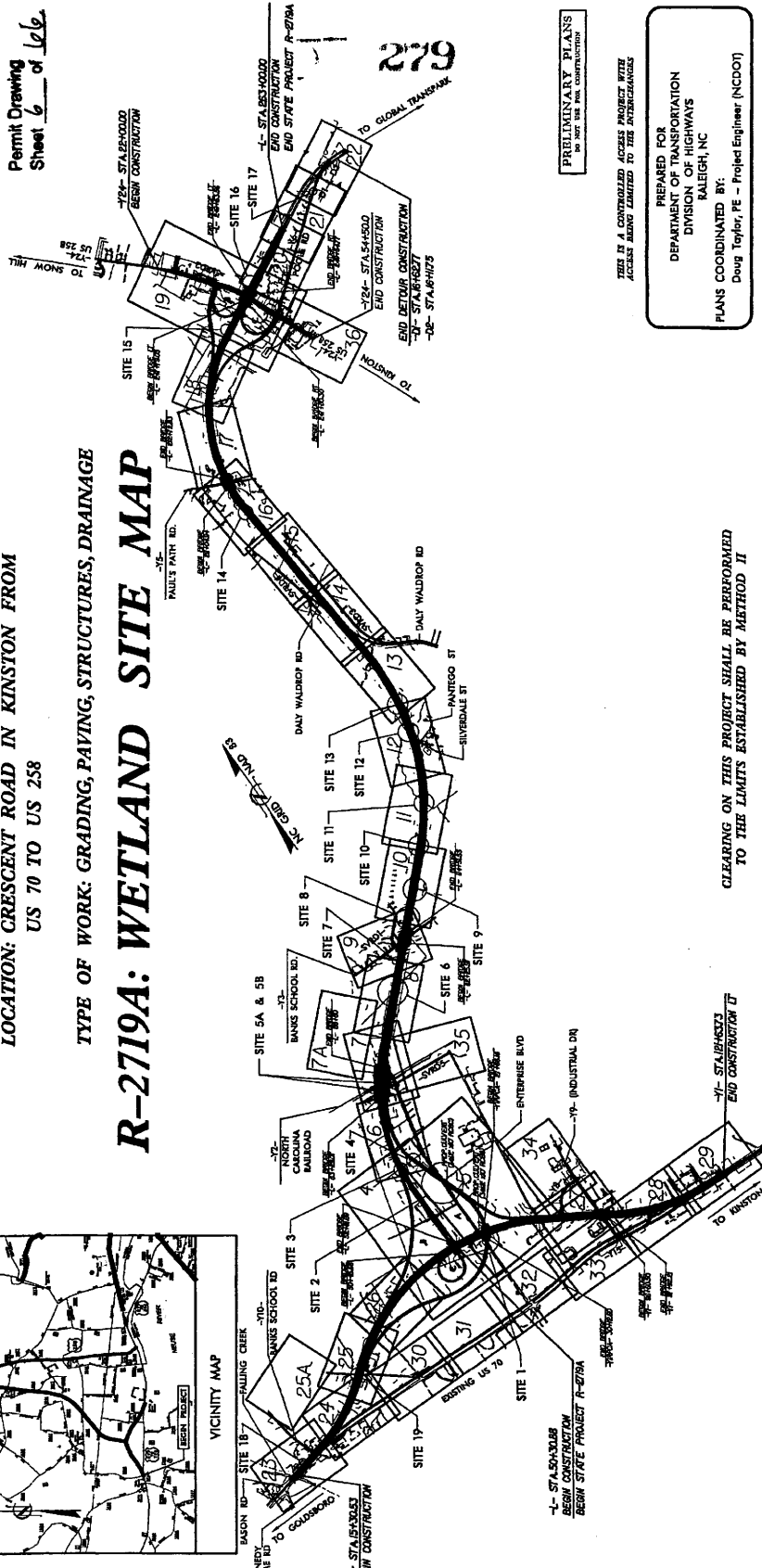
**R-2719A: WETLAND SITE MAP**

STATE	N.C.	PROJECT NUMBER	R-2719A
SHEET	1	DATE	08/20/08
DESIGNER	FE	DATE	08/20/08
CONTRACTOR	ROY, UHL	DATE	08/20/08

Permit Drawing  
Sheet 6 of 166



See Sheet 1-A For Inset of Sheets  
See Sheet 1-B For Standard Symbolic Sheet



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

PRELIMINARY PLANS  
DO NOT USE FOR CONSTRUCTION

THIS IS A CONTROLLED ACCESS PROJECT WITH  
ACCESS ALSO LIMITED TO THE ADJACENCIES

PREPARED FOR  
DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS  
SALEIGH, NC

PLANS COORDINATED BY:  
Doug Taylor, PE - Project Engineer (NCC001)

HYDRAULICS ENGINEER

STATE OF NORTH CAROLINA  
DIVISION OF HIGHWAYS

ROADWAY DESIGN ENGINEER

STATE OF NORTH CAROLINA  
DIVISION OF HIGHWAYS

Prepared for the Division of Highways in the Office of:  
**URS CORPORATION - NORTH CAROLINA**  
1500 Princeton Park Dr., Morrisville, North Carolina 27558  
Telephone (919) 461-1800 Fax (919) 461-4415

RIGHT OF WAY DATE: **TIMOTHY H. KEENER, P.E.**  
PROJECT MANAGER  
AUGUST 31, 2005

LETTING DATE: **MICHAEL LINDGREN, P.E.**  
PROJECT MANAGER  
OCTOBER 2008

PROJECT LENGTH

LENGTH ROADWAY TIP PROJECT R-2719A = 3.772 MI  
LENGTH STRUCTURE TIP PROJECT R-2719A = 0.256 MI  
TOTAL LENGTH OF TIP PROJECT R-2719A = 4.028 MI

NOTE: SOUTHERNDRAIN LINES WERE USED  
FOR PROJECT LENGTH CALCULATIONS

DESIGN DATA

ADT 2007 = 26,510  
ADT 2027 = 46,060  
DHW = 10 %  
D = 55 %  
T = 14 %  
V = 70 MPH

\* TTST 10% DUAL 4%

GRAPHIC SCALES

50 25 0 50 100  
PLANS

50 25 0 50 100  
PROFILE (HORIZONTAL)

5 2.5 0 5 10  
PROFILE (VERTICAL)

TIP PROJECT: R-2719A

CONTRACT:

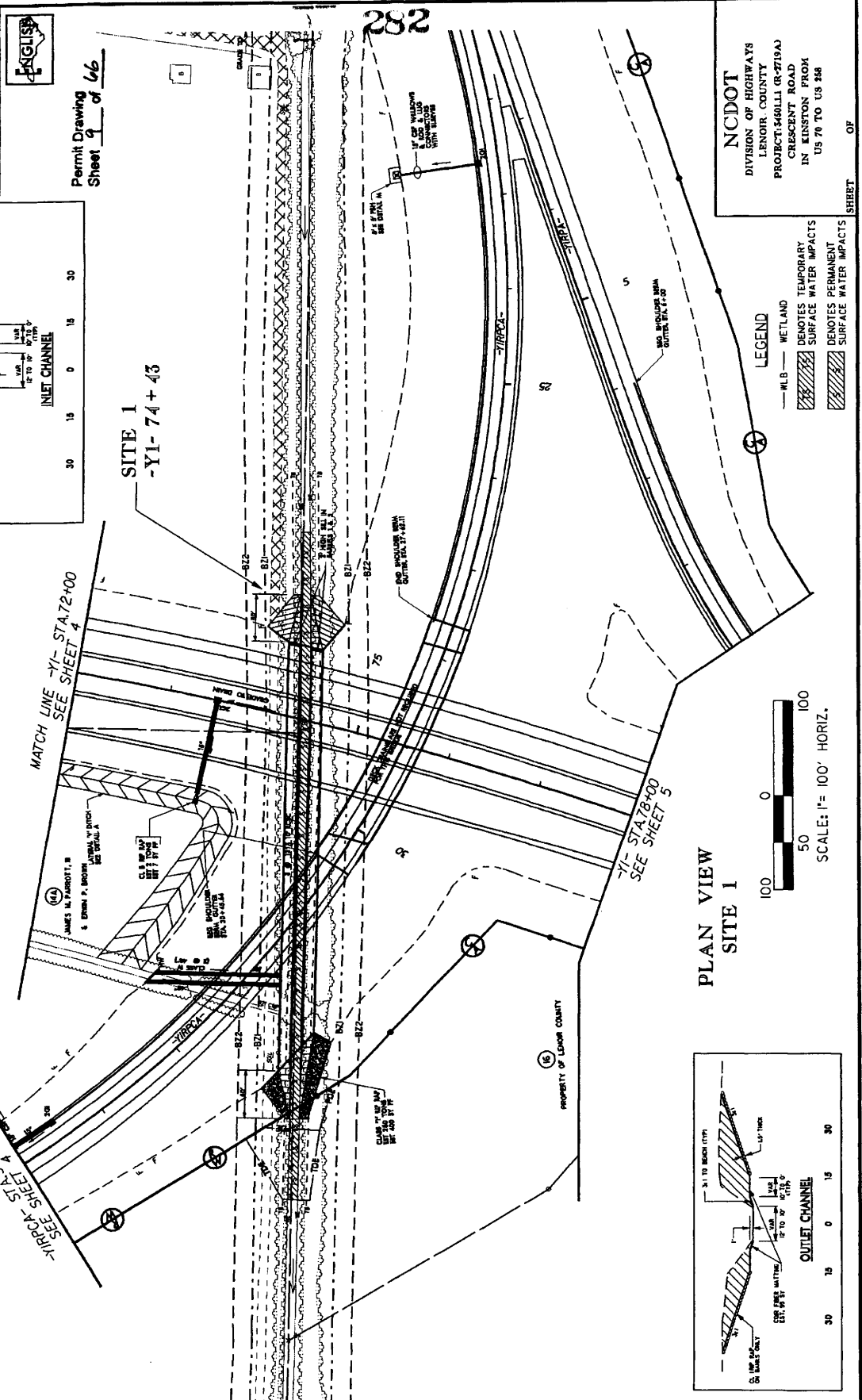
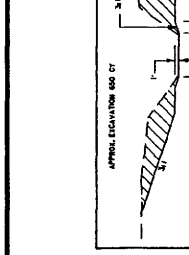




PROJECT NUMBER: 10-273A  
 SHEET NO. 5  
 RAILWAY DESIGN ENGINEER  
 HYDRAULIC ENGINEER

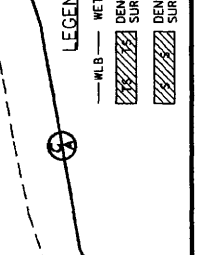
**PRELIMINARY PLANS**  
 DO NOT USE FOR CONSTRUCTION

**URS**  
 CONSULTING ENGINEERS  
 10000 WEST 16TH AVENUE  
 DENVER, COLORADO 80202



**NCDOT**  
 DIVISION OF HIGHWAYS  
 LENOR COUNTY  
 PROJECT: 140111 (R-CP-19A)  
 IN KINSTON FROM  
 US 76 TO US 358

**PLAN VIEW SITE 1**



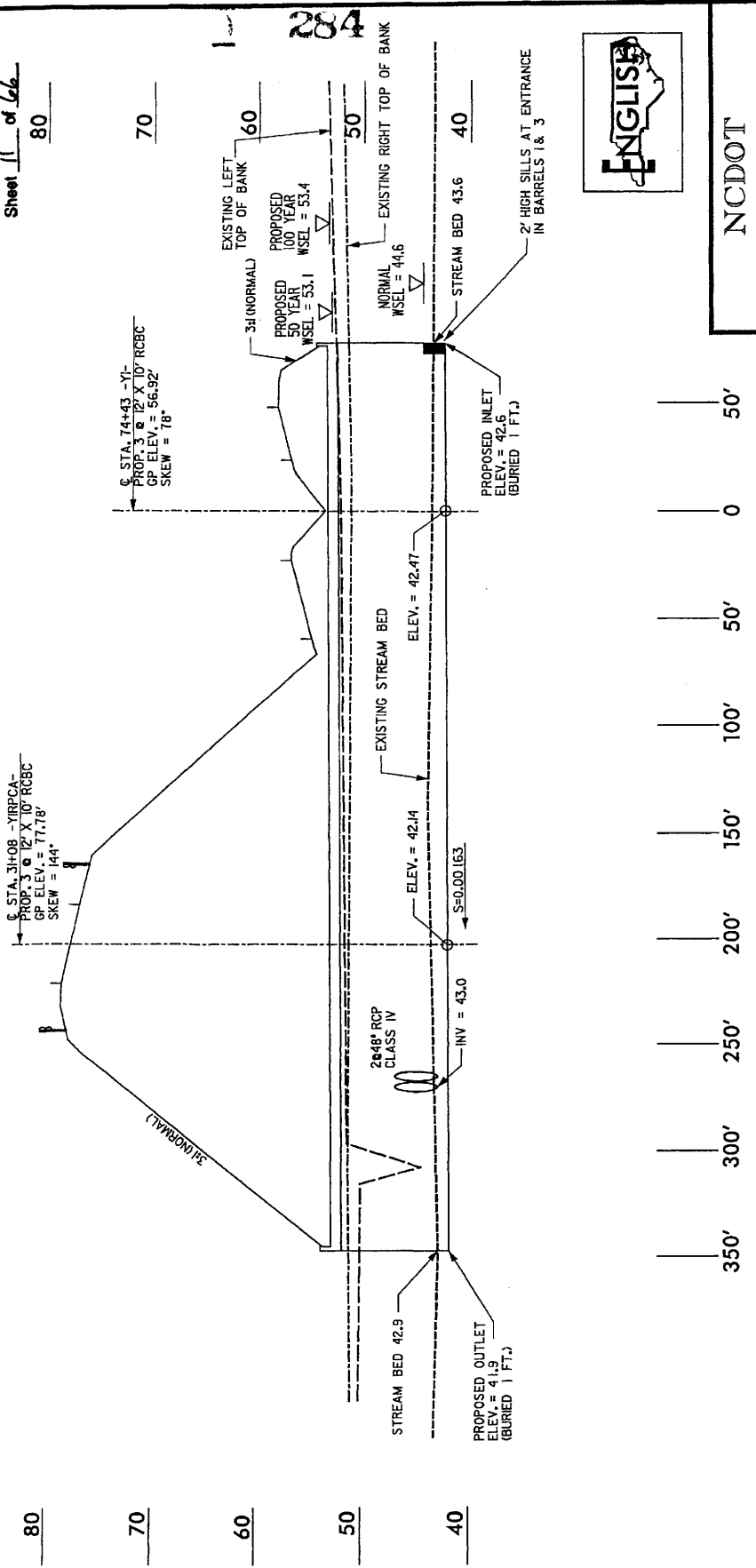




PROJECT NUMBER: 1719A  
 DRAWN BY: J. W. B. / J. W. B.  
 CHECKED BY: J. W. B. / J. W. B.  
 DATE: 5/26/06

PRELIMINARY PLANS  
 DO NOT USE FOR CONSTRUCTION

Permit Drawing  
 Sheet 11 of 16a  
 80



NCDOT  
 DIVISION OF HIGHWAYS  
 LENOIR COUNTY  
 PROJECT: 3460111 (R-2719A)  
 CRESCENT ROAD  
 IN KINSTON FROM  
 US 70 TO US 258

SHEET OF 5/26/06

PROFILE ALONG STRUCTURE  
 SITE 1

SCALE:  
 1" = 50' HORIZONTAL  
 1" = 10' VERTICAL

R:\Hydro\1719a\Permits\2719a\1719a.dwg 5/26/06 9:49:49 AM



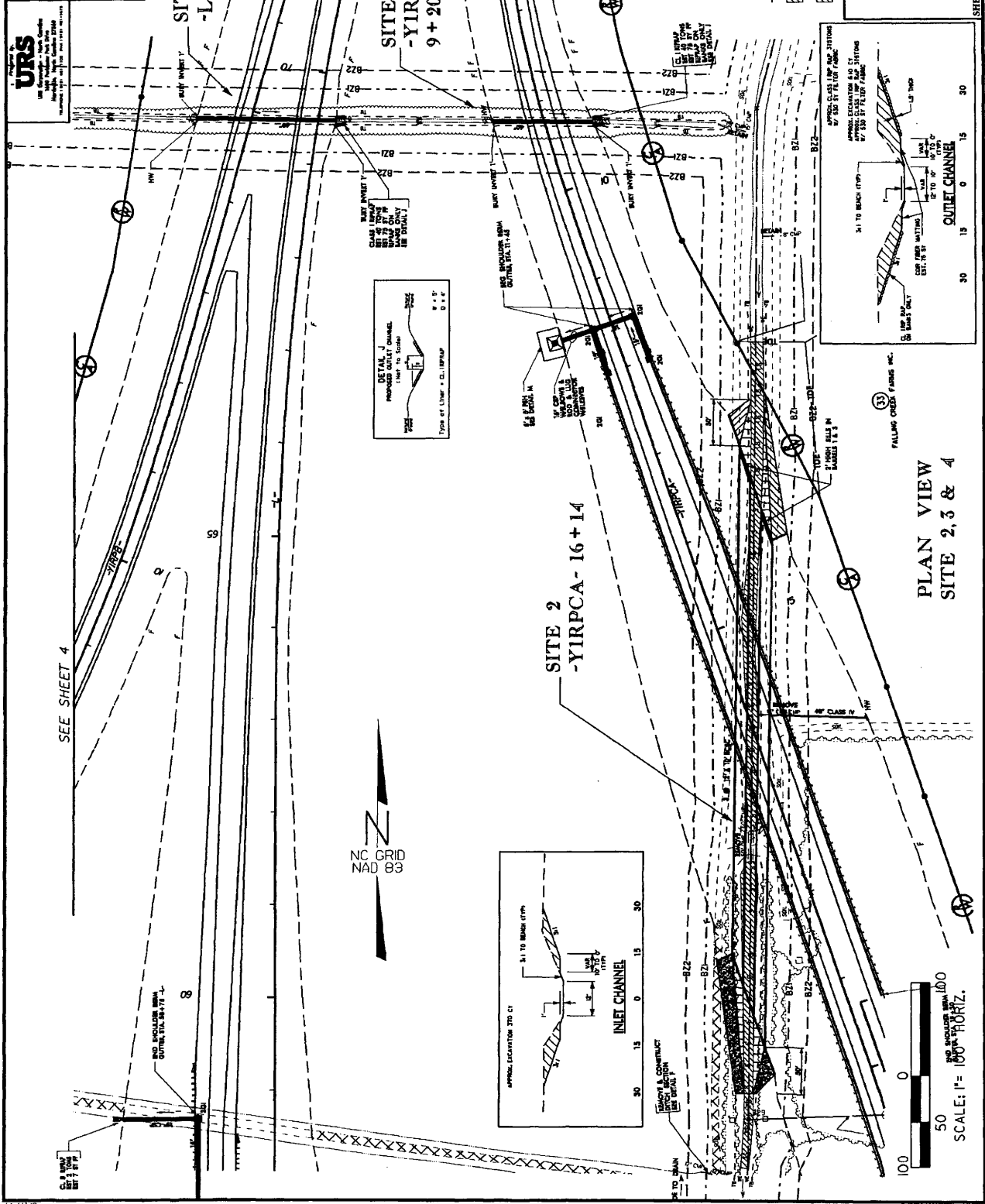
PROJECT REFERENCE NO. R-275/A  
 SHEET NO. 5A  
 CONTRACT NUMBER

PRELIMINARY PLANS  
 FOR PERMIT USE ONLY  
**Permit Drawing**  
 Sheet 13 of 366



982

SEE SHEET 6



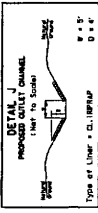
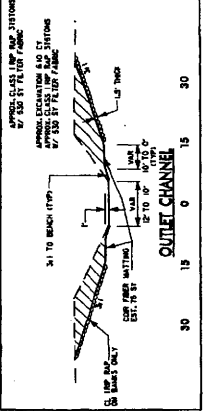
LEGEND

- W/LB — WETLAND
- [Hatched Box] DENOTES TEMPORARY SURFACE WATER IMPACTS
- [Hatched Box] DENOTES PERMANENT SURFACE WATER IMPACTS

**NC DOT**  
 DIVISION OF HIGHWAYS  
 LENOIR COUNTY  
 PROJECT: 3460LLI (R-275/A)  
 CRESCENT ROAD  
 IN KINSTON FROM  
 US 70 TO US 348

SHEET OF

PLAN VIEW  
 SITE 2, 3 & 4



SEE SHEET 4

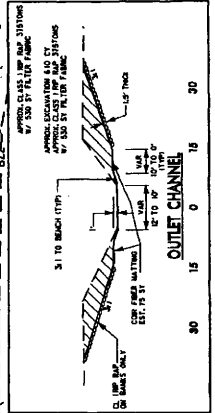
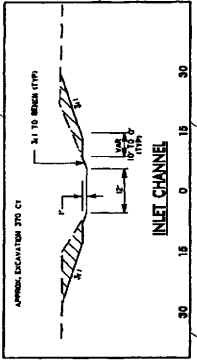
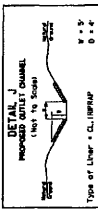
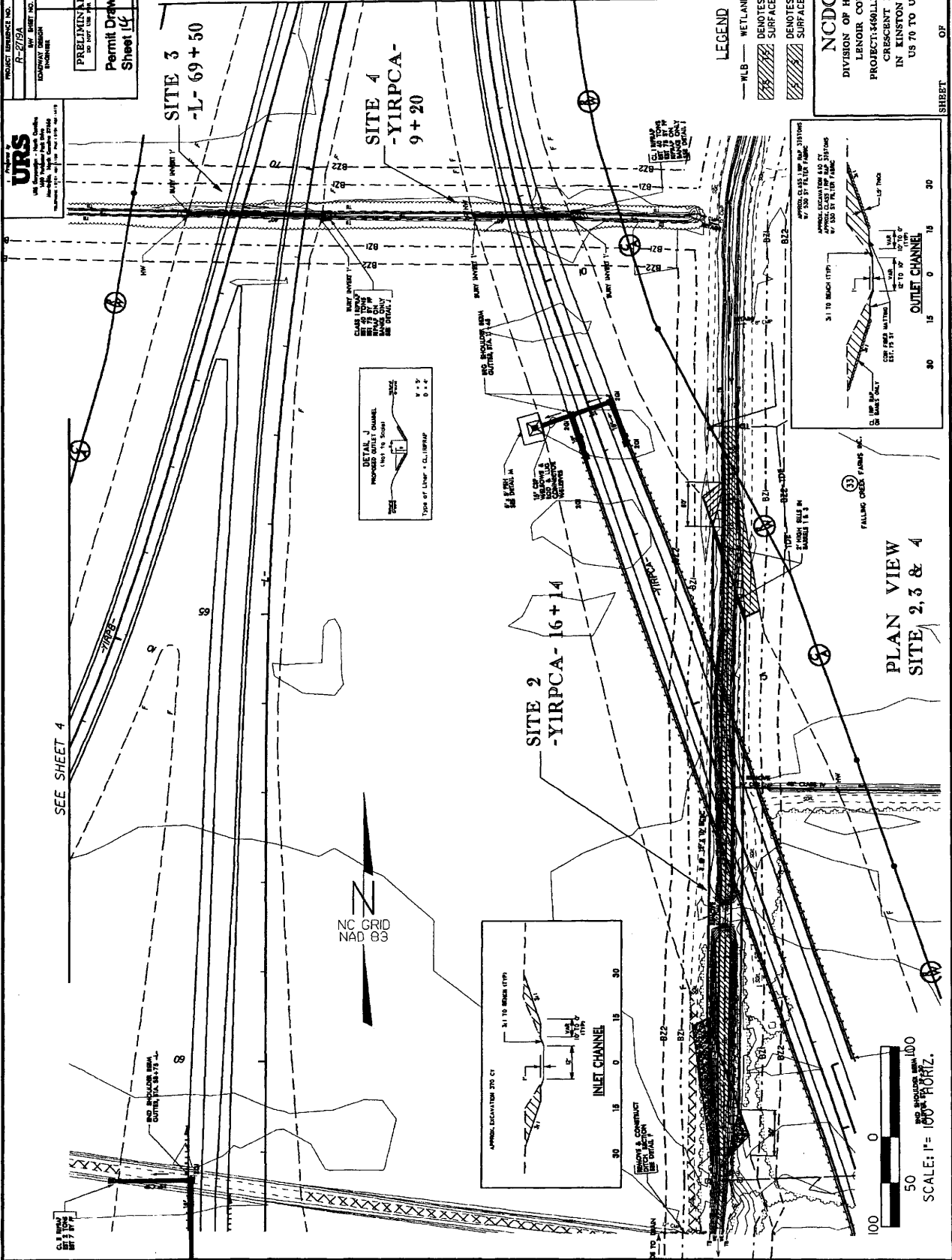
PROJECT REFERENCE NO. R-273A  
 SHEET NO. 54  
 HIGHWAY DESIGN ENGINEER  
 PRELIMINARY PLANS  
 Permit Drawing  
 Sheet 14 of 66

URS  
 CONSULTING ENGINEERS  
 10000 North Carolina Highway 101  
 Raleigh, NC 27617  
 PHONE: 919.873.8800  
 FAX: 919.873.8801  
 WWW.URS-CORP.COM



SEE SHEET 6

287



LEGEND  
 -WLB- WETLAND  
 DENOTES TEMPORARY SURFACE WATER IMPACTS  
 DENOTES PERMANENT SURFACE WATER IMPACTS

NCDOT  
 DIVISION OF HIGHWAYS  
 LENOIR COUNTY  
 PROJECT 3490LLI (R-273A)  
 CRESCENT ROAD  
 IN KINSTON FROM  
 US 70 TO US 488

PLAN VIEW  
 SITE 2, 3 & 4

SCALE: 1" = 100' HORIZ.  
 50  
 100  
 150  
 200

SHEET OF



PROJECT REFERENCE NO. R-2719A  
 ROADWAY DESIGN ENGINEER  
 SHEET NO. 54  
 HYDRAULIC ENGINEER

INCOMPLETE PLANS  
 TO NOT BE USED FOR CONSTRUCTION  
 PRELIMINARY PLANS  
 TO NOT BE USED FOR CONSTRUCTION

Permit Drawing  
 Sheet 16 of 16  
 ENGLISH

NOTE FOR YIRPCA PLAN, SEE SHEETS 5-6

Presented by  
**URS**  
 URS Corporation, 4000 North Lincoln Avenue  
 Suite 1000, Lincoln, Nebraska 68504-2100  
 Telephone: (402) 441-1000 Fax: (402) 441-1001

5.0 TITLE SHEET  
 5.5 HYDRAULIC DESIGN  
 5.6 YIRPCA PLAN SHEETS

CONSULTANT  
 R/W REV.

**SITE 1**  
 PIPE INVERTAL DATA  
 STATIONING  
 INVERTAL  
 GRADE  
 SLOPE  
 COVER  
 MATERIAL  
 MANHOLE  
 SIZE  
 DATE

PI = 4+00.00  
 EL = 82.15'  
 VC = 200'  
 K = 135

PI = 8+50.00  
 EL = 51.50'  
 VC = 700'  
 K = 117

PI = 17+30.00  
 EL = 83.80'  
 VC = 4400'  
 K = 104

PI = 23+40.00  
 EL = 77.00'  
 VC = 360'  
 K = 86

PI = 23+40.00  
 EL = 77.00'  
 VC = 360'  
 K = 86

PI = 17+30.00  
 EL = 83.80'  
 VC = 4400'  
 K = 104

PI = 8+50.00  
 EL = 51.50'  
 VC = 700'  
 K = 117

PI = 4+00.00  
 EL = 82.15'  
 VC = 200'  
 K = 135

PI = 17+30.00  
 EL = 83.80'  
 VC = 4400'  
 K = 104

PI = 8+50.00  
 EL = 51.50'  
 VC = 700'  
 K = 117

PI = 4+00.00  
 EL = 82.15'  
 VC = 200'  
 K = 135

PI = 8+50.00  
 EL = 51.50'  
 VC = 700'  
 K = 117

PI = 17+30.00  
 EL = 83.80'  
 VC = 4400'  
 K = 104

PI = 23+40.00  
 EL = 77.00'  
 VC = 360'  
 K = 86

PI = 23+40.00  
 EL = 77.00'  
 VC = 360'  
 K = 86

PI = 17+30.00  
 EL = 83.80'  
 VC = 4400'  
 K = 104

PI = 8+50.00  
 EL = 51.50'  
 VC = 700'  
 K = 117

PI = 4+00.00  
 EL = 82.15'  
 VC = 200'  
 K = 135

PI = 8+50.00  
 EL = 51.50'  
 VC = 700'  
 K = 117

PI = 17+30.00  
 EL = 83.80'  
 VC = 4400'  
 K = 104

PI = 23+40.00  
 EL = 77.00'  
 VC = 360'  
 K = 86

PI = 23+40.00  
 EL = 77.00'  
 VC = 360'  
 K = 86

85

80

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50

45

40

0+00

1+00

2+00

3+00

4+00

5+00

6+00

7+00

8+00

9+00

10+00

11+00

12+00

13+00

85

80

75

70

65

60

55

50

45

40

0+00

1+00

2+00

3+00

4+00

5+00

6+00

7+00

8+00

9+00

10+00

11+00

12+00

13+00

85

80

75

70

65

60

55

50

45

40

0+00

1+00

2+00

3+00

4+00

5+00

6+00

7+00

8+00

9+00

10+00

11+00

12+00

13+00

85

80

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0+00

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2+00

3+00

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11+00

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13+00

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5+00

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3+00

4+00

5+00

6+00

7+00

8+00

9+00

10+00

11+00

12+00

13+00

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75

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45

40

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1+00

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3+00

4+00

5+00

6+00

7+00

8+00

9+00

10+00

11+00

12+00

13+00

85

80

75

70

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45

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0+00

1+00

2+00

3+00

4+00

5+00

6+00

7+00

8+00

9+00

10+00

11+00

12+00

13+00

85

80

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3+0





PROJECT NUMBER NO.	R-2719A	SHEET NO.	7
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER		
PRELIMINARY PLANS NO PART USE AND CONSTRUCTION			



Permit Drawing  
Sheet 18 of 66

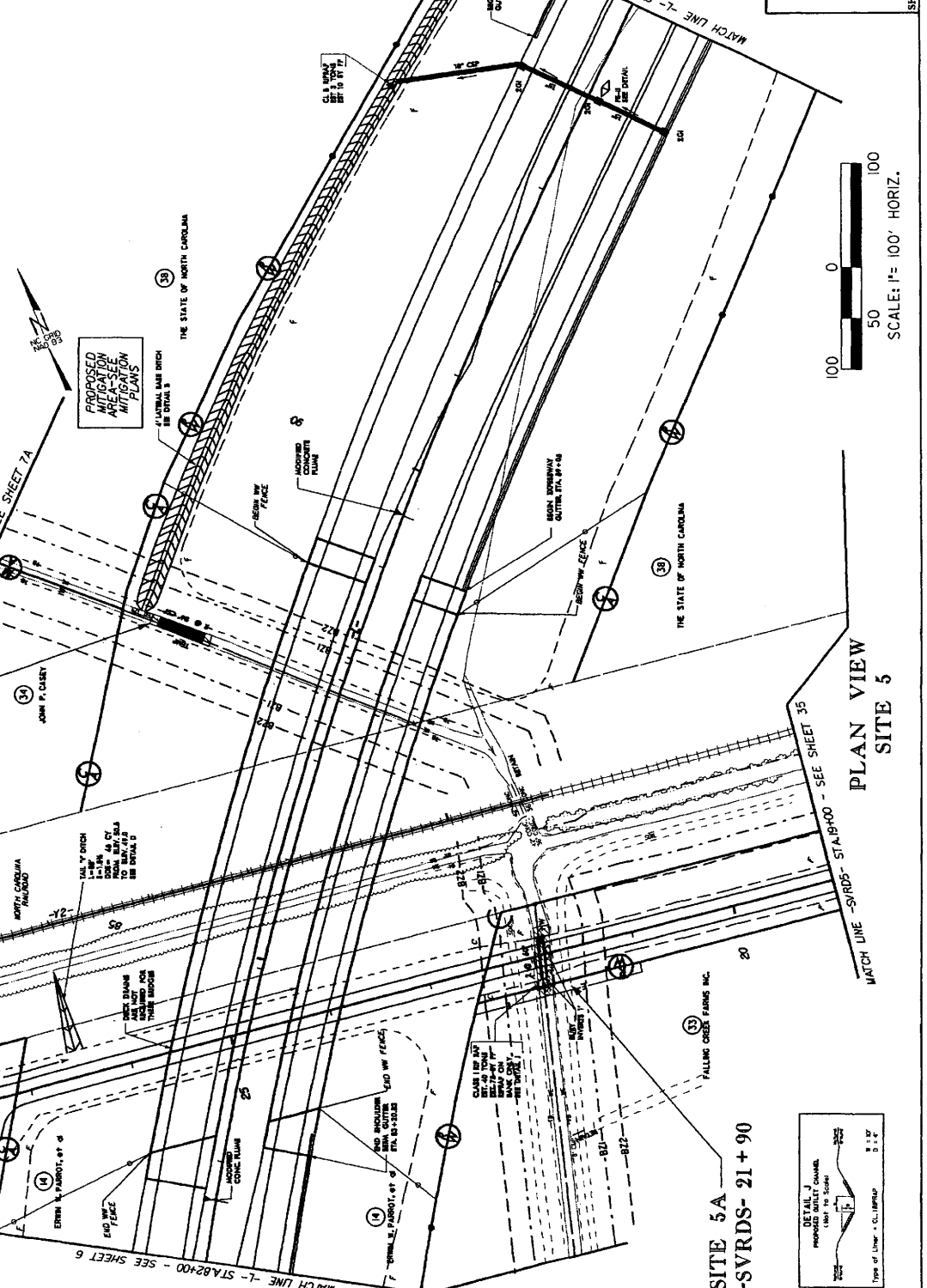
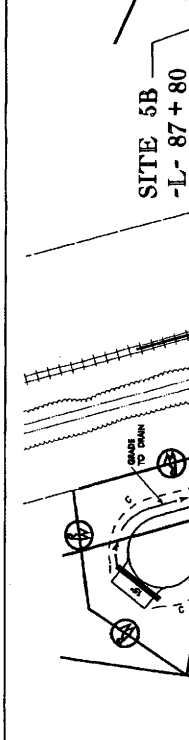
**URS**  
UNIVERSITY RESOURCES CORPORATION  
10000 North Central Expressway  
Suite 200  
Dallas, Texas 75243-2000  
Phone: 972.968.6000  
Fax: 972.968.6001  
www.urscorp.com

**GRAPHIC SCALE**  
1" = 100'  
PLANS

NOTE: FOR -L- PROFILE SEE SHEETS 38 & 39  
FOR -SVRDS- PROFILE SEE SHEET 12  
SEE SHEET 2-L FOR DRAINAGE DITCH DETAILS  
MILLED RUMBLE STRIPS SHALL BE PLACED ON -L-  
ACCORDING TO NCDOT STANDARD DRAWING NO.66501

**-L- CURVE DATA**

PI STA 78+90.00	PIs STA 91+87.65
Δ = 47° 36' 25.7" (RT)	GS = 2° 35' 44.7"
L = 1.38' (LS)	LS = 96.00'
L = 1.38' (SS)	SS = 96.00'
R = 1.5000.00'	ST = 122.03'
R = 68'	BT = 68'

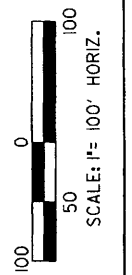


**LEGEND**

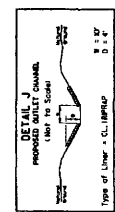
- WLB --- WETLAND
- DENOTES TEMPORARY SURFACE WATER IMPACTS
- DENOTES PERMANENT SURFACE WATER IMPACTS

**NCDOT**  
DIVISION OF HIGHWAYS  
LENDER COUNTY  
PROJECT: 5460LLI (R-2719A)  
CRESCENT ROAD  
IN KINSTON FROM  
US 70 TO US 258

SHEET OF



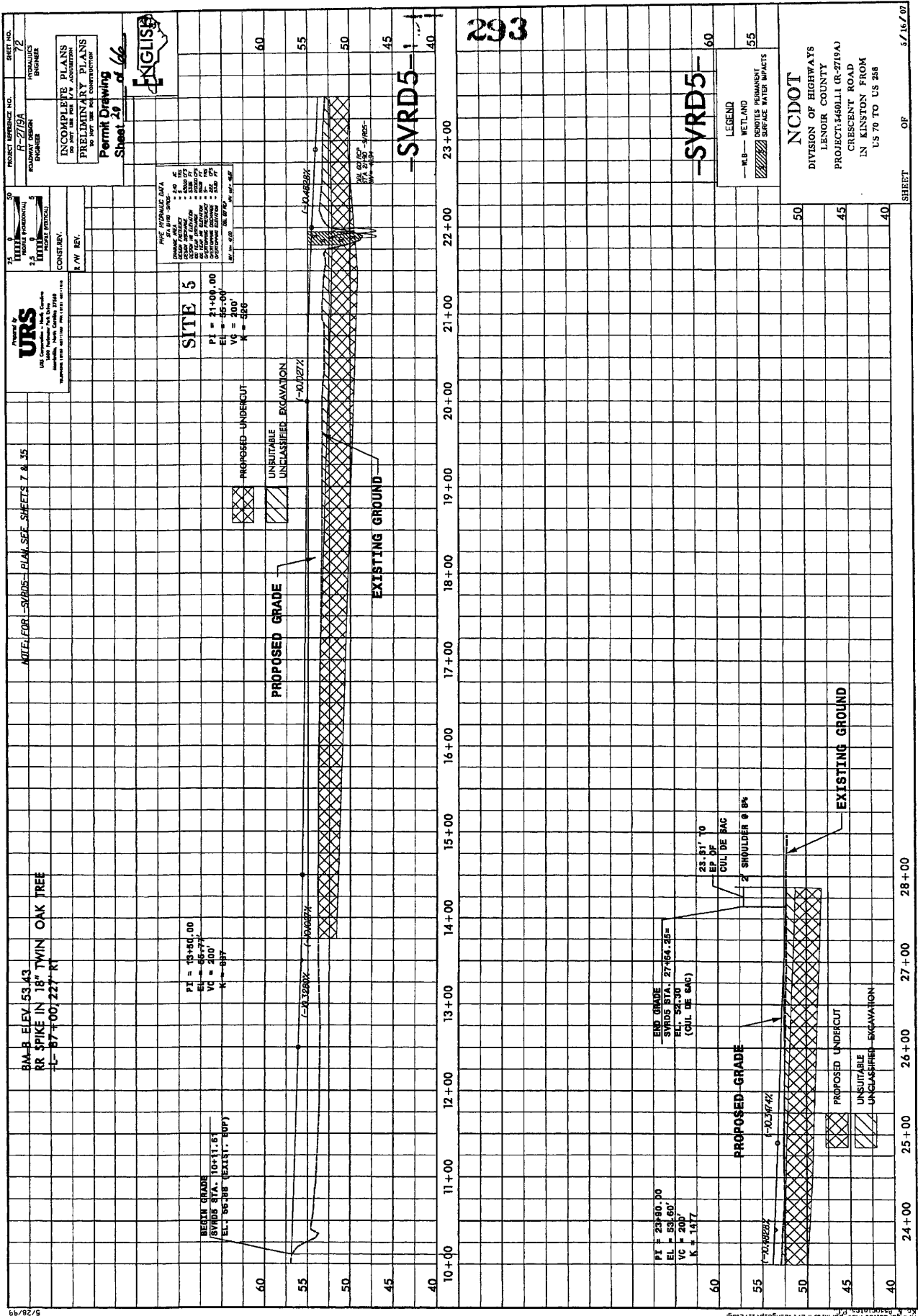
PLAN VIEW  
SITE 5



REVISIONS

DATE: 01/04/06 - REVISED TWO PACE NUMBERS IN UPPER LEFT AREA OF SHEET FROM 33 TO 14  
 REASON: PAGES 28-30 ADDED MATCHLINE TO SHEET 7A AND ADDED MITIGATION AREA BOUNDARY  
 DATE: 08/09/05  
 REASON: PAGES 28-30 ADDED MATCHLINE TO SHEET 7A AND ADDED MITIGATION AREA BOUNDARY  
 DATE: 01/22/04





PROJECT REFERENCE NO. R-2719A  
 ROADWAY DESIGN STAGES

31 30  
 2.5 2.0  
 1.5 1.0  
 0.5 0.0  
 CONST. REV.

URS  
 URS CORPORATION  
 1000 North Carolina Street  
 Raleigh, North Carolina 27601  
 Telephone: 919.733.1111  
 Fax: 919.733.1112

NOTE: FOR SVRDS- PLAN SEE SHEETS T & 35

RM-B ELEV 53.43  
 RR SPIKE IN 18" TWIN OAK TREE  
 L-87+00/227 R

PI = 13+96.00  
 EL = 52.77  
 VC = 200'  
 K = -817

BEGIN GRADE  
 SVRDS STA. 10+11.87  
 EL. 56.86 (EXIST. SURF)

PI = 14+00.00  
 EL = 52.07  
 VC = 200'  
 K = -880

PI = 23+80.00  
 EL = 53.60  
 VC = 200'  
 K = 1477

END GRADE  
 SVRDS STA. 27+84.25=  
 EL. 52.30  
 (CUL DE SAC)

INCORPORATE PLANS  
 PRELIMINARY PLANS  
 PERMITS  
 PERMIT DRAWING  
 SHEET 20 OF 66

ENGLISH

FILE HYDRAULIC DATA  
 CHANNEL: 44.00  
 CHANNEL WIDTH: 30.00  
 CHANNEL LENGTH: 100.00  
 CHANNEL SLOPE: 0.001  
 CHANNEL MATERIAL: CONCRETE  
 CHANNEL TYPE: OPEN CHANNEL  
 CHANNEL CROSS SECTION: RECTANGULAR  
 CHANNEL COEFFICIENT: 1.49  
 CHANNEL VELOCITY: 1.49  
 CHANNEL DISCHARGE: 1.49  
 CHANNEL FLOW: 1.49

PROPOSED UNDERCUT  
 UNUSABLE UNCLASSIFIED EXCAVATION

EXISTING GROUND

PROPOSED GRADE

PROPOSED GRADE

PROPOSED UNDERCUT  
 UNUSABLE UNCLASSIFIED EXCAVATION

EXISTING GROUND

LEGEND  
 -WB- WETLAND  
 -SW- SURFACE WATER IMPACTS

NC DOT  
 DIVISION OF HIGHWAYS  
 LENOIR COUNTY  
 PROJECT: 4690LI (R-2719A)  
 CRESCENT ROAD  
 IN KINSTON FROM  
 US 70 TO US 248

SHEET 20 OF 66

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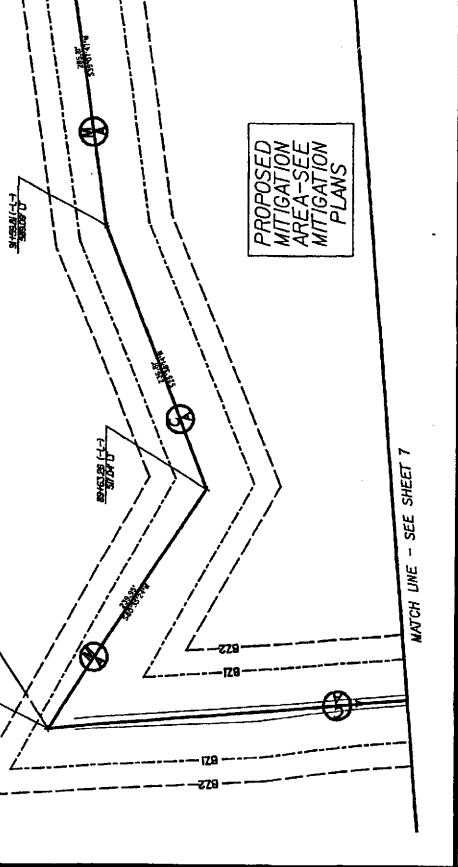
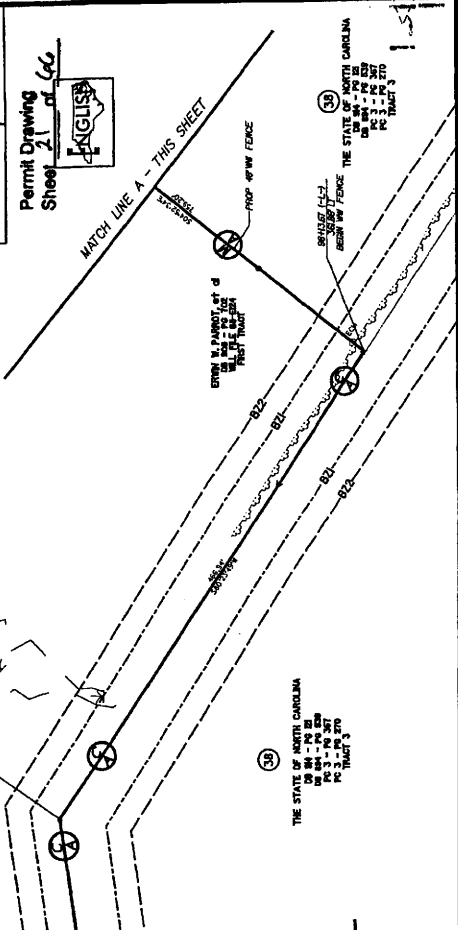
20 OF 66

2

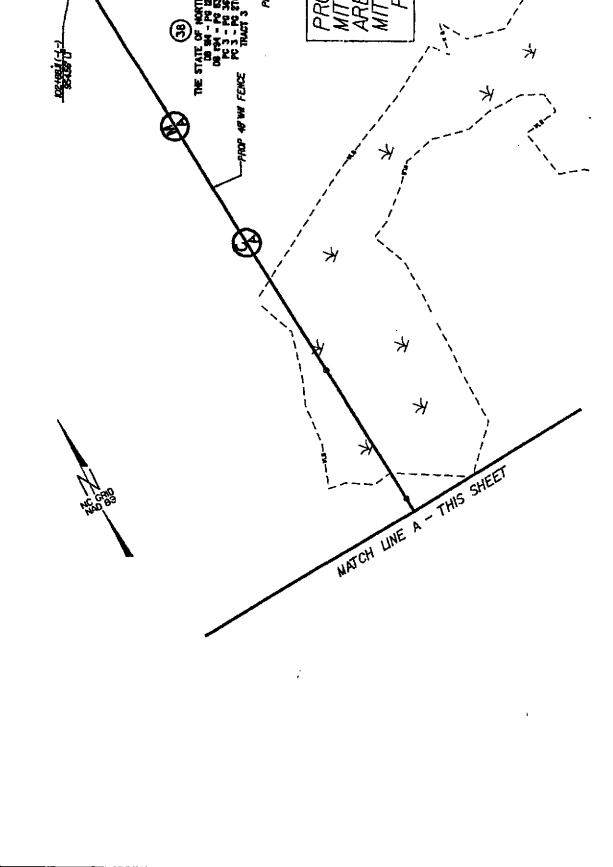
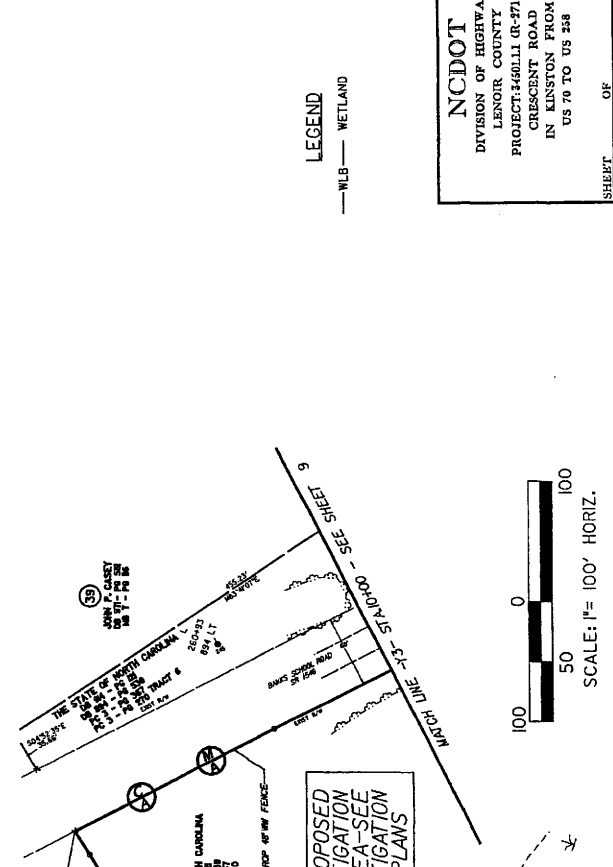
PROJECT REFERENCE NO. **R-275A**  
 SHEET NO. **7A**  
 DIVISION OF HIGHWAYS  
 LENOIR COUNTY  
 PROJECT: 460LLI (0-4719A)  
 CRESCENT ROAD  
 IN KINSTON FROM  
 US 70 TO US 258

**PRELIMINARY PLANS**  
 for use in construction

**URS**  
 CONSULTING ENGINEERS  
 1000 Peachtree Park Drive  
 Atlanta, Georgia 30309  
 PHONE: 404.524.2000 FAX: 404.524.2001  
 WWW.URS.COM

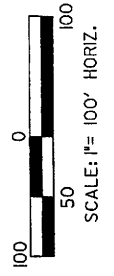


**294**



**LEGEND**  
 — WLB — WETLAND

**NCDOT**  
 DIVISION OF HIGHWAYS  
 LENOIR COUNTY  
 PROJECT: 460LLI (0-4719A)  
 CRESCENT ROAD  
 IN KINSTON FROM  
 US 70 TO US 258



SCALE: 1" = 100' HORIZ.

SHEET **OF** **9/21/07**

DATE: ——— FACER 38; ADDED THIS SHEET AND MITIGATION AREA BOUNDARY

REVISIONS

9/21/2007  
 R:\Projects\460LLI\Drawings\permits\2719a\hwy\pml\wets\Adgn

0/17/99





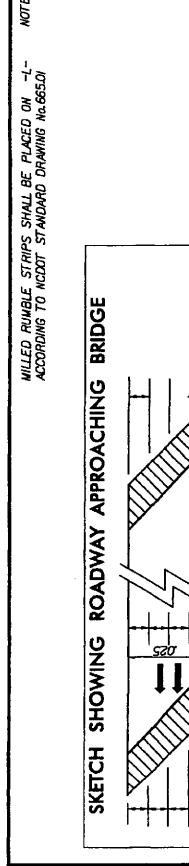
PROJECT NUMBER: 100-100-100  
 SHEET NO. 8  
 DATE: 10/15/08  
 ENGINEER: R. ZELBA  
 HYDRAULICS ENGINEER  
 CHECKED BY: [Signature]  
 PERMIT DRAWING OF 64  
 SHEET 24  
 PRELIMINARY PLANS  
 DO NOT USE FOR CONSTRUCTION

**URS**  
 US Corporation - North Carolina  
 10000 University City Center Drive  
 Charlotte, North Carolina 28213  
 PHONE: 704.366.1000  
 FAX: 704.366.1001  
 WWW.URS.COM

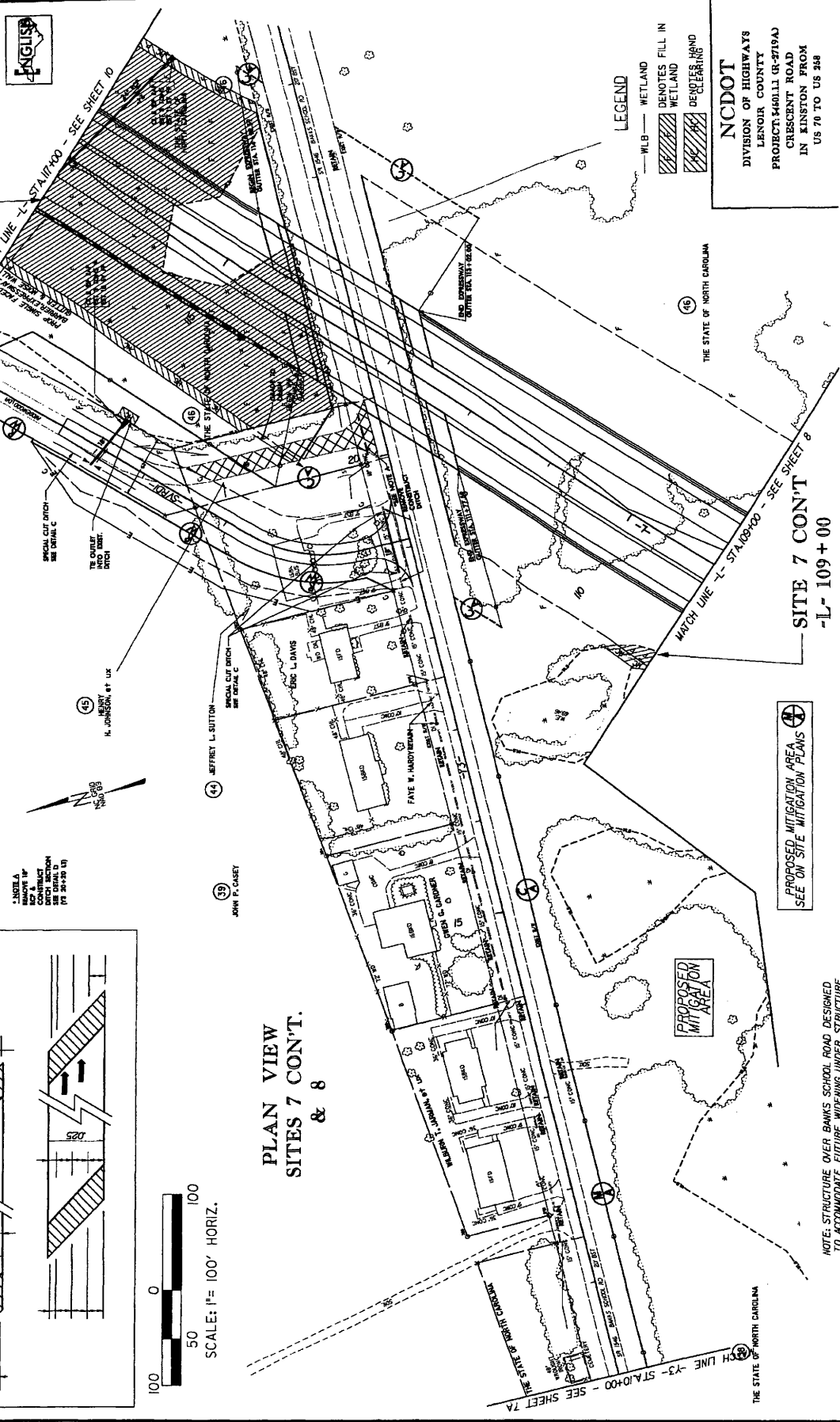
**SITE 8**  
 -L- 117 + 50

GRAPHIC SCALE  
 0 25 50 100  
 FEET  
 PLANS

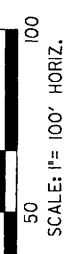
NOTE: FOR -L- PROFILE, SEE SHEET 39  
 FOR -SPWD- PROFILE, SEE SHEET 62  
 SEE SHEET 2-L FOR DRAINAGE DITCH DETAILS



MILLED RUMBLE STRIPS SHALL BE PLACED ON -L- ACCORDING TO NCDOT STANDARD DRAWING No. 655.01



NOTE: A REMOVE 1' CONTRACT CONTRACT SEE DRAWING (P. 20-20 (1))



**PLAN VIEW  
 SITES 7 CONT.  
 & 8**

**LEGEND**

- WLB - WETLAND
- WETLAND
- WETLAND
- WETLAND
- DEOTES HAND CLEARING

**NCDOT**  
 DIVISION OF HIGHWAYS  
 LENOIR COUNTY  
 PROJECT: 54011 (R-719A)  
 CRESCENT ROAD  
 IN KINSTON FROM  
 US 70 TO US 348

**PROPOSED MITIGATION AREA  
 SEE ON SITE MITIGATION PLANS**

NOTE: STRUCTURE OVER BANKS SCHOOL ROAD DESIGNED TO ACCOMMODATE FUTURE WIDENING UNDER STRUCTURE

3304 - REVERSED PLACE NUMBERS IN LOWER RIGHT CORNER OF SHEET FROM 48 TO 34  
 32206 - REVERSED RIGHT OF WAY ON FACE 45 PER RIGHT OF WAY REQUEST TO ELIMINATE REMNANT  
 12008 - ADDED MATCHLINE TO SHEET 7A AND ADDED MITIGATION AREA BOUNDARY  
 REMONSON





PROJECT REFERENCE NO. R-2719A SHEET NO. SITE 7  
 HIGHWAY DESIGN ENGINEER  
 PRELIMINARY PLANS FOR PERMIT CONSTRUCTION

Permit Drawing  
 Sheet 24 of 66

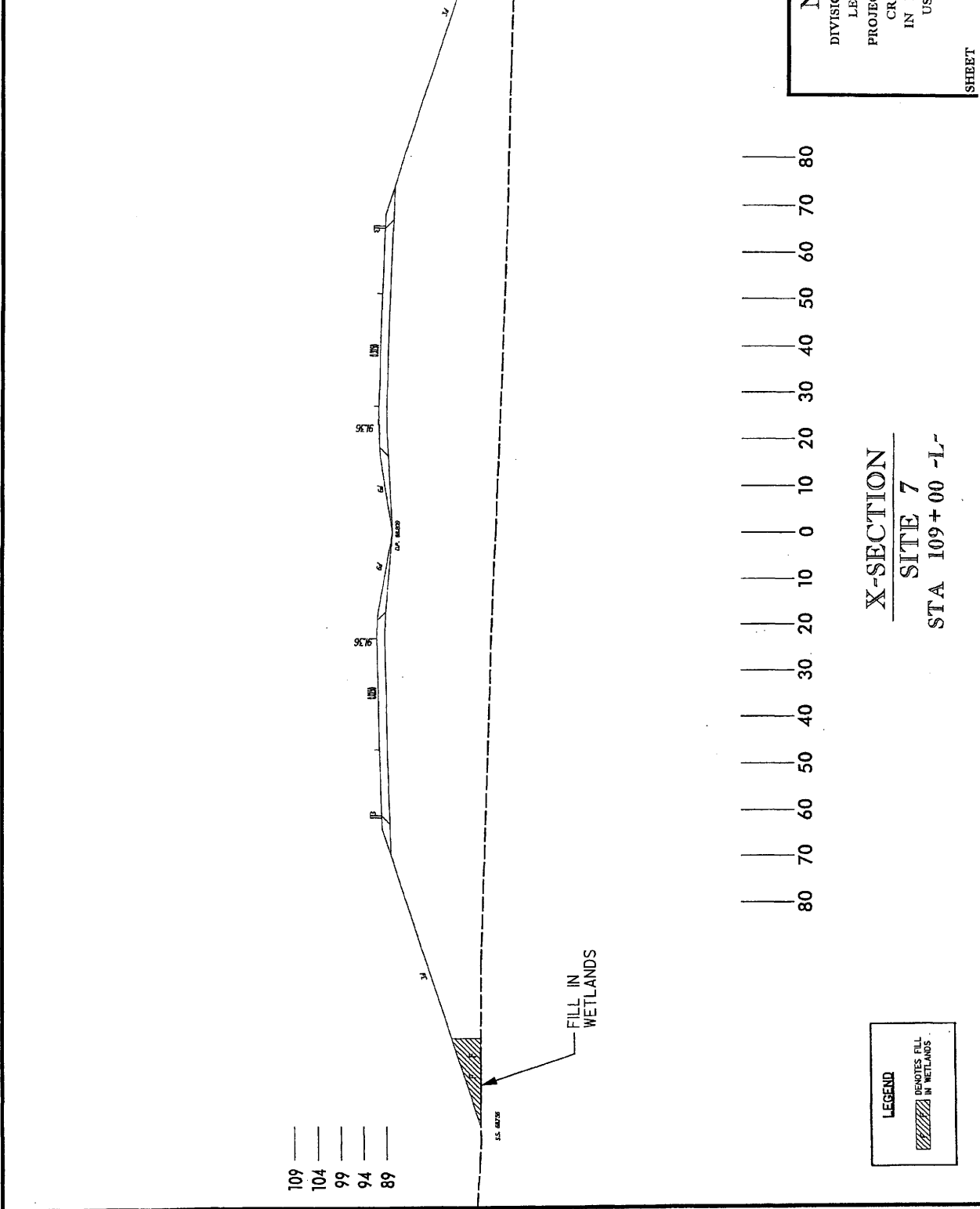
- 109
- 104
- 99
- 94
- 89

- 109
- 104
- 99
- 94
- 89



**NC DOT**  
 DIVISION OF HIGHWAYS  
 LENOIR COUNTY  
 PROJECT: 3450111 (R-2719A)  
 CRESCENT ROAD  
 IN KINSTON FROM  
 US 70 TO US 258

SHEET      OF      5/26/06



**X-SECTION**  
**SITE 7**  
**STA 109+00 -L-**

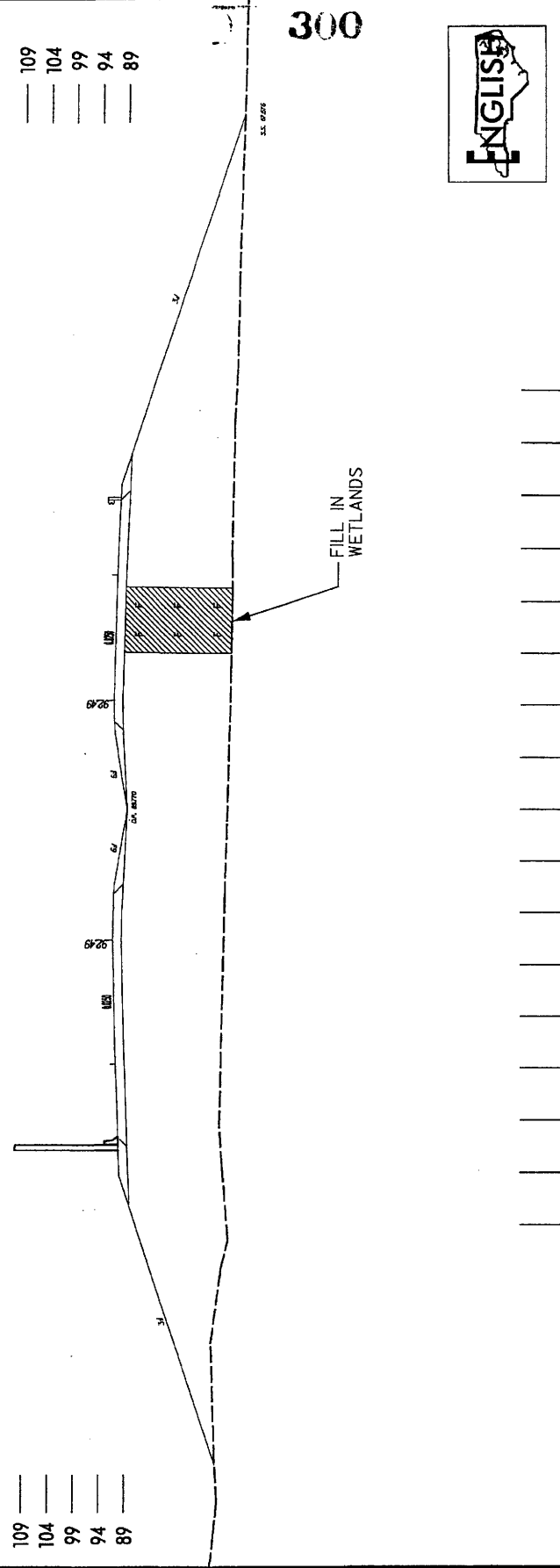
**LEGEND**  
 DENOTES FILL  
 IN WETLANDS

PROJECT REFERENCE NO. R-2719A SHEET NO. SITE 8  
 ROADWAY DESIGN ENGINEER HYDRAULICS ENGINEER  
 PREPARED BY W. J. BLANS  
 FOR USE IN PERMIT APPLICATION

Permit Drawing  
 Sheet 27 of 66

- 109
- 104
- 99
- 94
- 89

- 109
- 104
- 99
- 94
- 89



NCDOT  
 DIVISION OF HIGHWAYS  
 LENOIR COUNTY  
 PROJECT: 34501.11 (R-2719A)  
 CRESCENT ROAD  
 IN KINGSTON FROM  
 US 70 TO US 258

X-SECTION  
 SITE 8  
 STA 117+50 -L-

LEGEND  
 DENOTES FILL  
 IN WETLANDS

SHEET 5 OF 26 OF 06





PROJECT REFERENCE NO. R-2719A  
 SHEET NO. 10  
 PERMIT NO. 44  
 PRELIMINARY PLANS  
 DO NOT BE FOR CONSTRUCTION

GRAPHIC SCALE  
 50 0 50 100  
 PLANS

NOTE: FOR -L- PROFILE SEE SHEET 40  
 SEE SHEET 2-L FOR DRAINAGE DITCH DETAILS  
 MILLED RUMBLE STRIPS SHALL BE PLACED ON -L-  
 ACCORDING TO NCDOT STANDARD DRAWING No.6652.01

URS  
 URS CONSULTANTS, INC.  
 1000 BANKERS BUILDING  
 WASHINGTON, D.C. 20005

Permit Drawing  
 Sheet 30 of 44

WILLIAM S. PAGE, P.E.  
 REGISTERED PROFESSIONAL ENGINEER  
 STATE OF NORTH CAROLINA

NCDOT  
 DIVISION OF HIGHWAYS  
 LENOIR COUNTY  
 PROJECT: 440111 (R-2719A)  
 IN KINSTON FROM  
 US 70 TO US 286

LEGEND  
 -WLB- WETLAND  
 DENOTES FILL IN WETLAND  
 DEMOLITION CLEARING

PLAN VIEW  
 SITES 8 CONT.,  
 9 & 10

SCALE: 1" = 100' HORIZ.

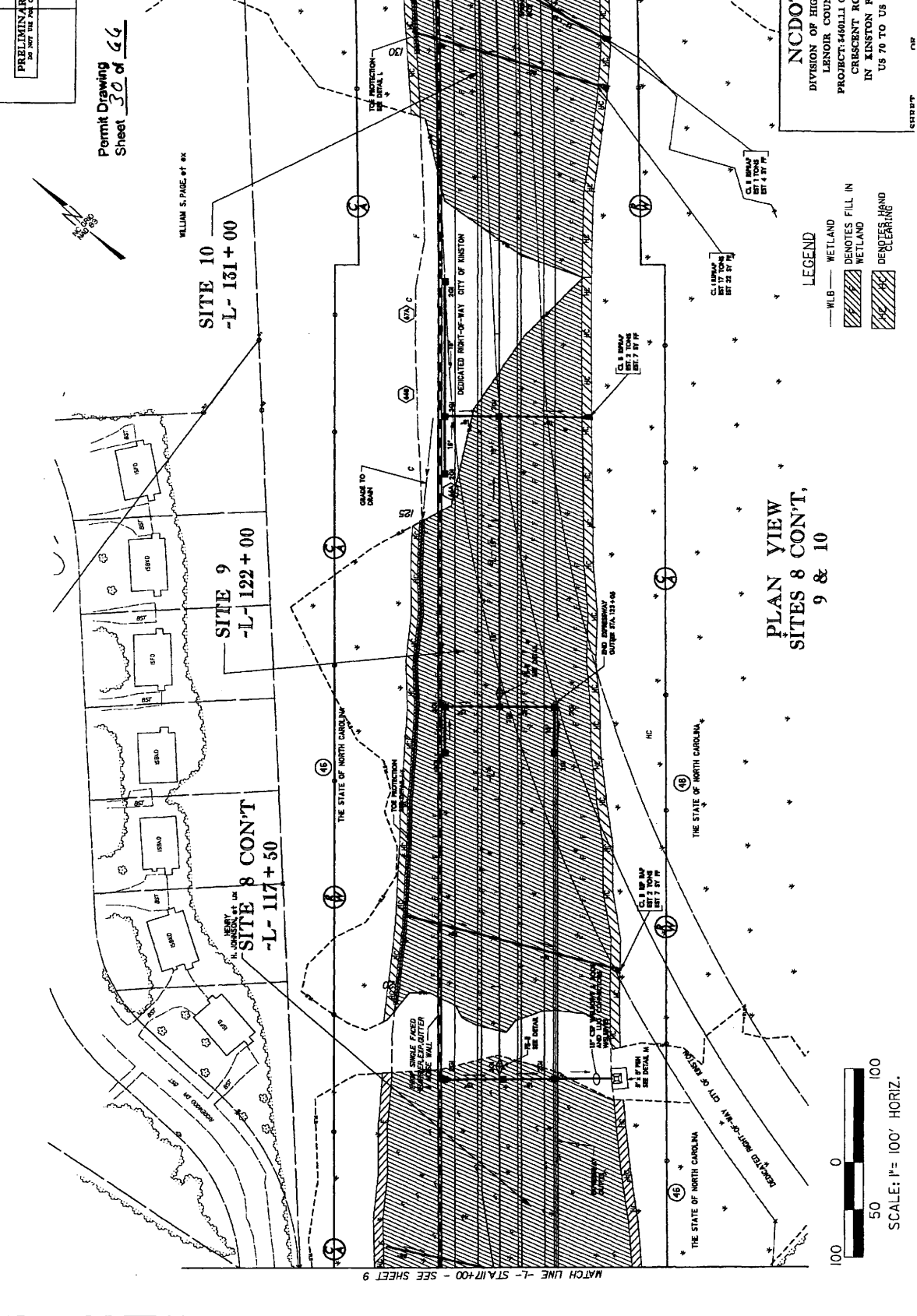
MATCH LINE -L- STA. 117+00 - SEE SHEET 9

MATCH LINE -L- STA. 131+00 - SEE SHEET 11

SITE 8 CONT  
 -L- 117+50

SITE 9  
 -L- 122+00

SITE 10  
 -L- 131+00





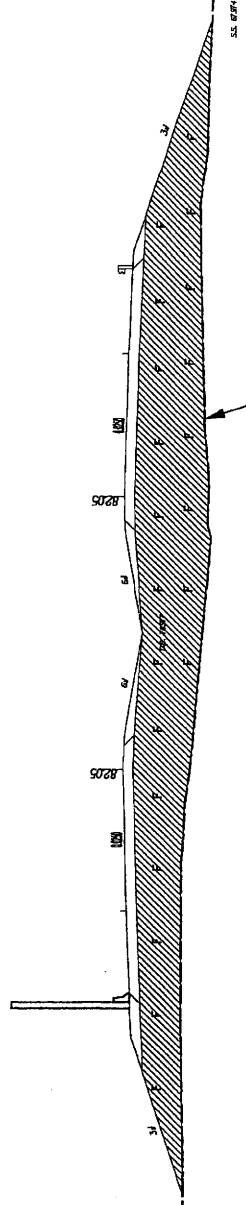
PROJECT REFERENCE NO. R-2719A  
 ROADWAY DESIGN ENGINEER  
 SHEET NO. SITE 9  
 HYDRAULIC ENGINEER

PRELIMINARY PLANS  
 FOR THE STATE OF MISSISSIPPI

Permit Drawing  
 Sheet 32 of 66

- 99 ———
- 94 ———
- 89 ———
- 84 ———
- 79 ———

- 99 ———
- 94 ———
- 89 ———
- 84 ———
- 79 ———

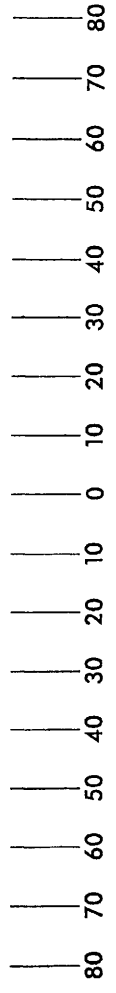


FILL IN WETLANDS



NCDOT  
 DIVISION OF HIGHWAYS  
 LENOIR COUNTY  
 PROJECT: 3450L11 (R-2719A)  
 CRESCENT ROAD  
 IN KINSTON FROM  
 US 70 TO US 258

SHEET OF 5/26/06



X-SECTION  
 SITE 9  
 STA 122+00 -L-

LEGEND  
 HATCHES FILL IN WETLANDS

305

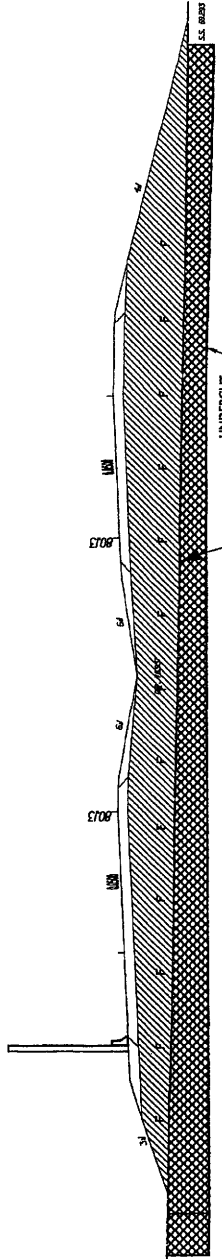
PROJECT REFERENCE NO. SHEET NO.  
 R-2719A SITE 10  
 TOWNSHIP CORNER  
 WETLANDS  
 DISTRICT

PRELIMINARY PLANS  
 DO NOT USE FOR CONSTRUCTION

Permit Drawing  
 Sheet 33 of 66

- 97
- 92
- 87
- 82
- 77

- 97 —
- 92 —
- 87 —
- 82 —
- 77 —

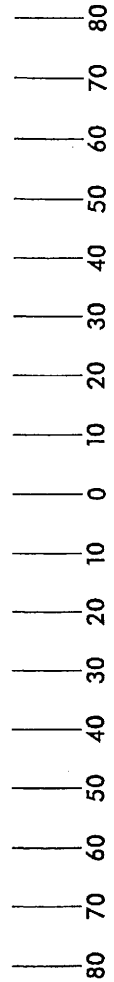


306



NCDOT  
 DIVISION OF HIGHWAYS  
 LENOIR COUNTY  
 PROJECT: 3450LL1 (R-2719A)  
 CRESCENT ROAD  
 IN KINSTON FROM  
 US 70 TO US 258

SHEET 33 OF 66 5/26/06



X-SECTION  
 SITE 10  
 STA 131+00 -L-

LEGEND  
 DENOTES FILL  
 IN WETLANDS



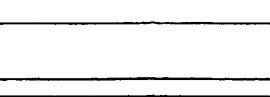
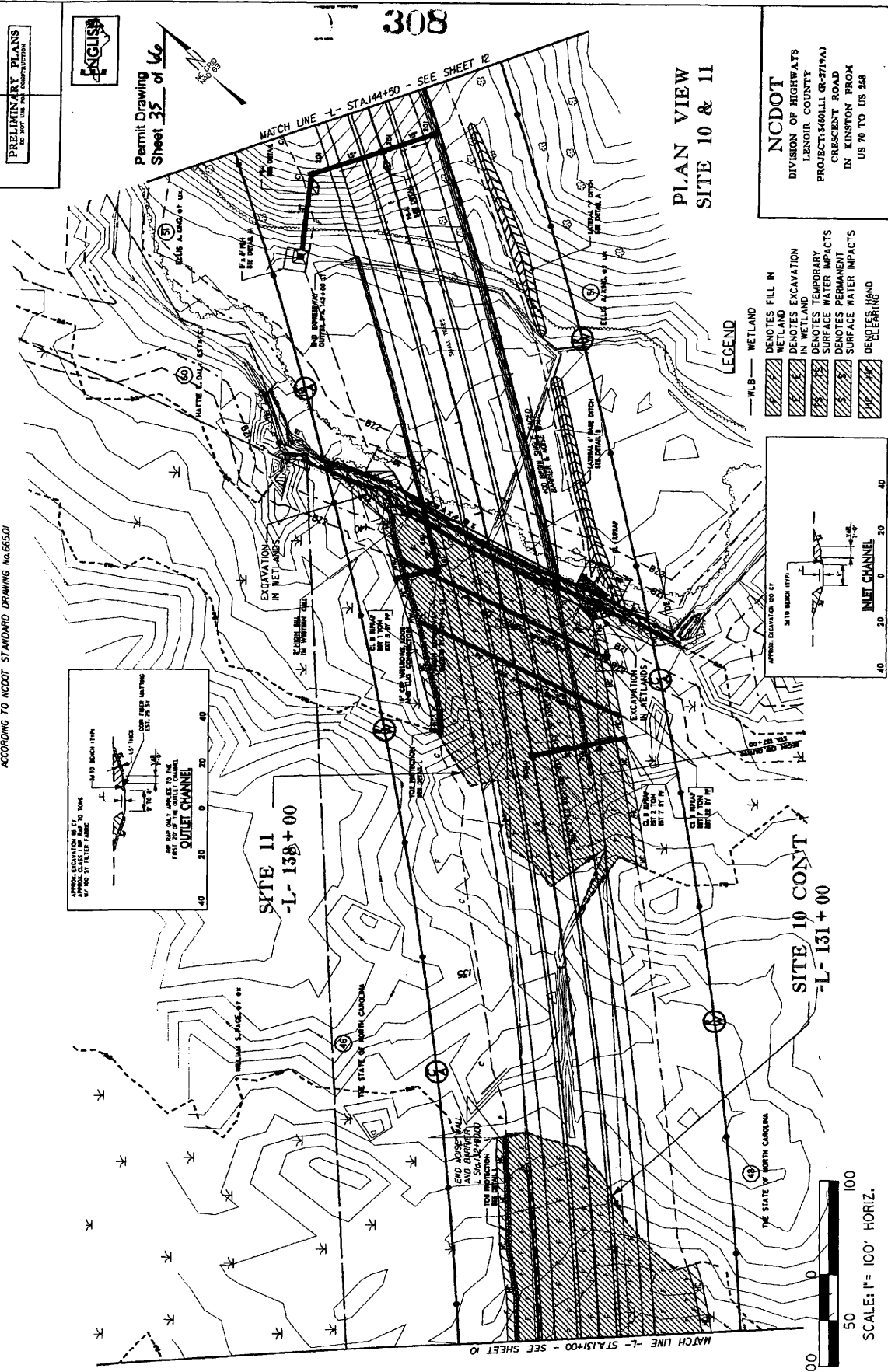


PROJECT REFERENCE NO. R-2705A  
 SHEET NO. 11  
 CONTRACT NO. 14000000000000000000  
 DRAWING TITLE: PRELIMINARY PLANS FOR THE STATE OF NORTH CAROLINA

GRAPHIC SCALE  
 0 20 40 60 80 100  
 FEET  
 PLANS

NOTE: FOR -L- PROFILE, SEE SHEETS 40 & 41  
 SEE SHEET 2-L FOR DRAINAGE DITCH DETAILS  
 SEE SHEET 2-M FOR CULVERT CHANNEL DETAILS  
 MILLED RUMBLE STRIPS SHALL BE PLACED ON -L-  
 ACCORDING TO NCDOT STANDARD DRAWING NO.665D1

URS  
 CONSULTING ENGINEERS  
 10000 UNIVERSITY CITY CENTER  
 SUITE 1000  
 CHARLOTTE, NORTH CAROLINA 28226-1000  
 PHONE: 704.366.1000  
 FAX: 704.366.1001  
 WWW.URS.COM



LEGEND

- WLB - WETLAND
- DENOTES FILL IN RETAINMENT
- DENOTES EXCAVATION IN RETAINMENT
- DENOTES TEMPORARY SURFACE WATER IMPACTS
- DENOTES PERMANENT SURFACE WATER IMPACTS
- DENOTES ROAD CLEARING

308

Permit Drawing Sheet 35 of 46

MATCH LINE -L- STA 144+50 - SEE SHEET 12

MATCH LINE -L- STA 131+00 - SEE SHEET 10

THE STATE OF NORTH CAROLINA

SCALE: 1" = 100' HORIZ.

PLAN VIEW SITE 10 & II

NCDOT  
 DIVISION OF HIGHWAYS  
 LENOIR COUNTY  
 PROJECT: 1460LLI (R-2719A)  
 CRESCENT ROAD  
 IN KINSTON FROM  
 US 70 TO US 248

OF SHEET

PROJECT REFERENCE NO. **11-219A** SHEET NO. **309**  
 DRAWN BY **SH/PA** PROJECT ENGINEER  
 CHECKED BY **SH/PA** PROJECT ENGINEER  
 PRELIMINARY PLANS  
 DO NOT USE FOR CONSTRUCTION

Permit Drawing  
 Sheet **36** of **60**

90

90

80

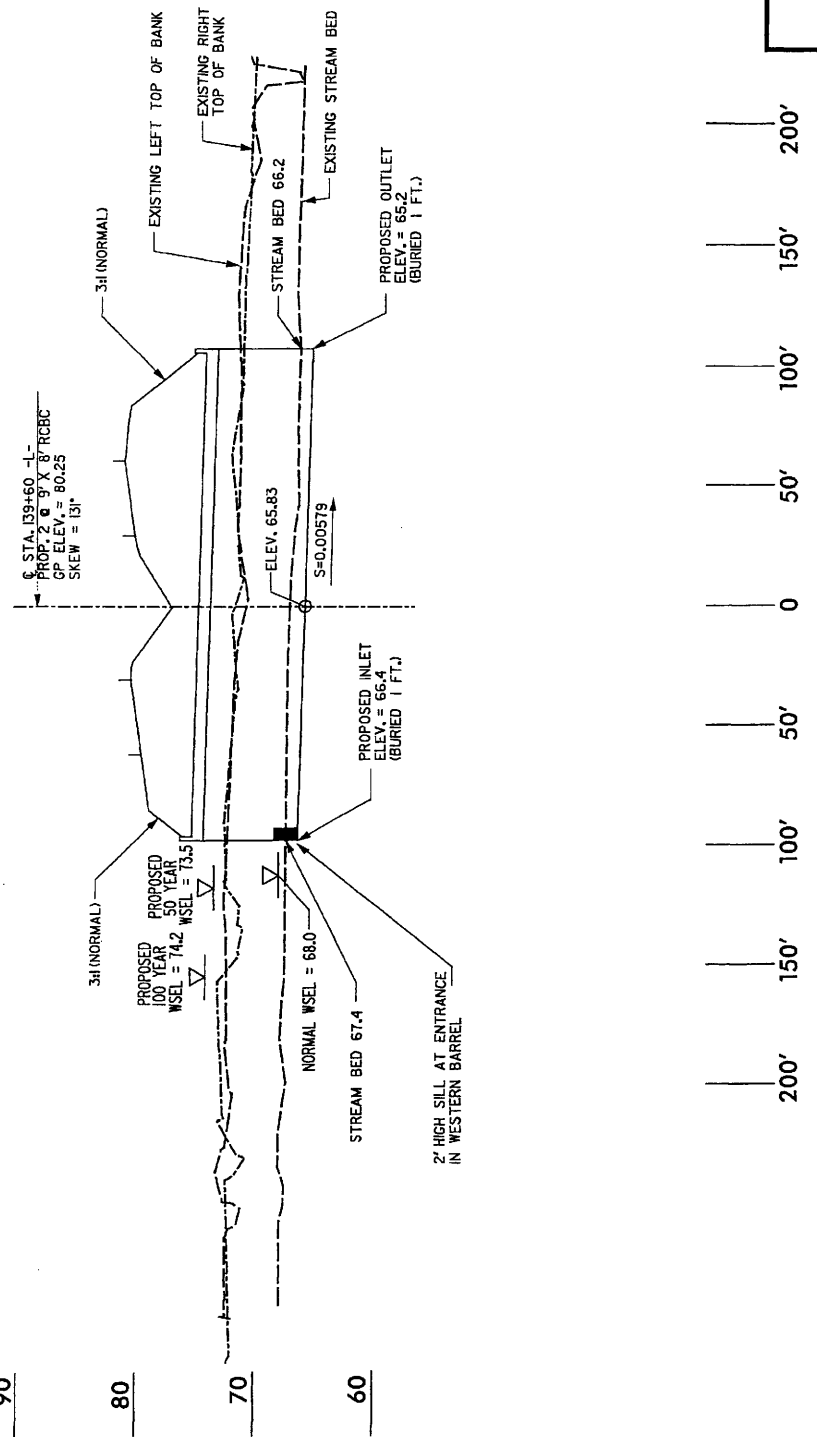
80

70

70

60

60



**NC DOT**  
 DIVISION OF HIGHWAYS  
 LENOIR COUNTY  
 PROJECT: 3460LL1 (R-2719A)  
 CRESCENT ROAD  
 IN KINSTON FROM  
 US 70 TO US 258  
 SHEET **36** OF **60**  
 5/26/06

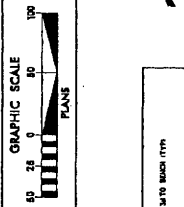
**PROFILE ALONG STRUCTURE  
 SITE II**

**SCALE:**  
 1" = 50' HORIZONTAL  
 1" = 10' VERTICAL



PROJECT REFERENCE NO. R-2775A  
 SHEET NO. 12  
 HYDRAULIC ENGINEER  
 PRELIMINARY PLANS  
 TO BE USED FOR CONSTRUCTION

**URS**  
 URS CORPORATION  
 1000 POND LANE  
 SUITE 100  
 FARMINGTON, CT 06030  
 TEL: 860.634.1000  
 FAX: 860.634.1001  
 WWW.URS-CORP.COM



NOTE: FOR "L" PROFILE, SEE SHEET 41  
 SEE SHEET 2-L FOR DRAINAGE DITCH DETAILS  
 SEE SHEET 2-M FOR COVERT CHANNEL DETAILS  
 MILLED RUMBLE STRIPS SHALL BE PLACED ON "L"  
 ACCORDING TO NCDOT STANDARD DRAWING NO.665.01

Permit Drawing  
 Sheet 31 of 66

SITE 13  
 -L- 157+00

SITE 12  
 -L- 152+50

OUTLET CHANNEL

INLET CHANNEL

EXCAVATION IN WETLANDS

EXCAVATION IN WETLANDS

EXCAVATION IN WETLANDS

EXCAVATION IN WETLANDS

EXCAVATION IN WETLANDS

EXCAVATION IN WETLANDS

EXCAVATION IN WETLANDS

EXCAVATION IN WETLANDS

EXCAVATION IN WETLANDS

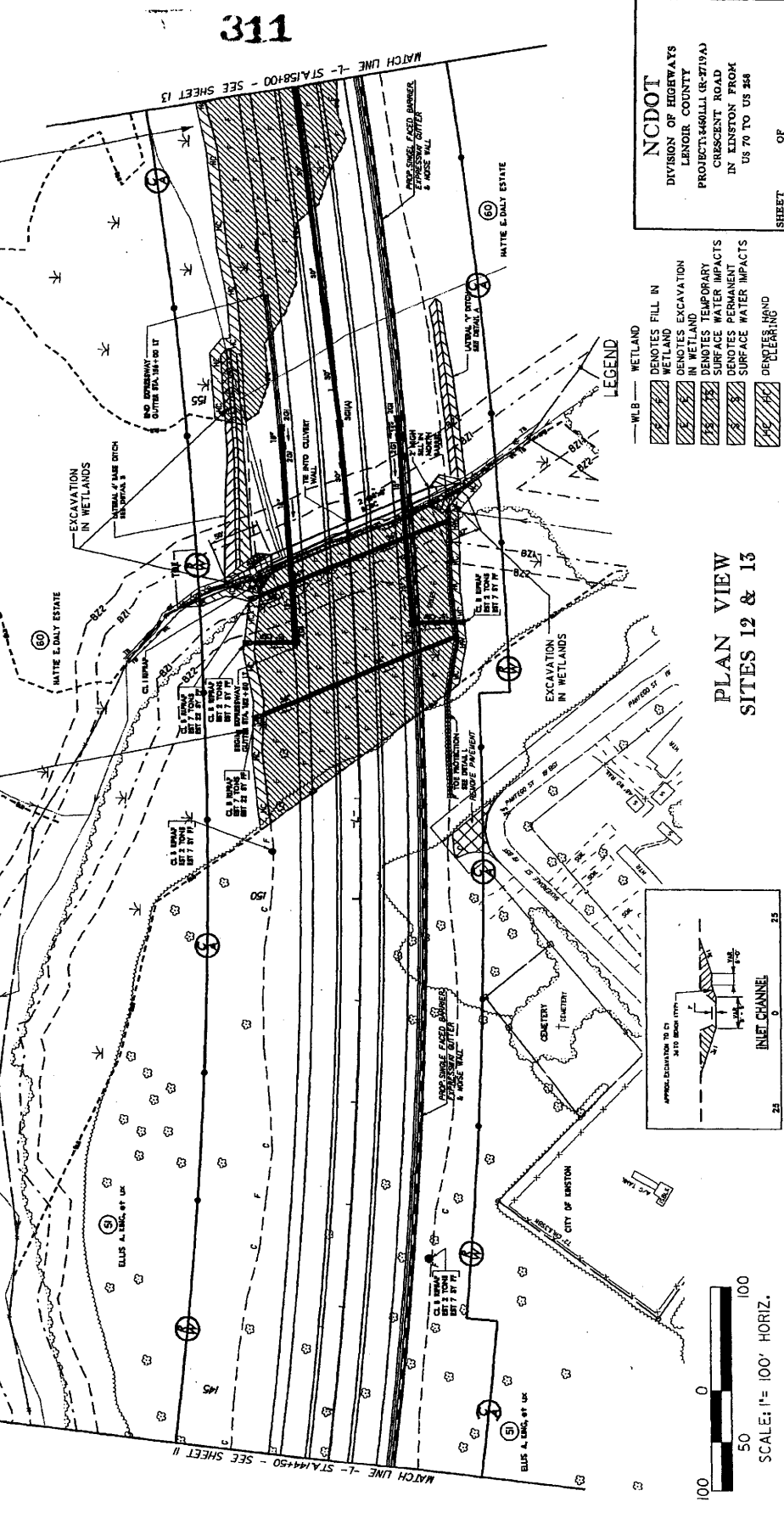
EXCAVATION IN WETLANDS

EXCAVATION IN WETLANDS

EXCAVATION IN WETLANDS

EXCAVATION IN WETLANDS

EXCAVATION IN WETLANDS

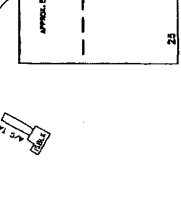
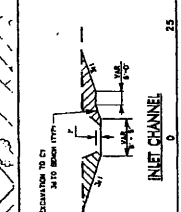


NCDOT  
 DIVISION OF HIGHWAYS  
 LENOIR COUNTY  
 PROJECT: 140011 (R-2719A)  
 CHESSCANT ROAD  
 IN EASTON, N.C.  
 US 70 TO US 246

LEGEND

- W.L.B. - WETLAND
- DENOTES FILL IN WETLAND
- DENOTES EXCAVATION IN WETLAND
- DENOTES TEMPORARY SURFACE WATER IMPACTS
- DENOTES PERMANENT SURFACE WATER IMPACTS
- DENOTES ROAD CLEARING

PLAN VIEW  
 SITES 12 & 13



SCALE: 1" = 100' HORIZ.

8/17/99

25-JN-2008 10:36  
 R:\2008\14-2719a\hd\p\m\w\l\2.dgn

PROJECT REFERENCE NO. R-2719A  
 SHEET NO. 12  
 PRELIMINARY PLANS  
 DO NOT USE FOR CONSTRUCTION

GRAPHIC SCALE  
 0 25 50 100  
 FEET  
 PLANS

NOTE: FOR -L- PROFILE, SEE SHEET 41  
 SEE SHEET 2-L FOR DRAINAGE DITCH DETAILS  
 SEE SHEET 2-M FOR CULVERT CHANNEL DETAILS  
 MILLED RUMBLE STRIPS SHALL BE PLACED ON -L-  
 ACCORDING TO NCDOT STANDARD DRAWING No.665.01

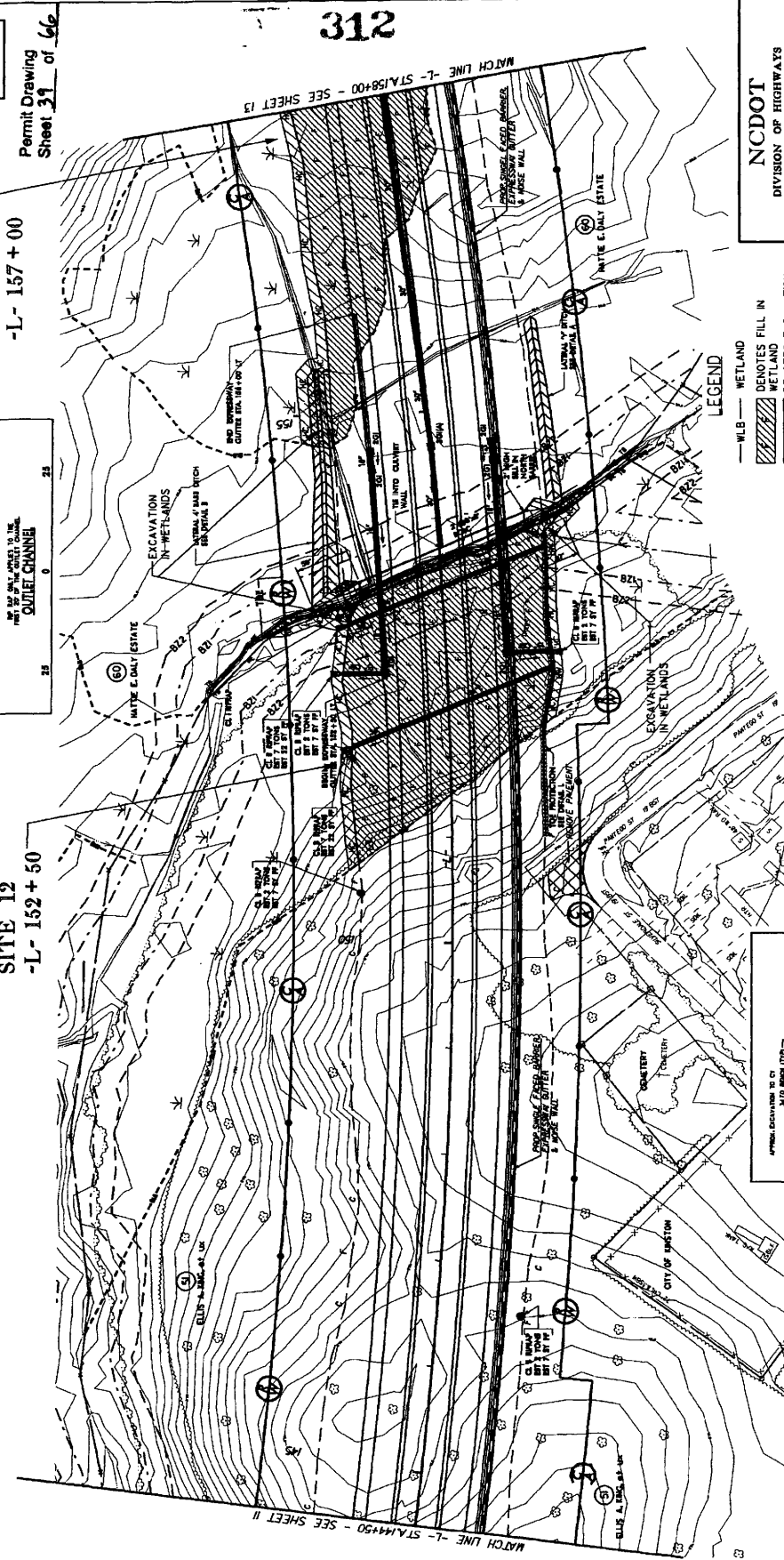
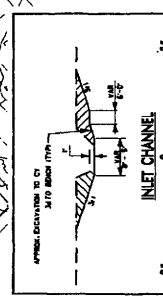
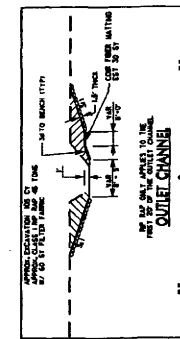
URS  
 URS CONSULTANTS, INC.  
 10000 WEST HURON AVENUE  
 SUITE 100  
 DENVER, CO 80231  
 PHONE: 303.733.1100  
 FAX: 303.733.1110



Permit Drawing  
 Sheet 31 of 66

SITE 13  
 -L- 157+00

SITE 12  
 -L- 152+50



LEGEND

- WLB - WETLAND
- Denotes FILL IN WETLAND
- Denotes EXCAVATION IN WETLAND
- Denotes TEMPORARY SURFACE WATER IMPACTS
- Denotes PERMANENT SURFACE WATER IMPACTS
- Denotes HAND DECLEANING

NCDOT  
 DIVISION OF HIGHWAYS  
 LENOIR COUNTY  
 PROJECT: 1400LLI (R-2719A)  
 CRESCENT ROAD  
 IN KINSTON PROK  
 US 70 TO US 348

SCALE: 1" = 100' HORIZ.  
 0 50 100  
 FEET

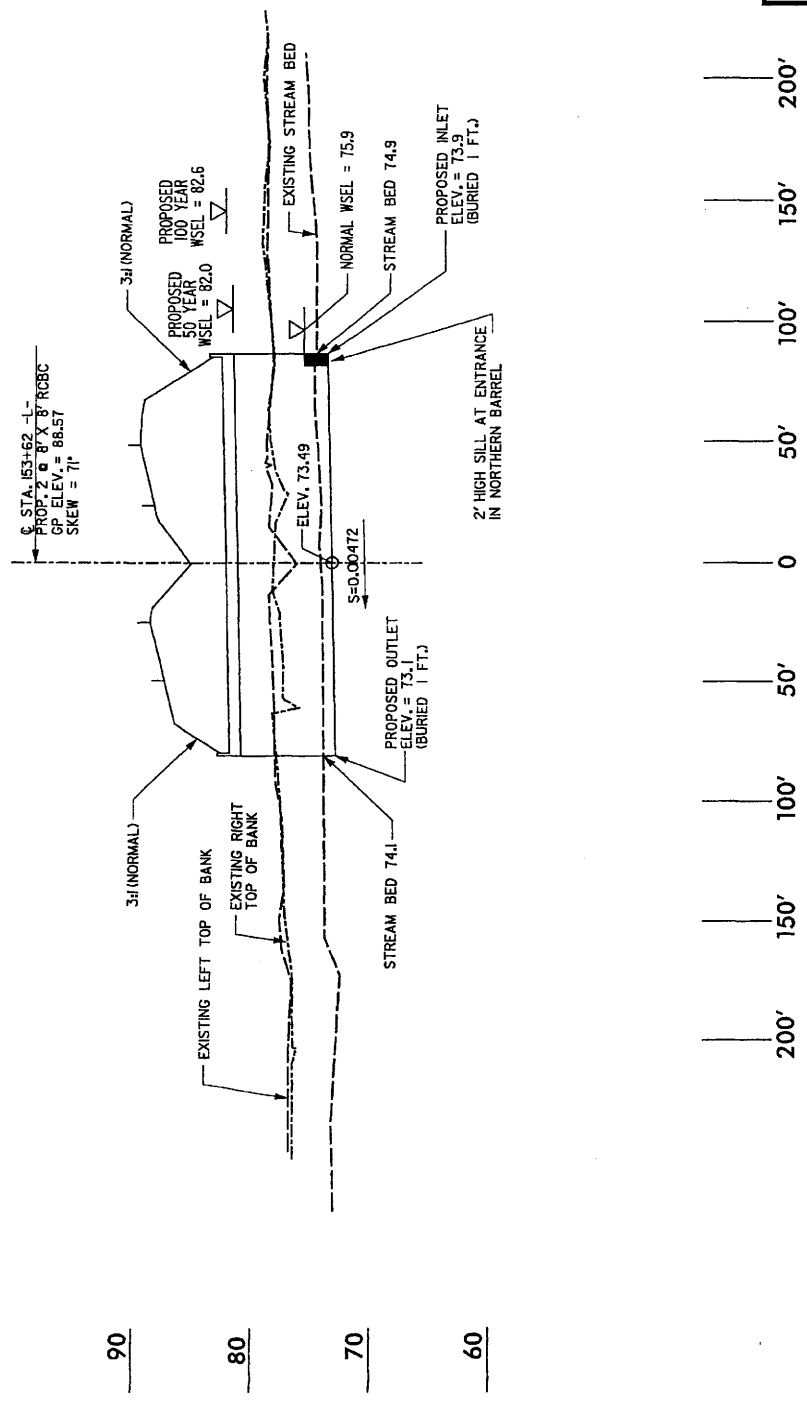
PLAN VIEW  
 SITES 12 & 13

SHEET 31 OF 66

PROJECT NUMBER NO. P-2719A	SHEET NO. S/P-1AS
DESIGNER RICHIE	DRAWN BY RICHIE
PRELIMINARY PLANS <small>DO NOT USE FOR CONSTRUCTION</small>	

Permit Drawing  
Sheet 40 of 46

313



PROFILE ALONG STRUCTURE  
SITE 12

SCALE:  
1" = 50' HORIZONTAL  
1" = 10' VERTICAL



NCDOT  
 DIVISION OF HIGHWAYS  
 LENOIR COUNTY  
 PROJECT: 3460111 (R-2719A)  
 CRESCENT ROAD  
 IN KINGSTON FROM  
 US 70 TO US 258

SHEET 40 OF 46 5/26/06

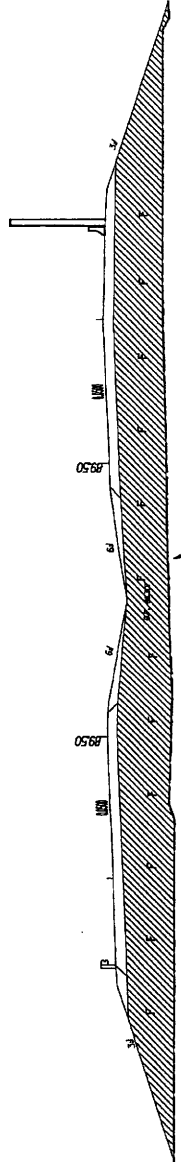
R:\ytrivalls\new\_permit\27190\_hyd\_fils-s2.dgn 10/07/06 6/2/2006

PROJECT REFERENCE NO. R-2719A SHEET NO. SITE 12  
 ROADWAY DESIGN ENGINEER  
 PRELIMINARY PLANS  
 AS SHOWN FOR THE CONSTRUCTION

Permit Drawing  
 Sheet 41 of 66

107  
 102  
 97  
 92  
 87

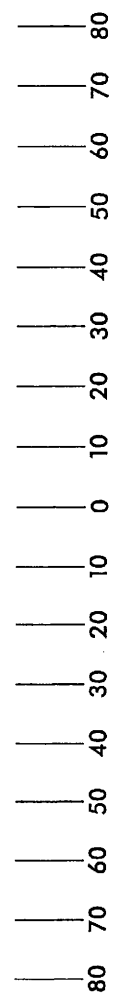
107  
 102  
 97  
 92  
 87



314



NCDOT  
 DIVISION OF HIGHWAYS  
 LENOIR COUNTY  
 PROJECT: 34601.11 (R-2719A)  
 CRESCENT ROAD  
 IN KINSTON FROM  
 US 70 TO US 258  
 SHEET OF 5 / 36 / 06



X-SECTION  
 SITE 12  
 STA 152+50 -L-

LEGEND  
 DENOTES FILL  
 IN WETLANDS







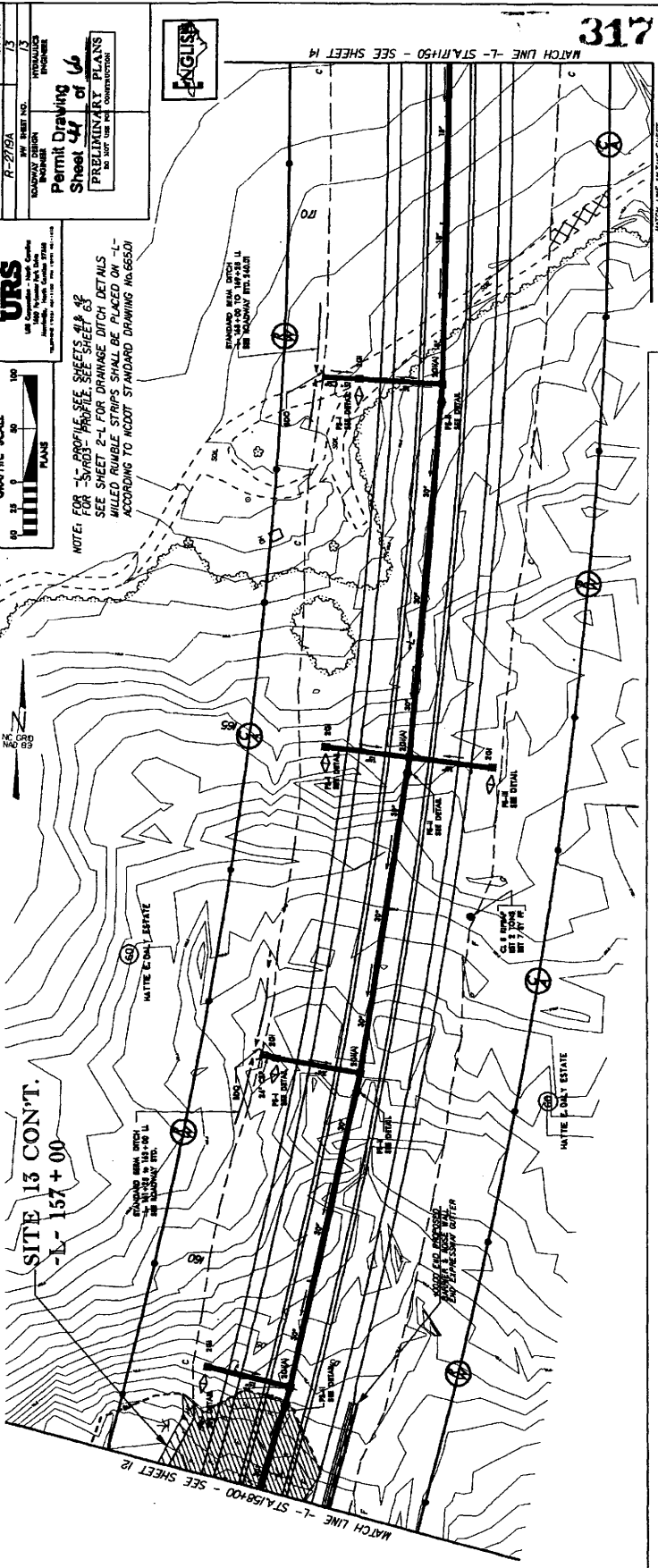
PROJECT REFERENCE NO. R-2719A  
 SHEET NO. 13  
 DATE 11/13/08  
 DRAWN BY J. H. HARRIS  
 CHECKED BY J. H. HARRIS  
 IN CHARGE J. H. HARRIS

Permit Drawing  
 Sheet 44 of 46  
 PRELIMINARY PLANS  
 DO NOT USE IN CONSTRUCTION

URS  
 URS Corporation - North Carolina  
 10000 University City Center  
 Charlotte, NC 28226-1699  
 PHONE 704.366.1000 FAX 704.366.1001

GRAPHIC SCALE  
 0 25 50 100  
 FEET  
 PLANS

NOTE: FOR -L- PROFILE, SEE SHEETS 43 & 45  
 SEE SHEET 2-4 FOR DRAINAGE DITCH DETAILS  
 WILLED RUMBLE STRIPS SHALL BE PLACED ON -L-  
 ACCORDING TO NCDOT STANDARD DRAWING No. 665.01



317

LEGEND

- HLB — WETLAND
- ▨ DENOTES FILL IN WETLAND
- ▨ DENOTES WETLAND
- ▨ DRAINAGE DITCH
- ▨ DRAINAGE

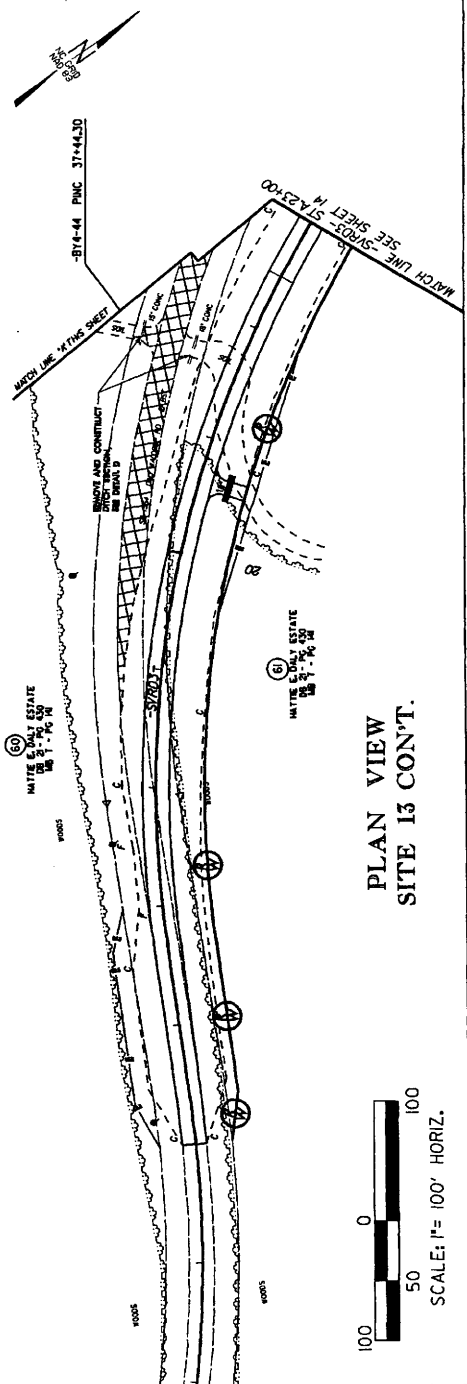
NCDOT  
 DIVISION OF HIGHWAYS  
 LENOIR COUNTY  
 PROJECT #46011 (R-3719A)  
 CRESCENT ROAD  
 IN KINSTON FROM  
 US 70 TO US 248

SHEET OF

SITE 13 CONT.  
 -L- 157+00

PLAN VIEW  
 SITE 13 CONT.

100 0 50 100  
 SCALE: 1" = 100' HORIZ.

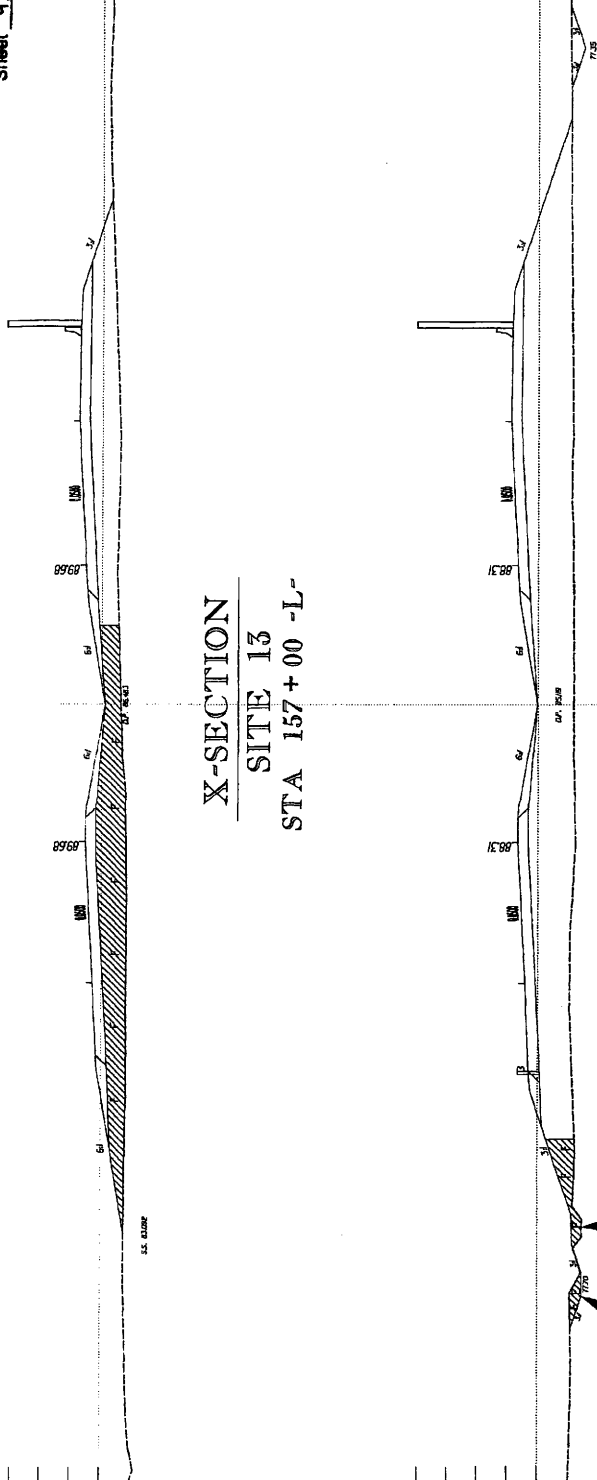


PROJECT REFERENCE NO. A-2719A SHEET NO. SITE 13  
 DESIGNER: ENGLISH PROJECT NUMBER: 318  
 PRELIMINARY PLANS  
 DO NOT USE FOR CONSTRUCTION

Permit Drawing  
 Sheet 45 of 66  
 107  
 102  
 97  
 92  
 87

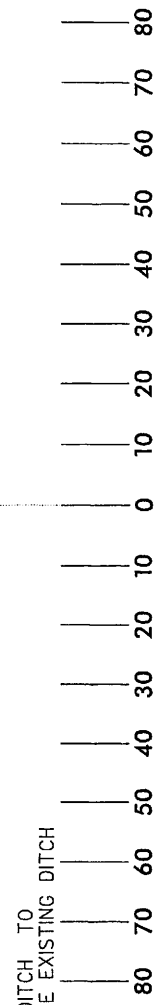
105  
 100  
 95  
 90  
 85

**X-SECTION**  
**SITE 13**  
**STA 157+00 -L-**



**NCDOT**  
 DIVISION OF HIGHWAYS  
 LENOIR COUNTY  
 PROJECT: 3450111 (R-2719A)  
 IN KINSTON FROM  
 US 70 TO US 268

**X-SECTION**  
**SITE 13**  
**STA 155+00 -L-**



**LEGEND**  
 DENOTES FILL IN WETLANDS  
 DENOTES EXCAVATION IN WETLANDS



PROJECT REFERENCE NO. R-277(04)  
 SHEET NO. 16  
 HIGHWAY DESIGN PERMITS  
 PRELIMINARY PLANS  
 SHEET 17 of 66  
 20' NOT FOR USE AND CONSTRUCTION

GRAPHIC SCALE  
 0 25 50 100  
 FEET  
 PLANS

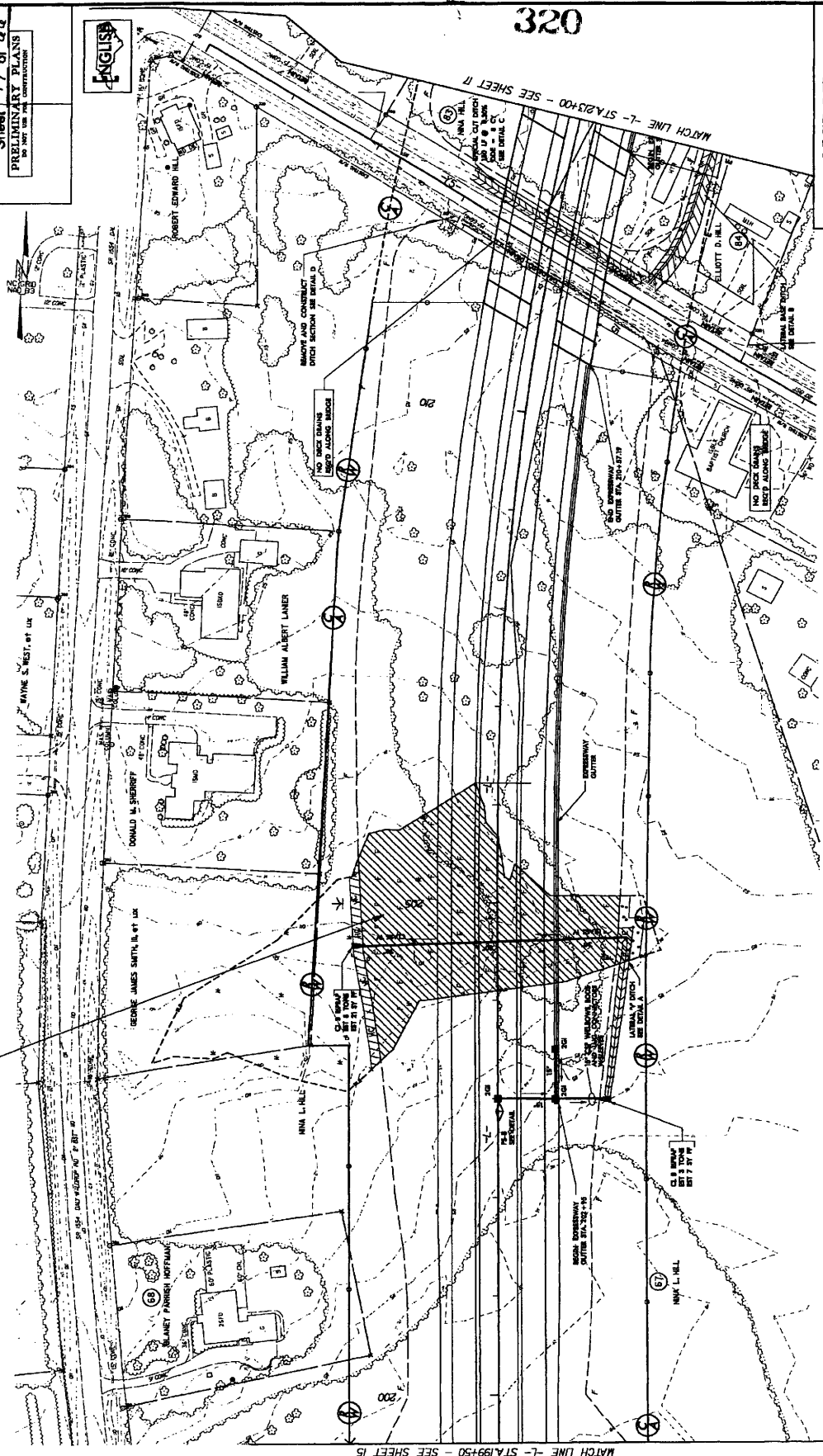
NOTE: FOR -L- PROFILE SEE SHEET 43  
 SEE SHEET P-1 FOR DRAINAGE DITCH DETAILS  
 FILLED RUMBLE STRIPS SHALL BE PLACED ON  
 ACCORDING TO NCDOT STANDARD DRAWING 16-665(0)

NOTE: FOR -L- PROFILE SEE SHEET 43  
 SEE SHEET P-1 FOR DRAINAGE DITCH DETAILS  
 FILLED RUMBLE STRIPS SHALL BE PLACED ON  
 ACCORDING TO NCDOT STANDARD DRAWING 16-665(0)

SITE 14  
 -L- 205+00

MATCH LINE -L- STA. 199+50 - SEE SHEET 15

MATCH LINE -L- STA. 233+00 - SEE SHEET 17



NCDOT  
 DIVISION OF HIGHWAYS  
 LENOIR COUNTY  
 PROJECT 346011 (R-2719A)  
 CRESSBENT ROAD  
 IN LENSTON FROM  
 US 70 TO US 308

LEGEND

- WLB - WETLAND
- Denotes Excavation in Wetland
- Denotes Hand Clearing
- Denotes Fill in Wetland
- Denotes Mechanized Clearing

PLAN VIEW  
 SITE 14

SCALE: 1" = 100' HORIZ.

100 0 50 100

SHEET OF

8/17/99

8/17/2008

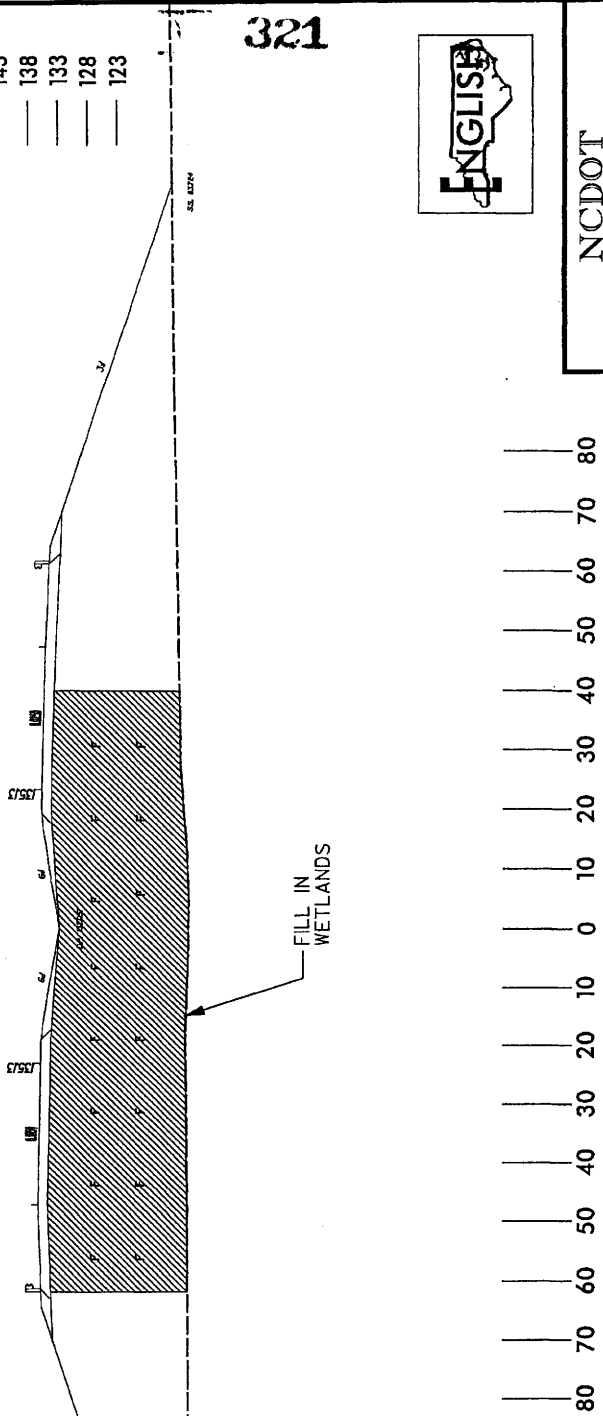
8/17/2008 10:47:39 AM C:\projects\p03-2888-05-30 (updates)\r-2719a\hd-prm-wr-lidgn

PROJECT REFERENCE NO. **R-2719A** SHEET NO. **SITE 14**  
 CONTRACTOR **WILSON ENGINEERS**  
 PRELIMINARY PLANS  
 DO NOT USE FOR CONSTRUCTION

Permit Drawing  
 Sheet 48 of 60

- 143
- 138
- 133
- 128
- 123

- 143
- 138
- 133
- 128
- 123

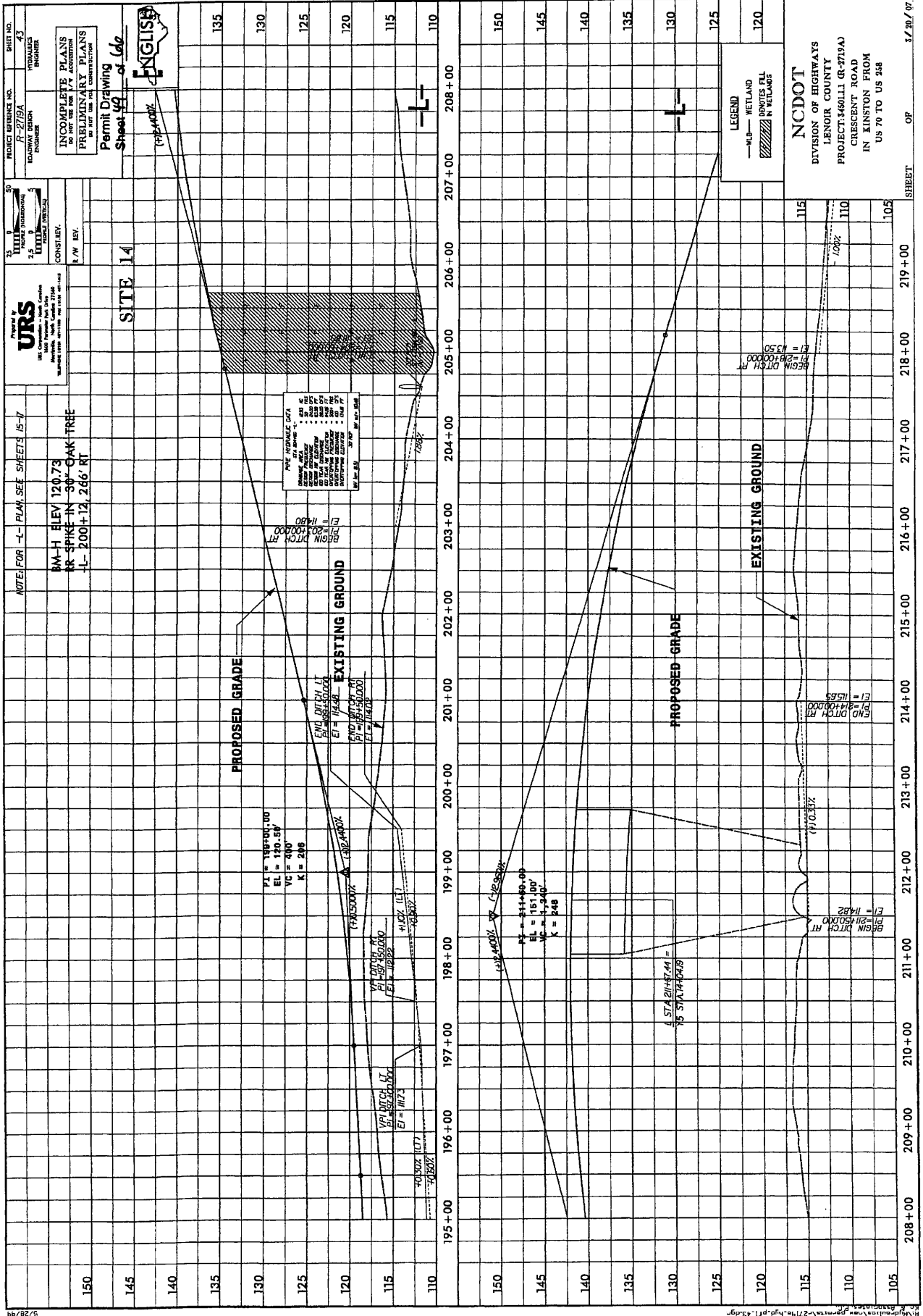


**NCDOT**  
 DIVISION OF HIGHWAYS  
 LENOIR COUNTY  
 PROJECT: 3460LL1 (R-2719A)  
 CRESCENT ROAD  
 IN KINSTON FROM  
 US 70 TO US 258

**X-SECTION**  
**SITE 14**  
**STA 205+00 -L-**

**LEGEND**  
 DENOTES FILL  
 IN WETLANDS

SHEET **57** OF **26** / 06



PROJECT REFERENCE NO. R-2719A  
 PROJECT LOCATION: RICHMOND COUNTY, GEORGIA  
 SHEET NO. 43

INCOMPLETE PLANS  
 DO NOT USE FOR PERMITS  
 PRELIMINARY PLANS  
 DO NOT USE FOR CONSTRUCTION

Permit Drawing  
 Sheet 49 of 66

ENGLISH

NOTE: FOR L-L PLAN SEE SHEETS 15-7  
 BM-H ELEV 120.73  
 RR SPIKE IN 30" OAK TREE  
 L- 200+12, 246 RT

VERTICAL CURVE DATA  
 BEGIN VPI DITCH LT  
 EL = 120.00  
 END VPI DITCH LT  
 EL = 120.00

VERTICAL CURVE DATA  
 BEGIN VPI DITCH RT  
 EL = 114.41  
 END VPI DITCH RT  
 EL = 114.41

VERTICAL CURVE DATA  
 BEGIN VPI DITCH RT  
 EL = 114.52  
 END VPI DITCH RT  
 EL = 114.52

VERTICAL CURVE DATA  
 BEGIN VPI DITCH RT  
 EL = 114.82  
 END VPI DITCH RT  
 EL = 114.82

LEGEND  
 WETLAND  
 RIPARIAN WETLANDS

NCDOT  
 DIVISION OF HIGHWAYS  
 LENOIR COUNTY  
 PROJECT: 46011 (R-2719A)  
 CRESCENT ROAD  
 IN KINSTON FROM  
 US 70 TO US 248



PROJECT REFERENCE NO. **R-2719A** SHEET NO. **19**

HYDRAULIC DESIGN NUMBER

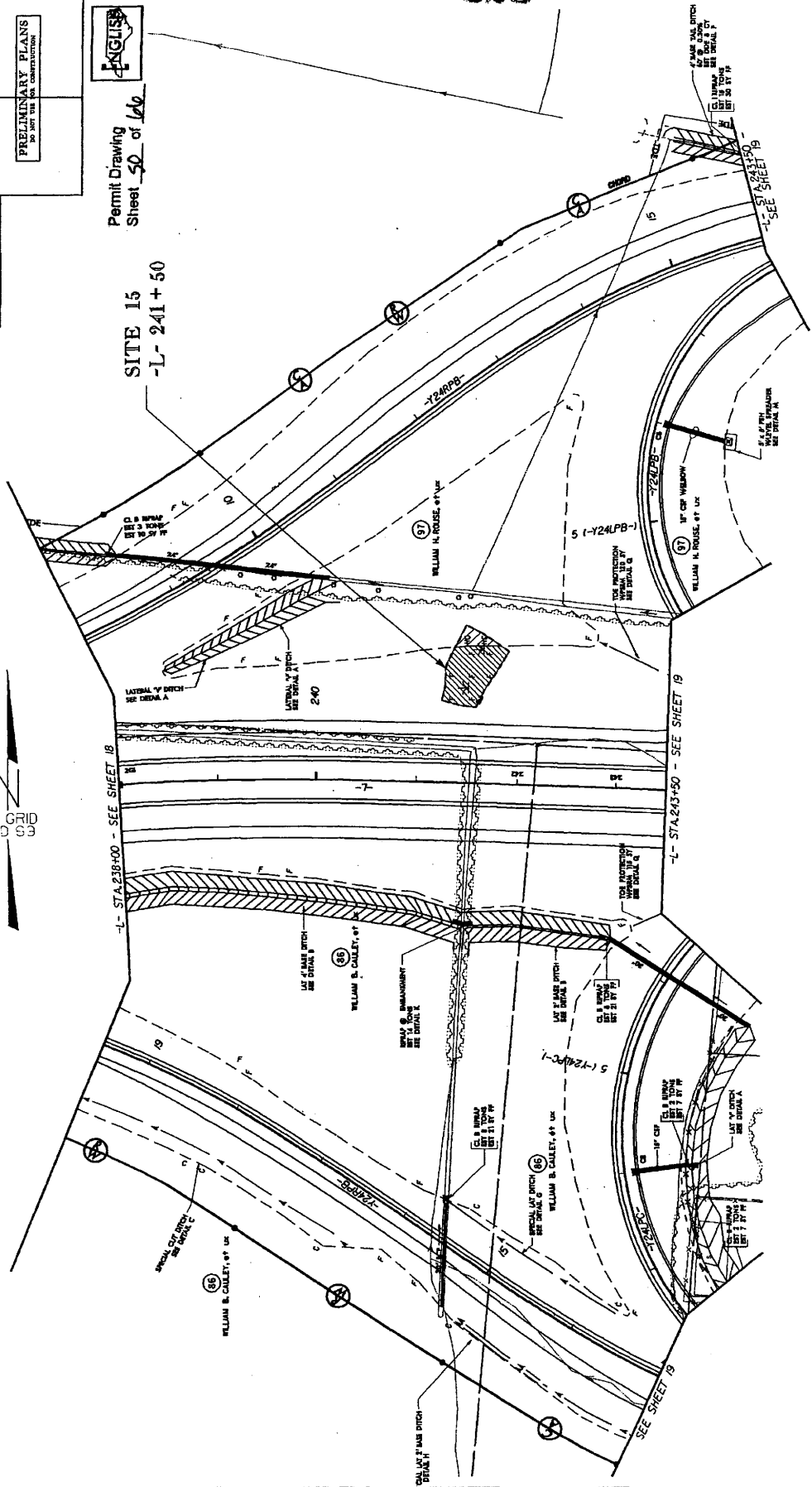
PRELIMINARY PLANS  
DO NOT USE FOR CONSTRUCTION

Presented by  
**URS**  
INCORPORATED  
1000 Pennsylvania Avenue, N.W.  
Washington, D.C. 20004  
Tel: 202-775-1100 Fax: 202-775-1111



Permit Drawing  
Sheet **50** of **166**

**SITE 15**  
**-L- 241+50**

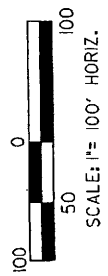


**NC DOT**  
DIVISION OF HIGHWAYS  
LENOIR COUNTY  
PROJECT: R440111 (R-2719A)  
CRESCENT ROAD  
IN KINSTON FROM  
US 70 TO US 268

**LEGEND**

- WLB — WETLAND
- Denotes FILL IN WETLAND
- Denotes HAND CLEARING

**PLAN VIEW**  
**SITE 15**



PROJECT REFERENCE NO. **R-279A**  
 SHEET NO. **19**  
 HYDRAULIC ENGINEER

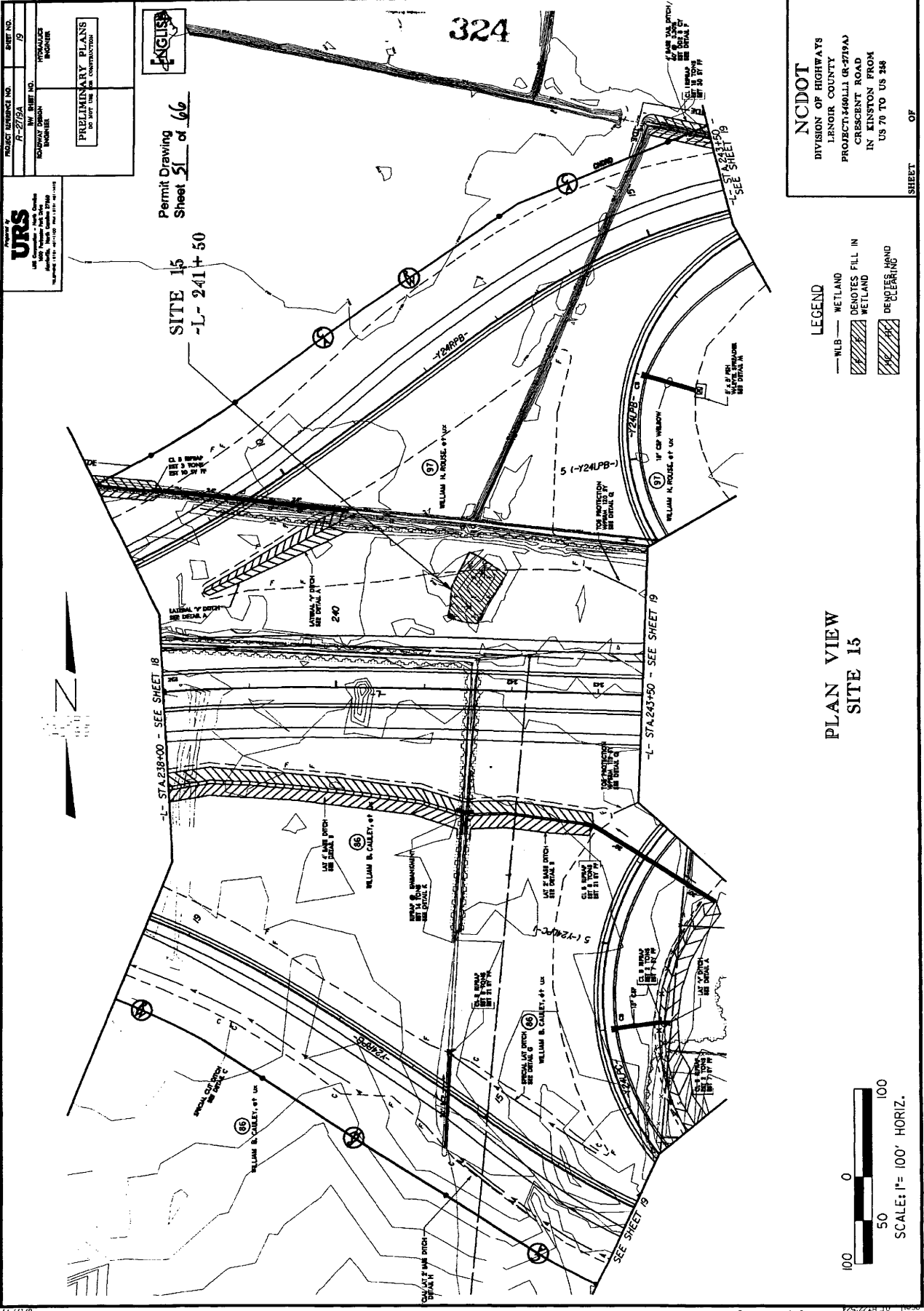
PRELIMINARY PLANS  
 DO NOT USE FOR CONSTRUCTION

**URS**  
 URS CONSULTANTS, INC.  
 1000 Peachtree Street, N.E.  
 Atlanta, Georgia 30309  
 Telephone: (404) 875-7100 Fax: (404) 875-7100

Permit Drawing  
 Sheet **51** of **66**

**SITE 15**  
 -L- 241+50

**324**



**NCDOT**  
 DIVISION OF HIGHWAYS  
 LENOIR COUNTY  
 PROJECT #46011 (R-279A)  
 CRESCENT ROAD  
 IN KINSTON FROM  
 US 70 TO US 248

**LEGEND**

- NLB — WETLAND
- ▨ DENOTES FILL IN WETLAND
- ▩ DEPRESSING

**PLAN VIEW**  
**SITE 15**

0 50 100  
 SCALE: 1" = 100' HORIZ.

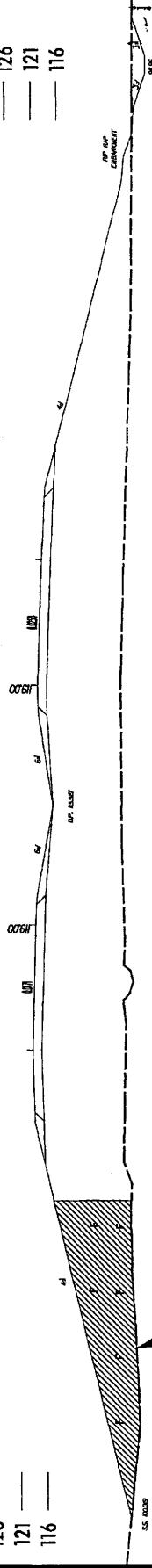
SHEET **19** OF

PROJECT NUMBER: R-2719A  
 ROADWAY DESIGN ENGINEER: [Signature]  
 SHEET NO. 15  
 TOTAL SHEETS 15  
 PRELIMINARY PLANS  
 DO NOT USE FOR CONSTRUCTION

Permit Drawing  
 Sheet 52 of 66

157  
 152  
 126  
 121  
 116

157  
 152  
 126  
 121  
 116

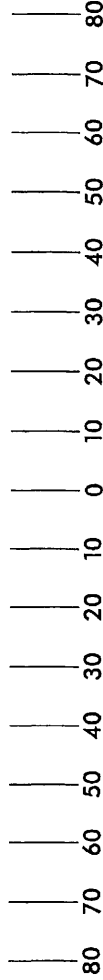


325



**NC DOT**  
 DIVISION OF HIGHWAYS  
 LENOIR COUNTY  
 PROJECT: 346011 (R-2719A)  
 CRESCENT ROAD  
 IN KINSTON FROM  
 US 70 TO US 258

SHEET 52 OF 66  
 DATE 5/26/06



**X-SECTION**  
 SITE 15  
 STA 241+50 -L-

**LEGEND**  
 DENOTES FILL  
 IN WETLANDS



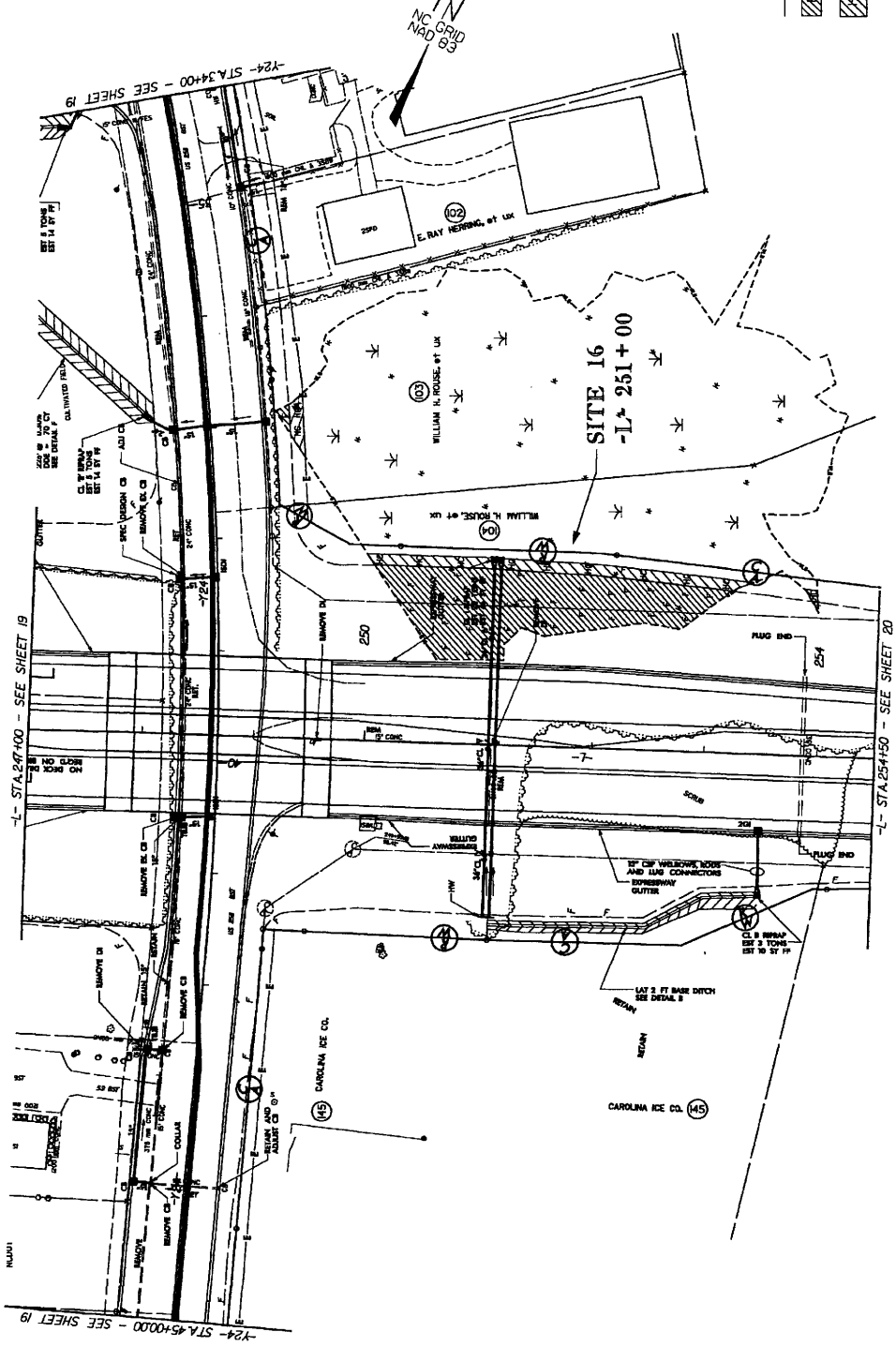
PROJECT REFERENCE NO. 7-219A  
 SHEET NO. 15A  
 ROADWAY DESIGN ENGINEER  
 HYDRAULICS ENGINEER

**URS**  
 URS CORPORATION  
 1000 EAST 17TH AVENUE  
 DENVER, COLORADO 80202  
 PHONE: 303.733.1000  
 FAX: 303.733.1001

PRELIMINARY PLANS  
 FOR THE US 76 INTERCHANGE



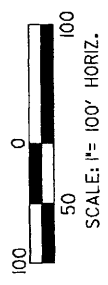
Permit Drawing  
 Sheet 54 of 66



**LEGEND**  
 -WLB- WETLAND  
 DENOTES FILL IN WETLAND  
 WETLAND  
 CLEARING BAND

**NC DOT**  
 DIVISION OF HIGHWAYS  
 LENOIR COUNTY  
 PROJECT: 46011 (K-2119A)  
 IN KINSTON FROM  
 US 76 TO US 248

PLAN VIEW  
 SITE 16



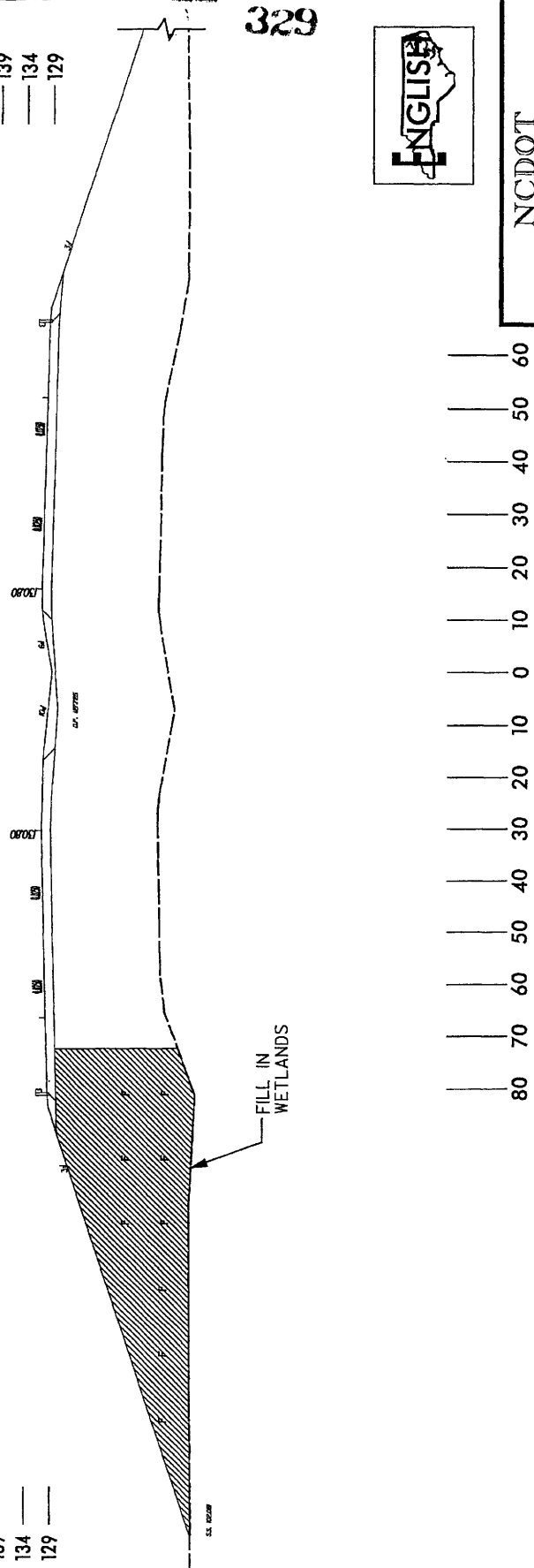


PROJECT NUMBER NO.	8-2781
ROADWAY DESIGN ENGINEER	STEFAN HORNALLS
PRELIMINARY PLANS DO NOT BE CONSIDERED	

Permit Drawing  
Sheet 56 of 66

- 149
- 144
- 139
- 134
- 129

- 149
- 144
- 139
- 134
- 129



**NC DOT**  
 DIVISION OF HIGHWAYS  
 LENOIR COUNTY  
 PROJECT: 3460111 (R-2719A)  
 CRESCENT ROAD  
 IN KINSTON FROM  
 US 70 TO US 258

**X-SECTION**  
**SITE 16**  
**STA 251+00 -L-**

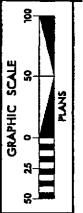
**LEGEND**  
 HATCHED AREA DENOTES FILL IN WETLANDS

SHEET OF 5/26/06





PROJECT REFERENCE NO. R-2715A	SHEET NO. 2
DATE 10/1/98	BY HYDRAULICS
DESIGNED BY HYDRAULICS	CHECKED BY HYDRAULICS
PRELIMINARY PLANS DO NOT USE FOR CONSTRUCTION	

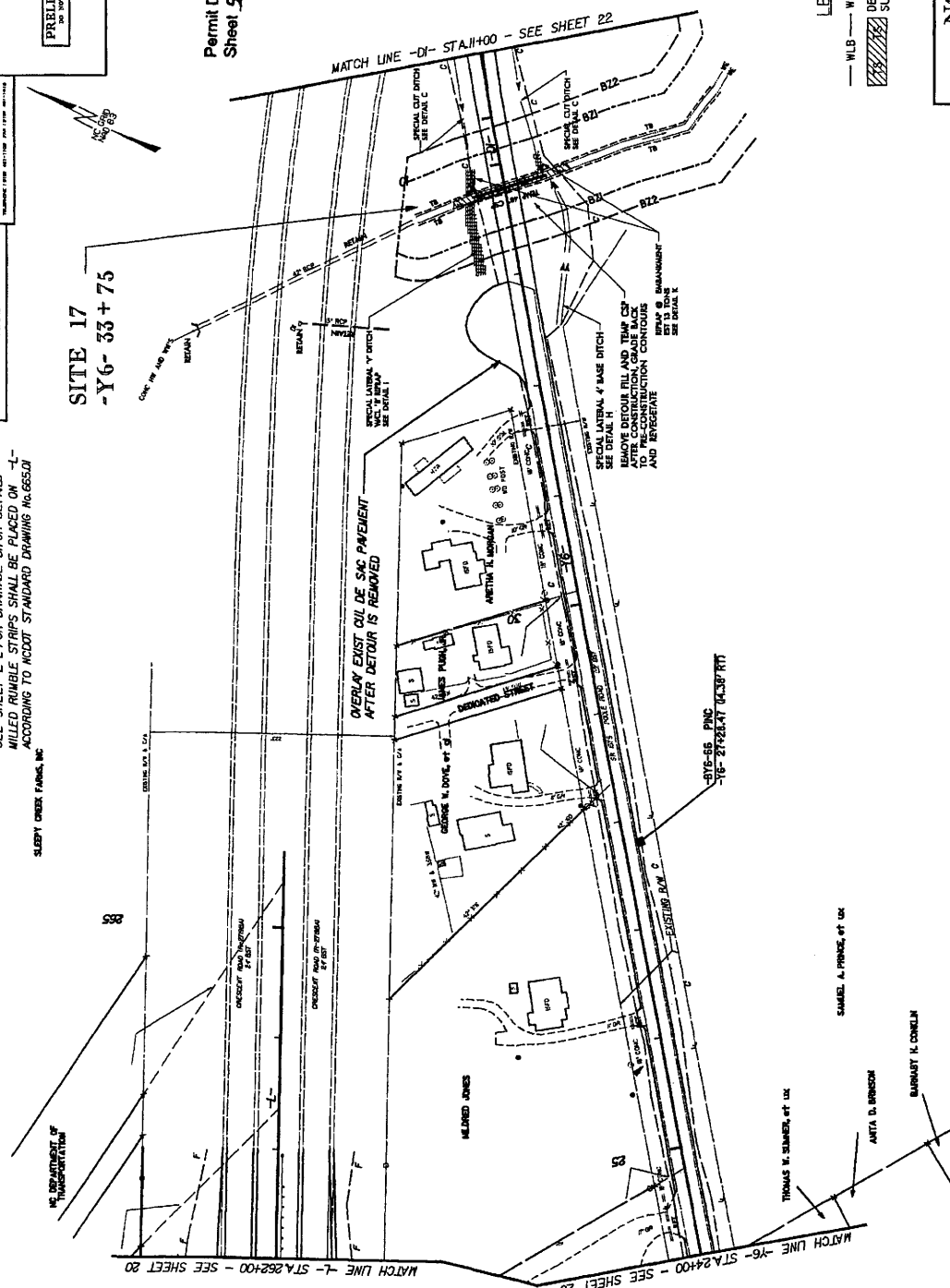


NOTE: FOR "L" PROFILE-SEE SHEET 45  
FOR "B" PROFILE-SEE SHEET 70  
FOR "D" & "E" PROFILE-SEE SHEET 71  
SEE SHEET 2-L FOR DRAINAGE DITCH DETAILS  
MILLED ROUBLE STRIPS SHALL BE PLACED ON "L"  
ACCORDING TO NCDOT STANDARD DRAWING 96.665.01  
SLEEPY CREEK PARK, NC



Permit Drawing 66  
Sheet 58 of

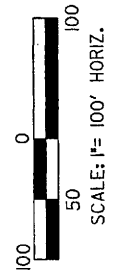
331



LEGEND  
 - WLB - WETLAND  
 [Hatched Box] DENOTES TEMPORARY SURFACE WATER IMPACTS

NCDOT  
 DIVISION OF HIGHWAYS  
 LENOIR COUNTY  
 PROJECT: 346011 (R-3719A)  
 CRESCENT ROAD  
 IN KINSTON FROM  
 US 70 TO US 258

PLAN VIEW  
 SITE 17



SHEET 58 OF 97 30/07

PROJECT REFERENCE NO.	21
DATE	11/19/04
BY	HYDRAULICS
CHECKED BY	ENGINEER
DESIGNED BY	ENGINEER

PRELIMINARY PLANS  
FOR PERMITTING PURPOSES

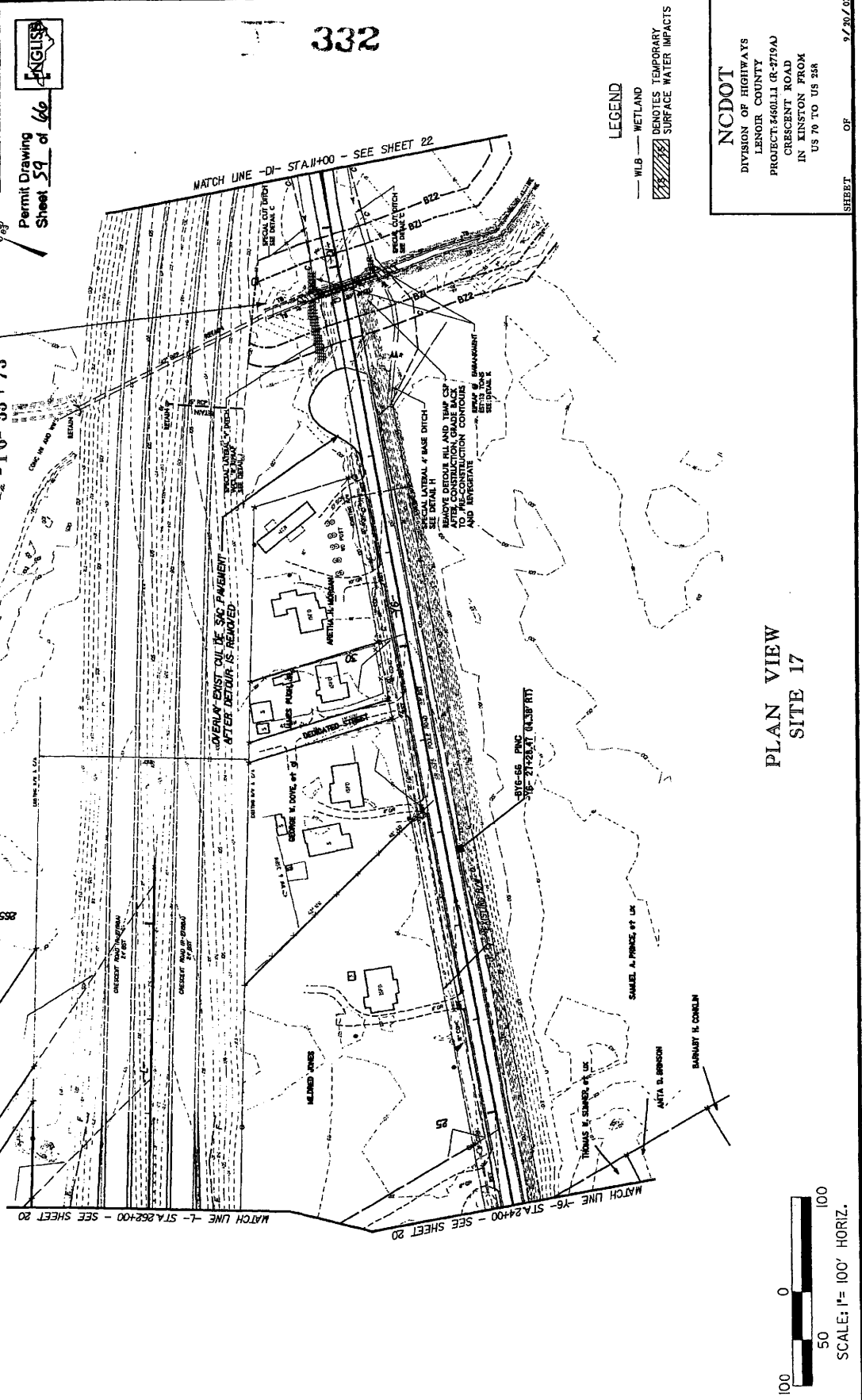
Permit Drawing  
Sheet 59 of 66

GRAPHIC SCALE  
1" = 100'  
0 50 100  
PLANS

NOTE: FOR 1-L PROFILE SEE SHEET 45  
FOR 1-G PROFILE SEE SHEET 70  
FOR 1-D & 1-E PROFILE SEE SHEET 71  
SEE SHEET 2-L FOR DRAINAGE DITCH DETAILS  
MILLED RUMBLE STRIPS SHALL BE PLACED ON  
ACCORDING TO NCDOT STANDARD DRAWING No.655D  
SLEBY CREEK FARM, NC

332

332



LEGEND  
- W/LB - WETLAND  
DENOTES TEMPORARY SURFACE WATER IMPACTS

NCDOT  
DIVISION OF HIGHWAYS  
LENOIR COUNTY  
PROJECT: 460111 CR-3719A  
CRESCENT ROAD  
IN KINSTON, FROM  
US 70 TO US 25A

PLAN VIEW  
SITE 17

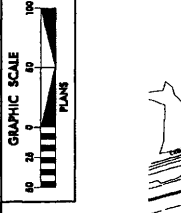
SCALE: 1" = 100' HORIZ.

0 50 100

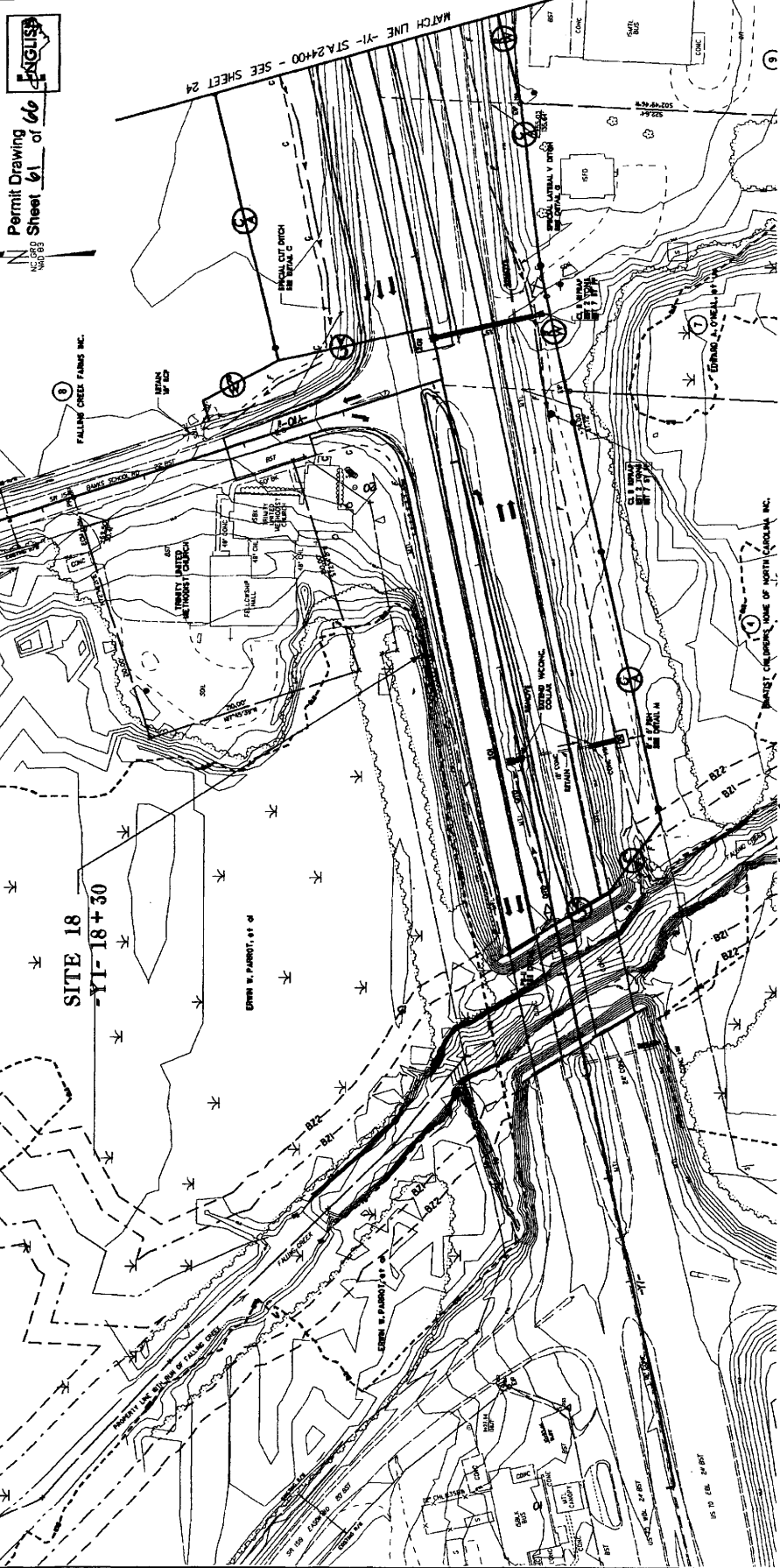


PROJECT REFERENCE NO.	R-27263
SHEET NO.	23
BY	HYDRAULIC ENGINEER
DATE	11/11/11
REVISIONS	
NO.	DESCRIPTION
1	PRELIMINARY PLANS
2	DO NOT USE FOR CONSTRUCTION

**URS**  
 CONSULTING ENGINEERS  
 1000 WEST 10TH AVENUE  
 DENVER, CO 80202  
 TEL: 303.733.1000  
 FAX: 303.733.1001  
 WWW.URS.COM



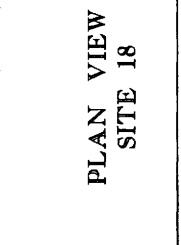
NOTE: FOR -YI- PROFILE SEE SHEET 60  
 FOR -YI-18+30 SEE SHEET 24  
 SEE SHEET 2-1 FOR DRAINAGE DITCH DETAILS  
 FOR INTERSECTION DETAIL SEE SHEET 2-1  
 MILLED RUMBLE STRIPS SHALL BE PLACED ON -YI-  
 ACCORDING TO NCDOT STANDARD DRAWING NO.65501  
 BEGIN MILLED RUMBLE STRIPS AT BEGINNING OF C/A.



**NCDOT**  
 DIVISION OF HIGHWAYS  
 LENOIR COUNTY  
 PROJECT: 146011 (R-2719A)  
 CRESCENT ROAD  
 IN KINSTON, NC  
 US 70 TO US 568

**LEGEND**  
 -WLB- WETLAND  
 WETLAND BUFFER  
 DEBRIS HAND CLEARING

**PLAN VIEW**  
**SITE 18**

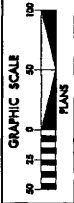


SHEET

OF

PROJECT NUMBER NO.	R-2751
SHEET NO.	25
DESIGNED BY	HYDRAULIC ENGINEER
CHECKED BY	HYDRAULIC ENGINEER
DATE	12/15/08

**URS**  
 URS Corporation, a wholly owned subsidiary of Ecolab, Inc.  
 10000 North Central Expressway  
 Suite 1000  
 Dallas, Texas 75243-9699  
 Phone: 972.780.8000  
 Fax: 972.780.8001  
 www.urscorp.com



NOTE: FOR -Y1- PROFILE SEE SHEETS 46 & 47  
 SEE SHEET 2-4 FOR DRAINAGE DITCH DETAILS  
 SEE SHEET 2-4 FOR CULVERT CHANNEL DETAILS  
 MILLED RUMBLE STRIPS SHALL BE PLACED ON -Y1-  
 ACCORDING TO NCDOT STANDARD DRAWING N6.665.01  
 FOR CORE DETAIL SEE NCDOT STANDARD DRAWING 825.03

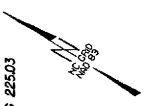
**-Y1- CURVE DATA**

PI Stn	54+08.87	PI Stn	64+70.42
PC Stn	48+10.32	PC Stn	61+14.25 (RT)
PT Stn	48+10.32	PT Stn	61+14.25 (RT)
LS	427.00	L	129.5965
LT	284.75	L	129.5965
ST	142.38	R	1.020007
		e	5.5%

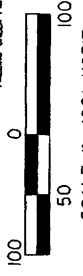
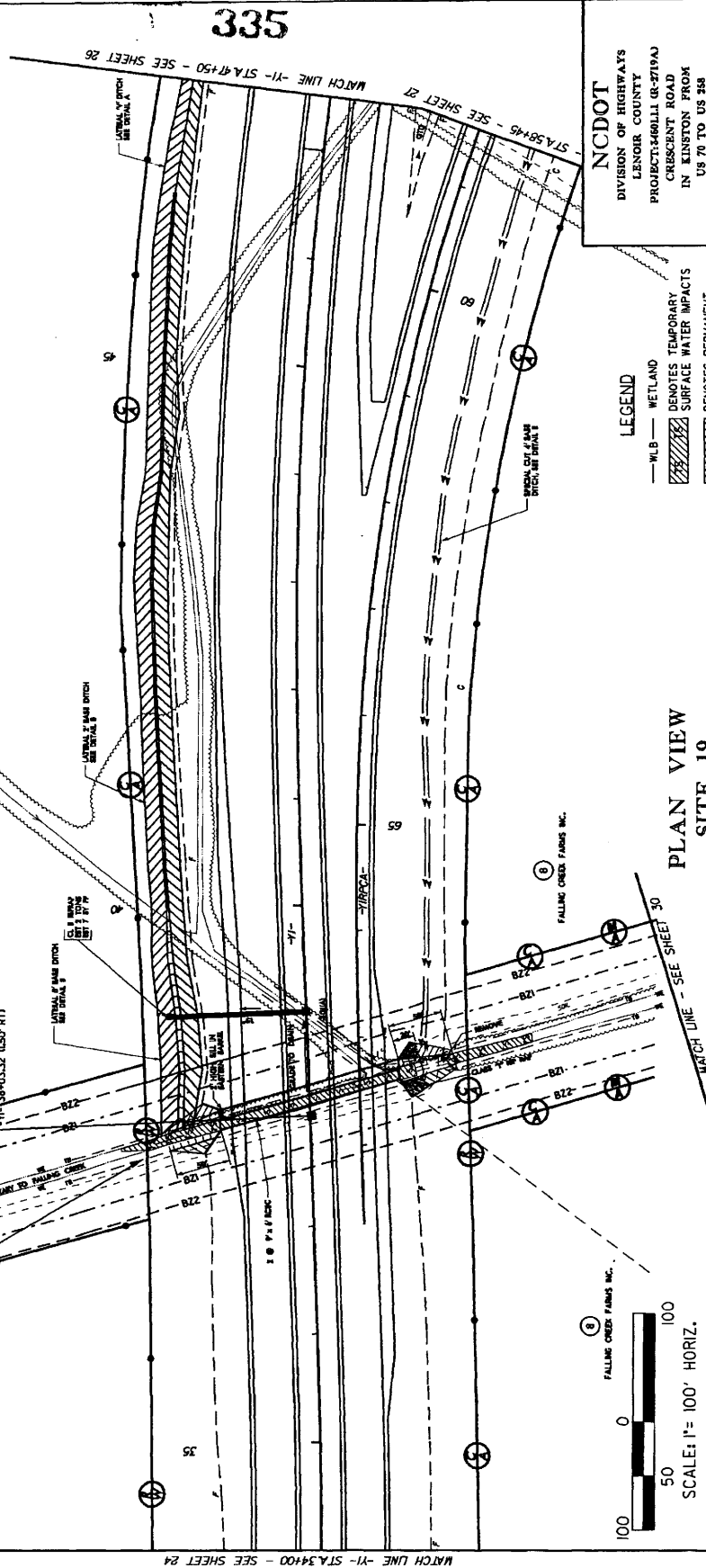
**-Y1/PC- CURVE DATA**

PI Stn	56+54.4	PI Stn	64+22.55	PI Stn	66+39.81	PI Stn	67+40.58
PC Stn	49+35.32	PC Stn	61+00.00	PC Stn	63+59.045 (LT)	PC Stn	65+05.717
PT Stn	56+54.4	PT Stn	61+00.00	PT Stn	63+59.045 (LT)	PT Stn	65+05.717
LS	158.59	L	80.00	L	63.9177	L	113.0000
LT	94.297	L	80.00	L	63.9177	L	113.0000
R	1590.000	R	1590.000	R	3400	R	6000.000
e	6%	e	2.5%	e	2.5%	e	2.5%
		RE	1590.000				

PROPOSED MITIGATION AREA - SEE MITIGATION PLANS  
**SITE 19**  
 -Y1- 38+22  
 FALLING CREEK FARMS, INC.



Permit Drawing  
 Sheet 42 of 66



**LEGEND**

- WLB — WETLAND
- ▨ DENOTES TEMPORARY SURFACE WATER IMPACTS
- ▩ DENOTES PERMANENT SURFACE WATER IMPACTS

**NCDOT**  
 DIVISION OF HIGHWAYS  
 LENOIR COUNTY  
 PROJECT: 146011 (R-2719A)  
 IN KINSTON ROAD  
 US 70 TO US 58

SHEET OF

**PLAN VIEW**  
**SITE 19**

MATCH LINE - SEE SHEET 25A

MATCH LINE -Y1- STA 34+00 - SEE SHEET 24

MATCH LINE -Y1- STA 47+50 - SEE SHEET 26

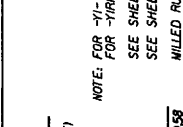
MATCH LINE - SEE SHEET 30

DATE: 12/15/08  
 DRAWN BY: J. B. BROWN  
 CHECKED BY: J. B. BROWN  
 SCALE: 1"= 100' HORIZ.  
 SHEET 25 OF 66

PROJECT REFERENCE NO.	R-2719A
PROJECT NO.	27
DESIGNER	URS
DATE	10/11/08
BY	URS
CHECKED BY	URS
APPROVED BY	URS

**PRELIMINARY PLANS**  
 TO BE USED FOR CONSTRUCTION

**UR**  
 URS Corporation  
 1000 North 17th Street  
 Suite 1000  
 Raleigh, NC 27601-1000  
 Phone: 919.489.2000  
 Fax: 919.489.2001  
 www.urscorp.com



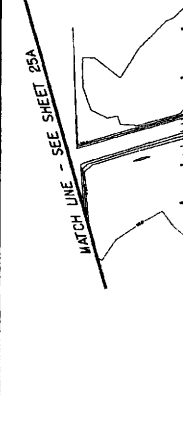
NOTE: FOR -Y1- PROFILE, SEE SHEETS 46 & 47  
 FOR -Y1RCPA- PROFILE, SEE SHEET 56  
 SEE SHEET 2-4 FOR DRAINAGE DITCH DETAILS  
 SEE SHEET 2-4 FOR CULVERT CHANNEL DETAILS  
 MILLED RUMBLE STRIPS SHALL BE PLACED ON -Y1-  
 ACCORDING TO NCDOT STANDARD DRAWING M6.66501  
 FOR GORE DETAIL SEE NCDOT STANDARD DRAWING 225.03

**-Y1- CURVE DATA**

PI STA	64.18285	PI STA	67.49058
PG STA	41.98322	PG STA	64.14254 (RT)
LS	34.000	L	1.29595
LI	227.36	L	4.28300
ST	103.68	R	3.28000
		e	5.5%

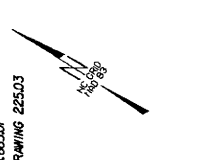
**-Y1RCPA- CURVE DATA**

PI STA	64.18285	PI STA	67.49058
PG STA	41.98322	PG STA	64.14254 (RT)
LS	34.000	L	1.29595
LI	227.36	L	4.28300
ST	103.68	R	3.28000
		e	5.5%



**PROPOSED MITIGATION AREA - SEE MITIGATION PLANS**  
**SITE 19**  
**-Y1- 38 + 22**  
 FALLING CREEK FARMS INC.

Permit Drawing  
 Sheet 42 of 66



**NCDOT**  
 DIVISION OF HIGHWAYS  
 LENOIR COUNTY  
 PROJECT: 046011 (R-2719A)  
 IN KINSTON FROM  
 US 70 TO US 248

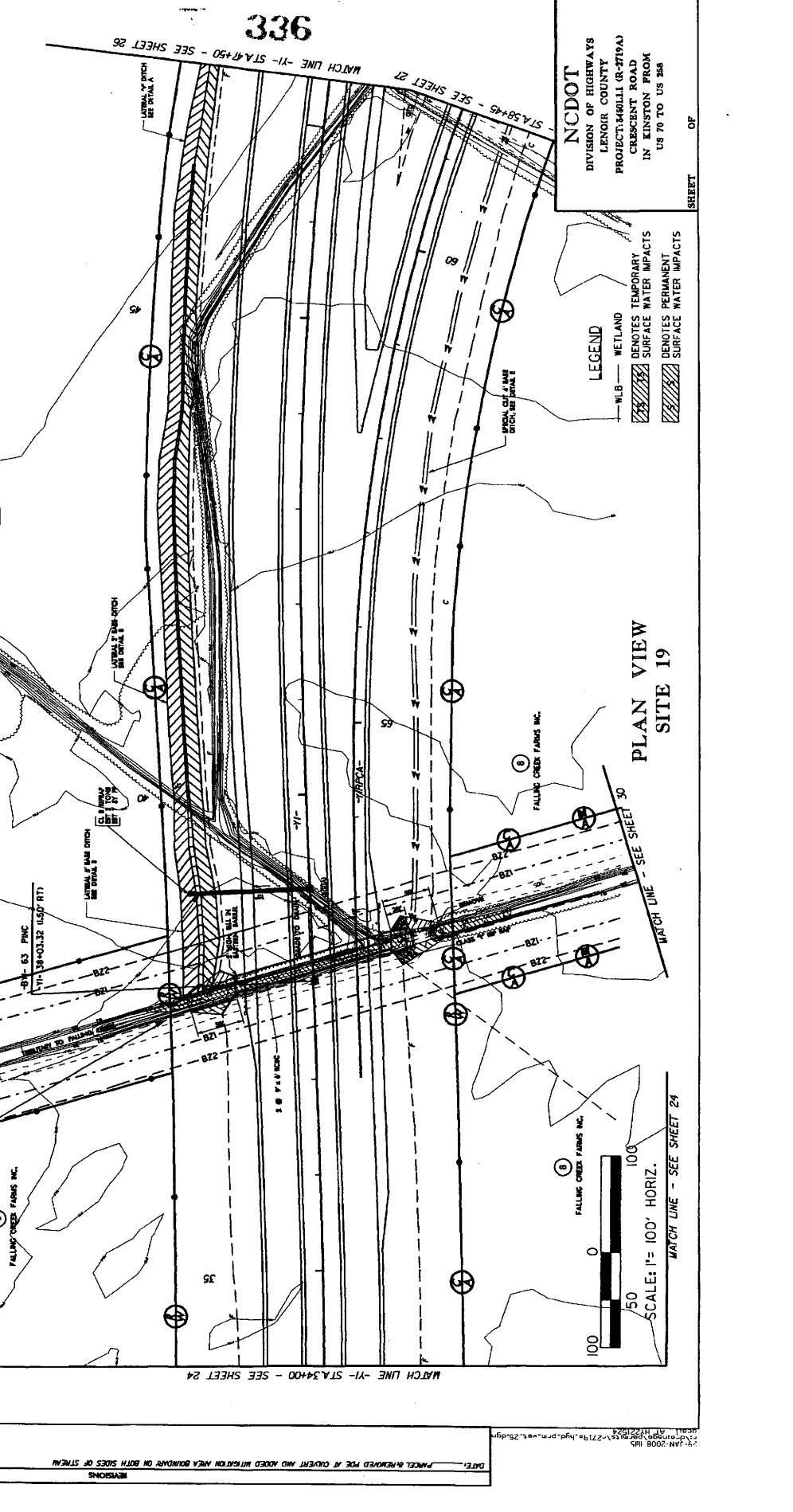
**LEGEND**  
 WLB - WETLAND  
 DENOTES TEMPORARY SURFACE WATER IMPACTS  
 DENOTES PERMANENT SURFACE WATER IMPACTS

**PLAN VIEW**  
**SITE 19**



MATCH LINE - Y1- STA. 34+00 - SEE SHEET 24  
 MATCH LINE - Y1- STA. 47+50 - SEE SHEET 26  
 MATCH LINE - SEE SHEET 25A  
 MATCH LINE - SEE SHEET 30

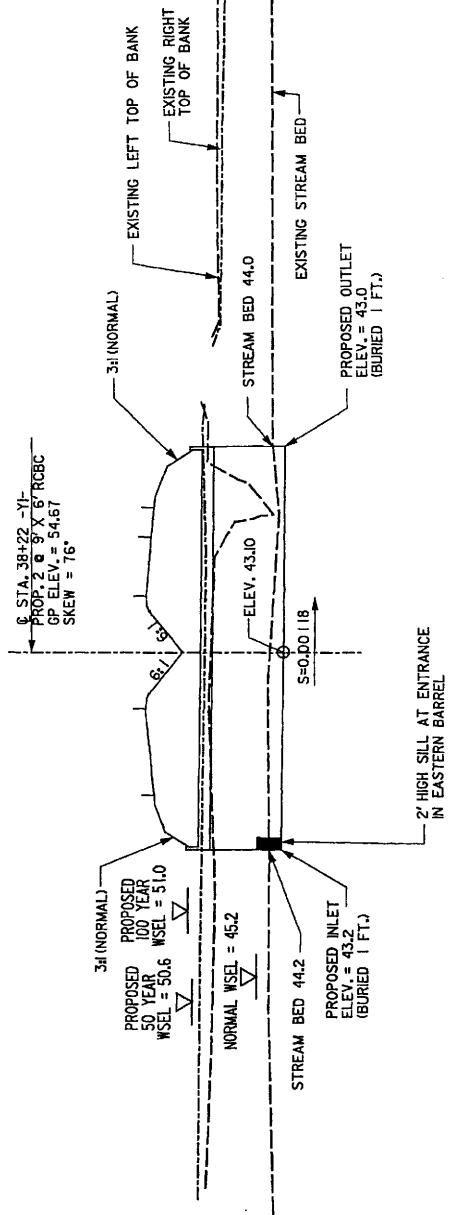
DATE: 10/11/08  
 REVISIONS



PROJECT REFERENCE NO. R-2719A SHEET NO. 519-EAS  
 ROADWAY DESIGN HYDRAULICS ENGINEER  
 PREPARED BY PLANS  
 FOR THE USE OF THE CONTRACTOR

Permit Drawing  
 Sheet 44 of 66

70  
60  
50  
40  
30



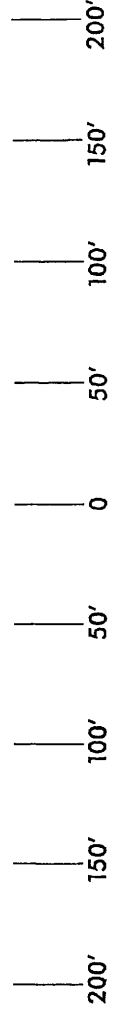
337



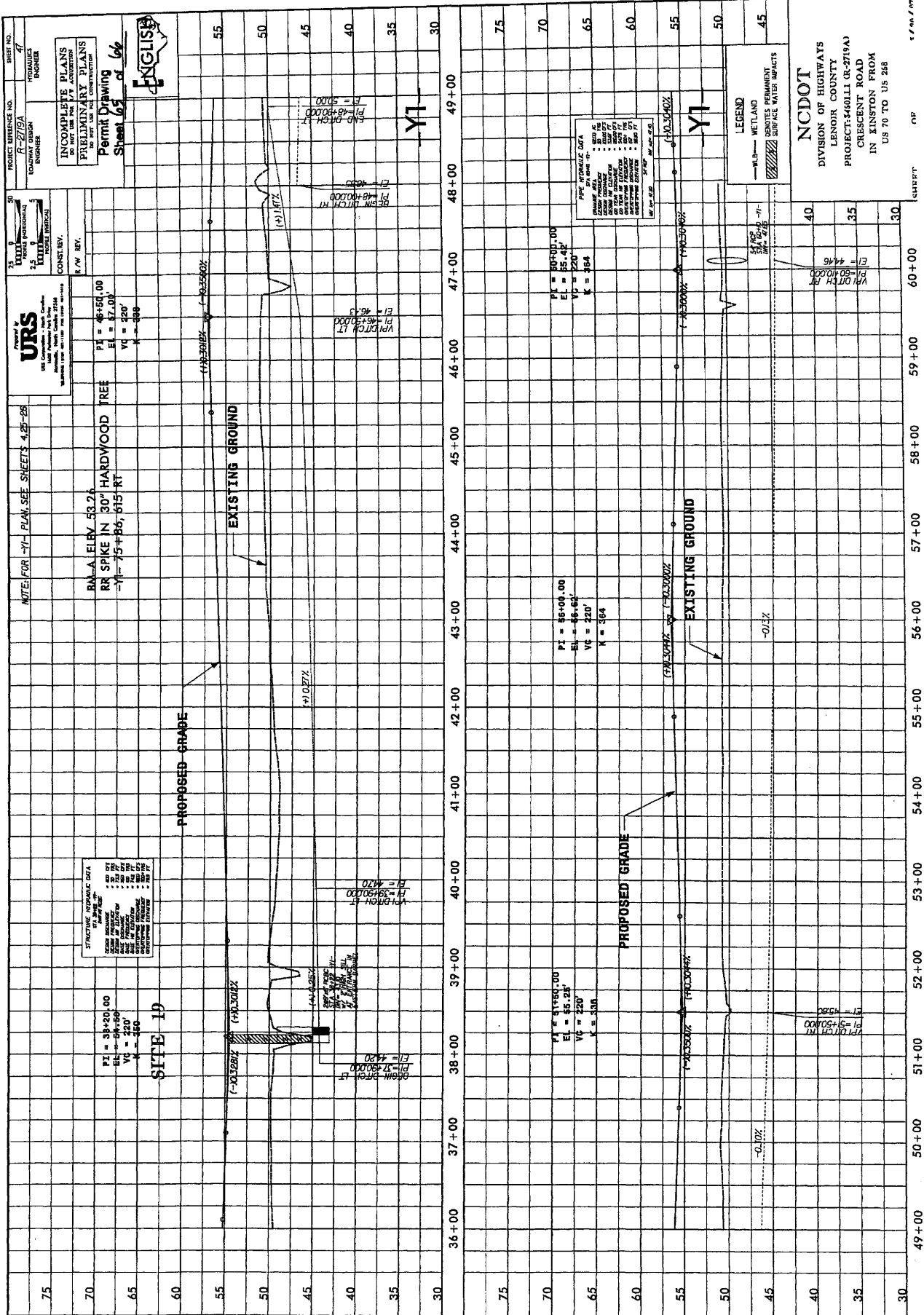
NCDDOT  
 DIVISION OF HIGHWAYS  
 LENOIR COUNTY  
 PROJECT: 3450L11 (R-2719A)  
 CRESCENT ROAD  
 IN KINSTON FROM  
 US 70 TO US 268

SHEET OF 5/26/06

PROFILE ALONG STRUCTURE  
 SITE 19



SCALE:  
 1" = 50' HORIZONTAL  
 1" = 10' VERTICAL



PROJECT REFERENCE NO. R-2719A  
 CONTRACT NO. 2010-01-0001  
 DRAWING NO. 47  
 ENGINEER

INCOMPLETE PLANS  
 PRELIMINARY PLANS  
 DO NOT USE FOR CONSTRUCTION  
 Permit Drawing  
 Sheet 65 of 66

ENGLISH

UR  
 CONSULTING ENGINEERS  
 10000 Rockville Pike  
 Rockville, MD 20850  
 301-981-9800

CONST. REV.  
 K/W REV.  
 PI = 38+20.00  
 EL = 51.80'  
 VC = 220'  
 K = 348

NOTE: FOR -Y1- PLAN, SEE SHEETS 4.85-28  
 BRN. A. ELEV. 53.24  
 RR SPIKE IN 30" HARDWOOD TREE  
 -Y1- 75+86, 615-RT

STRUCTURE INVERT DATA  
 EL 2.00'  
 EL 2.00'  
 EL 2.00'  
 EL 2.00'  
 EL 2.00'  
 EL 2.00'  
 EL 2.00'

PI = 38+20.00  
 EL = 51.80'  
 VC = 220'  
 K = 348

SITE 10

BRN. Pylon LI  
 PI = 37+50.00  
 EL = 44.20'

BRN. Pylon LI  
 PI = 37+50.00  
 EL = 44.20'

BRN. Pylon LI  
 PI = 37+50.00  
 EL = 44.20'

PI = 46+00.00  
 EL = 46.62'  
 VC = 220'  
 K = 364

PI = 46+00.00  
 EL = 46.62'  
 VC = 220'  
 K = 364

PI = 46+00.00  
 EL = 46.62'  
 VC = 220'  
 K = 364

EXISTING GROUND

EXISTING GROUND

LEGEND  
 WLD - WETLAND  
 BND - BOUNDARY  
 SURFACE WATER IMPACTS

NCDOT  
 DIVISION OF HIGHWAYS  
 LENOIR COUNTY  
 PROJECT: S460LI (R-2719A)  
 IN KINSTON FROM  
 US 70 TO US 268

DATE: 06/17/10

SCALE: 1" = 20'

DATE: 06/17/10

DATE: 06/17/10

DATE: 06/17/10

DATE: 06/17/10

DATE: 06/17/10

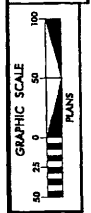


PROJECT REFERENCE NO. **R-2719A** SHEET NO. **25A**  
 DRAWING NO. **25A**  
 ROADWAY DESIGN ENGINEER  
 PRELIMINARY PLANS  
 DO NOT USE FOR CONSTRUCTION

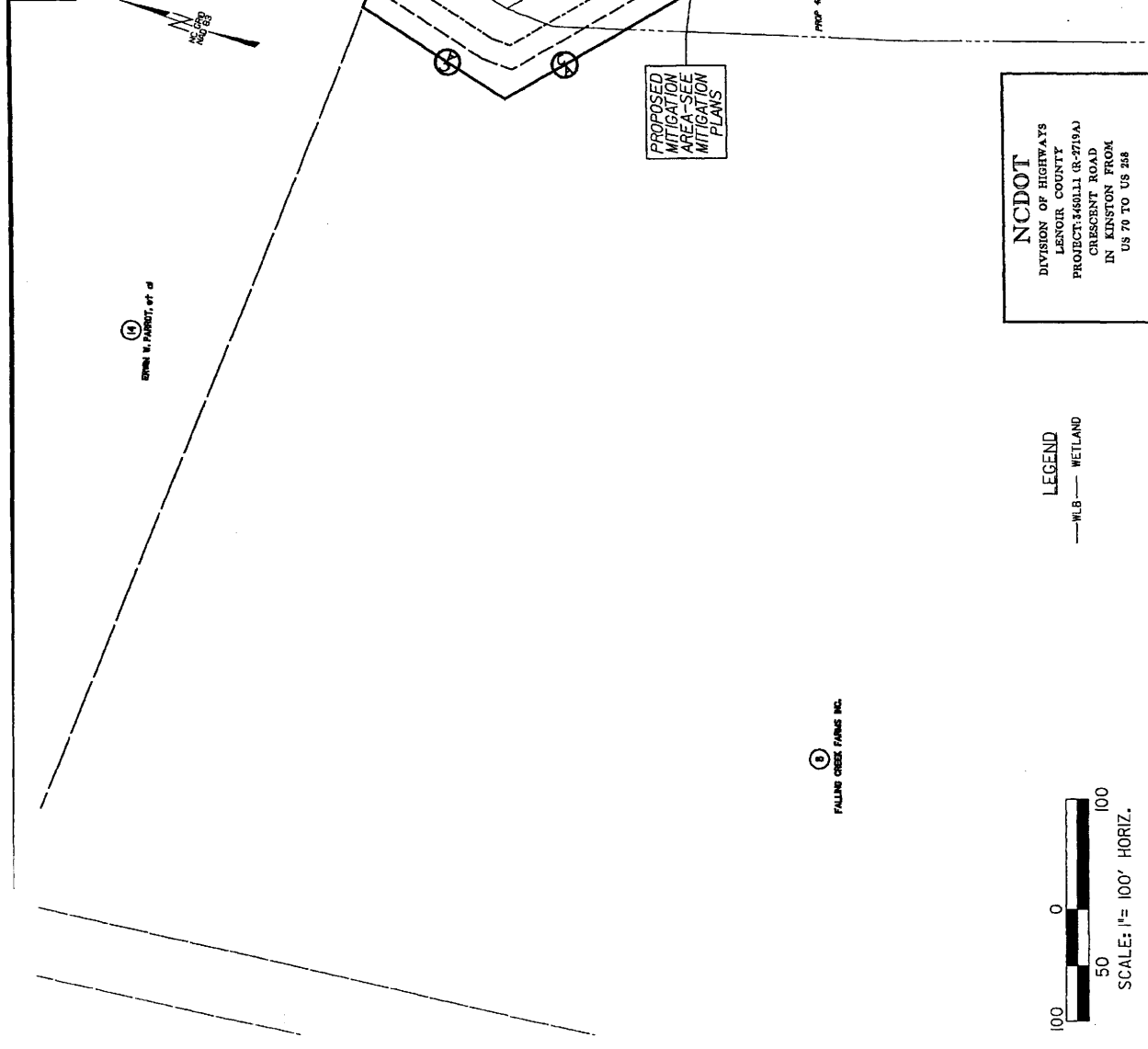
Permit Drawing  
 Sheet **66** of **66**



UR  
 CONSULTANTS  
 1000 Peachtree Street, N.E.  
 Atlanta, Georgia 30309  
 Phone: 404.524.2000  
 Fax: 404.524.2001

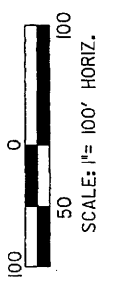


339



NCDOT  
 DIVISION OF HIGHWAYS  
 LENOIR COUNTY  
 PROJECT: 346011 (R-2719A)  
 CRESCENT ROAD  
 IN KINSTON FROM  
 US 70 TO US 258

LEGEND  
 —WLB— WETLAND

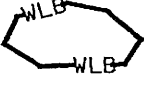




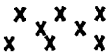

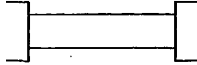
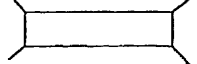


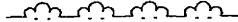

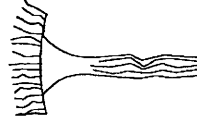



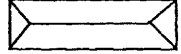
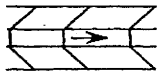


9/11/07  
 SHEET OF





# BUFFER LEGEND

- |   |   |
|---|---|
| <p>— WLB — WETLAND BOUNDARY</p> <p> WETLAND</p> <p> ALLOWABLE IMPACTS ZONE 1</p> <p> ALLOWABLE IMPACTS ZONE 2</p> <p> MITIGABLE IMPACTS ZONE 1</p> <p> MITIGABLE IMPACTS ZONE 2</p> <p>— BZ — RIPARIAN BUFFER ZONE</p> <p>— BZ1 — RIPARIAN BUFFER ZONE 1<br/>30 ft (9.2m)</p> <p>— BZ2 — RIPARIAN BUFFER ZONE 2<br/>20 ft (6.1m)</p> <p>→ → FLOW DIRECTION</p> <p>— TB — TOP OF BANK</p> <p>— WE — EDGE OF WATER</p> <p>— C — PROP. LIMIT OF CUT</p> <p>— F — PROP. LIMIT OF FILL</p> <p>— △ — PROP. RIGHT OF WAY</p> <p>— NG — NATURAL GROUND</p> <p>— PL — PROPERTY LINE</p> <p>— TDE — TEMP. DRAINAGE EASEMENT</p> <p>— PDE — PERMANENT DRAINAGE EASEMENT</p> <p>— EAB — EXIST. ENDANGERED ANIMAL BOUNDARY</p> <p>— EPB — EXIST. ENDANGERED PLANT BOUNDARY</p> <p>— ∇ — WATER SURFACE</p> <p> LIVE STAKES</p> <p> BOULDER</p> <p>— COIR FIBER ROLLS</p> | <p> PROPOSED BRIDGE</p> <p> PROPOSED BOX CULVERT</p> <p> PROPOSED PIPE CULVERT<br/>12"-48"<br/>PIPES<br/>54" PIPES &amp; ABOVE</p> <p>(DASHED LINES DENOTE EXISTING STRUCTURES)</p> <p> SINGLE TREE</p> <p> WOODS LINE</p> <p> DRAINAGE INLET</p> <p> ROOTWAD</p> <p> RIP RAP</p> <p> ADJACENT PROPERTY OWNER OR PARCEL NUMBER IF AVAILABLE</p> <p> PREFORMED SCOUR HOLE (PSH)</p> <p> LEVEL SPREADER (LS)</p> <p> DITCH/GRASS SWALE</p> |
|---|---|

**Buffer Drawing**  
**Sheet 3 of 31**

**NCDOT**  
DIVISION OF HIGHWAYS  
LENOIR COUNTY  
PROJECT: 3450LL1 (R-2719A)  
CRESCENT ROAD  
IN KINSTON FROM  
US 70 TO US 258

K:\GIS\2005\0510\0510\pgrm\sa\2719a\figd\grm.buf\_sah.dgn  
Co. & Associates, P.A.

## BUFFER IMPACTS SUMMARY OF AFFECTED PROPERTY OWNERS

TRACT NO.	PROPERTY OWNER	ADDRESS	SITE NO.
(8)	FALLING CREEK FARMS INC.	818 WEST MINISTER LN KINSTON, NC 28501	13
(14)	ERWIN W. PARROT, et al	818 WEST MINISTER LN KINSTON, NC 28501	1,2,3 & 4
(16)	PROPERTY OF LENOIR COUNTY	PO BOX 3289 KINSTON, NC 28502-3289	1,2
(33)	FALLING CREEK FARMS INC.	818 WEST MINISTER LN KINSTON, NC 28501	2,5
(34)	JOHN P. CASEY	2702 BANKS SCHOOL RD KINSTON, NC 28504	6
(38)	THE STATE OF NORTH CAROLINA	116 WEST JONES ST RALEIGH, NC 27603	6,7
(46)	THE STATE OF NORTH CAROLINA	116 WEST JONES ST RALEIGH, NC 27603	8
(48)	THE STATE OF NORTH CAROLINA	116 WEST JONES ST RALEIGH, NC 27603	8
(51)	ELLIS A. KING, et al	PO BOX 6007 KINSTON, NC 28502	8,9
(60)	HATTIE E. DALY ESTATE	12807 PINE TREE LANE FORT WASHINGTON, MD 20744	9
(62)	NINA L. HILL	2189 PAULS PATH ROAD KINSTON, NC 28504	10

Buffer Drawing  
Sheet 4 of 31



**NCDOT**  
DIVISION OF HIGHWAYS  
LENOIR COUNTY  
PROJECT: 3450L11 (R-2719A)  
CRESCENT ROAD  
IN KINSTON FROM  
US 70 TO US 258

8/21/2007 10:45:00 AM \\p01101\work\p01101\2719a\figs\p01101\_buf\_1.shdgn

**BUFFER IMPACTS SUMMARY**

SITE NO.	STRUCTURE SIZE / TYPE	STATION (FROM/TO)	TYPE				IMPACT ALLOWABLE				MITIGABLE			BUFFER REPLACEMENT			
			ROAD CROSSING	BRIDGE	PARALLEL IMPACT	ZONE 1 (ft²)	ZONE 2 (ft²)	TOTAL (ft²)	ZONE 1 (ft²)	ZONE 2 (ft²)	TOTAL (ft²)	ZONE 1 (ft²)	ZONE 2 (ft²)	TOTAL (ft²)	ZONE 1 (ft²)	ZONE 2 (ft²)	
1	3@12'X10' RCBC	-Y1- 74+43	X										37815	22339	60154		
2	3@12'X10' RCBC	-Y1RPCA- 16+14	X										49052	29064	78116		
3	60" RCP	-L- 69+50	X										10004	6561	16565		
4	60" RCP	-Y1RPCA- 9+20	X				7794	5174	12968								
5	2@60" RCP	-SVRD5- 21+90	X				4119	2798	6917								
6	DUAL BRIDGES	-L- 87+50		X			20004	14987	34991								
7*	36" RCP	-L- 103+73	X										19349	14532	33881		
8	2@9'X8' RCBC	-L- 139+60	X										21619	12965	34584		
9	2@8'X8' RCBC	-L- 153+62	X										17781	10457	28238		
10	EXISTING 15" PLASTIC PIPE	-SVRD4- 19+00	X														
11	TEMP 48" CSP	-Y6- 33+75	X				6596	4469	11065								
12	EXISTING BRIDGE	-Y1- 15+00	X														
13	2@9'X6' RCBC	-Y1- 38+22	X										19945	10495	30440		
<b>TOTAL:</b>							38513	28143	66656				175565	106413	281978		

\* SEE MITIGATION PLANS

Site 6 - Impacts include need for Construction Access to Bridge/Piers.

N.C. DEPT. OF TRANSPORTATION  
DIVISION OF HIGHWAYS  
LENOIR COUNTY  
PROJECT: 34501.1.1 (R-2719A)

Buffer Drawing  
Sheet 5 of 31

9/20/2007  
SHEET OF



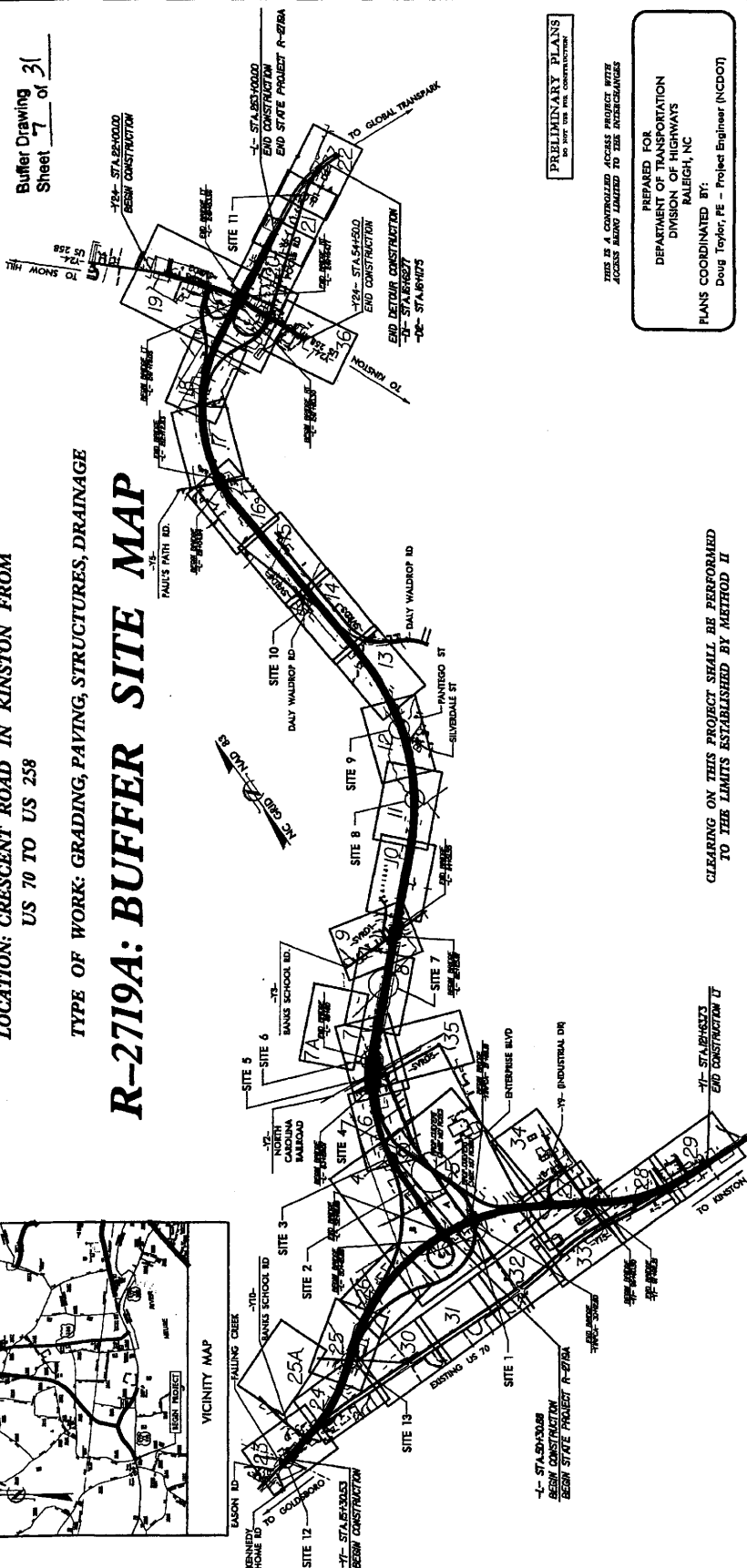
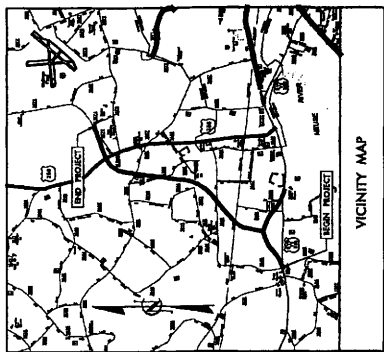
STATE OF NORTH CAROLINA  
DIVISION OF HIGHWAYS  
**LENOIR COUNTY**

LOCATION: CRESCENT ROAD IN KINSTON FROM  
US 70 TO US 258

TYPE OF WORK: GRADING, PAVING, STRUCTURES, DRAINAGE  
**R-2719A: BUFFER SITE MAP**

Buffer Drawing  
Sheet 7 of 31

STATE	N.C.	PROJECT NUMBER	R-2719A	SHEET	1
FED. AID DIST. NO.		CONTRACT NO.		DATE	
SECTION	34501.11	SIT-0224(8)	RE		
	34501.24	SIT-0224(8)	ROW, UH.		



PRELIMINARY PLANS  
DO NOT USE FOR CONSTRUCTION

THIS IS A CONTROLLED ACCESS PROJECT WITH ACCESS LIMITED TO THE SUBGRADE

PREPARED FOR  
DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS  
RALEIGH, NC

PLANS COORDINATED BY:  
Doug Taylor, PE - Project Engineer (NCDOT)



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

Prepared for the Division of Highways in the Office of:  
**URS CORPORATION - NORTH CAROLINA**  
1609 Perimeter Park Dr., Morrisville, North Carolina 27568  
Telephone (919) 461-1100 Fax (919) 461-4115  
SEE RELATED SPECIFICATIONS

RIGHT OF WAY DATE: **TIMOTHY H. KEENER, P.E.**  
PROJECT ENGINEER

LETTING DATE: **MICHAEL LINDGREN, P.E.**  
PROJECT DESIGN ENGINEER

AUGUST 31, 2005  
OCTOBER 2008

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

PROJECT LENGTH

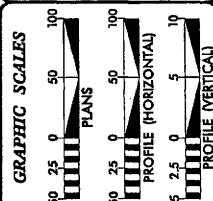
LENGTH ROADWAY TIP PROJECT R-2719A	= 3.772 MI
LENGTH STRUCTURE TIP PROJECT R-2719A	= 0.256 MI
TOTAL LENGTH OF TIP PROJECT R-2719A	= 4.028 MI

NOTE: SOUTHERND LINES WERE USED FOR PROJECT LENGTH CALCULATIONS

DESIGN DATA

ADT 2007	= 26,510
ADT 2027	= 46,060
DHV	= 10 %
D	= 55 %
T	= 14 % *
V	= 70 MPH

\* TTST 10% DUAL 4%



See Sheet 1-A For Index of Sheets  
See Sheet 1-B For Standard Symboling Sheet

TIP PROJECT: R-2719A

CONTRACT:

PLANS  
AUGUST 2005





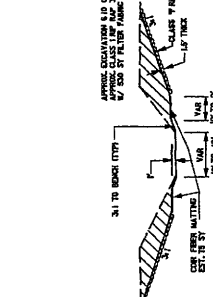
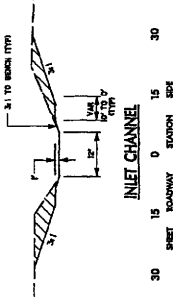
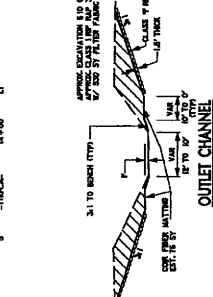
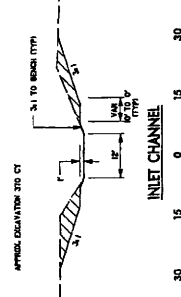
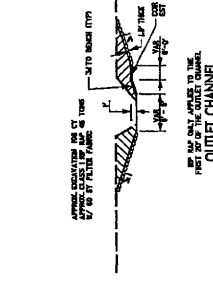
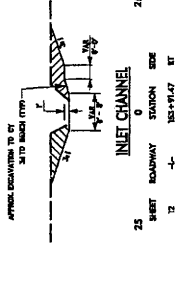
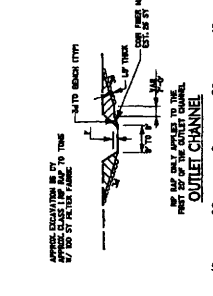
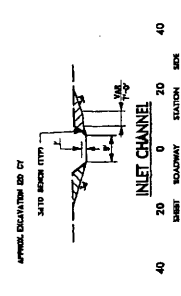
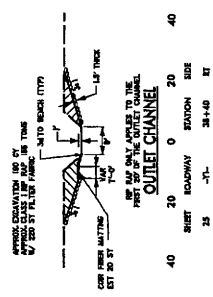
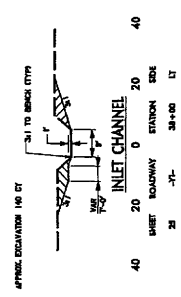
PROJECT REFERENCE NO. R-279A  
 SHEET NO. 24  
 HYDRAULICS ENGINEER  
 ROADWAY DESIGN ENGINEER  
 PRELIMINARY PLANS  
 DO NOT USE FOR CONSTRUCTION

**URS**  
 UNIVERSITY RESOURCES  
 CORPORATION  
 1000 PINE STREET, SUITE 1000  
 DENVER, COLORADO 80202  
 PHONE: 303.733.1000  
 FAX: 303.733.1001  
 WWW.URS-CORP.COM

**SHEET NOT TO SCALE**

Buffer Drawing  
 Sheet 4 of 31

**CULVERT CHANNEL DETAILS**



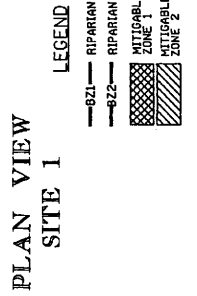
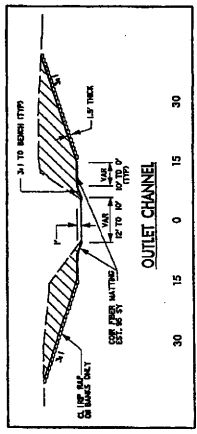
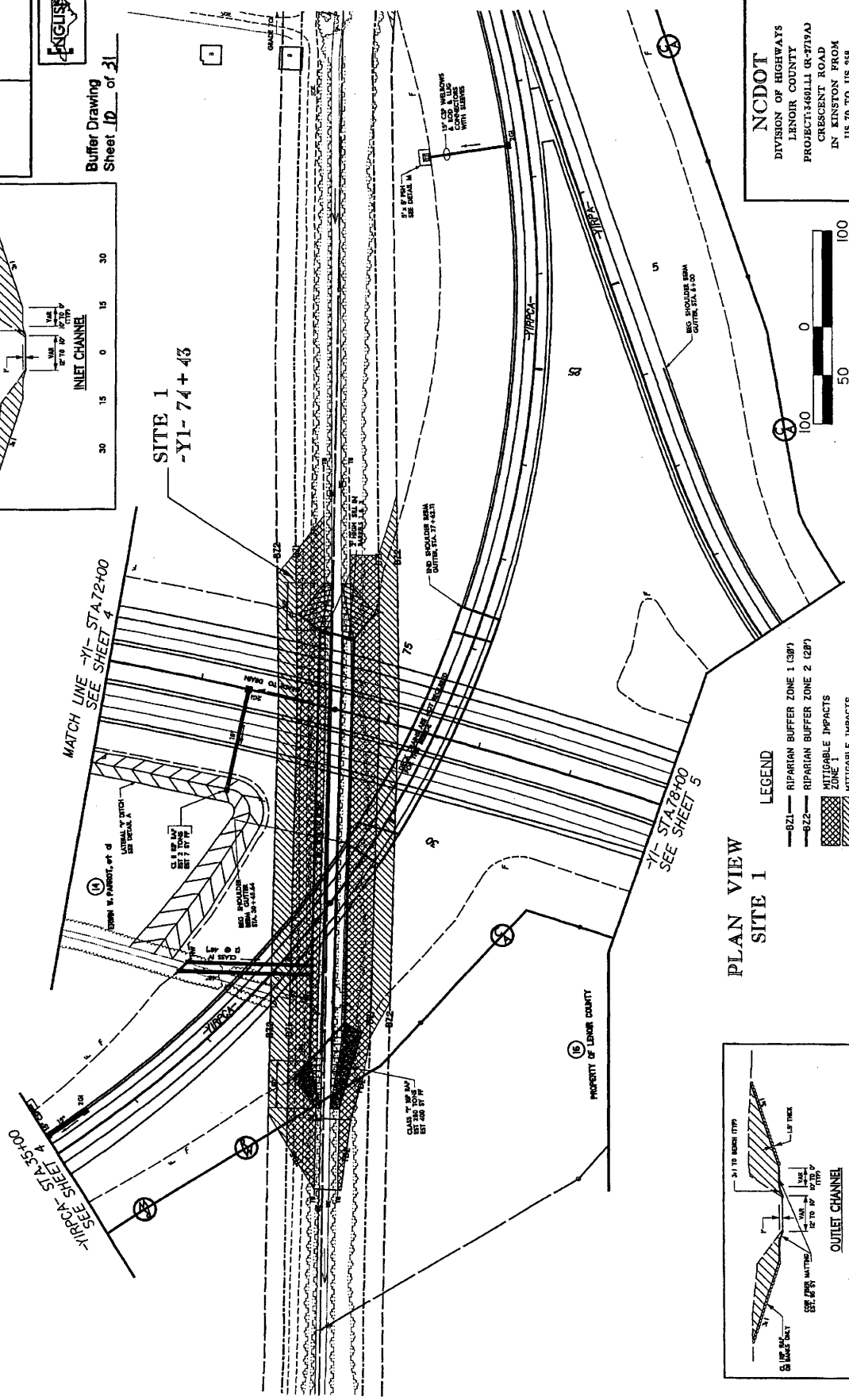
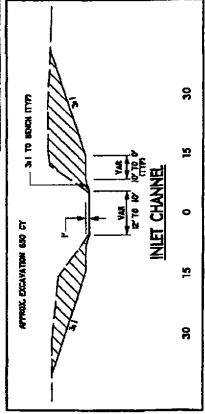
REVISIONS

PROJECT REFERENCE NO. **R-2719A**  
 SHEET NO. **5**  
 DATE: **11/11/09**  
 PROJECT: **CONCRETE BRIDGE**  
 DRAWING: **PRELIMINARY PLANS**  
 FOR THE **CONSTRUCTION**

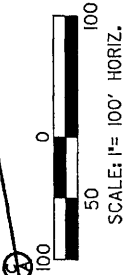
**URS**  
 UNITED STATES OF AMERICA  
 19000 North Central Expressway  
 Suite 1000  
 Dallas, Texas 75241  
 Telephone: 972.960.8600  
 Fax: 972.960.8601  
 www.urscorp.com



Buffer Drawing  
 Sheet ID of 31



**NCDOT**  
 DIVISION OF HIGHWAYS  
 LENOIR COUNTY  
 PROJECT 3460LLI (R-2719A)  
 CRESCENT ROAD  
 IN KINSTON FROM  
 US 70 TO US 358



SHEET 5 OF 5  
 8-27-07

PROJECT REFERENCE NO. R-279A  
 SHEET NO. 5  
 HYDRAULICS ENGINEER

PRELIMINARY PLANS  
 DO NOT USE FOR CONSTRUCTION

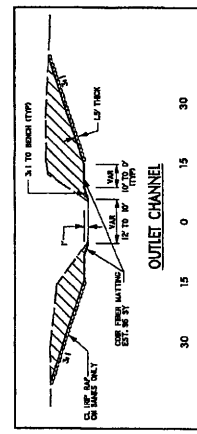
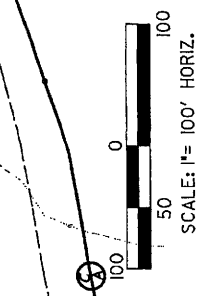
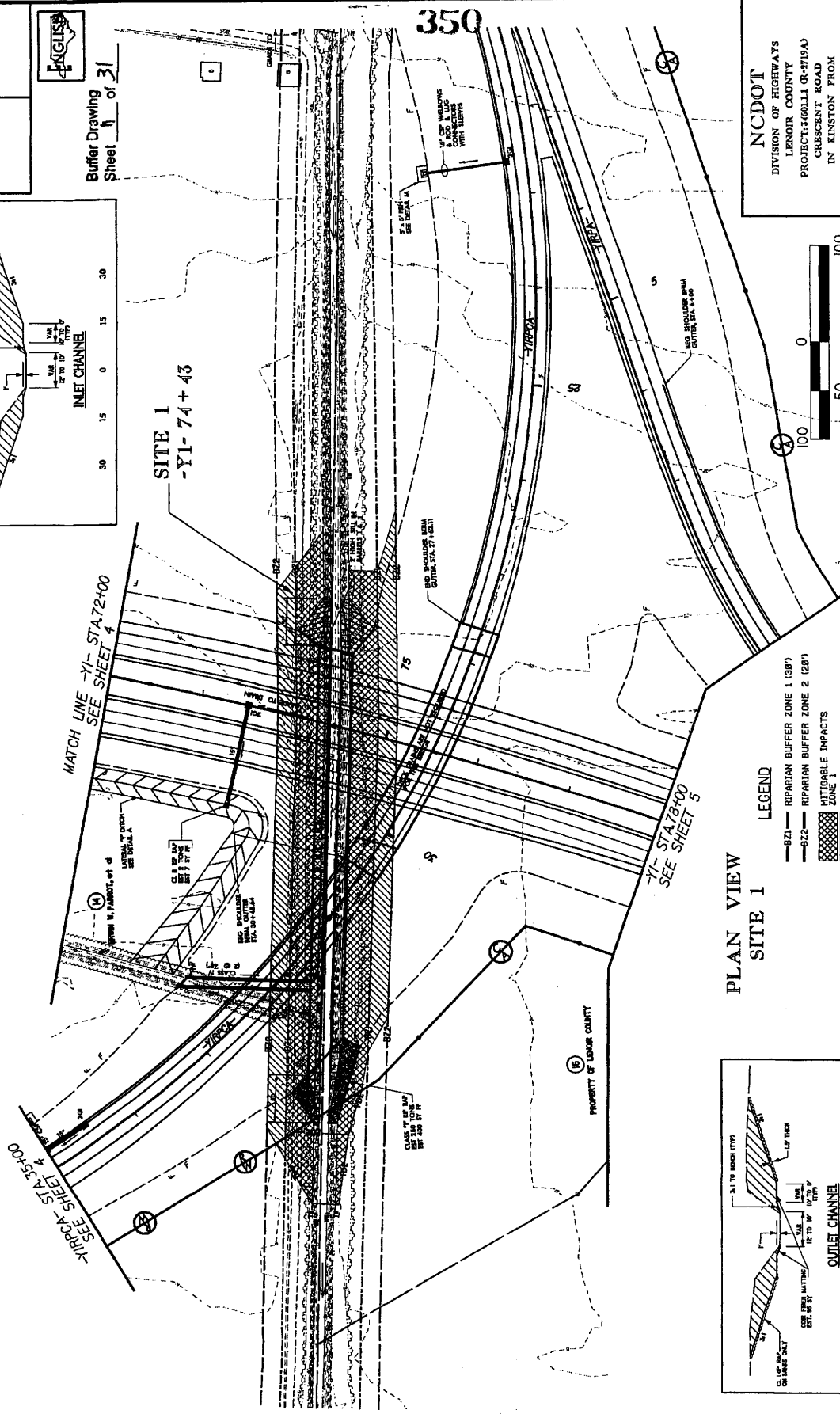
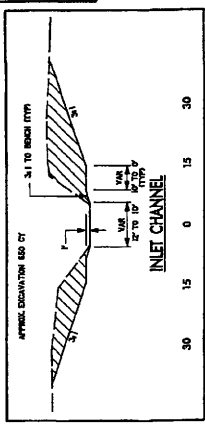
ENGLISH

Buffer Drawing Sheet 4 of 31

NCDOT  
 DIVISION OF HIGHWAYS  
 LENOIR COUNTY  
 PROJECT 146011 (G-279A)  
 CRESCENT ROAD  
 IN KINSTON FROM  
 US 70 TO US 248

SHEET 4 OF 31

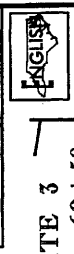
URS  
 CONSULTING ENGINEERS  
 10000 RIVERSIDE DRIVE  
 FAYETTEVILLE, NC 27533



PROJECT REFERENCE NO. **R-278A**  
 SHEET NO. **5A**  
 HYDRAULICS  
 ROADWAY DESIGN  
 BUFFER

**PRELIMINARY PLANS**  
 FOR THE  
**Buffer Drawing**  
 Sheet 12  
 of 31

**URS**  
 CONSULTANTS  
 1000 Peachtree Street, N.E.  
 Atlanta, Georgia 30309  
 PHONE (404) 521-8800  
 FAX (404) 521-8801  
 WWW.URS.COM



**SITE 3**  
 -L- 69+50

**SITE 4**  
 -YIRPCA-  
 9+20

**SITE 2**  
 -YIRPCA- 16+14

**SITE 1**  
 -L- 69+50

**SEE SHEET 6**

**351**

**LEGEND**

—BZ1— RIPARIAN BUFFER ZONE 1 (387)  
 —BZ2— RIPARIAN BUFFER ZONE 2 (287)

MITIGABLE IMPACTS  
 ZONE 1

MITIGABLE IMPACTS  
 ZONE 2

ALLOWABLE IMPACTS  
 ZONE 1

ALLOWABLE IMPACTS  
 ZONE 2

MITIGABLE IMPACTS  
 ZONE 1

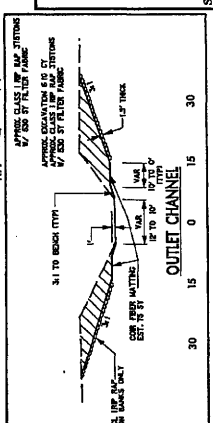
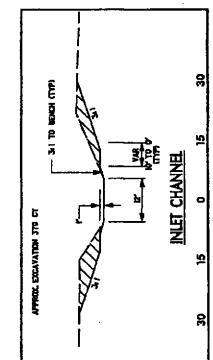
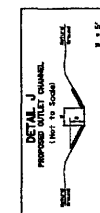
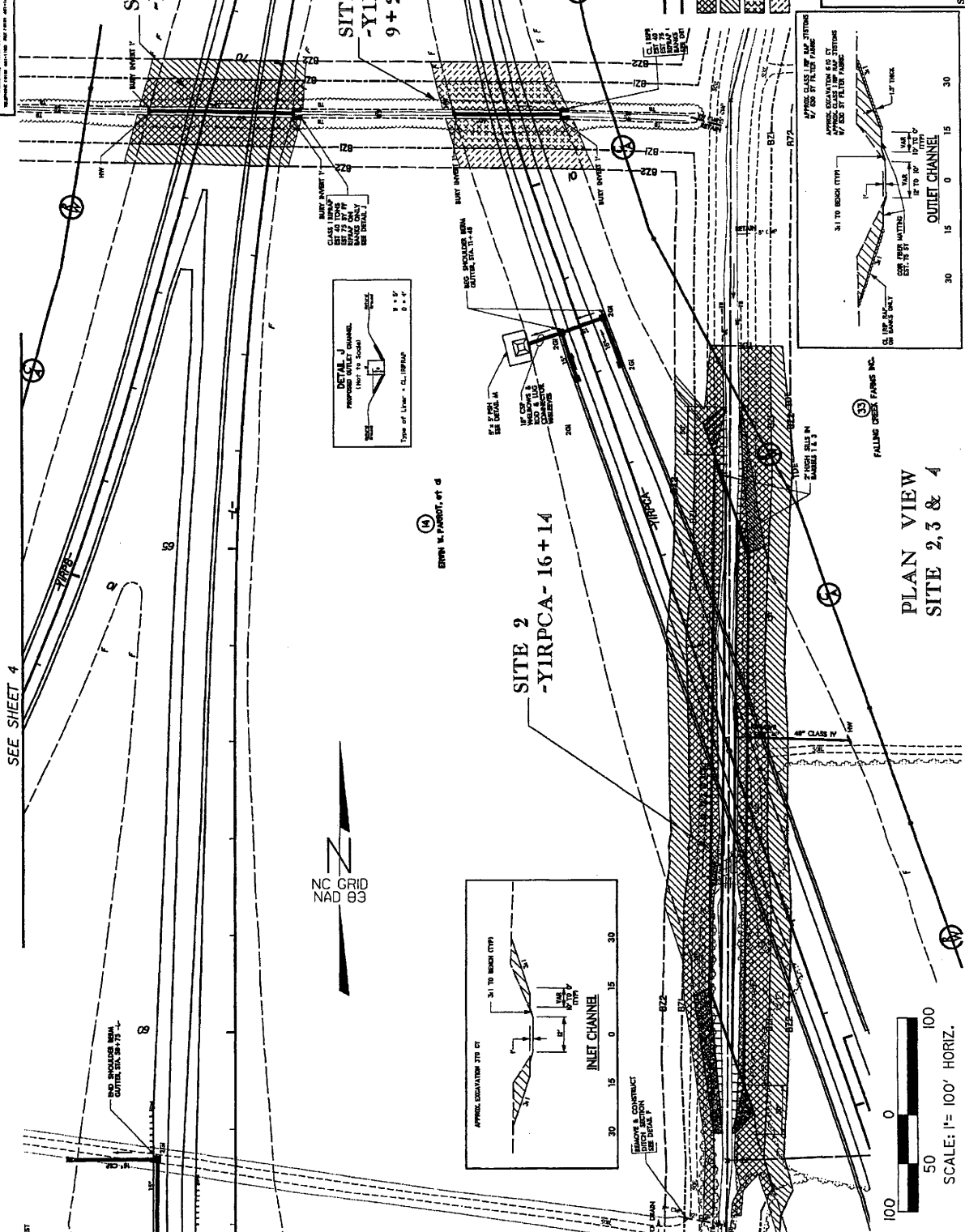
MITIGABLE IMPACTS  
 ZONE 2

ALLOWABLE IMPACTS  
 ZONE 1

ALLOWABLE IMPACTS  
 ZONE 2

**NCDOT**  
 DIVISION OF HIGHWAYS  
 LENOIR COUNTY  
 PROJECT#46011 G-278A  
 CRESCENT ROAD  
 IN KINSTON FROM  
 US 70 TO US 248

SHEET **12** OF **31**



SCALE: 1" = 100' HORIZ.

**PLAN VIEW**  
**SITE 2, 3 & 4**

FALLING CREEK FANNING INC.

PROJECT REFERENCE NO. SHEET NO.  
 A-2/BA 3A

HYDRAULICS  
 ROADWAY DESIGN  
 ENGINEER

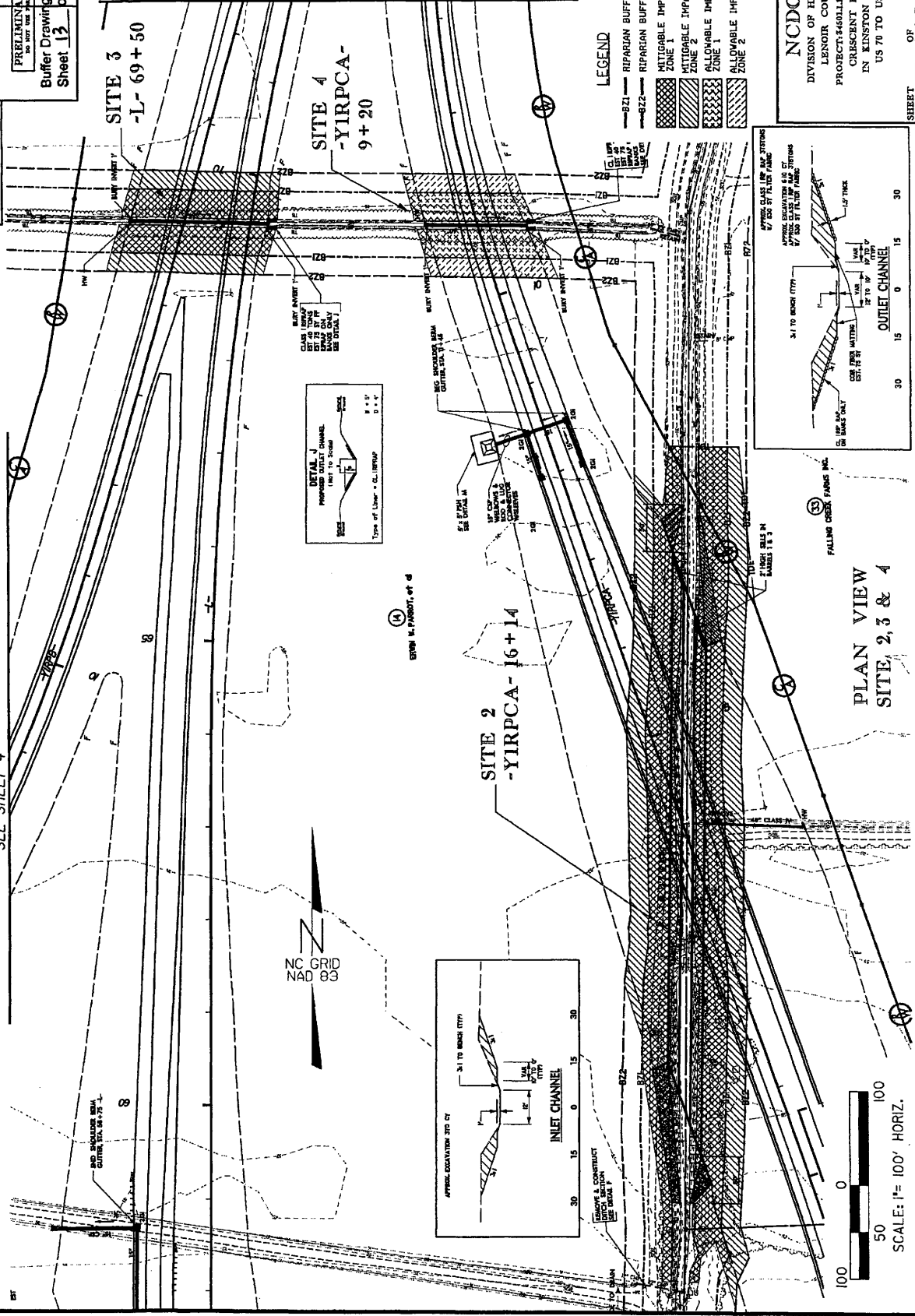
PRELIMINARY PLANS  
 FOR THE CONSTRUCTION OF  
 Buffer Drawing  
 Sheet 13 of 31



352

SEE SHEET 6

SEE SHEET 4

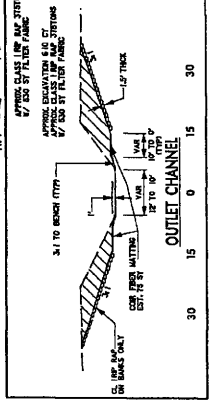
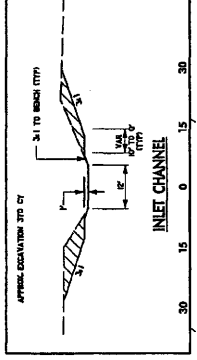
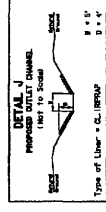


LEGEND

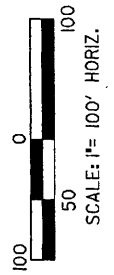
- BZ1— RIPARIAN BUFFER ZONE 1 (30')
- BZ2— RIPARIAN BUFFER ZONE 2 (20')
- MITIGABLE IMPACTS ZONE 1
- MITIGABLE IMPACTS ZONE 2
- ALLOWABLE IMPACTS ZONE 1
- ALLOWABLE IMPACTS ZONE 2

**NC DOT**  
 DIVISION OF HIGHWAYS  
 LENOIR COUNTY  
 PROJECT 460111 GR-010A3  
 CRESCENT ROAD  
 IN KINSTON FROM  
 US 70 TO US 258

SHEET OF 8/27/07



PLAN VIEW  
 SITE 2, 3 & 4



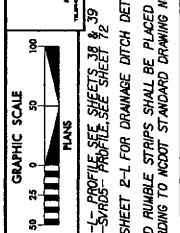
NC GRID  
 NAD 83

STATION 4+00.00, et c

FALLING GREEK PARADE PK

PROJECT REFERENCE NO. R-2719A  
 SHEET NO. 7  
 BUFFER DRAWING  
 SHEET 14 OF 31  
 PRELIMINARY PLANS  
 FOR THE CONSTRUCTION

URS  
 URS CORPORATION  
 1000 PENNSYLVANIA AVENUE, N.W.  
 WASHINGTON, D.C. 20004-2900  
 PHONE: (202) 777-0800  
 FAX: (202) 777-0801  
 WWW: WWW.URS.COM



NOTE: FOR CURVE DATA SEE SHEETS 38 & 39  
 SEE SHEET 2-L FOR DRAINAGE DITCH DETAILS  
 MILLED RUMBLE STRIPS SHALL BE PLACED ON 1-1  
 ACCORDING TO NCDOT STANDARD DRAWING No. 68501

TABLE 1  
 CHANNEL DATA

STATION	CHANNEL WIDTH (FT)	CHANNEL DEPTH (FT)	CHANNEL LENGTH (FT)	CHANNEL AREA (SQ FT)	CHANNEL VOLUME (CU YD)
1+00	14.70	2.8	13	4.4	1.4
2+00	13.0	2.8	14	4.4	1.4
3+00	14.70	2.8	13	4.4	1.4
4+00	13.0	2.8	14	4.4	1.4
5+00	14.70	2.8	13	4.4	1.4
6+00	13.0	2.8	14	4.4	1.4
7+00	14.70	2.8	13	4.4	1.4
8+00	13.0	2.8	14	4.4	1.4
9+00	14.70	2.8	13	4.4	1.4
10+00	13.0	2.8	14	4.4	1.4

LEGEND  
 -BZ1- RIPARIAN BUFFER ZONE 1 (38')  
 -BZ2- RIPARIAN BUFFER ZONE 2 (28')  
 ALLOWABLE IMPACTS  
 ZONE 1  
 ALLOWABLE IMPACTS  
 ZONE 2

USE PROPOSED NOT USED  
 SHALL BE IN 2' OF DITCH  
 CHANNEL LENGTH OF ZONE 1

PROPOSED ALTERNATE MITIGATION PLANS  
 1-1  
 2-1  
 3-1  
 4-1  
 5-1  
 6-1  
 7-1  
 8-1  
 9-1  
 10-1

STATE OF NORTH CAROLINA  
 JOHN F. CASSETT  
 MARY GARDNER  
 FALLING CREEK FARMS INC.  
 FALLING CREEK FARMS INC.

STATE OF NORTH CAROLINA  
 JOHN F. CASSETT  
 MARY GARDNER  
 FALLING CREEK FARMS INC.  
 FALLING CREEK FARMS INC.

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STATE OF NORTH CAROLINA  
 JOHN F. CASSETT  
 MARY GARDNER  
 FALLING CREEK FARMS INC.  
 FALLING CREEK FARMS INC.

353

NCDOT  
 DIVISION OF HIGHWAYS  
 LENOIR COUNTY  
 PROJECT: 3460111 (G-2719A)  
 CRESCENT ROAD  
 IN KINSTON FROM  
 US 70 TO US 258

SCALE: 1" = 100' HORIZ.  
 100  
 50  
 0

PLAN VIEW  
 SITES 5 & 6

MATCH LINE - STA. 19+00 - SEE SHEET 35

MATCH LINE - STA. 87+50

MATCH LINE - STA. 82+00 - SEE SHEET 6

MATCH LINE - STA. 19+00 - SEE SHEET 35

MATCH LINE - STA. 87+50

MATCH LINE - STA. 82+00 - SEE SHEET 6

REVISIONS  
 DATE: 3/20/06 - REVISED TWO PARCEL NUMBERS IN UPPER LEFT AREA OF SHEET FROM 33 TO 14  
 DATE: 6/14/06 - PARCEL 38 ELIMINATED TEMPORARILY FROM PARCEL ASSIGNMENT FOR REGION CONTROL  
 DATE: 8/14/06 - PARCEL 38 ADDED MATCHLINE TO SHEET 7A AND ADDED MITIGATION AREA BOUNDARY

PROJECT REFERENCE NO. R-27193  
 SHEET NO. 7  
 ROADWAY DESIGN HYDRAULICS  
 Buffer Drawing 31  
 Sheet 15 of 31  
 PRELIMINARY PLANS  
 NO PART OF THIS DRAWING TO BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, WITHOUT PERMISSION IN WRITING FROM THE CONSULTANT.

**URS**  
 URS CORPORATION  
 1000 Peachtree Street, N.E.  
 Atlanta, Georgia 30309  
 (404) 521-8800  
 www.urscorp.com

GRAPHIC SCALE  
 0 25 50 100  
 PLANS

NOTE: FOR -L- PROFILE SEE SHEETS 39 & 39  
 FOR -S/RDS- PROFILE SEE SHEET 72  
 SEE SHEET 2-L FOR DRAINAGE DITCH DETAILS  
 MILLED RUMBLE STRIPS SHALL BE PLACED ON -L- ACCORDING TO NCDOT STANDARD DRAWING No.685001

GRASS SWALE STA. 17+00

14.79 AC	14.79 AC
21.8 CR	21.8 CR
12 PPS	12 PPS
44.4 CR	44.4 CR
14 PPS	14 PPS
REARDED LENGTH 1/4 IN FT	REARDED LENGTH 1/4 IN FT
ACTUAL LENGTH 2000 FT	ACTUAL LENGTH 2000 FT
SLOPE	SLOPE
SIDE SLOPE 3:1	SIDE SLOPE 3:1

-L- CURVE DATA  
 PLSW 78+00 (RT) PLSW 87+00  
 Δ = 47.38 254.74°  
 D = 38.15 17.5°  
 L = 304.00  
 T = 152.00  
 R = 3500.00  
 E = 62

**LEGEND**

- 8-21 RIPARIAN BUFFER ZONE 1 (30')
- 8-22 RIPARIAN BUFFER ZONE 2 (20')
- ALLIABLE IMPACTS ZONE 1
- ALLIABLE IMPACTS ZONE 2

LEVELS ARE NOT USED. CAN NOT BE USED UNTIL CHANNEL MADE OF ZONE 1

PROPOSED MITIGATION AREA - SEE MITIGATION PLANS

4" LATERAL BASE DITCH SEE DETAIL 8

MOORED CONCRETE PILE

RESIN W/ FENCE

RESIN W/ FENCE

MOORED CONCRETE PILE

END OF FENCE

STATE OF NORTH CAROLINA

STATE OF NORTH CAROLINA

STATE OF NORTH CAROLINA

STATE OF NORTH CAROLINA

STATE OF NORTH CAROLINA

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STATE OF NORTH CAROLINA

STATE OF NORTH CAROLINA

**NCDOT**  
 DIVISION OF HIGHWAYS  
 LENOIR COUNTY  
 PROJECT 3460LLI (R-2719A)  
 CRESCENT ROAD  
 IN KINSTON FROM  
 US 70 TO US 388

SCALE: 1" = 100' HORIZ.

SCALE: 1" = 100' HORIZ.

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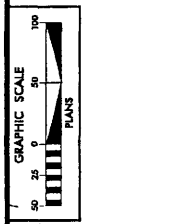
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SCALE: 1" = 100' HORIZ.

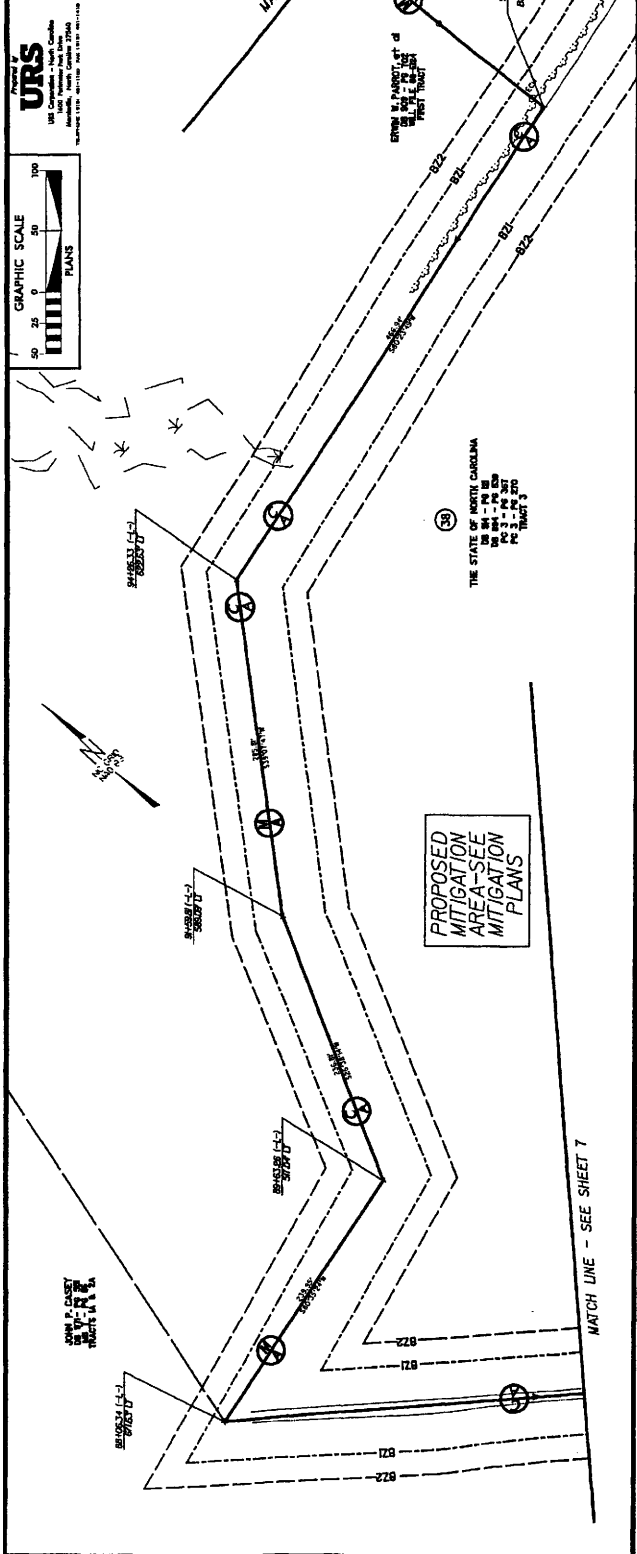


PROJECT REFERENCE NO. R-2719A  
 SHEET NO. 7A  
 HYDRAULICS  
 PRELIMINARY PLANS  
 DO NOT USE FOR CONSTRUCTION

URS  
 UNITED STATES OF AMERICA  
 1000 PLYMOUTH STREET, SUITE 200  
 RALEIGH, NC 27601  
 PHONE: 919.489.4000 FAX: 919.489.4001



Buffer Drawing  
 Sheet 16 of 31  
 ENGLISH



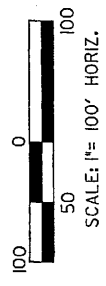
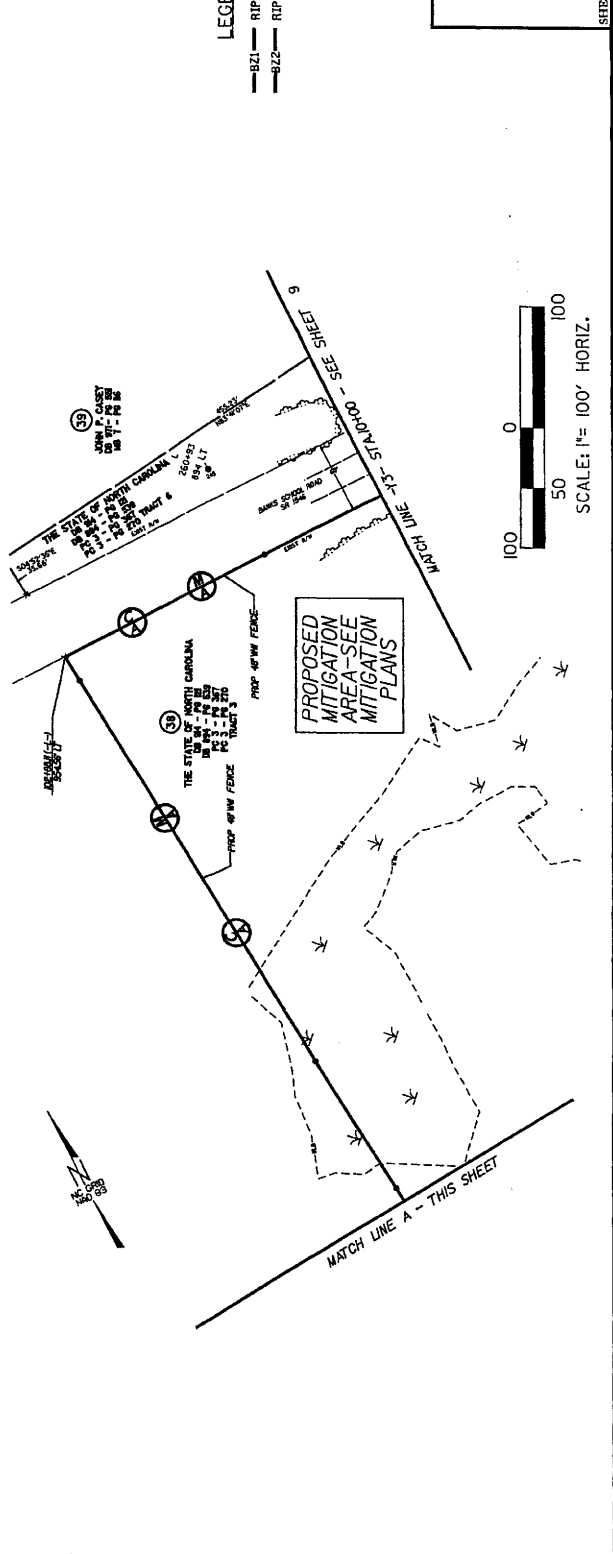
355

LEGEND

- BZ1— RIPARIAN BUFFER ZONE 1 (30')
- BZ2— RIPARIAN BUFFER ZONE 2 (20')

**NCDOT**  
 DIVISION OF HIGHWAYS  
 LENOIR COUNTY  
 PROJECT: 46011 (R-2719A)  
 CRESCENT ROAD  
 IN KINSTON FROM  
 US 70 TO US 258

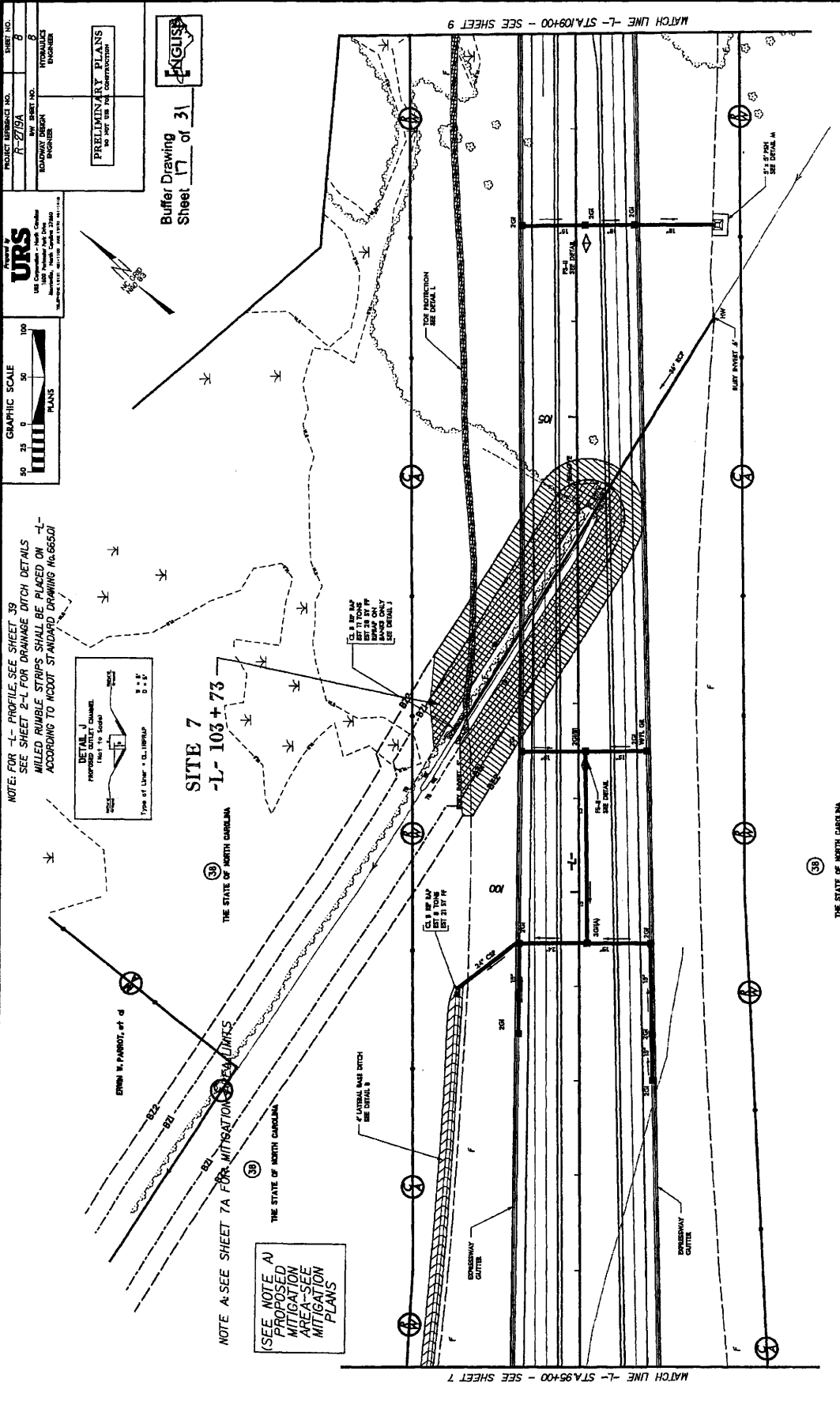
SHEET OF 9/21/07



SCALE: 1" = 100' HORIZ.

MATCH LINE -L- STA.109+00 - SEE SHEET 9

MATCH LINE -L- STA.95+00 - SEE SHEET 7

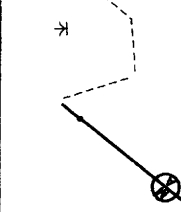


PROJECT REFERENCE NO. **R-279A**  
 SHEET NO. **8**  
 NEW SHEET NO. **8**  
 ROADWAY DESIGN ENGINEER  
 HYDRAULIC ENGINEER

**URS**  
 PRELIMINARY PLANS  
 DO NOT USE FOR CONSTRUCTION

GRAPHIC SCALE  
 100  
 50  
 0  
 PLANS

NOTE: FOR -L- PROFILE, SEE SHEET 39  
 SEE SHEET 2-L FOR DRAINAGE DITCH DETAILS  
 MILLED RUNBLE STRIPS SHALL BE PLACED ON -L-  
 ACCORDING TO ADOPT STANDARD DRAWING No.685047



Buffer Drawing  
 Sheet **17** of **31**

DATE: 6/14/08 - PARCEL 36; ELIMINATED TEMPORARY DRAINAGE EASMENT FOR EROSION CONTROL  
 DATE: 2/14/07 - PARCEL 36; ADDED NOTE FOR MITIGATION AREA (REFERENCE TO SHEET 7A) AND REDUCED LIMITS OF TOP AND DESIGN SHOWN ON THIS SHEET  
 EROSION CONTROL

**NCDOT**  
 DIVISION OF HIGHWAYS  
 LENOIR COUNTY  
 PROJECT: 346011 (R-2719A)  
 CRESCENT ROAD  
 IN KINSTON FROM  
 US 70 TO US 258

**LEGEND**

- 821 RIPARIAN BUFFER ZONE 1 (30')
- 822 RIPARIAN BUFFER ZONE 2 (20')
- MITIGABLE IMPACTS ZONE 1
- MITIGABLE IMPACTS ZONE 2

**PLAN VIEW  
 SITE 7**

SCALE: 1" = 100' HORIZ.

100  
 50  
 0  
 100

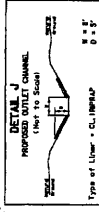
97 21' 07" STREET OF

PROJECT REFERENCE NO. R-278A  
 SHEET NO. 8  
 CIVIL ENGINEER  
 LAYOUT DESIGN  
 ENGINEER

**URS**  
 1000 Peachtree Street, N.E.  
 Atlanta, Georgia 30309  
 PHONE: 404.875.4000  
 FAX: 404.875.4001  
 WWW.URS.COM



NOTE: FOR -L- PROFILE, SEE SHEET 39  
 SEE SHEET 2-L FOR DRAINAGE DITCH DETAILS  
 MILLED RUMBLE STRIPS SHALL BE PLACED ON -L-  
 ACCORDING TO ACCOY STANDARD DRAWING No. 65501



PRELIMINARY PLANS  
 DO NOT USE FOR CONSTRUCTION

Buffer Drawing  
 Sheet 18 of 31

ENGLISH

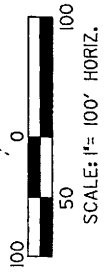
SITE 7  
 -L- 103+73

NOTE A-SEE SHEET 7A FOR MITIGATION LIMITS  
 (SEE NOTE A)  
 PROPOSED  
 MITIGATION  
 AREA-SEE  
 MITIGATION  
 PLANS

NCDOT  
 DIVISION OF HIGHWAYS  
 LENOIR COUNTY  
 PROJECT: 44011 (R-278A)  
 CRESCENT ROAD  
 IN KINSTON FROM  
 US 70 TO US 268

LEGEND  
 -B21- RIPARIAN BUFFER ZONE 1 (30')  
 -B22- RIPARIAN BUFFER ZONE 2 (20')  
 MITIGABLE IMPACTS  
 ZONE 1  
 MITIGABLE IMPACTS  
 ZONE 2

PLAN VIEW  
 SITE 7



REVISIONS  
 DATE: 6/14/06 - PACEL 38: ELIMINATED TEMPORARY DRAINAGE EASEMENT FOR EROSION CONTROL  
 DATE: 2/14/07 - PACEL 38: ADDED NOTE FOR MITIGATION AREA, PRESENCE TO SHEET 7A, AND REDUCED LIMITS OF TOPO AND DESIGN SHOWN ON THIS SHEET  
 DATE: 2/21/07 - PACEL 38: ADDED NOTE FOR MITIGATION AREA, PRESENCE TO SHEET 7A, AND REDUCED LIMITS OF TOPO AND DESIGN SHOWN ON THIS SHEET  
 DATE: 2/21/07 - PACEL 38: ELIMINATED LABEL FOR EROSION CONTROL DEVICE  
 DATE: 2/21/07 - PACEL 38: ADDED NOTE FOR MITIGATION AREA, PRESENCE TO SHEET 7A, AND REDUCED LIMITS OF TOPO AND DESIGN SHOWN ON THIS SHEET

MATCH LINE -L- STA. 09+00 - SEE SHEET 9

MATCH LINE -L- STA. 95+00 - SEE SHEET 7

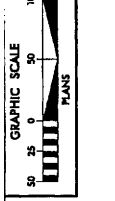
97/31/07  
 SHEET OF



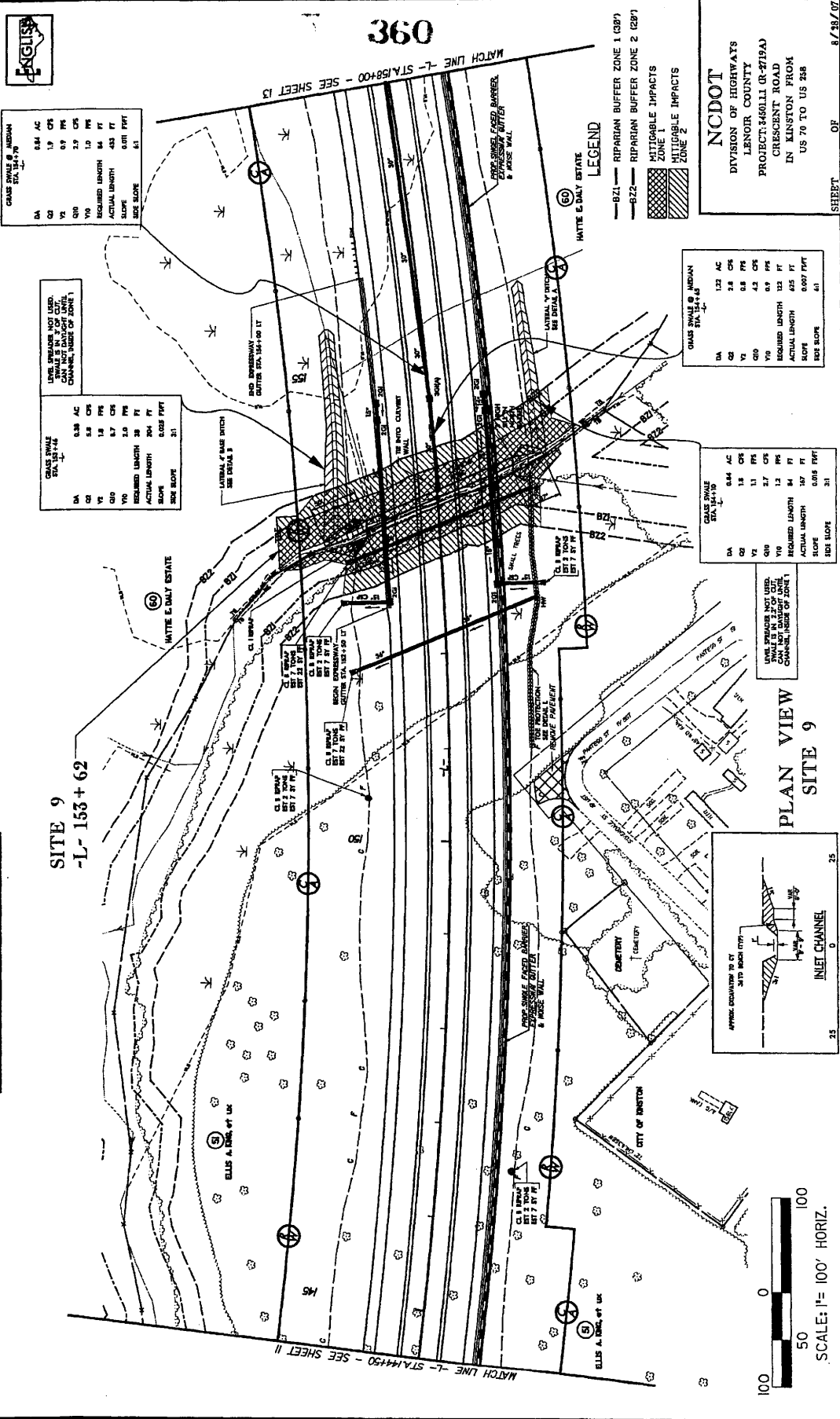
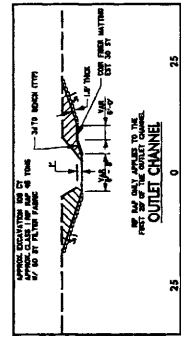


PROJECT LICENSE NO. **A-215A**  
 SHEET NO. **12**  
 ROADWAY DISTRICT **12**  
 DRAWN BY **W. H. HARRIS**  
 CHECKED BY **W. H. HARRIS**  
**Buffer Drawing**  
**Sheet 1 of 3**  
**PRELIMINARY PLANS**  
 NO. 1017 USE AND CONSTRUCTION

**URS**  
 CONSULTANTS  
 10000 North Central Expressway  
 Suite 1000  
 Dallas, Texas 75243-2098  
 PHONE 972.968.6000  
 FAX 972.968.6001  
 WWW.URS.COM



NOTE: FOR -L- PROFILE SEE SHEET 4  
 SEE SHEET 2-1 FOR DRAINAGE DITCH DETAILS  
 SEE SHEET 2-4 FOR CULVERT CHANNEL DETAILS  
 MILLED RUMBLE STRIPS SHALL BE PLACED ON -L-  
 ACCORDING TO NCDOT STANDARD DRAWING No.66501



SHEET OF 8/38/07

NCDOT  
 DIVISION OF HIGHWAYS  
 LENOIR COUNTY  
 PROJECT: 14601(R-2719A)  
 CHESTNUT ROAD  
 IN KINSTON FROM  
 US 70 TO US 258

PLAN VIEW  
 SITE 9

9/17/97

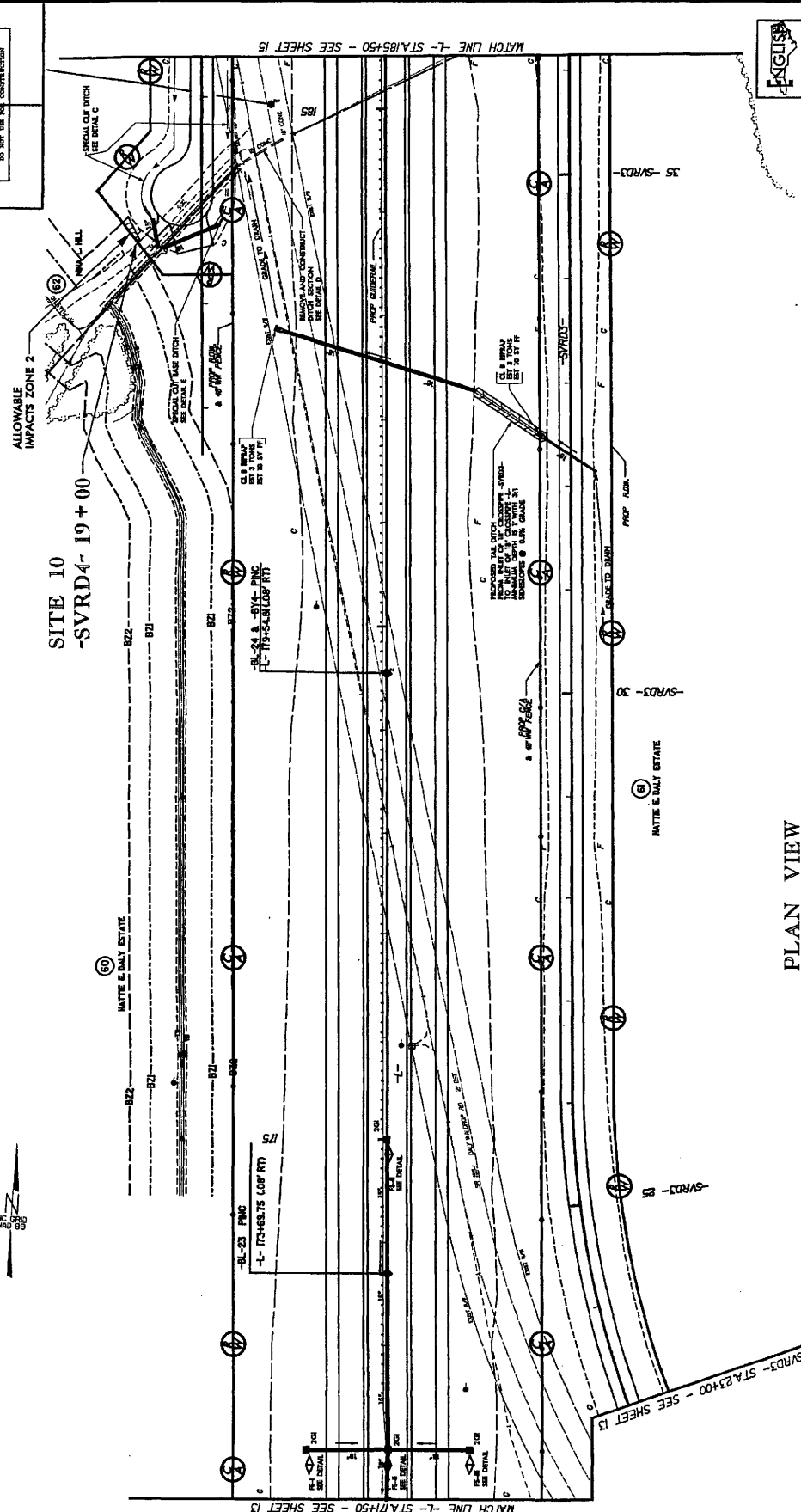


PROJECT REFERENCE NO. R-2719A  
 SHEET NO. 14  
 ROADWAY DESIGN  
 PRELIMINARY PLANS  
 Buffer Drawing 31  
 SHEET 23 of 31  
 DO NOT USE FOR CONSTRUCTION

**URS**  
 United States  
 CONSULTING ENGINEERS  
 1000 Pennsylvania Ave. N.W.  
 Washington, D.C. 20004-2842  
 PHONE: (202) 639-3000 FAX: (202) 639-3001



NOTE: FOR -L- PROFILE, SEE SHEET 42  
 FOR -SVRD3- PROFILE, SEE SHEET 63 & 64  
 FOR -SVRD4- PROFILE, SEE SHEET 65  
 ALL SHOWN PROFILES SHALL BE PLACED ON -L-  
 ACCORDING TO MODOT STANDARD DRAWING 60.6550.1  
 SEE SHEET 2-L FOR DRAINAGE DITCH DETAILS

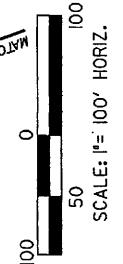


**NCDOT**  
 DIVISION OF HIGHWAYS  
 LENOIR COUNTY  
 PROJECT: 46011 (R-2719A)  
 CRESCENT ROAD  
 IN KINSTON FROM  
 US 70 TO US 248

**LEGEND**

- B21 RIPARIAN BUFFER ZONE 1 (38')
- B22 RIPARIAN BUFFER ZONE 2 (28')
- ALLOWABLE IMPACTS ZONE 2

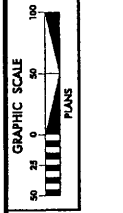
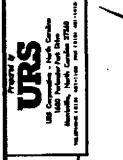
PLAN VIEW  
 SITE 10







PROJECT REFERENCE NO. R-2719A  
 SHEET NO. 2  
 HYDRAULICS ENGINEER  
 BUFFER DRAWING  
 SHEET 25 OF 31  
 PRELIMINARY PLANS  
 DO NOT USE FOR CONSTRUCTION



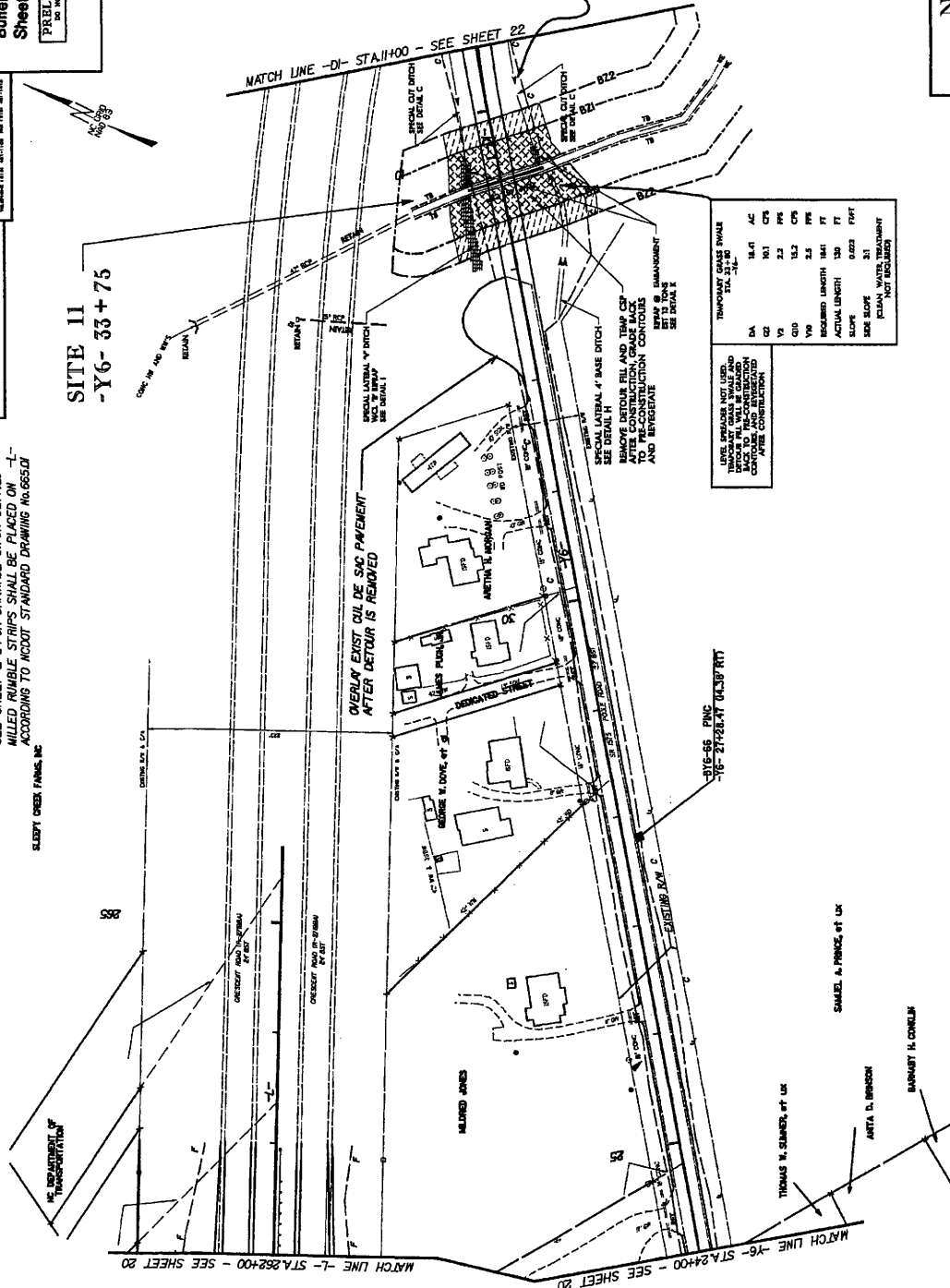
NOTE: FOR -L- PROFILE SEE SHEET 45  
 FOR -Y6- PROFILE SEE SHEET 70  
 FOR -D1- & -D2- PROFILE SEE SHEET 71  
 SEE SHEET E-L FOR DRAINAGE DITCH DETAILS  
 MILLED RUMBLE STRIPS SHALL BE PLACED ON -L-  
 ACCORDING TO AICDOT STANDARD DRAWING No.66531  
 SLEEPY CREEK PAVING, INC.



LEVEL SPREADER NOT USED, DETOUR FILL SHALL BE MAINTAINED THROUGHOUT AND RESTORED TO ORIGINAL GRADE AFTER CONSTRUCTION	TEMPORARY GRASS SWALE
DA	0.24
CA	0.5
CS	0.9
CF	0.7
CP	1.0
PF	2.0
FF	4.1
ACTUAL LENGTH	207
REQUIRED LENGTH	24
ACTUAL SLOPE	0.005
REQUIRED SLOPE	0.005

364

SITE II  
 -Y6- 33+75

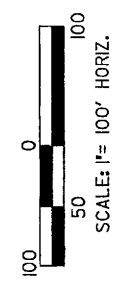


LEVEL SPREADER NOT USED, DETOUR FILL SHALL BE MAINTAINED THROUGHOUT AND RESTORED TO ORIGINAL GRADE AFTER CONSTRUCTION	TEMPORARY GRASS SWALE
DA	18.41
CA	10.1
CS	2.3
CF	13.2
CP	2.3
PF	184
FF	130
ACTUAL LENGTH	130
REQUIRED LENGTH	0.223
ACTUAL SLOPE	0.023
REQUIRED SLOPE	0.023

NCDOT  
 DIVISION OF HIGHWAYS  
 LENOIR COUNTY  
 PROJECT: 340L11 (K-2719A)  
 IN: CRESCENT ROAD  
 FROM: US 70 TO US 268

LEGEND  
 -BZ1- RIPARIAN BUFFER ZONE 1 (30')  
 -BZ2- RIPARIAN BUFFER ZONE 2 (20')  
 ALLOWABLE IMPACTS ZONE 1  
 ALLOWABLE IMPACTS ZONE 2

PLAN VIEW  
 SITE II



8/28/07  
 SHEET OF

PROJECT REFERENCE NO. R-2719A  
 SHEET NO. 2  
 HYDRAULICS ENGINEER

PRELIMINARY PLANS  
 DO NOT USE FOR CONSTRUCTION



Buffer Drawing  
 Sheet 26 of 31

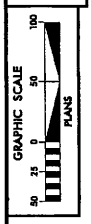
LEVEL SPREADS NOT USED BEFORE FILL WALL IS CALLED OUT FOR CONSTRUCTION AFTER CONSTRUCTION	TRANSVERSE GRADE WALL
DA	0.24
DB	0.5
DC	0.9
DD	0.7
DE	1.0
DF	2.4
DG	2.07
DH	0.06
DI	4.0

365

NC DOT  
 DIVISION OF HIGHWAYS  
 LENOIR COUNTY  
 PROJECT 3460111 (R-2719A)  
 CRESCENT ROAD  
 IN KINSTON FROM  
 US 70 TO US 258

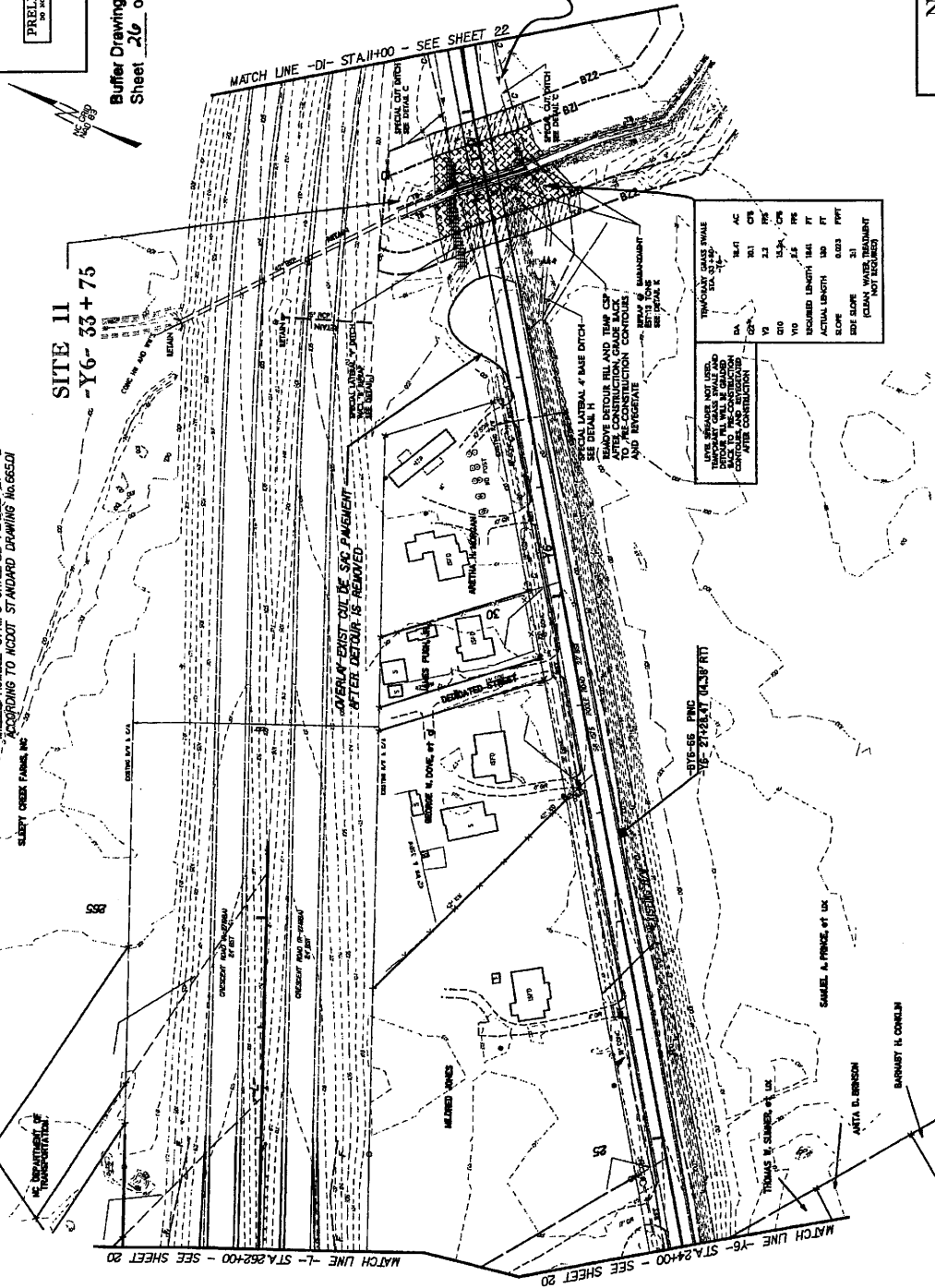
SHEET OF 87/29/07

URS  
 CONSULTING ENGINEERS  
 10000 W. HAYWOOD AVE., SUITE 100  
 RALEIGH, NC 27615-4128



SITE II  
 -Y6- 33+75

NOTE: FOR -L- PROFILE, SEE SHEET 45  
 FOR -Y6- PROFILE, SEE SHEET 70  
 FOR -DI- & -DE- PROFILE, SEE SHEET 71  
 SEE SHEET 2-1 FOR DRAINAGE DITCH DETAILS  
 MILLED RUMBLE STRIPS SHALL BE PLACED ON  
 ACCORDING TO NC DOT STANDARD DRAWING No. 665D

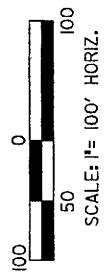


LEVEL SPREADS NOT USED BEFORE FILL WALL IS CALLED OUT FOR CONSTRUCTION AFTER CONSTRUCTION	TRANSVERSE GRADE WALL
DA	18.41
DB	10.1
DC	2.3
DD	13.3
DE	2.5
DF	1.0
DG	0.03
DH	3.1
DI	0.03

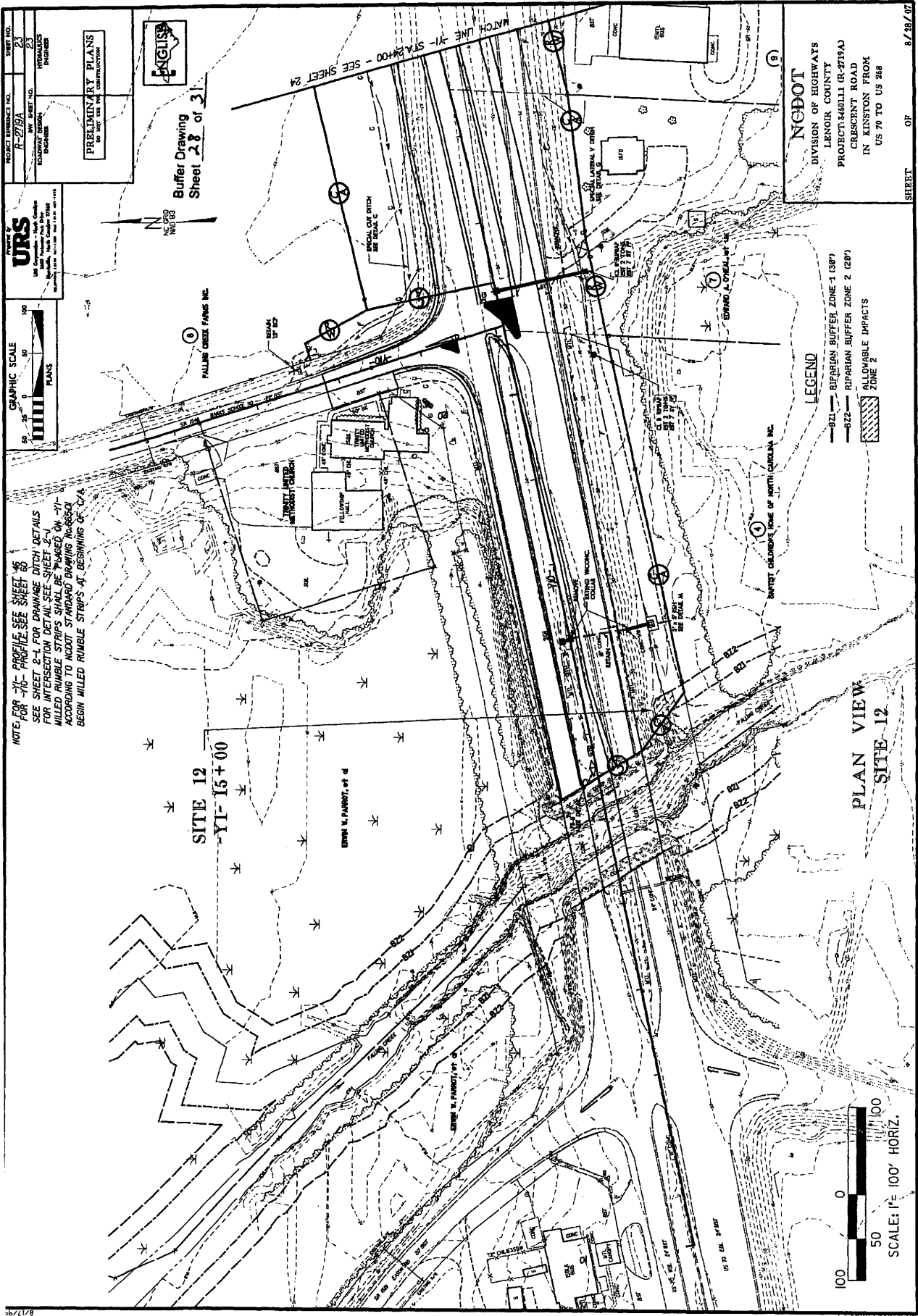
LEGEND

- 821- RIPARIAN BUFFER ZONE 1 (327)
- 822- RIPARIAN BUFFER ZONE 2 (287)
- ALLOWABLE IMPACTS ZONE 1
- ALLOWABLE IMPACTS ZONE 2

PLAN VIEW  
 SITE II







NOTE: FOR -YI- PROFILE SEE SHEET 46  
 SEE SHEET E-1 FOR DRAINAGE DITCH DETAILS  
 FOR INTERSECTION DETAIL SEE SHEET 2-1  
 MILLED RUMBLE STRIPS SHALL BE PLACED ON -YI-  
 ACCORDING TO ADOPT STANDARD DRAWING PRACTICES  
 BEGIN MILLED RUMBLE STRIPS 4' BEGINNING OF C/A

**URSI**  
 URS CONSULTANTS, INC.  
 10000 N. CENTRAL EXPRESSWAY  
 SUITE 200  
 DALLAS, TEXAS 75243  
 (214) 635-1000

**PROJECT REFERENCE NO.**  
 R-2719A

**SHEET NO.**  
 23

**DATE**  
 08/28/07

**DESIGNED BY**  
 HYUNDAE ENGINEER

**CHECKED BY**  
 HYUNDAE ENGINEER

**PRELIMINARY PLANS**  
 DO NOT USE FOR CONSTRUCTION

**ENGLISH**

**Buffer Drawing**  
 Sheet 23 of 3

**GRAPHIC SCALE**  
 0 50 100  
 PLANS

**LEGEND**  
 -B21- RIPARIAN BUFFER ZONE 1 (387)  
 -B22- RIPARIAN BUFFER ZONE 2 (287)  
 ALLOWABLE IMPACTS ZONE 2

**SCALE: 1" = 100' HORIZ.**

**PLAN VIEW**  
**SITE 12**

**NC DOT**  
 DIVISION OF HIGHWAYS  
 LENOIR COUNTY  
 PROJECT #46011 (R-2719A)  
 CRESCENT ROAD  
 IN KINSTON FROM  
 US 70 TO US 268

**SHEET** 23 **OF** 27



PROJECT REFERENCE NO. SHEET NO.  
 7-279A 52  
 ROADWAY DESIGNER: [Name]  
 PRELIMINARY PLANS  
 TO BE USED FOR CONSTRUCTION

Presented by  
**URS**  
 180 Compton Blvd, Columbia  
 Maryland, 21046, USA  
 Telephone: 410.326.7000 Fax: 410.326.7001

GRAPHIC SCALE  
 0 25 50 100  
 FEET  
 PLANS

NOTE: FOR -Y1- PROFILE SEE SHEETS 46 & 47  
 FOR -Y1R/PCA- PROFILE SEE SHEET 56  
 SEE SHEET 2-L FOR DRAINAGE DITCH DETAILS  
 SEE SHEET 2-M FOR CURVE CHANNEL DETAILS  
 MILLED RUMBLE STRIPS SHALL BE PLACED ON -Y1-  
 ACCORDING TO NCDOT STANDARD DRAWING NO.66501  
 FOR CORE DETAIL SEE NCDOT STANDARD DRAWING 225.03



Buffer Drawing  
 Sheet 30 of 31

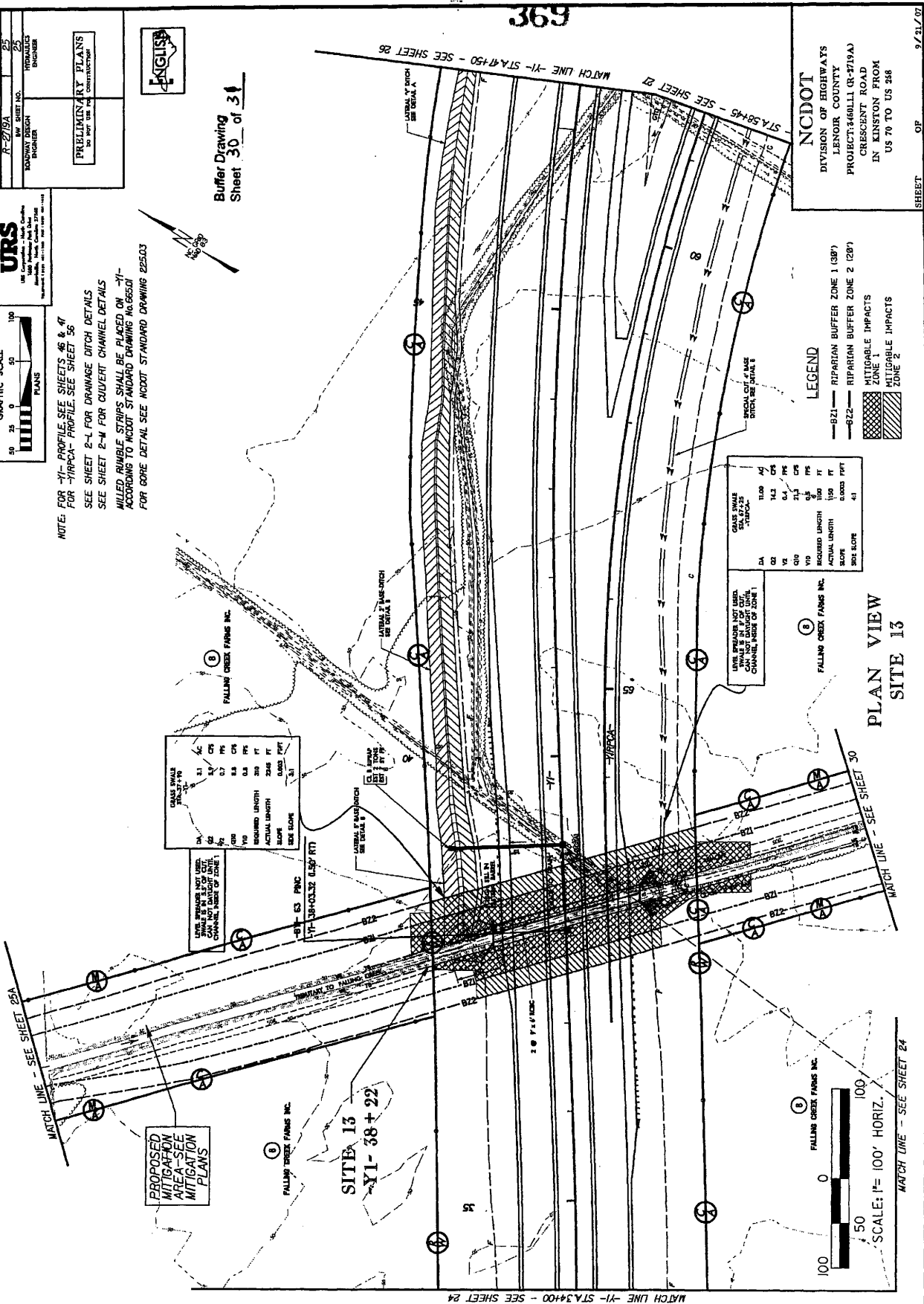


TABLE 1  
 CHANNEL DATA

STATION	CH	CS	PS	FT	PT
31	0.1	0.2	0.3	0.4	0.5
32	0.6	0.7	0.8	0.9	1.0
33	1.1	1.2	1.3	1.4	1.5
34	1.6	1.7	1.8	1.9	2.0
35	2.1	2.2	2.3	2.4	2.5
36	2.6	2.7	2.8	2.9	3.0
37	3.1	3.2	3.3	3.4	3.5
38	3.6	3.7	3.8	3.9	4.0
39	4.1	4.2	4.3	4.4	4.5
40	4.6	4.7	4.8	4.9	5.0
41	5.1	5.2	5.3	5.4	5.5
42	5.6	5.7	5.8	5.9	6.0
43	6.1	6.2	6.3	6.4	6.5
44	6.6	6.7	6.8	6.9	7.0
45	7.1	7.2	7.3	7.4	7.5
46	7.6	7.7	7.8	7.9	8.0
47	8.1	8.2	8.3	8.4	8.5
48	8.6	8.7	8.8	8.9	9.0
49	9.1	9.2	9.3	9.4	9.5
50	9.6	9.7	9.8	9.9	10.0

TABLE 2  
 RIPARIAN BUFFER DATA

STATION	CH	CS	PS	FT	PT
11.00	11.1	11.2	11.3	11.4	11.5
12.00	12.1	12.2	12.3	12.4	12.5
13.00	13.1	13.2	13.3	13.4	13.5
14.00	14.1	14.2	14.3	14.4	14.5
15.00	15.1	15.2	15.3	15.4	15.5
16.00	16.1	16.2	16.3	16.4	16.5
17.00	17.1	17.2	17.3	17.4	17.5
18.00	18.1	18.2	18.3	18.4	18.5
19.00	19.1	19.2	19.3	19.4	19.5
20.00	20.1	20.2	20.3	20.4	20.5
21.00	21.1	21.2	21.3	21.4	21.5
22.00	22.1	22.2	22.3	22.4	22.5
23.00	23.1	23.2	23.3	23.4	23.5
24.00	24.1	24.2	24.3	24.4	24.5
25.00	25.1	25.2	25.3	25.4	25.5
26.00	26.1	26.2	26.3	26.4	26.5
27.00	27.1	27.2	27.3	27.4	27.5
28.00	28.1	28.2	28.3	28.4	28.5
29.00	29.1	29.2	29.3	29.4	29.5
30.00	30.1	30.2	30.3	30.4	30.5
31.00	31.1	31.2	31.3	31.4	31.5
32.00	32.1	32.2	32.3	32.4	32.5
33.00	33.1	33.2	33.3	33.4	33.5
34.00	34.1	34.2	34.3	34.4	34.5
35.00	35.1	35.2	35.3	35.4	35.5
36.00	36.1	36.2	36.3	36.4	36.5
37.00	37.1	37.2	37.3	37.4	37.5
38.00	38.1	38.2	38.3	38.4	38.5
39.00	39.1	39.2	39.3	39.4	39.5
40.00	40.1	40.2	40.3	40.4	40.5
41.00	41.1	41.2	41.3	41.4	41.5
42.00	42.1	42.2	42.3	42.4	42.5
43.00	43.1	43.2	43.3	43.4	43.5
44.00	44.1	44.2	44.3	44.4	44.5
45.00	45.1	45.2	45.3	45.4	45.5
46.00	46.1	46.2	46.3	46.4	46.5
47.00	47.1	47.2	47.3	47.4	47.5
48.00	48.1	48.2	48.3	48.4	48.5
49.00	49.1	49.2	49.3	49.4	49.5
50.00	50.1	50.2	50.3	50.4	50.5

LEGEND  
 -B21- RIPARIAN BUFFER ZONE 1 (38')  
 -B22- RIPARIAN BUFFER ZONE 2 (28')  
 MITIGABLE IMPACTS  
 ZONE 1  
 ZONE 2

TABLE 3  
 RIPARIAN BUFFER DATA

STATION	CH	CS	PS	FT	PT
11.00	11.1	11.2	11.3	11.4	11.5
12.00	12.1	12.2	12.3	12.4	12.5
13.00	13.1	13.2	13.3	13.4	13.5
14.00	14.1	14.2	14.3	14.4	14.5
15.00	15.1	15.2	15.3	15.4	15.5
16.00	16.1	16.2	16.3	16.4	16.5
17.00	17.1	17.2	17.3	17.4	17.5
18.00	18.1	18.2	18.3	18.4	18.5
19.00	19.1	19.2	19.3	19.4	19.5
20.00	20.1	20.2	20.3	20.4	20.5
21.00	21.1	21.2	21.3	21.4	21.5
22.00	22.1	22.2	22.3	22.4	22.5
23.00	23.1	23.2	23.3	23.4	23.5
24.00	24.1	24.2	24.3	24.4	24.5
25.00	25.1	25.2	25.3	25.4	25.5
26.00	26.1	26.2	26.3	26.4	26.5
27.00	27.1	27.2	27.3	27.4	27.5
28.00	28.1	28.2	28.3	28.4	28.5
29.00	29.1	29.2	29.3	29.4	29.5
30.00	30.1	30.2	30.3	30.4	30.5
31.00	31.1	31.2	31.3	31.4	31.5
32.00	32.1	32.2	32.3	32.4	32.5
33.00	33.1	33.2	33.3	33.4	33.5
34.00	34.1	34.2	34.3	34.4	34.5
35.00	35.1	35.2	35.3	35.4	35.5
36.00	36.1	36.2	36.3	36.4	36.5
37.00	37.1	37.2	37.3	37.4	37.5
38.00	38.1	38.2	38.3	38.4	38.5
39.00	39.1	39.2	39.3	39.4	39.5
40.00	40.1	40.2	40.3	40.4	40.5
41.00	41.1	41.2	41.3	41.4	41.5
42.00	42.1	42.2	42.3	42.4	42.5
43.00	43.1	43.2	43.3	43.4	43.5
44.00	44.1	44.2	44.3	44.4	44.5
45.00	45.1	45.2	45.3	45.4	45.5
46.00	46.1	46.2	46.3	46.4	46.5
47.00	47.1	47.2	47.3	47.4	47.5
48.00	48.1	48.2	48.3	48.4	48.5
49.00	49.1	49.2	49.3	49.4	49.5
50.00	50.1	50.2	50.3	50.4	50.5

SCALE: 1" = 100' HORIZ.  
 0 50 100  
 FALLING CREEK FARMS INC.

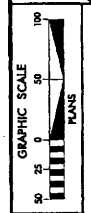
NCDOT  
 DIVISION OF HIGHWAYS  
 LENOIR COUNTY  
 PROJECT: 666011 (R-3719A)  
 CHESTNUT ROAD  
 IN KINSTON FROM  
 US 70 TO US 268

SHEET 30 OF 31

PLAN VIEW  
 SITE 13

PROJECT REFERENCE NO. 7-2719A  
 SHEET NO. 25A  
 ENGINEER  
 ENGINEER  
 PRELIMINARY PLANS  
 FOR THE USE OF CONSTRUCTION

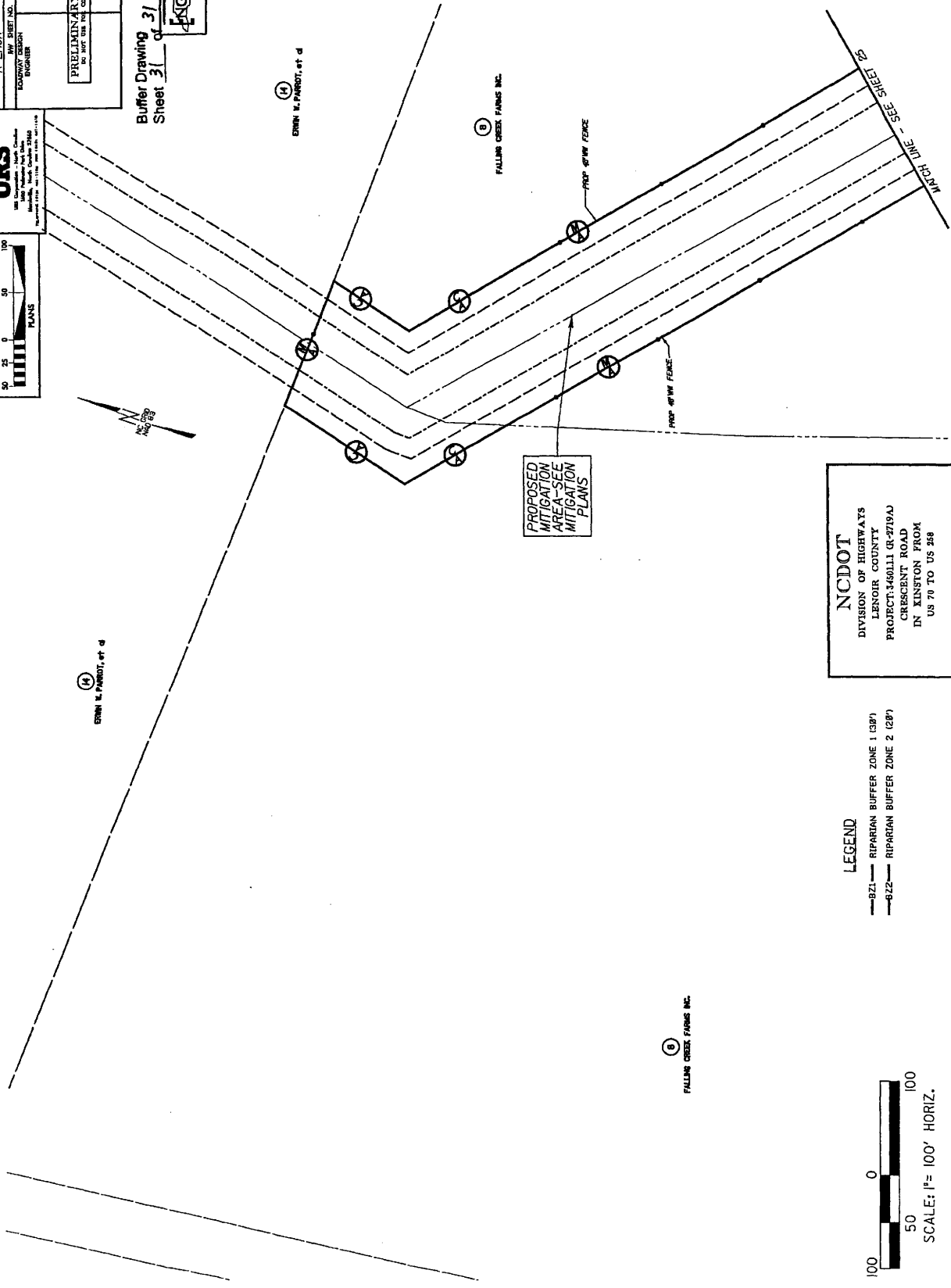
**URS**  
 URS CORPORATION  
 1000 PENNSYLVANIA AVENUE, N.W.  
 WASHINGTON, D.C. 20004-4900  
 PHONE: (202) 775-1000  
 FAX: (202) 775-1001  
 WWW.URS.COM



Buffer Drawing  
 Sheet 31 of 31



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(A) ERIN M. PARROTT, et al

(A) ERIN M. PARROTT, et al

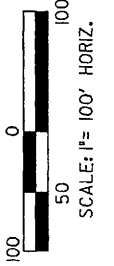
(B) FALLING CREEK FARMS INC.

(B) FALLING CREEK FARMS INC.

PROPOSED  
 MITIGATION  
 AREA - SEE  
 MITIGATION  
 PLANS

**NCDOT**  
 DIVISION OF HIGHWAYS  
 LENOIR COUNTY  
 PROJECT 3460111 (R-2719A)  
 CRESCENT ROAD  
 IN KINSTON FROM  
 US 70 TO US 258

**LEGEND**  
 ---821--- RIPARIAN BUFFER ZONE 1 (25')  
 ---822--- RIPARIAN BUFFER ZONE 2 (25')



SHEET 31 OF 31



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North Carolina  
Environmental Management Commission  
Department of Environment and Natural Resources

**Permit For The Withdrawal And Use Of Water  
In The Central Coastal Plain Capacity Use Area**

In accordance with the provisions of Part 2, Article 21 of Chapter 143, General Statutes of North Carolina as amended, and any other applicable Laws, Rules and Regulations,

**Permission Is Hereby Granted To**

NC Department of Transportation

Project No. R-2719A (Crescent Road in Kinston from US 70 to US 258)

FOR THE

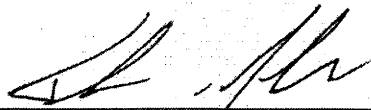
Withdrawal and Use of Water in Lenoir County, North Carolina in accordance with the grantee's application dated November 19, 2008, and any supporting data submitted with the application, all of which are filed with the Department of Environment and Natural Resources and are considered part of this Permit.

This Permit shall be effective from the date of its issuance until January 31, 2014, and shall be subject to the specified conditions and/or limitations contained in Sections I - X of this Permit.

Permit issued this the 30 day of January, 2009.

NORTH CAROLINA ENVIRONMENTAL MANAGEMENT COMMISSION

BY



Thomas A. Reeder  
Director, Division of Water Resources

By Authority of the Secretary of the Department of Environment and Natural Resources

PERMIT #CU4018

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**I. WITHDRAWALS**

**A. USE**

This Permit allows the withdrawal of water for the purpose of dewatering borrow pits to extract material for road construction.

**B. RATES OF WITHDRAWALS**

The maximum quantity of water that may be withdrawn shall not exceed what is established in the Reclamation Plan as specified in NCDOT's CCPCUA Special Provisions document.

**C. SOURCE(S) OF WITHDRAWALS**

Ground Water Source(s): Withdrawals shall be made from sumps in borrow pits in the surficial aquifer.

**D. MONITORING OF WITHDRAWALS**

Withdrawals from each source, whether well or sump, shall be measured by an approved metering device equipped with a totalizing indicator, and having an accuracy within plus or minus five percent.

**II. WATER LEVELS**

**A. MAXIMUM DRAWDOWN LEVELS**

1. Pump intakes for the well(s) shall not be set below the depth specified in the permit application or associated documentation without prior approval of the Division of Water Resources.
2. In the event that data from the permitted wells or other wells within the zone influenced by pumping of the permitted wells indicates a deterioration of quality or quantity in surrounding aquifers or the source aquifer, an alternate maximum pumping level may be established by the Division of Water Resources.

**B. MONITORING OF WATER LEVELS**

1. The pumping water level in each supply well shall be measured once a month:
  - a. by a steel or electric tape from a fixed reference point, or by using the air-line method
  - b. within accuracy limits of plus or minus one percent,
  - c. just prior to shutting off the pump, or after sufficient time of pumping, so that a maximum drawdown may be obtained, and
  - d. during the last planned pumping day of the month, or within the last five days of the month.

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2. The static water level in each supply well shall be measured once a month:
  - a. by a steel or electric tape from a fixed reference point, or by using the air-line method
  - b. within accuracy limits of plus or minus one percent,
  - c. after the pump is shut off for approximately 12 hours, and
  - d. within the last five days of the month.
3. Unused supply wells or other suitable wells that may be available shall be monitored when such monitoring is specified by the Division of Water Resources and when pertinent to observation or evaluation of the effects of withdrawals made under this permit.

### **III. OTHER PROVISIONS**

#### **A. WELL CONSTRUCTION APPROVAL**

A Well Construction Permit shall be required prior to the construction of any well that will be used to withdraw any portion of the water regulated under this Permit. Application for these permits must be submitted to the Washington Regional Office, Division of Water Quality, P.O. Box 2188, Washington, NC 27889.

#### **B. ACCESS TO FACILITIES**

The Environmental Management Commission and employees of the Department of Environment and Natural Resources shall have reasonable access to areas owned and under control of the permittee for observation and inspection of water use and related facilities pertinent to the provisions of this permit and other regulations.

### **IV. REPORTS REQUIRED**

#### **A. WITHDRAWALS**

Monthly reports of daily withdrawal totals from each well or sump shall be furnished to the Division on a quarterly basis, within 30 days after the end of March, June, September and December.

#### **B. WATER LEVELS**

Water level measurements for each supply well shall be measured in accordance with Condition II. B. 1. of this permit and submitted to the Division not later than 30 days after the end of the calendar month in which the measurement was taken.

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**V. MODIFICATION OR REVOCATION**

**A. MODIFICATION**

1. The Permittee must notify the Director of any proposed major changes in usage and apply for a modification of the permit for such changes or for any revisions of the terms of this permit.
2. The Director may modify the terms of the permit, after 60 days written notice to the permittee, if he finds that the terms of the permit and/or the resulting water use are found to be contrary to the purposes of the Water Use Act of 1967 or contrary to public interest or having an unreasonably adverse effect upon other water uses in the capacity use area. Modifications may include, but are not limited to, requirements for alternate pumping levels or the collection, analysis, and reporting of ground or surface water quality samples.

**B. REVOCATION**

The Director may revoke the permit if he finds that:

1. the Permittee has violated the terms of the permit; or
2. the terms of the Permit and/or the resulting water use are contrary to the purpose of the Water Use Act of 1967 or contrary to the public interest or having an unreasonably adverse effect upon other water uses in the capacity use area and cannot be cured by modification; or
3. the Permittee made false or fraudulent statements in the application for the water use permit; or
4. water withdrawn under the terms of the permit is used for purposes other than those set forth in the permit.

**VI. CONSTRUCTION OF PERMIT**

- A. The terms and conditions shall not be construed to relieve the Permittee of any legal obligation or liability, which it owes or may incur to third parties as the result of the conduct of its operations in conformity with this Permit.
- B. When under the terms hereof, any provision of this Permit requires approval of the Department or becomes effective at the discretion of the Department, the notice of approval or the exercise of such discretion shall be evidenced by written instrument issued by the Department.
- C. The terms and conditions of this Permit shall not be construed as a limitation of the powers, duties, and authority vested in the Environmental Management Commission or any other State, Federal, or local agency, or any applicable laws hereafter enacted.

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**VII. ADDITIONAL CONDITIONS**

- A. This Permit shall be subject to any limitations or conditions in other State permits, including but not limited to permits required pursuant to North Carolina General Statutes §143-215.1.
- B. Issuance of this Permit shall have no bearing on subsequent State decision(s) regarding any other water use or other permit application(s) submitted or which may be submitted by the Permittee, its successors or assigns.
- C. Compliance with the terms and conditions in this permit does not relieve the permittee of compliance with any provision, now in force or hereafter enacted or promulgated, of the Water Use Act of 1967, the regulations promulgated thereunder, or any other provision of State law.

**VIII. PENALTIES**

Violations of the terms and conditions of this Permit are subject to penalties as set forth in North Carolina General Statutes §143-215.17.

**IX. PERMIT NONTRANSFERABLE**

Water Use Permits shall not be transferred except with approval of the Environmental Management Commission.

**X. RENEWAL OF PERMIT**

The Permittee, at least three (3) months prior to the expiration of this permit, shall request its extension. Upon receipt of the request, the Commission will review the adequacy of the facilities described therein, and if warranted, will extend the permit for such period of time and under such conditions and limitations as it may deem appropriate.

**Report of Water Withdrawals  
from Each Source**

**North Carolina Department of Environment and Natural Resources**

Mail to: Division of Water Resources - NC DENR, Attention: Capacity Use Administration  
1611 Mail Service Center

Raleigh, North Carolina 27699-1611

Facility NCDOT - (R-2719A) Permit # CU4018

For month of \_\_\_\_\_ Year \_\_\_\_\_

CHECK BOX IF NO USE THIS MONTH

Sheet # \_\_\_\_\_ of \_\_\_\_\_

Well/Sump_ID →	meter readings ↓	gallons per day	meter readings ↓	gallons per day	meter readings ↓	gallons per day	Total Withdrawn
Beginning reading →							
Day 1							
Day 2							
Day 3							
Day 4							
Day 5							
Day 6							
Day 7							
Day 8							
Day 9							
Day 10							
Day 11							
Day 12							
Day 13							
Day 14							
Day 15							
Day 16							
Day 17							
Day 18							
Day 19							
Day 20							
Day 21							
Day 22							
Day 23							
Day 24							
Day 25							
Day 26							
Day 27							
Day 28							
Day 29							
Day 30							
Day 31							376