

**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

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.**

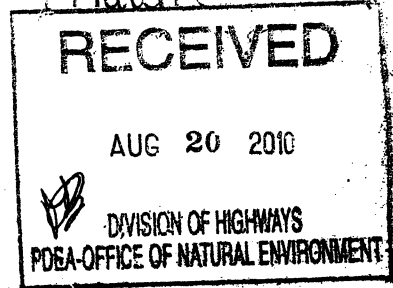


REPLY TO  
ATTENTION OF:

DEPARTMENT OF THE ARMY  
WILMINGTON DISTRICT, CORPS OF ENGINEERS  
69 DARLINGTON AVENUE  
WILMINGTON, NORTH CAROLINA 28403-1343

**242**

August 19, 2010



Regulatory Division

Action ID No: 2009-01927; Transportation Improvements Project R-2612A

Dr. Gregory J. Thorpe, PhD, Manager  
Project Development and Environmental Analysis Branch  
N.C. Department of Transportation  
Division of Highways  
1598 Mail Service Center  
Raleigh, North Carolina 27699-1598

Dear Dr. Thorpe:

Enclosed is a Department of the Army permit to authorize the proposed permanent placement of fill material into 1,487 linear feet of jurisdictional stream channel and 0.47 acre of adjacent riparian wetlands. These impacts are associated with the intersection improvement project identified as R-2612A. The project site is located at the SR 3389 (Woody Mill Road) and US 421 intersection, in and near Pleasant Garden, Guilford County, North Carolina and extends from the existing intersection northwestward approximately 5,500 feet to Minden Road (SR 3413), southeast approximately 2,700 feet along U.S. 421, northeast approximately 2,200 feet along Woody Mill Road (SR 3330) and south approximately 1,800 feet along Company Mill Road (SR 3381).

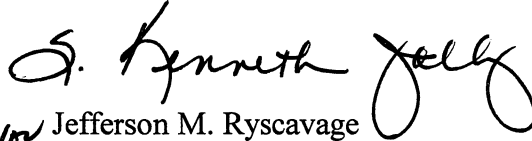
Any deviation in the authorized work will likely require modification of this permit. If a change in the authorized work is necessary, you should promptly submit revised plans to the Corps showing the proposed changes. You may not undertake the proposed changes until the Corps notifies you that your permit has been modified.

Carefully read your permit. The general and special conditions are important. Your failure to comply with these conditions could result in a violation of Federal law. Certain significant conditions require that:

- a. You must complete construction before December 31, 2015.
- b. You must allow representatives from this office to make periodic visits to your worksite as deemed necessary to assure compliance with permit plans and conditions.
- c. You must notify this office in advance as to when you intend to commence and complete work.

You should address all questions regarding this authorization to Andrew Williams, Raleigh Regulatory Field Office, at telephone (919) 554-4884, extension 26.

Sincerely,



*JMR* Jefferson M. Ryscavage  
Colonel, U.S. Army  
District Commander

Enclosures

Copy furnished (with enclosures):

Chief, Source Data Unit  
NOAA/National Ocean Service  
ATTN: Sharon Tear N/CS261  
1315 East-West Hwy., Rm 7316  
Silver Spring, Maryland 20910-3282

Copies furnished (with special conditions and plans):

Mr. Ronald J. Mikulak, Chief  
Wetlands Regulatory Section  
61 Forsyth Street  
Atlanta, Georgia 30303

Mr. Pete Benjamin  
U.S. Fish and Wildlife Service  
Fish and Wildlife Enhancement  
Post Office Box 33726  
Raleigh, North Carolina 27636-3726

Mr. Ron Sechler  
National Marine Fisheries Service  
Pivers Island  
Beaufort, North Carolina 28516

Mr. Doug Huggett  
Division of Coastal Management  
N.C. Department of Environment  
and Natural Resources  
400 Commerce Avenue  
Morehead City, North Carolina 28557

Mr. David Rackley  
National Marine Fisheries Service  
219 Fort Johnson Road  
Charleston, South Carolina 29412-9110

## DEPARTMENT OF THE ARMY PERMIT

Permittee: NORTH CAROLINA DEPARTMENT OF TRANSPORTATION

Permit No: SAW-2009-01927

Issuing Office: USAED, WILMINGTON

**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 the office acting under the authority of the commanding officer.

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

**Project Description:** The project, identified as R-2612A, consists of removing the Woody Mill Road and Company Road at-grade intersections with US 421. The project also consists of the construction of a bridge with access to US 421 and the realignment of the Woody Mill Road interchange with Company Mill Road. It begins immediately west of the intersection of SR 3413 (Minden Road) and US 421 in Guilford County and proceeds approximately 0.93 mile east, to east of SR 3394 (Company Mill Road). The southern terminus of the project will tie into existing SR 3394 (Company Mill Road) and the northern terminus will tie into SR 3389 (Woody Mill Road) immediately north of the intersection with SR 3549 (Liberty Road). The roadway cross-section will be a three-lane, two way shoulder facility that tapers back to the existing two-lane, two-way shoulder facility outside of the ramp junctions, north and south of US 421. The R-2612A interchange will be constructed as a modified diamond design. Total permanent impacts for the construction of this project are 1,487 linear feet of stream channel and 0.47 acre of riparian wetlands. The applicant will mitigate for unavoidable impacts to streams by payment into the North Carolina Ecosystem Enhancement Program in the amount necessary to perform the restoration of 2,222 linear feet of warm water streams and 0.94 acre of riparian wetland within the in the Cape Fear River Basin (HUC 03030002).

**Project Location:** The project, identified as R-2612A, is located at the SR 3389 (Woody Mill Road) and US 421 intersection, in and near Pleasant Garden, Guilford County, North Carolina. The project extends from the existing intersection northwestward approximately 5,500 feet to Minden Road (SR 3413), southeast approximately 2,700 feet along U.S. 421, northeast approximately 2,200 feet along Woody Mill Road (SR 3330) and south approximately 1,800 feet along Company Mill Road (SR 3381). Coordinates (in decimal degrees) for the site are 35.9640° N, -79.7049° W (NAD83/WGS84). The site contains five (5) unnamed tributaries to Big Alamance Creek and five (5) adjacent wetland areas, in the Cape Fear River Basin (8-Digit Cataloging Unit 03030002). Big Alamance Creek flows to the Haw River which flows to Cape Fear River, a navigable water of the United States.

Permit Conditions:

**General Conditions:**

1. The time Limit for completing the work authorized ends on December 31, 2015. 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 Conditions 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 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.

e. Damage claims associated with any future modification, suspension, or revocation of this permit.

4. Reliance on Applicant's Data: The determination of this office that issuance of this permit is not contrary to the public interest was mad in reliance on the information you provided.

5. Reevaluation of Permit Decision. This office may reevaluate its decision on this permit at any time the circumstances warrant. Circumstances that could require a reevaluation include, but are not limited to, the following:

- a. You fail to comply with the terms and conditions of this permit.
- b. The information provided by you in support of your permit application proves to have been false, incomplete, or inaccurate (see 4 above).
- c. Significant new information surfaces which this office did not consider in reaching the original public interest decision.

Such a reevaluation may result in a determination that it is appropriate to use the suspension, modification, and revocation procedures contained in 33 CFR 325.7 or enforcement procedures such as those contained in 33CFR 326.4 and 326.5. The referenced enforcement procedures provide for the issuance of an administrative order requiring you to comply with the terms and conditions of your permit and for the initiation of legal action where appropriate. You will be required to pay for any corrective measures ordered by this office, and if you fail to comply with such directive, this office may in certain situations (such as those specified in 33 CFR 209.170) accomplish the corrective measure by contract or otherwise and bill you for the cost.

6. Extensions. General condition 1 establishes a time limit for the completion of the activity authorized by this permit. Unless there are circumstances requiring either a prompt completion of the authorized activity or a reevaluation of the public interest decision, the Corps will normally give favorable consideration to a request for an extension of this time limit.

Your signature below, as permittee, indicates that you accept and agree to comply with the terms and conditions of this permit.

E. L. Furr for Gregory J. Thorne, PhD  
(PERMITTEE) NORTH CAROLINA DEPARTMENT OF  
TRANSPORTATION

8.12.10  
(DATE)

This permit becomes effective when the Federal official, designated to act for the Secretary of the Army, has signed below.

S. Kenneth Kelly  
(DISTRICT ENGINEER) JEFFERSON M. RYSCAVAGE, COLONEL

8-18-10  
(DATE)

When the structures or work authorized by this permit are still in existence at the time the property is transferred, the terms and conditions of this permit will continue to be binding on the new owner(s) of the property. To validate the transfer of this permit and the associated liabilities associated with compliance with its terms and conditions, have the transferee sign and date below.

\_\_\_\_\_  
(Transferee)

\_\_\_\_\_  
(Date)

**Special Conditions****Action ID. SAW-2009-01927; NC Department of Transportation/TIP R-2612A****WORK LIMITS**

- a) All work authorized by this permit must be performed in strict compliance with the attached plans, which are a part of this permit. Any modification to these plans must be approved by the US Army Corps of Engineers (USACE) prior to implementation.
- b) 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. This permit does not authorize temporary placement or double handling of excavated or fill material within waters or wetlands outside the permitted area. This prohibition applies to all borrow and fill activities connected with this project.
- c) 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 waters or wetlands or to reduce the reach of waters or wetlands.
- d) Temporary fills must be removed in their entirety and the affected areas returned to pre-construction elevations. The affected areas must be revegetated, as appropriate.

**RELATED LAWS**

- e) 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. 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) 807-6300, or (800) 858-0368 and provisions of the North Carolina Oil Pollution and Hazardous Substances Control Act will be followed.

**PROJECT MAINTENANCE**

- f) The permittee shall advise the Corps in writing prior to beginning the work authorized by this permit and again upon completion of the work authorized by this permit.
- g) 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.
- h) 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. A copy of this permit, including all conditions, shall be available at the project site during construction and maintenance of this project.



**Special Conditions****Action ID. SAW-2009-01927; NC Department of Transportation/TIP R-2612A**

- i) The permittee shall employ all sedimentation and erosion control measures necessary to prevent an increase in sedimentation or turbidity within waters and wetlands outside the permit area. This shall include, but is not limited to, the immediate installation of silt fencing or similar appropriate devices around all areas subject to soil disturbance or the movement of earthen fill, and the immediate stabilization of all disturbed areas. 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).
- j) The permittee, upon receipt of a notice of revocation of this permit or upon its expiration before completion of the work will, without expense to the United States and in such time and manner as the Secretary of the Army or his authorized representative may direct, restore the water or wetland to its pre-project condition.

**ENFORCEMENT**

- k) Violations of these conditions or violations of Section 404 of the Clean Water Act or Section 10 of the Rivers and Harbors Act must be reported in writing to the Wilmington District U.S. Army Corps of Engineers within 24 hours of the permittee's discovery of the violation.

**CULVERT**

- l) All authorized culverts will be installed to allow the passage of low stream flows and the continued movement of fish and other aquatic life as well as to prevent headcutting of the streambed. For all box culverts and for pipes greater than 48 inches in diameter, the bottom of the pipe will be buried at least one foot below the bed of the stream unless burial would be impractical and the Corps of Engineers has waived this requirement. For culverts 48 inches in diameter or smaller, the bottom of the pipe must be buried below the bed of the stream to a depth equal to or greater than 20 percent of the diameter of the culvert. Design and placement of culverts and other structures including temporary erosion control measures shall not be conducted in a manner that may result in disequilibrium of wetlands or streambeds or banks, adjacent to, upstream or downstream of the structures. In order to allow for the continued movement of bed load and aquatic organisms, existing stream channel widths and depths will be maintained at the inlet and outlet ends of culverts. Riprap armoring of streams at culvert inlets and outlets shall be minimized above the ordinary high water elevation in favor of bioengineering techniques such as bank sloping, erosion control matting and revegetation with deep-rooted, woody plants.

**Special Conditions****Action ID. SAW-2009-01927; NC Department of Transportation/TIP R-2612A****PRECONSTRUCTION MEETING**

- m) The permittee shall schedule a preconstruction meeting between its representatives, the contractor's representatives, and the Corps of Engineers, Raleigh Regulatory Field Office, 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 USACE, Raleigh Regulatory Field Office, 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 USACE 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 USACE 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 USACE before approving any borrow or waste sites that are within 400 feet of any streams or wetlands. All jurisdictional wetland lines 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 Condition b) 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 Condition b). All information will be available to the USACE 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.

**Special Conditions****Action ID. SAW-2009-01927; NC Department of Transportation/TIP R-2612A****EEP MITIGATION**

- \* o) NC-EEP STREAM/WETLAND MITIGATION: Compensatory mitigation for the loss of 1,487 linear feet of stream, and 0.47 acre of adjacent wetland, associated with the proposed project, shall be provided by the Ecosystem Enhancement Program (EEP), as outlined in the letter dated August 18, 2009 from William D. Gilmore, EEP Director. Pursuant to the EEP Memorandum of Agreement (MOA) between the State of North Carolina and the US Army Corps of Engineers signed on July 22, 2003, the EEP will provide 2,222 linear feet of warm-water restoration equivalent stream mitigation and 0.94 acre of restoration equivalent riparian wetlands in the Cape Fear River basin (Cataloging Unit 0303002 (Haw River basin) by one year of the date of this permit. The NCDOT shall, within 30 days of the issue date of this permit, certify that sufficient funds have been provided to EEP to complete the required mitigation, pursuant to Paragraph V. of the MOA.

NOTIFICATION OF ADMINISTRATIVE APPEAL OPTIONS AND PROCESS AND  
REQUEST FOR APPEAL

Applicant: North Carolina Department of Transportation	File Number: SAW2009-01927	Date: July 22, 2010
Attached is:	See Section below	
<input checked="" type="checkbox"/> INITIAL PROFFERED PERMIT (Standard Permit or Letter of permission)	A	
<input type="checkbox"/> PROFFERED PERMIT (Standard Permit or Letter of permission)	B	
<input type="checkbox"/> PERMIT DENIAL	C	
<input type="checkbox"/> APPROVED JURISDICTIONAL DETERMINATION	D	
<input type="checkbox"/> PRELIMINARY JURISDICTIONAL DETERMINATION	E	

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

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

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

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

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

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

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

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

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

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

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

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

**POINT OF CONTACT FOR QUESTIONS OR INFORMATION:**

If you have questions regarding this decision and/or the appeal process you may contact:  
 Andrew Williams, Regulatory Project Manager  
 Raleigh Regulatory Field Office  
 U.S. Army Corps of Engineers  
 3331 Heritage Trade Drive, Suite 105  
 Wake Forest, North Carolina 27587

If you only have questions regarding the appeal process you may also contact:  
 Mr. Mike Bell, Administrative Appeal Review Officer  
 CESAD-ET-CO-R  
 U.S. Army Corps of Engineers, South Atlantic Division  
 60 Forsyth Street, Room 9M15  
 Atlanta, Georgia 30303-8801

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

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

**Division Engineer:**  
**Commander**  
**U.S. Army Engineer Division, South Atlantic,**  
**60 Forsyth Street, Room 9M15**  
**Atlanta, Georgia 30303-8801**



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North Carolina Department of Environment and Natural Resources

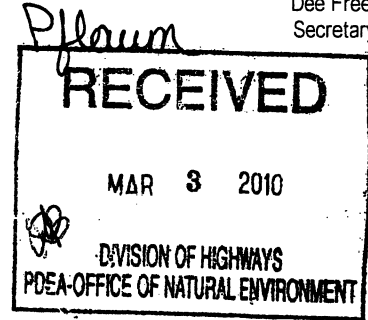
Division of Water Quality  
Coleen H. Sullins  
Director

Beverly Eaves Perdue  
Governor

Dee Freeman  
Secretary

February 25, 2010

Dr. Greg Thorpe, PhD., Manager  
Project Development and Environmental Analysis  
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 with  
ADDITIONAL CONDITIONS for Proposed Interchange additions at SR 3389 (Woody Mill Road in  
Guilford County, Federal Aid Project No. NHF-421 (11), State Project No. 8.149330, TIP R2612A.  
NCDWQ Project No. 20091070.

Dear Dr. Thorpe:

Attached hereto is a copy of Certification No. WQC003818 issued to The North Carolina Department of  
Transportation (NCDOT) dated February 25, 2010

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

Sincerely,

*[Handwritten Signature]*  
for Coleen H. Sullins  
Director

Attachments

- cc: Andy Williams, US Army Corps of Engineers, Raleigh Field Office
- Jerry Parker, Division 7 Environmental Officer
- Chris Militscher, Environmental Protection Agency (electronic copy only)
- Travis Wilson, NC Wildlife Resources Commission
- Beth Harmon, Ecosystem Enhancement Program
- NCDWQ, Wetlands/ 401 Transportation Permitting Unit
- File Copy

Transportation Permitting Unit  
1650 Mail Service Center, Raleigh, North Carolina 27699-1650  
Location: 2321 Crabtree Blvd., 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 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 (NCDWQ) Regulations in 15 NCAC 2H .0500. This certification authorizes the NCDOT to impact 0.47 acres of jurisdictional wetlands and 1487 linear feet of jurisdictional streams in Guilford County. The project shall be constructed pursuant to the application dated received December 1, 2009, with additional information received January 13, 2010, and February 12, 2010. The authorized impacts are as described below:

**Stream Impacts in the Cape Fear 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	145	0	0	0	145	0
2	0	0	88	0	88	0
3	201	0	0	0	201	0
5	0	0	856	0	856	856
6	0	0	88	0	88	0
7	0	0	109	0	109	0
<b>Total</b>	<b>346</b>	<b>0</b>	<b>1141</b>	<b>0</b>	<b>1487</b>	<b>856</b>

**Total Stream Impact for Project: 1487 linear feet**

**Riverine Wetland Impacts in the Cape Fear River Basin**

Site	Fill (ac)	Fill (temporary) (ac)	Excavation (ac)	Mechanized Clearing (ac)	Total Wetland Impact (ac)
1	0.07	0	0	0.01	0.08
3	0.04	0	0	0.01	0.05
4	0.08	0	<0.005	0	0.08
5	0.21	0	0.02	0.03	0.26
<b>Total</b>	<b>0.40</b>	<b>0</b>	<b>0.02</b>	<b>0.05</b>	<b>0.47</b>

**Total Wetland Impact for Project: 0.47 acres.**

The application provides adequate assurance that the discharge of fill material into the waters of the **Cape Fear 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 December 1, 2009, with additional information received January 13, 2010, and February 12, 2010. Should your project change, you are required to notify the NCDWQ 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). Additional buffer impacts may require compensatory mitigation as described in 15A NCAC 02B .0268. 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

water watershed regulation. This certification shall expire on the same day as the expiration date of the corresponding Corps of Engineers Permit.

**Condition(s) of Certification:**

Project Specific Conditions:

1. Modifications to this permit will be subject to Jordan Lake Buffer Rules as described in 15A NCAC 02B .0268 and DWQ's Intermittent Stream Policy effective October 16, 2009.
2. The NCDOT Division Environmental Officer or Environmental Assistant will conduct a pre-construction meeting with all appropriate staff to ensure that the project supervisor and essential staff understand the potential issues with stream and pipe alignment at the permitted site. NCDWQ staff shall be invited to the pre-construction meeting.
- \* 3. Compensatory mitigation for 856 linear feet of impact to streams is required. We understand that you have chosen to perform compensatory mitigation for impacts to streams through the North Carolina Ecosystem Enhancement Program (EEP), and that the EEP has agreed to implement the mitigation for the project. EEP has indicated in a letter dated August 18, 2009 that they will assume responsibility for satisfying the federal Clean Water Act compensatory mitigation requirements for the above-referenced project, in accordance with the Tri-Party MOA signed on July 22, 2003 and the Dual-Party MOA signed on April 12, 2004.
4. All channel relocations will be constructed in a dry work area and stabilized before stream flows are diverted. Channel relocations will be completed and stabilized, and must be approved on site by NCDWQ staff, prior to diverting water into the new channel. Whenever possible, channel relocations shall be allowed to stabilize for an entire growing season. Stream banks shall be matted with coir-fiber matting, unless rip rap is approved. Rip-rap is allowed on the banks and in the stream bed for stream channel relocations at Site 1, 2, 3 and 5. Additional rip-rap may be allowed if it is necessary to maintain the physical integrity of the stream, but the applicant must provide written justification and any calculations used to determine the extent of rip-rap coverage requested. Vegetation used for bank stabilization shall be limited to native riparian vegetation, and should include establishment of a vegetated buffer on both sides of the relocated channel to the maximum extent practical.
5. Three, one-foot sills shall be placed in the culvert at approximately 200' apart at site 5.
6. Riprap shall not be placed in the active thalweg channel or placed in the streambed in a manner that precludes aquatic life passage. Any riprap placed below the normal high water mark in the channel bottom shall be keyed into the stream bed and banks. Bioengineering boulders or structures should be properly designed, sized and installed.
7. The outside buffer, wetland or water boundary located within the construction corridor approved by this authorization 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.
8. The stream channel shall be excavated no deeper than the natural bed material of the stream, to the maximum extent practicable. Efforts must be made to minimize impacts to the stream banks, as well as to vegetation responsible for maintaining the stream bank stability.

General Conditions:

9. Unless otherwise approved in this certification, placement of 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 NCDWQ. If this condition is unable to be met due to bedrock or other limiting features encountered during construction, please contact NCDWQ for guidance on how to proceed and to determine whether or not a permit modification will be required.
10. 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.
11. 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.
12. 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.
- \* 13. The Permittee shall ensure that the final design drawings adhere to the permit and to the permit drawings submitted for approval.
14. 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. No temporary impacts have been approved for dewatering. If temporary impacts are necessary, a modification to this permit will be required.


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. This approval will expire with the accompanying 404 federal permit.
17. 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.
18. No rock, sand or other materials shall be dredged from the stream channel except where authorized by this certification.
19. Discharging hydroseed mixtures and washing out hydroseeders and other equipment in or adjacent to surface waters is prohibited.
20. 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 NCDWQ 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, NCDWQ may reevaluate and modify this certification.
21. All fill slopes located in jurisdictional wetlands shall be placed at slopes no flatter than 3:1, unless otherwise authorized by this certification..
22. A copy of this Water Quality Certification shall be maintained on 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.
23. 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.
24. The Permittee shall report any violations of this certification to the Division of Water Quality within 24 hours of discovery.
- \* 25. Upon completion of the project (including any impacts at associated borrow or waste sites), the NCDOT Division Engineer shall complete and return the enclosed "Certification of Completion Form" to notify NCDWQ when all work included in the 401 Certification has been completed.
26. Native riparian vegetation must be reestablished within the construction limits of the project by the end of the growing season following completion of construction.
27. There shall be no excavation from, or waste disposal into, jurisdictional wetlands or waters associated with this permit 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.
28. 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:
29. 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*.
  - a. 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.
  - b. 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*.
  - c. The reclamation measures and implementation must comply with the reclamation in accordance with the requirements of the Sedimentation Pollution Control Act.
  - d. Sediment and erosion control measures shall not be placed in wetlands or waters unless otherwise approved by this Certification.

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 25th day of February 2010

DIVISION OF WATER QUALITY



A Coleen H. Sullins  
Director

WQCN0. 003818



259

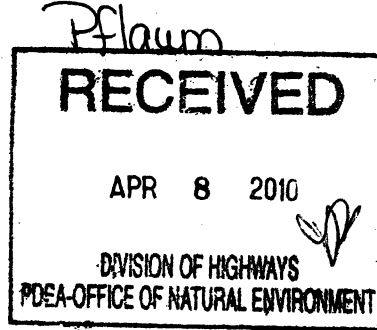
North Carolina Department of Environment and Natural Resources

Division of Water Quality  
Coleen H. Sullins  
Director

Dee Freeman  
Secretary

Beverly Eaves Perdue  
Governor

April 1, 2010



RECEIVED  
Division of Highways

APR 07 2010

Preconstruction  
Project Development and  
Environmental Analysis Branch

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

Subject: Correction to 401 Water Quality Certifications for NCDWQ Project No. 20091070.

Dear Dr. Thorpe:

This letter is in regards to the Individual 401 Water Quality Certification issued for R2612A authorizing stream and wetland impacts. Condition 5, shall be replaced with the following condition:

A series of alternating sills (1' tall by 6' wide and 6" tall by 2' spanning the width of the 8' wide culvert) shall be placed approximately every 15' for the entire length of the culvert. See attached Detail A.

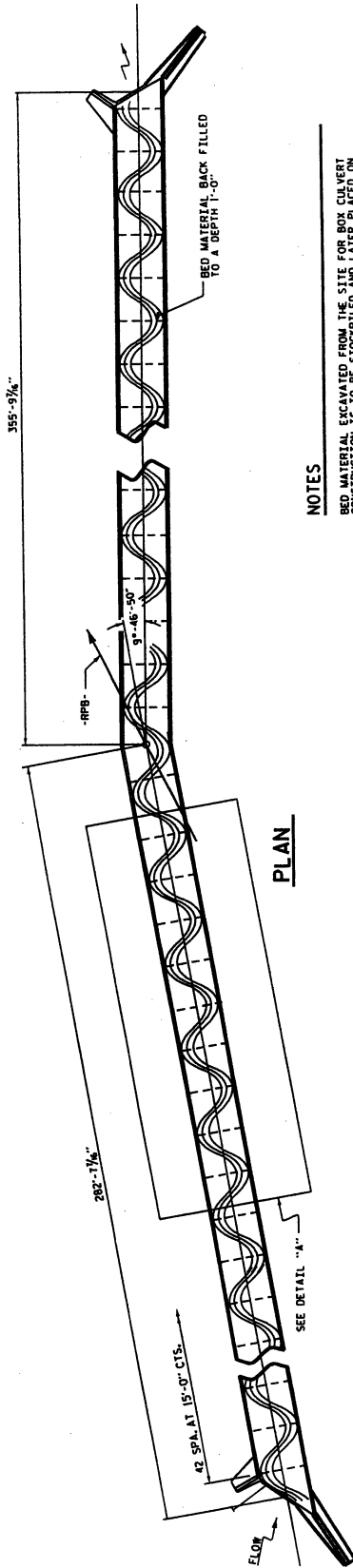
Please attach a copy of this letter with any copies of the original Water Quality Certifications and any subsequent modifications. All other conditions written into the previous Water Quality Certification for this project still applies, except where superseded by this correction. If you have any questions, please contact Army Euliss at (336) 771-4959.

Sincerely,

for Coleen H. Sullins  
Director

Attachment: Sill Detail A

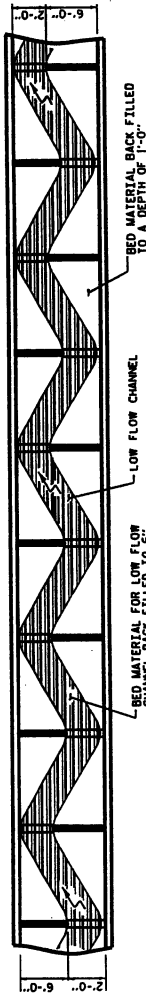
cc: Andy Williams, US Army Corps of Engineers, Raleigh Field Office  
Chris Militscher, Environmental Protection Agency  
Travis Wilson, NC Wildlife Resources Commission  
Wetlands/401 Transportation Permitting Unit  
File Copy



PLAN

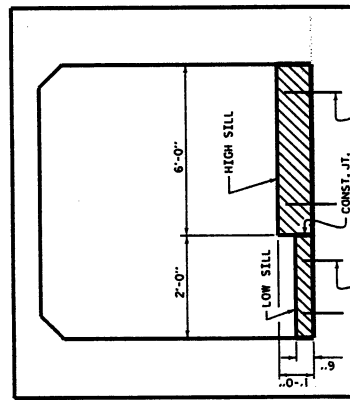
NOTES

BED MATERIAL EXCAVATED FROM THE SITE FOR BOX CULVERT CONSTRUCTION IS TO BE STOCKPILED AND LATER PLACED ON THE FLOOR OF THE COMPLETED CULVERT.  
 BED MATERIAL PLACED BETWEEN SILLS IN THE CULVERT SHALL PROVIDE A CONTINUOUS LOW FLOW CHANNEL BETWEEN THE LOWER SILLS. BED MATERIAL IS SUBJECT TO APPROVAL BY THE ENGINEER.  
 MATERIAL SHALL NOT BE REMOVED UNTIL STREAM FLOW HAS BEEN PERMANENTLY CUT OFF FROM THAT PORTION OF THE STREAM.  
 ALL WORK INVOLVING EXCAVATION, STOCKPILING AND PLACING OF BED MATERIAL SHALL BE INCLUDED IN THE LUMP SUM PRICE BID FOR "CULVERT EXCAVATION".  
 THE CONTRACTOR SHALL SUBMIT A PLAN FOR SILL INSTALLATION TO THE ENGINEER.  
 FOR ADHESIVELY ANCHORED ANCHOR BOLTS OR DOMELS, SEE SPECIAL PROVISIONS.  
 HIGH SILLS AND LOW SILLS ARE TO BE CAST SEPARATELY.



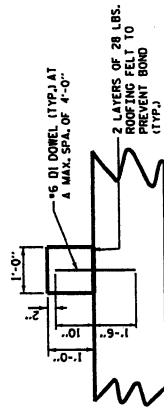
DETAIL "A"

LOW SILL  
 HIGH SILL

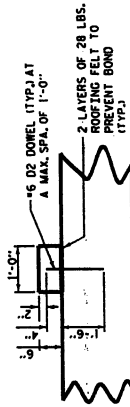


ELEVATION

\* DOMELS MAY BE PUSHED INTO GREEN CONCRETE AFTER SLAB HAS BEEN FLOAT FINISHED.



SECTION THRU HIGH SILL



SECTION THRU LOW SILL

PROJECT NO. R-2612A  
 GUILFORD COUNTY  
 STATION: 26+05.11 - RPR

SHEET 7 OF 7

STATE OF NORTH CAROLINA  
 DEPARTMENT OF TRANSPORTATION  
 DIVISION OF HIGHWAYS

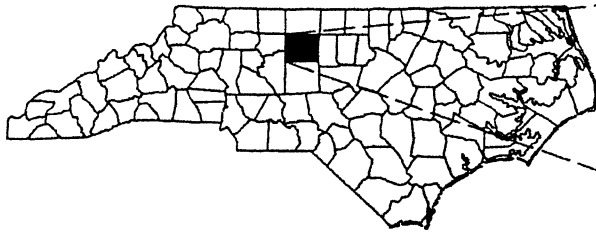
CULVERT SILLS  
 8 FT. x 8 FT.  
 CONCRETE BOX CULVERT

REVISIONS		DATE	BY	CHKD	DATE
1					
2					
3					
4					

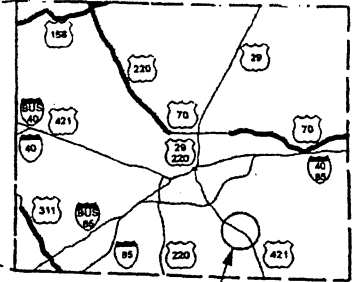
DRAWN BY: N. O. TRAY  
 CHECKED BY: J. P. BURGER  
 DATE: 1/20/09  
 CITY: REXBURG

\*\*\*\*\*CONCRETE\*\*\*\*\*

261

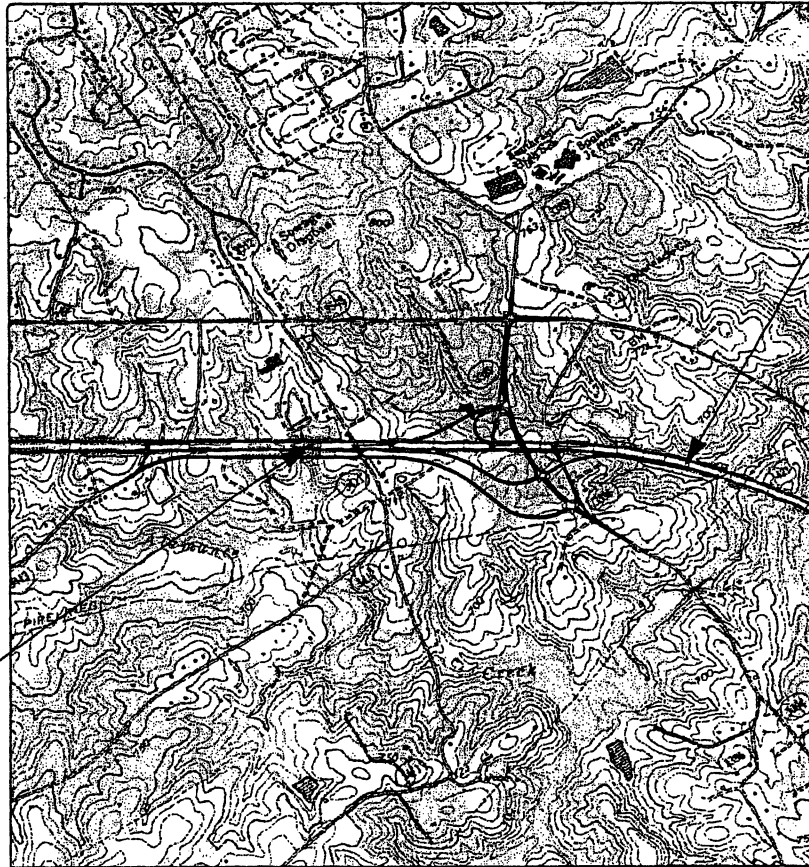


SEE INSET BELOW



SITE

GUILFORD COUNTY



END PROJECT

BEGIN PROJECT

VICINITY MAP

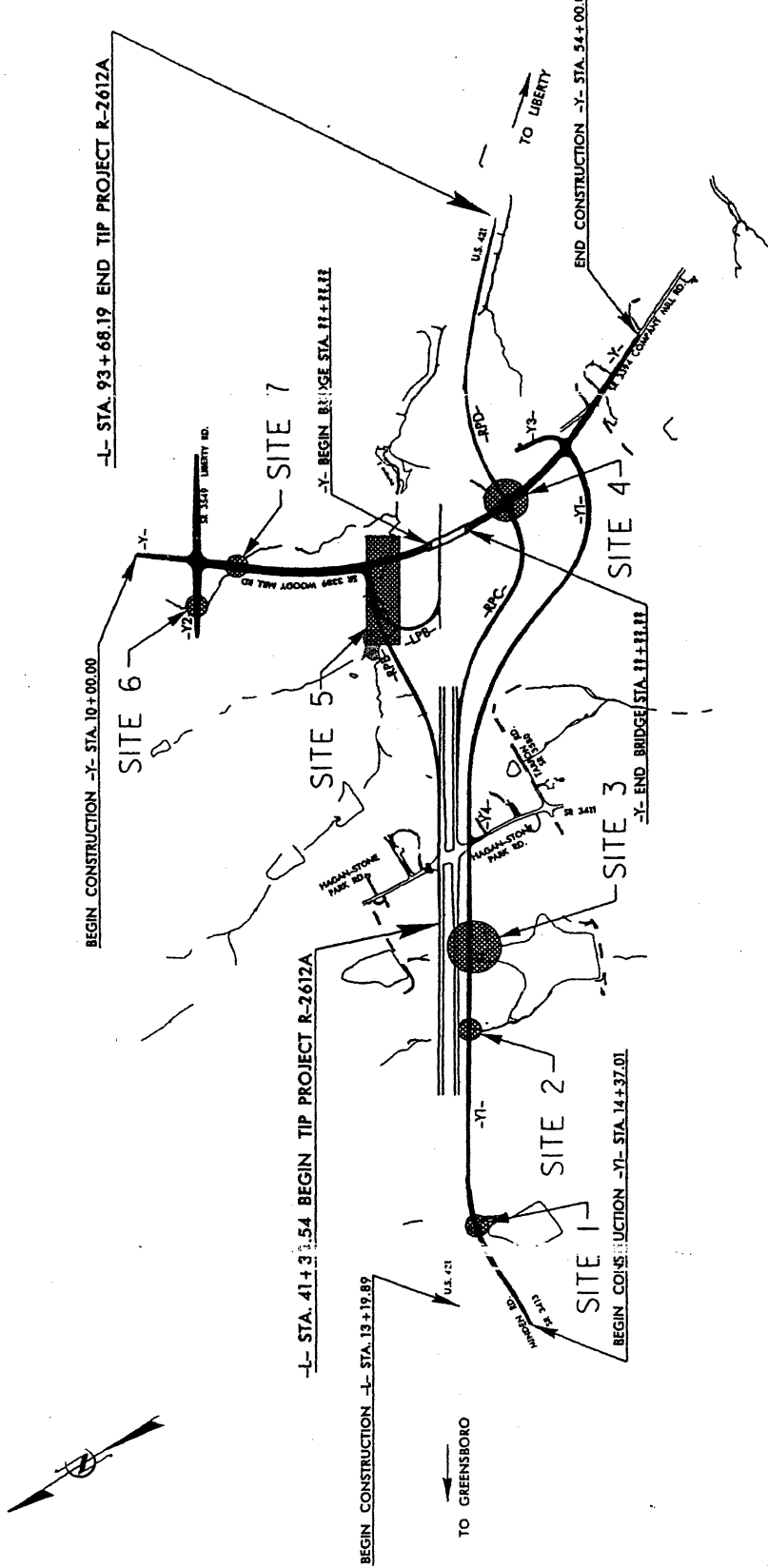
NTS

WETLAND/STREAM IMPACTS

NCDOT

DIVISION OF HIGHWAYS  
GUILFORD COUNTY  
PROJECT: 33483.11 (R-2612A)

US 421 AT SR 3389  
(WOODY MILL ROAD)  
SOUTH OF GREENSBORO



262

**NCDOT**  
 DIVISION OF HIGHWAYS  
 GUILFORD COUNTY  
 PROJECT: 33483.1.1 (R-2612A)  
 US 421 AT SR 3389  
 (WOODY MILL ROAD)  
 SOUTH OF GREENSBORO  
 SHEET 2 OF 30 12/15/08

**PLAN VIEW**  
**WETLAND/STREAM IMPACTS**

# PROPERTY OWNERS

NAMES AND ADDRESSES

PARCEL NO.	NAMES	ADDRESSES
2	ANN S. HILLIARD & GLADYS S. BOWMAN	
6	BETTY E. SYKES, WALLACE G. FREEMAN JR. & EDNA F. HELMS	
10	ALLIE D. GREGORY	
	NORTH CAROLINA DEPARTMENT OF TRANSPORTATION	
13	FREDERICK WILLIAM HOLT	
14	HAROLD WAYNE & KAREN T. SMITH	
15	S. G. WOMACK & MARGUERITE T. WOMACK	
23	JOE R. & JEAN D. STAFFORD	
24	ABDULLAH ALSHANTEER & OSAMA AL YATEEM	

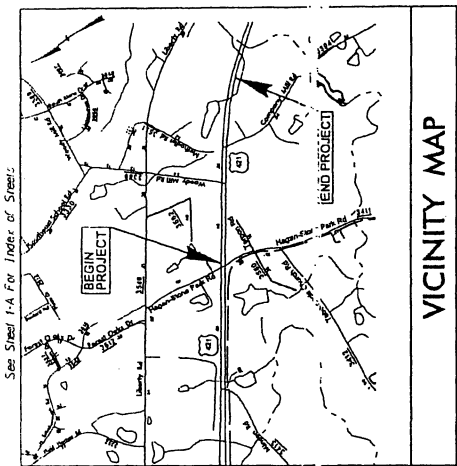
**NCDOT**  
 DIVISION OF HIGHWAYS  
 GUILFORD COUNTY  
 PROJECT: 33483.1.1 (R-2612A)  
 US 421 AT SR 3389  
 (WOODY MILL ROAD)  
 SOUTH OF GREENSBORO

WETLAND PERMIT IMPACT SUMMARY

Site No.	Station (From / To)	Structure Size / Type	WETLAND IMPACTS				SURFACE WATER IMPACTS								
			Permanent Fill in Wetlands (ac)	Temporary Fill in Wetlands (ac)	Excavation in Wetlands (ac)	Mechanized Clearing in Wetlands (Method III) (ac)	Hand Clearing in Wetlands (ac)	Permanent SW Impacts (ac)	Temporary SW Impacts (ac)	Existing Channel Impacts Permanent (ft)	Natural Stream Design (ft)	Stream Bank Stabilization (ft)			
1	-Y1- 22+10 To 23+03	42" RCP	0.07			0.01					0.02		145		
2	-Y1- 37+06	Str. No. 9 & 36" RCP									0.02		73		15
3	-Y1- 42+02 To 42+75	Str. No. 14 to 15 (36" RCP)	0.04			0.01					0.03		201		
4	-Y- 37+28 To 38+86 (-RPC- 29+01 To -RPD- 20+71)	30" Class IV RCP	0.08		< 0.01										
5	-Y- 28+27 To 28+56 (-RPB- 23+02 To 28+60 and -LPB- 15+70 To 20+90)	8' X 8' RCBC w/ 1' Sills	0.21		0.02	0.03					0.13		856		
6	-Y2- 12+22 To 12+80	Str. No. 48 To 49 (3' X 3' Box Culvert)									< 0.01		73		15
7	-Y- 18+75 To 18+21	Str. No. 52 to 53 (Exist. 48" Conc. Pipe)									0.01		94		15
TOTALS:			0.40		0.02	0.05					0.21		1442		45

NCDOT  
 DIVISION OF HIGHWAYS  
 GUILFORD COUNTY  
 PROJECT: 33483.1.1 (R-2612A)  
 US 421 AT SR 3389  
 (WOODY MILL ROAD)  
 SOUTH OF GREENSBORO

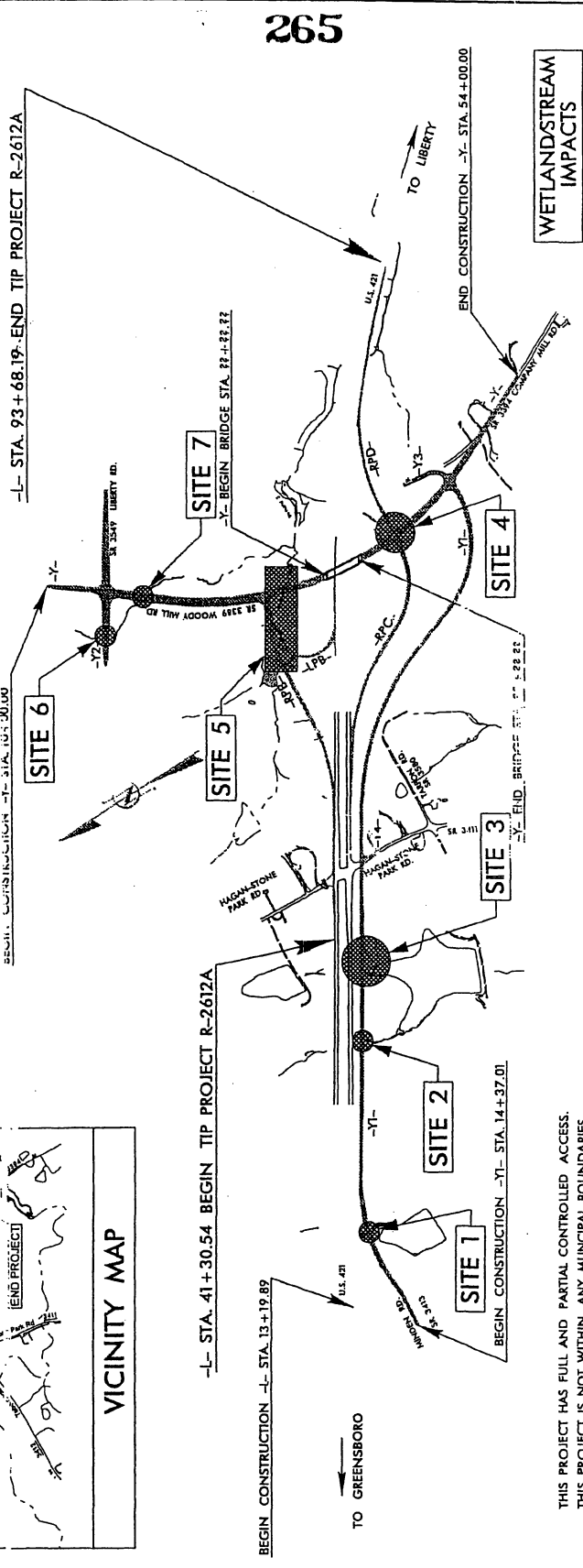




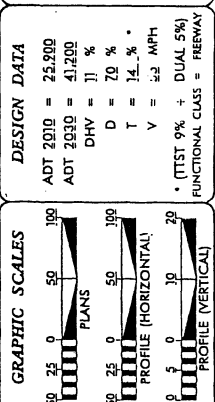
STATE OF NORTH CAROLINA  
 DIVISION OF HIGHWAYS  
**GUILFORD COUNTY**  
 LOCATION: US 421 AT SR 3389 (WOODY MILL ROAD)  
 SOUTH OF GREENSBORO  
 TYPE OF WORK: GRADING, DRAINAGE, PAVING AND STRUCTURES

APPROVED  
 N.C. REG. NO. 2009-01927  
 ACTION ID: 2009-01927  
 APPLICANT: NCDOT  
 PROJECT NAME: TIP R-2612A  
 SHEET 1 OF 27

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



THIS PROJECT HAS FULL AND PARTIAL CONTROLLED ACCESS.  
 THIS PROJECT IS NOT WITHIN ANY MUNICIPAL BOUNDARIES.  
 CLEANING ON THIS PROJECT SHALL BE PERFORMED TO  
 THE LIMITS ESTABLISHED BY METHOD



PROJECT LENGTH

LENGTH ROADWAY TIP PROJECT R-2612A = 0.925 MI  
 TOTAL LENGTH TIP PROJECT R-2612A = 0.925 MI

Prepared in the Office of:  
**DIVISION OF HIGHWAYS**  
 1000 Birch Ridge Dr., Raleigh, NC, 27611

RIGHT OF WAY DATE:  
 OCTOBER 17, 2008

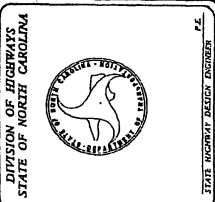
LETTING DATE:  
 MAY 18, 2010

HYDRAULICS ENGINEER

ROADWAY DESIGN ENGINEER

PROJECT ENGINEER

PROJECT ENGINEER



PROJECT REFERENCE NO. R-2612A  
SHEET NO. 4

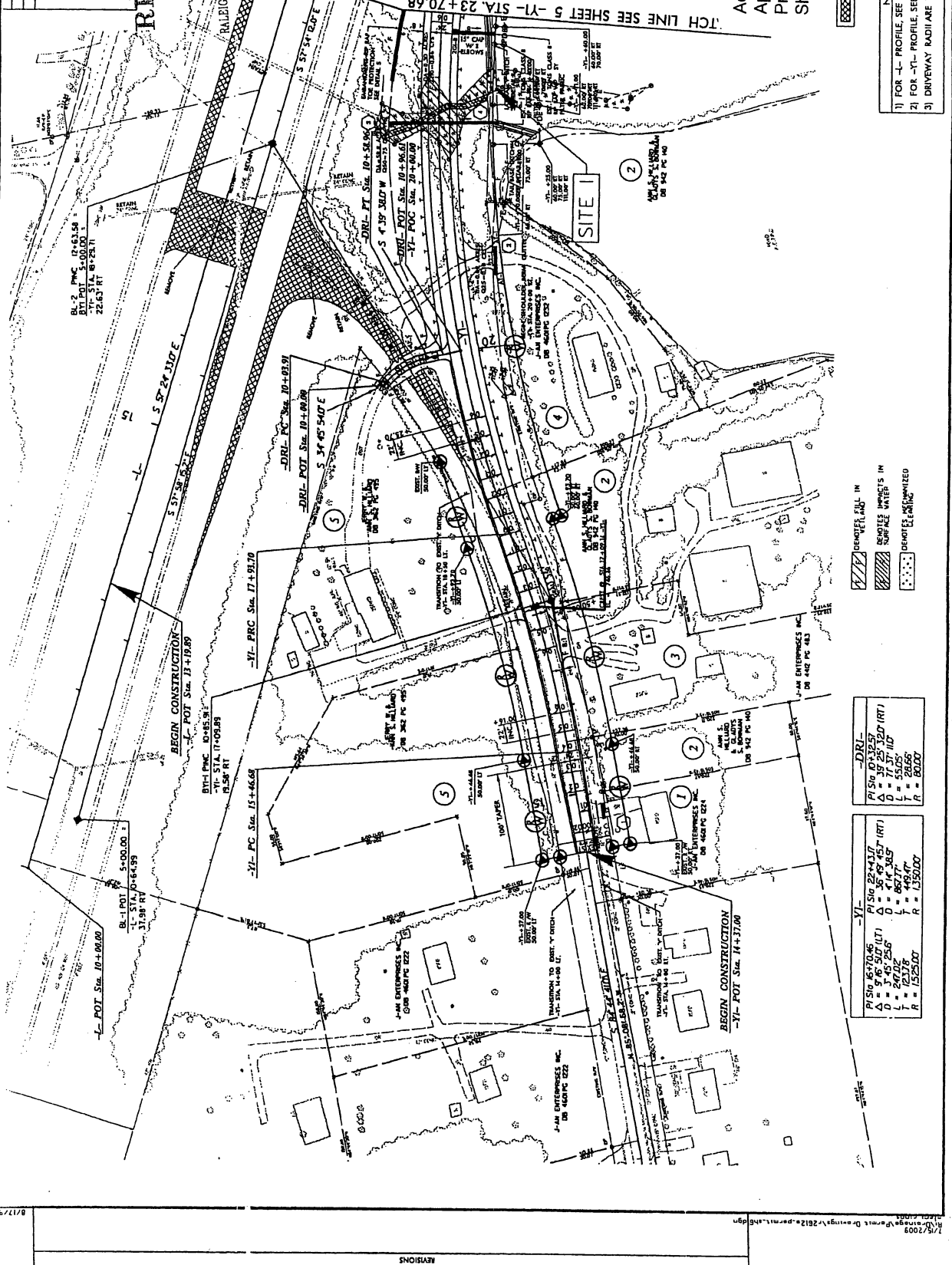
DESIGNED BY: CIVIL ENGINEERS  
CHECKED BY: CIVIL ENGINEERS  
INCOMPLETE PLANS  
PRELIMINARY PLANS  
PERMIT DRAWING

Sheet 4 of 10  
DEC 7 2009

RALEIGH LABORATORY FIELD OFFICE  
MAD 83

266

Action Id: 2009-01927  
Applicant: NCDOT  
Project Name: TIP R-2612A  
Sheet 2 of 27



- REMOVAL
- REMOVAL
- REMOVAL
- REMOVAL

**-DRL-**

PI Sta	07+32.57
Δ	39' 25" 120' (RT)
Δ	55' 37" 110'
L	240.2'
T	28.65'
R	80.00'

**-Y1-**

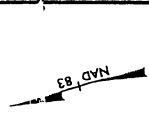
PI Sta	22+43.77
Δ	35' 49" 457' (RT)
Δ	60' 17" 305'
L	240.2'
T	49.47'
R	1350.00'

- NOTES
- 1) FOR -L- PROFILE, SEE SHEET 14
  - 2) FOR -Y1- PROFILE, SEE SHEETS 19 AND 20
  - 3) DRIVEWAY RADII ARE 10' UNLESS OTHERWISE NOTED

1/4/2009

REVISIONS

PROJECT NUMBER: 04  
 SHEET NO. 4  
 E-2137  
 CIVIL ENGINEER  
 INCOMPLETE PLANS  
 PRELIMINARY PLANS  
 PERMIT DRAWING 30  
 Sheet 7 of 30

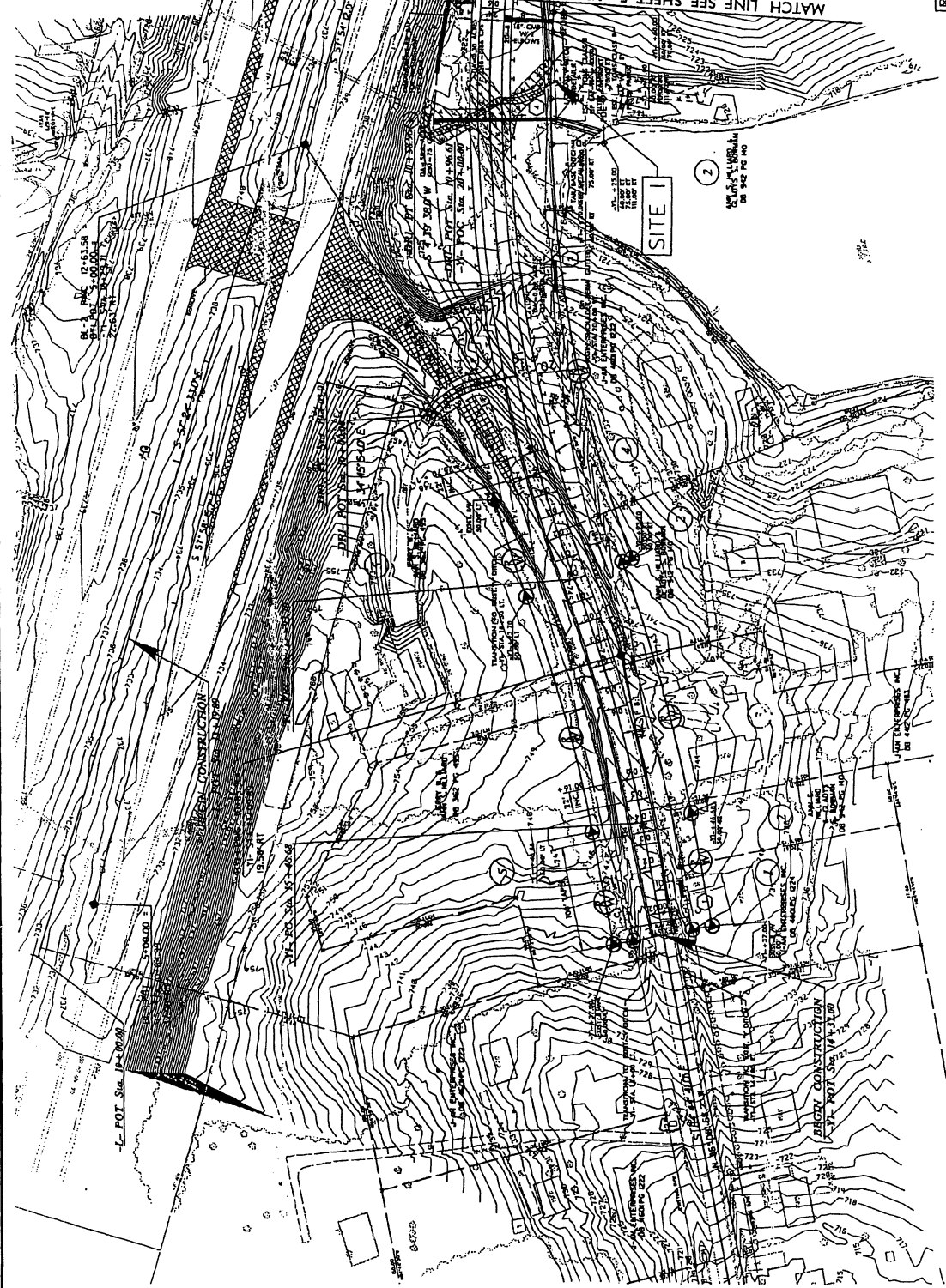


RECEIVED

DEC. 02 2009

SOIL REGULATORY FIELD OFFICE

267



Action Id: 2009-01927  
 Applicant: NCDOT  
 Project Name: TIP R-2612A  
 Sheet 3 of 27

FAVEMENT REMOVAL

- NOTES
- 1) FOR -L- PROFILE, SEE SHEET 14
  - 2) FOR -1- PROFILE, SEE SHEETS 19 AND 20
  - 3) DRIVEWAY RADIARE 10' UNLESS OTHERWISE NOTED

- REMOVED EARTH IN
- REMOVES IMPACTS IN SURFACE WATER
- REMOVES UNGRADED
- REMOVES EXISTING

-DRI-  
 P = 516.45  
 A = 516.45  
 D = 77.57  
 L = 55.05  
 R = 60.00

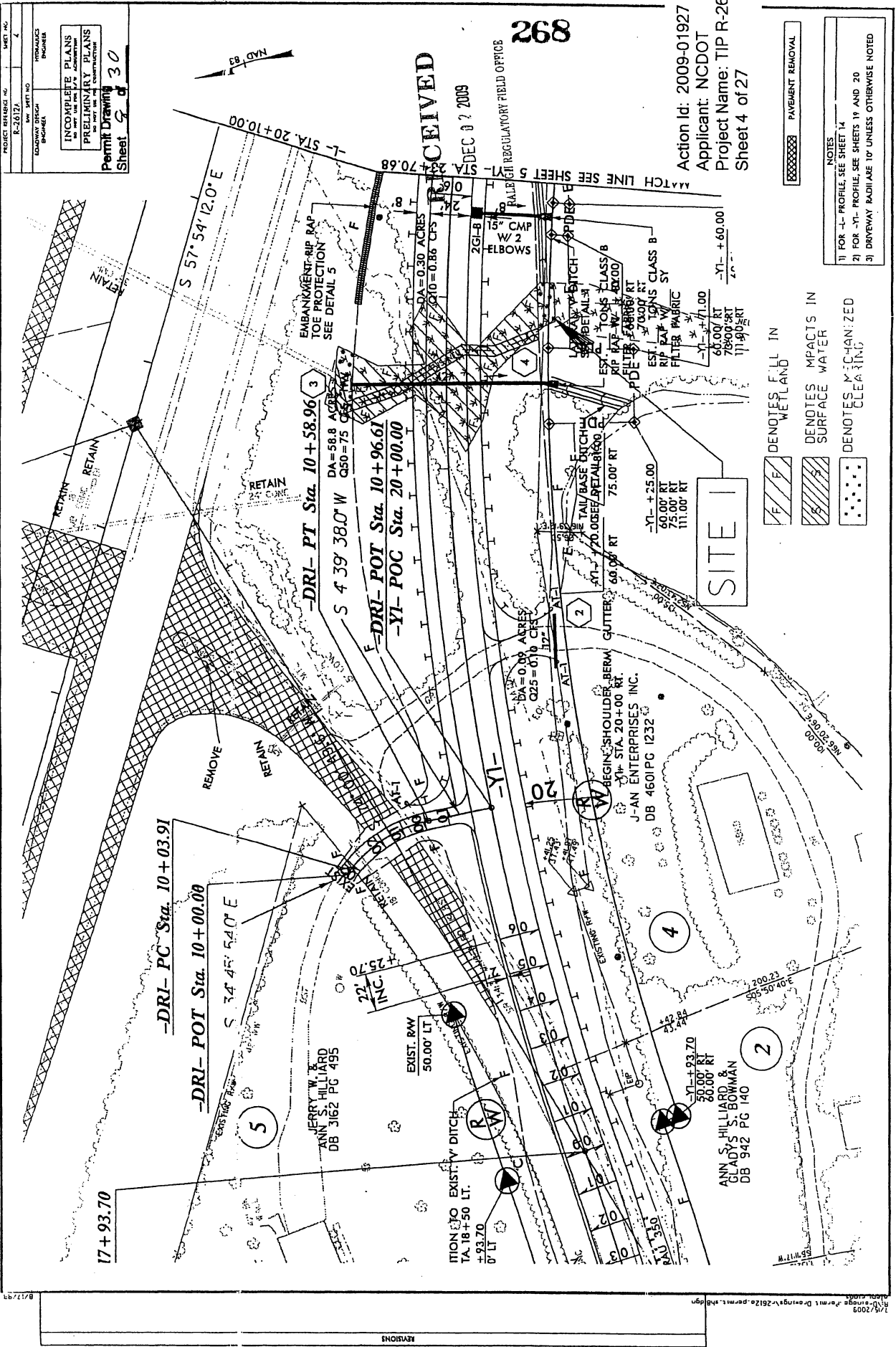
-VI-  
 P = 516.45  
 A = 516.45  
 D = 77.57  
 L = 55.05  
 R = 60.00

PROJECT REFERENCE NO.	E-2617
DATE	7/2009
DESIGNER	PERMITS SECTION
INCOMPLETE PLANS	
PRELIMINARY PLANS	
PERMIT DRAWING	
SHEET NO.	30

Sheet 30 of 30

268

Action Id: 2009-01927  
 Applicant: NCDOT  
 Project Name: TIP R-2612A  
 Sheet 4 of 27



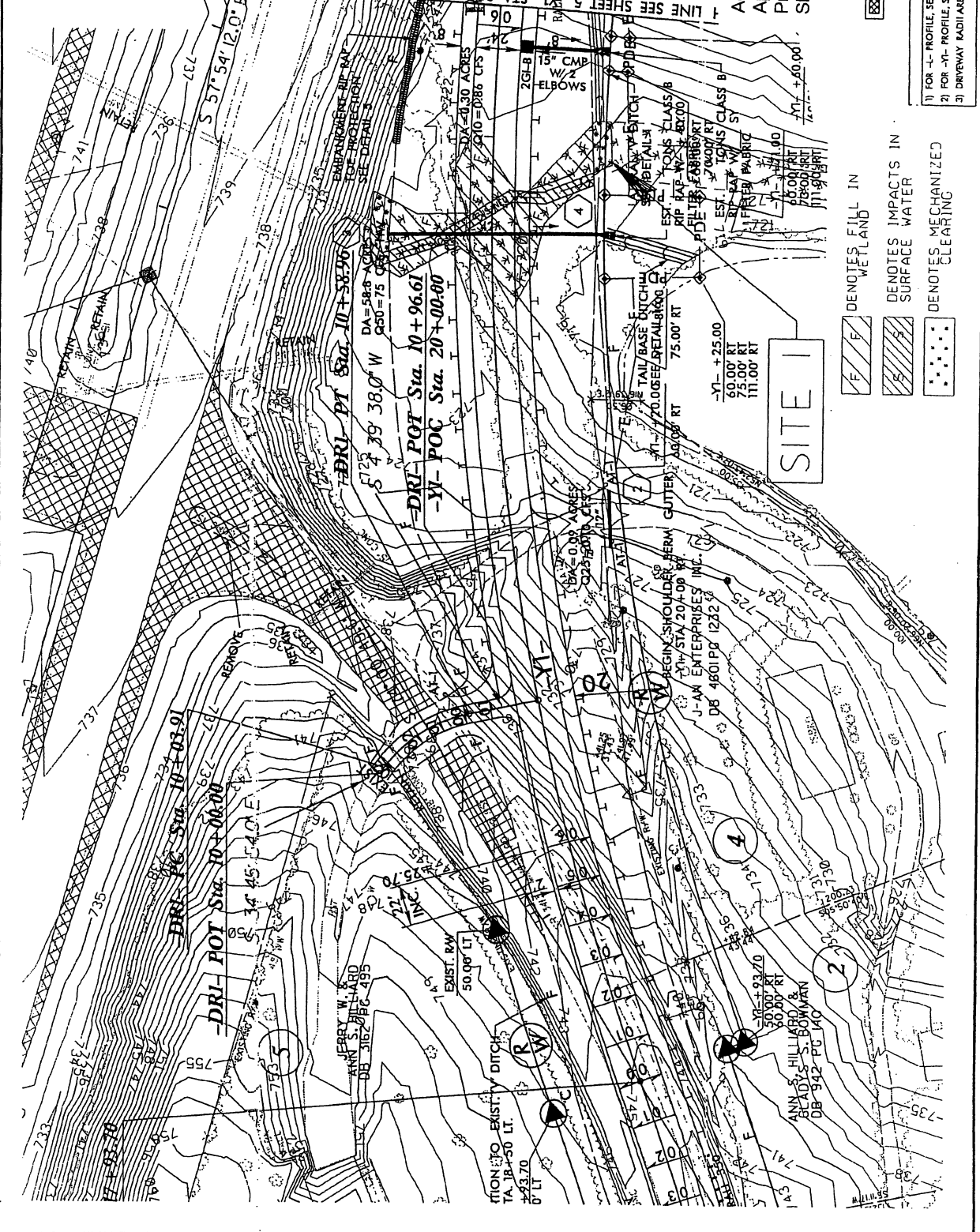
- NOTES**
- 1) FOR -I- PROFILE, SEE SHEET 14
  - 2) FOR -YI- PROFILE, SEE SHEETS 19 AND 20
  - 3) DRIVEWAY RADII ARE 10' UNLESS OTHERWISE NOTED

LEGEND:

- DENOTES FILL IN WETLAND
- DENOTES IMPACTS IN SURFACE WATER
- DENOTES MECHANIZED CLEANING
- PAVEMENT REMOVAL

**SITE I**

PROJECT REFERENCE NO. R-2612A  
 SHEET NO. 4  
 INCOMPLETE PLANS  
 PRELIMINARY PLANS  
 PERMIT DRAWING 30  
 Sheet 9 of 30



NOTES

- 1) FOR -L- PROFILE, SEE SHEET 14
- 2) FOR -Y- PROFILE, SEE SHEETS 19 AND 20
- 3) DRIVEWAY RADIUS ARE 10' UNLESS OTHERWISE NOTED

Action Id: 2009-01927  
 Applicant: NCDOT  
 Project Name: TIP R-2612A  
 Sheet 5 of 27

RECEIVED  
 DEC 17 2009  
 RANGH REGULATORY FIELD OFFICE

- [Symbol] DENOTES FILL IN WETLAND
- [Symbol] DENOTES IMPACTS IN SURFACE WATER
- [Symbol] DENOTES MECHANIZED CLEARING
- [Symbol] PAVEMENT REMOVAL

SITE 1

PROJECT NUMBER: 022008  
 SHEET NO. 270

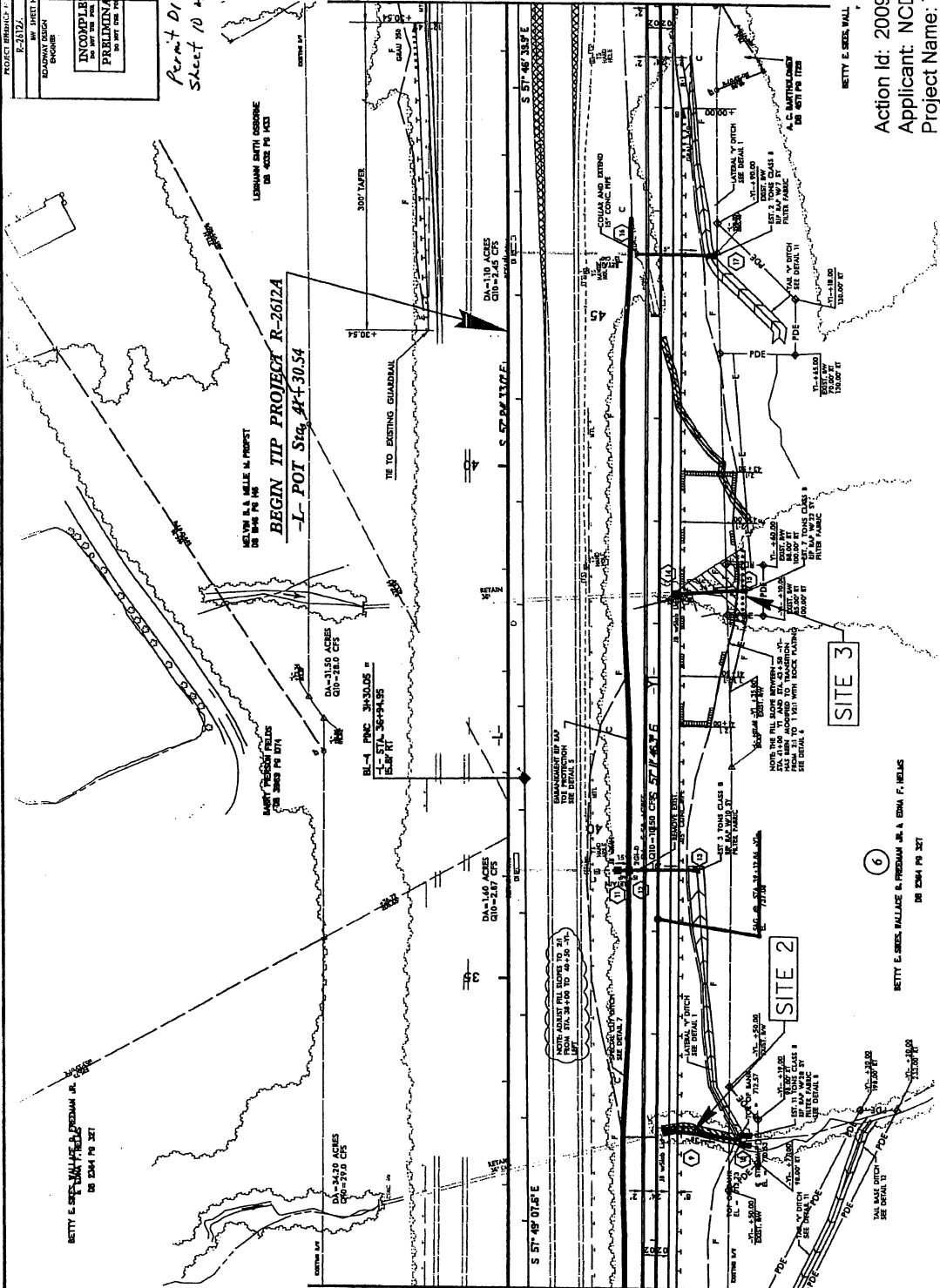
DESIGNED BY: R. B. D. ENGINEERING  
 CHECKED BY: R. B. D. ENGINEERING  
 DRAWN BY: R. B. D. ENGINEERING

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

Permit Drawing  
 Sheet 10 of 30

MATCH LINE SEE SHEET 7 -L- STA. 44+50.00

270



MATCH LINE SEE SHEET 5 -L- STA. 32+00.00

Action Id: 2009-01927  
 Applicant: NCDOT  
 Project Name: TIP R-2612A  
 Sheet 6 of 27

NOTES

- FOR -L- PROFILE, SEE SHEETS 14 AND 15
- FOR -M- PROFILE, SEE SHEET 20

022008 - DESIGN REVISION: REMOVED ALIGNMENT -RA-; ADDED ALIGNMENT -LFB-; AND ADJUSTED THE HORIZONTAL AND VERTICAL ALIGNMENTS FOR  
 REGIONS

FEB 19  
 RECD

Regulatory Branch

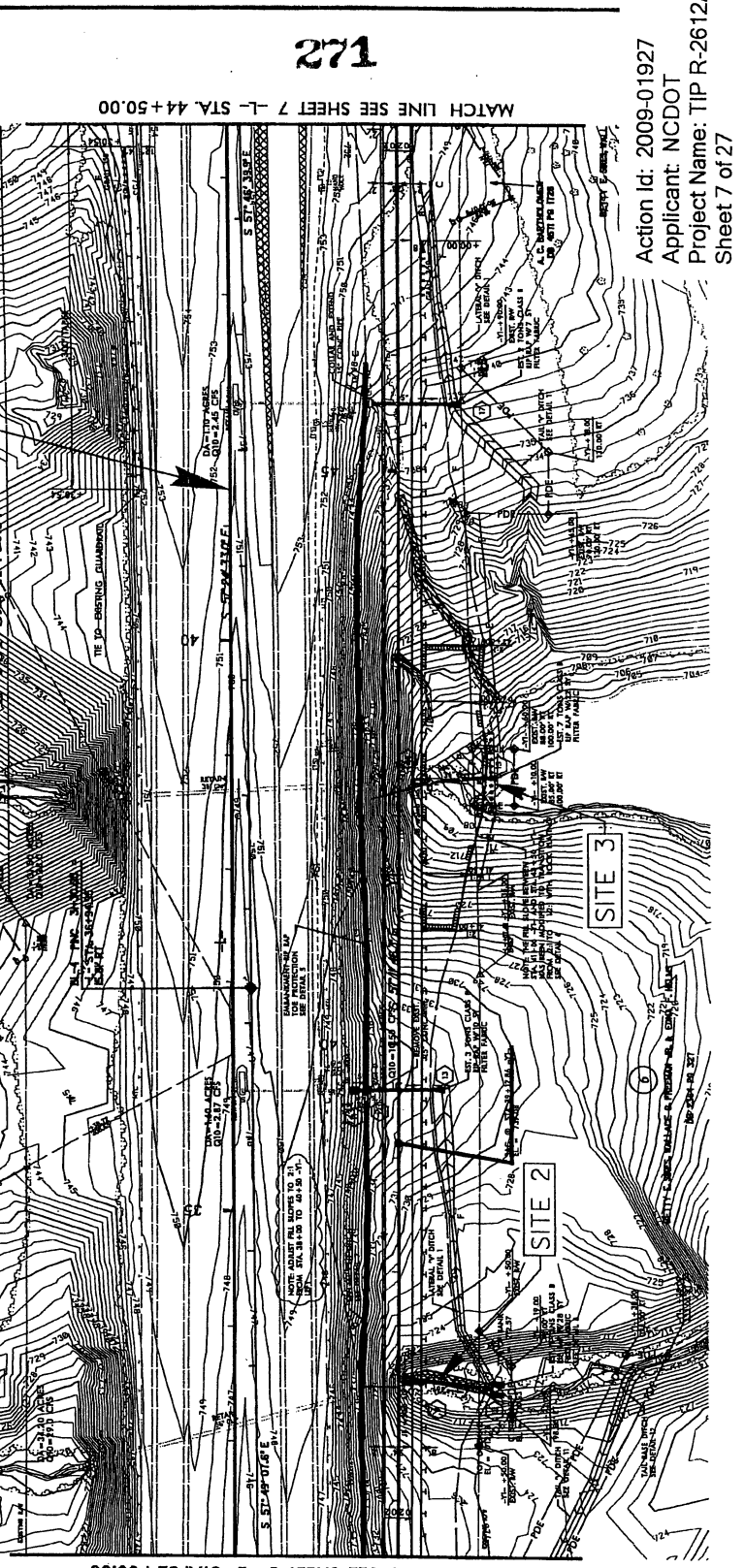
IDENTIFIED IN  
 SURFACE WATER IN  
 IDENTIFIED

1/10/2009  
 11/17/07

PROJECT NUMBER: 09-2012  
 SHEET NO. 6  
 COUNTY: WYOMING  
 TOWNSHIP: 11 N  
 RANGE: 30 W

INCOMPLETE PLANS  
 PRELIMINARY PLANS  
 FOR THE USE OF THE CONTRACTOR

RECENT PLANNING  
 11/4/30



271

Action Id: 2009-01927  
 Applicant: NCDOT  
 Project Name: TIP R-2612A  
 Sheet 7 of 27

NOTES  
 1) FOR -L- PROFILE, SEE SHEETS 14 AND 15  
 2) FOR -Y- PROFILE, SEE SHEET 20

REVISIONS  
 02/2008 - DESIGN REVISIONS, REMOVED ALIGNMENT -RPA-, ADDED ALIGNMENT -LFA-, AND ADDED THE HORIZONTAL AND VERTICAL ALIGNMENTS FOR  
 -RFE- TO ACCOMMODATE -LFB-, -SCL-  
 02/2010 - 02/2010  
 02/2010 - 02/2010

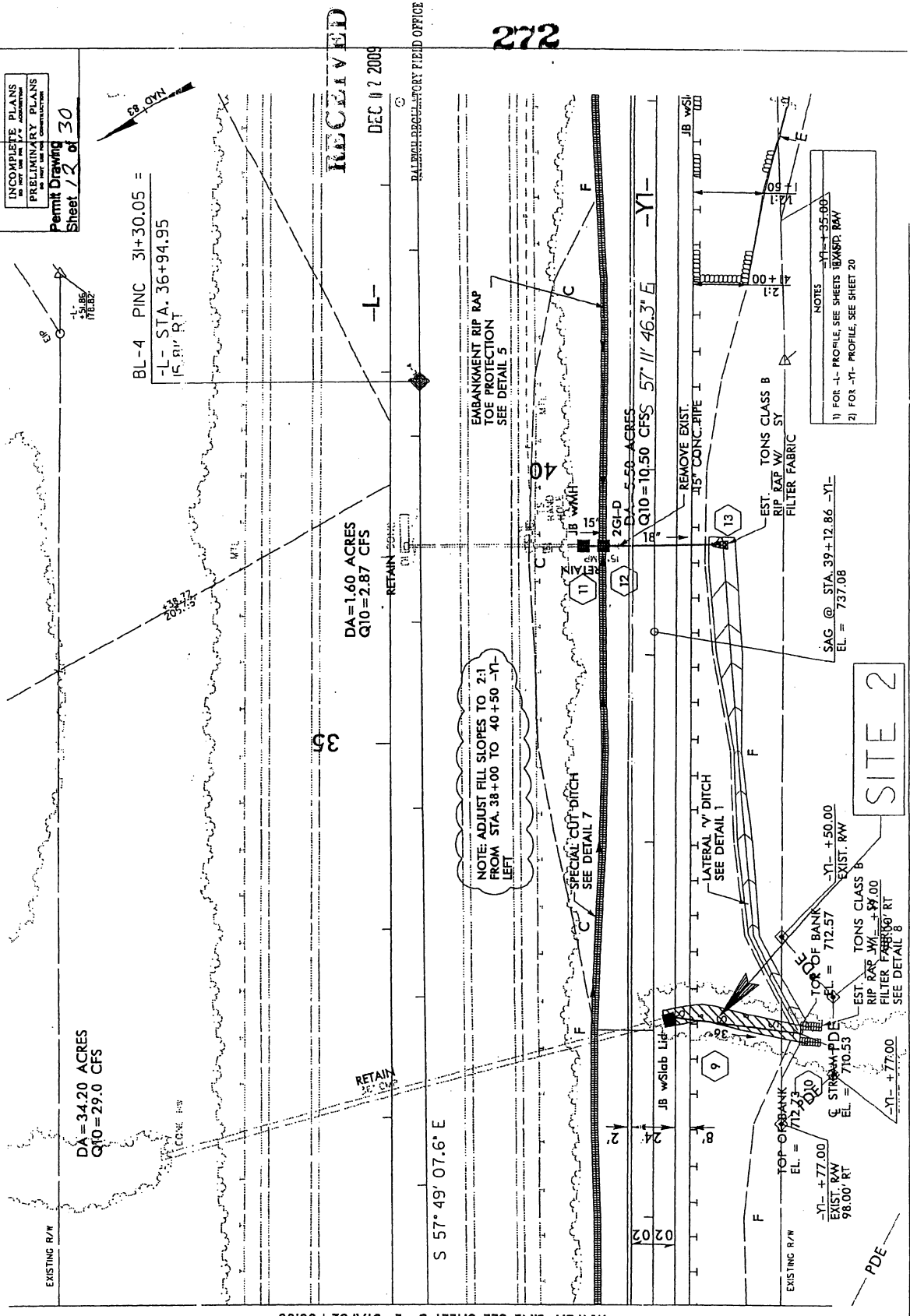
RECEIVED  
 FEB 12 2010

UNAPPROVED  
 REMOVED IMPACTS BY  
 REMOVED WATER  
 REMOVED CHANNELS

Applicant: NCDOT  
 Project Name: TIP R-2612A  
 Sheet 8 of 27

PROJECT APPROVAL NO. E-2012A SHEET NO. 8  
 ROADWAY DESIGN ENGINEER  
 HYDRAULICS ENGINEER  
 INCOMPLETE PLANS  
 PRELIMINARY PLANS  
 NOT FOR CONSTRUCTION  
 Permit Drawing  
 Sheet 12 of 30

DENOTES IMPACTS IN  
 SURFACE WATER

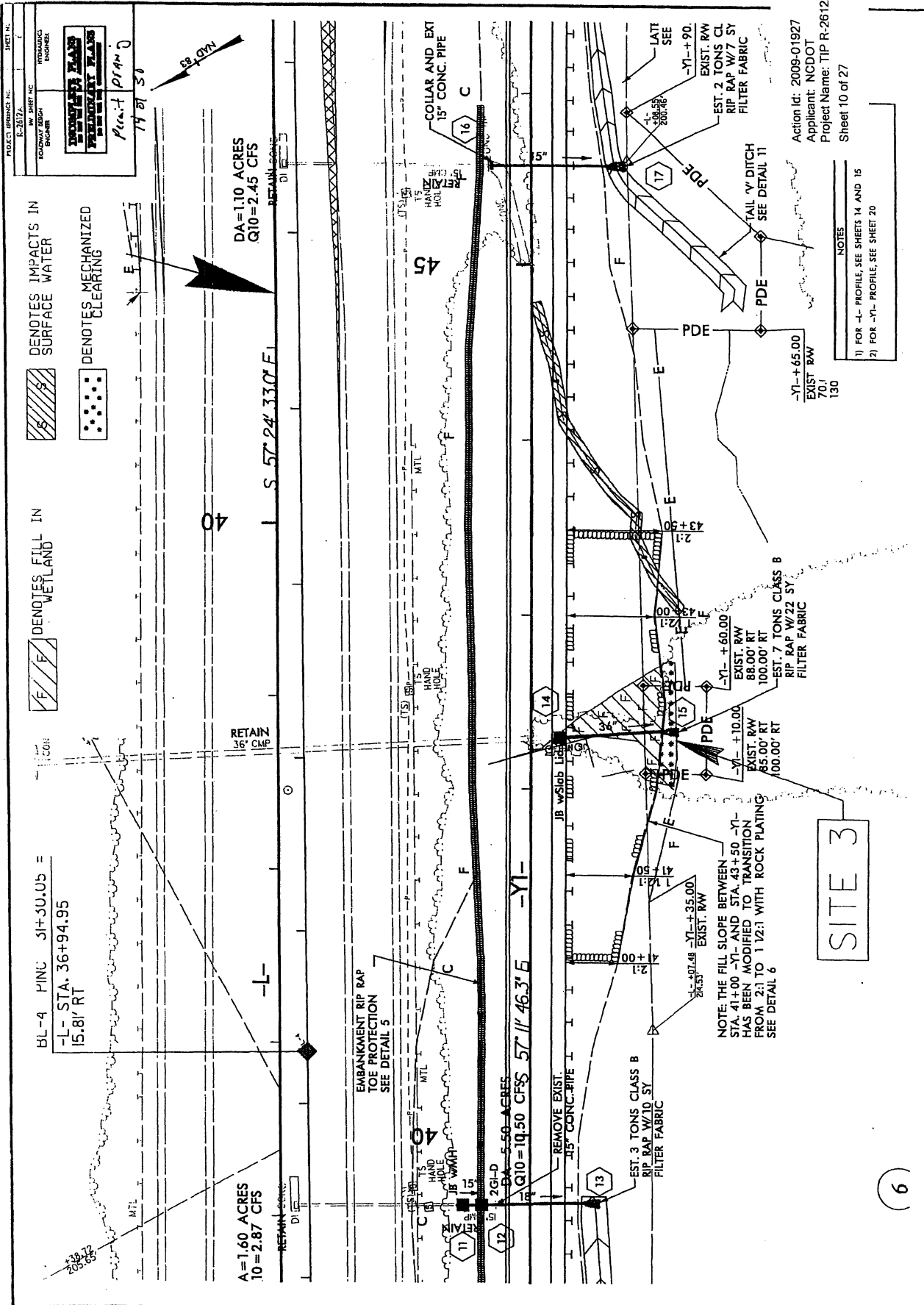


MATCH LINE SEE SHEET 5 -L- STA. 32+00.00

05/2008 - DESIGN REVISION: REMOVED ALIGNMENT -RFA-; ADDED ALIGNMENT -LFB-; AND ADJUSTED THE HORIZONTAL AND VERTICAL ALIGNMENTS FOR  
 -RFB- TO ACCOMMODATE -LFB-; SCT  
 1/12/2009  
 1/12/2009  
 1/12/2009







PROJECT: URBAN INC. SHEET NO. 6  
 DATE: 8-20-09  
 BY: SHEET NO. 6  
 ROADWAY DESIGN ENGINEER  
**PROFESSIONAL SEAL**  
 PLANT 10/14/10  
 19 21 30

DENOTES IMPACTS IN SURFACE WATER  
 DENOTES FILL IN WETLAND  
 DENOTES MECHANIZED CLEARING

BL-4 PINC 31+30.05 =  
 -L- STA. 36+94.95  
 15.81' RT

A=1.60 ACRES  
 10=2.87 CFS

DA=1.10 ACRES  
 Q10=2.45 CFS

261-D  
 BA=5.50 ACRES  
 Q10=19.50 CFS  
 57' 11" 46.3' E

EST. 3 TONS CLASS B  
 RIP RAP W/10' ST  
 FILTER FABRIC

EST. 7 TONS CLASS B  
 RIP RAP W/22' ST  
 FILTER FABRIC

EST. 2 TONS CLASS B  
 RIP RAP W/7' ST  
 FILTER FABRIC

EST. 2 TONS CLASS B  
 RIP RAP W/7' ST  
 FILTER FABRIC

EST. 2 TONS CLASS B  
 RIP RAP W/7' ST  
 FILTER FABRIC

EST. 2 TONS CLASS B  
 RIP RAP W/7' ST  
 FILTER FABRIC

EST. 2 TONS CLASS B  
 RIP RAP W/7' ST  
 FILTER FABRIC

EST. 2 TONS CLASS B  
 RIP RAP W/7' ST  
 FILTER FABRIC

RETAIN 16' C.M.F.

EMBANKMENT RIP RAP TOE PROTECTION SEE DETAIL 5

REMOVE EXIST. 15\"/>

COLLAR AND EXT 15\"/>

LAT. SEE

NOTE: THE FILL SLOPE BETWEEN STA. 41+00 -Y1- AND STA. 43+50 -Y1- HAS BEEN MODIFIED TO TRANSITION FROM 2:1 TO 1 1/2:1 WITH ROCK PLACING. SEE DETAIL 6

NOTES  
 1) FOR -L- PROFILE, SEE SHEETS 14 AND 15  
 2) FOR -Y1- PROFILE, SEE SHEET 20

Action Id: 2009-01927  
 Applicant: NCDOT  
 Project Name: TIP R-2612A  
 Sheet 10 of 27

SITE 3

6

REC  
 FEB 12

REC  
 FEB 12

REC  
 FEB 12

REC  
 FEB 12

REC  
 FEB 12

REC  
 FEB 12

REC  
 FEB 12

REC  
 FEB 12

REC  
 FEB 12

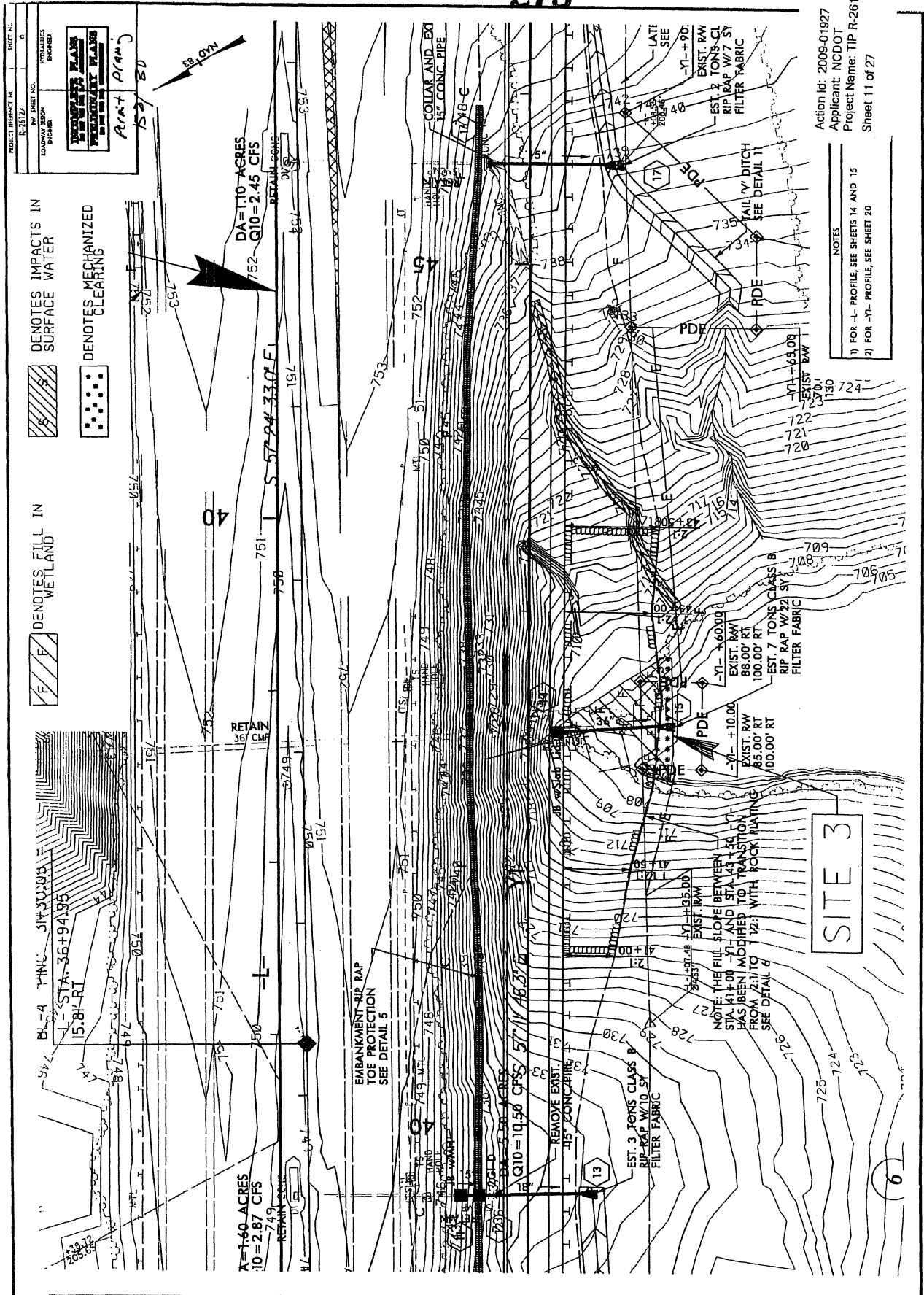
REC  
 FEB 12

REC  
 FEB 12

REC  
 FEB 12

REC  
 FEB 12

REC  
 FEB 12



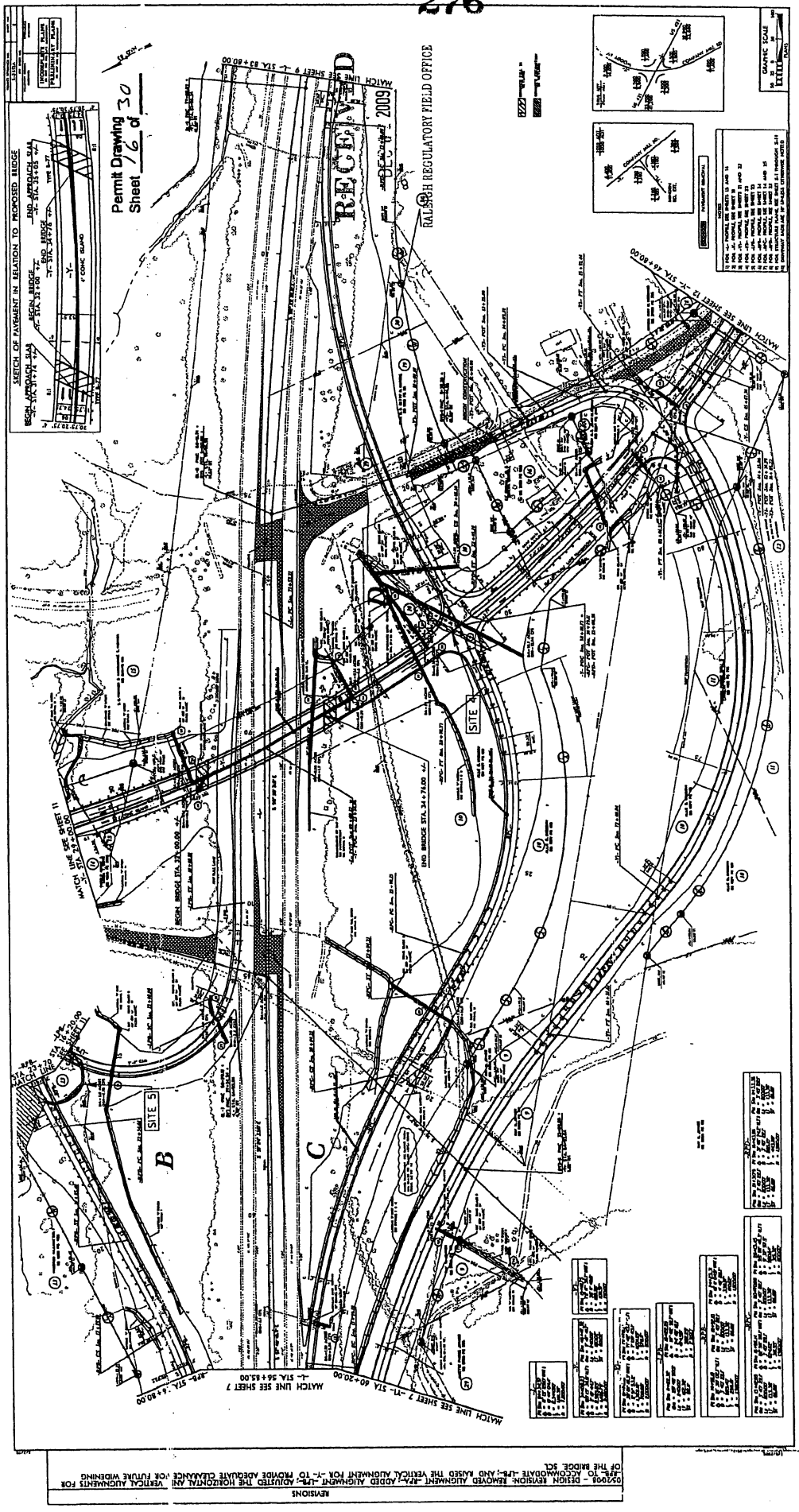
02/20/10 DESIGN REVISION: REMOVED ALIGNMENT -RPA- ADDED ALIGNMENT -LPA- AND ADJUSTED THE HORIZONTAL AND VERTICAL ALIGNMENTS FOR  
 -RFB- TO ACCOMMODATE -LFB- SCL  
 REVISIONS  
 Regulator Branch

RECEIVED  
 FEB 12 2010

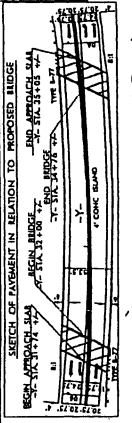
SITE 3

Action Id: 2009.01927  
 Applicant: NCDOT  
 Project Name: TIP R-2612A  
 Sheet 11 of 27

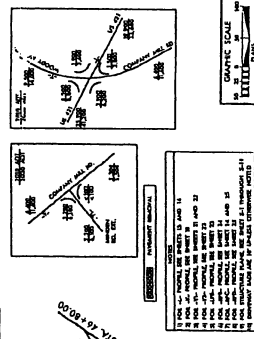
Action Id: 2009-01927  
 Applicant: NCDOT  
 Project Name: TIP R-2612A  
 Sheet 12 of 27



REVISIONS  
 02/2009 - DESIGN REVISION: REMOVED ALIGNMENT 44P - ADDED ALIGNMENT 44T - ADJUSTED THE HORIZONTAL AND VERTICAL ALIGNMENTS FOR  
 OF THE BRIDGE SK  
 01 - RECONSTRUCT - LIFT AND RAISE THE VERTICAL ALIGNMENT 44P - TO PROVIDE ADEQUATE CLEARANCE FOR FUTURE WIDENING



Permit Drawing 30  
 Sheet 16 of 30



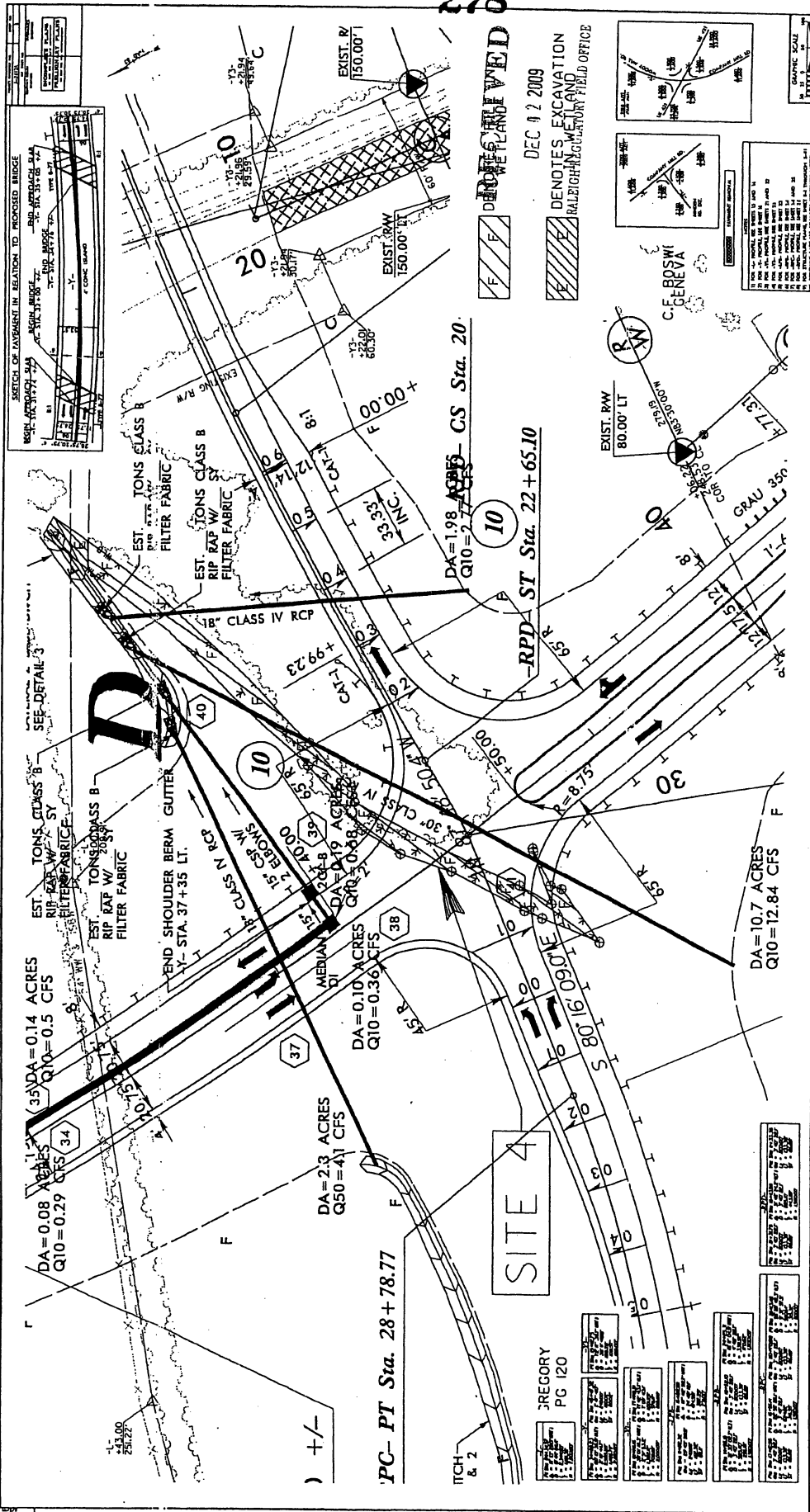
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2	REVISION	08/11/2009
3	REVISION	08/11/2009
4	REVISION	08/11/2009
5	REVISION	08/11/2009
6	REVISION	08/11/2009
7	REVISION	08/11/2009
8	REVISION	08/11/2009
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26	REVISION	08/11/2009
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29	REVISION	08/11/2009
30	REVISION	08/11/2009

NO.	DESCRIPTION	DATE
1	ISSUED FOR PERMIT	08/11/2009
2	REVISION	08/11/2009
3	REVISION	08/11/2009
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27	REVISION	08/11/2009
28	REVISION	08/11/2009
29	REVISION	08/11/2009
30	REVISION	08/11/2009



Action ic: 2005-01927  
Applicant: NCDOT  
Project Name: TIP R-2612A  
Sheet 14 of 27

Permit Drawing 30  
Sheet 18 of 18



REVISIONS  
05/04 - DESIGN REVISION, REMOVED ALIGNMENT 474, ADDED ALIGNMENT 475, ADJUSTED THE HORIZONTAL AND VERTICAL ALIGNMENTS FOR THE BRIDGE. 07/10 - PROVIDE ADEQUATE CLEARANCE FOR FUTURE WIDENING.  
12/10 - PROVIDE ADEQUATE CLEARANCE FOR FUTURE WIDENING.

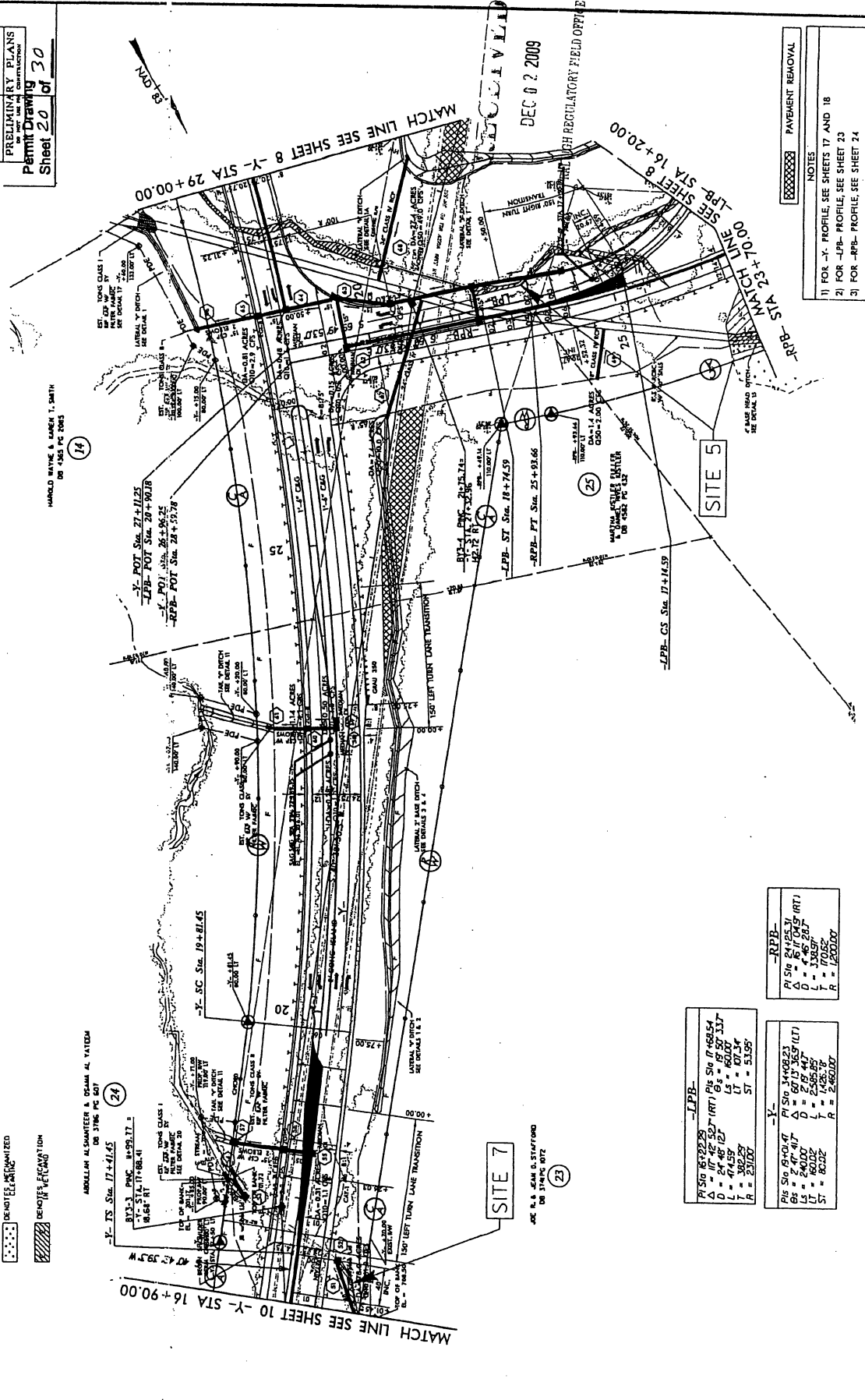


Action id: 2009-01927  
 Applicant: NCDOT  
 Project Name: TIP R-2612A  
 Sheet 16 of 27

PROJECT NUMBER: 16	SHEET NO: 16
DATE: 12/21/09	DATE: 12/21/09
DESIGNER: HANCOCK	CHECKER: HANCOCK
INCOMPLETE PLANS FOR THE PRELIMINARY PLANS PERMIT DRAWING	
Permit Drawing 30 Sheet 20 of 30	

- UTILITY LINES
- STORM WATER
- DEMARCATED UTILITIES
- REMOVAL IN RECORD

02/09/08 - DESIGN REVISION: REMOVED ALIGNMENT -RPA- ADDED ALIGNMENT -LPA- AND ADJUSTED THE HORIZONTAL AND VERTICAL ALIGNMENTS FOR  
 TO ACCOMMODATE LPA -SCL  
 REVISIONS



-LPP-	
PI S10 83+22.29	PI S10 87+68.14
Δ = 117.42 527 (RT)	Δ = 27.45 127 (RT)
D = 24.45 127	LS = 60.00 131
T = 392.28	LT = 87.34
R = 23100	ST = 53.96

-RFB-	
PI S16 24+15.31	PI S16 24+15.31 (RT)
Δ = 8.58 207 (RT)	Δ = 8.58 207 (RT)
L = 130.57	L = 130.57
T = 70.52	T = 70.52
R = 12000	R = 12000

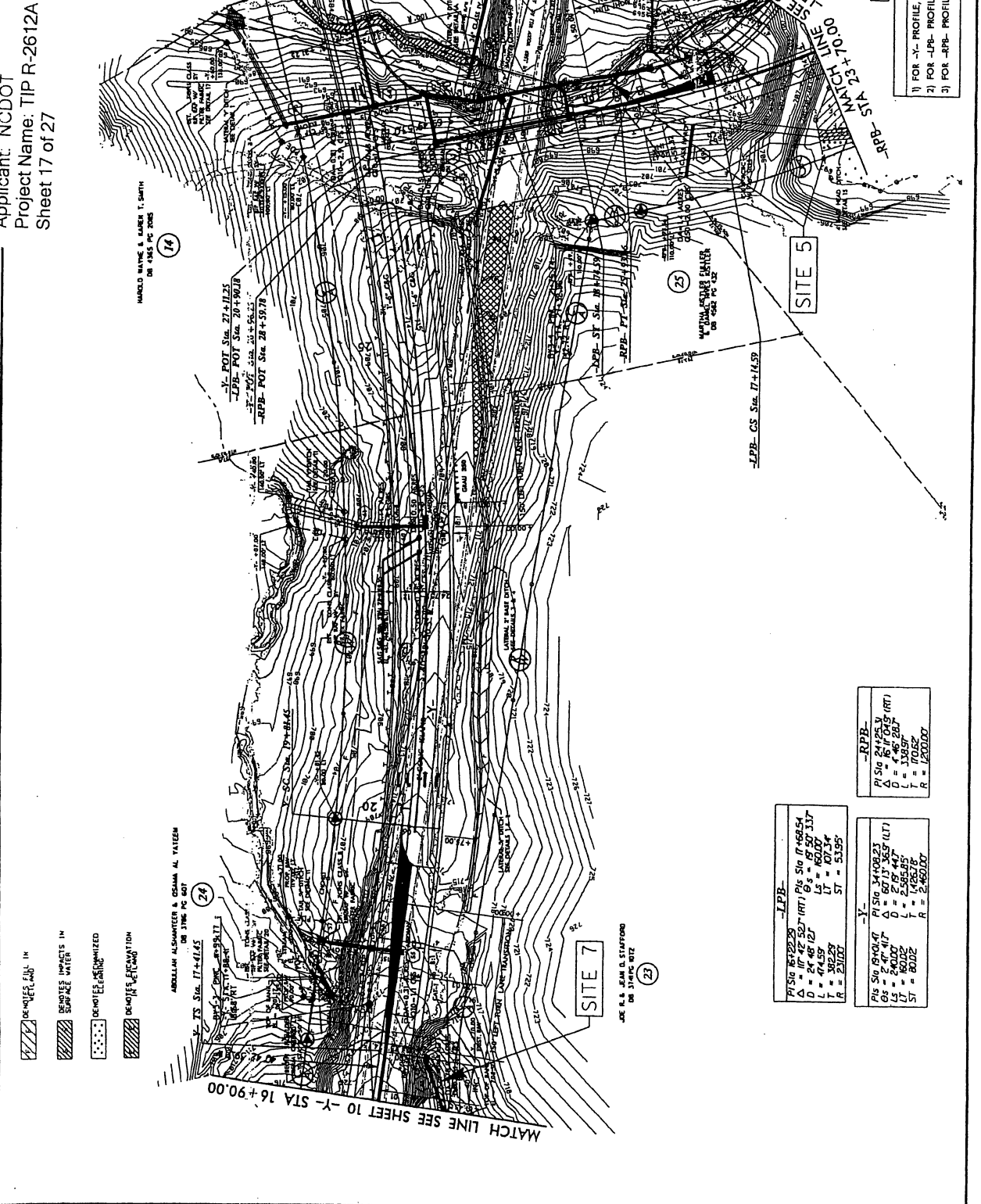
-Y-	
PI S10 84+01.47	PI S10 34+08.23
Δ = 24.00 117	Δ = 24.00 117 (LT)
LS = 60.00 117	LS = 60.00 117
L = 256.55	L = 256.55
T = 406.9	T = 406.9
R = 8032	R = 8032

- NOTES
- 1) FOR -Y- PROFILE, SEE SHEETS 17 AND 18
  - 2) FOR -LPA- PROFILE, SEE SHEET 23
  - 3) FOR -RPA- PROFILE, SEE SHEET 24



Action: IC: 2005-01927  
 Applicant: NCDOT  
 Project Name: TIP R-2612A  
 Sheet 17 of 27

PROJECT REFERENCE NO. R-2612A SHEET NO. 17  
 HYDRAULIC PACKAGES  
 INCOMPLETE PLANS  
 PRELIMINARY PLANS  
 PERMIT DRAWING  
 SHEET 17 OF 27



- DEMOLITION
- DEMOTES IMPACTS IN SURFACE WATER
- DEMOTES UNIMPROVED
- DEMOTES RETENTION

ABDULLAH ALSHAWATEER & CASHA AL YALAEEN  
 DE JURE P.C. 807

JOE R.L. JEAN D. STAFFORD  
 DE JURE P.C. 807

**LPB**

PI Sta	16+92.28	PI Sta	17+408.23
Δ	16+42.50 (RT)	Δ	67.13 (LT)
D	24.46 (20')	D	2.69 (44')
L	474.59	L	47.88 (37')
T	392.29	T	47.88 (37')
R	23100	R	2450.00

**Y**

PI Sta	16+92.28	PI Sta	17+408.23
Δ	16+42.50 (RT)	Δ	67.13 (LT)
D	24.46 (20')	D	2.69 (44')
L	474.59	L	47.88 (37')
T	392.29	T	47.88 (37')
R	23100	R	2450.00

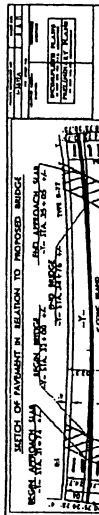
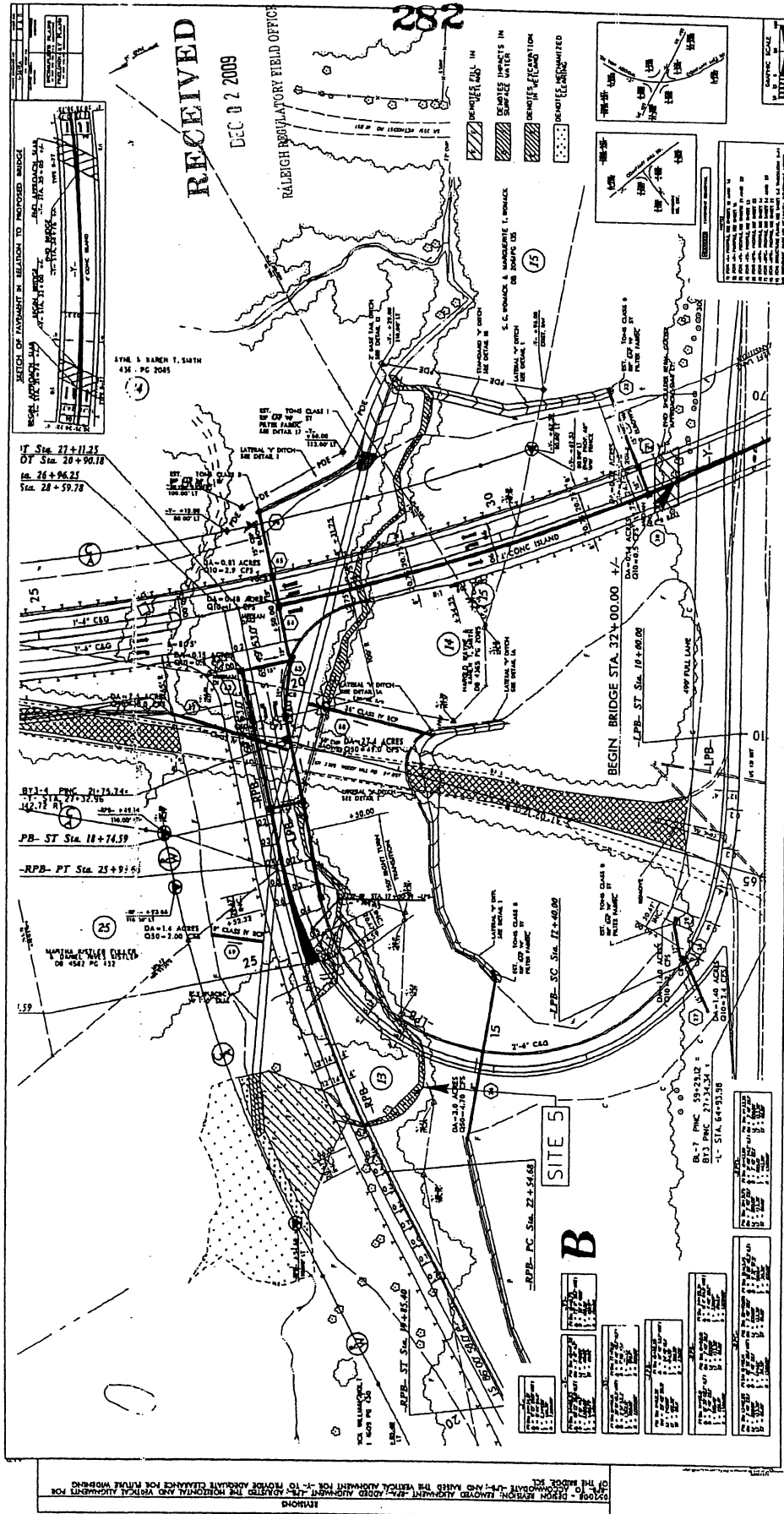
**RPB**

PI Sta	16+92.28	PI Sta	17+408.23
Δ	16+42.50 (RT)	Δ	67.13 (LT)
D	24.46 (20')	D	2.69 (44')
L	474.59	L	47.88 (37')
T	392.29	T	47.88 (37')
R	23100	R	2450.00

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 DEC 12 2009  
 REGULATORY FIELD OFFICE

- NOTES
- 1) FOR -Y- PROFILE, SEE SHEETS 17 AND 18
  - 2) FOR -LPB- PROFILE, SEE SHEET 23
  - 3) FOR -RPB- PROFILE, SEE SHEET 24

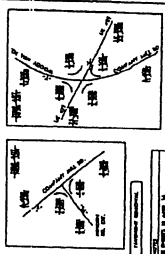
Action Id: 2009-01927  
 Applicant: NCDOT  
 Project Name: TIP R-2612A  
 Permit Drawing Sheet 22 of 30



STATIONING  
 ST. 27+11.25  
 ST. 28+96.70  
 ST. 26+86.25  
 ST. 28+59.78

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282



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NOTES: DESIGN BRIDGE 0-1' AND WARD THE VERTICAL ALIGNMENT 2'-0\"/>

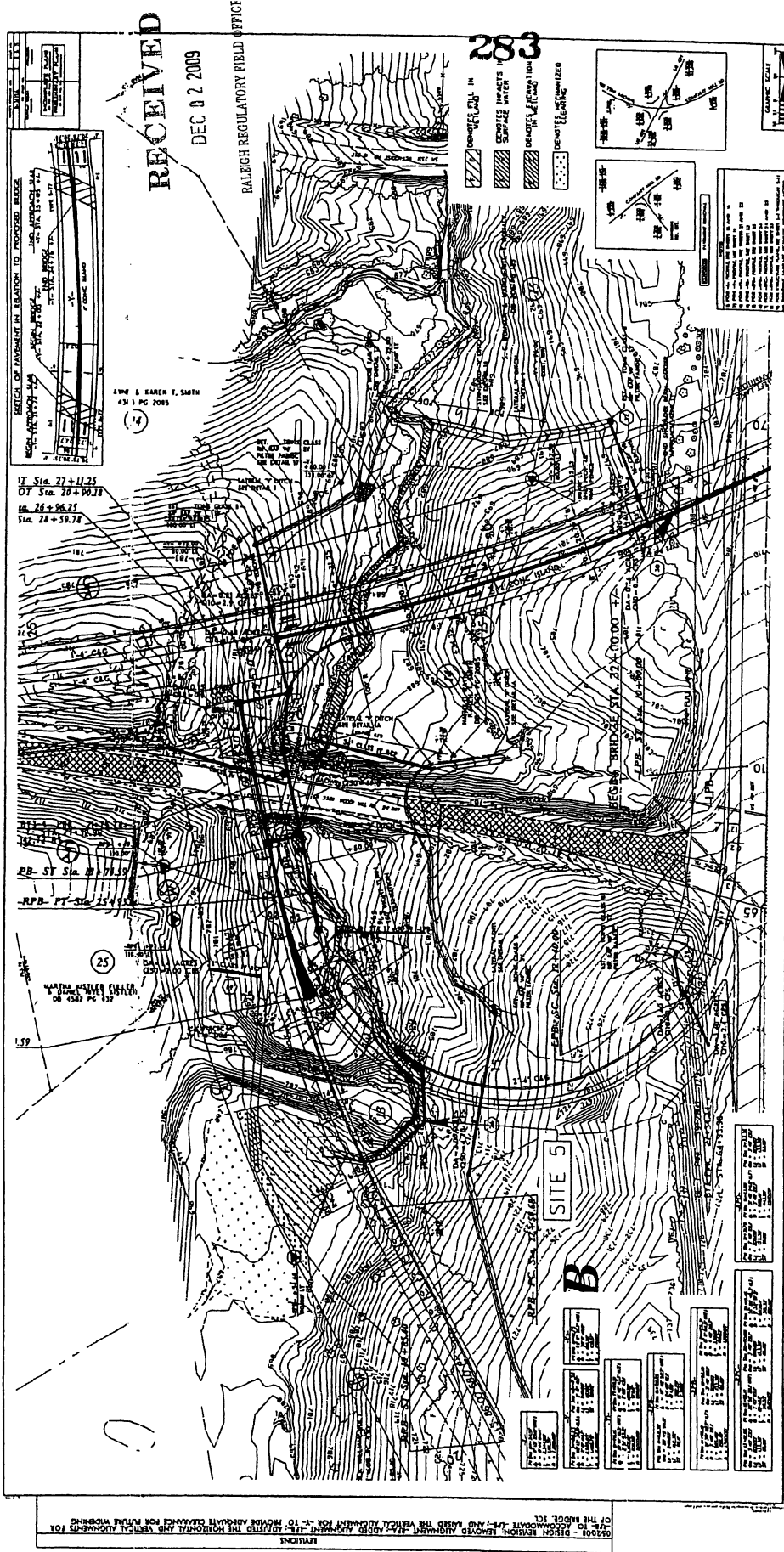
SITE 5

B

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Action IC: 2009-01927  
 Applicant: NCDOT  
 Project Name: TIP R-2612A  
 Sheet 19 of 27

Permit Drawing  
 Sheet 23 of 30

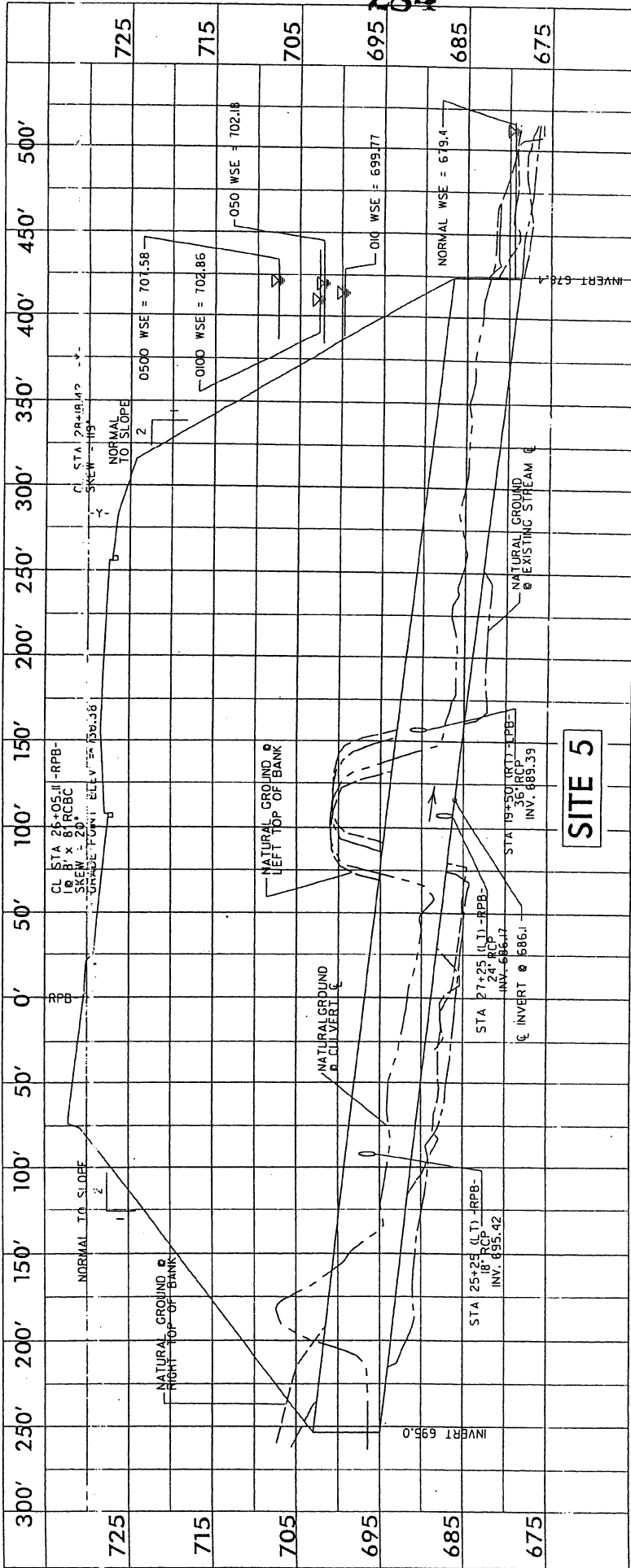


Action Id: 2009-01927  
 Applicant: NCDOT  
 Project Name: TIP R-2612A  
 Sheet 20 of 27

R

DEC 02 2009

RALEIGH REGULATORY PERMITTING DIVISION  
 Sheet 24 of 30



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SITE 5

PROJECT REFERENCE NO.  
E-2612A

SHEET NO.  
10

DESIGNER  
INTEGRATED ENGINEERS  
INCORPORATED

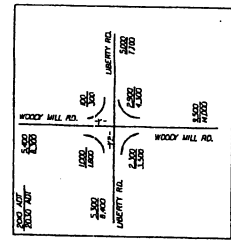
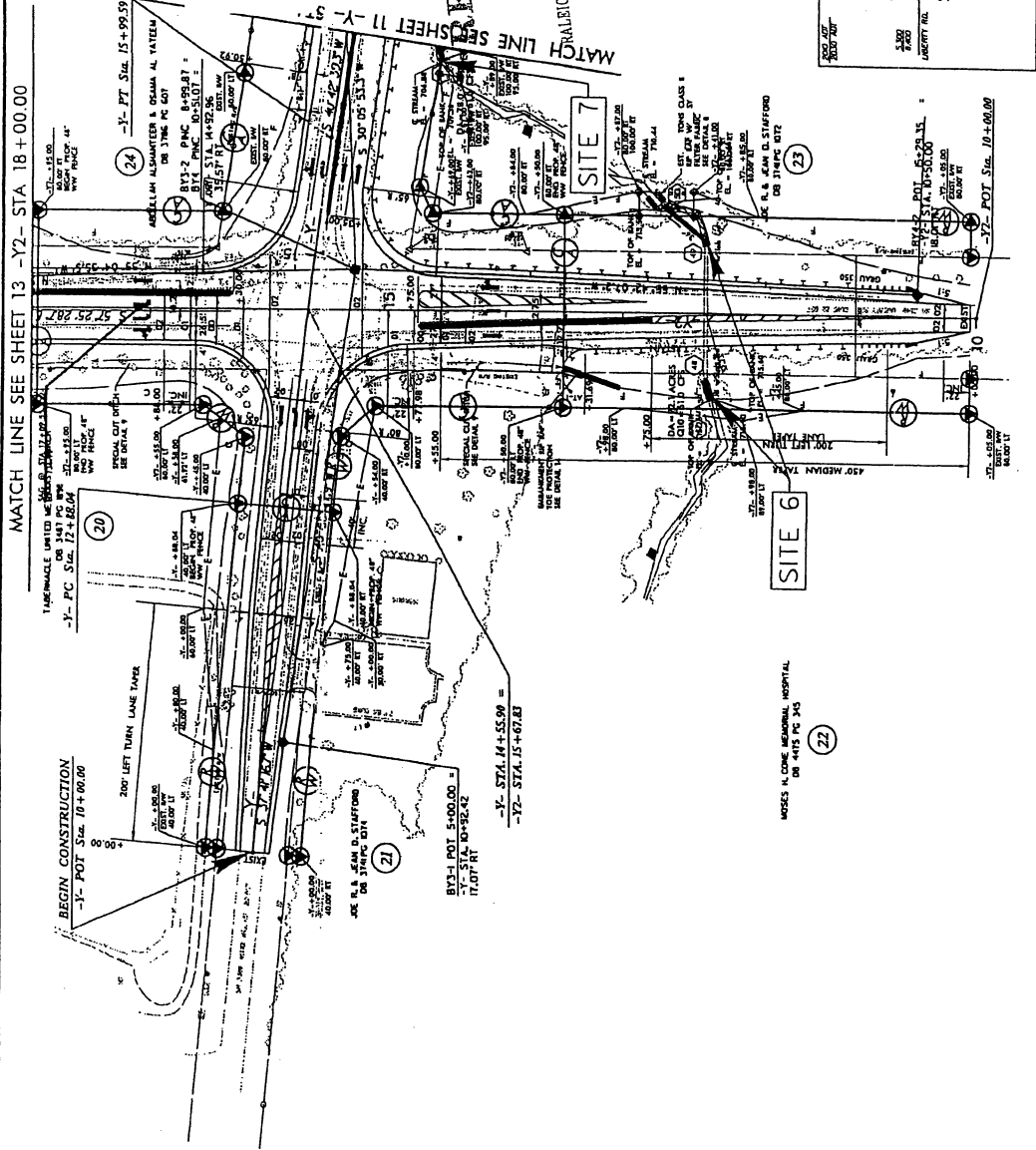
DATE  
NOV 10 2009

INCOMPLETE PLANS  
PRELIMINARY PLANS  
FOR THE STATE OF NORTH CAROLINA  
CONSTRUCTION  
Sheet 25 of 30

Action Id: 2009-01927  
Applicant: NCDOT  
Project Name: TIP R-2612A  
Sheet 21 of 27

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NOTES  
1) FOR -Y- PROFILE, SEE SHEET 17  
2) FOR -Y2- PROFILE, SEE SHEET 22  
3) DRIVEWAY RADIARE 10' UNLESS OTHERWISE NOTED

-Y-  
PI = 144,425  
D = 750  
L = 314.55  
R = 5,505.00

REMARKS IMPACTS IN  
SURFACE WATER

8/17/09

DIMENSIONS

1/8/2009  
R:\06\Engineering\Projects\Drawings\2612a\p-2612a-prelim-10.dwg

PROJECT REFERENCE NO.	R-2612A	SHEET NO.	10
ROADWAY DESIGN PROJECT		PROPOSED PROJECT	
INCOMPLETE PLANS PRELIMINARY PLANS DO NOT USE FOR CONSTRUCTION			
Permit Drawing Sheet 36 of 30			

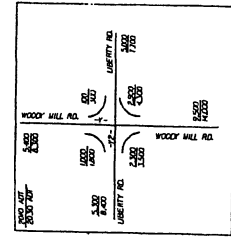
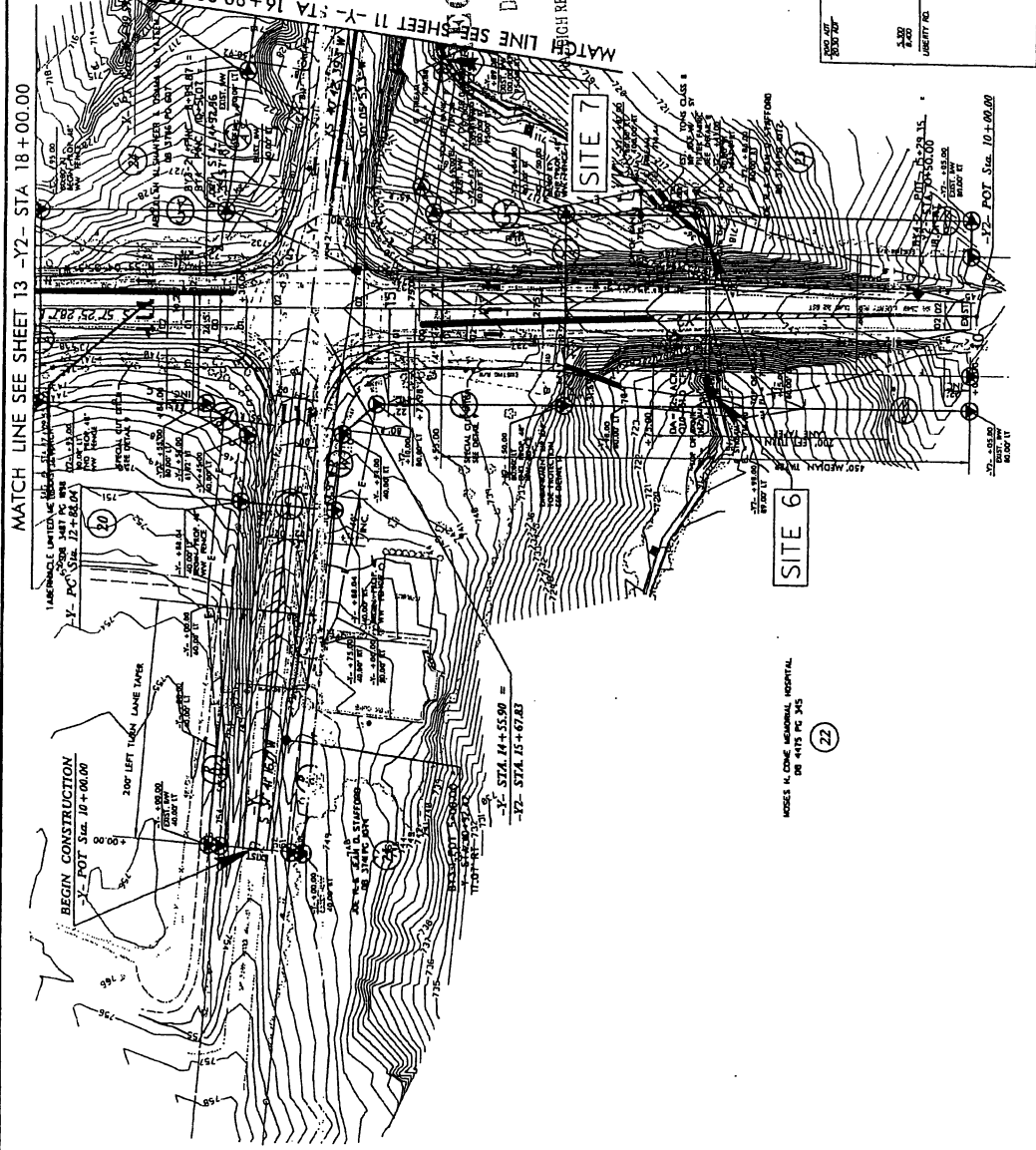
Action Id: 2009-01927  
 Applicant: NCDOT  
 Project Name: TIP R-2612A  
 Sheet 22 of 27

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286



- NOTES
- 1) FOR -X- PROFILE, SEE SHEET 17
  - 2) FOR -Y2- PROFILE, SEE SHEET 22
  - 3) DRIVEWAY RADIARE TO UNLESS OTHERWISE NOTED

-X-  
 P150, 444, 1385  
 Δ = 3' OF 22.5' (RT)  
 D = 514.55'  
 T = 155.81'  
 R = 5,505.00'

DENOTES IMPACTS IN SURFACE WATER

01/17/98

REGIONS

1/2/2008  
 R:\Projects\2009\01927\2612a\permits\plandgn

PROJECT NUMBER AND SHEET NO.	10
DATE	10
DESIGNER	HYDRAULICS ENGINEER
CHECKED BY	
INCOMPLETE PLANS	
PRELIMINARY PLANS	
PERMIT DRAWING	30
SHEET 27 OF	30

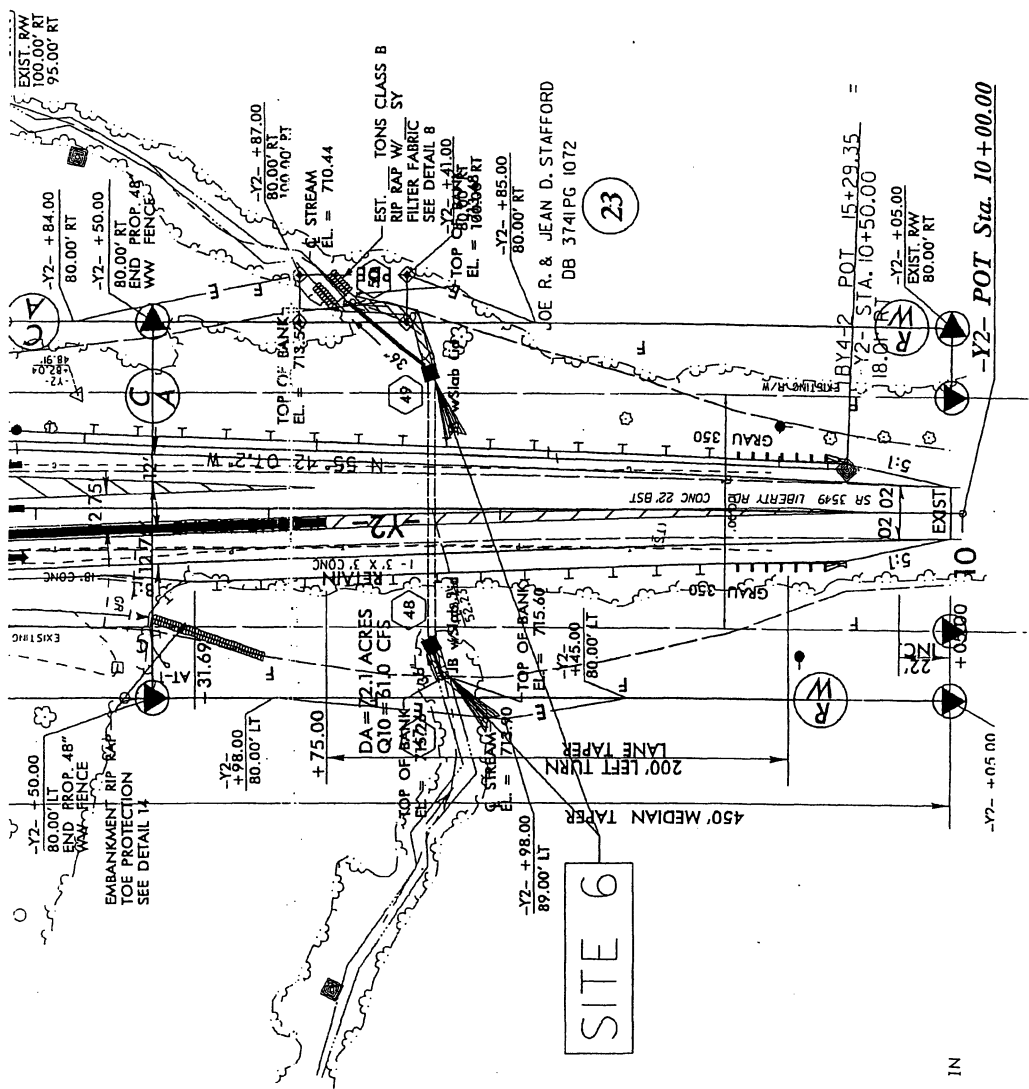
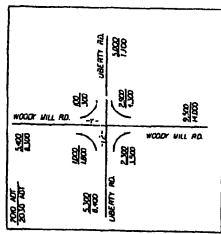
Action Id: 2009-01927  
 Applicant: NCDOT  
 Project Name: TIP R-2612A  
 Sheet 23 of 27

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RALEIGH REGULATORY FIELD OFFICE

287



**SITE 6**

DENOTES IMPACTS IN SURFACE WATER

- NOTES**
- 1) FOR -Y- PROFILE, SEE SHEET 17
  - 2) FOR -Y2- PROFILE, SEE SHEET 22
  - 3) DRIVEWAY RADII ARE 10' UNLESS OTHERWISE NOTED

PROJECT: BRUNNEN RD	SHEET NO.: 10
8-2612A	
HYDRAULICS	
ENGINEER	
INCOMPLETE PLANS	
PRELIMINARY PLANS	
NO USE FOR THE CONTRACT	
Permit Drawing	Sheet 28 of 30

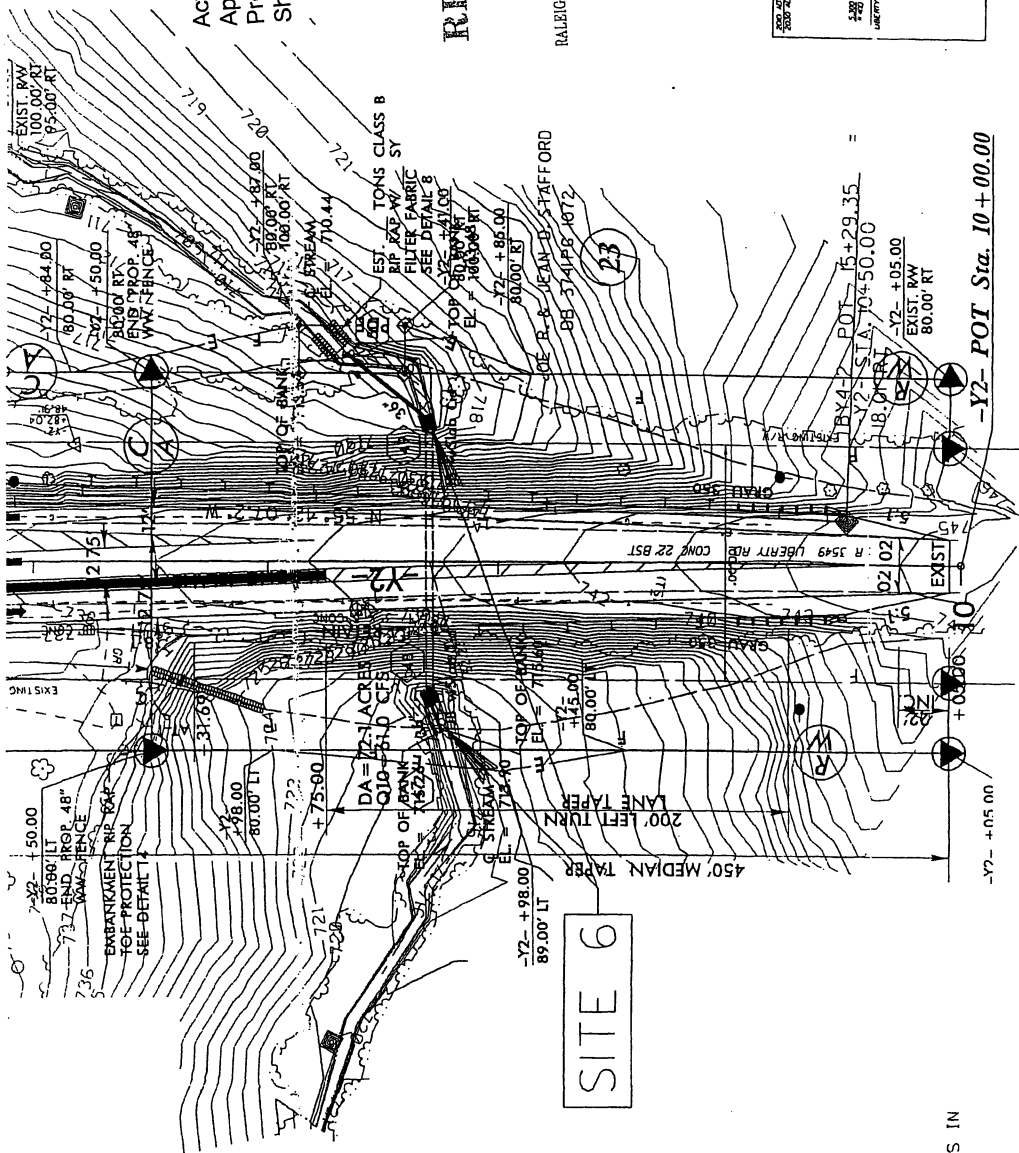
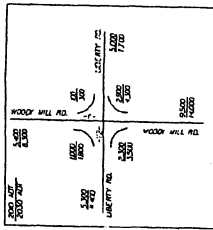
Action Id: 2009-01927  
 Applicant: NCDOT  
 Project Name: TIP R-2612A  
 Sheet 24 of 27

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RALEIGH REGULATORY FIELD OFFICE

288



SITE 6

DENOTES IMPACTS IN SURFACE WATER

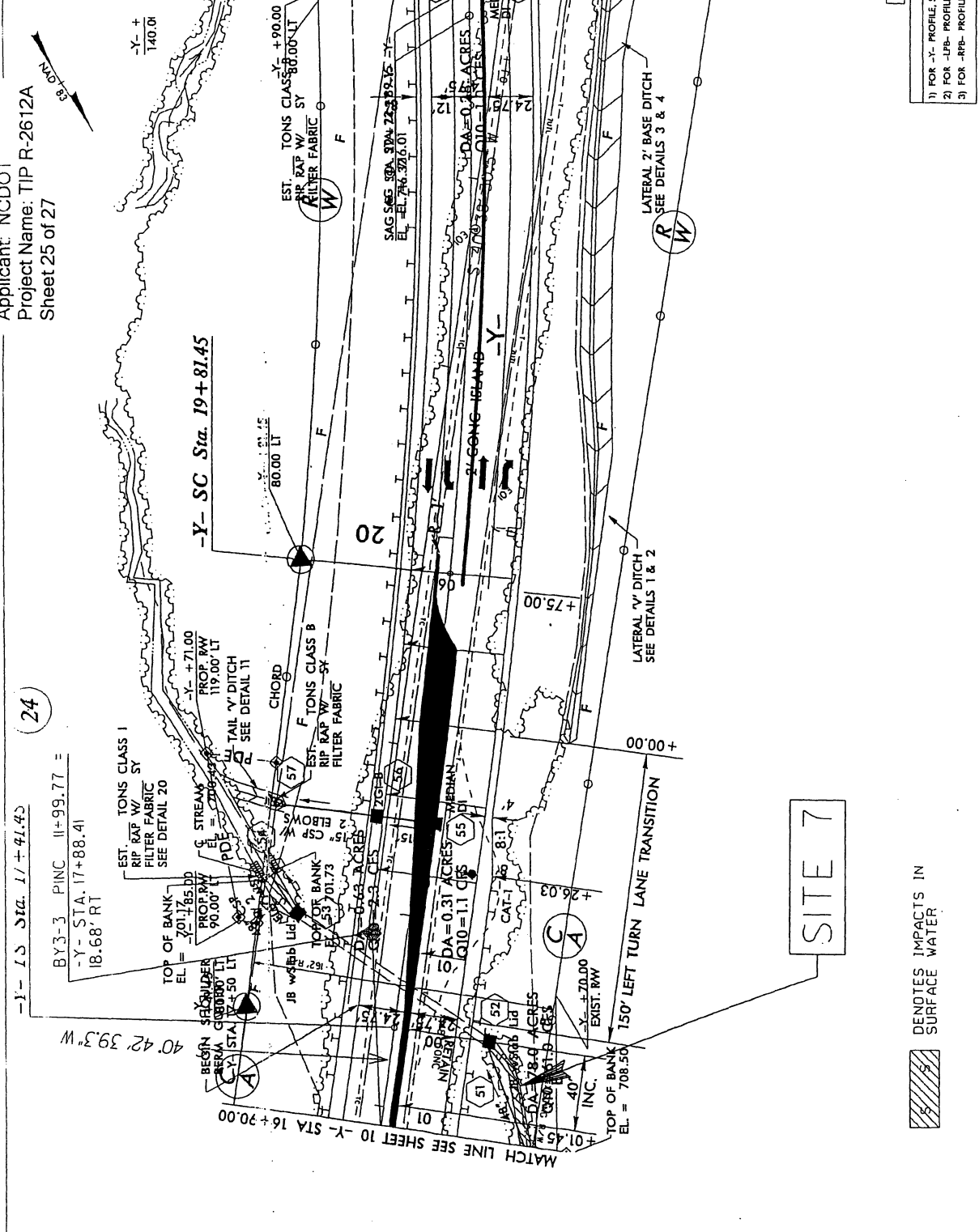
- NOTES
- 1) FOR -Y- PROFILE, SEE SHEET 17
  - 2) FOR -Y2- PROFILE, SEE SHEET 22
  - 3) DRIVEWAY RADII ARE 10' UNLESS OTHERWISE NOTED



Action Id: 2005-0192;  
Applicant: NCDOT  
Project Name: TIP R-2612A  
Sheet 25 of 27

PROJECT RESUB NO.	11
PROJECT NO.	E-2172A
DESIGNER	WYATT ENGINEERS
INCOMPLETE PLANS INDICATED BY THE PRELIMINARY PLANS NO PART SHALL BE CONSTRUCTED	

Permit Drawing 20



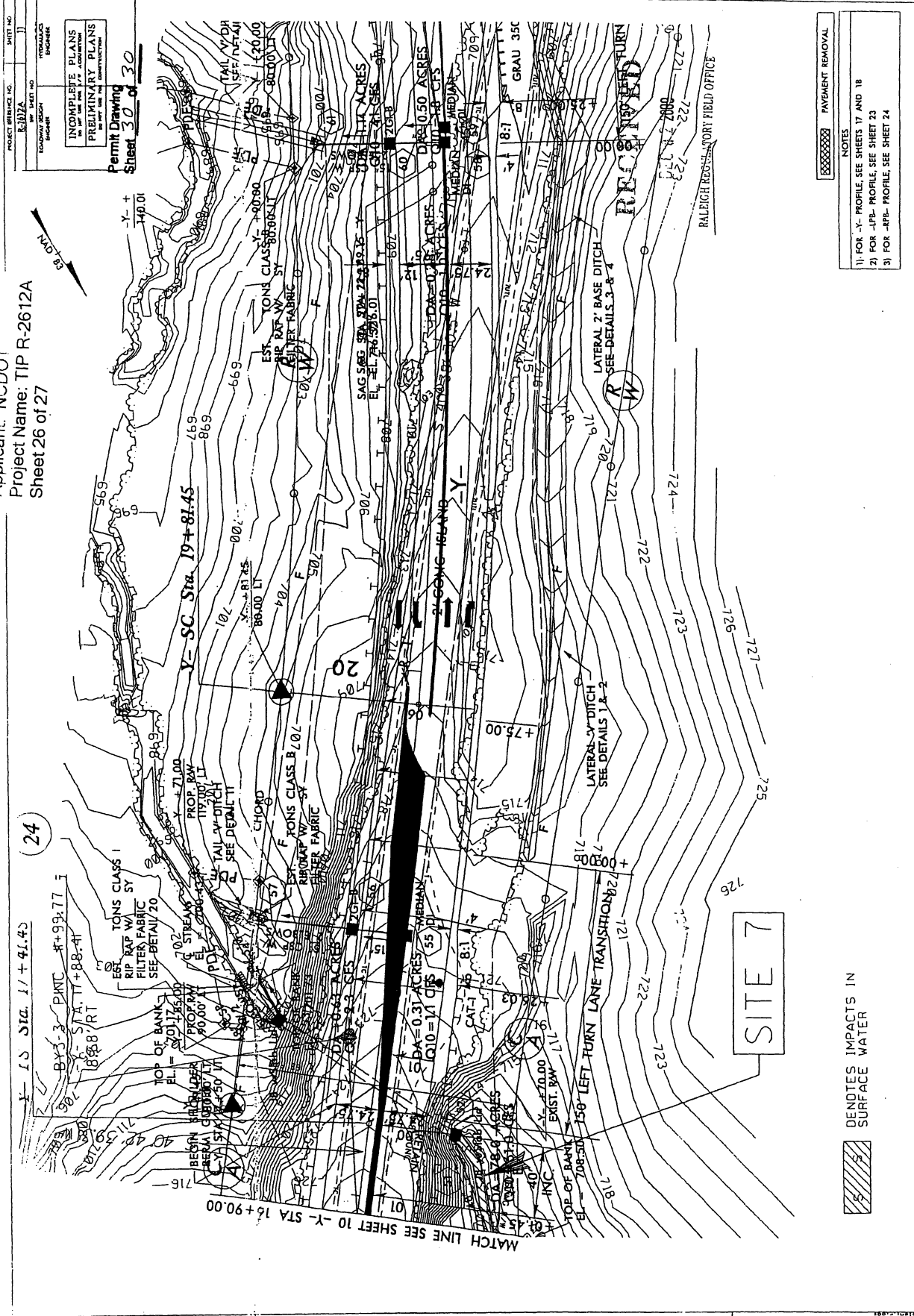
SITE 7

DENOTES IMPACTS IN  
SURFACE WATER

- NOTES
- 1) FOR -Y- PROFILE, SEE SHEETS 17 AND 18
  - 2) FOR -LPH- PROFILE, SEE SHEET 23
  - 3) FOR -RPH- PROFILE, SEE SHEET 24

052008 - DESIGN REVISION - REMOVED ALIGNMENT - RPA - ADDED ALIGNMENT - LPH - AND ADJUSTED THE HORIZONTAL AND VERTICAL ALIGNMENTS FOR  
 RPH - TO ACCOMMODATE - LPH - SCL  
 1/13/2009  
 NCDOT Engineering Permit Drawings - 2612a - permit - lph - scl

PROJECT NO. 2006-01927  
Applicant: NCDOT  
Project Name: TIP R-2612A  
Sheet 26 of 27



PROJECT REFERENCE NO.	2006-01927
SHEET NO.	26
TOTAL SHEETS	27
DATE	11/14/06
BY	JL
CHECKED	ML
INCOMPLETE PLANS	NO
PRELIMINARY PLANS	NO
DATE FOR USE	11/14/06
CONSTRUCTION	NO

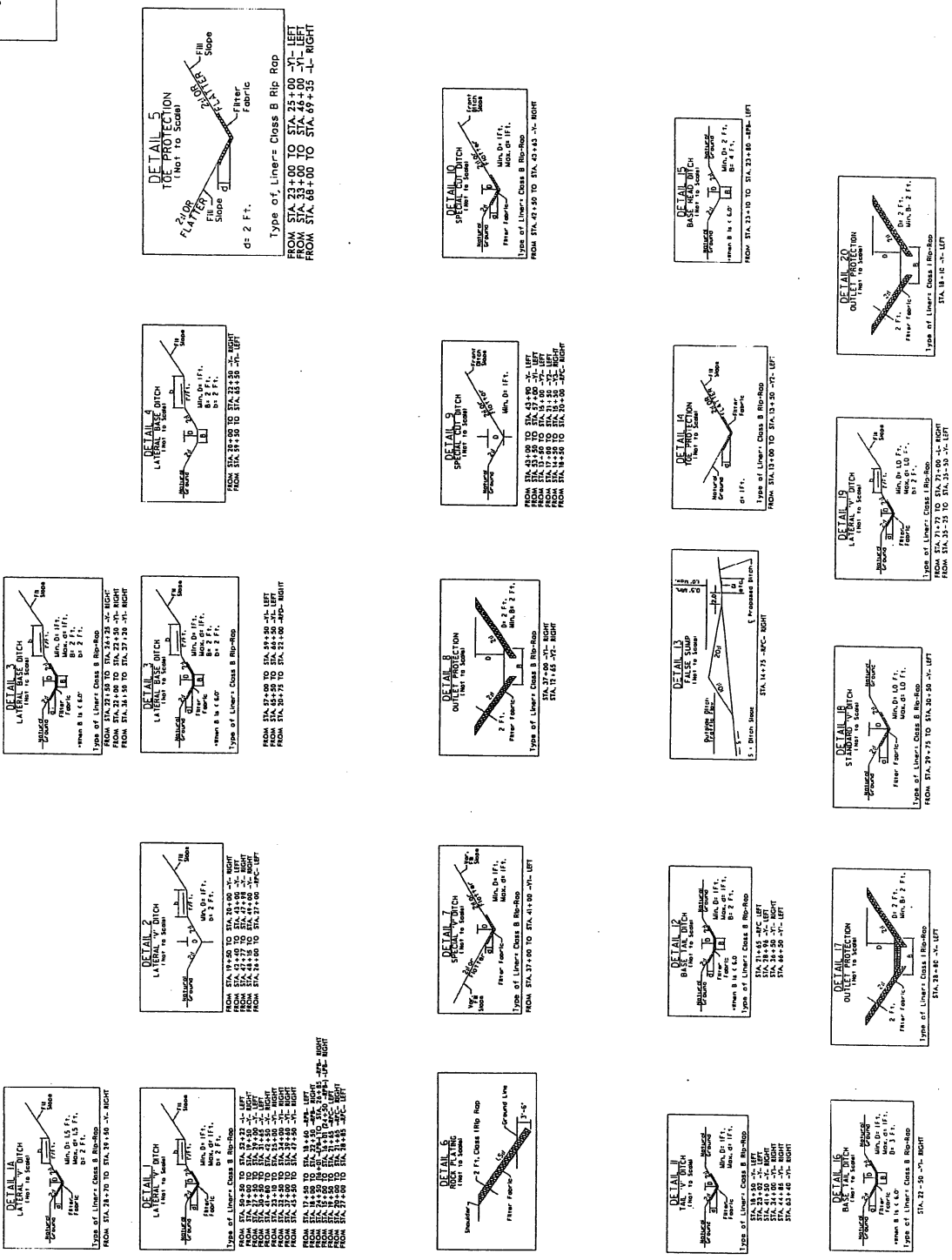
Permit Drawing  
Sheet 30 of 30

- NOTES
- 1) FOR -Y- PROFILE, SEE SHEETS 17 AND 18
  - 2) FOR -FP- PROFILE, SEE SHEET 23
  - 3) FOR -RP- PROFILE, SEE SHEET 24
- PAYMENT REMOVAL

052008 - DESIGN REVISION, REMOVED ALIGNMENT -FP-, ADJUSTED THE HORIZONTAL AND VERTICAL ALIGNMENTS FOR  
FP- TO ACCOMMODATE -FP- SCL  
11/14/06  
ML

Action Id: 2009-01927  
 Applicant: NCDOT  
 Project Name: TIP R-2612A  
 Sheet 27 of 27

PROJECT ENGINEER, INC.	DATE: 1/17
ROADWAY DESIGN ENGINEER	2/1
ROADWAY DESIGN ENGINEER	ROADWAY DESIGN ENGINEER
Permit Plan 31A	



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