




STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION

MICHAEL F. EASLEY
GOVERNOR

LYNDO TIPPETT
SECRETARY

September 3, 2004

MEMORANDUM TO: Mr. Terry R. Gibson, PE
Division 6 Engineer

FROM: Philip S. Harris, III, P.E., CPM, Manager 
Office of the Natural Environment
Project Development and
Environmental Analysis Branch

SUBJECT: Robeson County, US 74 from Maxton Bypass in Maxton to
NC 41 in Lumberton; State Work Order Number 6.469012T;
T.I.P. No. R-0513

Attached is the U. S. Army Corps of Engineers 404 Individual Permit and the Division of Water Quality 401 Water Quality Certification for the above referenced project. All environmental permits have been received for the construction of this project.

PSH/mka

Attachment

cc: Mr. Art McMillan, P.E.
Mr. Jay Bennett, P.E.
Mr. David Chang, P.E.
Mr. Randy Garris, P.E.
Mr. Greg Perfetti, P.E.
Mr. Mark Staley
Mr. Omar Sultan
Mr. John F. Sullivan, FHWA
Mr. Jim Rerko, Division 6 DEO

PROJECT COMMITMENTS

**US 74 from Maxton Bypass in Maxton
To NC 41 In Lumberton, Robeson County
State Project Nos. 6.469002T, 6.469012T
WBS Nos. 34336.3.4, 34336.3.8
TIP Project No. R-0513**

Compliance is required with all conditions of Individual Permit No. 200300999 issued by the U.S. Army Corps of Engineers (USACOE). This includes the General Conditions listed on pages 1 and 2 of the permit, as well as all Special Conditions (4 pages). Compliance is also required with all conditions of 401 Water Quality Certification No. 3468 issued by the N.C. Division of Water Quality. In addition to these conditions, the following special commitments have been agreed to by the NCDOT.

Current status, changes, or additions to the project commitments as shown in the environmental documents for the project are printed in *italics*.

Conditions Developed Through Project Development

Division 6 Construction

The NCDOT will follow the HQW/Sensitive Watershed Guidelines for R-0513A.

Erosion control measures were designed to meet the requirements due to the water quality classification for the applicable section of the Lumber River.

Conditions Developed Through Permitting

As mentioned above, all conditions of the USACOE Permit and Water Quality Certification must be met. Highlighted below are conditions that require action before construction can commence:

Design

USACOE permit Special Condition 1 requires written verification that the permit drawings match the construction plans before any active construction in waters of the United States, including wetlands.

Division 6

USACOE Special Condition 2 requires that the Corps of Engineers representative receive 30 days notice of a preconstruction meeting which must be held prior to any work in waters or wetlands.

USACOE Special Conditions 5 & 6 will affect the borrow and fill activities of the contractor. Water Quality Certification Conditions 1, 2 and 5 also affect waste and borrow activities.

Water Quality Certification Condition 4 requires marking wetland or water boundaries with orange fabric fencing prior to land disturbing activities.

PDEA/Ecosystem Enhancement Program (EEP)

Before construction can commence, EEP must provide written confirmation that they will provide the mitigation, and NCDOT must certify that sufficient funds have been provided to EEP.

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REPLY TO
ATTENTION OF:

**DEPARTMENT OF THE ARMY
WILMINGTON DISTRICT, CORPS OF ENGINEERS
P.O. BOX 1890
WILMINGTON, NORTH CAROLINA 28402-1890**

September 2, 2004

Regulatory Division

Action ID Number 200300999, U.S. 74, Transportation Improvements Project R-513

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

Dear Dr. Thorpe:

In accordance with your written request of May 5, 2004, and the ensuing administrative record, enclosed are two copies of a Department of the Army permit to directly discharge dredged and/or fill material into tributaries to Back Swamp, Double Branch, Jacob Swamp, and Lumber River to facilitate the construction of the U.S. 74, Transportation Improvements Project (TIP) R-513, State Project Number 6.469002T, in Roberson County, North Carolina. The proposed 19.6 mile four-lane, median divided, full control of access highway extends from the existing US 74/74 Business intersection in Maxton (LAT. DD 34.7165; LONG DD 79.3110) and runs on new alignment to just east of the I-95 interchange (LAT. DD 34.5938; LONG DD 79.0842) and continues on the existing US 74 alignment to the intersection with NC 41 (LAT DD 34.5798; LONG DD 79.0483).

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 this office for final authorization. A self-addressed envelope is enclosed for your convenience.

In addition, I have enclosed a copy of the Notification of Administrative Appeal Process and Options and Request for Appeal. Please carefully read Section "B" of this form for information regarding the appeal process for proffered permits.

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. Should you have questions, contact Mr. Richard K. Spencer of my Wilmington Field Office regulatory staff at telephone (910) 251-4172.

Sincerely,

A handwritten signature in cursive script, appearing to read "E. David Franklin".

E. David Franklin.
Chief, NCDOT Team

Enclosures

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

Applicant: NCDOT/TIP R-513 (U.S. 74)	File Number: 2003-0-0999	Date: September 2, 2004
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:
Mr. Richard K. Spencer, Regulatory Project Manager
U.S. Army Corps of Engineers, Wilmington District
Wilmington Regulatory Field Office
69 Darlington Avenue
Wilmington, North Carolina 228402

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

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

<hr/> Signature of appellant or agent.	Date:	Telephone number:
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DIVISION ENGINEER:
Commander
U.S. Army Engineer Division, South Atlantic
60 Forsyth Street, Room 9M15
Atlanta, Georgia 30303-3490



Cashin

North Carolina Department of Environment and Natural Resources
Division of Water Quality

Michael F. Easley, Governor

RECEIVED
AUG 11 2004
DIVISION OF HIGHWAYS
PDEA OFFICE OF NATURAL ENVIRONMENT
William G. Ross, Jr., Secretary
Alan W. Klimek, P.E., Director

August 5, 2004

Mr. Gregory J. Thorpe, Ph.D., Environmental Director
NCDOT Planning and Environmental Branch
1548 Mail Service Center
Raleigh, NC, 27699-1548

Dear Dr. Thorpe:

Re: Water Quality Certification Pursuant to §401 of the Federal Clean Water Act,
Maxton Bypass, from existing US 74 Business Bypass in Maxton to just east of the I-95 Interchange
to the intersection with NC 41, Robeson County.
WBS Element 34336.1.5; State Project No. 6.469002T
TIP No. R-513
DWQ Project No. 040734

Attached hereto is a copy of Certification No. 3468 issued to The North Carolina Department of
Transportation dated August 5, 2004.

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

Sincerely,

Alan W. Klimek, P.E.

Attachments

cc: Wilmington District Corps of Engineers
Richard Spencer, USACE Wilmington Field Office
Ken Averitte, NCDWQ Fayetteville Regional Office
Christopher Militscher, US Environmental Protection Agency – Region IV
William D. Gilmore, P.E., Transition Manager, NC DENR Division of Ecosystem Enhancement
T. R. Gibson, PE, Division Engineer, NCDOT Division 6
Central Files
File Copy



NORTH CAROLINA 401 WATER QUALITY CERTIFICATION

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. This Certification authorizes the NCDOT to incur the following permanent impacts:

- 54.12 acres of jurisdictional wetlands;
- 3.48 ac of fill in surface waters; and
- 8,192 linear feet of jurisdictional stream loss;

in Robeson County.

Site R-513A	Station Number	Wetlands Impacts (ac)	Drainage Impacts (ac)
1	13+00-16+60	0.37	0.87
3	33+38-33+75	1.07	0
4	12 + 78 Rp 'B'	0.03	0
6	82+00-85+50	8.54	
Site R-513BA			
1	85+80-87+14.77	2.19	0
1A	14+19.67-RPB-144+ 40 -Y1 -	0.04	0
2	12+86-SR1 -	0.004	0
7	140+30-140+60	0.12	0
8	145+58-148+15	2.58	0
Site R-513BB			
1	160+92-161+44	0.334	0
2	18+99-19+52	0.252	0
3	170+05-172+16	3.697	0
4	188+99-191+93	3.018	0
5	194+51-195+93	1.551	0
7	214+49-215+89	1.843	0
8	217+06-223+00	8.531	0
Site R-513C			
Station Number	Wetland Impacts (ac)	Drainage Impacts (ac)	
1	250+34-253+07	8.47	0
2	282+14-282+72 12+23-14+03-Y8-	3.62	0
2A	6+50-RP"D"-	0.13	0
3	285+59-287+09 15+85-18+27-Y8-	4.25	0
4	32+42-33+42-Y3-	1.17	0
5	51+63-53+56-Y8-	1.42	0
7	272+90 LT&RT	0.01	0
TOTAL		54.12 acres	

Site R-513A	Station Number	Stream Name	Impact (feet)
1	13+00-16+60	UT to Lumber River	1715
5	12+42-Y2	Double Branch Canal	164
Site R-513BA	Station Number	Stream Name	Impact (feet)
1A	14+19-RPB-14+40-Y1-	Double Branch Canal	640
2	12+86-SR1-	Double Branch Canal	135
4	120+86	Back Swamp Canal	1132
5	128+01	UT to Back Swamp Canal	341
6	134+00-136+00	UT to Back Swamp Canal	338
Site R-513BB	Station Number	Stream Name	Impact (feet)
6	200+21	UT to Little Back Swamp	246
9	229+60	UT to Back Swamp	207
Site R-513C	Station Number	Stream Name	Impact (feet)
1A	252+00-257+00	UT to Back Swamp	2217
3	285+59-287+09	Jacob Swamp	827
7	272+90 LT&RT	UT to Back Swamp	1056
8	290+85	UT to Jacob Swamp	413
9	308+00	UT to Little Jacob Swamp	230
TOTAL			8,192 feet

The US 74 relocation from Maxton bypass in Maxton to NC 41 in Lumberton, Robeson County, shall be constructed pursuant to the Application dated May 5, 2004 (complete application received July 28, 2004).

The Application provides adequate assurance that the discharge of fill material into the waters of the state 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. All work authorized by this Certification must be done in strict compliance with the plans attached to the Application. If this project changes, incurring additional impacts to streams or wetlands, you are required to notify the DWQ *in writing*, and you may be required to submit a new application. 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, Non-discharge and Water Supply watershed regulations. This Certification shall expire three (3) years from the date of the cover letter from DWQ or on the same day as the expiration date of the corresponding US Army Corps of Engineers Permit, whichever is later.

Condition(s) of Certification:

1. 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. Page 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. Any reclamation measures and implementation must comply with the reclamation in accordance with the requirements of the Sedimentation Pollution Control Act.
2. No waste, spoil, solids, or fill of any kind shall occur in wetlands, waters, or riparian areas beyond the footprint of the impacts depicted in the Application. All construction activities shall be performed so that no violations of state water quality standards, statutes, or rules occur.
3. Sediment and erosion control measures shall not be placed in wetlands or waters to the maximum extent practicable. If placement of sediment and erosion control devices in wetlands and waters is unavoidable, they shall be removed and the natural grade restored within 30 days after the project has been released.
4. The outside buffer, wetland or water boundary located within the construction corridor approved by this authorization shall be clearly marked by orange fabric fencing prior to any land disturbing activities. Impacts to areas within the fencing are prohibited unless otherwise authorized by this certification.
5. NCDOT and its contractors and/or agents shall not excavate, fill, or perform mechanized land clearing at any time in the construction or maintenance of this project within waters and/or wetlands, except as authorized by this Certification, or any modification to this Certification. There shall be no excavation from, or waste disposal into, jurisdictional wetlands or waters associated with this Certification without appropriate modification. If this occurs, compensatory mitigation will be required since it is a direct impact from road construction activities.
6. Excavation of stream crossings should be conducted in the dry unless demonstrated by the applicant or its authorized agent to be unfeasible and approved by the DWQ. Sandbags, cofferdams, flexible pipe, or other diversion structures should be used to minimize excavation in flowing water.

7. Placement of culverts and other structures in waters, streams, and wetlands shall be placed below the elevation of the streambed to allow low flow passage of water and aquatic life unless it is otherwise approved by the DWQ that providing passage would be impractical. 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 shall be maintained if requested in writing by DWQ.
8. The natural dimension, pattern and profile of the streams above and below the approved crossings shall not be modified by widening the stream channel or changing the depth of the stream, except as approved by this certification.
9. The removal of vegetation in riparian areas should be minimized. NCDOT is encouraged to use existing on-site vegetation and materials for stream bank stabilization and to minimize the use of rip rap. Riprap shall not be placed in the stream bottom.
10. Using native trees and shrubs, riparian vegetation must be re-established within the construction limits of the project by the end of the growing season following completion of construction.
11. Heavy equipment should be operated from the stream bank rather than in the stream channel unless demonstrated by the applicant or its authorized agent to be unfeasible and approved by the DWQ. All mechanized equipment operated near surface waters should be inspected and maintained regularly to prevent contamination of stream waters from fuels, lubricants, hydraulic fluids or other toxic substances.
12. Live or fresh concrete shall not come into contact with waters of the state until the concrete has hardened. Water that inadvertently contacts uncured concrete should not be discharged to surface waters.
13. Discharging hydroseeding mixtures and washing out hydroseeders and other equipment in or adjacent to surface waters is strictly prohibited.
14. NCDOT shall require its contractors (and/or agents) to comply with all of the terms of this Certification, and shall provide each of its contractors (and/or agents) a copy of this Certification.

15. *Mitigation:*

Wetland Mitigation

Compensatory mitigation for 54.12 acres of wetland impacts shall be provided through the following schemes:

- The NCDENR Ecosystem Enhancement Program (EEP) has agreed to provide compensatory mitigation for 54.12 acres of wetland impacts incurred for construction of R-513. DWQ acknowledges that the EEP has agreed to provide compensation for the subject project (reference EEP letter May 20, 2004, received by DWQ July 28, 2004).

Stream Mitigation

Compensatory mitigation for 8,192 feet of stream impacts shall be provided through the following schemes:

- The NCDENR Ecosystem Enhancement Program has agreed to provide compensatory mitigation for 8,192 feet of stream impacts incurred for construction of R-513 (reference EEP letter May 20, 2004). EEP shall provide the compensatory mitigation in accordance with the Tri-Party MOA signed on June 12, 2002 and the Dual-Party MOA signed on July 22, 2003.

16. Upon completion of the project, the NCDOT shall complete and return the enclosed "Certification of Completion Form" to notify DWQ when all work included in the 401 Certification has been completed. The responsible party shall complete the attached form and return it to the Transportation Permitting Unit of the Division of Water Quality upon completion of the project.

NCDOT 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 law 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 to include conditions appropriate to assure compliance with such standards and requirements in accordance with 15A NCAC 2H .0507(d). Any new or revised conditions shall be provided to NCDOT in writing, shall be provided to the United States Army Corps of Engineers for reference in any permit issued pursuant to Section 404 of the Clean Water Act, and shall also become conditions of the 404 Permit for the project.

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 Permit. This Certification shall expire upon the expiration of the 404 Permit.

NCDOT TIP No. R-513

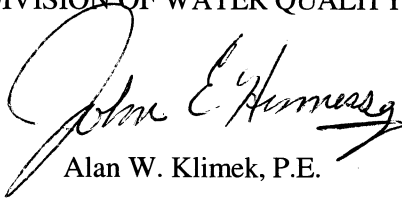
Page 6

August 5, 2004

If you do not accept any of the conditions of this certification, you may ask for an adjudicatory hearing. You must act within 60 days of the date that you receive this letter. To ask for a hearing, send a written petition that conforms to Chapter 150B of the North Carolina General Statutes to the Office of Administrative Hearings, 6714 Mail Service Center, Raleigh, N.C. 27699-6714. This Certification and its conditions are final and binding unless you ask for a hearing.

This the 5th day of August 2004

DIVISION OF WATER QUALITY

A handwritten signature in black ink, appearing to read "Alan W. Klimek". The signature is stylized and cursive, written over the printed name below it.

Alan W. Klimek, P.E.

WQC No. 3468

DWQ Project No.: 040734

County: Robeson

Applicant: NCDOT

Project Name: R-513 Maxton Bypass

Date of Issuance of 401 Water Quality Certification: August 5, 2004

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 Transportation Permitting 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, 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, the approved plans and specifications, and other supporting materials.

Signature: _____ Date: _____

Engineer's Certification

_____ Partial _____ Final

I, _____, as a duly registered Professional Engineer 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, the approved plans and specifications, and other supporting materials.

Signature _____ Registration No. _____

Date _____

Cashin



REPLY TO
ATTENTION OF:

DEPARTMENT OF THE ARMY
WILMINGTON DISTRICT, CORPS OF ENGINEERS
P.O. BOX 1890
WILMINGTON, NORTH CAROLINA 28402-1890

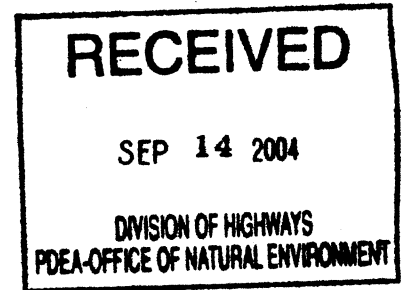
September 10, 2004



Regulatory Division

Action ID. 200300999

Dr. Gregory J. Thorpe, Ph.D.
Environmental Management Director, PDEA
N.C. Department of Transportation
1548 Mail Service Center
Raleigh, NC 27699-1548



Dear Dr. Thorpe:

In accordance with the written request of May 5, 2004, and the ensuing administrative record, enclosed is a permit to directly discharge dredged and/or fill material into tributaries to Back Swamp, Double Branch, Jacob Swamp, and Lumber River to facilitate the construction of the U.S. 74, Transportation Improvements Project (TIP) R-513, State Project Number 6.469002T, in Roberson County, North Carolina. The proposed 19.6 mile four-lane, median divided, full control of access highway extends from the existing US 74/74 Business intersection in Maxton (LAT. DD 34.7165; LONG DD 79.3110) and runs on new alignment to just east of the I-95 interchange (LAT. DD 34.5938; LONG DD 79.0842) and continues on the existing US 74 alignment to the intersection with NC 41 (LAT DD 34.5798; LONG DD 79.0483).

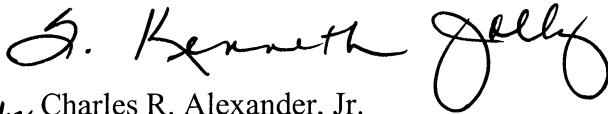
If any change in the authorized work is required because of unforeseen or altered conditions or for any other reason, the plans revised to show the change must be sent promptly to this office. Such action is necessary, as revised plans must be reviewed and the permit modified.

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 general conditions require that:

- a. You must complete construction before December 31, 2007.
- b. You must notify this office in advance as to when you intend to commence and complete work.
- c. 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.

Should you have questions, contact Mr. Richard K. Spencer of my Wilmington Field Office regulatory staff at telephone (910) 251-4172.

Sincerely,


for Charles R. Alexander, Jr.
Colonel, U.S. Army
District Engineer

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, MD 20910-3282

Copies Furnished with special conditions and plans:

Mr. Pete Benjamin, Field Supervisor
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, NOAA
Pivers Island
Beaufort, North Carolina 28516

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

•
,
Mr. Ronald Mikulak, Chief
Wetlands Section - Region IV
Water Management Division
U.S. Environmental Protection Agency
Atlanta Federal Center
61 Forsyth Street, SW
Atlanta, Georgia 30303

Mr. Doug Huggett
Division of Coastal Management
North Carolina Department of
Environment and Natural Resources
1638 Mail Service Center
Raleigh, North Carolina 27699-1638

Mr. William D. Gilmore, P.E.
EEP Transition Manager
Ecosystem Enhancement Program
1652 Mail Service Center
Raleigh, NC 27699-1652

DEPARTMENT OF THE ARMY PERMIT

RECEIVED

SEP 08 2004

REGULATORY
WILM. FLD. OFC.

NC Department of Transportation

Permittee _____

200300999

Permit No. _____

USAED, Wilmington

Issuing Office _____

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:

Directly discharge dredged and/or fill material into tributaries to Back Swamp, Double Branch, Jacob Swamp, and Lumber River to facilitate the construction of the U.S. 74, Transportation Improvements Project (TIP) R-513, State Project Number 6.469002T. This authorization will also include the temporary construction of diversion structures consisting of impervious dikes and a fabric-lined diversion channel at Site #2, Section BA.

Project Location: In the Lumber River basin, beginning at the existing US 74/74 Business intersection in Maxton (LAT. DD 34.7165; LONG DD 79.3110) and runs on new alignment to just east of the I-95 interchange (LAT. DD 34.5938; LONG DD 79.0842) and continues on the existing US 74 alignment to the intersection with NC 41 (LAT DD 34.5798; LONG DD 79.0483), Roberson County, North Carolina.

Permit Conditions:

General Conditions:

1. The time limit for completing the work authorized ends on December 31, 2007. 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.

- 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.

See enclosed sheet.

Special Conditions:

- 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.



North Carolina Department of Environment and Natural Resources
Division of Water Quality

Michael F. Easley, Governor

William G. Ross, Jr., Secretary
Alan W. Klimek, P.E., Director

August 5, 2004

RECEIVED

AUG 10 2004

REGULATORY

Mr. Gregory J. Thorpe, Ph.D., Environmental Director
NCDOT Planning and Environmental Branch
1548 Mail Service Center
Raleigh, NC, 27699-1548

Dear Dr. Thorpe:

Re: Water Quality Certification Pursuant to §401 of the Federal Clean Water Act,
Maxton Bypass, from existing US 74 Business Bypass in Maxton to just east of the I-95 Interchange
to the intersection with NC 41, Robeson County.
WBS Element 34336.1.5; State Project No. 6.469002T
TIP No. R-513
DWQ Project No. 040734

Attached hereto is a copy of Certification No. 3468 issued to The North Carolina Department of
Transportation dated August 5, 2004.

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

Sincerely,

Alan W. Klimek, P.E.

Attachments

cc: Wilmington District Corps of Engineers
Richard Spencer, USACE Wilmington Field Office
Ken Averitte, NCDWQ Fayetteville Regional Office
Christopher Militsher, US Environmental Protection Agency – Region IV
William D. Gilmore, P.E., Transition Manager, NC DENR Division of Ecosystem Enhancement
T. R. Gibson, PE, Division Engineer, NCDOT Division 6
Central Files
File Copy

NORTH CAROLINA 401 WATER QUALITY CERTIFICATION

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. This Certification authorizes the NCDOT to incur the following permanent impacts:

- 54.12 acres of jurisdictional wetlands;
- 3.48 ac of fill in surface waters; and
- 8,192 linear feet of jurisdictional stream loss;

in Robeson County.

Site R-513A	Station Number	Wetlands Impacts (ac)	Drainage Impacts (ac)
1	13+00-16+60	0.37	0.87
3	33+38-33+75	1.07	0
4	12 + 78 Rp 'B'	0.03	0
6	82+00-85+50	8.54	
Site R-513BA			
1	85+80-87+14.77	2.19	0
1A	14+19.67-RPB-144+ 40 -Y1 -	0.04	0
2	12+86-SR1 -	0.004	0
7	140+30-140+60	0.12	0
8	145+58-148+15	2.58	0
Site R-513BB			
1	160+92-161+44	0.334	0
2	18+99-19+52	0.252	0
3	170+05-172+16	3.697	0
4	188+99-191+93	3.018	0
5	194+51-195+93	1.551	0
7	214+49-215+89	1.843	0
8	217+06-223+00	8.531	0
Site R-513C			
	Station Number	Wetland Impacts (ac)	Drainage Impacts (ac)
1	250+34-253+07	8.47	0
2	282+14-282+72 12+23-14+03-Y8-	3.62	0
2A	6+50-RP"D"-	0.13	0
3	285+59-287+09 15+85-18+27-Y8-	4.25	0
4	32+42-33+42-Y3-	1.17	0
5	51+63-53+56-Y8-	1.42	0
7	272+90 LT&RT	0.01	0
TOTAL		54.12 acres	

Site R-513A	Station Number	Stream Name	Impact (feet)
1	13+00-16+60	UT to Lumber River	1715
5	12+42-Y2	Double Branch Canal	164
Site R-513BA	Station Number	Stream Name	Impact (feet)
1A	14+19-RPB-14+40-Y1-	Double Branch Canal	640
2	12+86-SR1-	Double Branch Canal	135
4	120+86	Back Swamp Canal	1132
5	128+01	UT to Back Swamp Canal	341
6	134+00-136+00	UT to Back Swamp Canal	338
Site R-513BB	Station Number	Stream Name	Impact (feet)
6	200+21	UT to Little Back Swamp	246
9	229+60	UT to Back Swamp	207
Site R-513C	Station Number	Stream Name	Impact (feet)
1A	252+00-257+00	UT to Back Swamp	2217
3	285+59-287+09	Jacob Swamp	827
7	272+90 LT&RT	UT to Back Swamp	1056
8	290+85	UT to Jacob Swamp	413
9	308+00	UT to Little Jacob Swamp	230
TOTAL			8,192 feet

The US 74 relocation from Maxton bypass in Maxton to NC 41 in Lumberton, Robeson County, shall be constructed pursuant to the Application dated May 5, 2004 (complete application received July 28, 2004).

The Application provides adequate assurance that the discharge of fill material into the waters of the state 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. All work authorized by this Certification must be done in strict compliance with the plans attached to the Application. If this project changes, incurring additional impacts to streams or wetlands, you are required to notify the DWQ *in writing*, and you may be required to submit a new application. 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, Non-discharge and Water Supply watershed regulations. This Certification shall expire three (3) years from the date of the cover letter from DWQ or on the same day as the expiration date of the corresponding US Army Corps of Engineers Permit, whichever is later.

Condition(s) of Certification:

1. 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. Page 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. Any reclamation measures and implementation must comply with the reclamation in accordance with the requirements of the Sedimentation Pollution Control Act.
2. No waste, spoil, solids, or fill of any kind shall occur in wetlands, waters, or riparian areas beyond the footprint of the impacts depicted in the Application. All construction activities shall be performed so that no violations of state water quality standards, statutes, or rules occur.
3. Sediment and erosion control measures shall not be placed in wetlands or waters to the maximum extent practicable. If placement of sediment and erosion control devices in wetlands and waters is unavoidable, they shall be removed and the natural grade restored within 30 days after the project has been released.
4. The outside buffer, wetland or water boundary located within the construction corridor approved by this authorization shall be clearly marked by orange fabric fencing prior to any land disturbing activities. Impacts to areas within the fencing are prohibited unless otherwise authorized by this certification.
5. NCDOT and its contractors and/or agents shall not excavate, fill, or perform mechanized land clearing at any time in the construction or maintenance of this project within waters and/or wetlands, except as authorized by this Certification, or any modification to this Certification. There shall be no excavation from, or waste disposal into, jurisdictional wetlands or waters associated with this Certification without appropriate modification. If this occurs, compensatory mitigation will be required since it is a direct impact from road construction activities.
6. Excavation of stream crossings should be conducted in the dry unless demonstrated by the applicant or its authorized agent to be unfeasible and approved by the DWQ. Sandbags, cofferdams, flexible pipe, or other diversion structures should be used to minimize excavation in flowing water.

7. Placement of culverts and other structures in waters, streams, and wetlands shall be placed below the elevation of the streambed to allow low flow passage of water and aquatic life unless it is otherwise approved by the DWQ that providing passage would be impractical. 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 shall be maintained if requested in writing by DWQ.
8. The natural dimension, pattern and profile of the streams above and below the approved crossings shall not be modified by widening the stream channel or changing the depth of the stream, except as approved by this certification.
9. The removal of vegetation in riparian areas should be minimized. NCDOT is encouraged to use existing on-site vegetation and materials for stream bank stabilization and to minimize the use of rip rap. Riprap shall not be placed in the stream bottom.
10. Using native trees and shrubs, riparian vegetation must be re-established within the construction limits of the project by the end of the growing season following completion of construction.
11. Heavy equipment should be operated from the stream bank rather than in the stream channel unless demonstrated by the applicant or its authorized agent to be unfeasible and approved by the DWQ. All mechanized equipment operated near surface waters should be inspected and maintained regularly to prevent contamination of stream waters from fuels, lubricants, hydraulic fluids or other toxic substances.
12. Live or fresh concrete shall not come into contact with waters of the state until the concrete has hardened. Water that inadvertently contacts uncured concrete should not be discharged to surface waters.
13. Discharging hydroseeding mixtures and washing out hydroseeders and other equipment in or adjacent to surface waters is strictly prohibited.
14. NCDOT shall require its contractors (and/or agents) to comply with all of the terms of this Certification, and shall provide each of its contractors (and/or agents) a copy of this Certification.

15. *Mitigation:*

Wetland Mitigation

Compensatory mitigation for 54.12 acres of wetland impacts shall be provided through the following schemes:

- The NCDENR Ecosystem Enhancement Program (EEP) has agreed to provide compensatory mitigation for 54.12 acres of wetland impacts incurred for construction of R-513. DWQ acknowledges that the EEP has agreed to provide compensation for the subject project (reference EEP letter May 20, 2004, received by DWQ July 28, 2004).

Stream Mitigation

Compensatory mitigation for 8,192 feet of stream impacts shall be provided through the following schemes:

- The NCDENR Ecosystem Enhancement Program has agreed to provide compensatory mitigation for 8,192 feet of stream impacts incurred for construction of R-513 (reference EEP letter May 20, 2004). EEP shall provide the compensatory mitigation in accordance with the Tri-Party MOA signed on June 12, 2002 and the Dual-Party MOA signed on July 22, 2003.

16. Upon completion of the project, the NCDOT shall complete and return the enclosed "Certification of Completion Form" to notify DWQ when all work included in the 401 Certification has been completed. The responsible party shall complete the attached form and return it to the Transportation Permitting Unit of the Division of Water Quality upon completion of the project.

NCDOT 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 law 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 to include conditions appropriate to assure compliance with such standards and requirements in accordance with 15A NCAC 2H .0507(d). Any new or revised conditions shall be provided to NCDOT in writing, shall be provided to the United States Army Corps of Engineers for reference in any permit issued pursuant to Section 404 of the Clean Water Act, and shall also become conditions of the 404 Permit for the project.

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 Permit. This Certification shall expire upon the expiration of the 404 Permit.

NCDOT TIP No. R-513

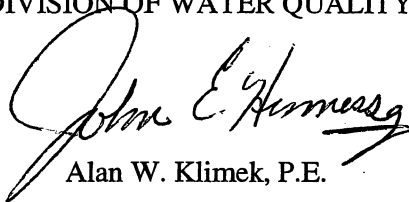
Page 6

August 5, 2004

If you do not accept any of the conditions of this certification, you may ask for an adjudicatory hearing. You must act within 60 days of the date that you receive this letter. To ask for a hearing, send a written petition that conforms to Chapter 150B of the North Carolina General Statutes to the Office of Administrative Hearings, 6714 Mail Service Center, Raleigh, N.C. 27699-6714. This Certification and its conditions are final and binding unless you ask for a hearing.

This the 5th day of August 2004

DIVISION OF WATER QUALITY

A handwritten signature in black ink, appearing to read "Alan W. Klimek", is written over the typed name below.

Alan W. Klimek, P.E.

WQC No. 3468

SPECIAL CONDITIONS (Action ID. 2003-0-0999; NCDOT/TIP R-513)

1. All work authorized by this permit must be preformed in strict compliance with the attached plans, which are a part of this permit. Written verification shall be provided that the final construction drawings comply with the attached permit drawings prior to any active construction in waters of the United States, including wetlands. The permittee shall ensure that the construction design plans for this project do not deviate from the permit plans attached to this authorization. Any deviation in the construction design plans shall be brought to the attention of the Corps of Engineers, Mr. Richard Spencer, Wilmington Regulatory Field Office prior to any active construction in waters or wetlands and any modification to the permit plans must be approved by the Corps of Engineers prior to implementation.
2. The permittee shall schedule a preconstruction meeting between its representatives, the contractor's representatives, and the Corps of Engineers, Mr. Richard Spencer, Wilmington Regulatory Field Office, 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 notify the Corps of Engineers Project Manager a minimum of thirty (30) days in advance of the scheduled meetings in order to provide that individual with ample opportunity to schedule and participate in the required meetings. One copy of the final construction drawings shall be furnished to the Corps of Engineers, Mr. Richard Spencer, Wilmington Regulatory Field Office prior to the pre-construction meeting. Written verification shall be provided to the Corps of Engineers that the final construction drawings comply with the attached permit drawings.
3. 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. Copies of this permit and any modifications authorized by the USACE shall be available for review at the construction site at all times. All violations, including non-compliance of these conditions, of the authorized permit shall be reported to the District Engineer within 24 hours of the violation.
4. Compensatory mitigation for the unavoidable impacts to 54.12 acres of wetland and 8,192 linear feet of stream associated with the proposed project shall be provided by the Ecosystem Enhancement Program (EEP), as outlined in the letter dated July 28, 2004 from William D. Gilmore, EEP Transition Manager. The EEP will provide 541.20 acres of preservation of wetlands (55.3 acres of riverine and 485.9 acres of non-riverine wetlands) and 81,920 linear feet of stream preservation in the Southern Inner Coastal Plain Eco-Region at the Great Coharie Site in Sampson County that has been acquired and protected by the EEP. 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 a minimum of 48.59 acres of restoration of non-riverine wetlands, 5.53 acres of restoration of riverine wetlands and 8,192 linear feet of restoration of warm water stream channel in the Lumber River basin (Hydrologic Cataloging Unit 03040203 by July 22, 2005 and half of the proposed preservation mitigation would be available at that time for mitigation for other project impacts.

Construction within wetlands on the permitted highway project shall begin only after the EEP has provided written confirmation to the District Engineer that the EEP and not the NCDOT is responsible for providing the required mitigation, pursuant to Paragraph VI.B.7 of the MOA. 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.

5. The permittee and its contractors and/or agents shall not excavate, fill, or perform mechanized landclearing at any time in the construction or maintenance of this project within waters and/or wetlands, or cause the degradation of waters and/or wetlands, except as authorized by this permit, or any modification to this permit. There shall be no excavation from, waste disposal into, or degradation of, jurisdictional wetlands or waters associated with this permit without appropriate modification of this permit, including appropriate compensatory mitigation. This prohibition applies to all borrow and fill activities connected with this project.

6. To ensure that all borrow and waste activities occur on high ground and do not result in loss or 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 ensure that all such areas comply with the preceding condition (#5) 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 preceding condition (#5). 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.

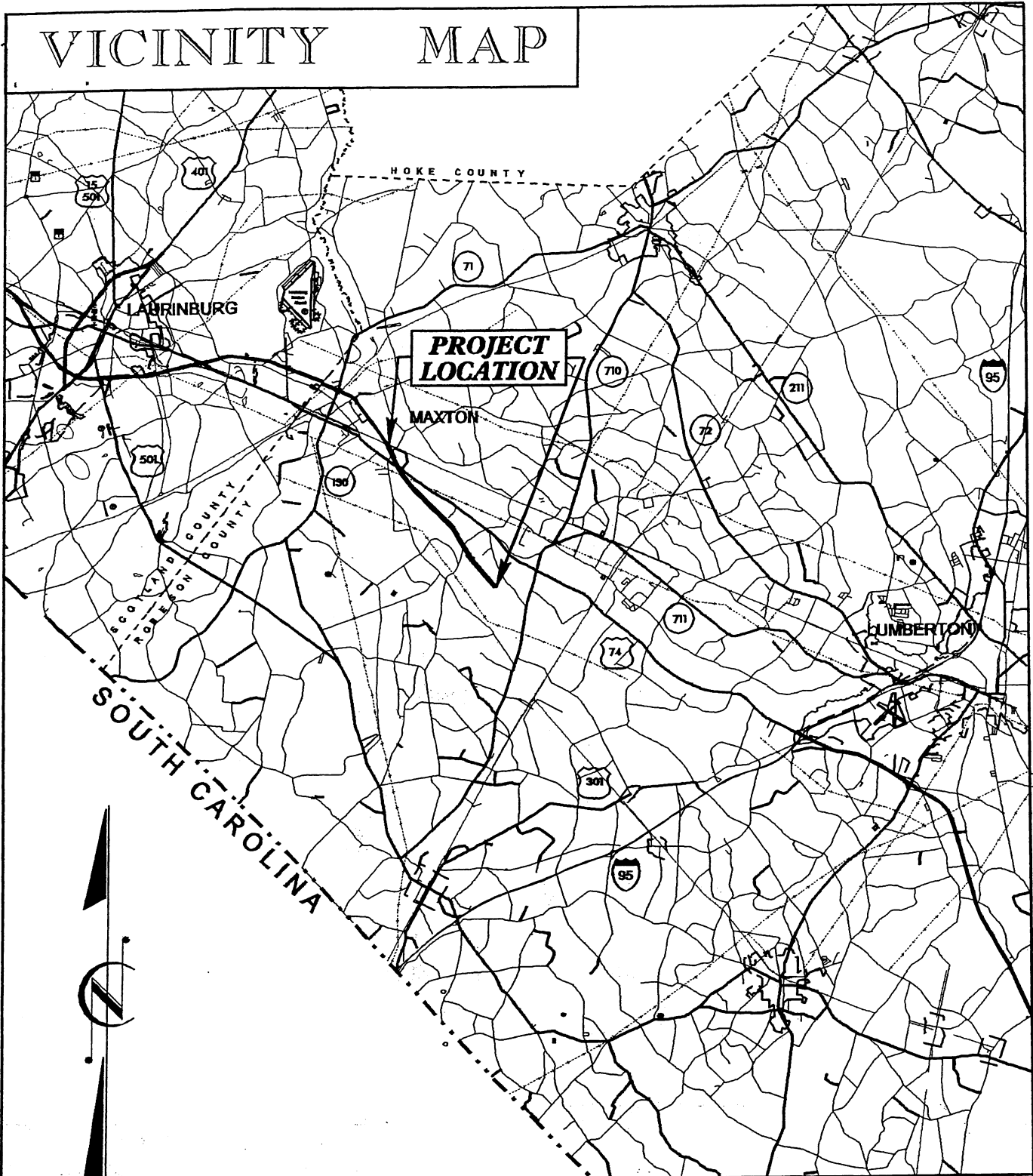
7. The permittee shall comply with the conditions specified in the water quality certification, No. 3468, issued by the North Carolina Division of Water Quality on August 5, 2004.

8. The permittee shall place the inverts of culverts and other structures greater than 48 inches in diameter in waters, streams, and wetlands one foot below the bed of the stream to allow low flow passage of water and aquatic life, unless providing passage would be impractical and the Corps of Engineers has waived this requirement. For culverts 48 inches in diameter or smaller, culverts 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 dis-equilibrium of wetlands or streambeds or banks, adjacent to, upstream or downstream of the structures.

9. The temporary diversion channels at Site #2, Section BA shall be constructed in accordance with Section 5.2.4 of the August 2003, "Best Management Practices for Construction and Maintenance Activities". All temporary diversion channels shall be constructed of non-erodible materials. All channel diversion structures shall be sized to withstand expected high flows.
10. 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.
11. 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.
12. The permittee shall take measures to prevent live or fresh concrete from coming into contact with any surface waters until the concrete has hardened.
13. If the permittee discovers any previously unknown historic or archeological remains while accomplishing the authorized work, he shall immediately stop work and notify the Wilmington District Engineer who will initiate the required State/Federal coordination.
14. No excavated or fill material shall be placed at any time in waters or wetlands outside the authorized permit area, nor will it be placed in any location or in any manner so as to impair surface water flow into or out of any wetland area.
15. The permittee shall maintain the authorized work in good condition and in conformance with the terms and conditions of this permit. The permittee is not relieved of this requirement if he abandons the permitted activity without transferring it to a third party.
16. All fill material shall be clean and free of any pollutants except in trace quantities. Metal products, organic materials, or unsightly debris will not be used.
17. This Department of the Army permit does not obviate the need to obtain other Federal, State, or local authorizations required by law.
18. In issuing this permit, the Federal Government does not assume any liability for:
 - 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 Federal activities initiated on behalf of the general public.
 - c. Damages to other permitted or un-permitted activities or structures caused by the authorized activity.

- d. Design and construction deficiencies associated with the permitted work.
- e. Damage claims associated with any future modification, suspension, or revocation of this permit.

VICINITY MAP



N. C. DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS

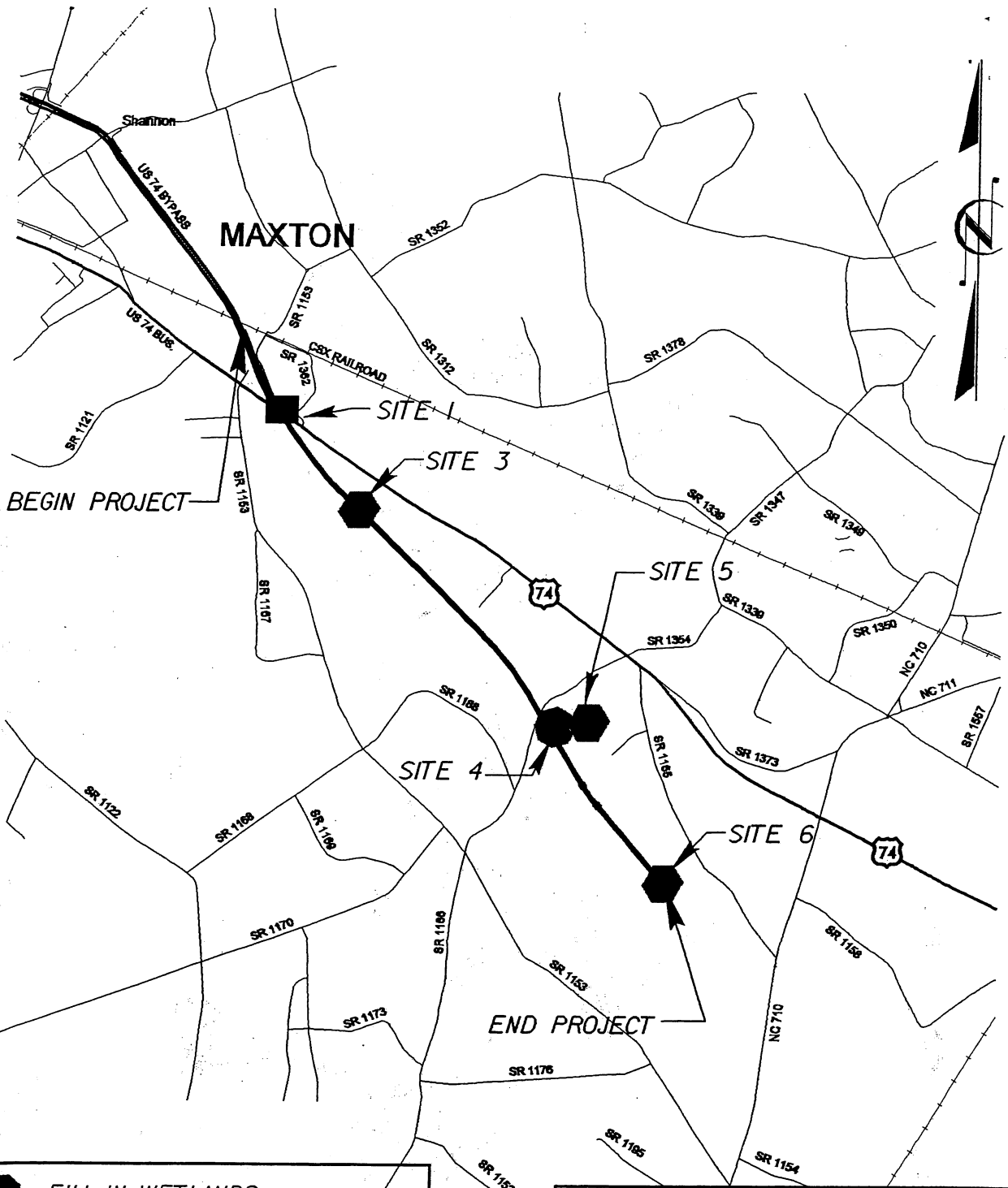
ROBESON COUNTY




PROJECT 6.469002T R-513A

RELOCATION OF US 74
FROM MAXTON BY-PASS
TO EAST OF S.R.1166

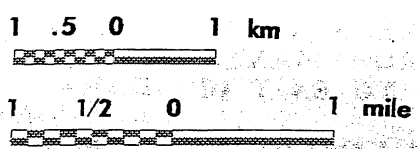
SHEET 1 OF 15

Rev. 2/13/04
APRIL, 2002



 FILL IN WETLANDS
 FILL IN SURFACE WATERS
 COMBINATION FILL IN WETLANDS AND SURFACE WATERS

SCALE



LOCATION MAP

SHOWING SITES FOR PERMIT APPLICATION ALONG PROPOSED US 74

N. C. DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS

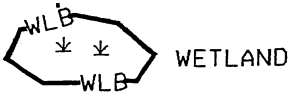
ROBESON COUNTY

PROJECT: 6.469002T - R-513A
US 74 FROM MAXTON BY-PASS TO EAST OF SR.1166

Rev. 2/13/04
ADDI 9000

LEGEND

—WLB— WETLAND BOUNDARY



DENOTES FILL IN WETLAND

DENOTES FILL IN SURFACE WATER

DENOTES FILL IN SURFACE WATER (POND)

DENOTES TEMPORARY FILL IN WETLAND

DENOTES EXCAVATION IN WETLAND

DENOTES TEMPORARY FILL IN SURFACE WATER

DENOTES MECHANIZED CLEARING

←← FLOW DIRECTION

—TB— TOP OF BANK

—WE— EDGE OF WATER

—C— PROP. LIMIT OF CUT

—F— PROP. LIMIT OF FILL

— PROP. RIGHT OF WAY

—NG— NATURAL GROUND

—PL— PROPERTY LINE

—TDE— TEMP. DRAINAGE EASEMENT

—PDE— PERMANENT DRAINAGE EASEMENT

—EAB— EXIST. ENDANGERED ANIMAL BOUNDARY

—EPB— EXIST. ENDANGERED PLANT BOUNDARY

—▽— WATER SURFACE

LIVE STAKES

BOULDER

— — — COIR FIBER ROLLS

ADJACENT PROPERTY OWNER OR PARCEL NUMBER

PROPOSED BRIDGE

PROPOSED BOX CULVERT

PROPOSED PIPE CULVERT

(DASHED LINES DENOTE EXISTING STRUCTURES)

SINGLE TREE

WOODS LINE

DRAINAGE INLET

ROOTWAD

VANE

RIP RAP

RIP RAP ENERGY DISSIPATOR BASIN

N. C. DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS

ROBESON COUNTY

PROJECT: 6.469002T - R-513 A

US 74 FROM MAXTON BY-PASS
TO EAST OF SR 1166

SHEET 3 OF 15 Rev. 2/13/04
APRIL, 2002

MATCH SITE 1 SHEET 2

REMOVE EXISTING FENCE

-RPBY1- SCSta. 10+60.000

-RPBY1- TS Sta. 10+00.000 = F
 -L- POT Sta. 13+12.858
 OFFSET = 17.7m

-RPBY1-

US 74 WBL 8.5 BST

-L- STA. 14+91.985
 0.646 LT.

RETAIN & EXTEND
 REMOVE EXIST. 2G.I.

-L- PCSSta. 13+21.459

US 74 EBL 8.5 BST

S 21° 43' 13.3" E

GRAU-380

COLLAR & EXTEND

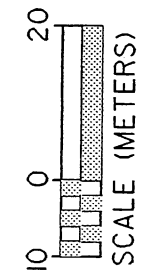
A. F. HORNE, JR.

-RPC11- +76.32' CL 74 RIPRAP
 36,407 RT. 8.4 S.M. PF
 (119.44 FT.)

■ E ■ DENOTES EXCAVATION IN WETLAND

■ F ■ DENOTES FILL IN WETLAND

■ S ■ DENOTES FILL IN SURFACE WATER



MARY H. HORNE SITE 1 SHEET 1

NCDOT

DIVISION OF HIGHWAYS
 ROBESON COUNTY

PROJECT: 6-469002T (R-513A)

US 74 OM MAXTON BY-PASS
 TO EAST OF SR 1166

REV. 2/15/04

SHEET 4 OF 15

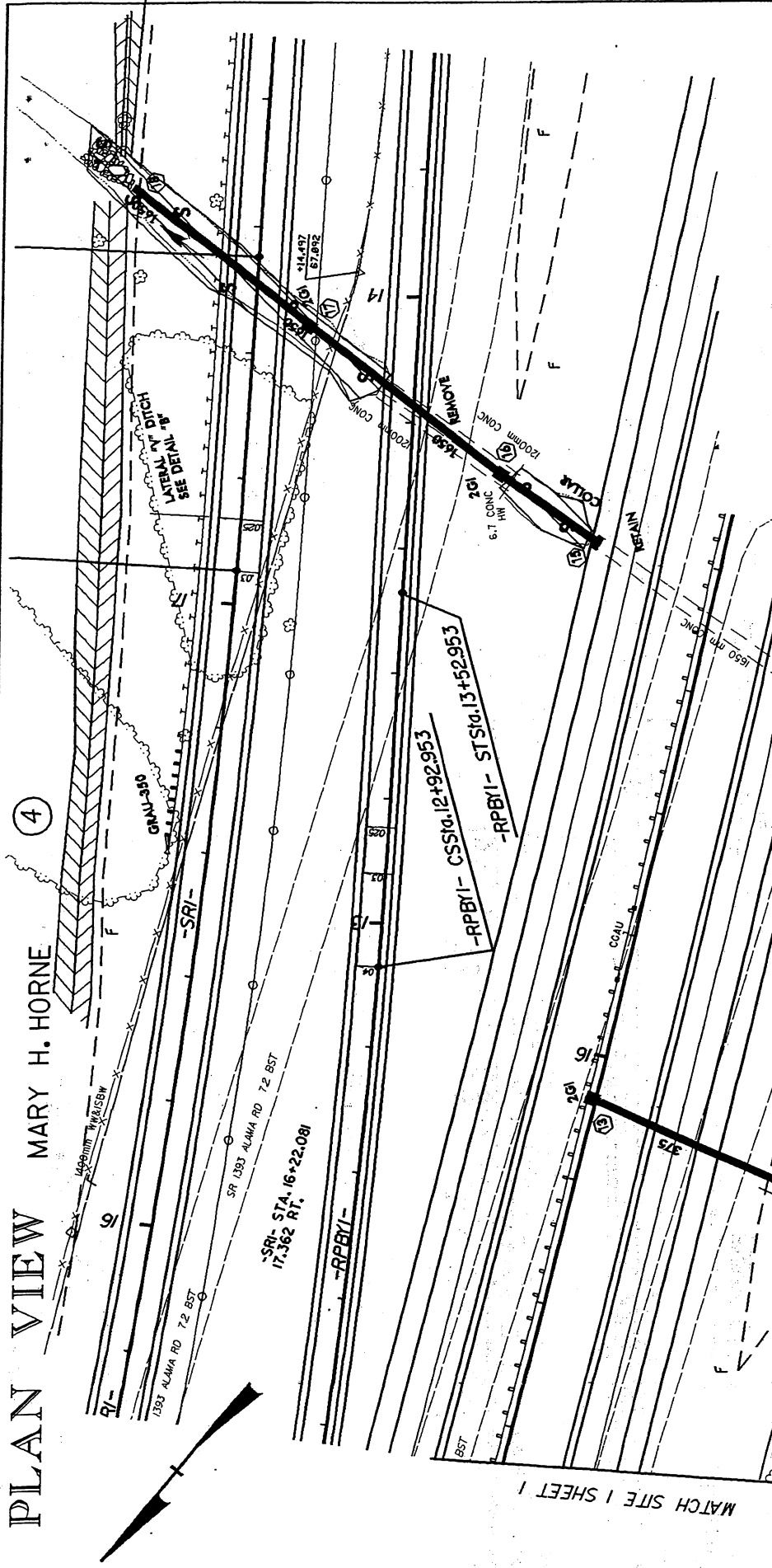
09/19/03

PLAN VIEW

PLAN VIEW

MARY H. HORNE

④



MATCH SITE 1 SHEET 1

SITE 1 SHEET 2

NCDOT

DIVISION OF HIGHWAYS

ROBESON COUNTY

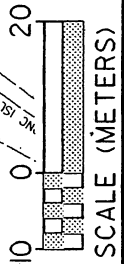
PROJECT: 6.469002T (R-513A)

US 74 OM MAXTON BY-PASS

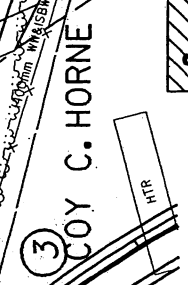
TO EAST OF SR 1166

Rev. 2/13/04
09/19/03

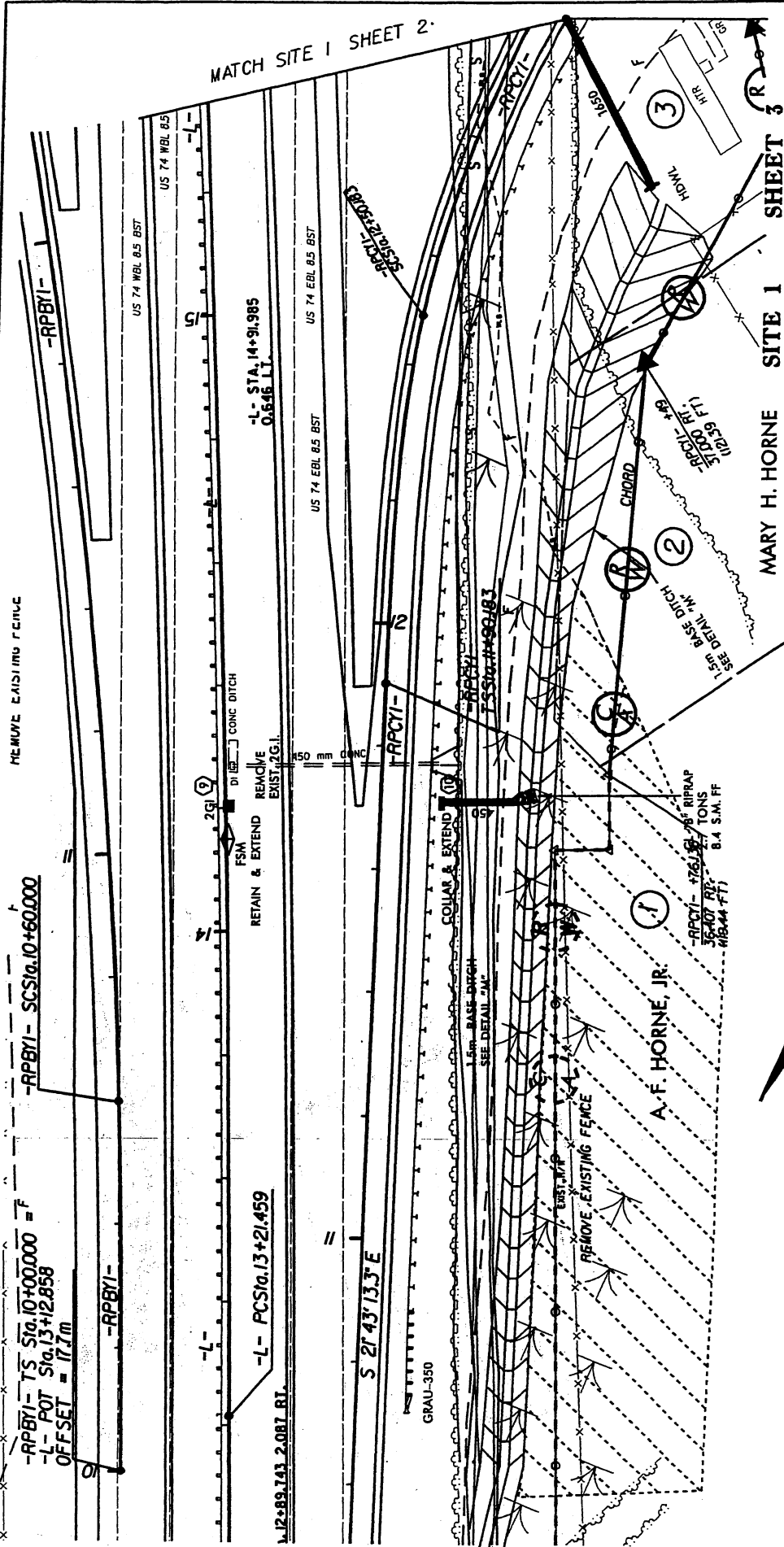
SHEET 5 OF 15



DENOTES FILL IN SURFACE WATER



③

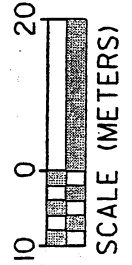


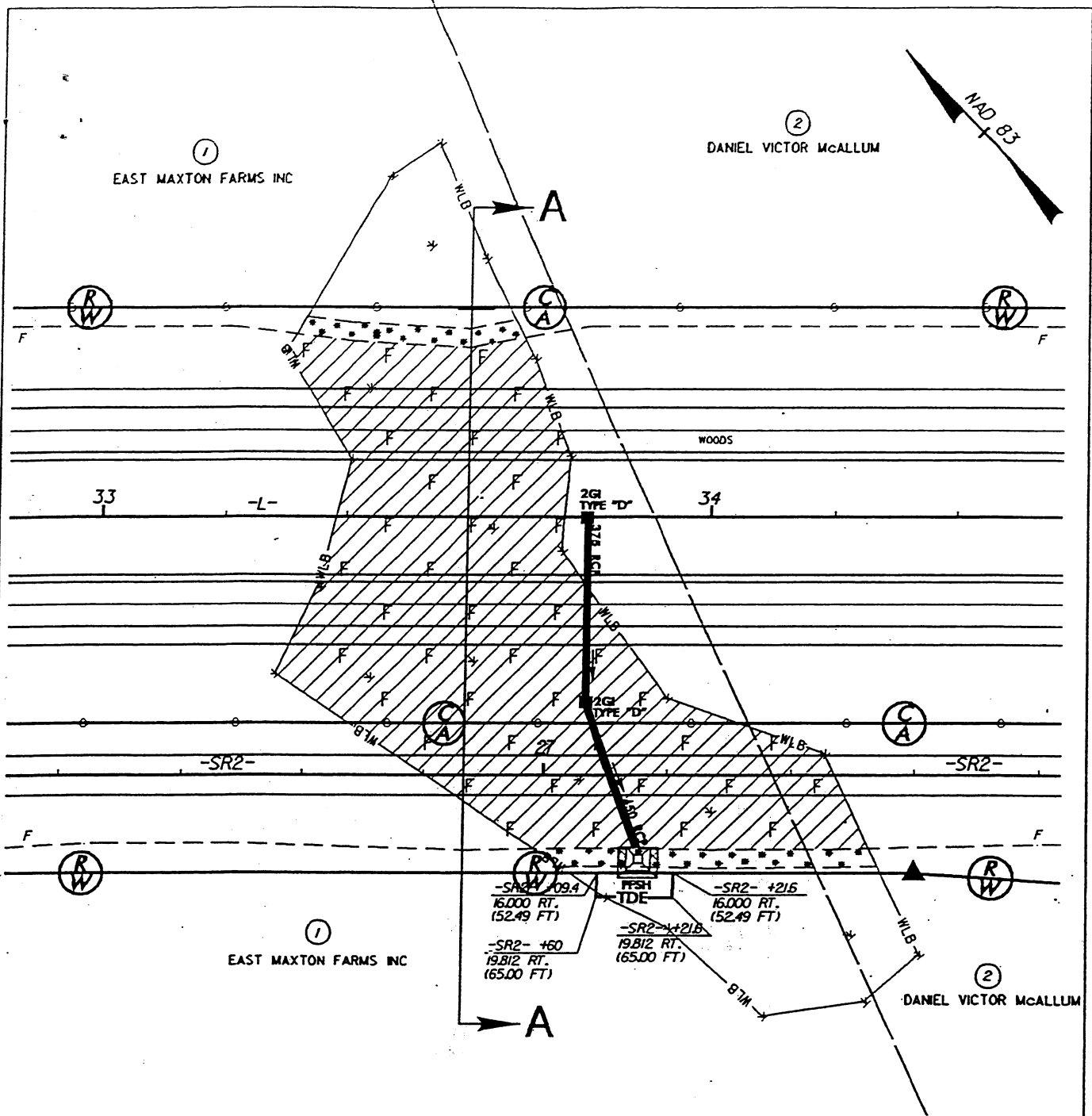
MARY H. HORNE SITE 1 SHEET 1
 SHEET 3

NCDOT
 DIVISION OF HIGHWAYS
 ROBESON COUNTY
 PROJECT: 6.469002T (R-513A)
 US 74 OM MAXTON BY-PASS
 TO EAST OF SR 1166
 REV. 3/2004
 09/19/03

PLAN VIEW

BOUSSINESQ EQUATION
 DITCH IMPACTS



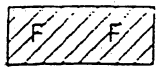


SITE 5 SHEET 1

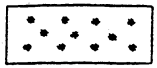
PROPOSED FILL IN WETLAND

N.C. DEPT. OF TRANSPORTATION
 DIVISION OF HIGHWAYS
 ROBESON COUNTY
 PROJECT 6.469002T - R-515 A
 US 74 FROM MAXTON BY-PASS
 TO EAST OF SR 1166

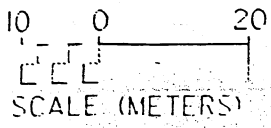
Rev. APRIL, 2004
 APRIL, 2002



DENOTES FILL IN WETLAND

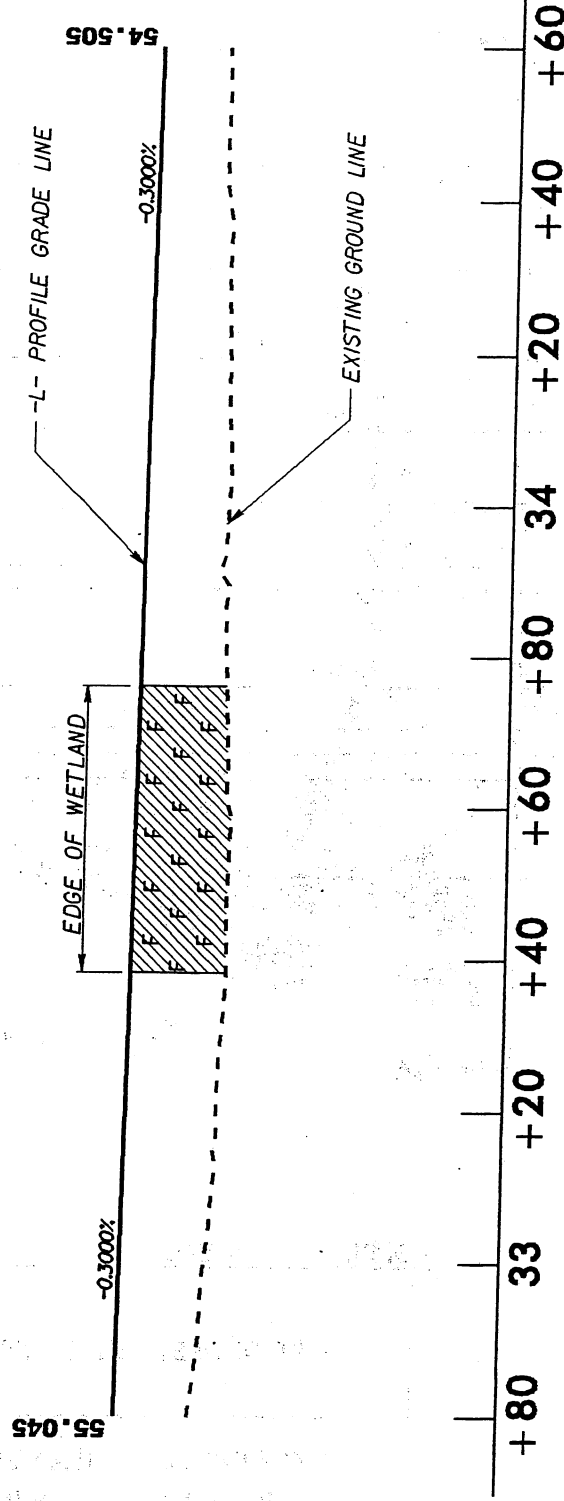


DENOTES MECHANIZED CLEARING



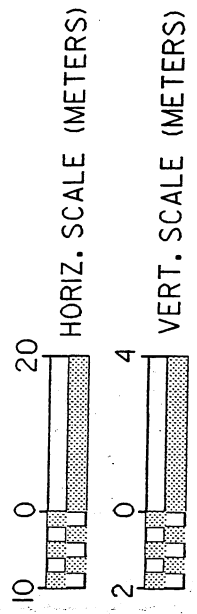
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45



SITE 3 SHEET 2

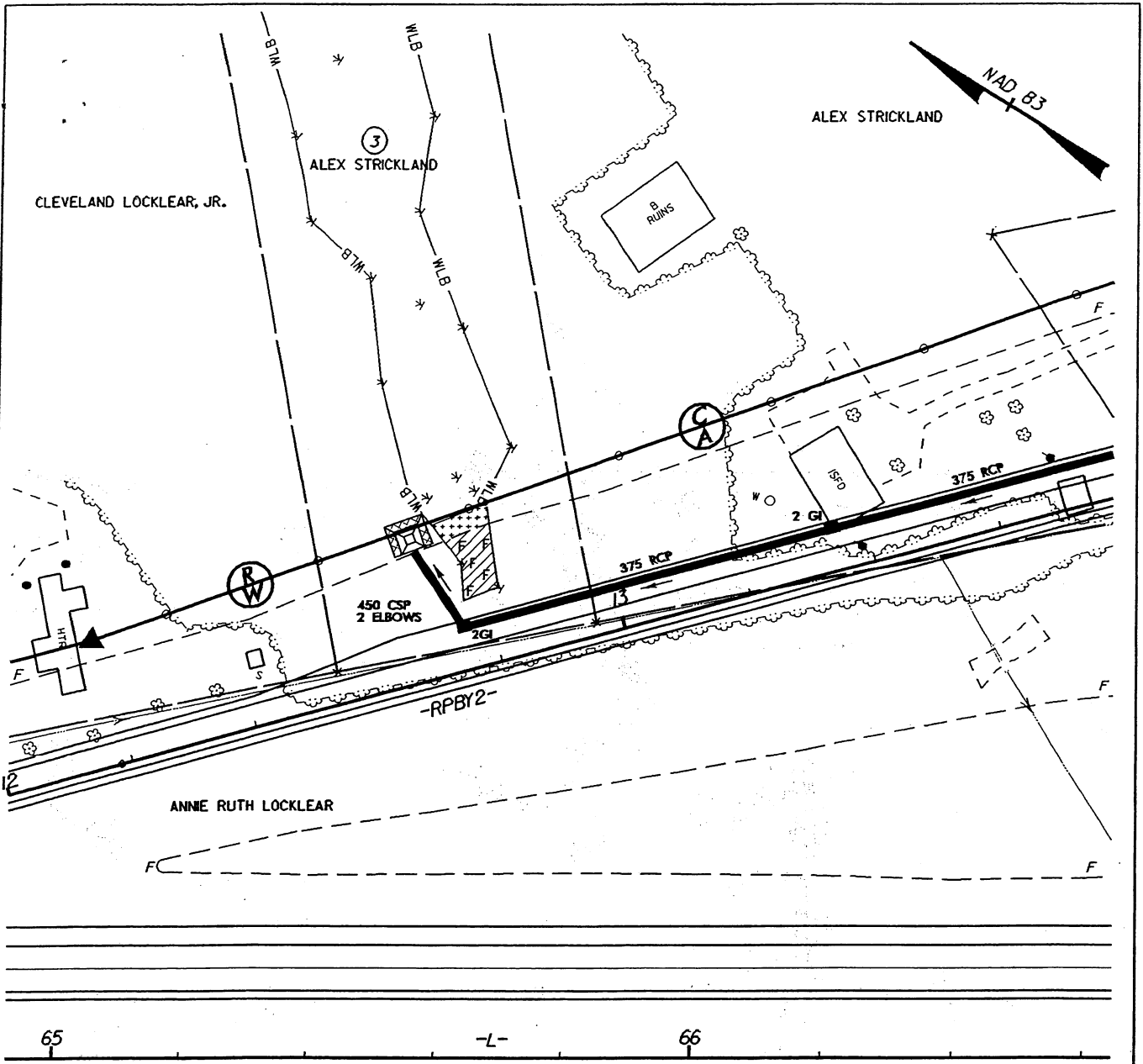
PROFILE VIEW
SITE 3



DENOTES FILL IN WETLAND

N.C. DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS
ROBESON COUNTY
PROJECT 6.469002T - R-513 A
US 74 FROM MAXTON BY-PASS
TO EAST OF SR 1166.

SHEET 8 OF 15
REV. 2/13/04
APRIL, 2002



SITE 4 SHEET 1

PROPOSED FILL IN WETLAND

N.C. DEPT. OF TRANSPORTATION
 DIVISION OF HIGHWAYS
 ROBESON COUNTY

PROJECT 6.469002T - R-513 A
 US 74 FROM MAXTON BY-PASS
 TO EAST OF SR 1166

SHEET 7 OF 15

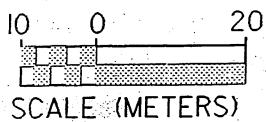
Rw. 2/13/04
 APRIL, 2002

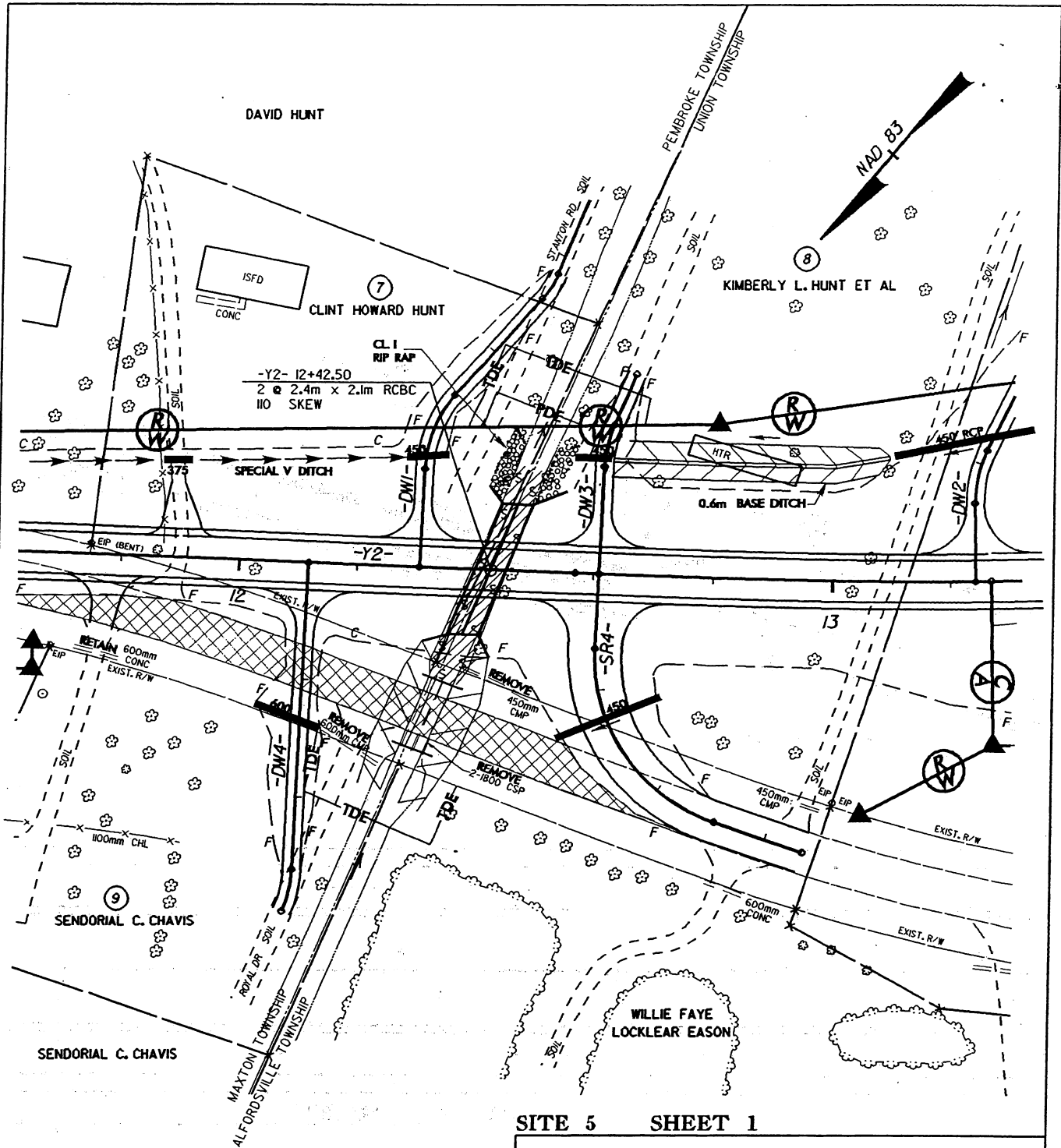


DENOTES FILL IN WETLAND



DENOTES MECHANIZED CLEARING

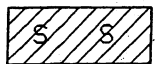


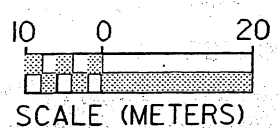


SITE 5 SHEET 1

PROPOSED FILL IN WETLAND

N. C. DEPT. OF TRANSPORTATION
 DIVISION OF HIGHWAYS
 ROBESON COUNTY
 PROJECT 6.469002T - R-513 A
 US 74 FROM MAXTON BY-PASS
 TO EAST OF SR 1166

 DENOTES FILL IN SURFACE WATER



MONCELL 52
 JESS P. GIBSON
 DB 953 PG 431

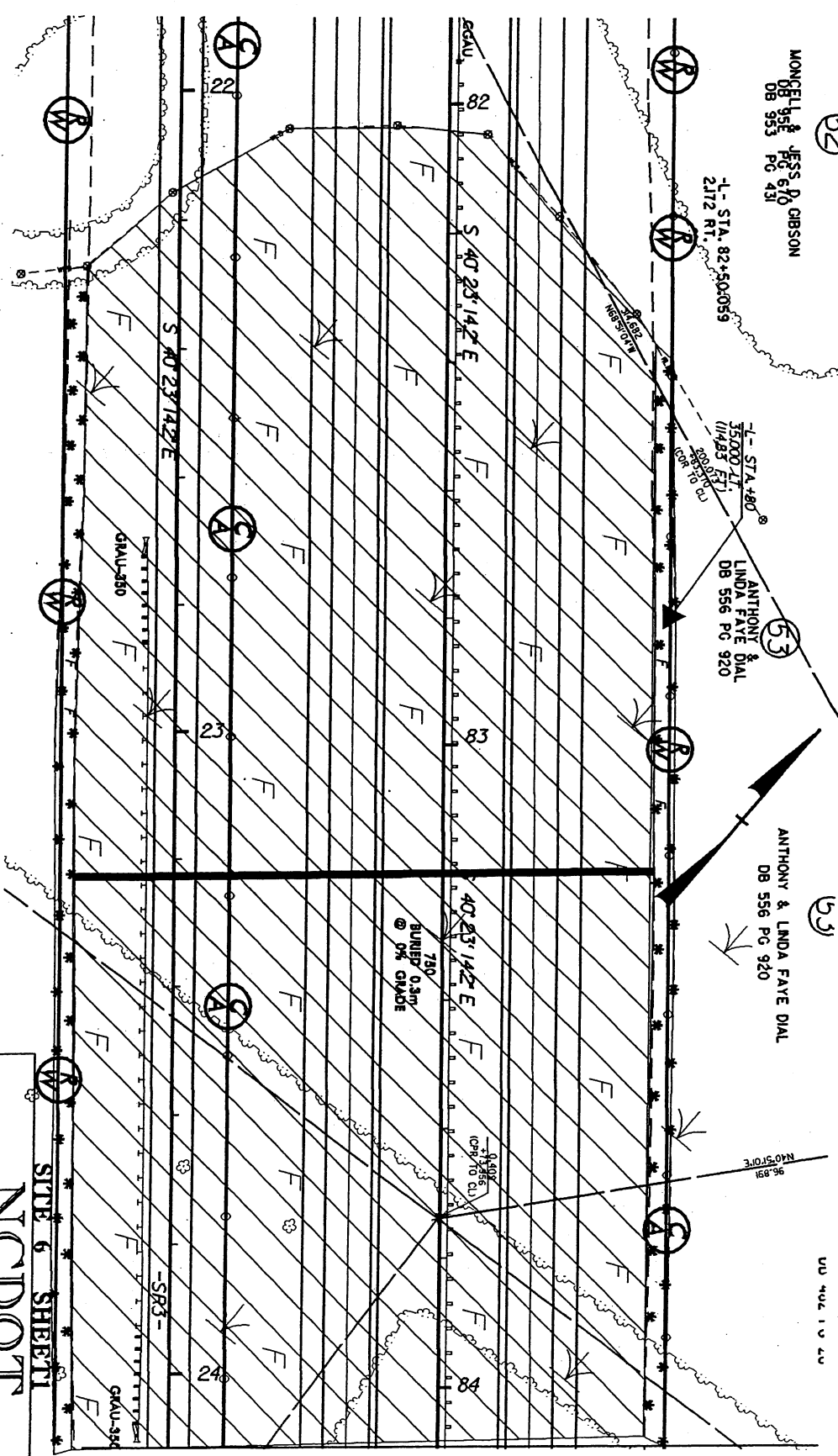
L- STA. 82+50.059
 2172 RT.

L- STA. +80
 35000 FT
 11433 FT
 100' TO
 100' TO

ANTHONY &
 LINDA FAYE DIAL
 DB 556 PG 920

ANTHONY & LINDA FAYE DIAL
 DB 556 PG 920

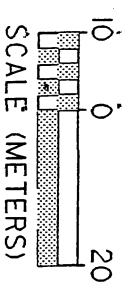
UD 402 1 V LV



F
 DENOTES FILL IN
 WETLAND

 DENOTES MECHANIZED
 CLEARING

PLAN VIEW
 SITE 6



NCDDOT

DIVISION OF HIGHWAYS
 ROBESON COUNTY
 PROJECT: 6.469002T (R-513A)
 US 74 FROM MAXTON BY-PASS
 TO EAST OF SR 1166

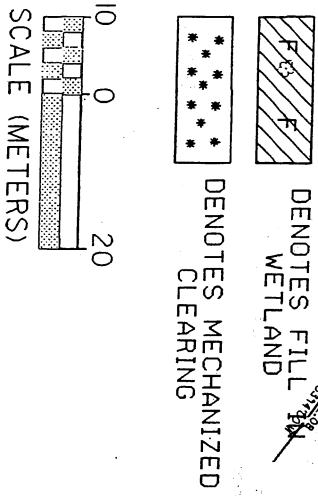
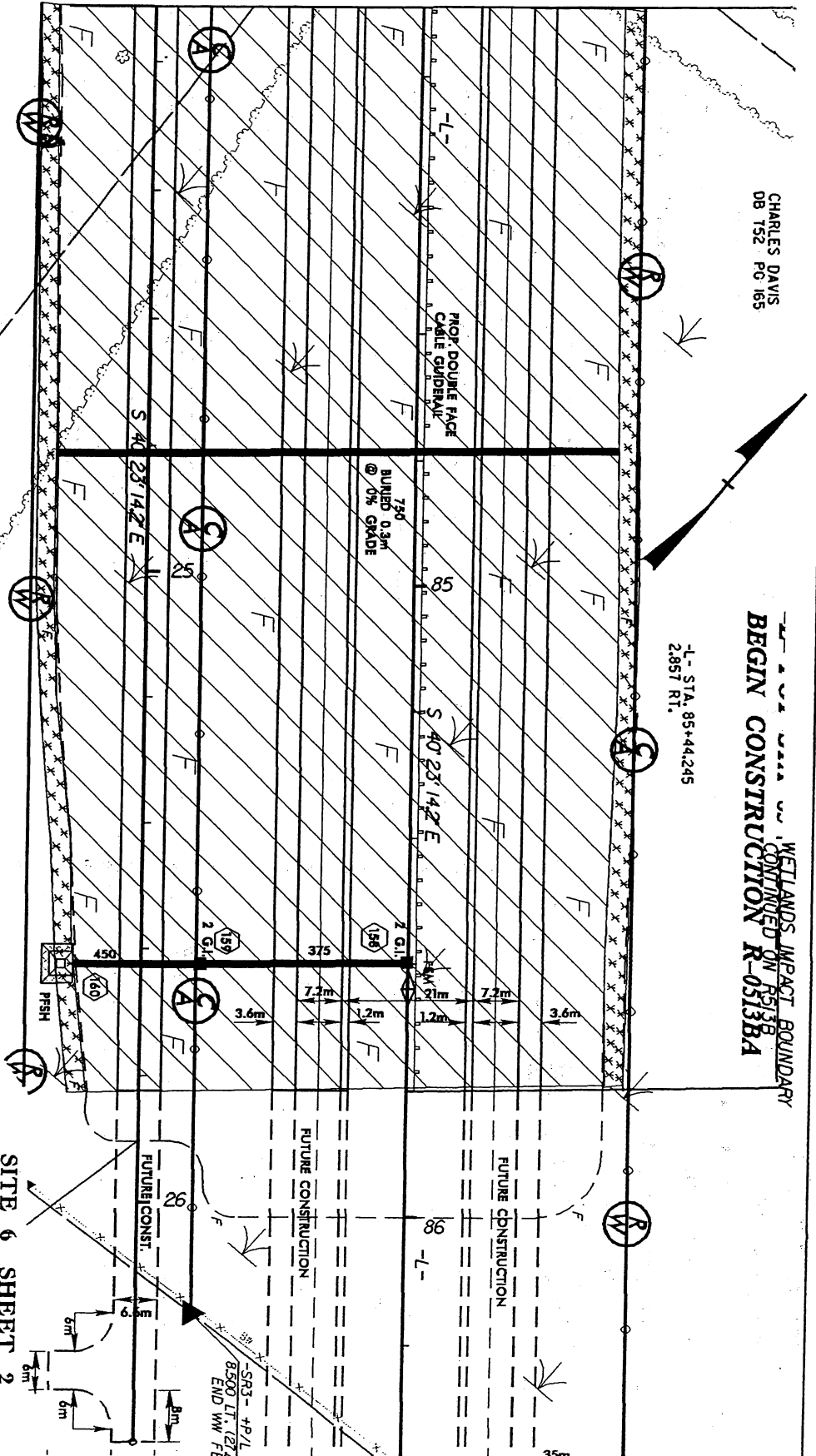
SHEET 11 OF 15
 Rev. 2/13/04
 09/19/03

MATCH SITE 6 SHEET 2

CHARLES DAVIS
DB 752 PG 185

-L- STA. 85+44.245
2.857 RT.

WETLANDS IMPACT BOUNDARY
CONTINUED ON SHEET
BEGIN CONSTRUCTION R-0513BA



PLAN VIEW
SITE 6

SITE 6 SHEET 2

NCIDOT

DIVISION OF HIGHWAYS
ROBESON COUNTY
PROJECT: 6.469002T1 (R-513A)
US 74 FROM MAXTON BY-PASS
TO EAST OF SR 1166

SHEET 12 OF 15

Rev. 2/13/04
09/19/03

IMPACT SUMMARY

Site No.	Station (From/To)	Structure Size	WETLAND IMPACTS			SURFACE WATER IMPACTS				DITCH IMPACTS							
			Fill In Wetlands (ac)	Temp. Fill In Wetland (ac)	Excavation In Wetlands (ac)	Mech Clearing (Method III) (ac)	Fill In SW (Natural) (ac)	Fill In SW (Pond) (ac)	Temp. Fill In SW (ac)	Existing Channel Impacted (ft)	Relocated Channel (ft)	Enclosed Channel (ft)	Boussinesq Equation (ac)				
1	13+00 TO 16+60 -L-	1650mm	0.14		0.23		0.39					1715		230		0.87	
2	13+60 TO 14+20 RPBY1	900mm															
NON-JURISDICTIONAL STREAM																	
3	33+38 to 33+75		1.01				0.06										
4	12+78 Rp 'B'		0.02				0.01										
5	12+42 - 1/2-	2 - 2.4m x 2.1m						0.07				164		79			
6	82+00 TO 85+50 -L-		8.01				0.53										
PEE DEE RIVER BASIN (LUMBER RIVER) NO BUFFER REGULATIONS																	
TOTALS			9.18	0	0.23	0.60	0.46	0	0	0	0	1879	0	308	0	0.87	0

N.C. DEPT. OF TRANSPORTATION
 DIVISION OF HIGHWAYS
 ROBESON COUNTY
 PROJECT: 6.469002T - R-513 A
 Rev 4/2004
 Rev 3/2004
 APRIL, 2002

IMPACT SUMMARY																	
Site No	Station (From/To)	Structure Size	WETLAND IMPACTS				SURFACE WATER IMPACTS				DITCH IMPACTS						
			Fill In Wetlands (ha)	Temp. Fill In Wetlands (ha)	Excavation In Wetlands (ha)	Mech Clearing (Method III) (ha)	Fill In SW (Natural) (ha)	Fill In SW (Pond) (ha)	Temp. Fill In SW (ha)	Existing Channel Impacted (m)	Relocated Channel (m)	Enclosed Channel (m)	Boussinesq Equation (ha)				
1	13+00 TO 16+60 -L-	1650mm	0.058		0.094			0.157				523		70		0.353	
2	28+10 -L-	900mm						NON-JURISDICTIONAL STREAM									
3	33+38 TO 33+75		0.409			0.026											
4	12+78 Rp 'B'		0.007			0.003											
5	12+42 -Y2-	2 - 2.4m x 2.1m						0.029				50		24			
6	82+00 TO 85+50		3.242			0.215											
	-L-																
PEE DEE RIVER BASIN (LUMBER RIVER) NO BUFFER REGULATIONS																	
TOTALS			3.716	0	0.094	0.244	0.186	0	0	0	573	0	94	0	0.353	0	

N.C. DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS
ROBESON COUNTY
PROJECT: 6469002T - R-513 A
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Rev 3/2004
APRIL, 2002
SHEET 44 OF 75

PROPERTY OWNER

SITE	PARCEL	OWNER'S NAME	ADDRESS
1	1	A. F. HORNE, Jr	202 US 74 Bus. W Maxton, NC 28364
	2, 4	MARY H. HORNE	Rt. 4 Box 10 Maxton, NC 28364
	3	COY C. HORNE	Rt. 4 Box 10 Maxton, NC 28364
3	1	EAST MAXTON FARMS INC	P.O. Box 310308 Columbia, SC 29221
	2	DANIEL VICTOR McALLUM	P.O. Box 205 Rockwell, NC 28138
4	3	ALEX STRICKLAND	754 Cabinet Shop Rd Maxton, NC 28364
5	7	CLINT HOWARD HUNT	Rt 4 Box 47 Maxton, NC 28364
	8	KIMBERLY L. HUNT	Rt 4 Box 47 Maxton, NC 28364
	9	SENDORIAL C. CHAVIS	Rt 2 Box 80A Pembroke, NC 28372
6	53	ANTHONY & LINDA FAYE DIAL CHARLES DAVIS	1766 Gaddys Mill Rd. Rowland, NC 283834 Rt 34 Box 80 149 Nealsen Rd. Maxton, NC 28364

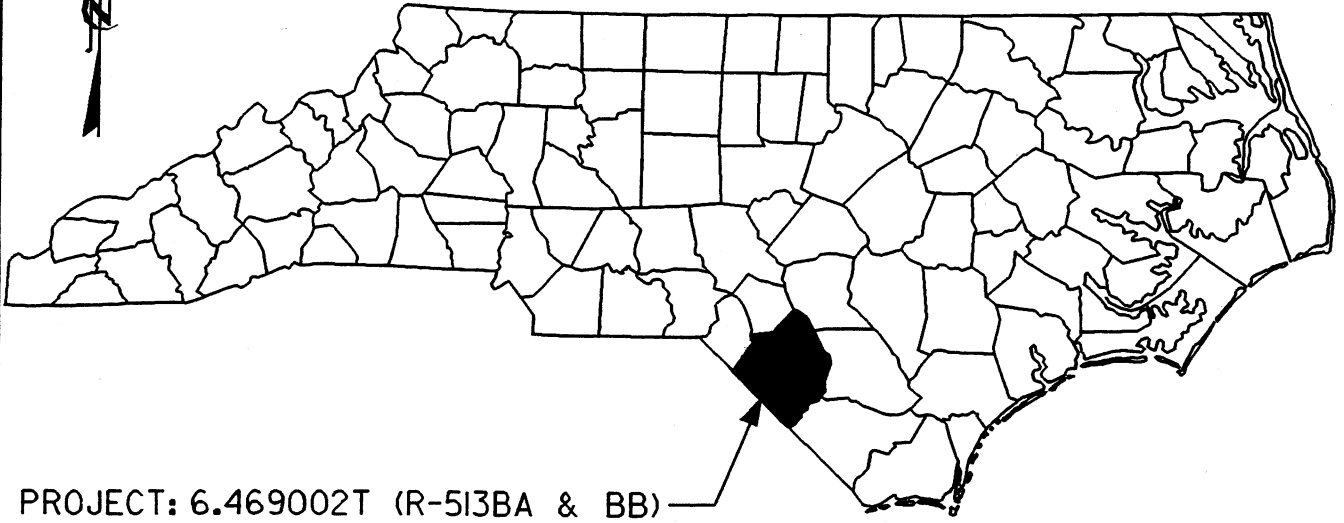
N. C. DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS

ROBESON COUNTY

PROJECT: 6.469002 - R-513 A

US 74 FROM MAXTON BY-PASS
TO EAST OF SR 1166

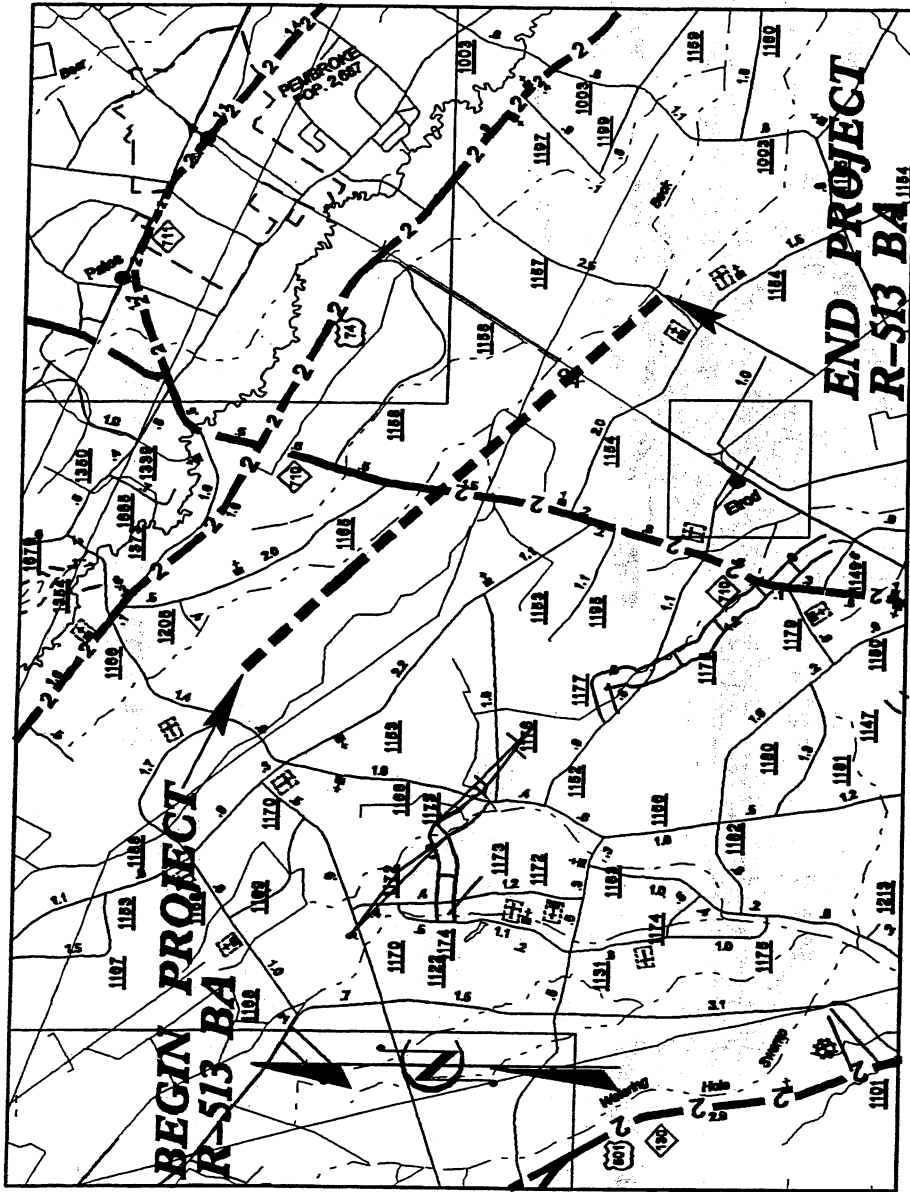
NORTH CAROLINA



PROJECT: 6.469002T (R-513BA & BB)

VICINITY MAP

NCDOT
DIVISION OF HIGHWAYS
ROBESON COUNTY
PROJECT: 6.469002T (R-513BA
MAXTON-LUMBERTON
US 74 FROM EAST OF SR 1166
TO WEST OF SR 1164
SHEET 1 OF 23 9/18/03



VICINITY MAP

NCDOT

DIVISION OF HIGHWAYS

ROBESON COUNTY

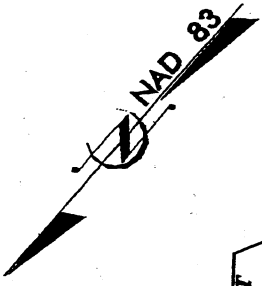
PROJECT: 6.469002T (R-513BA)

MAXTON-LUMBERTON

US 74 FROM EAST OF SR 1166

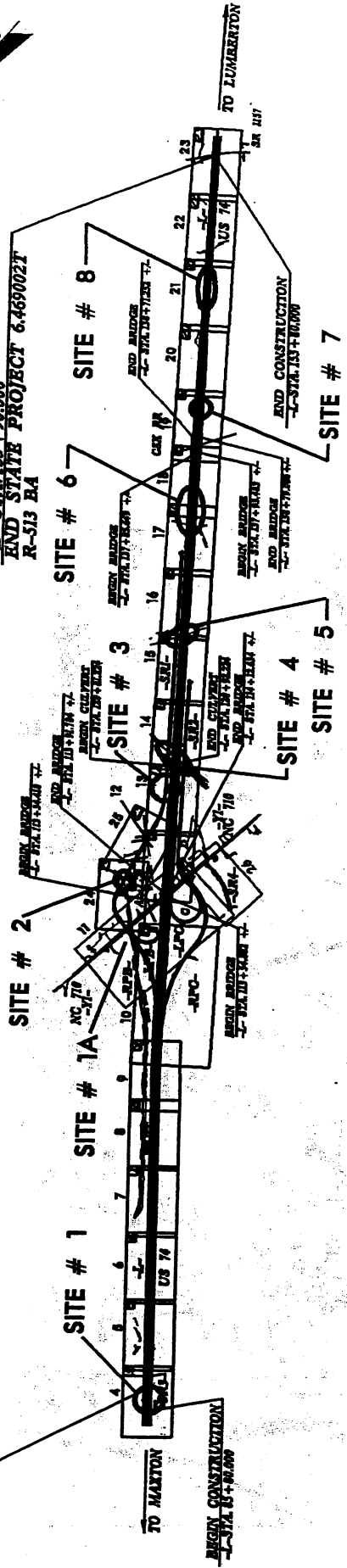
TO WEST OF SR 1157

SHEET 2 OF 23 9/18/03



STA. 87+00.000
BEGIN STATE PROJECT 6.469002T
R-513 BA

STA. 153+90.000
END STATE PROJECT 6.469002T
R-513 BA

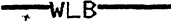
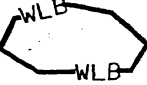
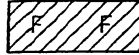


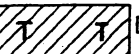

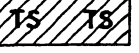


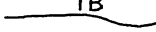
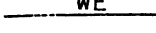
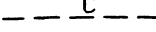


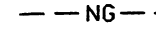






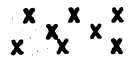


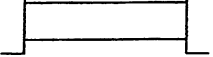
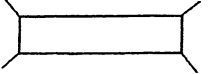




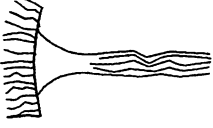



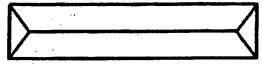
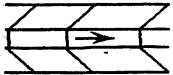


NCDOT
 DIVISION OF HIGHWAYS
 ROBESON COUNTY
 PROJECT: 6.469002T (R-513 BA)
 MAXTON-LUMBERTON
 US 74 FROM EAST OF SR 1166
 TO WEST OF SR 1157

SHEET 3 OF 23 9/18/03

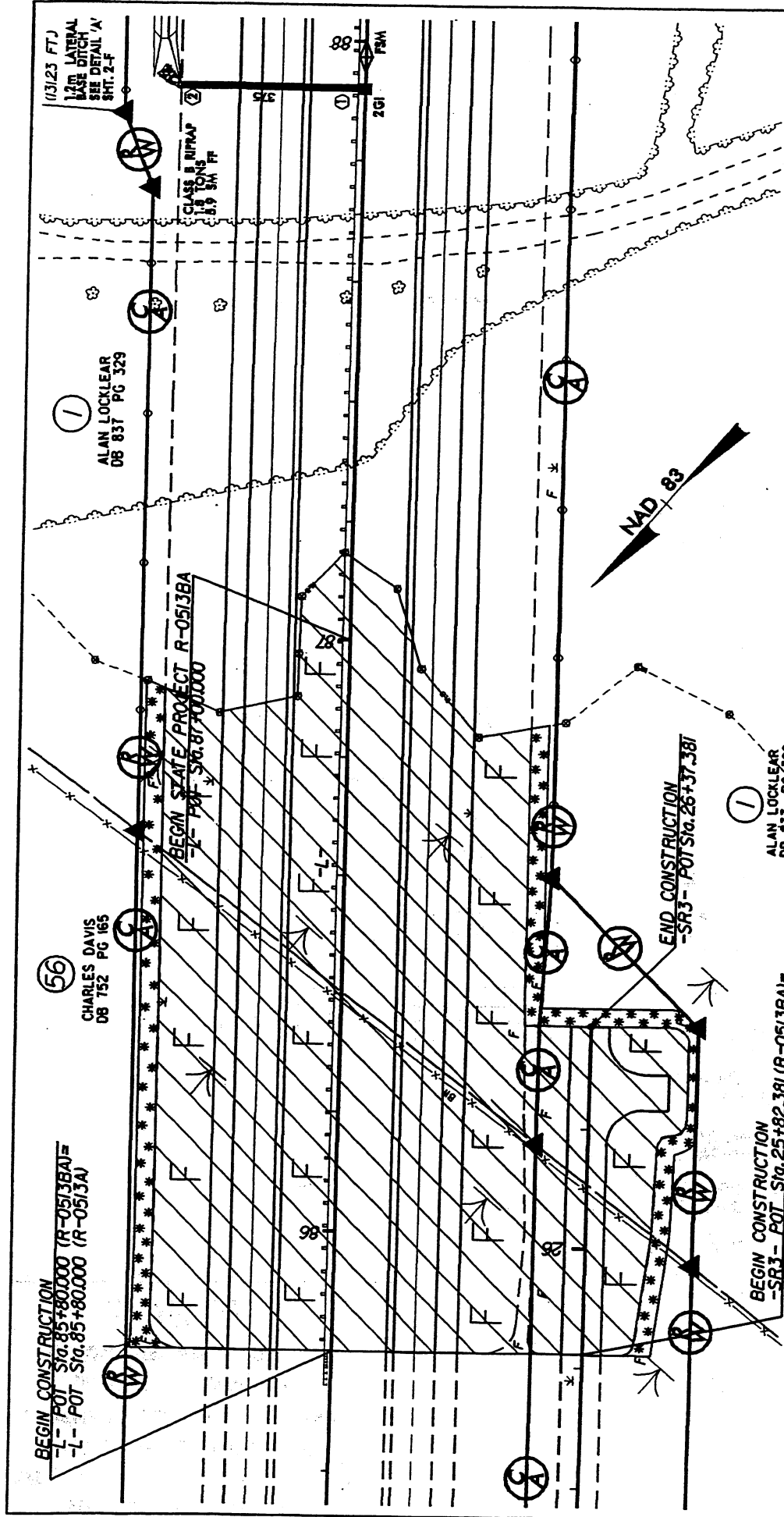
SITE LOCATION

WETLAND LEGEND

- | | |
|---|--|
| <p> WETLAND BOUNDARY</p> <p> WETLAND</p> <p> DENOTES FILL IN WETLAND</p> <p> DENOTES FILL IN SURFACE WATER</p> <p> DENOTES FILL IN SURFACE WATER (POND)</p> <p> DENOTES TEMPORARY FILL IN WETLAND</p> <p> DENOTES EXCAVATION IN WETLAND</p> <p> DENOTES TEMPORARY FILL IN SURFACE WATER</p> <p> DENOTES MECHANIZED CLEARING</p> <p> FLOW DIRECTION</p> <p> TOP OF BANK</p> <p> EDGE OF WATER</p> <p> PROP. LIMIT OF CUT</p> <p> PROP. LIMIT OF FILL</p> <p> PROP. RIGHT OF WAY</p> <p> NATURAL GROUND</p> <p> PROPERTY LINE</p> <p> TEMP. DRAINAGE EASEMENT</p> <p> PERMANENT DRAINAGE EASEMENT</p> <p> EXIST. ENDANGERED ANIMAL BOUNDARY</p> <p> EXIST. ENDANGERED PLANT BOUNDARY</p> <p> WATER SURFACE</p> <p> LIVE STAKES</p> <p> BOULDER</p> <p> CORE FIBER ROLLS</p> | <p> PROPOSED BRIDGE</p> <p> PROPOSED BOX CULVERT</p> <p> PROPOSED PIPE CULVERT
12"-48"
PIPES
54" PIPES
& 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</p> <p> LEVEL SPREADER (LS)</p> <p> DITCH / GRASS SWALE</p> |
|---|--|


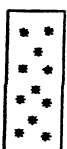
NCDOT
 DIVISION OF HIGHWAYS
 ROBESON COUNTY
 PROJECT: 6.469002T (R-513BA)
 MAXTON-LUMBERTON
 US 74 FROM EAST OF SR 1166
 TO WEST OF SR 1157

SHEET 4 OF 2 9/18/03



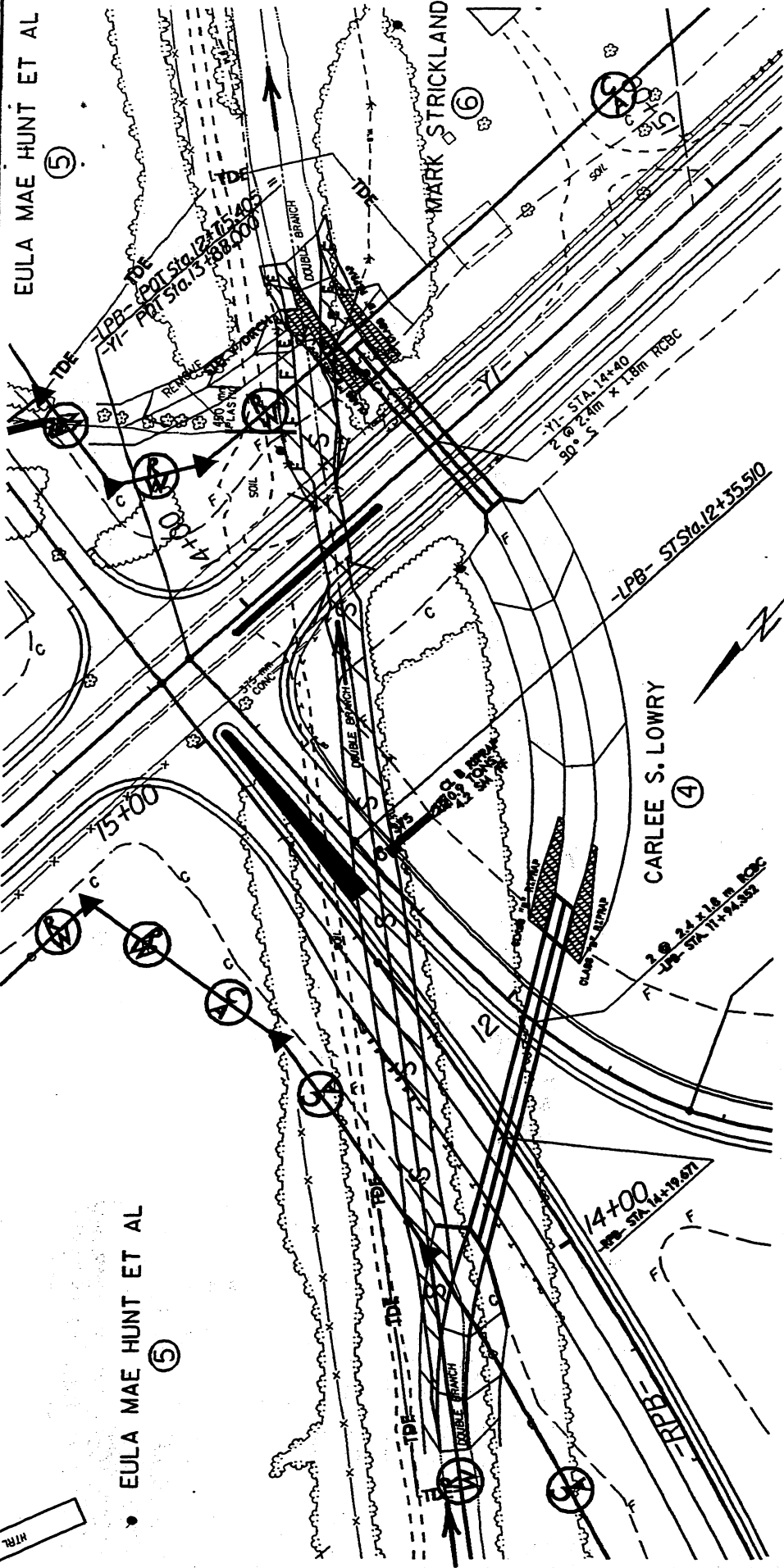
NCDOT
 DIVISION OF HIGHWAYS
 ROBESON COUNTY
 PROJECT: 6.469002T (R-513BA)
 MAXTON-LUMBERTON
 US 74 FROM EAST OF SR 1166
 TO WEST OF SR 1157
 SHEET OF 23 9/18/03

PLAN VIEW
SITE # 1

-  DENOTES FILL IN WETLAND
-  DENOTES MECHANIZED CLEARING







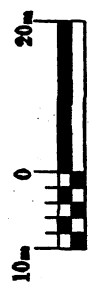
HORIZONTAL SCALE



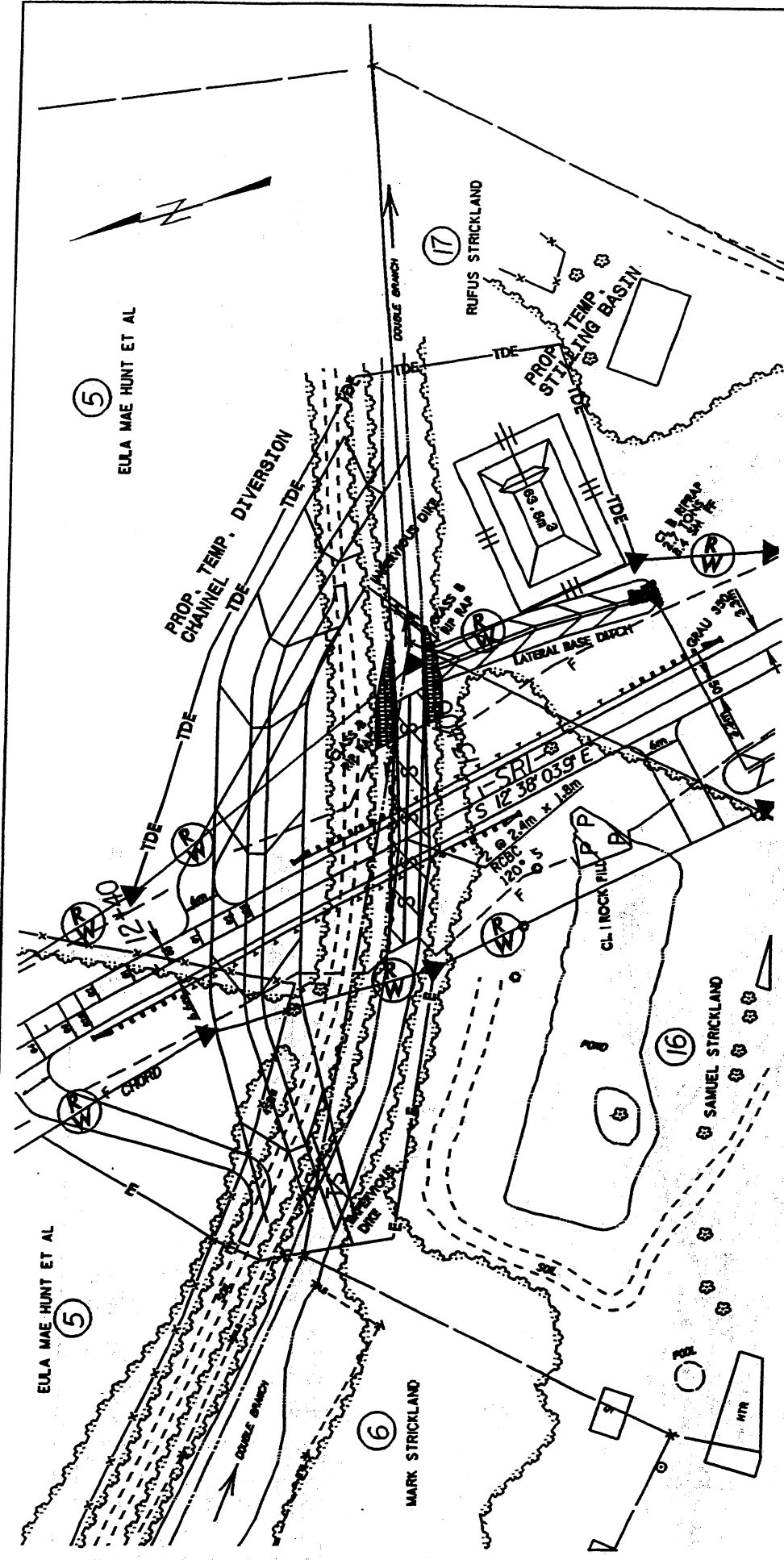
NCDOT
 DIVISION OF HIGHWAYS
 ROBESON COUNTY
 PROJECT: 6.469002T (R-513BA)
 MAXTON-LUMBERTON
 US 74 FROM EAST OF SR 1166
 TO WEST OF SR 1157
 SHEET 6 OF 23 9/18/03

PLAN VIEW
SITE # 1A

- 
 DENOTES FILL IN SURFACE WATER
- 
 DENOTES FILL IN WETLAND
- 
 DENOTES EXCAVATION IN WETLAND
- 
 DENOTES MECHANIZED CLEARING



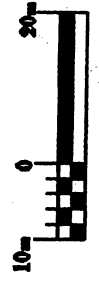
HORIZONTAL SCALE



NCDOT
 DIVISION OF HIGHWAYS
 ROBESON COUNTY
 PROJECT: 6.469002T (R-513BA)
 MAXTON-LUMBERTON
 US 74 FROM EAST OF SR 1166
 TO WEST OF SR 1157
 SHEET 7 OF 23 9/18/03


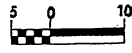
PLAN VIEW SITE # 2

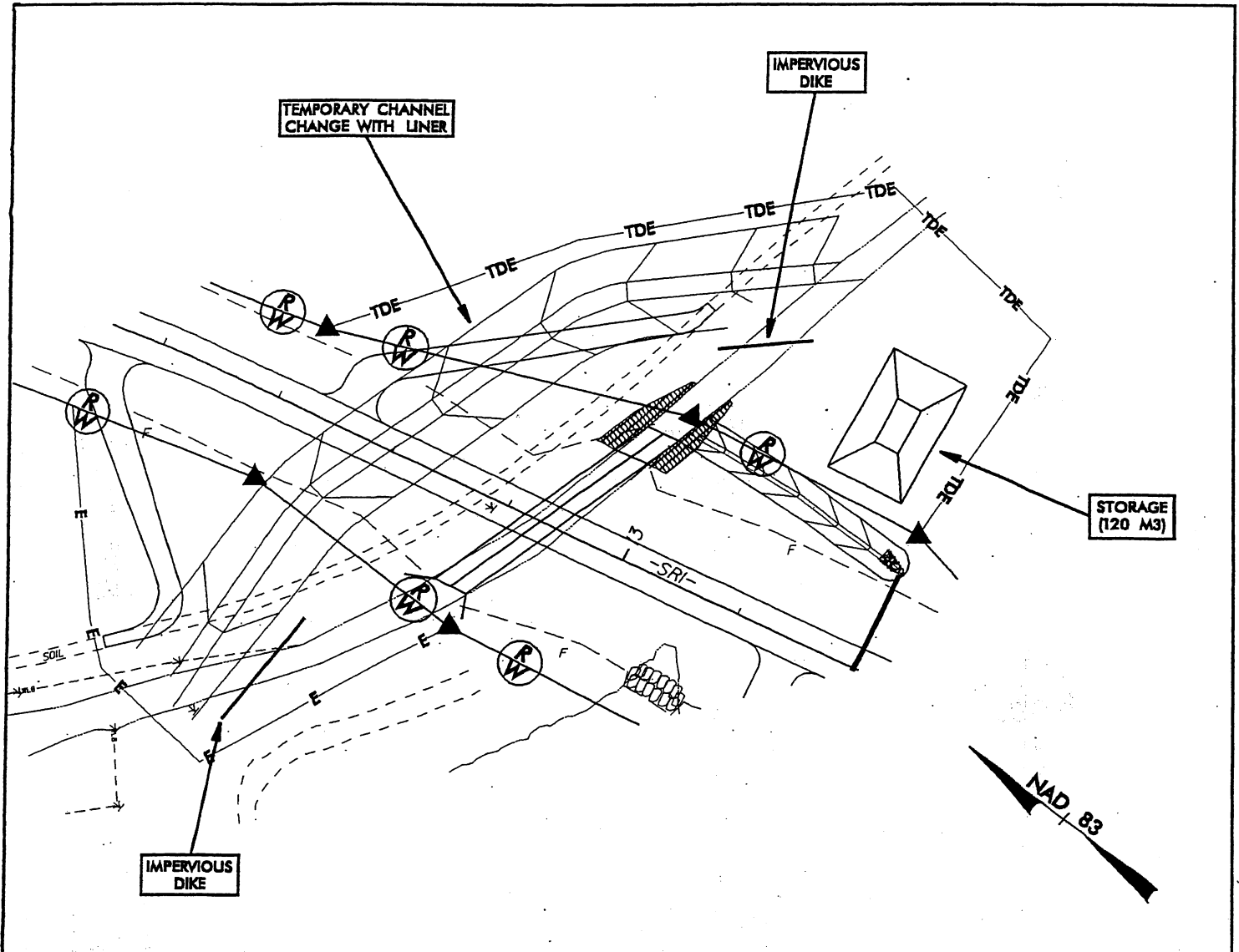
HORIZONTAL SCALE



- DENOTES FILL IN SURFACE WATER (POND)
- DENOTES FILL IN SURFACE WATER
- DENOTES TEMPORARY FILL IN SURFACE WATER
- DENOTES EXCAVATION IN WETLAND
- DENOTES TEMPORARY FILL IN WETLAND

STA. 12 + 86.5 -SR1- CULVERT CONSTRUCTION SEQUENCE

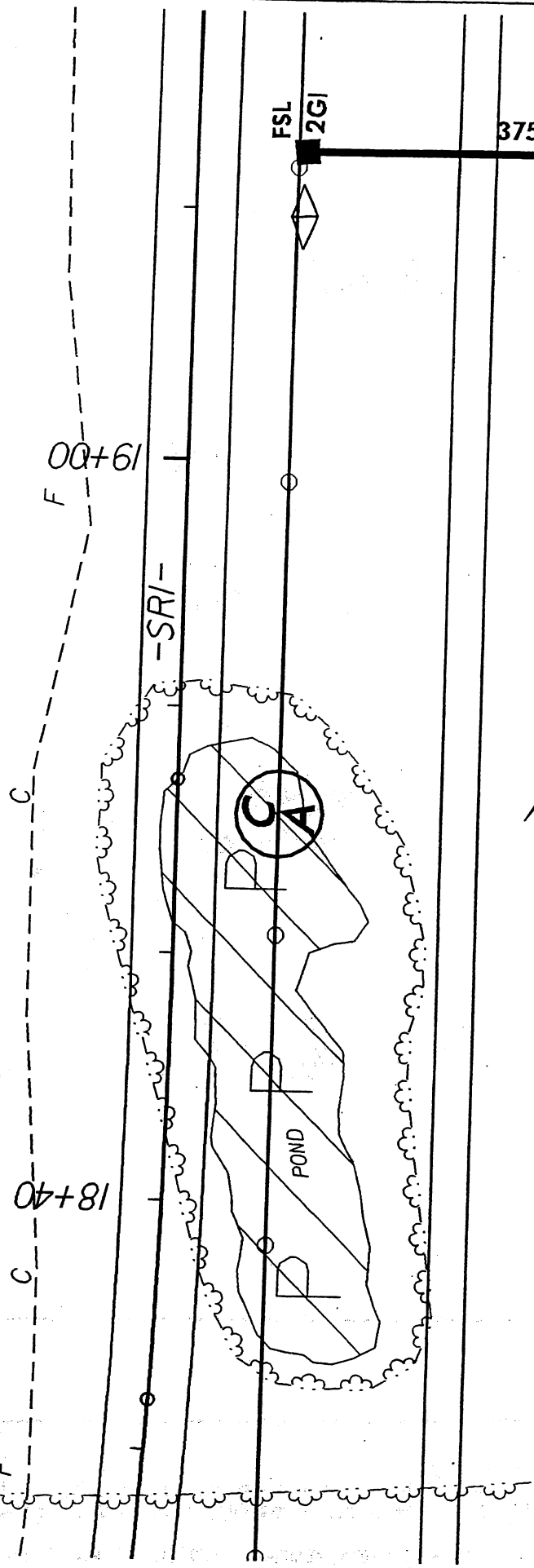
	PROJECT REFERENCE NO.	SHEET NO.
	R-0513BA	
	R/W SHEET NO.	
	ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
CONST.REV.		
R/W REV.		



1. CONSTRUCT STILLING BASIN (120 M3).
2. CONSTRUCT TEMPORARY CHANNEL CHANGE WITH LINER (3:1 SIDE SLOPES, 2M BASE, 1.5M DEEP).
3. CONSTRUCT IMPERVIOUS DIKES, DIVERTING FLOW THROUGH TEMPORARY CHANNEL CHANGE.
4. CONSTRUCT CULVERT.
5. CONSTRUCT ANY NECESSARY CHANNEL IMPROVEMENTS AND DIVERT FLOW THROUGH CULVERT.
6. COMPLETE ROADWAY.

⑨

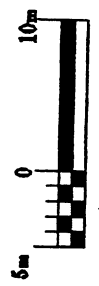
ALVIN RAY LOWRY



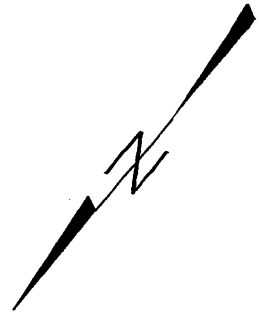
PLAN VIEW
SITE # 3

NCDOT
DIVISION OF HIGHWAYS
ROBESON COUNTY
PROJECT: 6.469002T (R-513BA)
MAXTON-LUMBERTON
US 74 FROM EAST OF SR 1166
TO WEST OF SR 1157

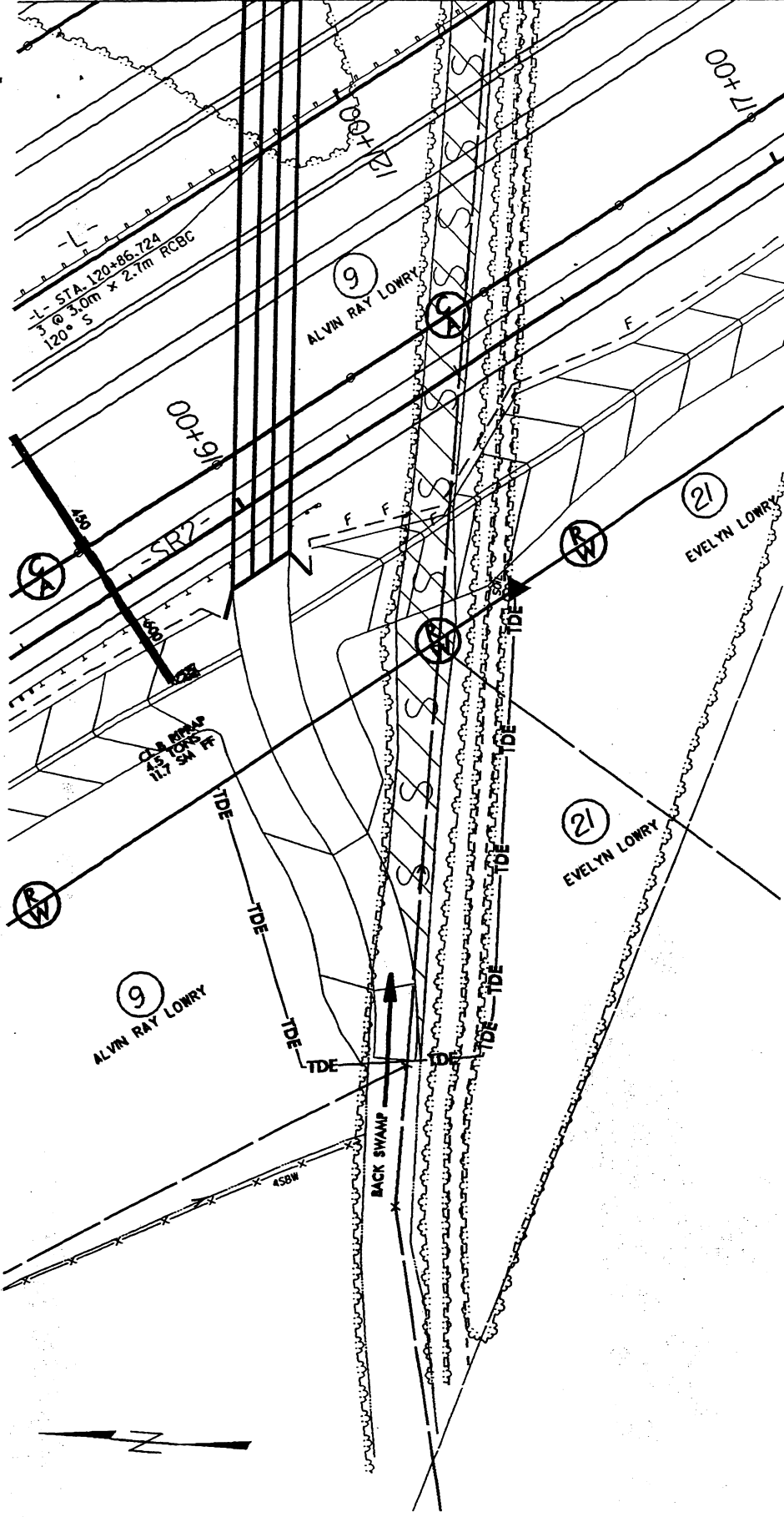
 DENOTES FILL IN
 SURFACE WATER
 (POND)



HORIZONTAL SCALE



MATCH LINE A - A



NCDOT

DIVISION OF HIGHWAYS

ROBESON COUNTY

PROJECT: 6.469002T (R-513BA)

MAXTON-LUMBERTON

US 74 FROM EAST OF SR 1166

TO WEST OF SR 1157

SHEET 10 OF 23

9/18/03

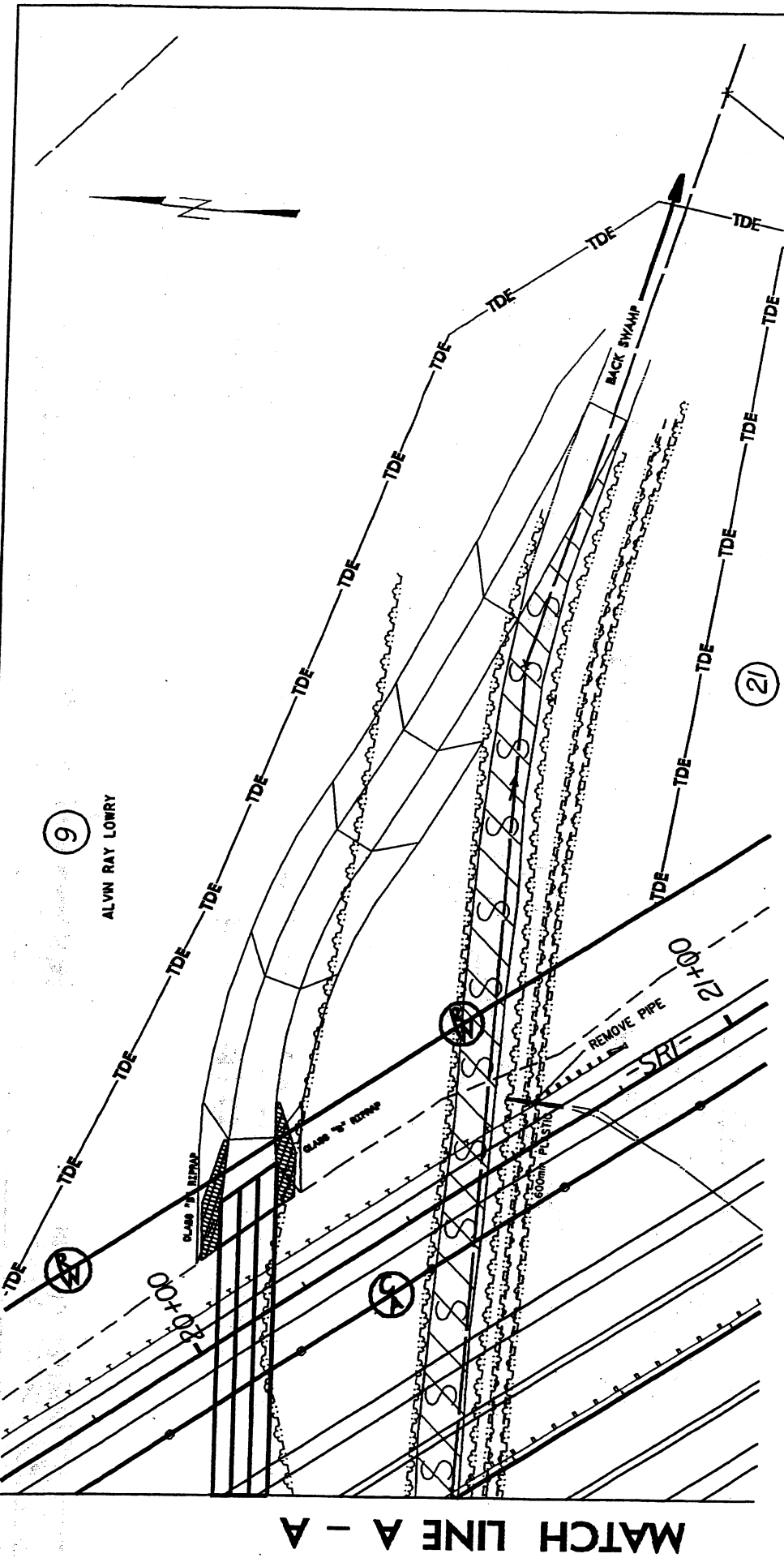
PLAN VIEW
SITE # 4



HORIZONTAL SCALE

DENOTES FILL IN
SURFACE WATER





MATCH LINE A - A

NCDOT
 DIVISION OF HIGHWAYS
 ROBESON COUNTY
 PROJECT: 6.469002T (R-513BA)
 MAXTON-LUMBERTON
 US 74 FROM EAST OF SR 1166
 TO WEST OF SR 1157
 SHEET / I OF 23 9 / 18 / 03

PLAN VIEW
SITE # 4



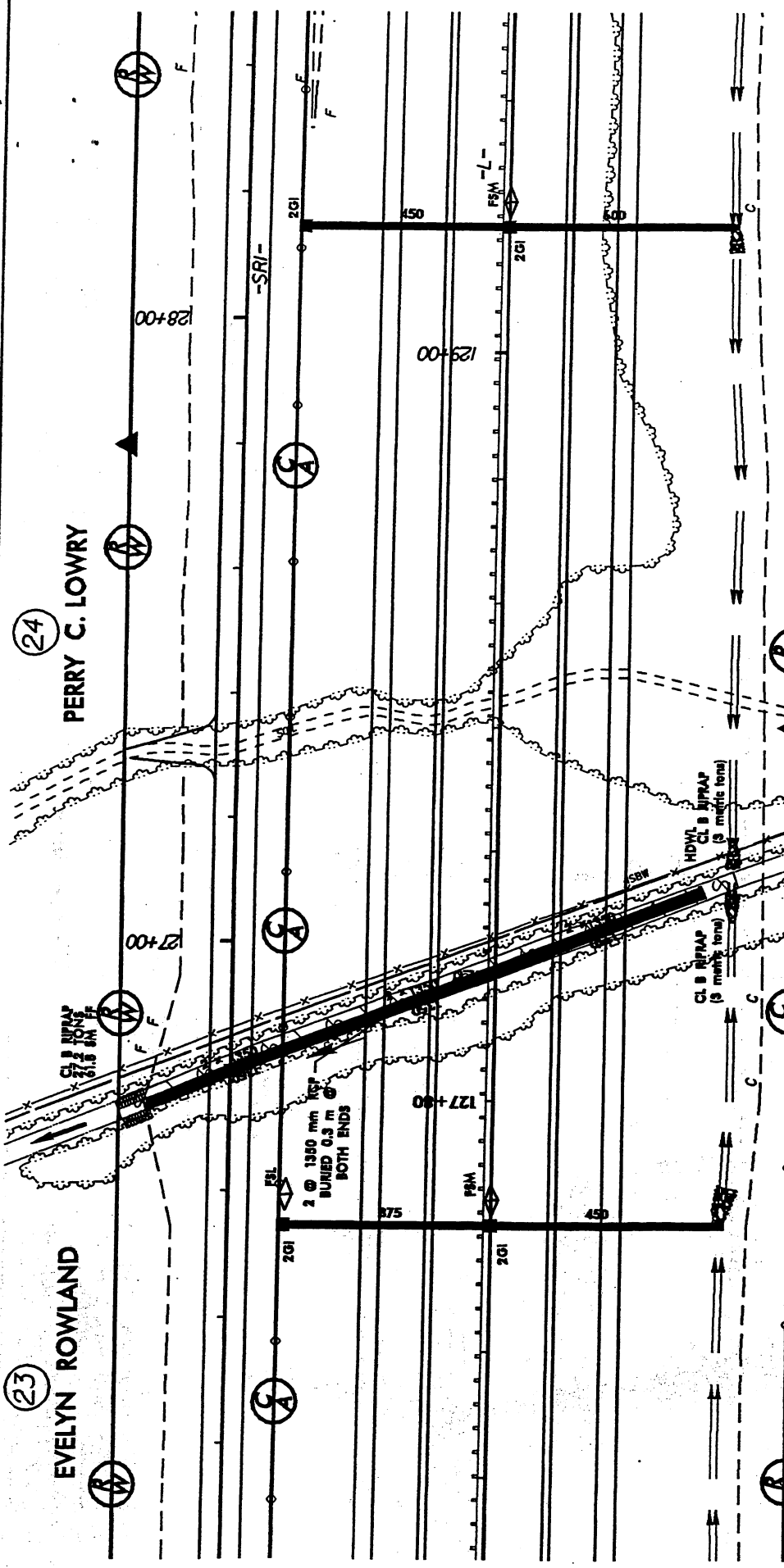
HORIZONTAL SCALE

DENOTES FILL IN
 SURFACE WATER



(24) PERRY C. LOWRY

(23) EVELYN ROWLAND



NCDOT
 DIVISION OF HIGHWAYS
 ROBESON COUNTY
 PROJECT: 6.469002T (R-513BA)
 MAXTON-LUMBERTON
 US 74 FROM EAST OF SR 1166
 TO WEST OF SR 1157
 SHEET 12 OF 23 9/18/03

(24) PERRY C. LOWRY

PLAN VIEW
SITE # 5



DENOTES FILL IN
SURFACE WATER



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DIVISION OF HIGHWAYS

ROBESON COUNTY

PROJECT: 6.469002T (R-513BA)

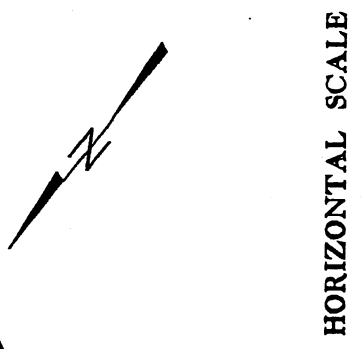
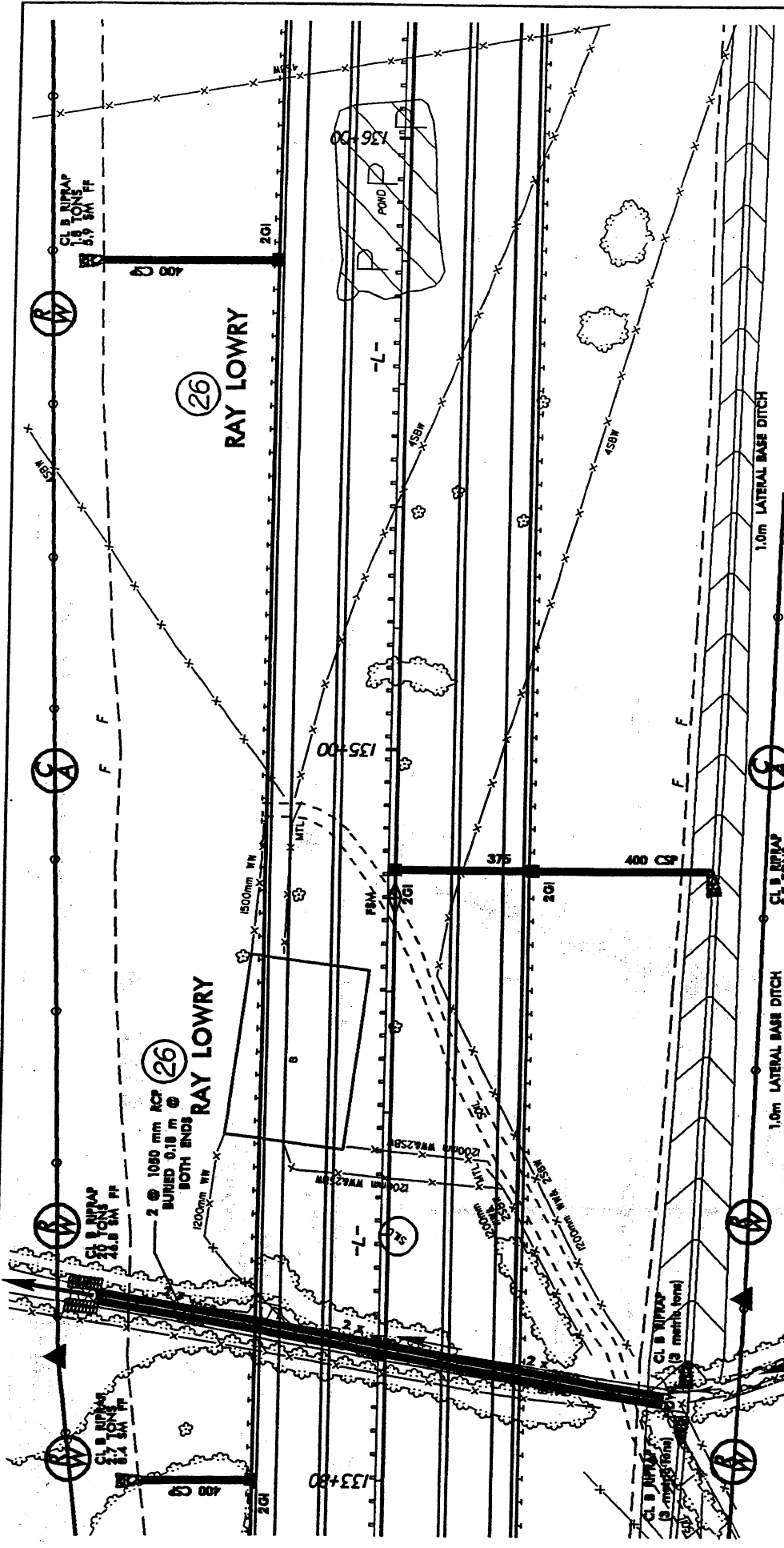
MAXTON-LUMBERTON



US 74 FROM EAST OF SR 1166

TO WEST OF SR 1157.

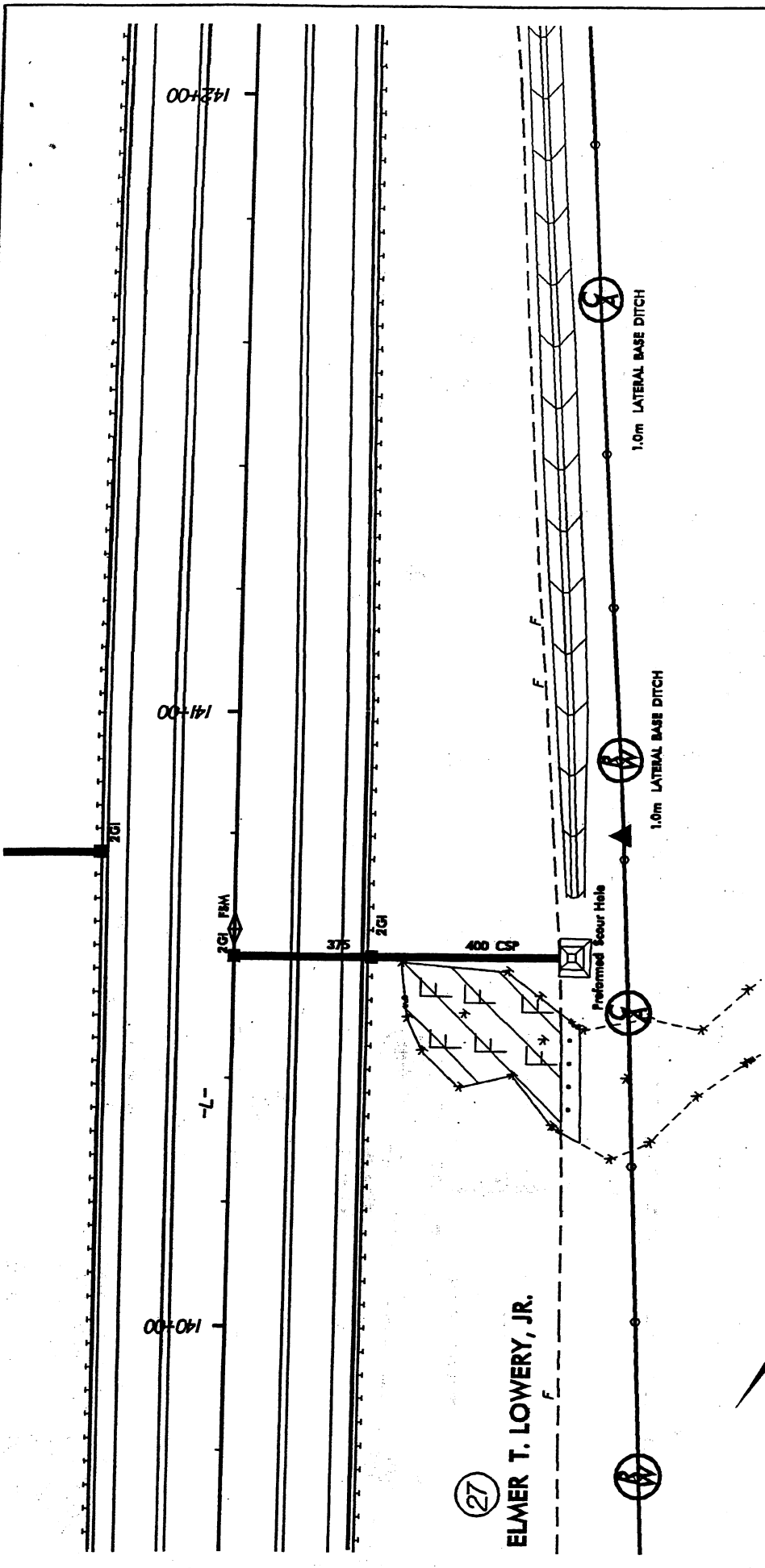
SHEET /3 OF 23

9/18/03



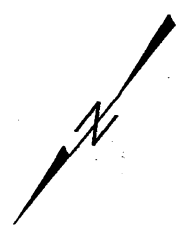
-  DENOTES FILL IN SURFACE WATER (POND)
-  DENOTES FILL IN SURFACE WATER

RAY LOWRY
PLAN VIEW
SITE # 6



(27)

ELMER T. LOWERY, JR.



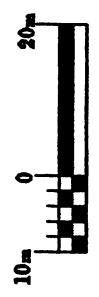
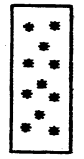
PLAN VIEW

SITE # 7

DENOTES FILL IN WETLAND

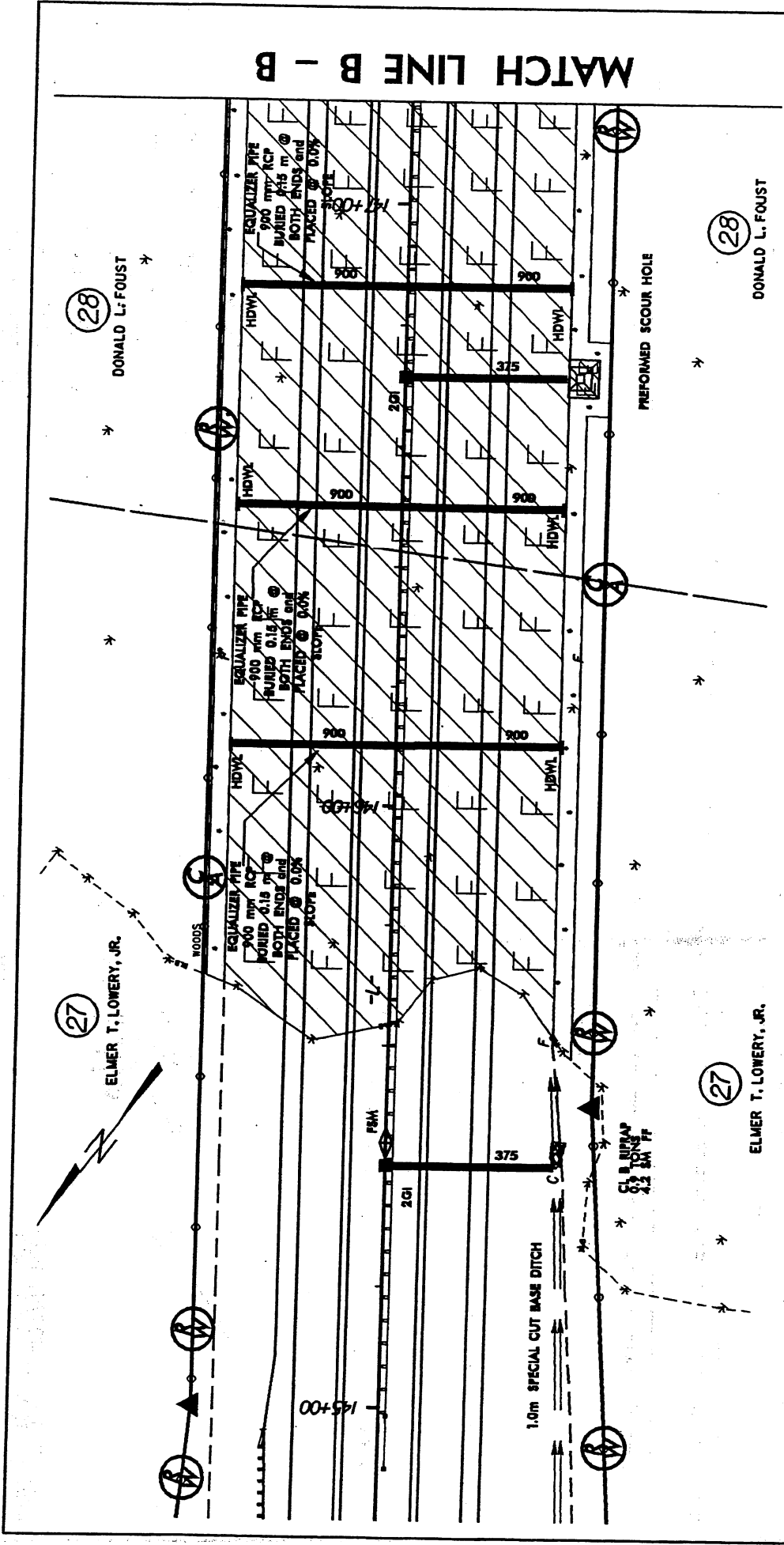


DENOTES MECHANIZED CLEARING



HORIZONTAL SCALE

NCDOT
 DIVISION OF HIGHWAYS
 ROBESON COUNTY
 PROJECT: 6.469002T (R-513BA)
 MAXTON-LUMBERTON
 US 74 FROM EAST OF SR 1166
 TO WEST OF SR 1157
 SHEET 1/4 OF 23 9/18/03



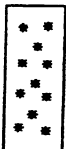


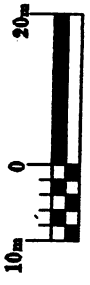
MATCH LINE B - B

PLAN VIEW
SITE # 8

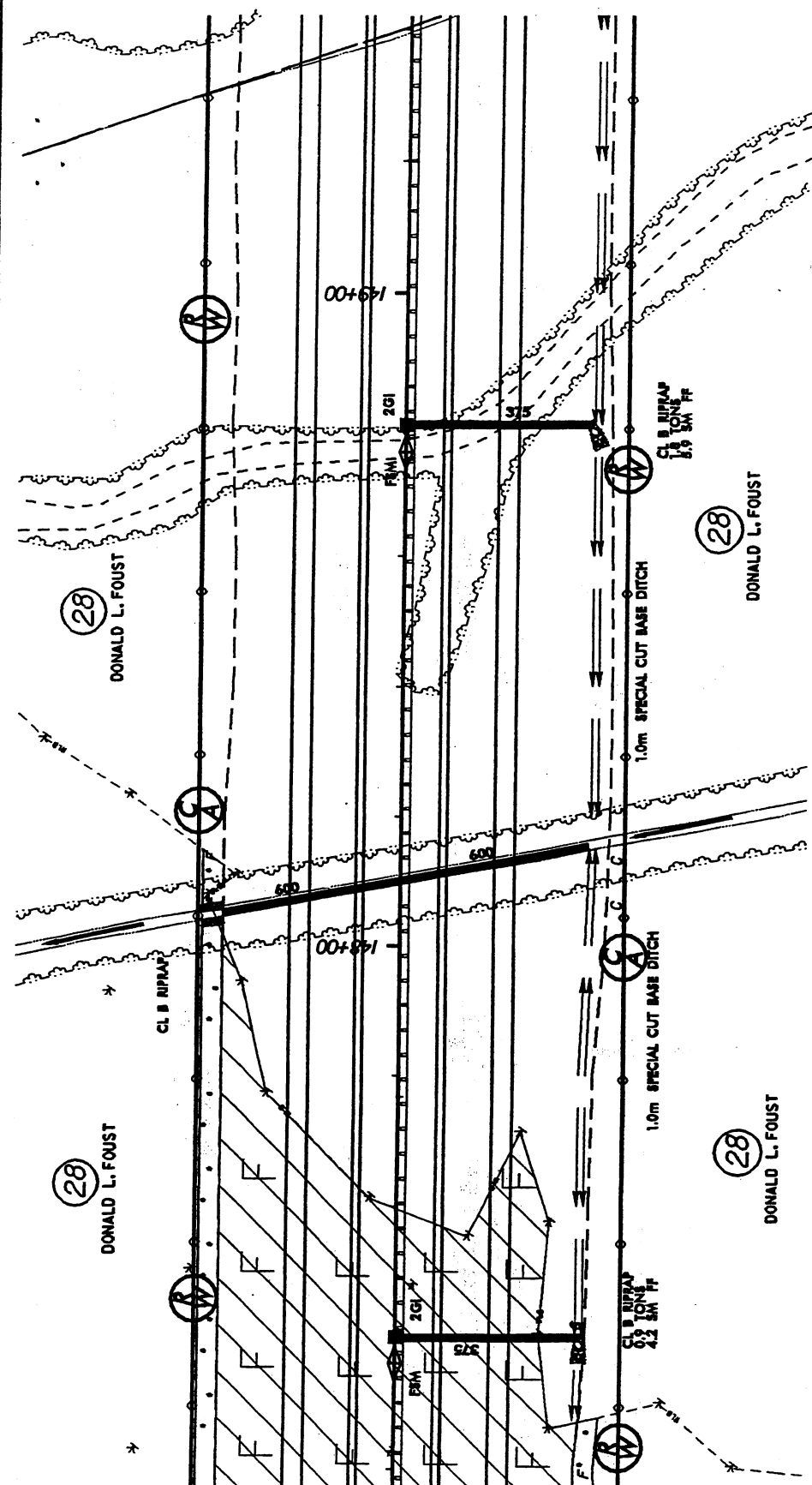
NCDOT
DIVISION OF HIGHWAYS
ROBESON COUNTY
PROJECT: 6.469002T (R-513BA)
MAXTON-LUMBERTON
US 74 FRPM EAST OF SR 1166
TO WEST OF SR 1157

SHEET 15 OF 23 9/18/03

-  DENOTES FILL IN WETLAND
-  DENOTES EXCAVATION IN WETLAND
-  DENOTES MECHANIZED CLEARING


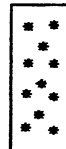


HORIZONTAL SCALE



MATCH LINE B - B

PLAN VIEW
SITE # 8

-  DENOTES FILL IN WETLAND
-  DENOTES MECHANIZED CLEARING



HORIZONTAL SCALE



NCDOT
 DIVISION OF HIGHWAYS
 ROBESON COUNTY
 PROJECT: 6.469002T (R-513BA)
 MAXTON-LUMBERTON
 US 74 FROM EAST OF SR 1166
 TO WEST OF SR 1157
 SHEET 16 OF 23 9/18/03

NCDOT

DIVISION OF HIGHWAYS

ROBESON COUNTY

PROJECT: 6.469002T (R-513BA)

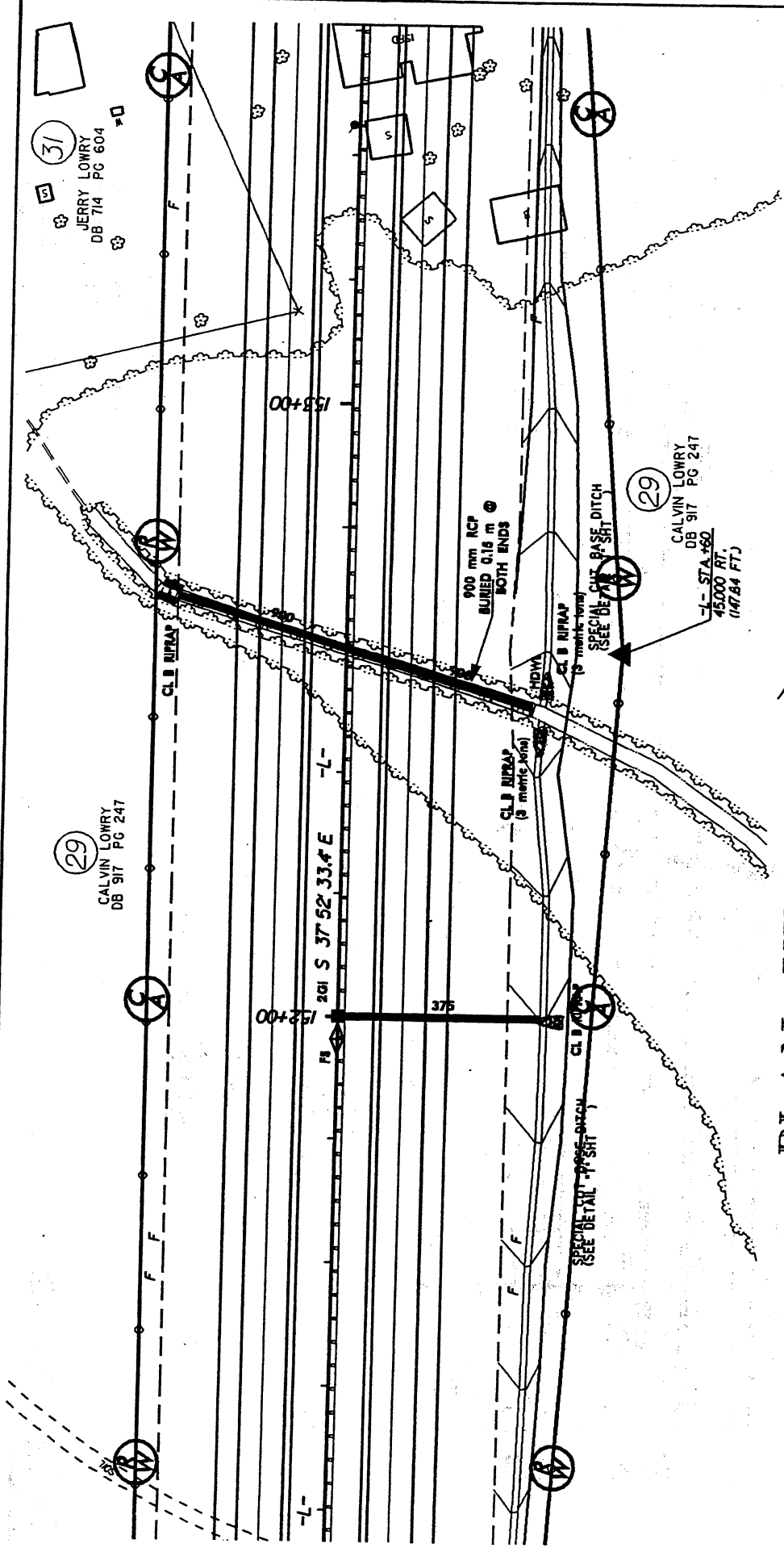
MAXTON-LUMBERTON

US 74 FROM EAST OF SR 1166

TO WEST OF SR 1157

SHEET / 7 OF 23 · 9 / 18 / 03

PLAN VIEW SITE # 9

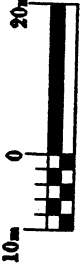


31
JERRY LOWRY
DB 714 PG 604

29
CALVIN LOWRY
DB 917 PG 247

29
CALVIN LOWRY
DB 917 PG 247
-L- STA. +60
45000 RT.
(147.84 FT.)

DENOTES FILL IN
SURFACE WATER



HORIZONTAL SCALE

WETLAND PERMIT IMPACT SUMMARY

Site No.	Station (From/To)	Structure Size / Type	WETLAND IMPACTS				SURFACE WATER IMPACTS				Natural Stream Design (ft)		
			Fill In Wetlands (ac)	Temp. Fill In Wetlands (ac)	Excavation In Wetlands (ac)	Mechanized Clearing (Method III) (ac)	Fill In SW (Natural) (ac)	Fill In SW (Pond) (ac)	Temp. Fill In SW (ac)	Existing Channel Impacted (ft)			
1	85+80 to 87+14.77 -L-	NONE	2.009			0.18							
1A	14+19.67 -RPB- 14+40 -Y1-	2 @ 2.4 m. x 1.8 m. RCBC 2 @ 2.4 m. x 1.8 m. RCBC	0.03		0.012		0.24			640			
2	12+86 -SR1-	2 @ 2.4 m. x 1.8 m. RCBC		0.002	0.002		0.049	0.015	0.017	135			
3	18+28 to 18+78 -SR1-	POND						0.133					
4	120+86 -L-	3 @ 3.0 m. x 2.7 m. RCBC					0.524			1132			
5	128+01 -L-	2 @ 1050 mm RCP					0.082			341			
6	134+00 to 136+00 -L-	2 @ 900 mm RCP and POND					0.079	0.126		338			
7	140+30 to 140+60 -L-	NONE	0.109			0.015							
8	145+58 to 148+15 -L-	3 @ 750 mm and 600 mm	2.265		0.007	0.304							
TOTALS:			4.413	0.002	0.021	0.499	0.974	0.274	0.017	2586			0

NCDOT

DIVISION OF HIGHWAYS
ROBESON COUNTY
PROJECT 6.469002T (R-513BA)
MAXTON-LUMBERTON
US 74 FROM EAST OF SR 1166
TO WEST OF SR 1157

WETLAND PERMIT IMPACT SUMMARY

Site No.	Station (From/To)	Structure Size / Type	WETLAND IMPACTS			SURFACE WATER IMPACTS				Natural Stream Design (ft)		
			Fill In Wetlands (ac)	Temp. Fill In Wetlands (ac)	Excavation In Wetlands (ac)	Mechanized Clearing (Method III) (ac)	Fill In SW (Natural) (ac)	Fill In SW (Pond) (ac)	Temp. Fill In SW (ac)		Existing Channel Impacted (ft)	
9	152+50.86 to 152+68.61 -L-	900 mm RCP					0.027					
SUB-TOTAL SHEET #1			4.413	0.002	0.021	0.499	0.974	0.274	0.017	2586	0	
GRAND TOTAL:			4.413	0.002	0.021	0.499	1.001	0.274	0.017	2586	0	

NCDOT

DIVISION OF HIGHWAYS
 ROBESON COUNTY
 PROJECT 6.469002T (R-513BA)
 MAXTON-LUMBERTON
 US 74 FROM EAST OF SR 1166
 TO WEST OF SR 1157

WETLAND PERMIT IMPACT SUMMARY

Site No.	Station (From/To)	Structure Size / Type	WETLAND IMPACTS				SURFACE WATER IMPACTS				Natural Stream Design (m)		
			Fill In Wetlands (ha)	Temp. Fill In Wetlands (ha)	Excavation In Wetlands (ha)	Mechanized Clearing (Method III) (ha)	Fill In SW (Natural) (ha)	Fill In SW (Pond) (ha)	Temp. Fill In SW (ha)	Existing Channel Impacted (m)			
1	85+80 to 87+14.77 -L-	NONE	0.813			0.073							
1A	14+19.67 -RPB- 14+40 -Y1-	2 @ 2.4 m. x 1.8 m. RCBC 2 @ 2.4 m. x 1.8 m. RCBC	0.012		0.005				0.097				195
2	12+86 -SR1-	2 @ 2.4 m. x 1.8 m. RCBC		0.001	0.001				0.02	0.006	0.007		41
3	18+28 to 18+78 -SR1-	POND								0.054			
4	120+86 -L-	3 @ 3.0 m. x 2.7 m. RCBC							0.212				345
5	128+01 -L-	2 @ 1050 mm RCP							0.033				104
6	134+00 to 136+00 -L-	2 @ 900 mm RCP and POND							0.032	0.051			103
7	140+30 to 140+60 -L-	NONE	0.044			0.006							
8	145+58 to 148+15 -L-	3 @ 750 mm and 600 mm	0.917		0.003	0.123							
TOTALS:			1.786	0.001	0.009	0.202		0.394	0.111	0.007	788		0

NCDOT

DIVISION OF HIGHWAYS
ROBESON COUNTY
PROJECT 6.469002T (R-513BA)
MAXTON-LUMBERTON
US 74 FROM EAST OF SR 1166
TO WEST OF SR 1157

WETLAND PERMIT IMPACT SUMMARY

Site No.	Station (From/To)	Structure Size / Type	WETLAND IMPACTS				SURFACE WATER IMPACTS							
			Fill In Wetlands (ha)	Temp. Fill In Wetlands (ha)	Excavation In Wetlands (ha)	Mechanized Clearing (Method III) (ha)	Fill In SW (Natural) (ha)	Fill In SW (Pond) (ha)	Temp. Fill In SW (ha)	Existing Channel Impacted (m)	Natural Stream Design (m)			
9	152+50.88 to 152+68.61 -L-	900 mm RCP					0.011							
SUB-TOTAL SHEET #1			1.786	0.001	0.009	0.202	0.394	0.111	0.007	788	0			
GRAND TOTAL:			1.786	0.001	0.009	0.202	0.405	0.111	0.007	788	0			

NCDOT
 DIVISION OF HIGHWAYS
 ROBESON COUNTY
 PROJECT 6.469002T (R-513BA)
 MAXTON-LUMBERTON
 US 74 FROM EAST OF SR 1166
 TO WEST OF SR 1157

PROPERTY OWNERS

NAMES AND ADDRESSES

PARCEL NO.	NAMES	ADDRESSES
56	CHARLEA DAVIS	149 NELSON DR. MAXTON, NC 28364
1	ALAN LOCKLEAR	1306 OLD BAKER RD. MAXTON, NC 28364
4	CARLEE S. LOWRY	2252 HENRY BERRY RD. ROWLAND, NC 28383
5	EULA MAE HUNT, ET AL	1217 NC HWY 710 S. ROWLAND, NC 28383
6	MARK STRICKLAND	1457 NC HWY 710 S. ROWLAND, NC 28383
16	SAMUEL STRICKLAND	77 RUBY ROAD ROWLAND, NC 28383
17	RUFUS STRICKLAND	RT. 3 BOX 251 A1 ROWLAND, NC 28383
9	ALVIN RAY LOWRY	1565 NC HWY 710 S. ROWLAND, NC 28383
21	EVELYN LOWRY	2129 NC HWY 710 S. ROWLAND, NC 28383
23	EVELYN ROWLAND	7811 DOGWOOD TRAIL HAUGHTON, LA 71037
24	PERRY C. LOWRY	16620 MUSIC GROVE CT. ROCKVILLE, MD 20853
26	RAY LOWRY	1565 NC HWY 710 S. ROWLAND, NC 28383
27	ELMER T. LOWERY, JR.	RT. 3 BOX 137 ROWLAND, NC 28383
28	DONALD L. FOUST	3676 UNION SCHOOL ROAD ROWLAND, NC 28383

NCDOT

DIVISION OF HIGHWAYS

ROBESON COUNTY

PROJECT: 6.469002T (R-513BA)

MAXTON-LUMBERTON

US 74 FROM EAST OF SR 1166

TO WEST OF SR 1157

SHEET 22 OF 23

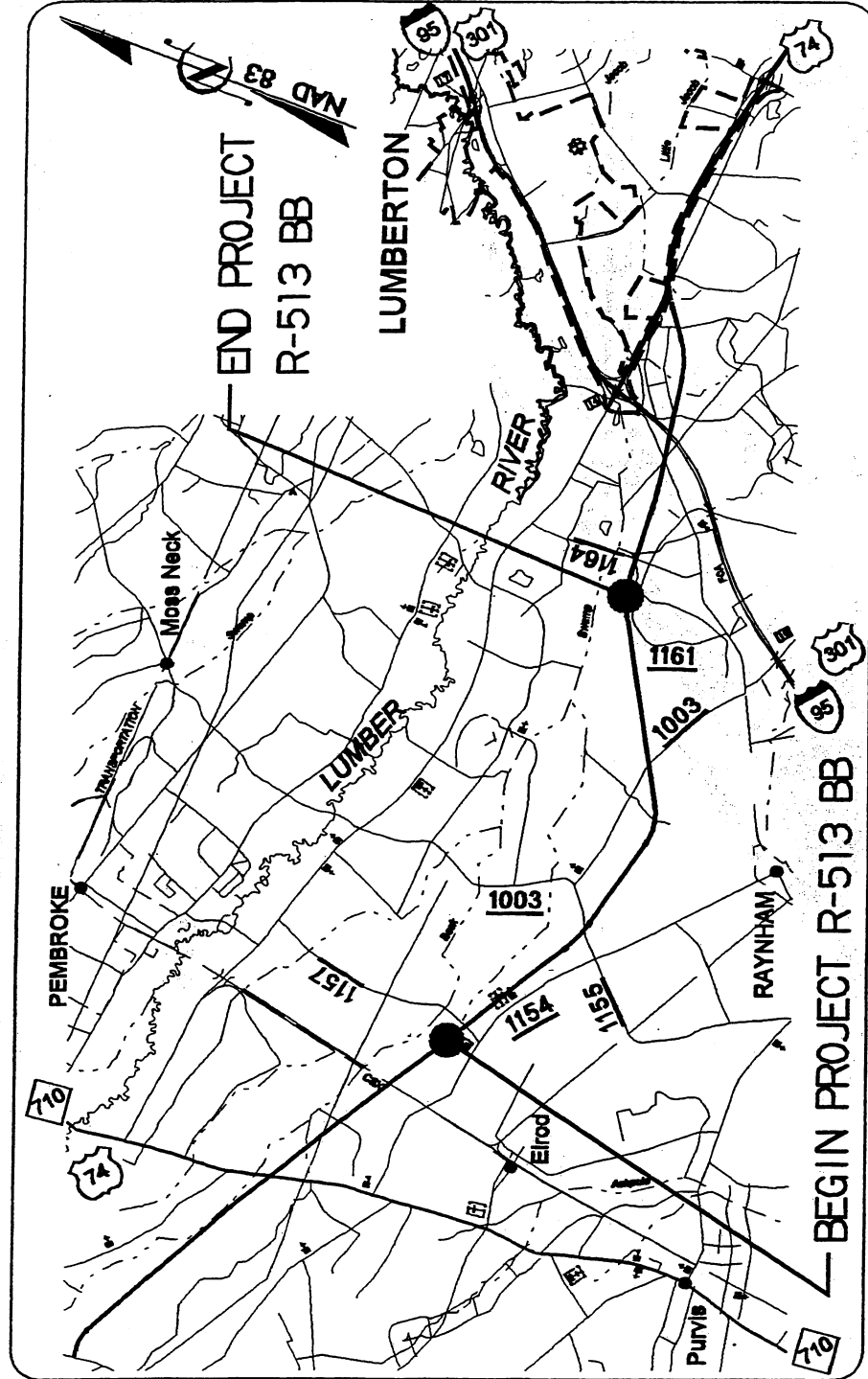
9/18/03

PROPERTY OWNERS

NAMES AND ADDRESSES

PARCEL NO.	NAMES	ADDRESSES
29	CALVIN LOWRY	2252 HENRY BERRY ROAD ROWLAND, NC 28383
31	JERRY LOWRY	2252 HENRY BERRY ROAD ROWLAND, NC 28383

NCDOT
DIVISION OF HIGHWAYS
ROBESON COUNTY
PROJECT: 6.469002T (R-513BA)
MAXTON-LUMBERTON
US 74 FROM EAST OF SR 1166
TO WEST OF SR 1157
SHEET 23 OF 23



NCDOT

DIVISION OF HIGHWAYS

ROBESON COUNTY

PROJECT: 6.469002T (R-513BB)

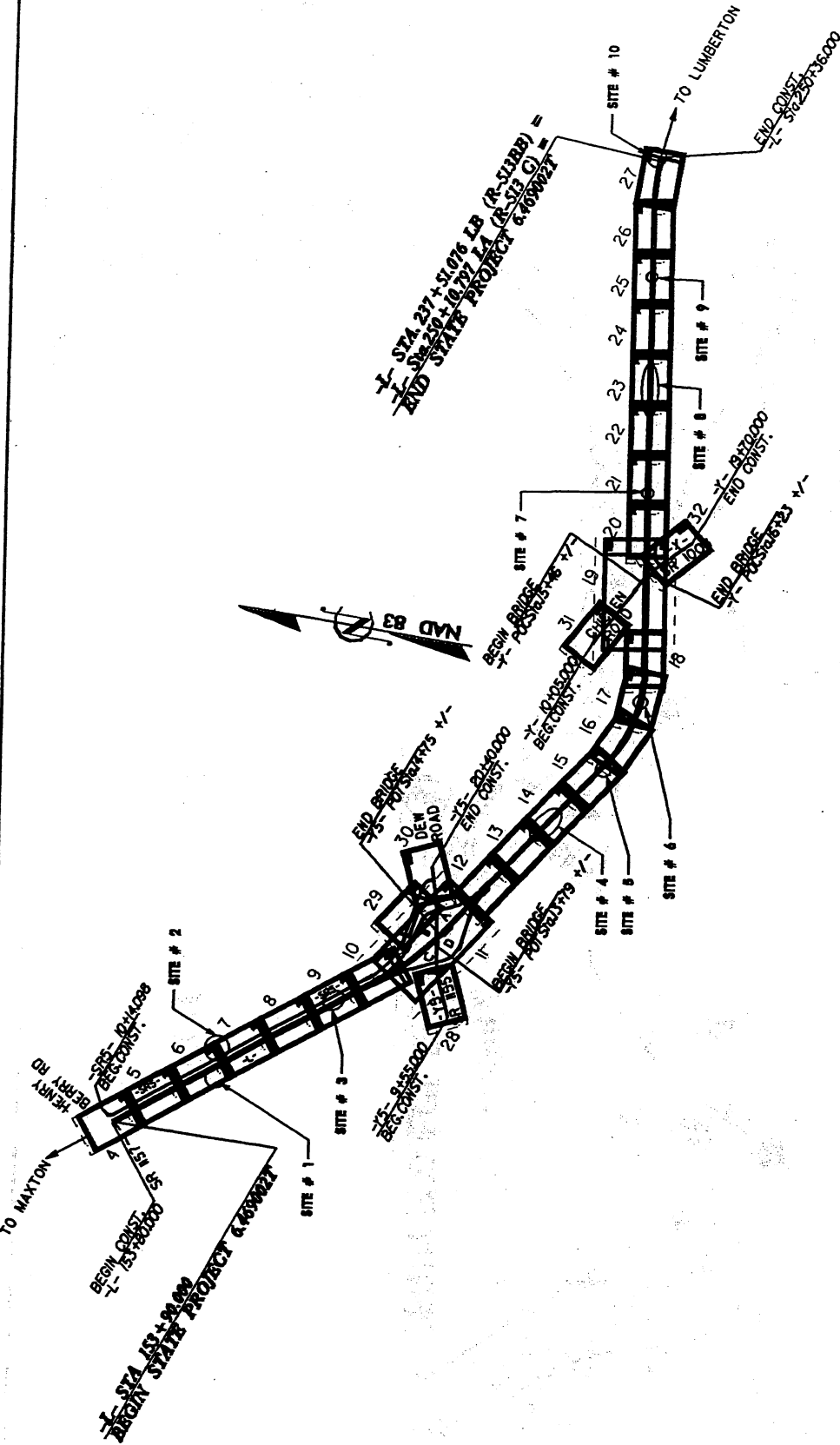
MAXTON-LUMBERTON

US 74 FROM WEST OF SR 1157

TO WEST OF SR 1164

SHEET 1 OF 18 9/18/03

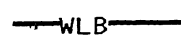
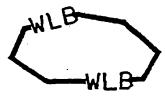
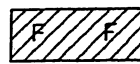
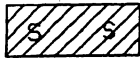

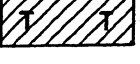
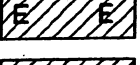
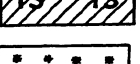


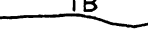
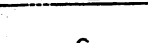



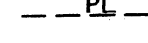




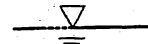
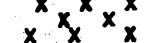



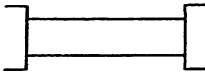
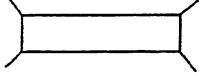


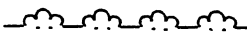
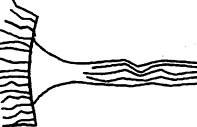




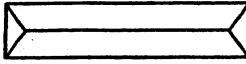
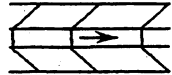
VICINITY MAP



NCDOT
DIVISION OF HIGHWAYS
ROBESON COUNTY
PROJECT: 6-469002T (R-513BB)
MAXTON-LUMBERTON
US 74 FROM WEST OF SR 1157
TO WEST OF SR. 1164
SHEET 2 OF 18 9/18/03

SITE LOCATION

WETLAND LEGEND

-  WETLAND BOUNDARY
-  WETLAND
-  DENOTES FILL IN WETLAND
-  DENOTES FILL IN SURFACE WATER
-  DENOTES FILL IN SURFACE WATER (POND)
-  DENOTES TEMPORARY FILL IN WETLAND
-  DENOTES EXCAVATION IN WETLAND
-  DENOTES TEMPORARY FILL IN SURFACE WATER
-  DENOTES MECHANIZED CLEARING
-  FLOW DIRECTION
-  TOP OF BANK
-  EDGE OF WATER
-  PROP. LIMIT OF CUT
-  PROP. LIMIT OF FILL
-  PROP. RIGHT OF WAY
-  NATURAL GROUND
-  PROPERTY LINE
-  TEMP. DRAINAGE EASEMENT
-  PERMANENT DRAINAGE EASEMENT
-  EXIST. ENDANGERED ANIMAL BOUNDARY
-  EXIST. ENDANGERED PLANT BOUNDARY
-  WATER SURFACE
-  LIVE STAKES
-  BOULDER
-  CORE FIBER ROLLS
-  PROPOSED BRIDGE
-  PROPOSED BOX CULVERT
-  PROPOSED PIPE CULVERT
12"-48" PIPES
54" PIPES & ABOVE
(DASHED LINES DENOTE EXISTING STRUCTURES)
-  SINGLE TREE
-  WOODS LINE
-  DRAINAGE INLET
-  ROOTWAD
-  RIP RAP
-  ADJACENT PROPERTY OWNER OR PARCEL NUMBER IF AVAILABLE
-  PREFORMED SCOUR HOLE
-  LEVEL SPREADER (LS)
-  DITCH / GRASS SWALE

NCDOT
 DIVISION OF HIGHWAYS
 ROBESON COUNTY
 PROJECT: 6.469002T (R-513BB)
 MAXTON-LUMBERTON
 US 74 FROM WEST OF SR 1157
 TO WEST OF SR 1164
 SHEET 3 OF 18 9/18/03

⑤ ETHEL LOWRY

-L-

FS
2GI

TYPE "A"

10501

HDWL

161+60

C
A

ETHEL LOWRY ⑤

161+00

R
W

NCDOT

DIVISION OF HIGHWAYS

ROBESON COUNTY

PROJECT: 6.469002T (R-513BB)

MAXTON-LUMBERTON

US 74 FROM WEST OF SR 1157

TO WEST OF SR1164

SHEET 4 OF 18

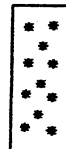
9/18/05

PLAN VIEW
SITE # 1

DENOTES FILL IN
WETLAND



DENOTES MECHANIZED
CLEARING



HORIZONTAL SCALE

19+60

19+00

LOIS OXENDINE (6)

SPECIAL FILL DITCH

CL B RIPRAP

CL B RIPRAP

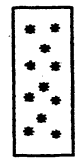
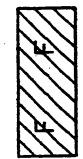
LOIS OXENDINE (6)

-SR5-

009



FS



DENOTES FILL IN WETLAND

DENOTES MECHANIZED CLEARING



HORIZONTAL SCALE

NCDOT

DIVISION OF HIGHWAYS

ROBESON COUNTY

PROJECT: 6.469002T (R-513BB)

MAXTON-LUMBERTON

US 74 FROM WEST OF SR 1157

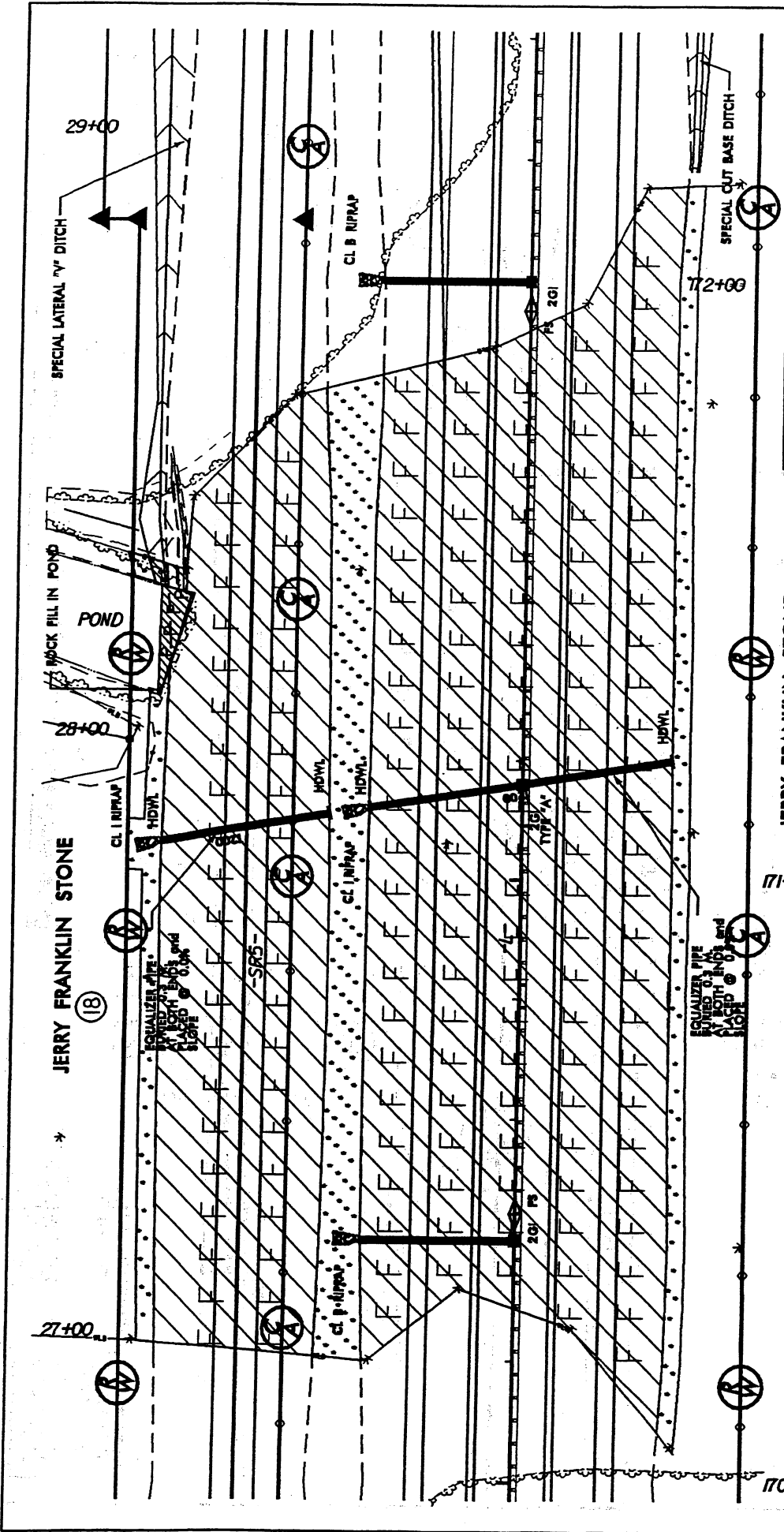
TO WEST OF SR 1164

SHEET 5 OF 8

9/18/03




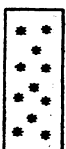
PLAN VIEW

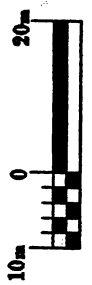
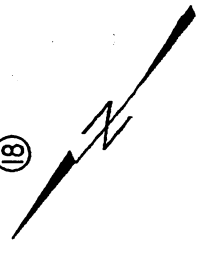
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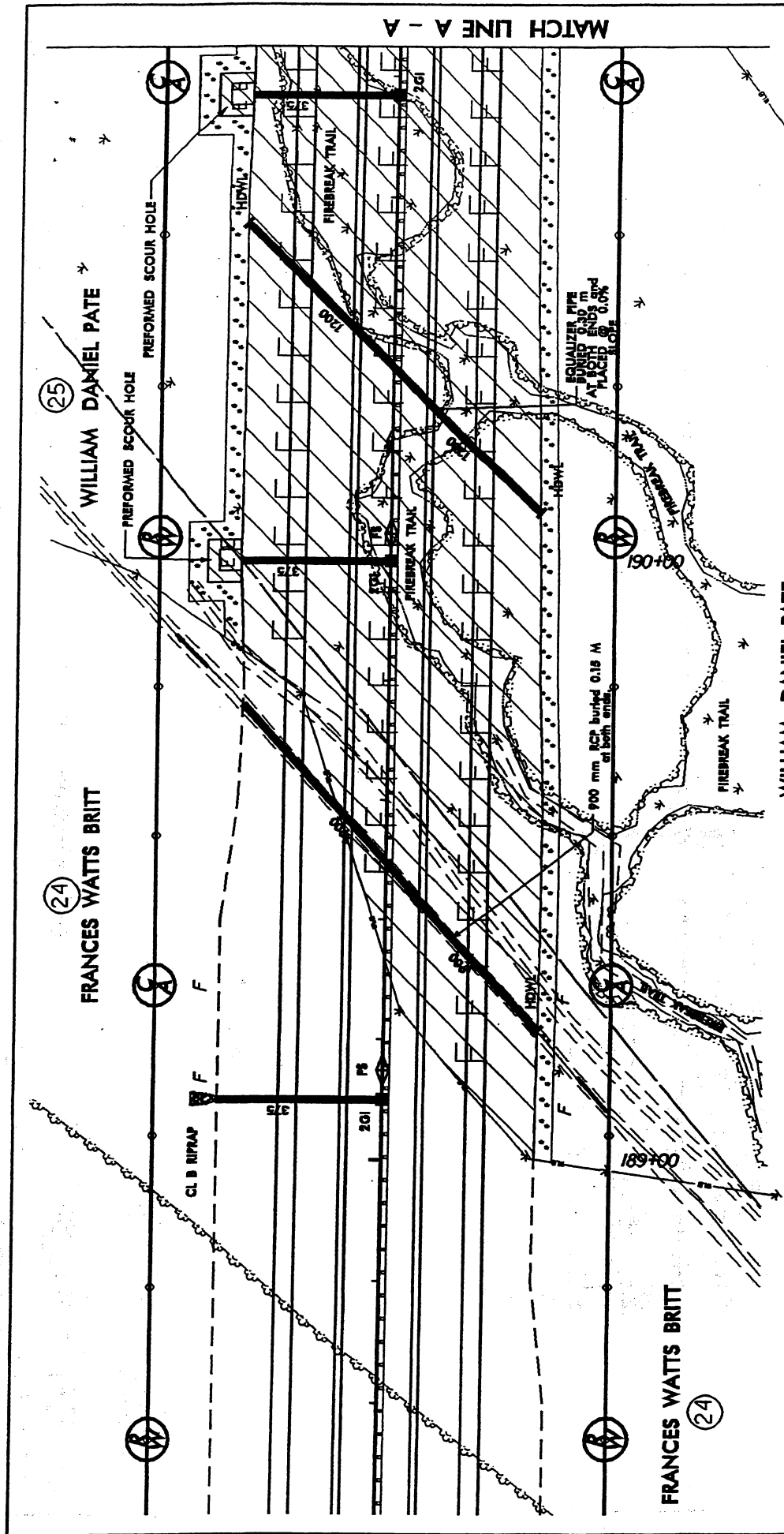
NCDOT
 DIVISION OF HIGHWAYS
 ROBESON COUNTY
 PROJECT: 6.469002T (R-513BB)
 MAXTON-LUMBERTON
 US 74 FROM WEST OF SR 1157
 TO WEST OF SR 1164
 SHEET 6 OF 18 9/18/03

PLAN VIEW SITE # 3

-  DENOTES FILL IN SURFACE WATER (POND)
-  DENOTES FILL IN WETLAND
-  DENOTES EXCAVATION IN WETLAND
-  DENOTES MECHANIZED CLEARING





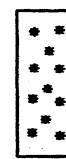
HORIZONTAL SCALE



MATCH LINE A - A

NCDOT
 DIVISION OF HIGHWAYS
 ROBESON COUNTY
 PROJECT: 6.469002T (R-513BB)
 MAXTON-LUMBERTON
 US 74 FROM WEST OF SR 1157
 TO WEST OF SR 1164
 SHEET 7 OF 18 9/18/03

**PLAN VIEW
 SITE # 4**

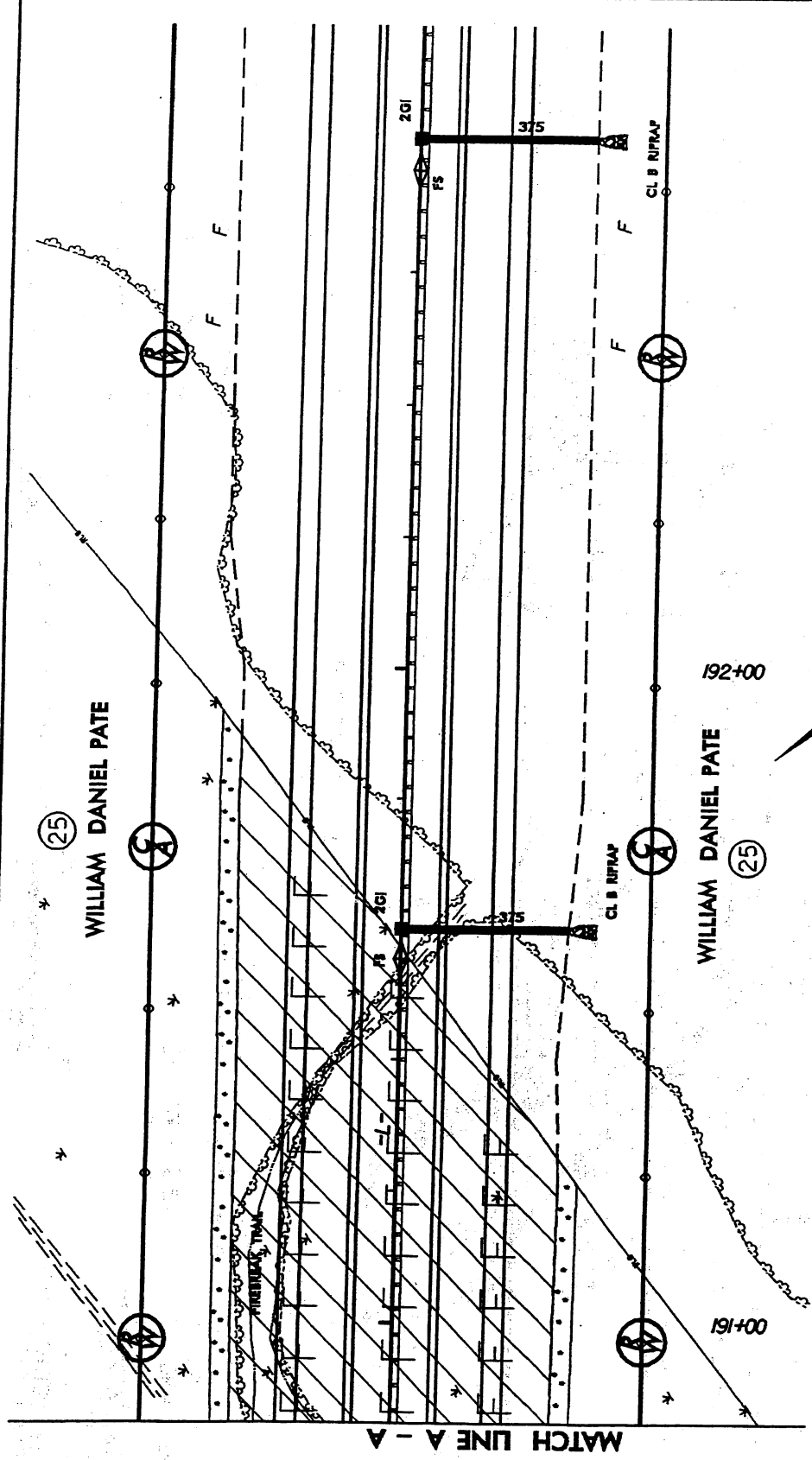
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-  DENOTES EXCAVATION IN WETLAND
-  DENOTES MECHANIZED CLEARING



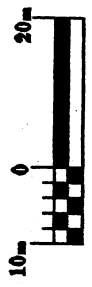
HORIZONTAL SCALE

NCDOT
 DIVISION OF HIGHWAYS
 ROBESON COUNTY
 PROJECT: 6.469002T (R-515BB)
 MAXTON-LUMBERTON
 US 74 FROM WEST OF SR 1157
 TO WEST OF SR 1164
 SHEET 8 OF 18 9/18/03

PLAN VIEW
 SITE # 4

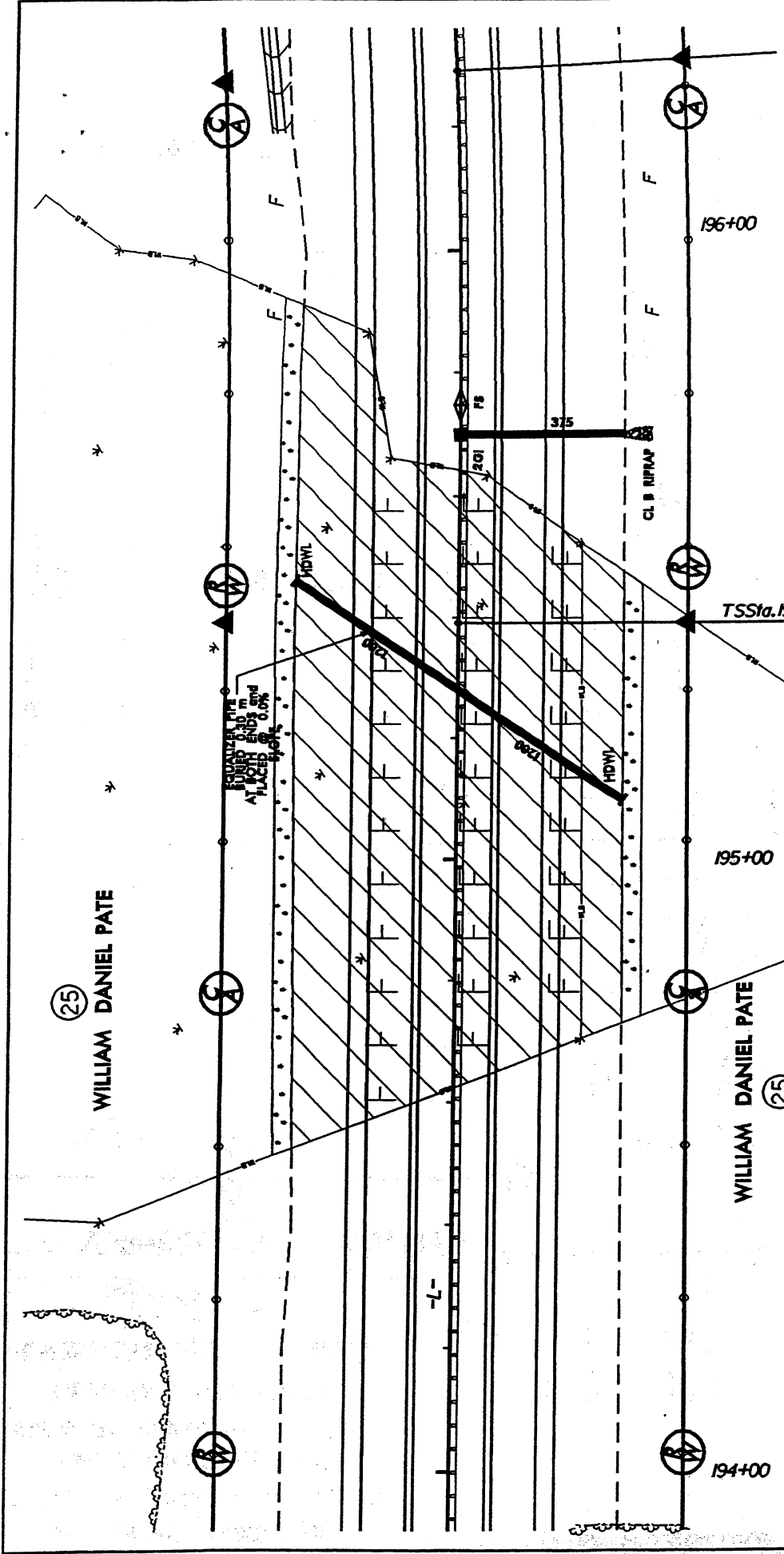


-  DENOTES FILL IN WETLAND
-  DENOTES MECHANIZED CLEARING



HORIZONTAL SCALE

NCDOT
 DIVISION OF HIGHWAYS
 ROBESON COUNTY
 PROJECT: 6.469002T (R-513BB)
 MAXTON-LUMBERTON
 US 74 FROM WEST OF SR 1157
 TO WEST OF SR1164
 SHEET 9 OF 18 9/18/03

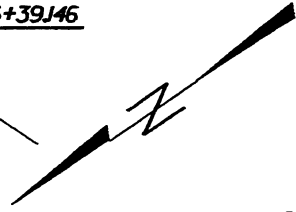


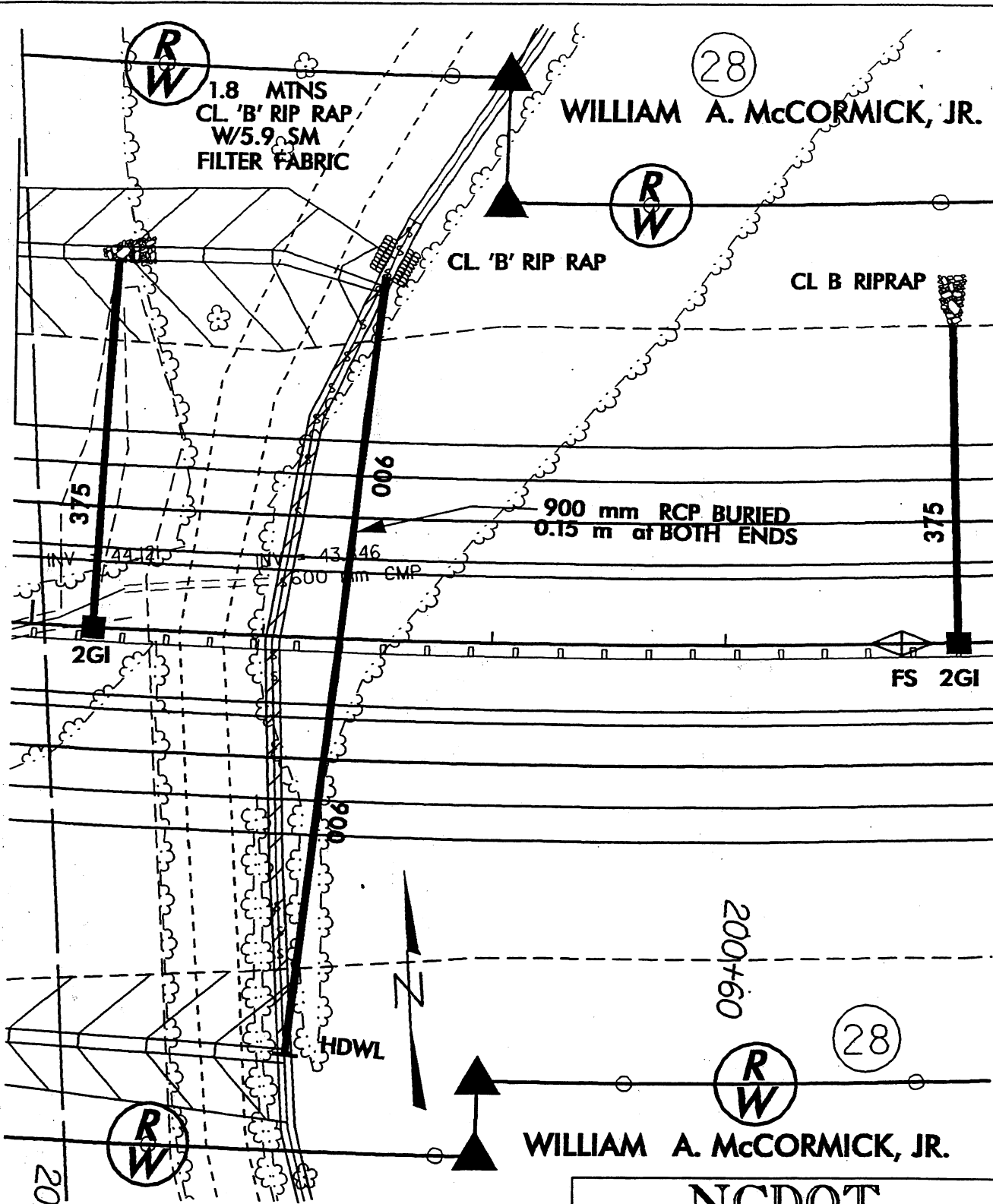
PLAN VIEW
 SITE # 5

-  DENOTES FILL IN WETLAND
-  DENOTES MECHANIZED CLEARING



HORIZONTAL SCALE

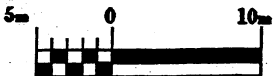




**PLAN VIEW
SITE # 6**



DENOTES FILL IN SURFACE WATER



HORIZONTAL SCALE

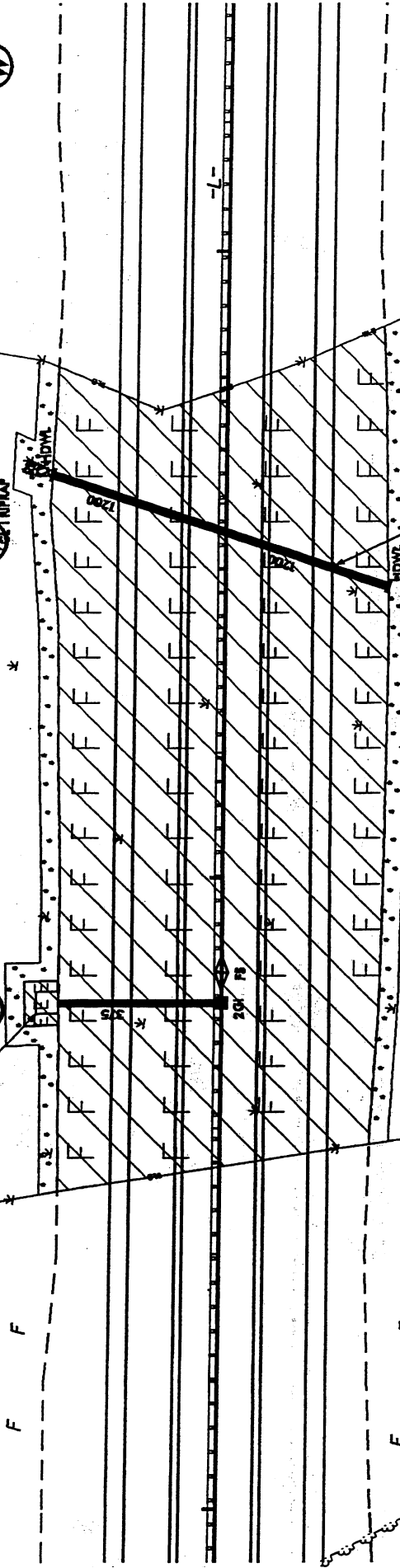
NCDOT
DIVISION OF HIGHWAYS
ROBESON COUNTY
PROJECT: 6.469002T (R-513BB)
MAXON-LUMBERTON
US 74 FROM WEST OF SR 1157
TO WEST OF SR 1164

DAVID H. FULLER

(30)

PERFORMED SCOUR HOLE

F F



DAVID H. FULLER

(30)

215+00

214+00

PLAN VIEW

SITE # 7

■ F DENOTES FILL IN WETLAND

■ E DENOTES EXCAVATION IN WETLAND

■ * * * * * DENOTES MECHANIZED CLEARING



HORIZONTAL SCALE

NCDOT

DIVISION OF HIGHWAYS

ROBESON COUNTY

PROJECT: 6-469002T (R-513BB)

MAXTON-LUMBERTON

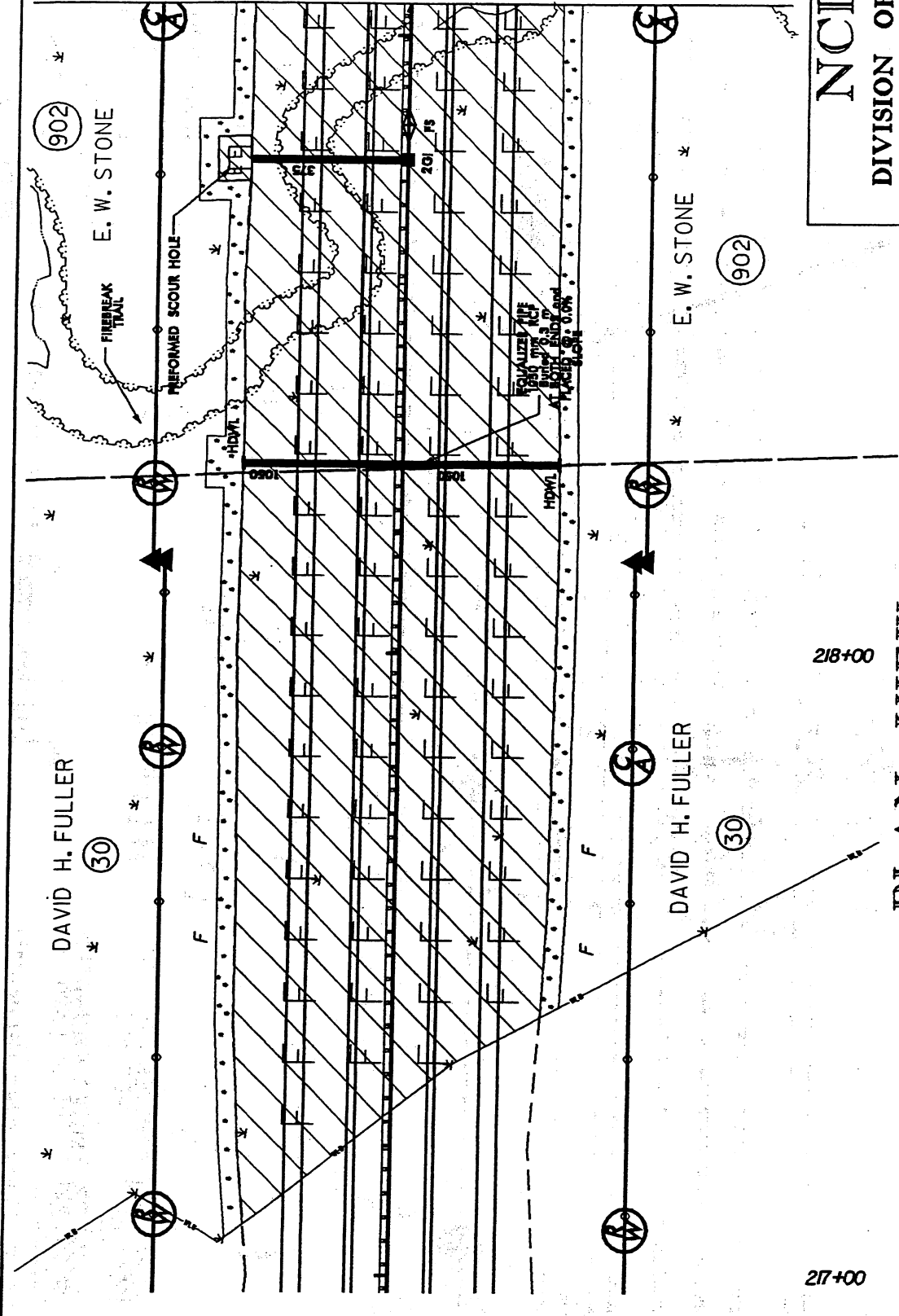
US 74 FROM WEST OF SR 1157

TO WEST OF SR 1164



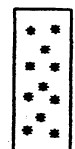
SHEET 11 OF 18 9/18/03

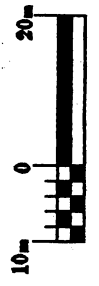
NCDOT
 DIVISION OF HIGHWAYS
 ROBESON COUNTY
 PROJECT: 6-469002T (R-513BB)
 MAXTON-LUMBERTON
 US 74 FROM WEST OF SR 1157
 TO WEST OF SR 1164
 SHEET 12 OF 18 9/18/03

MATCH LINE B - B



**PLAN VIEW
 SITE # 8**

-  DENOTES FILL IN WETLAND
-  DENOTES EXCAVATION IN WETLAND
-  DENOTES MECHANIZED CLEARING



HORIZONTAL SCALE

00+112

MATCH LINE C - C

MATCH LINE B - B

NCDOT

DIVISION OF HIGHWAYS
ROBESON COUNTY
PROJECT: 6.469002T (R-513BB)
MAXTON-LUMBERTON

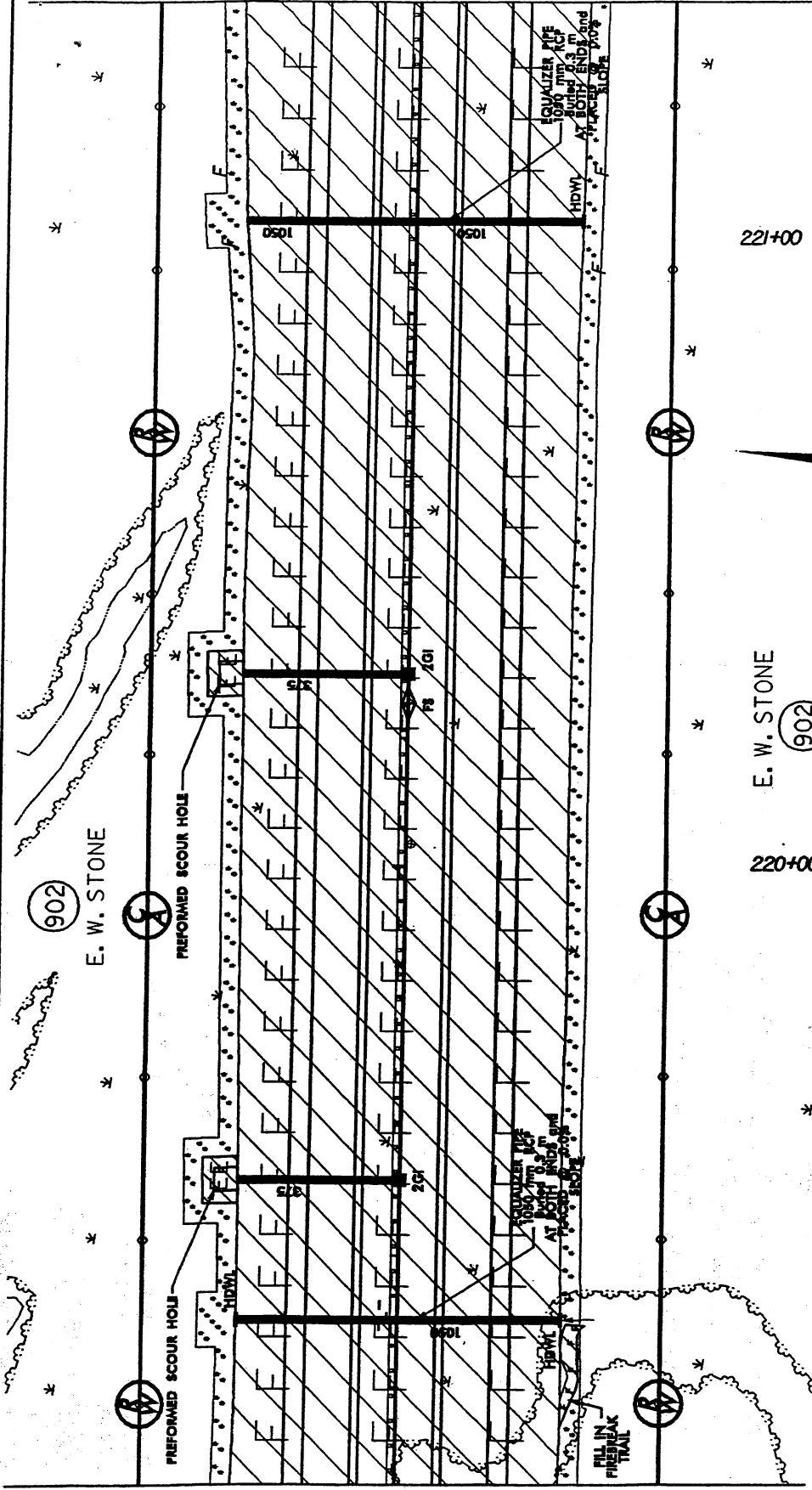
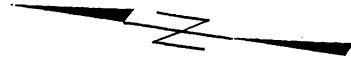
US 74 FROM WEST OF SR 1157
TO WEST OF SR 1164

SHEET 1/3 OF 1/8 9/18/03

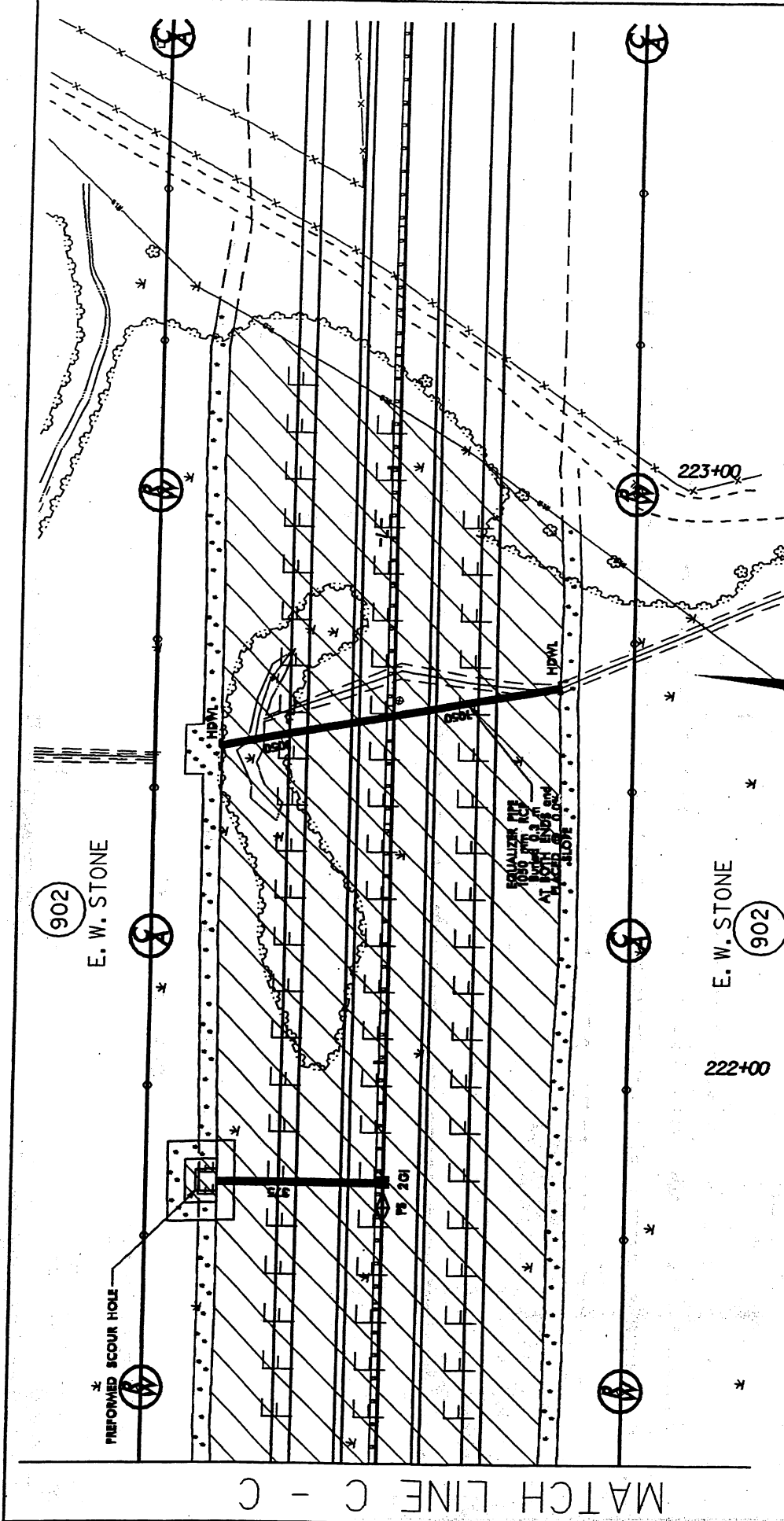
PLAN VIEW

SITE # 8

- DENOTES FILL IN WETLAND
- DENOTES EXCAVATION IN WETLAND
- DENOTES MECHANIZED CLEARING

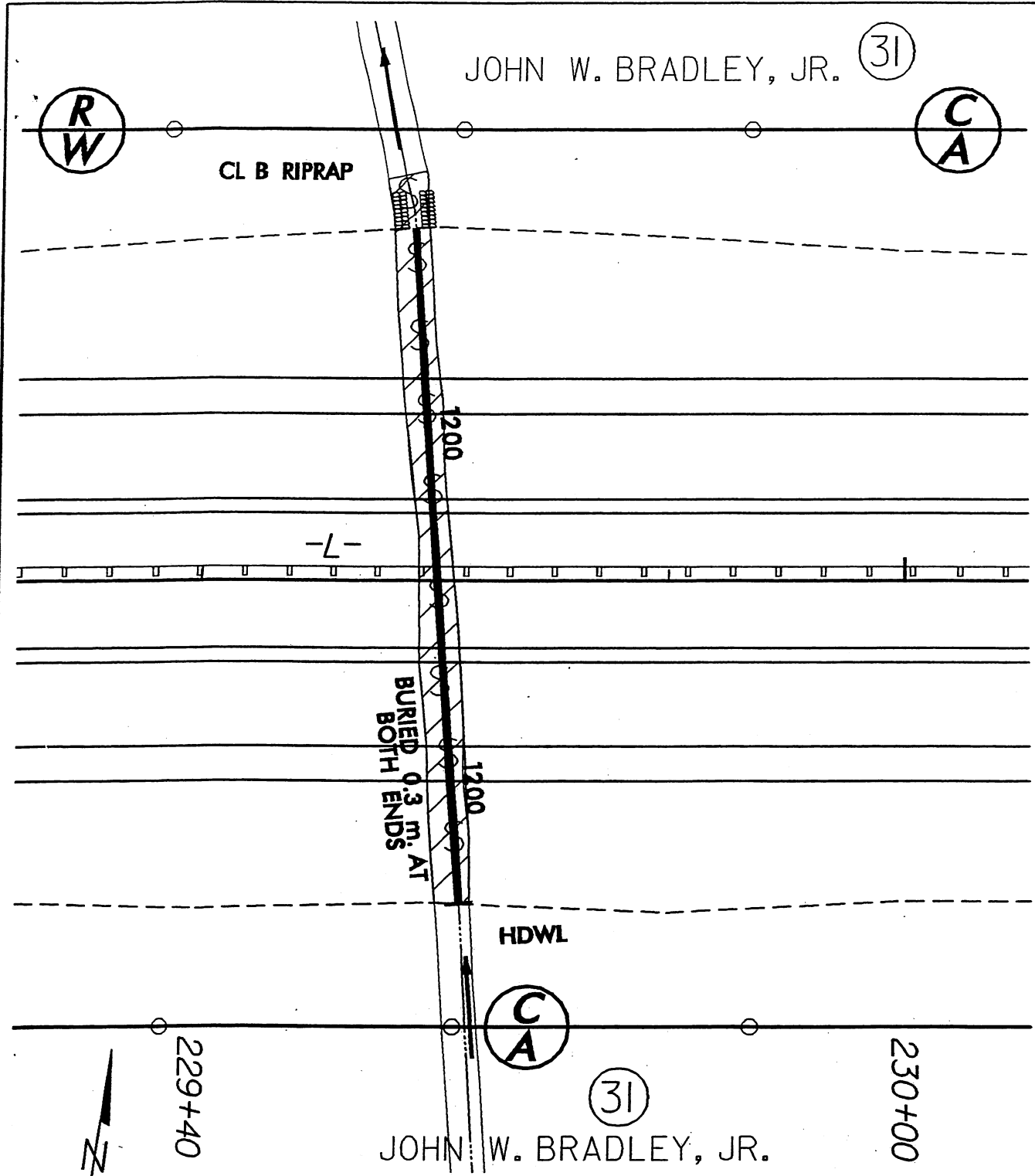


NCDOT
 DIVISION OF HIGHWAYS
 ROBESON COUNTY
 PROJECT: 6.469002T (R-513BB)
 MAXTON-LUMBERTON
 US 74 FROM WEST OF SR 1157
 TO WEST OF SR 1164
 SHEET 14 OF 18 9/18/03



- DENOTES FILL IN WETLAND
- DENOTES EXCAVATION IN WETLAND
- DENOTES MECHANIZED CLEARING

MATCH LINE C - C



**PLAN VIEW
SITE # 9**

 DENOTES FILL IN SURFACE WATER



NCDOT
 DIVISION OF HIGHWAYS
 ROBESON COUNTY
 PROJECT: 6.469002T (R-513BB)
 MAXTON-LUMBERTON
 US 74 FROM WEST OF SR 1157
 TO WEST OF SR 1164
 SHEET 15 OF 18 9/18/03

WETLAND PERMIT IMPACT SUMMARY

Site No.	Station (From/To)	Structure Size / Type	WETLAND IMPACTS				SURFACE WATER IMPACTS							
			Fill In Wetlands (ha)	Temp. Fill In Wetlands (ha)	Excavation In Wetlands (ha)	Mechanized Clearing (Method III) (ha)	Fill In SW (Natural) (ha)	Fill In SW (Pond) (ha)	Temp. Fill In SW (ha)	Existing Channel Impacted (m)	Natural Stream Design (m)			
1	160+92.65 to 161+44.08 -L-	NONE	0.121			0.014								
2	18+99.07 to 19+51.92 -SR5-	NONE	0.088			0.014								
3	170+04.90 to 172+15.80 -L-	1200 mm RCP	1.283		0.001	0.213		0.005						
4	188+99.69 to 191+93.48 -L-	1200 mm & 900 mm RCP	1.079		0.008	0.135								
5	194+51.36 to 195+93.06 -L-	1200 mm RCP	0.564			0.064								
6	200+20.89 -L-	750 mm RCP							0.009			75		
7	214+49.55 to 215+89.33 -L-	1200 mm RCP	0.657		0.004	0.085								
8	217+05.98 to	4 @ 1050 mm RCP	3.067		0.016	0.371								
9	229+60.27 -L-	900 mm RCP							0.019			63		
TOTALS:			6.859	0	0.029	0.896	0.028	0.005	0	138	0			

NCDOT

DIVISION OF HIGHWAYS
 ROBESON COUNTY
 PROJECT 6.469002T (R-513BB)
 MAXTON-LUMBERTON
 US 74 FROM WEST OF SR 1157
 TO WEST OF SR 1164

WETLAND PERMIT IMPACT SUMMARY

Site No.	Station (From/To)	Structure Size / Type	WETLAND IMPACTS			SURFACE WATER IMPACTS				Natural Stream Design (ft)		
			Fill In Wetlands (ac)	Temp. Fill In Wetlands (ac)	Excavation In Wetlands (ac)	Mechanized Clearing (Method III) (ac)	Fill In SW (Natural) (ac)	Fill In SW (Pond) (ac)	Temp. Fill In SW (ac)		Existing Channel Impacted (ft)	
1	160+92.65 to 161+44.08 -L-	NONE	0.299			0.035						
2	18+99.07 to 19+51.92 -SR5-	NONE	0.217			0.035						
3	170+04.90 to 172+15.80 -L-	1200 mm RCP	3.169		0.002	0.526		0.012				
4	188+99.69 to 191+93.48 -L-	1200 mm & 900 mm RCP	2.665		0.02	0.333						
5	194+51.36 to 195+93.06 -L-	1200 mm RCP	1.393			0.158						
6	200+20.89 -L-	750 mm RCP						0.022			246	
7	214+49.55 to 215+89.33 -L-	1200 mm RCP	1.623		0.01	0.21						
8	217+05.98 to	4 @ 1050 mm RCP	7.575		0.04	0.916						
9	229+60.27 -L-	900 mm RCP						0.047			207	
TOTALS:			16.941	0	0.072	2.213	0.069	0.012	0	453	0	

NCDOT

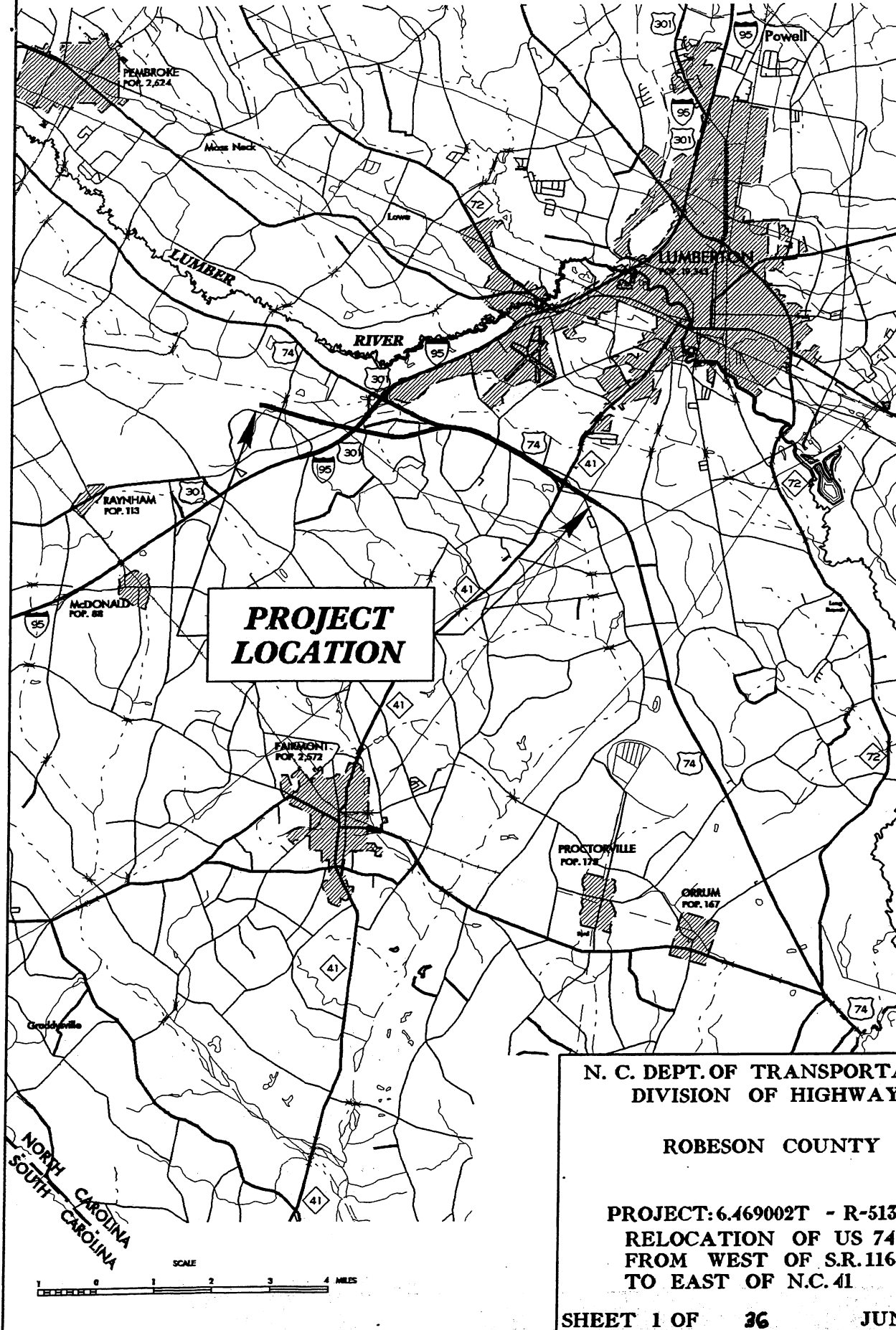
DIVISION OF HIGHWAYS
 ROBESON COUNTY
 PROJECT 6.469002T (R-513BB)
 MAXTON-LUMBERTON
 US 74 FROM WEST OF SR 1157
 TO WEST OF SR 1164

PROPERTY OWNERS
NAMES AND ADDRESSES

PARCEL NO.	NAMES	ADDRESSES
5	ETHEL LOWRY	3030 UNION SCHOOL RD. ROWLAND, N.C. 28383
6	LOIS OXENDINE	153 DIVINE STREET ROWLAND, N.C. 28383
18	JERRY FRANKLIN STONE	RT.1 BOX 221 ROWLAND, N.C. 28383
24	FRANCES WATTS BRITT	422 E. JONES STREET RALEIGH, N.C. 27601
25	WILLIAM DANIEL PATE	307 SERPENTINE DRIVE SOUTHERN PINES, N.C. 28387
28	WILLIAM A. McCORMICK, JR.	P.O. BOX 223 ROWLAND, N.C. 28383
30	DAVID H. FULLER	1705 N. WALNUT STREET LUMBERTON, N.C. 28358
31	JOHN W. BRADLEY, JR.	105 W. 26TH STREET LUMBERTON, N.C. 28358
902	E. W. STONE	3802 US HWY 301 ROWLAND, N.C. 28383

NCDOT
DIVISION OF HIGHWAYS
ROBESON COUNTY
PROJECT: 6.469002T (R-513BB)
MAXTON-LUMBERTON
US 74 FROM WEST OF SR 1157
TO WEST OF SR1164
SHEET 18 OF 18 **9/18/03**

VICINITY MAP



**PROJECT
LOCATION**

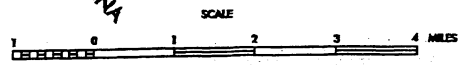
N. C. DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS

ROBESON COUNTY


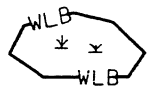
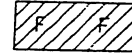




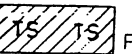
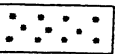
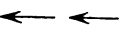
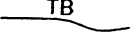
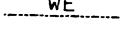
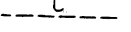
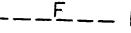


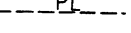
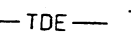
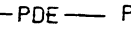
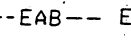
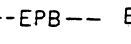
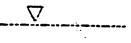
PROJECT: 6.469002T - R-513C
RELOCATION OF US 74
FROM WEST OF S.R. 1164
TO EAST OF N.C. 41

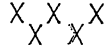



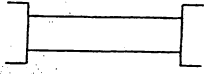
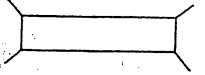
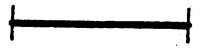



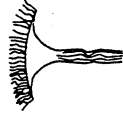


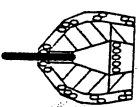
SHEET 1 OF 36 JUNE, 2000

NORTH CAROLINA
SOUTH CAROLINA



LEGEND

-  WLB WETLAND BOUNDARY
-  WETLAND
-  DENOTES FILL IN WETLAND
-  DENOTES FILL IN SURFACE WATER
-  DENOTES FILL IN SURFACE WATER (POND)
-  DENOTES TEMPORARY FILL IN WETLAND
-  DENOTES EXCAVATION IN WETLAND
-  DENOTES TEMPORARY FILL IN SURFACE WATER
-  DENOTES MECHANIZED CLEARING
-  FLOW DIRECTION
-  TB TOP OF BANK
-  WE EDGE OF WATER
-  C PROP. LIMIT OF CUT
-  F PROP. LIMIT OF FILL
-  PROP. RIGHT OF WAY
-  NG NATURAL GROUND
-  PL PROPERTY LINE
-  TDE TEMP. DRAINAGE EASEMENT
-  PDE PERMANENT DRAINAGE EASEMENT
-  EAB EXIST. ENDANGERED ANIMAL BOUNDARY
-  EPB EXIST. ENDANGERED PLANT BOUNDARY
-  WATER SURFACE

-  LIVE STAKES
-  BOULDER
-  COIR FIBER ROLLS
-  5 ADJACENT PROPERTY OWNER OR PARCEL NUMBER
-  PROPOSED BRIDGE
-  PROPOSED BOX CULVERT
-  PROPOSED PIPE CULVERT
- (DASHED LINES DENOTE EXISTING STRUCTURES)
-  SINGLE TREE
-  WOODS LINE
-  DRAINAGE INLET
-  ROOTWAD
-  VANE
-  RIP RAP
-  RIP RAP ENERGY DISSIPATOR BASIN

N. C. DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS

ROBESON COUNTY

PROJECT: 6.469002T - R-513C
RELOCATION OF US 74
FROM WEST OF S.R.1164
TO EAST OF N.C.41

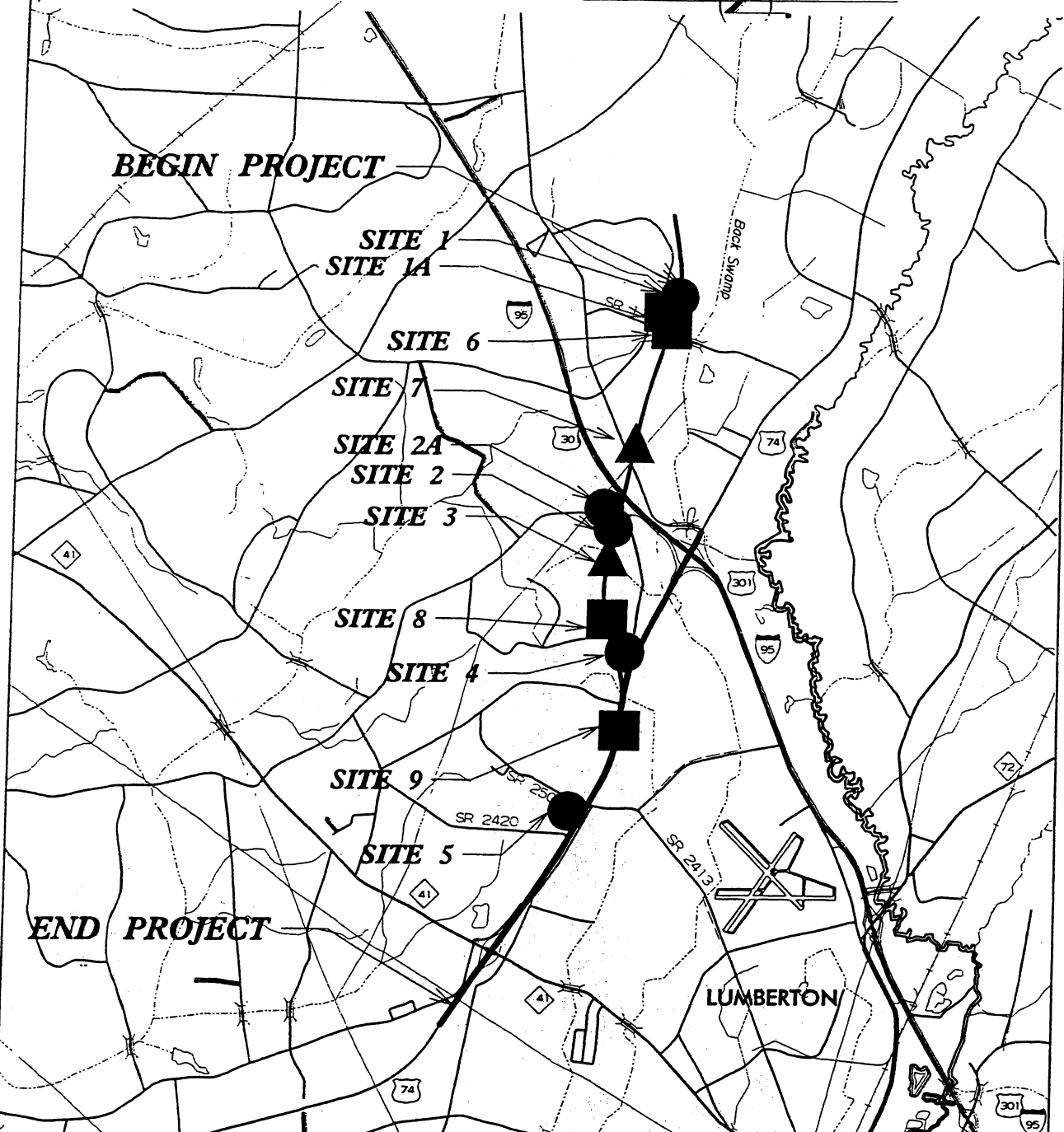
SHEET 2 OF 36 **JUNE 2000**




SITE MAP

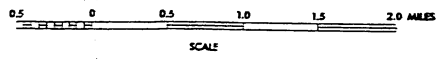


BEGIN PROJECT

END PROJECT



-  **WETLAND SITES**
-  **SURFACE WATER SITES**
-  **COMB. WETLAND AND SURFACE WATER SITES**



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

ROBESON COUNTY

**PROJECT: 6.469200T - R-513C
RELOCATION OF US 74
FROM WEST OF S.R. 1164
TO EAST OF N.C. 41**



MATCH LINE STA. 251+80.00
TO SITE 1 - SHT 2

1

JOHN JACOBS
AND RON JACOBS

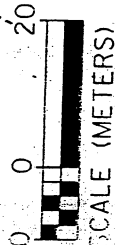
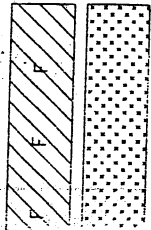
2

DEXTER LOCKLEAR AND WIFE,
DEBORAH ANN LOCKLEAR

PLAN VIEW SITE 1

DENOTES FILL
IN WETLAND

DENOTES
MECHANIZED
CLEARING

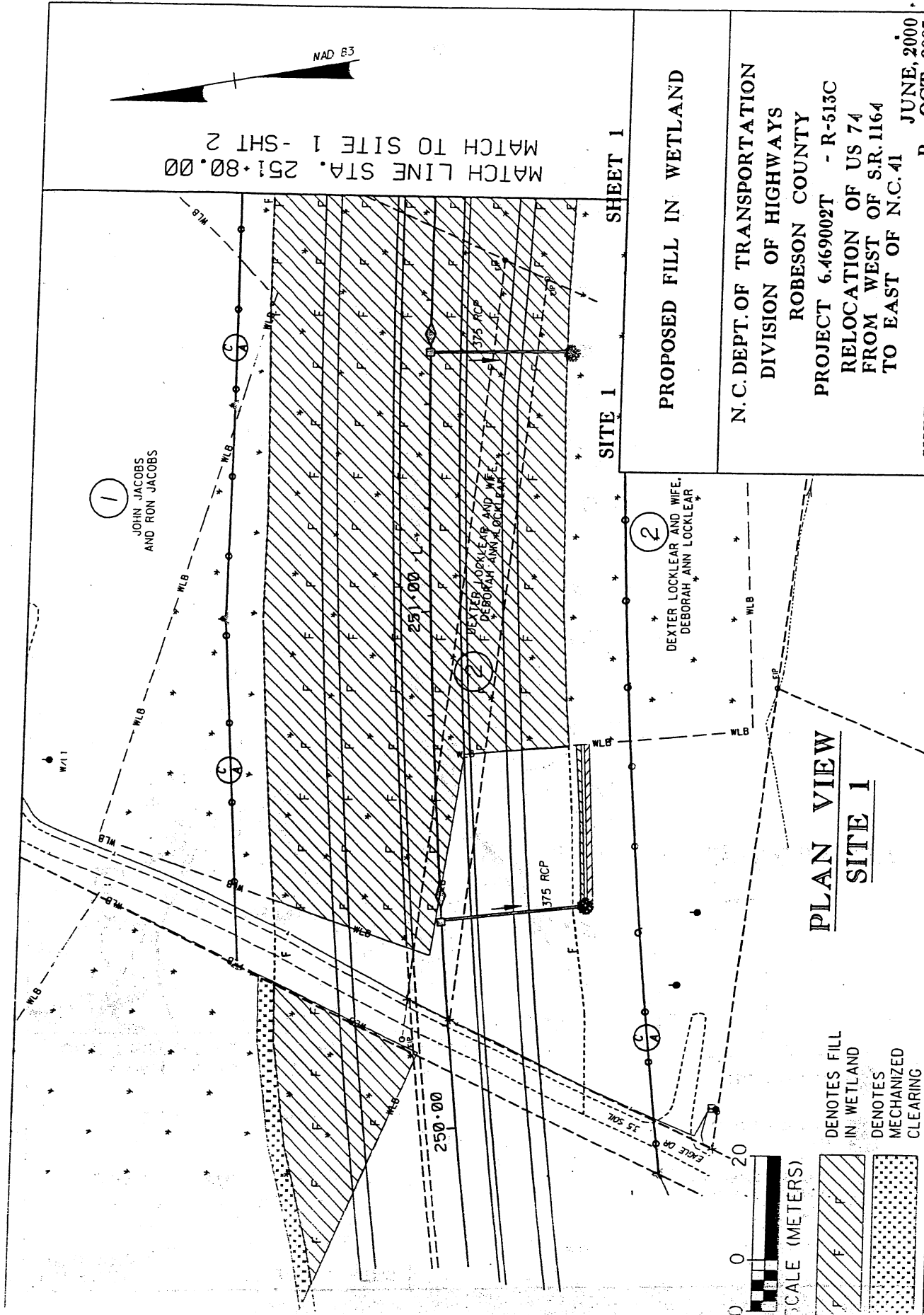


SITE 1 SHEET 1

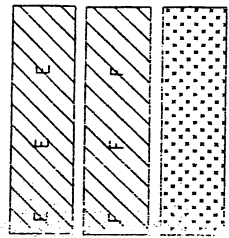
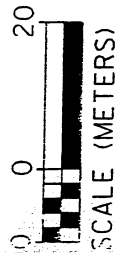
PROPOSED FILL IN WETLAND

N.C. DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS
ROBESON COUNTY
PROJECT 6.469002T - R-513C
RELOCATION OF US 74
FROM WEST OF S.R. 1164
TO EAST OF N.C. 41

SHEET 4 OF 36
JUNE, 2000
Rev. OCT., 2003
Rev. APRIL, 2004



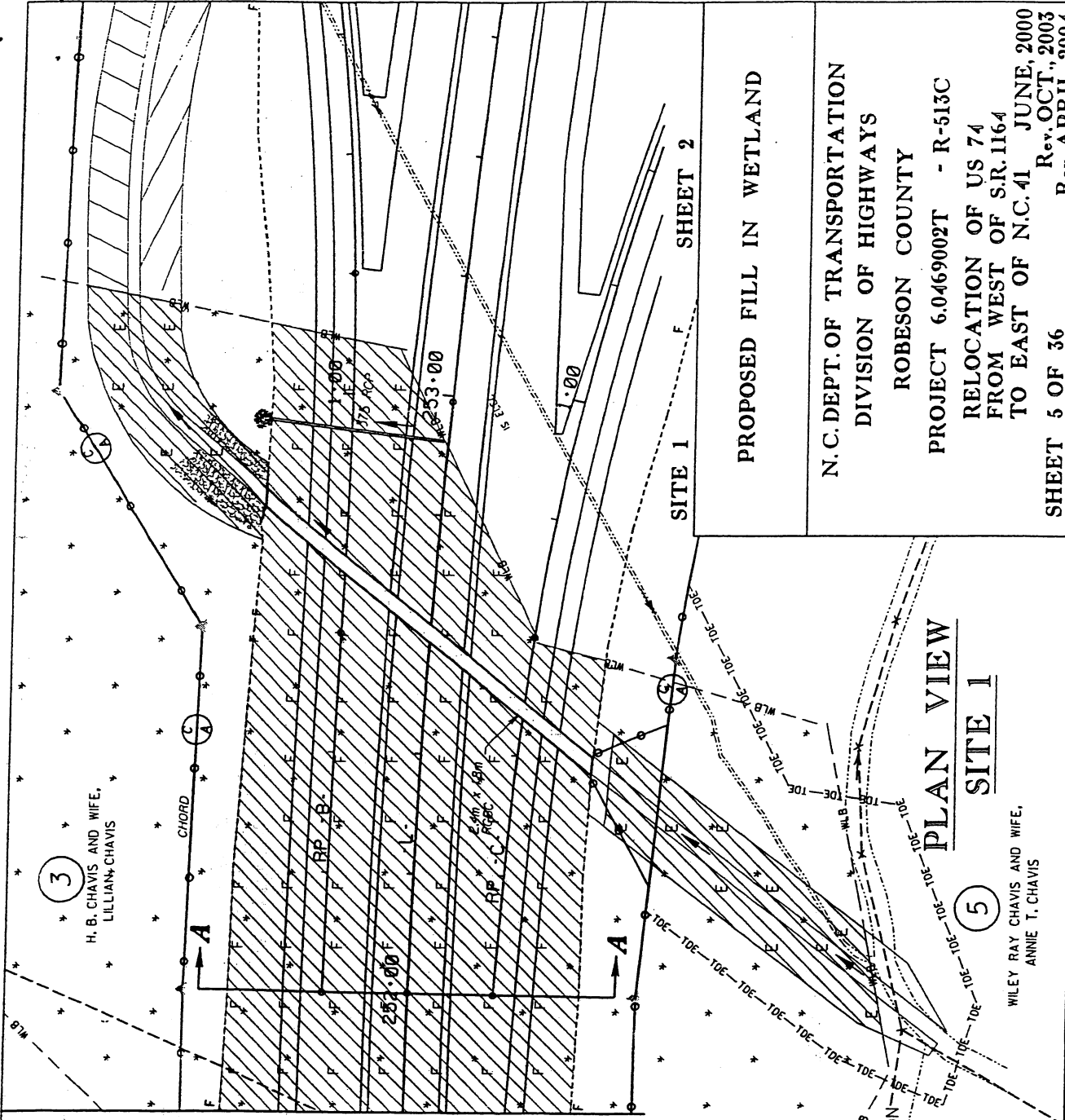
MATCH LINE STA. 251+80.00
MATCH TO SITE 1 - SHT 1



DENOTES EXCAVATION
IN WETLAND

DENOTES FILL
IN WETLAND

DENOTES
MECHANIZED
CLEARING



SITE 1 F SHEET 2

PROPOSED FILL IN WETLAND

N.C. DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS
ROBESON COUNTY

PROJECT 6.0469002T - R-513C

RELOCATION OF US 74
FROM WEST OF S.R. 1164
TO EAST OF N.C. 41

JUNE, 2000
Rev. OCT., 2003
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SHEET 5 OF 36

PLAN VIEW

SITE 1

WILEY RAY CHAVIS AND WIFE,
ANNIE T. CHAVIS

3

H. B. CHAVIS AND WIFE,
LILLIAN CHAVIS

5

STA 250+36.000 -L-
BEGIN GR. EL. = 44.92

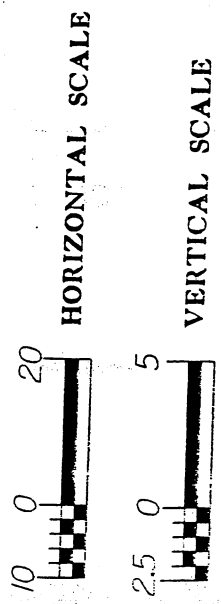
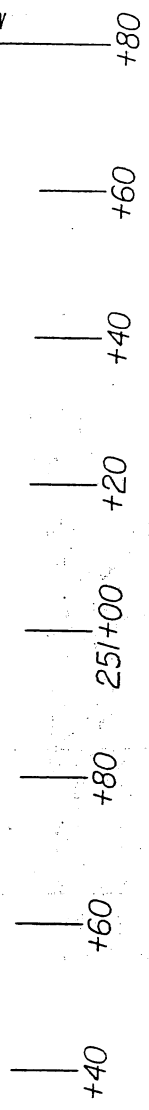
PROP. GRADE LINE

(-1.0.3000%)

GROUND LINE

WETLANDS

MATCH TO SITE 1-SHT 4



PROFILE VIEW SITE 1

50
46
42
38

SITE 1 SHEET 3

PROPOSED FILL IN WETLAND

N.C. DEPT. OF TRANSPORTATION
 DIVISION OF HIGHWAYS
 ROBESON COUNTY
 PROJECT 6.469200T - R-513C
 RELOCATION OF U.S. 74
 FROM WEST OF S.R. 1164 TO
 EAST OF N.C. 41

SHEET 6 OF 36

JUNE, 2000

50

46

42

38

MATCH TO SITE 1-SHT 3

50

46

42

38

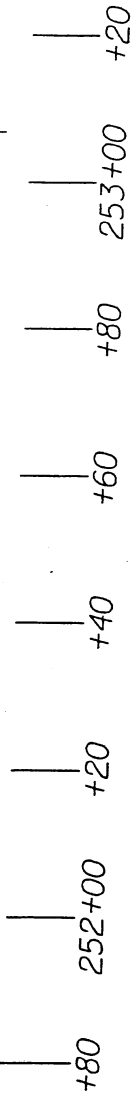
PROP. GRADE LINE

(-)0.3000%

GROUND LINE

WETLANDS

2.4m x 10m nccc



PROFILE VIEW

SITE 1



HORIZONTAL SCALE



VERTICAL SCALE

SITE 1

SHEET 4

PROPOSED FILL IN WETLAND

N.C. DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS

ROBESON COUNTY

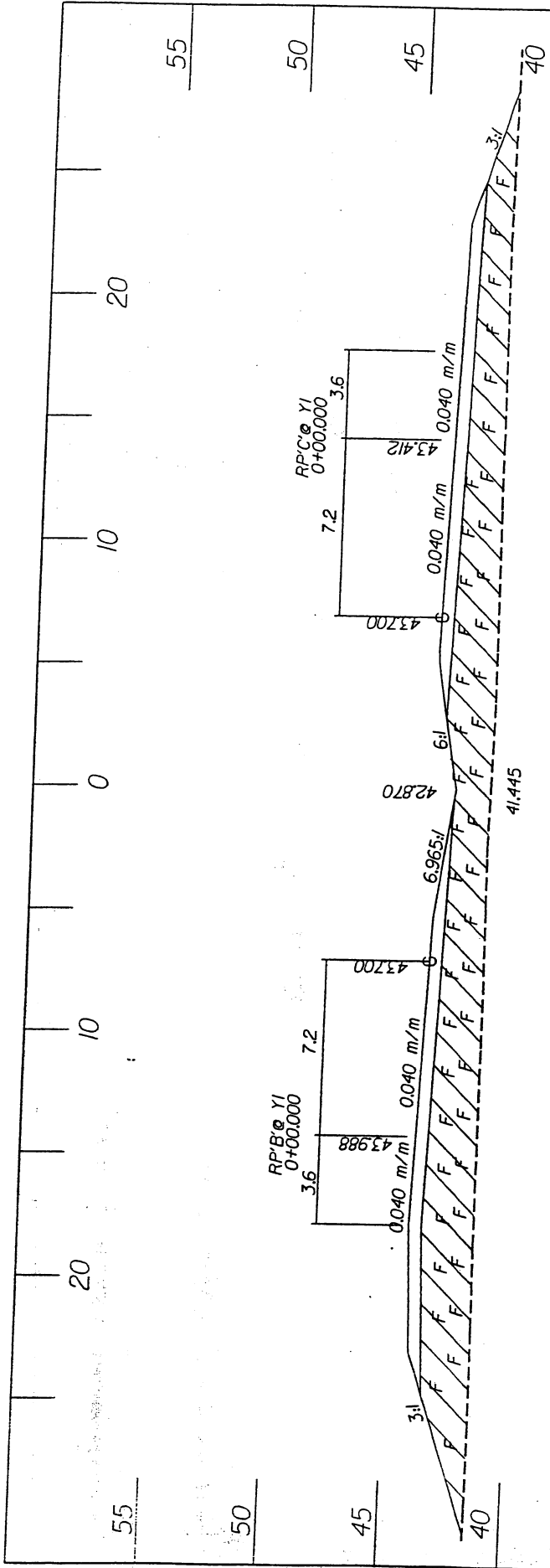
PROJECT 6.469200T - R-513C

RELOCATION OF U.S. 74

FROM WEST OF S.R. 1164 TO
EAST OF N.C. 41

SHEET 7 OF 36

JUNE, 2000



SITE 1 SHEET 5

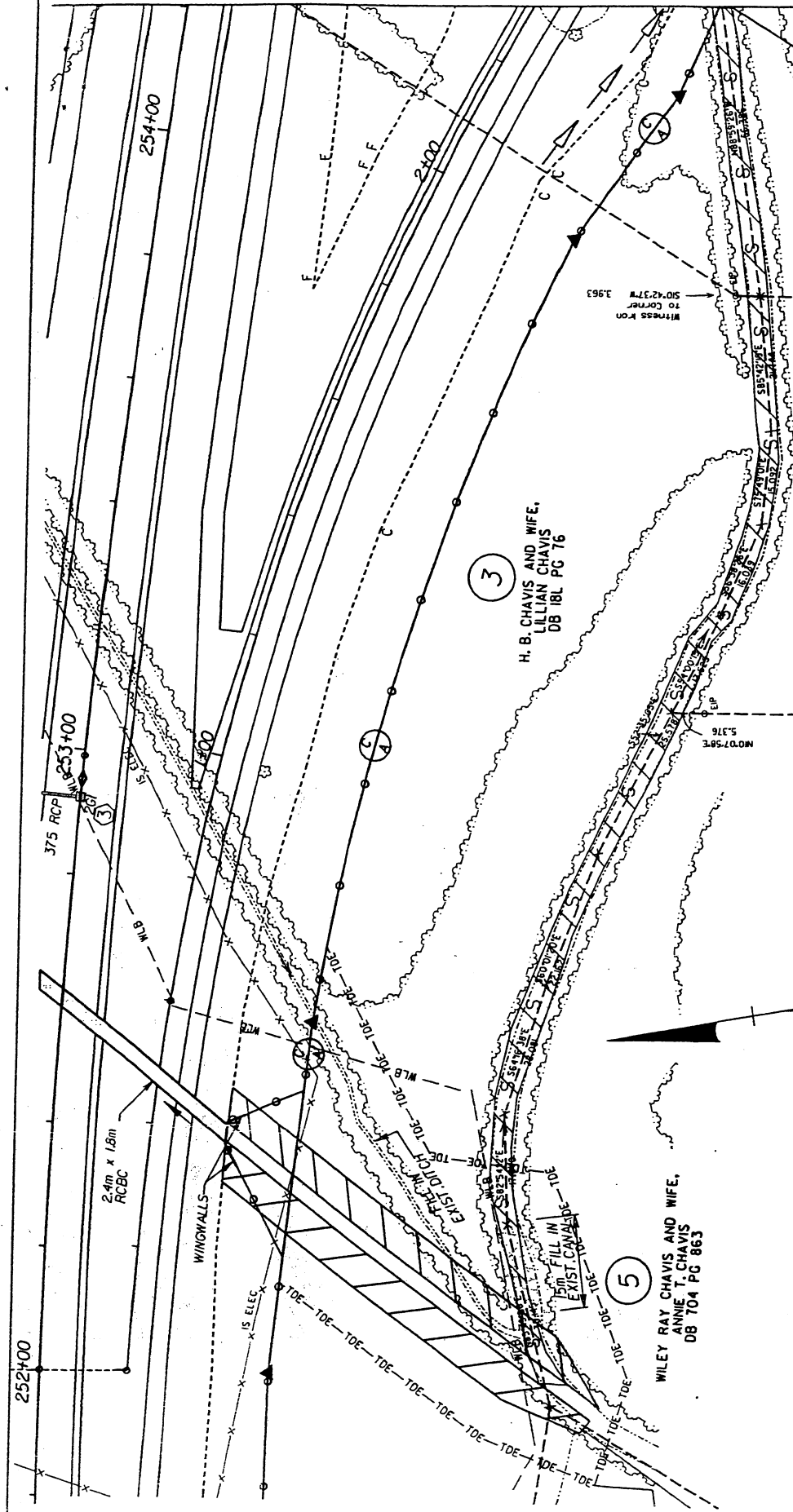
PROPOSED FILL IN WETLAND

CROSS-SECTION
SITE 1



N.C. DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS
ROBESON COUNTY
PROJECT 6.469002T - R-513C
RELOCATION OF U.S.74
FROM WEST OF S.R.1164 TO
EAST OF N.C.41

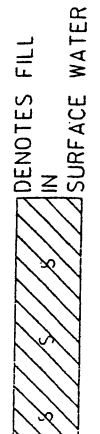
SHEET 8 OF 36
JUNE, 2000
Rev. APRIL, 2004



3
H. B. CHAVIS AND WIFE,
LILLIAN CHAVIS
DB 181 PG 76

5
WILEY RAY CHAVIS AND WIFE,
ANNIE T. CHAVIS
DB 704 PG 863

PLAN VIEW SITE 1A



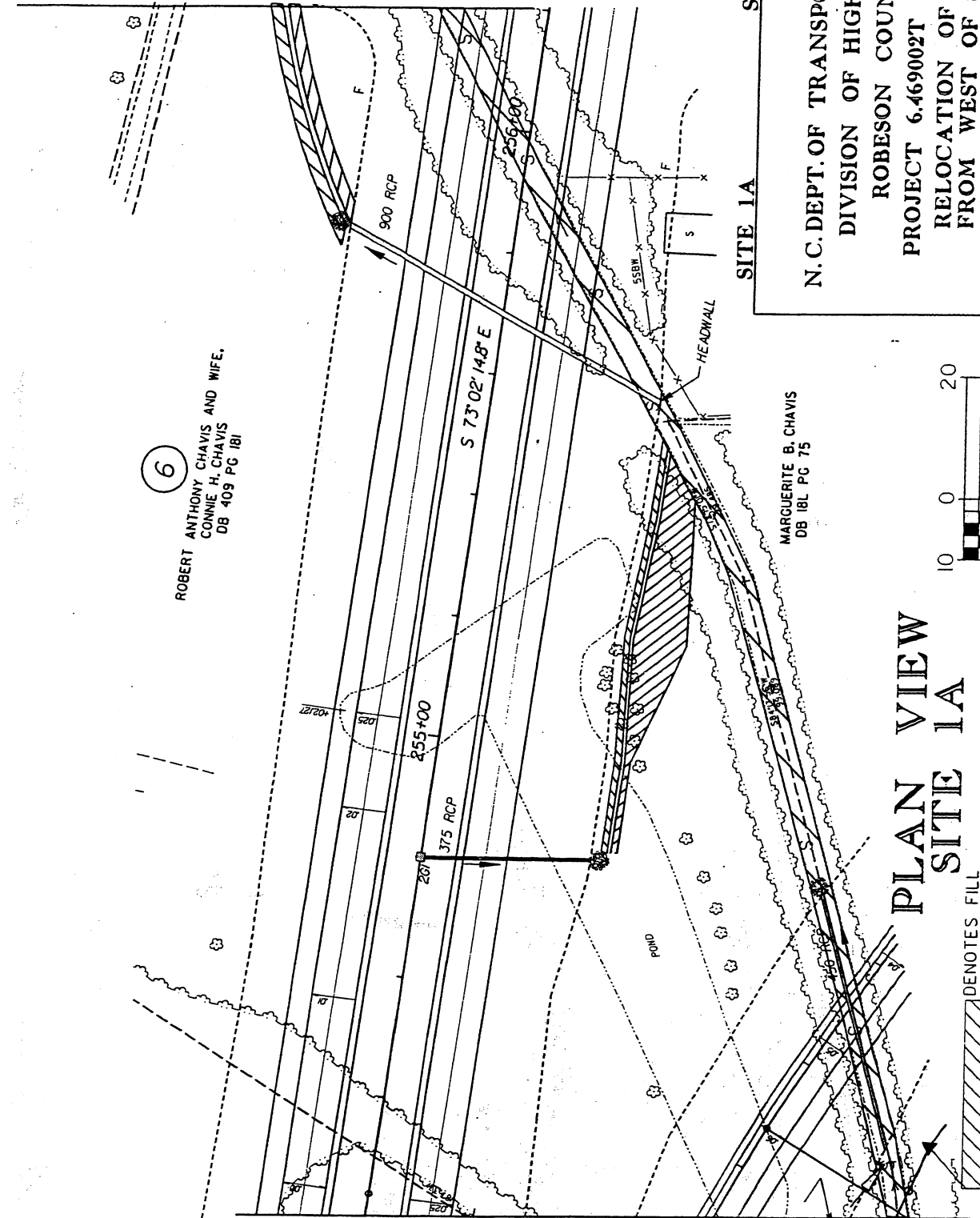
PROPOSED FILL IN WETLAND
N.C. DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS
ROBESON COUNTY
PROJECT 6.469002T - R-513C
RELOCATION OF US 74
FROM WEST OF S.R. 1164
TO EAST OF N.C. 41
REV. OCT., 2003
JUNE, 2000



MATCH SITE 1A SHEET 3

6
ROBERT ANTHONY CHAVIS AND WIFE,
CONNIE H. CHAVIS
DB 409 PG 181

MATCH SITE 1A SHEET 1



SHEET 2

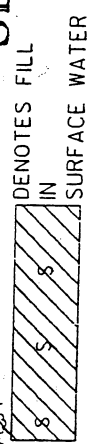
SITE 1A

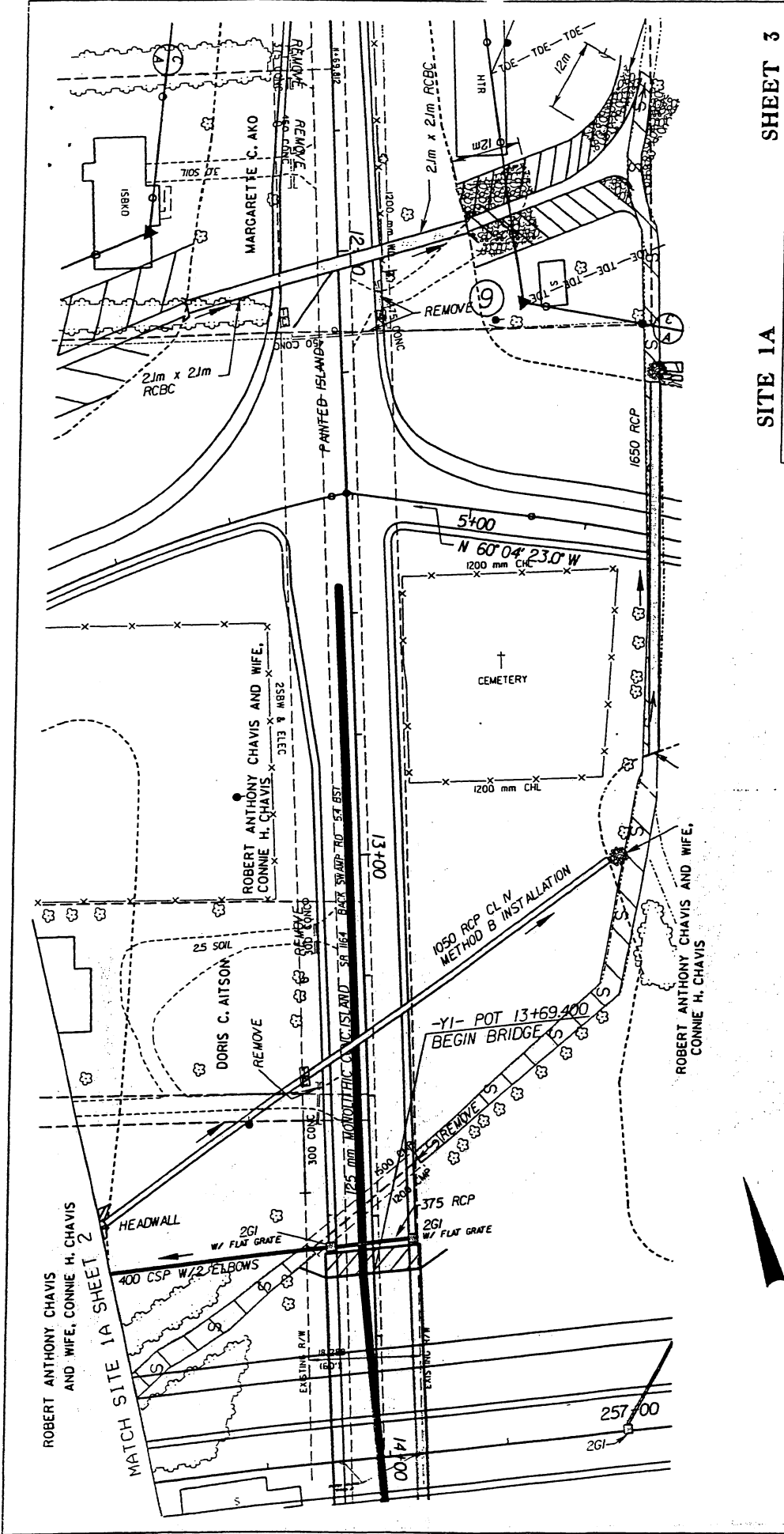
N.C. DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS
ROBESON COUNTY
PROJECT 6.469002T - R-513C
RELOCATION OF US 74
FROM WEST OF S.R. 1164
TO EAST OF N.C. 41
REV. OCT., 21ST
JUNE, 20TH

SHEET 10 OF 36

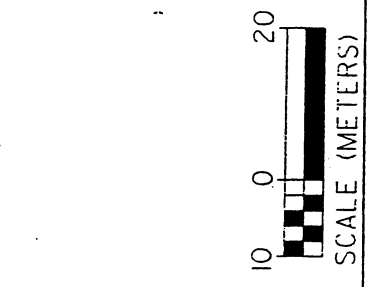
MARGUERITE B. CHAVIS
DB 181 PG 75

PLAN VIEW SITE 1A





SITE 1A **SHEET 3**
N.C. DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS
ROBESON COUNTY
PROJECT 6.469002T - R-513C
RELOCATION OF US 74
FROM WEST OF S.R. 1164
TO EAST OF N.C. 41

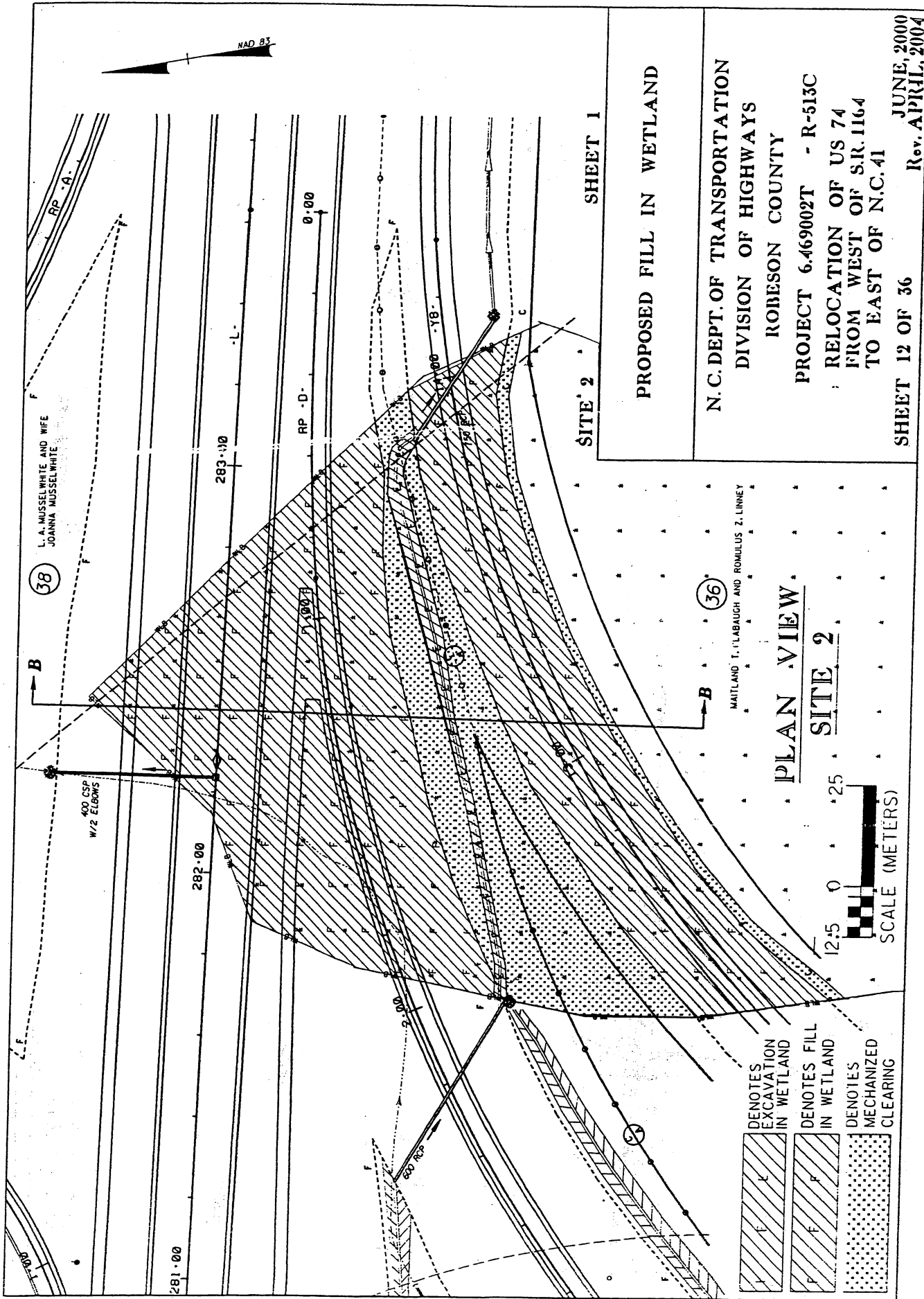


PLAN VIEW
SITE 1A

DENOTES FILL
 IN
 SURFACE WATER

REV. OCT., 2003
 JUNE, 2000

SHEET 11 OF 36



PROPOSED FILL IN WETLAND

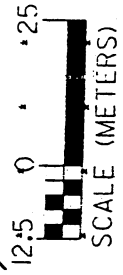
N. C. DEPT. OF TRANSPORTATION
 DIVISION OF HIGHWAYS
 ROBESON COUNTY
 PROJECT 6.469002T - R-513C
 RELOCATION OF US 74
 FROM WEST OF S.R. 1164
 TO EAST OF N.C. 41

SHEET 12 OF 36
 JUNE, 2000
 Rev. APRIL, 2004

DENOTES EXCAVATION IN WETLAND
 DENOTES FILL IN WETLAND
 DENOTES MECHANIZED CLEARING

PLAN VIEW

SITE 2



SHEET 1

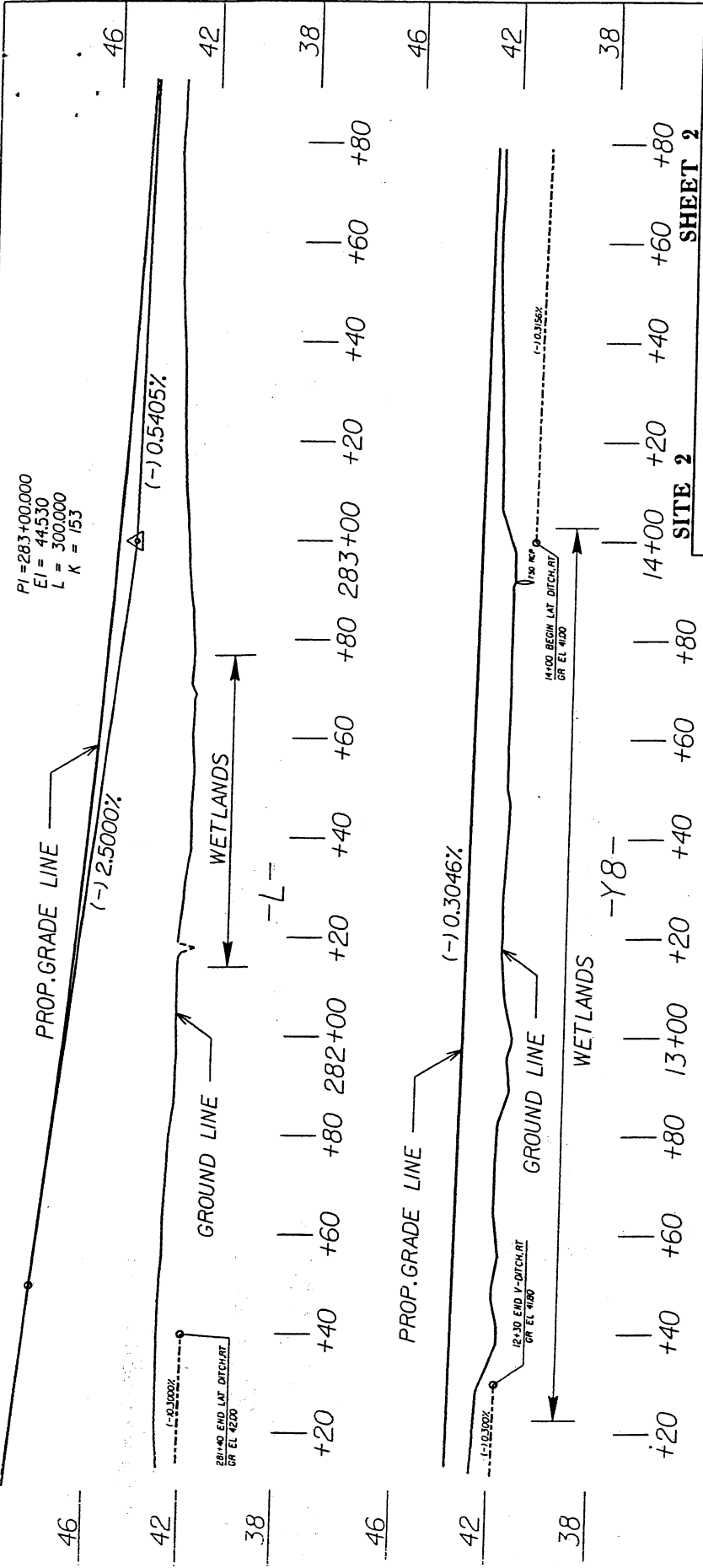
L. A. MUSSELWHITE AND WIFE
 JOANNA MUSSELWHITE

MAYLAND T. LABAUGH AND ROMULUS Z. LINNEY

38

36

NAD 83



PROPOSED FILL IN WETLAND

N.C. DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS

ROBESON COUNTY

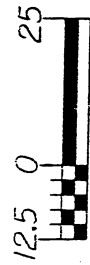
PROJECT 6.469200T - R-513C

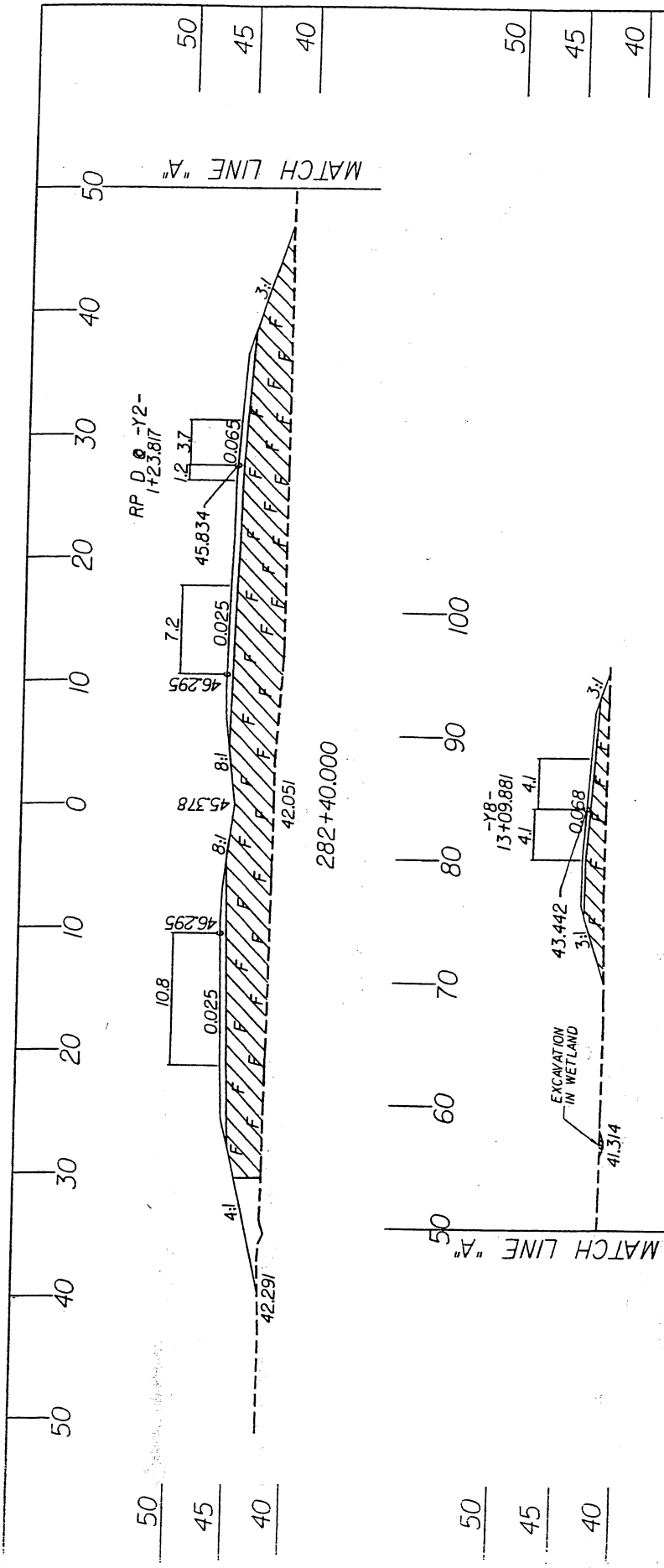
RELOCATION OF U.S. 74
FROM WEST OF S.R. 1164 TO
EAST OF N.C. 41

SHEET 13 OF 36

JUNE, 2000

PROFILE VIEW
SITE 2





SITE 2 **SHEET 3**

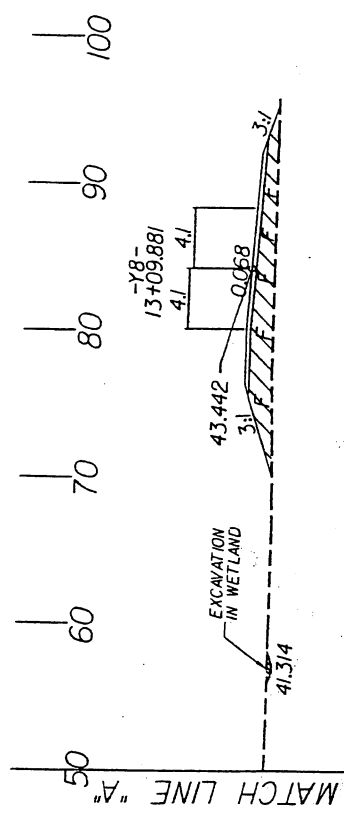
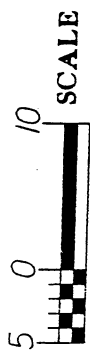
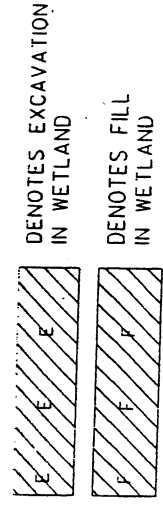
PROPOSED FILL IN WETLAND

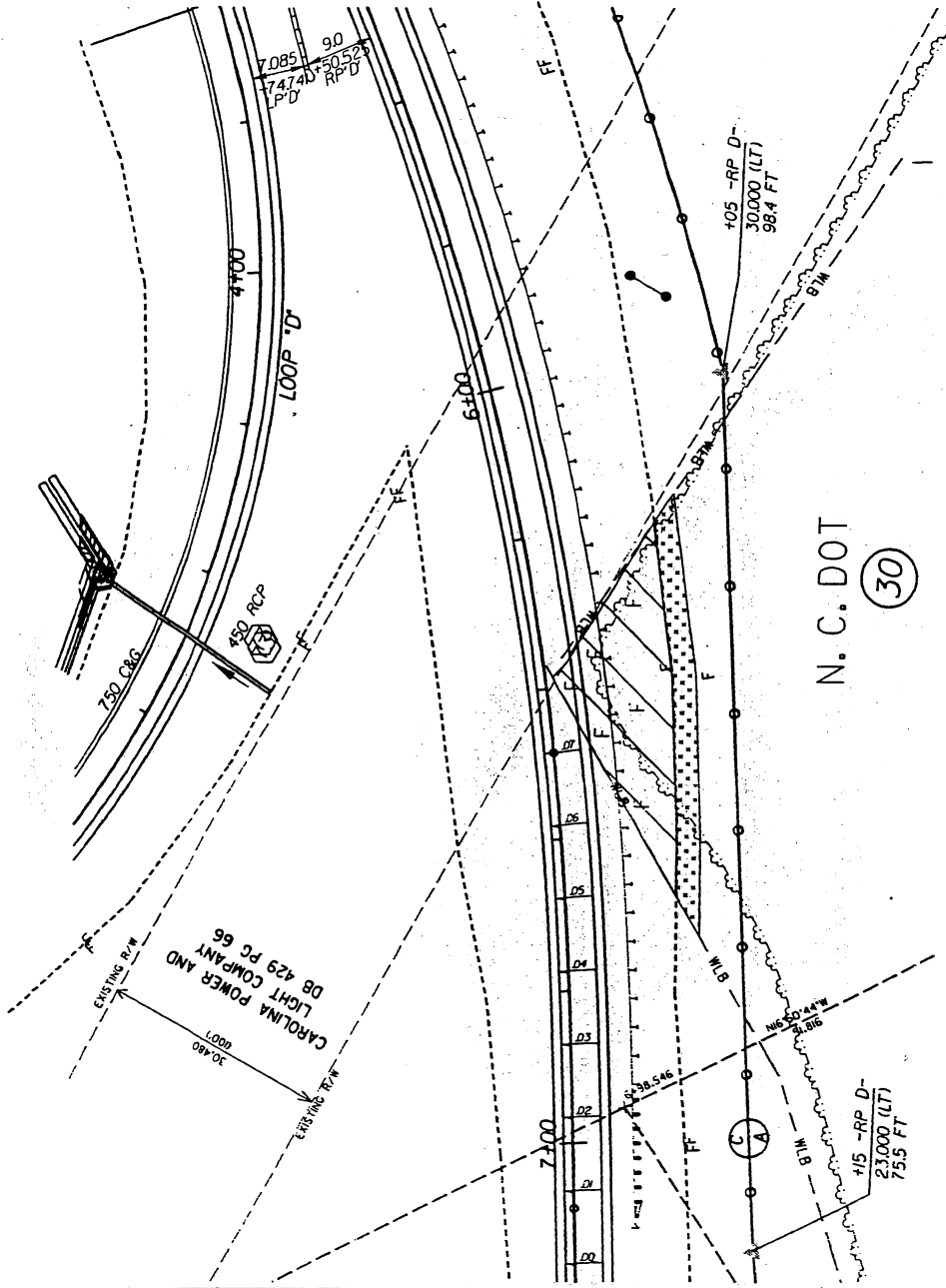
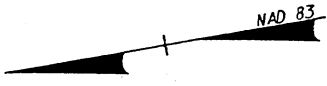
N.C. DEPT. OF TRANSPORTATION
 DIVISION OF HIGHWAYS
 ROBESON COUNTY
 PROJECT 6.462002T - R-513C
 RELOCATION OF U.S.74
 FROM WEST OF S.R.1164 TO
 EAST OF N.C.41

SHEET 14 OF 36 **JUNE, 2000**
 Rev. APRIL, 2004

SECTION B-B

CROSS-SECTION
SITE 2





SITE 2A / SHEET 1

PROPOSED FILL IN WETLAND

N.C. DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS

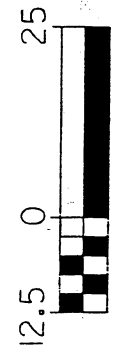
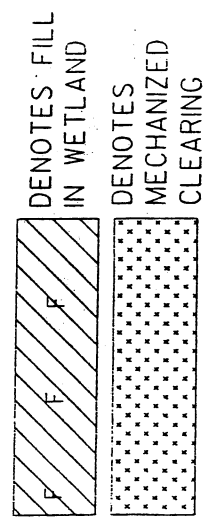
ROBESON COUNTY

PROJECT 6.469002T - R-513C
RELOCATION OF US 74
FROM WEST OF SR. 1164
TO EAST OF N.C. 41

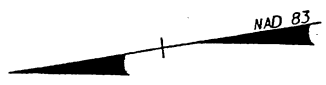
SHEET 15 OF 36

OCTOBER, 2003
Rev. APRIL, 2004

PLAN VIEW
SITE 2A



SCALE (METERS)



MATCH LINE STA. 286+60.00
MATCH TO SITE 3 - SHT 2

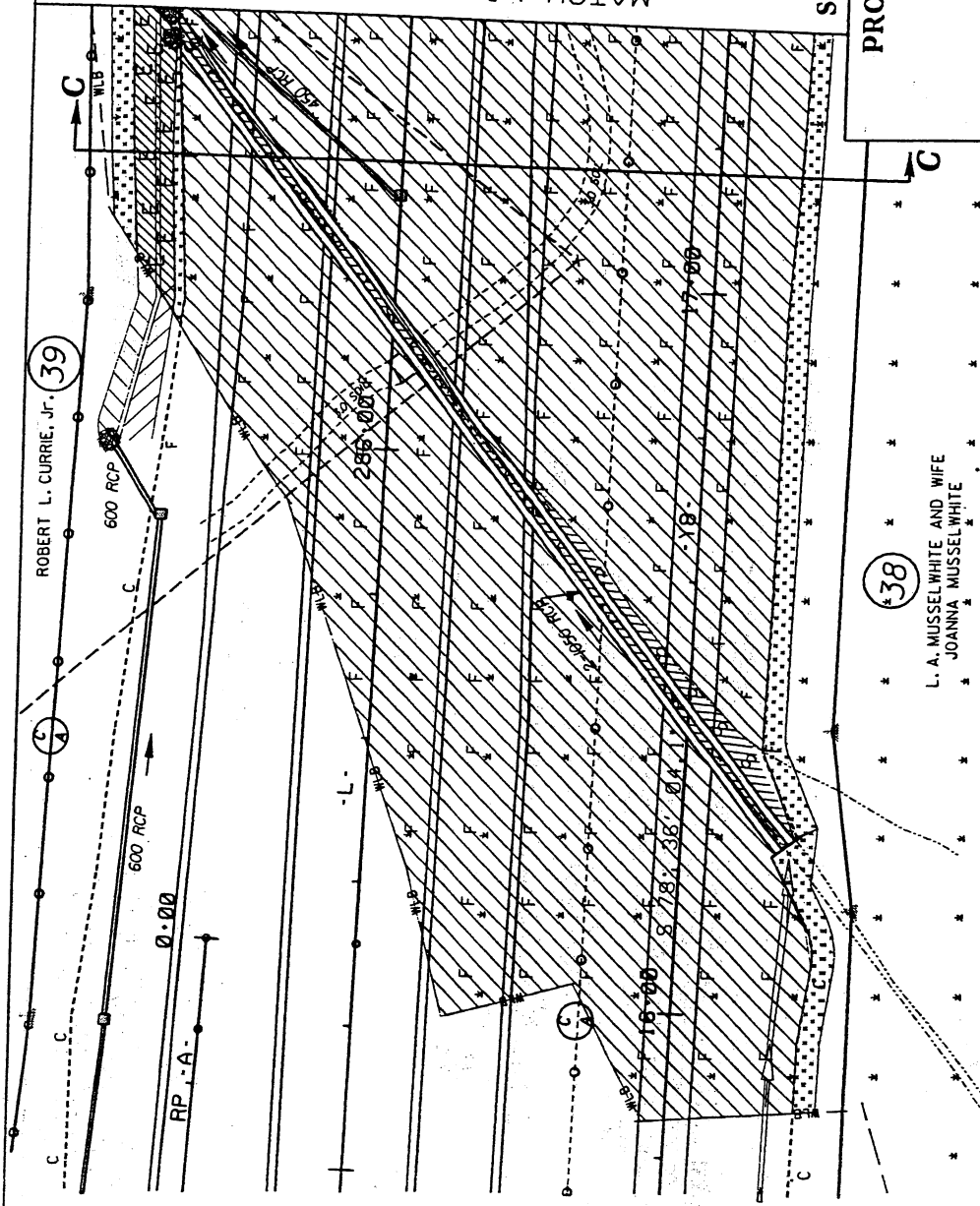
SITE 3 SHEET 1

PROPOSED FILL IN WETLAND
AND
PROPOSED FILL IN
SURFACE WATER

N.C. DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS
ROBESON COUNTY.

PROJECT 6.469002T - R-513C
RELOCATION OF U.S. 74 FROM
WEST OF S.R. 1164 TO EAST OF N.C. 41

SHEET 16 OF 36
JUNE, 2000
Rev. APRIL, 2004

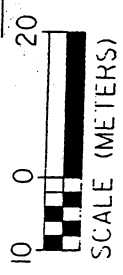


ROBERT L. CURRIE, JR. (39)

(38)

L. A. MUSSELWHITE AND WIFE
JOANNA MUSSELWHITE

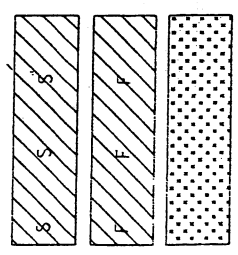
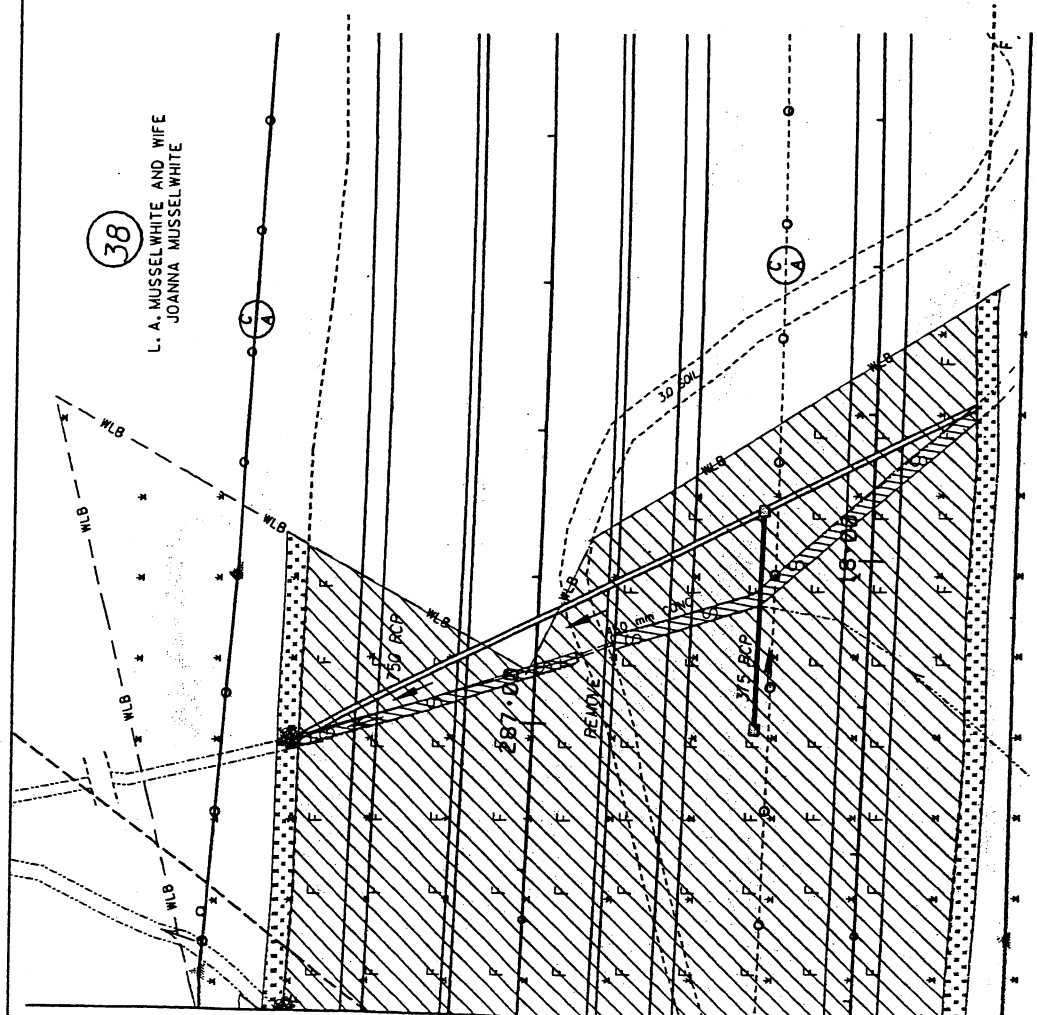
PLAN VIEW
SITE 3



38

L. A. MUSSELWHITE AND WIFE
JOANNA MUSSELWHITE

MATCH LINE STA. 286+60.00
TO SITE 3 - SHT 1



DENOTES FILL IN SURFACE WATER

DENOTES FILL IN WETLAND

DENOTES MECHANIZED CLEARING



PLAN VIEW
SITE 3

SITE 3 SHEET 2

PROPOSED FILL IN WETLAND
AND
PROPOSED FILL IN
SURFACE WATER

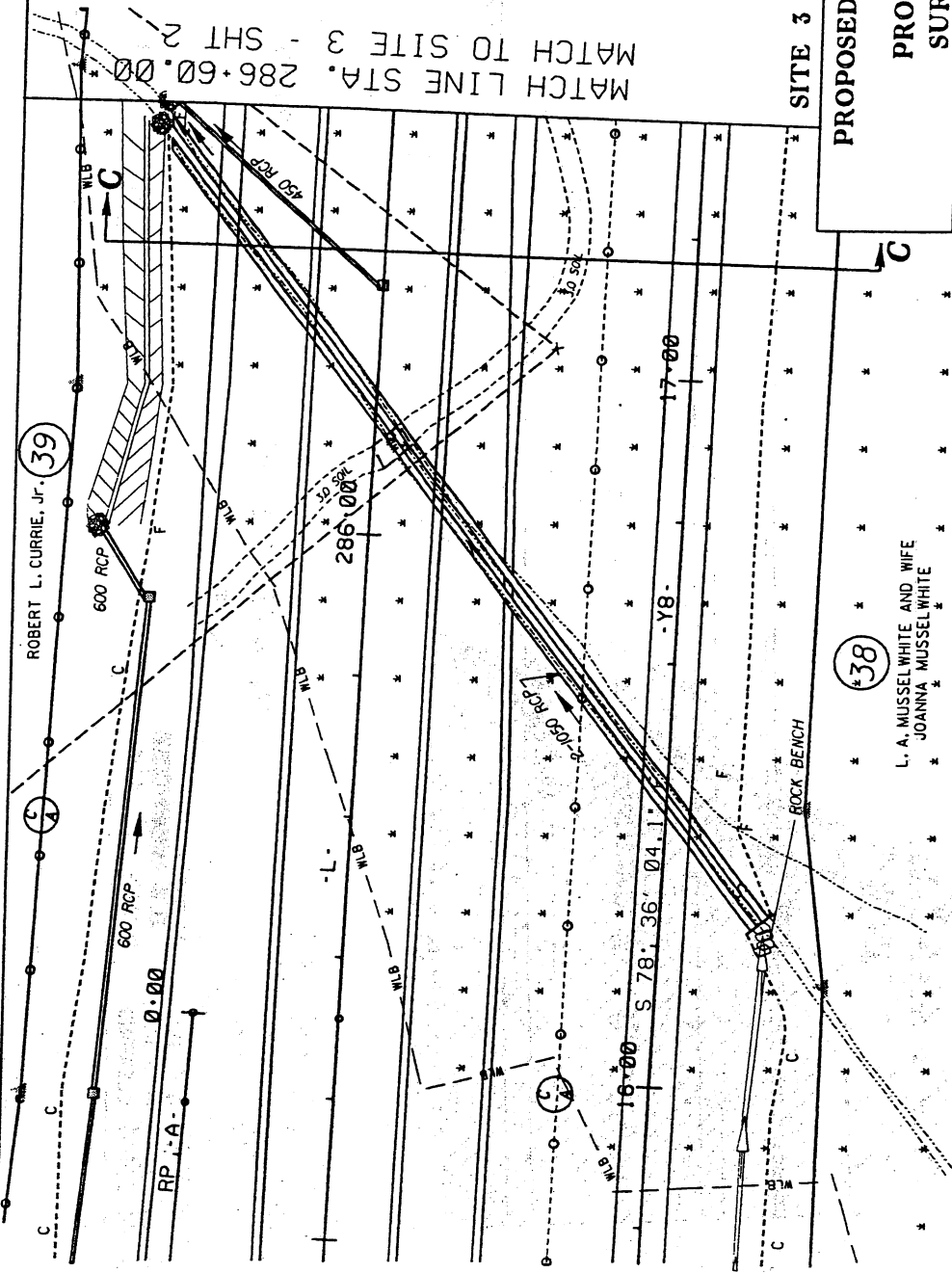
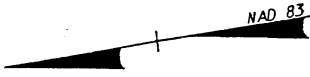
N.C. DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS

ROBESON COUNTY

PROJECT 6.469002T - R-515C

RELOCATION OF U.S. 74 FROM
WEST OF S.R. 1164 TO EAST OF N.C. 41

SHEET 17 OF 36
JUNE, 2000
Rev. OCT, 2003
Rev. APRIL, 2004

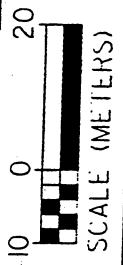


N.C. DEPT. OF TRANSPORTATION
 DIVISION OF HIGHWAYS
 ROBESON COUNTY
 PROJECT 6.469002T - R-513C
 RELOCATION OF U.S. 74 FROM
 WEST OF S.R. 1164 TO EAST OF N.C. 41

SHEET 18 OF 36
 JUNE 2000
 REV 3/2004
 Rev. APRIL, 2004

SHEET 1a
 PROPOSED FILL IN WETLAND
 AND
 PROPOSED FILL IN
 SURFACE WATER

BOUSSINESQ EQUATION
 DITCH IMPACTS



ROBERT L. CURRIE, JR. (39)

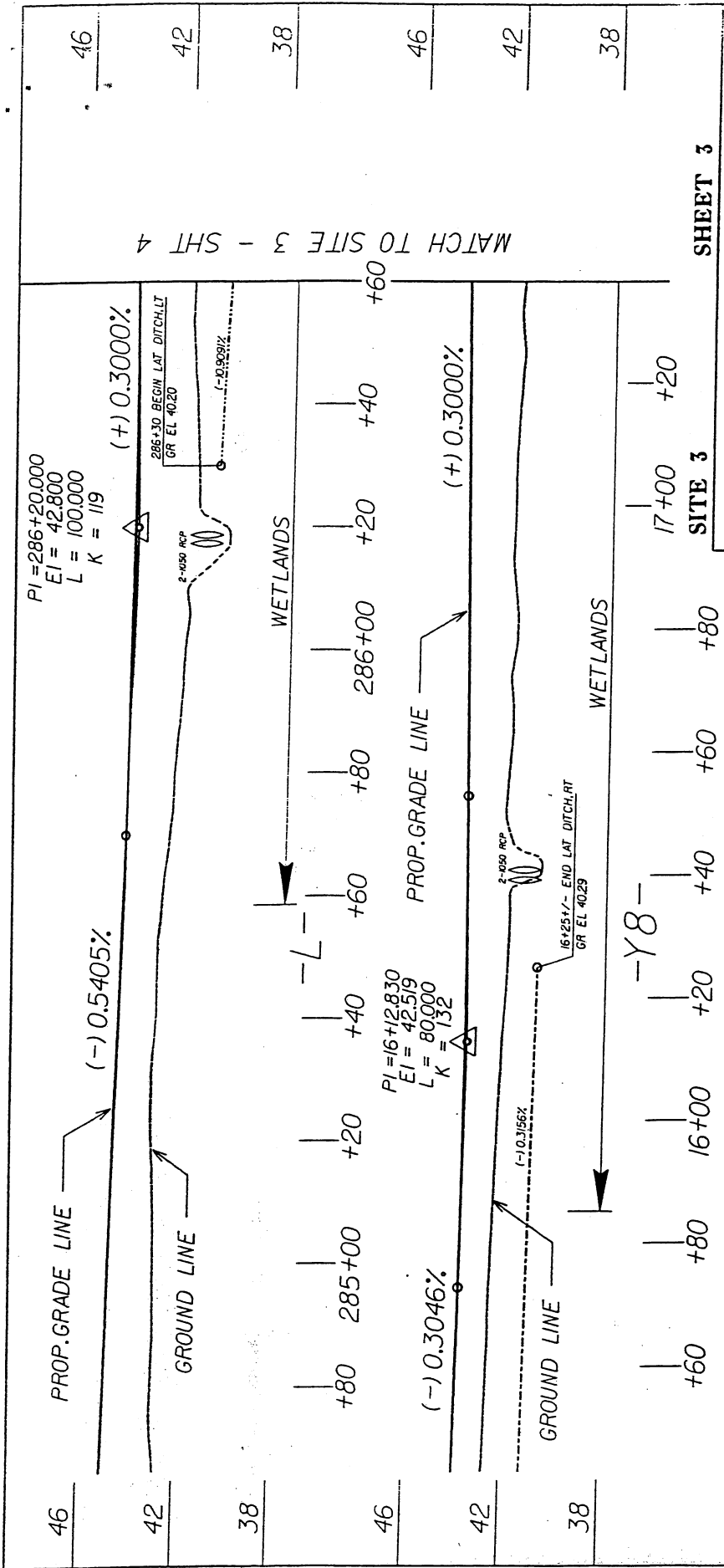
(38)

L. A. MUSSEL WHITE AND WIFE
JOANNA MUSSELWHITE

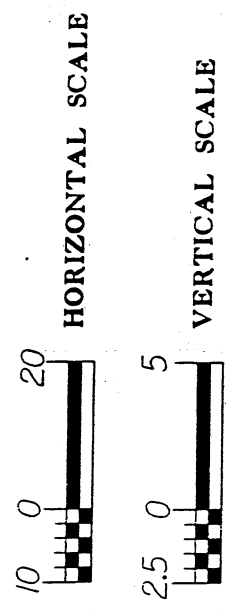
PLAN VIEW
 SITE 3

MATCH LINE STA. 286+60.00
 MATCH TO SITE 3 - SHT 2

SITE 3



PROFILE VIEW
SITE 3



PROPOSED FILL IN WETLAND

N.C. DEPT. OF TRANSPORTATION
 DIVISION OF HIGHWAYS
 ROBESON COUNTY
 PROJECT 6469002T - R-513C
 RELOCATION OF U.S. 74
 FROM WEST OF S.R. 1164 TO
 EAST OF N.C. 41

46

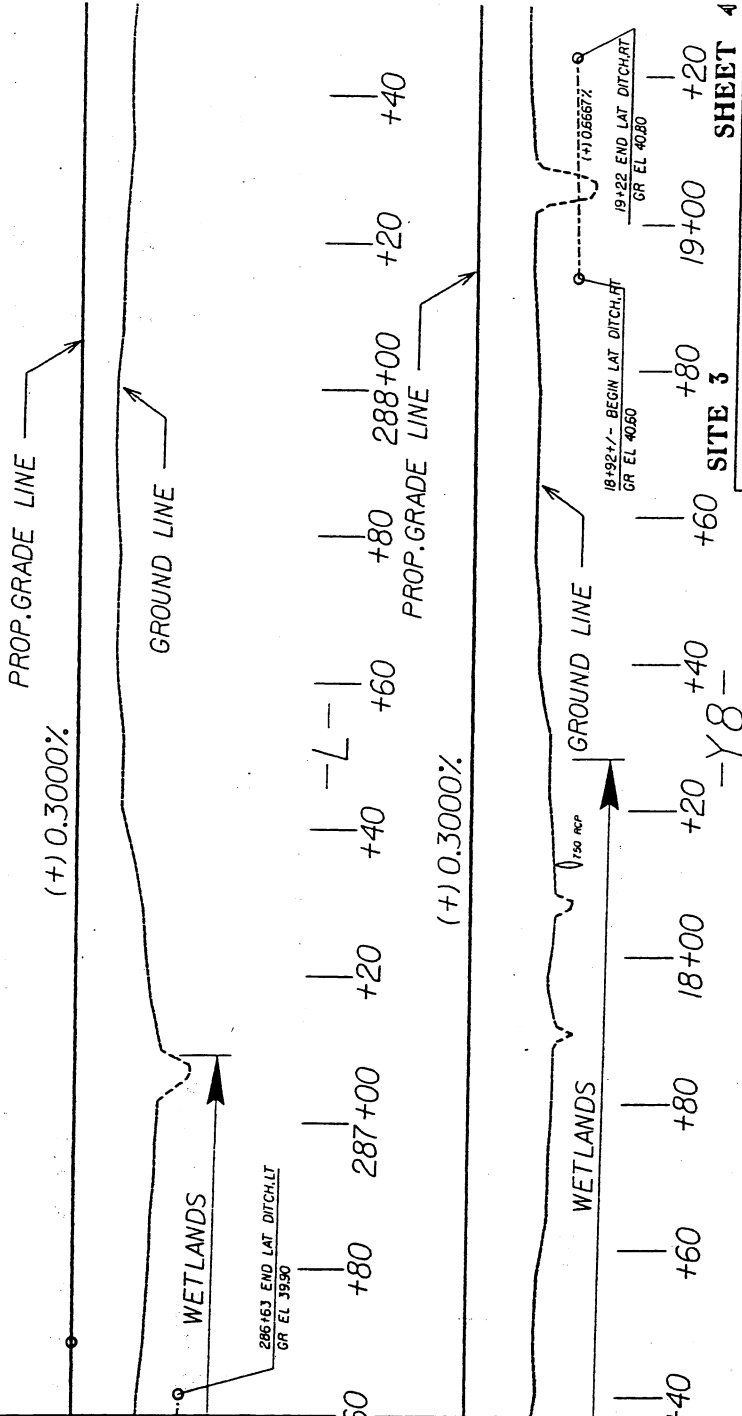
42

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46

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42

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SITE 3 SHEET 4

PROPOSED FILL IN WETLAND

N. C. DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS

ROBESON COUNTY

PROJECT 6.469200T - R-513C

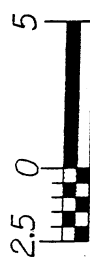
RELOCATION OF U.S. 74
FROM WEST OF S.R. 1164 TO
EAST OF N.C. 41

PROFILE VIEW

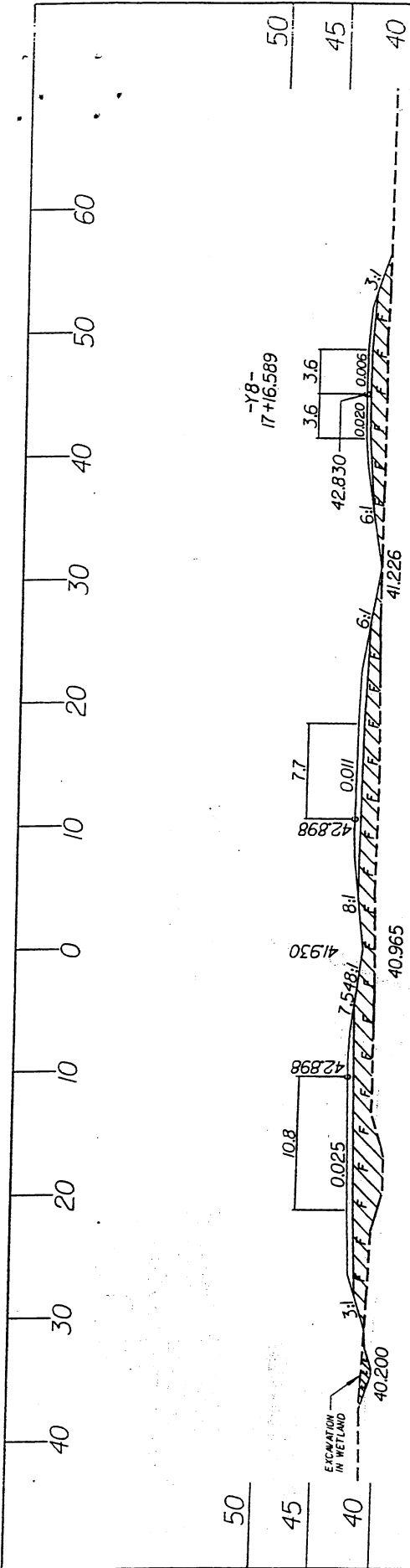
SITE 3



HORIZONTAL SCALE



VERTICAL SCALE



286+40.000

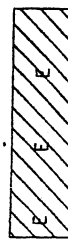
SECTION C-C

SITE 3 SHEET 5

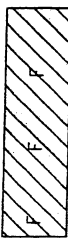
PROPOSED FILL IN WETLAND

CROSS-SECTION SITE 3

DENOTES EXCAVATION
IN WETLAND



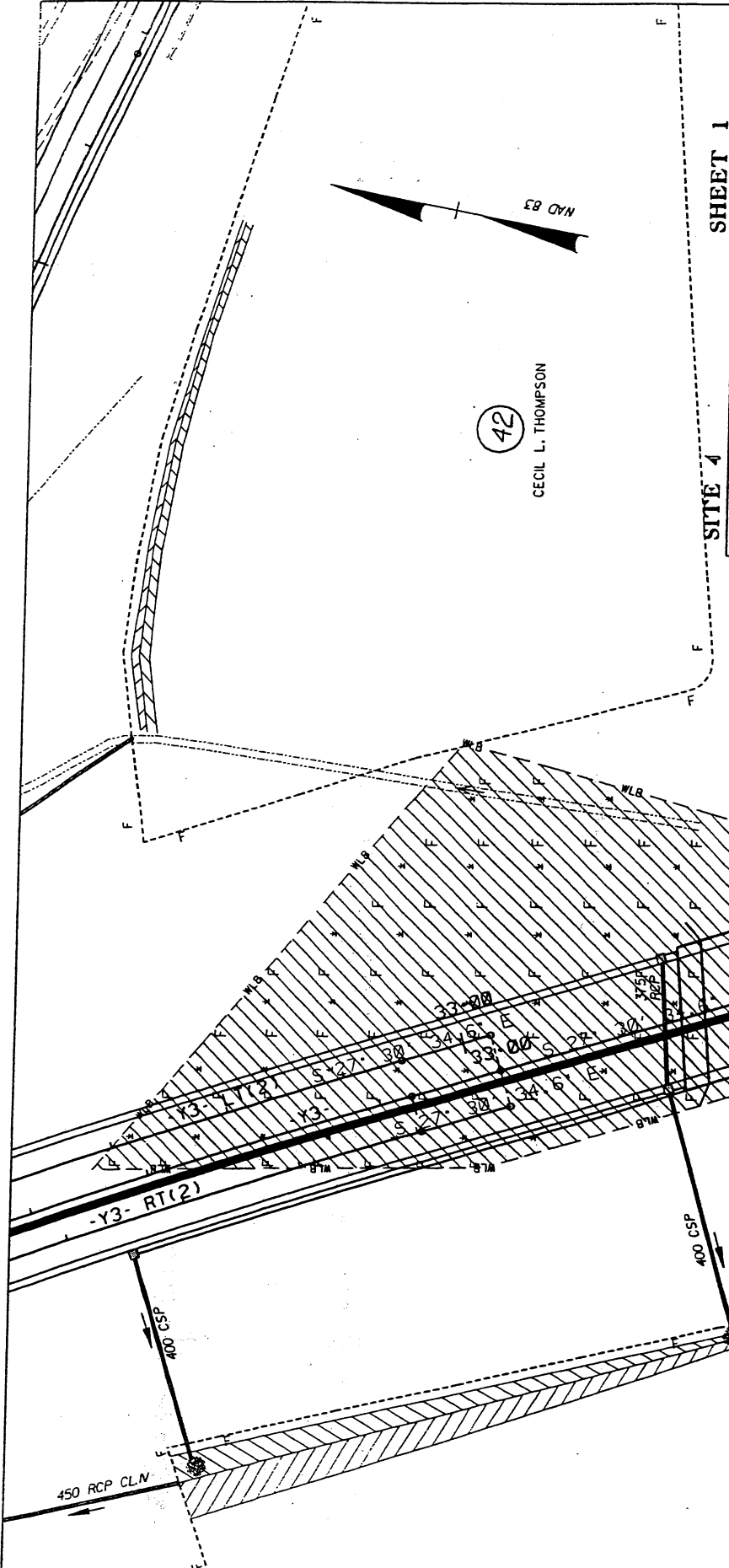
DENOTES FILL
IN WETLAND



SCALE

SHEET 21 OF 36
JUNE, 2000
Rev. APRIL, 2004

N.C. DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS
ROBESON COUNTY
PROJECT 6.469002T - R-513C
RELOCATION OF U.S.74
FROM WEST OF S.R.1164 TO
EAST OF N.C.41



SHEET 4

PROPOSED FILL IN WETLAND


N. C. DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS

ROBESON COUNTY
6.469002T - R-513C

RELOCATION OF U.S. 74
FROM WEST OF S.R. 1164 TO
EAST OF N.C. 41

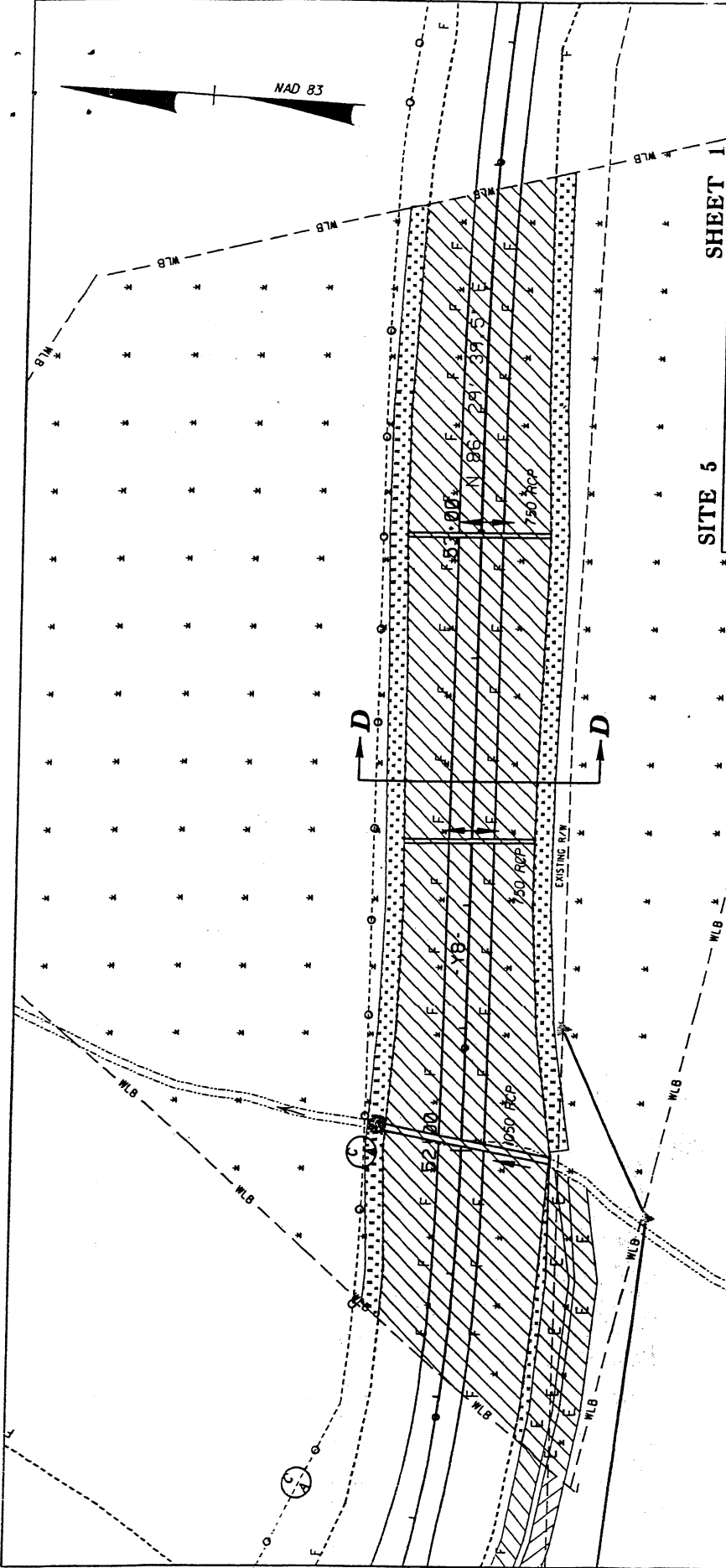
SHEET 22 OF 36 JUNE, 2000



 DENOTES FILL IN WETLAND
 DENOTES MECHANIZED CLEARING

PLAN VIEW
SITE 4

299.00



SITE 5 SHEET 1

PROPOSED FILL IN WETLAND

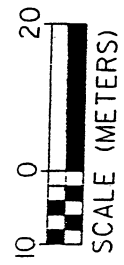
N.C. DEPT. OF TRANSPORTATION
 DIVISION OF HIGHWAYS
 ROBESON COUNTY
 PROJECT 6.469002T - R-513C
 RELOCATION OF U.S. 74
 FROM WEST OF S.R. 1164 TO
 EAST OF N.C. 41

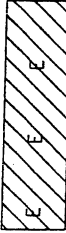
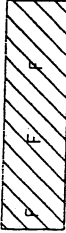
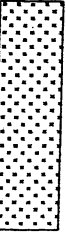
SHEET 23 OF 36
 JUNE, 2000
 Rev. APRIL, 2004

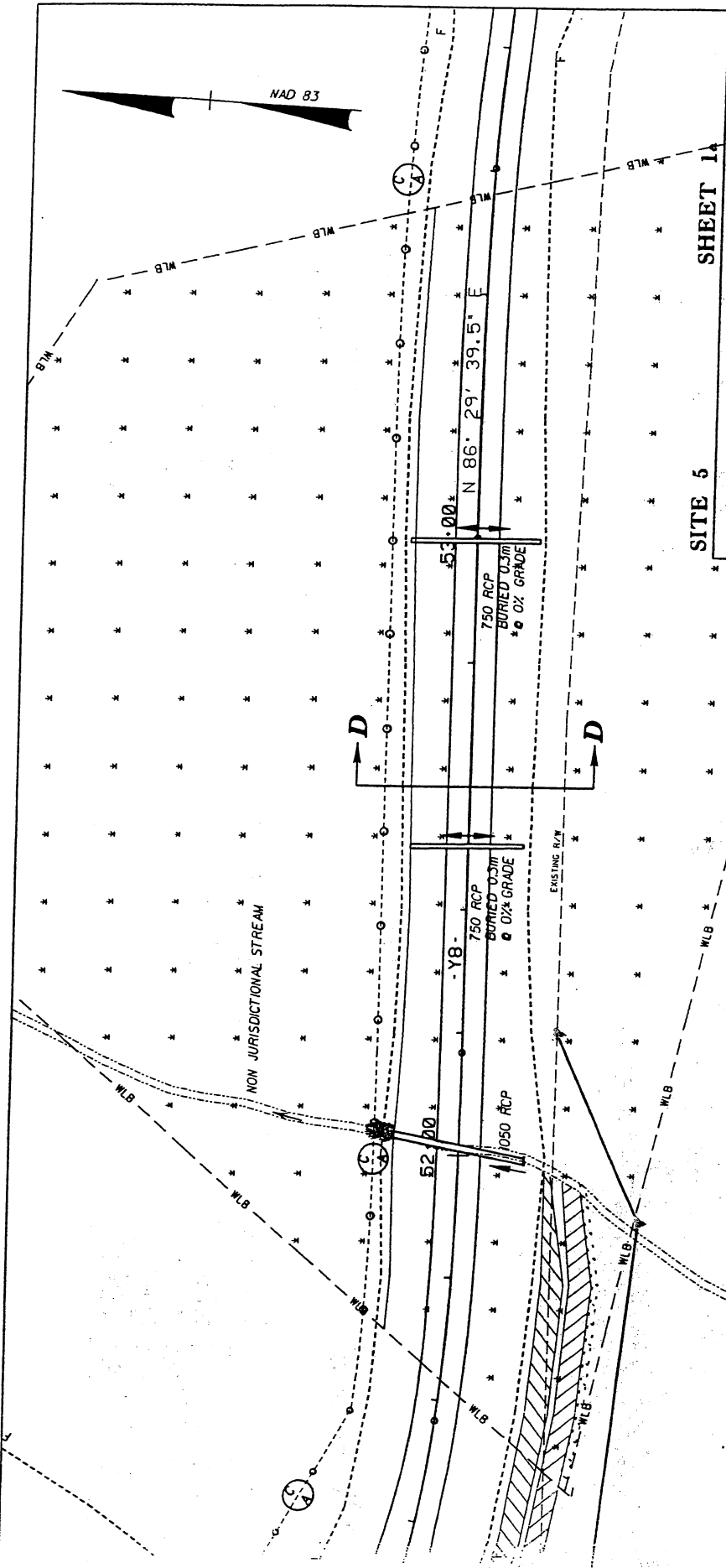
(47)

K. M. BIGGS, INC

PLAN VIEW
SITE 5



-  DENOTES EXCAVATION IN WETLAND
-  DENOTES FILL IN WETLAND
-  DENOTES MECHANIZED CLEARING



SITE 5 SHEET 1A

PROPOSED FILL IN WETLAND

N.C. DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS

ROBESON COUNTY

PROJECT 6.469002T - R-513C

RELOCATION OF U.S. 74

FROM WEST OF S.R. 1164 TO

EAST OF N.C. 41

JUNE, 2000

REV 3/2004

Rev. APRIL, 2004

SHEET 24 OF 36

47

K. M. BIGGS, INC.

PLAN VIEW

SITE 5

10 0 20

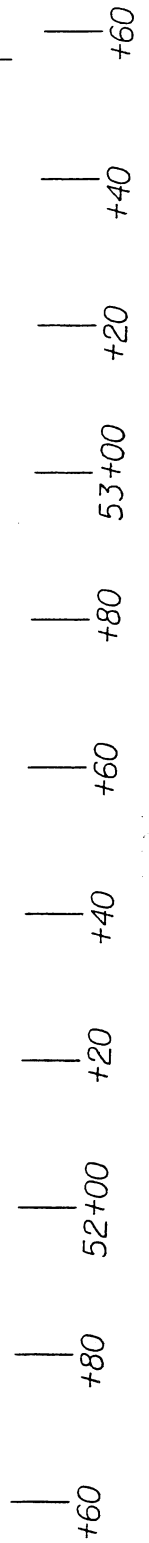
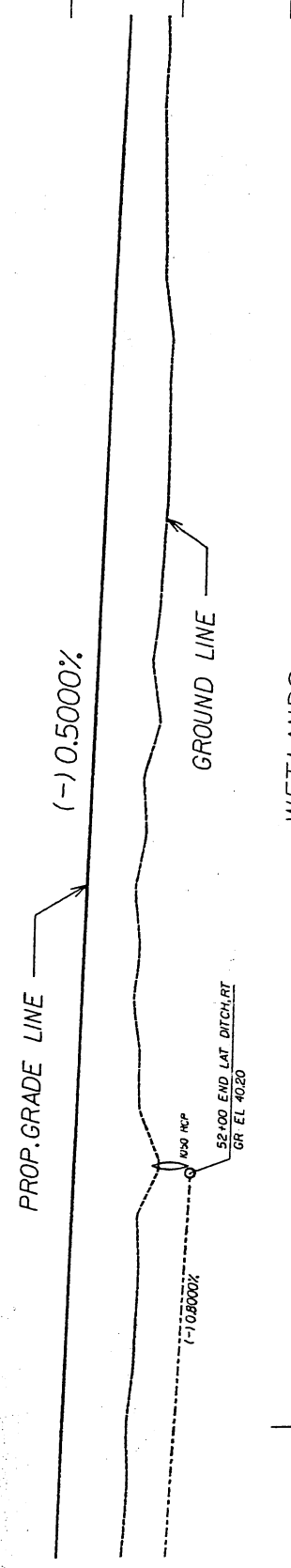


SCALE (METERS)

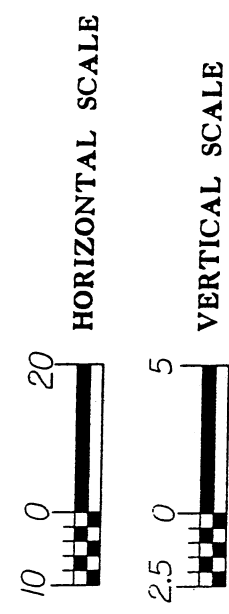


BOUSSINESQ EQUATION
DITCH IMPACTS

46
42
38



PROFILE VIEW
SITE 5



SITE 5 SHEET 2

PROPOSED FILL IN WETLAND

N. C. DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS
ROBESON COUNTY
PROJECT 6.469002T - R-513C
RELOCATION OF U.S. 74
FROM WEST OF S.R. 1164 TO
EAST OF N.C. 41

SHEET 25 OF 36

JUNE, 2000

50

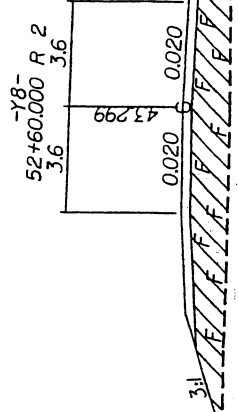
45

40

50

45

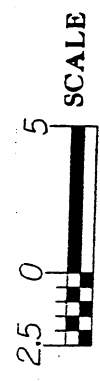
40



52+60.000

SECTION D-D

CROSS-SECTION SITE 5



SITE 5

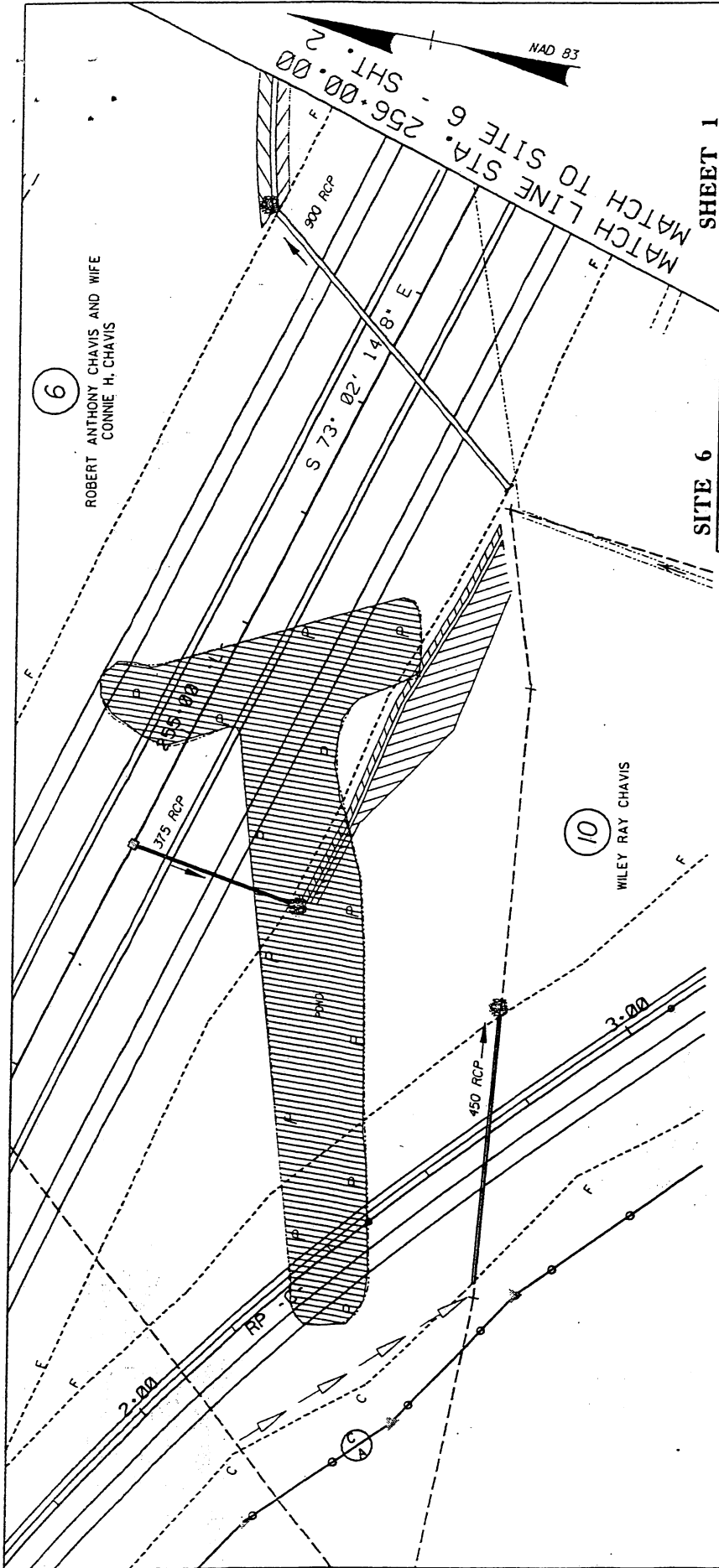
SHEET 3

PROPOSED FILL IN WETLAND

N. C. DEPT. OF TRANSPORTATION
 DIVISION OF HIGHWAYS
 ROBESON COUNTY
 PROJECT 6.469002T - R-513C
 RELOCATION OF U.S. 74
 FROM WEST OF S.R. 1164 TO
 EAST OF N.C. 41

SHEET 26 OF 36

JUNE, 2000
Rev. APRIL, 2004



SITE 6 SHEET 1

PROPOSED FILL IN
SURFACE WATER

PLAN VIEW
SITE 6

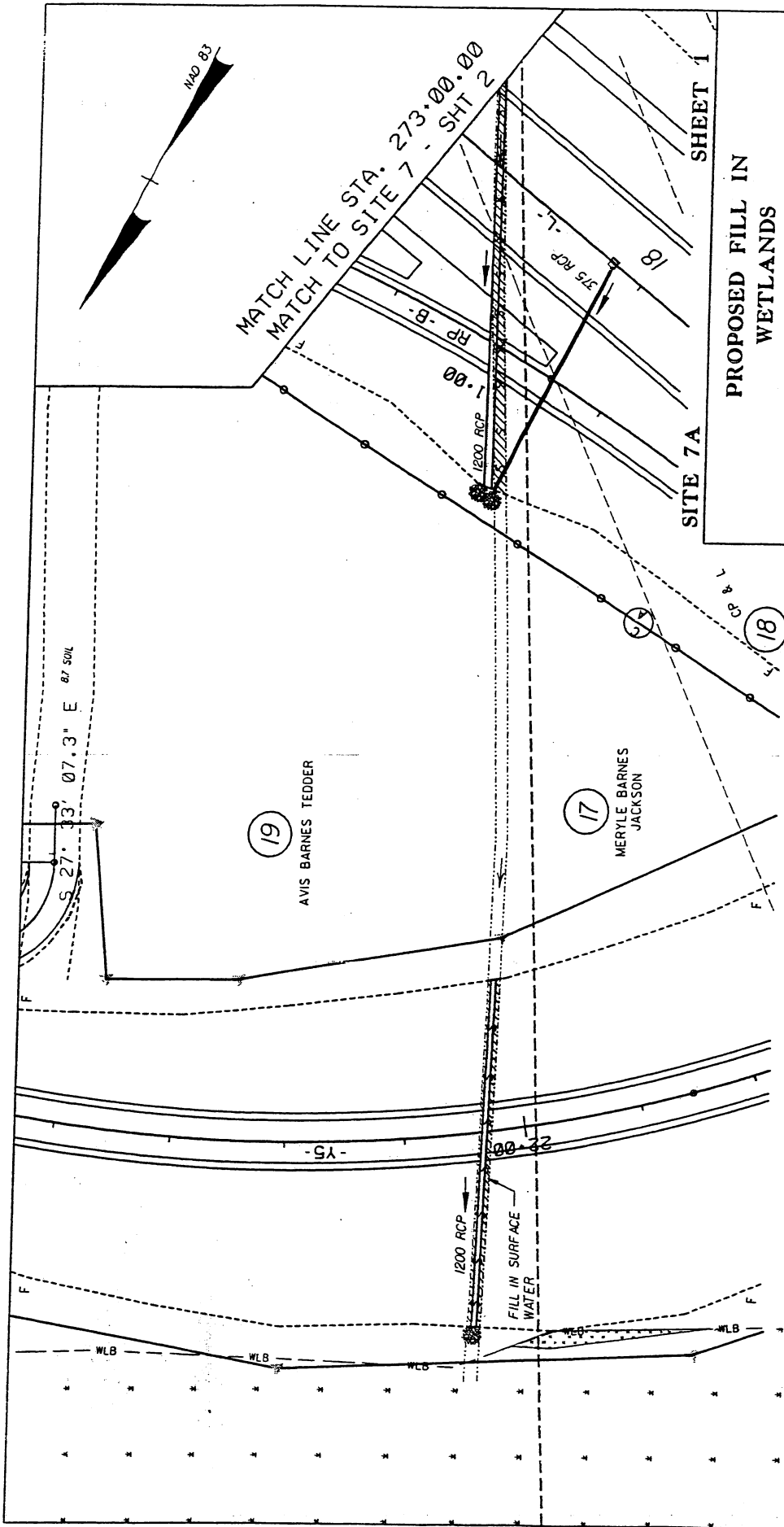
N.C. DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS
ROBESON COUNTY
PROJECT 63469002T - R-513C
RELOCATION OF U.S. 74
FROM WEST OF S.R. 1164 TO
EAST OF N.C. 41
REV. OCT., 2003
JUNE, 2000

SHEET 27 OF 36

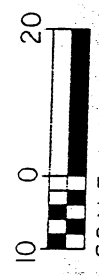


DENOTES FILL IN
POND





PLAN VIEW
SITE 7A



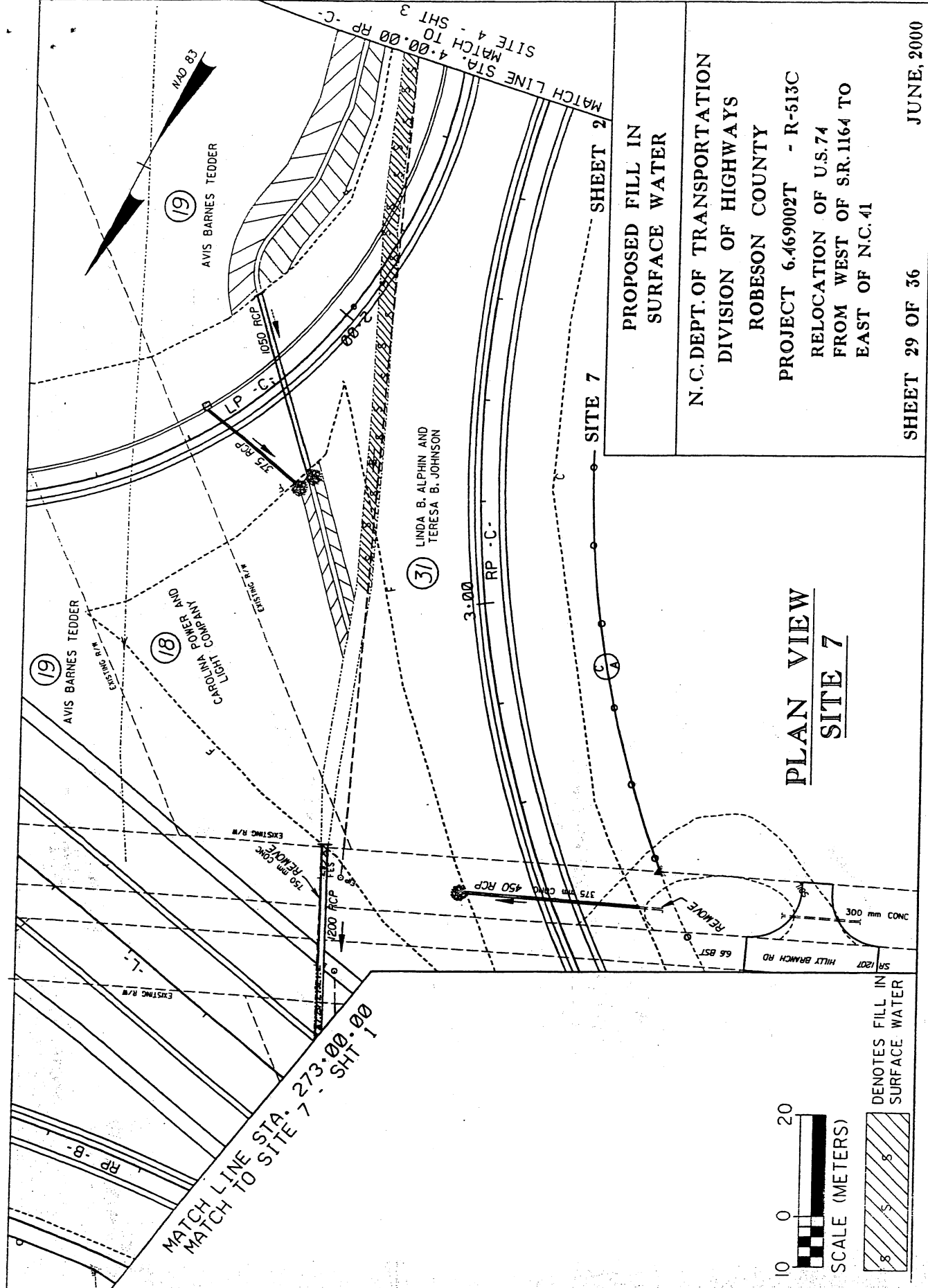
DENOTES
MECHANIZED
CLEARING



PROPOSED FILL IN
WETLANDS

N.C. DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS
ROBESON COUNTY
PROJECT 6.469002T - R-513C
RELOCATION OF U.S. 74
FROM WEST OF S.R. 1164 TO
EAST OF N.C. 41

SHEET 28 OF 36 OCTOBER, 2003



PROPOSED FILL IN
SURFACE WATER

N.C. DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS
ROBESON COUNTY
PROJECT 6.469002T - R-513C
RELOCATION OF U.S. 74
FROM WEST OF S.R. 1164 TO
EAST OF N.C. 41

SHEET 29 OF 36 JUNE, 2000

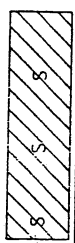
PLAN VIEW
SITE 7

MATCH LINE STA. 273+00.00
MATCH TO SITE 7 - SHT 1

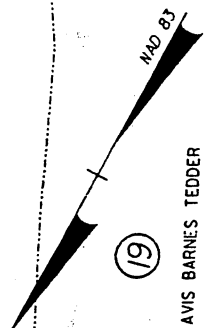
MATCH LINE STA. 4+00.00 RP - C-
MATCH TO SITE 4 - SHT 3

DENOTES FILL IN
SURFACE WATER

SCALE (METERS)
0 10 20



MATCH LINE STA. 4+00.00 RP - C - C
 MATCH TO SITE 7 - SHT 2

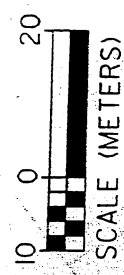


(19)

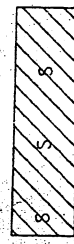
AVIS BARNES TEDDER

(31)

LINDA B. ALPHIN AND
 TERESA B. JOHNSON



SCALE (METERS)



DENOTES FILL IN
 SURFACE WATER

PLAN VIEW
SITE 7

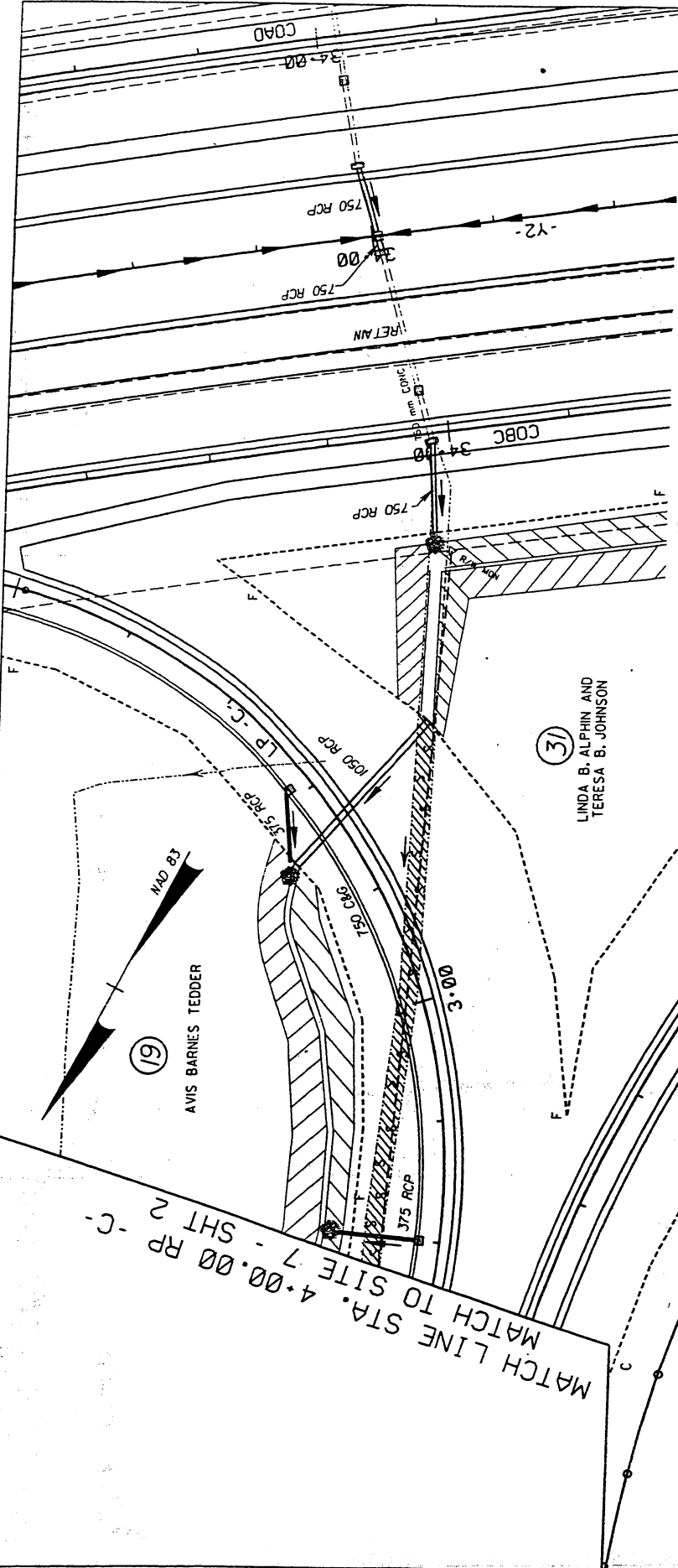
SHEET 3

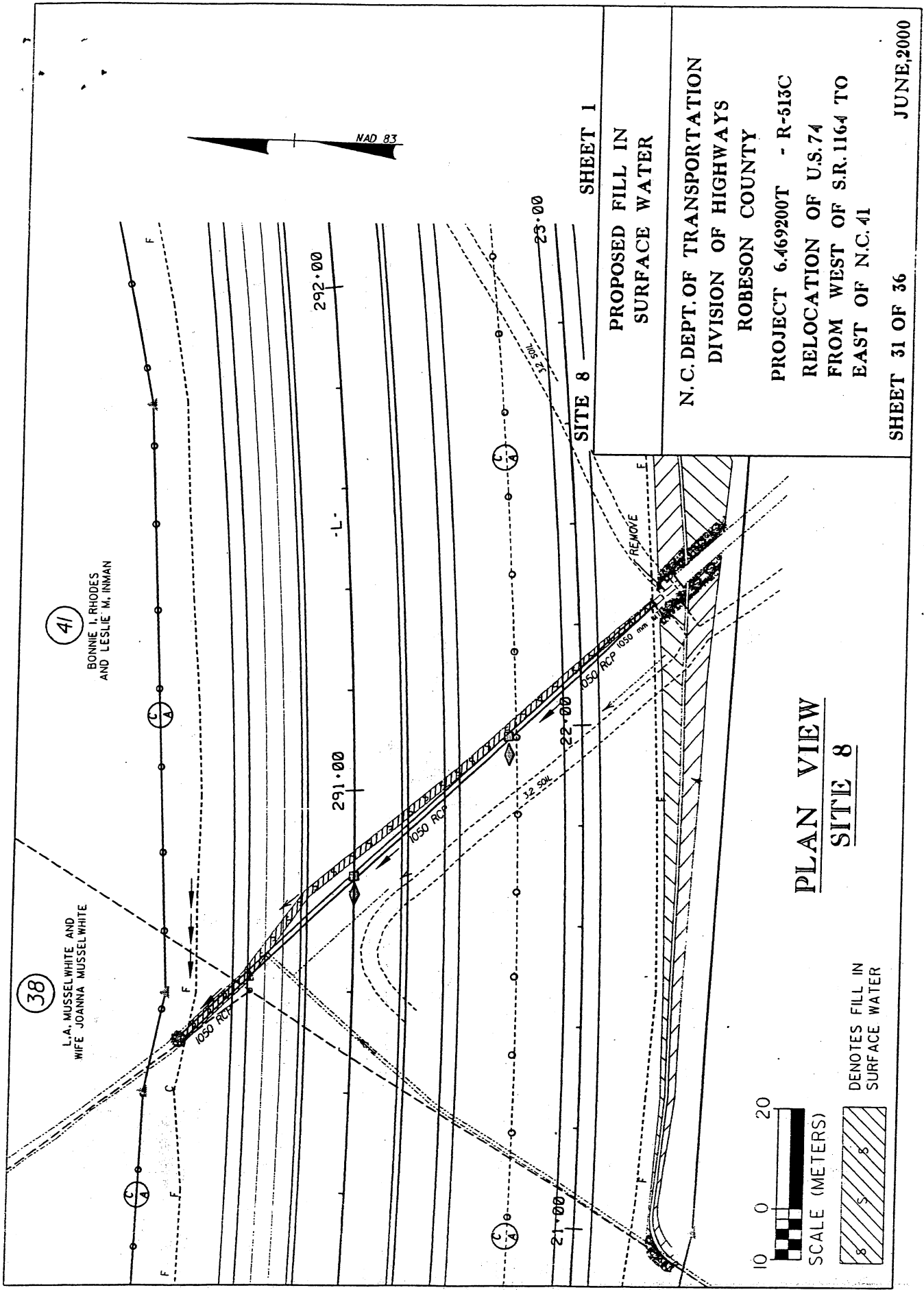
PROPOSED FILL IN
 SURFACE WATER

N.C. DEPT. OF TRANSPORTATION
 DIVISION OF HIGHWAYS
 ROBESON COUNTY
 PROJECT 6.469002T - R-513C
 RELOCATION OF U.S. 74
 FROM WEST OF S.R. 1164 TO
 EAST OF N.C. 41

SHEET 30 OF 36

MAY, 2000





SHEET 1

SITE 8

PROPOSED FILL IN
SURFACE WATER

N. C. DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS

ROBESON COUNTY

PROJECT 6.469200T - R-513C

RELOCATION OF U.S. 74

FROM WEST OF S.R. 1164 TO

EAST OF N.C. 41

SHEET 31 OF 36

JUNE, 2000

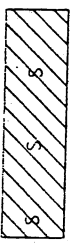
PLAN VIEW

SITE 8

10 0 20

SCALE (METERS)

DENOTES FILL IN
SURFACE WATER



42

CECIL L. THOMPSON

EXISTING R/W

14+00

15+00

18+00

1500 RCP

150 mm CONC

REMOVE

W S 82° 07' 10.7" E

REMOVE

307+00

RETAIN

150 mm CONC

RETAIN

309+00

W S 82° 18' 29.7" E

REMOVE

1350 RCP

REMOVE

39+00

S 82° 18' 29.7" E

REMOVE

REMOVE

SITE 9

SHEET 1

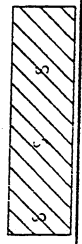
PROPOSED FILL IN SURFACE WATER

N. C. DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS
ROBESON COUNTY
PROJECT 6-469200T - R-513C
RELOCATION OF U.S.74
FROM WEST OF SR.1164 TO
EAST OF N.C.41

REV. OCT., 2003
JUNE, 2000
SHEET 32 OF 36



SCALE (METERS)



DENOTES FILL IN SURFACE WATER

PLAN VIEW
SITE 9

42

CECIL L. THOMPSON

NAD 83

IMPACT SUMMARY

Site No.	Station (From/To)	Structure Size	WETLAND IMPACTS					SURFACE WATER IMPACTS							
			Fill In Wetlands (ac)	Temp. Fill In Wetlands (ac)	Excavation In Wetlands (ac)	Boussinesq Equation Ditch Impacts (ac)	Mechanized Clearing (Method III) (ac)	Fill In SW (Natural) (ac)	Fill In SW (Pond) (ac)	Existing Channel Impacted (ft)	Relocated Channel (ft)	Enclosed Channel (ft)			
1	250+34 TO 253+07 -L-	8' x 6'	3.60		0.35		0.05								
		RCBC													
2	282+14 TO 282+72 -L-		2.57		0.12		0.93								
	12+23 TO 14+03 -Y8-														
3	285+59 TO 287+09 -L-	2@42"	3.93		0.05		0.27		0.15		827				781
	15+85 TO 18+27 -Y8-	RCP													
4	32+42 TO 33+42 -Y3-		1.17												
5	51+63 TO 53+56 -Y8-		1.08		0.09		0.01								
6	256+00 -L- LT & RT								0.54						
7	272+90 -L- LT & RT									0.25	1056		476		777
8	290+85 -L-	42" RCP								0.12		413			403
9	308+00-L-									0.05		230			216
1A	252+00 TO 257+00 -L-	66" RCP								0.54		2217			213
	11+80 TO 13+50 -Y1-														
2A	6+50 -RP"D"		0.09				0.04								
	TOTALS		12.44	0	0.61	0.01	1.55	1.10	0.54	4743	476	2391			

SITE 1: Wetlands considered total take
 Total fill, exc., boussinesq, mechanized clearing impacts=
 Additional wetlands for total take=
 Total SITE 1 Impacts=

4.00 acres
 4.47 acres
 8.47 acres

Total R-513C Impacts = (12.44 + 4.47 + 0.61 + 0.01 + 1.55) =

19.08 acres

N.C. DEPT. OF TRANSPORTATION
 DIVISION OF HIGHWAYS

ROBESON COUNTY

PROJECT: 6.469200T R-513C

Rev 4/2004
 Rev 3/2004
 JUNE, 2000

SHEET 33A OF 36

IMPACT SUMMARY

Site No.	Station (From/To)	Structure Size	WETLAND IMPACTS					SURFACE WATER IMPACTS								
			Fill In Wetlands (ha)	Temp. Fill In Wetlands (ha)	Excavation In Wetlands (ha)	Boussinesq Equation Ditch Impacts (ha)	Mechanized Clearing (Method III) (ha)	Fill In SW (Natural) (ha)	Fill In SW (Pond) (ha)	Existing Channel Impacted (m)	Relocated Channel (m)	Enclosed Channel (m)				
1	250+34 TO 253+07 -L-	2.4 x 1.8 RCBC	1.457		0.14		0.019									
2	282+14 TO 282+72 -L- 12+23 TO 14+03 -Y8-		1.039		0.047		0.377									
3	285+59 TO 287+09 -L- 15+85 TO 18+27 -Y8-	2@1050 RCP	1.589		0.02		0.11		0.061			252			238	
4	32+42 TO 33+42 -Y3-		0.472													
5	51+63 TO 53+56 -Y8-		0.438		0.036		0.004	0.101								
6	256+00 -L- LT & RT									0.217						
7	272+90 -L- LT & RT								0.1			322	145		237	
8	290+85 -L-	1050 RCP							0.047			126			123	
9	308+00-L-								0.019			70			66	
1A	252+00 TO 257+00 -L- 11+80 TO 13+50 -Y1-	1650 RCP							0.218			676			65	
2A	6+50 -RP"D"		0.038					0.016								
TOTALS			5.033	0	0.243	0.004	0.628	0.445	0.217	1446	145	729				

N.C. DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS

ROBESON COUNTY

PROJECT: 6.469200T R-513C

SHEET 33B OF 36

Rev 4/2004
Rev 3/2004
JUNE, 2000

PROPERTY OWNER

SITE	OWNER'S NAME	ADDRESS
1	H. B. Chavis	RT. 6 Box 376 Lumberton, NC 28358
	Wiley Ray Chavis	RT. 6 Box 364 A Lumberton, NC 28358
	John Jacobs	RT. 6 Box 335 Lumberton, NC 28358
	Dexter Locklear	102 Eagle Dr. Lumberton, NC 28358
	E. W. Stone	RT. 1 Box 221 Rowland, NC 28383
1A	H.B. Chavis and wife Lillian	Rt. 6 Box 376. Lumberton, NC 28358
	Doris C. Aitson	Rt. 6 Box 375 Lumberton, NC 28358
	Marquerite Chavis	13414 Oakdale Southgate, MI 48195
	Robert Anthony Chavis and wife Connie	RT. 1 Box 366 Lumberton, NC 28358
	Margarette Ako	RT. 1 Box 374 Lumberton, NC 28358
2	Maitland T. Clabaugh	35 Clairmont Ave 9N New York, NY 10027
	L. A. Musselwhite	RT. 1 Box 382 Lumberton, NC 28358

N. C. DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS

ROBESON COUNTY

PROJECT: 6.469002 - R-513 C

RELOCATION OF US 74
FROM WEST OF SR 1164
TO EAST OF NC 41

PROPERTY OWNER

SITE OWNER'S NAME ADDRESS

2A N. C. DOT

3 Robert L. Currie, Jr. 1311 West 5th St.
Lumberton, NC 28358

L. A. Musselwhite RT. 1 Box 382
Lumberton, NC 28358

4 Cecil Thompson 1403 Elm St.
Lumberton, NC 28358

5 K. M. Biggs, INC. PO Box 967
Lumberton, NC 28359

6 Robert Chavis RT. 6 Box 366
Lumberton, NC 28358

7 Linda B. Alphin 4900 Independence Dr. #29
Lumberton, NC 28358

Carolina Power and Light 347 Military Cutoff Rd.
Wilmington, NC 28405

Meryle Barnes Jackson 2418 Colgate Dr.
Fayetteville, NC 28304

Avis Barnes Tedder 300 Martin St.
Fairmont, NC 283408

N. C. DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS

ROBESON COUNTY

PROJECT: 6.469002 - R-513 C

RELOCATION OF US 74
FROM WEST OF SR 1164
TO EAST OF NC 41

PROPERTY OWNER

SITE	OWNER'S NAME	ADDRESS
8	L. A. Musselwhite	RT. 1 Box 382 Lumberton, NC 28358
	Bonnie I. Rhodes	1171 West 8th St. Lumberton, NC 28358
9	Cecil Thompson	1403 Elm St. Lumberton, NC 28358

N. C. DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS

ROBESON COUNTY

PROJECT: 6.469002 - R-513 C

RELOCATION OF US 74
FROM WEST OF SR 1164
TO EAST OF NC 41