

PROJECT SPECIAL PROVISIONS
PERMITS

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

PERMIT**AUTHORITY GRANTING THE PERMIT**

Dredge and Fill and/or
Work in Navigable Waters (404)

U. S. Army Corps of Engineers

Water Quality (401)

Division of Environmental Management, DENR,
State of North Carolina

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

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

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

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

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

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



REPLY TO
ATTENTION OF:

September 2, 2004

Regulatory Division

SUBJECT: 199503519, TIP R-2514A, US 17 Widening from SR 1327/1410 North of Jacksonville to SR 1330/1439 South of Belgrade/Maysville, Onslow County, North Carolina.

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 your written request of February 12, 2004 and April 21, 2004 and the resulting administrative record, enclosed are two copies of a Department of the Army permit to authorize the discharge of dredged and fill material into waters of the United States, for construction of TIP Project No. R-2514A, US 17 widening from SR 1327/1410 North of Jacksonville to SR 1330/1439 South of Belgrade/Maysville, Onslow County, North Carolina.

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, shows 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. Dave Timpy of the Wilmington Field Office regulatory staff at telephone (910) 251-4634.

Sincerely,

A handwritten signature in cursive script that reads "E. David Franklin".

E. David Franklin
Chief, NCDOT Team

Enclosures

DEPARTMENT OF THE ARMY PERMIT

NC Department of Transportation

Permittee _____

199503519

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:

Place fill material impacting a total of impacting a total of 32.18 acre of wetlands and 776 linear feet of perennial stream, for construction of the US 17 Widening project (T.I.P. Project No. R-2514A).

Project Location:

The proposed project is located on US 17 in Onslow County and extends 5.9 miles from the northern limit of the City of Jacksonville to the Onslow County line near the town of Belgrade. TIP Project No. R-2514A is one of four segments of the R-2514 project.

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.

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

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

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

a. You fail to comply with the terms and conditions of this permit.

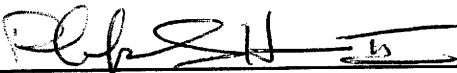
b. The information provided by you in support of your permit application proves to have been false, incomplete, or inaccurate (See 4 above).

c. Significant new information surfaces which this office did not consider in reaching the original public interest decision.

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

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

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


(PERMITTEE)

9/7/04
(DATE)

NC DEPARTMENT OF TRANSPORTATION

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

(DISTRICT ENGINEER)

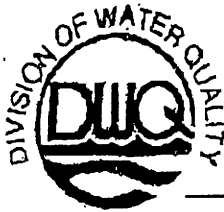
(DATE)

CHARLES R. ALEXANDER, JR. COLONEL

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

(TRANSFEREE)

(DATE)



Michael F. Easley, Governor
William G. Ross Jr., Secretary
North Carolina Department of Environment and Natural Resources
Alan W. Klimek, P.E. Director
Division of Water Quality

September 1, 2004

Dr. Gregory J. Thorpe, Ph.D., Manager
Planning and Environmental Branch
North Carolina Department of Transportation
1548 Mail Service Center
Raleigh, North Carolina, 27699-1548

Dear Dr. Thorpe:

Re: 401 Water Quality Certification Pursuant to Section 401 of the Federal Clean Water Act.
This certification authorizes the NCDOT to place fill material in 22.37 acres of jurisdictional wetlands, perform excavation in 3.88 acres of jurisdictional wetlands, perform mechanized clearing in 4.34 acres of jurisdictional wetlands, and drain 1.59 acres of jurisdictional wetlands. In addition, you are authorized to fill 776 linear feet of streams. The project shall be constructed pursuant to the application dated February 12, 2004, and the addendum dated April 12, 2004, to construct the widening of US 17 from SR 1327/1410 north of Jacksonville to SR 1330/1439 south of Belgrade in Onslow County.
WQC Project No. 040198

Attached hereto is a copy of Certification No. 3472 issued to The North Carolina Department of Transportation dated September 1, 2004.

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

Sincerely,

Alan W. Klimek, P.E.
Director

Attachments

- cc: Wilmington District Corps of Engineers
- Dave Timpy, Corps of Engineers Wilmington Field Office
- DWQ Washington Regional Office
- Cathy Brittingham, Division of Coastal Management
- Bill Gilmore, Ecosystem Enhancement Program
- File Copy

APPROVAL OF 401 Water Quality Certification and ADDITIONAL CONDITIONS

THIS CERTIFICATION is issued in conformity with the requirements of Section 401 Public Laws 92-500 and 95-217 of the United States and subject to the North Carolina Division of Water Quality (DWQ) Regulations in 15 NCAC 2H, Section .0500, and 15 NCAC 2B .0259. This certification authorizes the NCDOT to place fill material in 22.37 acres of jurisdictional wetlands, perform excavation in 3.88 acres of jurisdictional wetlands, perform mechanized clearing in 4.34 acres of jurisdictional wetlands, and drain 1.59 acres of jurisdictional wetlands. In addition, you are authorized to fill 776 linear feet of streams. The project shall be constructed pursuant to the application dated February 12, 2004, and the addendum dated April 12, 2004, to construct the widening of US 17 from SR 1327/1410 north of Jacksonville to SR 1330/1439 south of Belgrade in Onslow County.

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

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

Condition(s) of Certification:

1. Construction will be conducted in such a manner as to prevent a significant increase in turbidity outside the area of construction or construction-related discharge. Erosion and sediment control practices must be in full compliance with all specifications governing the proper design, installation and operation and maintenance of such Best Management Practices in order to assure compliance with the appropriate turbidity water quality standard.
 - a. The erosion and sediment control measures for the project must equal or exceed the proper design, installation, operation and maintenance outlined in the most recent version of the North Carolina Sediment and Erosion Control Planning and Design Manual. These devices shall be maintained on all construction sites, borrow sites, and waste pile (spoil) projects, including contractor-owned or leased borrow pits associated with the project.
 - b. For borrow pit sites, the erosion and sediment control measures must equal or exceed the proper design, installation, operation and maintenance outlined in the most recent version of the North Carolina Surface Mining Manual. The reclamation measures and implementation must comply with the reclamation in accordance with the requirements of the Sedimentation Pollution Control Act.
2. All 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 after the Division of Land Resources has released the project; .

3. If an environmental document is required, this Certification is not valid until a FONSI or ROD is issued by the State Clearinghouse. All water quality-related conditions of the FONSI or ROD shall become conditions of this Certification;
4. No live or fresh concrete shall come into contact with waters of the state until the concrete has hardened.
5. There shall be no excavation from or waste disposal into jurisdictional wetlands or waters associated with this permit without appropriate modification of this permit. Should waste or borrow sites be located in wetlands or stream, compensatory mitigation will be required since it is a direct impact from road construction activities.
6. All channel relocations will be constructed in a dry work area, and stabilized before stream flows are diverted. Channel relocations will be completed and stabilized prior to diverting water into the new channel. Whenever possible, channel relocations shall be allowed to stabilize for an entire growing season. Vegetation used for bank stabilization shall be limited to native woody species, and should include establishment of a 30 foot wide wooded and an adjacent 20 foot wide vegetated buffer on both sides of the relocated channel to the maximum extent practical. A transitional phase incorporating coir fiber and seedling establishment is allowable. Also, rip-rap may be allowed if it is necessary to maintain the physical integrity of the stream, but the applicant must provide written justification and any calculations used to determine the extent of rip-rap coverage requested.
- *7. 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 401/Wetlands Unit of the Division of Water Quality upon completion of the project.
8. Placement of culverts and other structures in waters, streams, and wetlands must be placed below the elevation of the streambed to allow low flow passage of water and aquatic life unless it can be shown to 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 disequilibrium 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.
9. NCDOT shall provide documentation to the NC Division of Water Quality with 2 months of the issuance of this 401 Water Quality Certification that demonstrates acceptance of the riparian buffer mitigation by the NC Wetlands Restoration Program, or the NC Ecosystem Enhancement Program.
10. During the construction of the project, no staging of equipment of any kind is permitted in waters of the U.S., or protected riparian buffers.
11. All temporary fills in wetlands and surface waters shall be removed upon completion of the project. In addition, the post-construction removal of any temporary bridge structures or fill will need to return the project site to its preconstruction contours and elevations. The revegetation of the impacted areas with appropriate native species will be required.
12. Riparian vegetation must be reestablished within the construction limits of the project by the end of the growing season following completion of construction.
13. The dimension, pattern and profile of the stream above and below the crossing should not be modified by widening the stream channel or reducing the depth of the stream. Disturbed floodplains and streams should be restored to natural geomorphic conditions.

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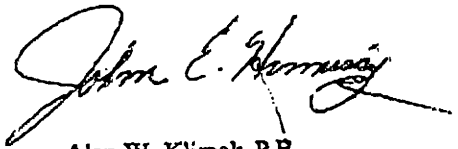
14. Any riprap used must not interfere with thalweg performance and aquatic life passage during low flow conditions.
15. All mechanized equipment operated near surface waters must be regularly inspected and maintained to prevent contamination of stream waters from fuels, lubricants, hydraulic fluids, or other toxic materials.
16. Discharging hydroseed mixtures and washing out hydroseeders and other equipment in or adjacent to surface waters is prohibited.
- * 17. Two copies of the final construction drawings shall be furnished to NCDWQ prior to the pre-construction meeting. Written verification shall be provided that the final construction drawings comply with the attached permit drawings contained in the application dated February 12, 2004, and the addendum dated April 12, 2004.
18. All protected riparian buffers impacted by the placement of temporary fill or clearing activities shall be restored to the preconstruction contours and revegetated with native woody species upon completion of the project construction. A post-construction as-built with the restoration activities included shall be submitted to the DWQ no later than 60 days after the project is closed out by the Department of Transportation.
19. The outside buffer, wetland or water boundary as well as along the construction corridor within these boundaries approved under this authorization shall be clearly marked by orange fabric fencing for the areas that have been approved to infringe within the buffer, wetland or water prior to any land disturbing activities.
20. 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). Before modifying the certification, DWQ shall notify NCDOT and the US Army Corps of Engineers, provide public notice in accordance with 15A NCAC 2H.0503 and provide opportunity for public hearing in accordance with 15A NCAC 2H.0504. 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.
21. A copy of this Water Quality Certification shall be posted on the construction site at all times. In addition, the Water Quality Certification (and all subsequent modifications, if any, shall be maintained with the Division Engineer and the on-site project manager.
22. Culverts that are less than 48-inch in diameter should be buried to a depth equal to or greater than 20% of their size to allow for aquatic life passage. Culverts that are 48-inch in diameter or larger should be buried at least 12 inches below the stream bottom to allow natural stream bottom material to become established in the culvert following installation and to provide aquatic life passage during periods of low flow. These measurements must be based on natural thalweg depths.

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

If this Certification is unacceptable to you have the right to an adjudicatory hearing upon written request within sixty (60) days following receipt of this Certification. This request must be in the form of a written petition conforming to Chapter 150B of the North Carolina General Statutes and filed with the Office of Administrative Hearings, P.O. Box 27447, Raleigh, N.C. 27611-7447. If modifications are made to an original Certification, you have the right to an adjudicatory hearing on the modifications upon written request within sixty (60) days following receipt of the Certification. Unless such demands are made, this Certification shall be final and binding.

This the 1st day of September 2004

DIVISION OF WATER QUALITY



Alan W. Klimek, P.E.
Director

WQC No. 3472

DWQ Project No.: _____ County: _____

Applicant: _____

Project Name: _____

Date of Issuance of 401 Water Quality Certification: _____

*** Certificate of Completion**

Upon completion of all work approved within the 401 Water Quality Certification or applicable Buffer Rules, and any subsequent modifications, the applicant is required to return this certificate to the 401/Wetlands Unit, North Carolina Division of Water Quality, 1621 Mail Service Center, Raleigh, NC, 27699-1621. This form may be returned to DWQ by the applicant, the applicant's authorized agent, or the project engineer. It is not necessary to send certificates from all of these.

Applicant's Certification

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

Signature: _____ Date: _____

Agent's Certification

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

Signature: _____ Date: _____

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 and Buffer Rules, the approved plans and specifications, and other supporting materials.

Signature: _____ Registration No. _____

Date _____

SPECIAL CONDITIONS (Action ID. 199503519; NCDOT/TIP No. R-2514A)

1. All work must be performed as shown on the attached plans, which are a part of this permit. Failure to institute and carry out the details of the following special conditions, below, will result in a directive to cease all ongoing and permitted work within waters and/or wetlands associated with the permitted project, or such other remedies and/or fines as the District Engineer or his authorized representatives may seek.
2. One copy of the final construction drawings shall be furnished to the District Engineer prior to the pre-construction meeting. Written verification shall be provided that the final construction drawings comply with the attached permit drawings. 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. Dave Timpy, Wilmington Regulatory Field Office prior to any active construction in waters or wetlands.
3. The permittee shall schedule a preconstruction meeting between its representatives, the contractor's representatives, and the Corps of Engineers, Wilmington Regulatory Field Office NCDOT Regulatory Project Manager, prior to any work within jurisdictional waters and wetlands to ensure that there is a mutual understanding of all of the terms and conditions contained within this Department of the Army Permit. The permittee shall notify the Corps of Engineers Project Manager a minimum of thirty (30) days in advance of the scheduled meeting in order to provide that individual with ample opportunity to schedule and participate in the required meeting.
4. 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. 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.
5. The temporary placement or double handling of excavated or fill material or construction equipment and materials within waters and wetlands is not authorized.
6. All fill material must be adequately stabilized at the earliest practicable date to prevent erosion of fill material into adjacent waters or wetlands.
7. All fill material will be clean and free of any pollutants except in trace quantities.
8. The permittee shall remove all sediment and erosion control measures placed in wetlands or waters, and restore natural grades in those areas, prior to final inspection of the project.

9. This permit authorizes the clearing of an additional ten (10) feet beyond the slope stake limits in wetlands, as shown on the plans, to install the necessary sediment and erosion control measures.

10. The permittee shall take measures to prevent live or fresh concrete from coming into contact with any surface waters until the concrete has hardened.

11. The permittee will 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 having it transferred to a third party.

12. No attempt will be made by the permittee to prevent the full and free use by the public of all navigable waters at or adjacent to the authorized work. Use of the permitted activity must not interfere with the public's right to free navigation on all navigable waters of the United States.

13. The permittee understands and agrees that, if future operations by the United States require the removal, relocation, or other alteration of the structures or work herein authorized, or if, in the opinion of the Secretary of the Army or his authorized representative, said structure or work shall cause unreasonable obstruction to the free navigation of the navigable water, the permittee will be required, upon due notice from the Corps of Engineers, to remove, relocate, or alter the structural work or obstructions caused thereby, without expense to the United States. No claim shall be made against the United States on account of any such removal or alteration.

✱14. Compensatory mitigation for the 32.18 acres of wetland impacts and 708 feet of jurisdictional stream impacts associated with his project shall be performed as described in the letter from the North Carolina Department of Transportation dated March 8, 2004 (Revised July 30, 2004) and shall be provided by the North Carolina DENR Ecosystem Enhancement Program (EEP), as outlined in the letter dated July 30, 2004 from William D. Gilmore, EEP Transition Manager. The EEP will provide the compensatory mitigation in the Southern Outer Coastal Plain Eco-Region for the unavoidable impacts associated with TIP Project R-2514A as follows:

| Type | Amount | Location |
|--|--------------|--|
| Riverine Wetland Preservation (10:1) | 30.90 acres | NE Cape Fear Wells Tract Site, Pender County |
| Non-Riverine Wetland Preservation (10:1) | 290.90 acres | Wallace Deer Club Tract 1 and 2, Pender County |
| Stream Preservation (10:1) | 2,675 feet | NC Cape Fear Wells Tract Site, Pender County |
| Stream Preservation (10:1) | 2,340 feet | Wallace Deer Club Tract 1 and 2, Pender County |
| Stream Preservation (10:1) | 2,065 feet | Hancock Timber, Onslow and Pender County |

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 10.06 acres of non-riverine wetland restoration, 2.39 acres of riverine wetland

restoration, and 390 linear feet of restoration of warm water stream channel in the White Oak watershed (Hydrologic Cataloging Unit 03030001) and 19.03 acres of non-riverine wetland restoration, 0.701 acres of riverine wetland restoration, and 318 linear feet of restoration of warm water stream channel in the New River watershed (Hydrologic Cataloging Unit 03020106) 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.

15. 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.

16. 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.

17. To ensure that all borrow and waste activities occur on high ground and do not result in the loss or 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 (16.) 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 (16.). 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. All jurisdictional wetland lines on borrow and waste sites shall be verified by the Corps of Engineers and shown on the approved reclamation plans.

18. If the permittee discovers any previously unknown historic or archeological remains while accomplishing the authorized work, he will immediately notify the Wilmington District Engineer who will initiate the required State/Federal coordination.

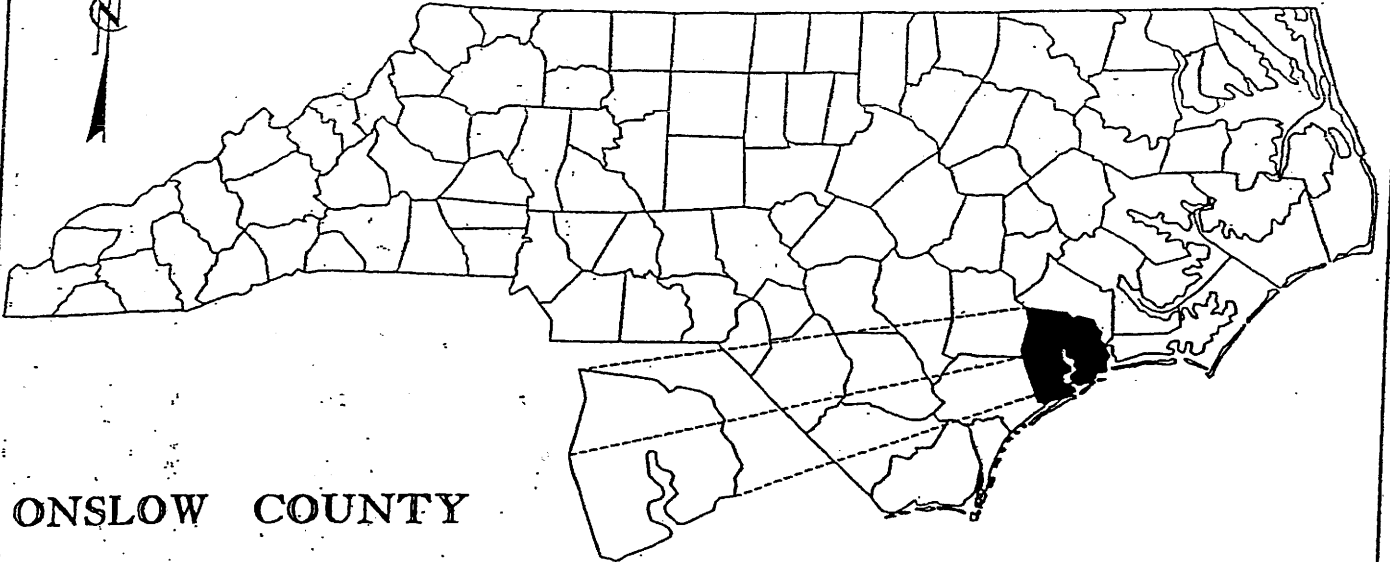
19. All culverts must be buried a minimum of 20 percent of the culvert diameter or at least one foot below the bed of the stream or wetland.

20. No activity may substantially disrupt the movement of those species of aquatic life indigenous to the waterbody, including those species that normally migrate through the area, unless the activity's primary purpose is to impound water. Culverts placed in streams must be installed to maintain low flow conditions.

21. All conditions attached to the Section 401 Water Quality Certification for this project, issued September 1, 2004, are incorporated as conditions of this permit.

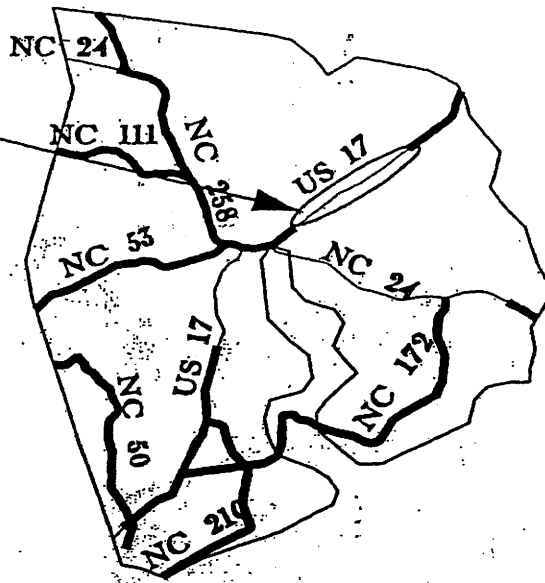
22. A moratorium on all work in the waters Starky's Creek and its tributaries will be in effect from February 15 to September 30 of any year.

NORTH CAROLINA



ONSLOW COUNTY

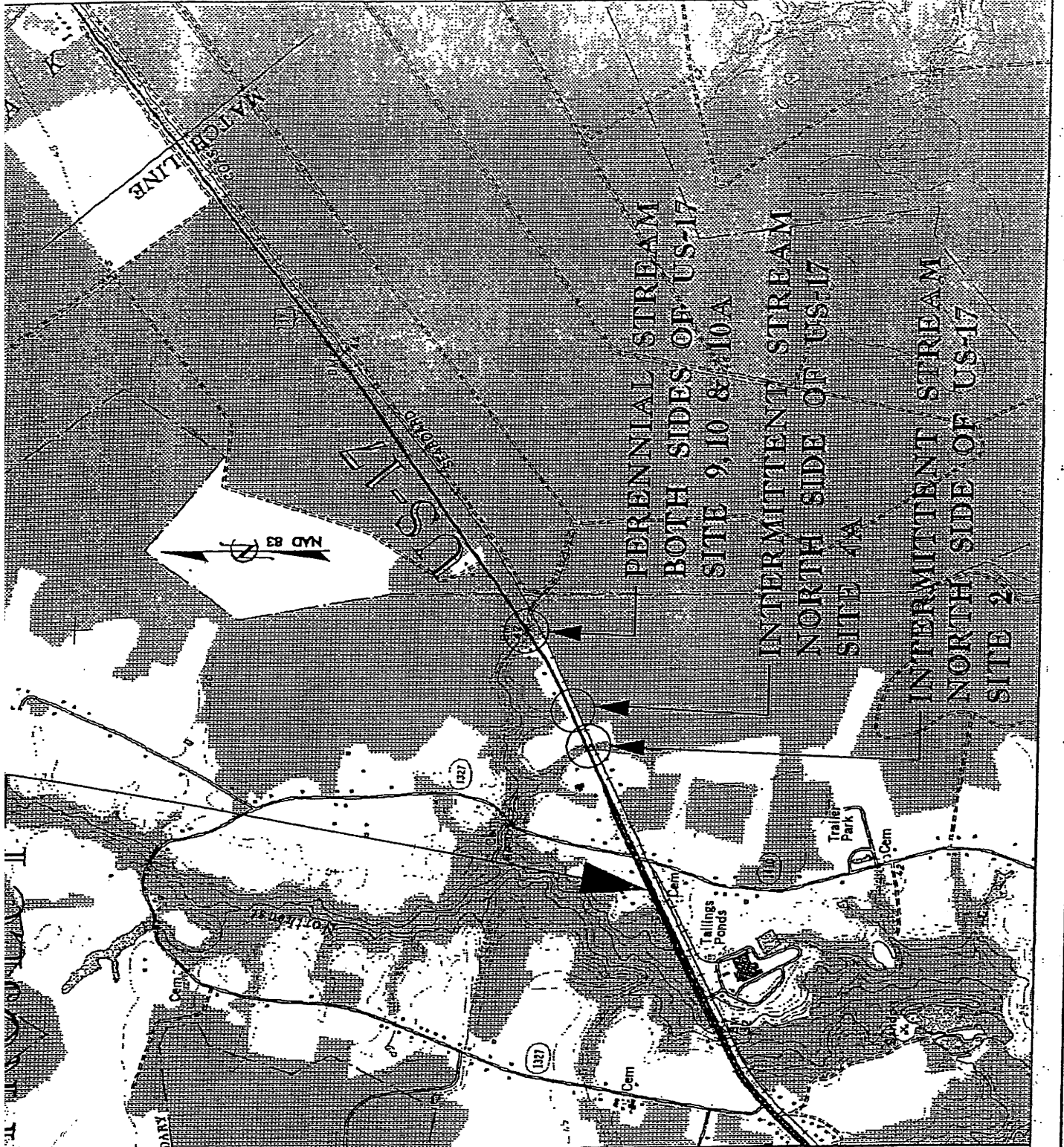
PROJECT SITE



VICINITY MAP

NCDOT
DIVISION OF HIGHWAYS
ONSLOW COUNTY
PROJECT: 8.T190301 (R-2514A)
US 17 NORTH OF JACKSONVILLE
FROM SR 1327 / SR 1410
TO SR 1330 / SR 1439

SHEET 1 OF 81 DATE 7/14/03



R-2514A

NC. DEPT. OF TRANSPORTATION
 DIVISION OF HIGHWAYS
 ONSLOW COUNTY
 STATE PROJ: 8.T190301 (R-2514A)
 US 17 NORTH OF JACKSONVILLE FROM
 SR 1327 TO SR 1330/1439
 SCALE AS SHOWN
 SHEET 2 OF 81 DATE 1/16/04

END PROJECT R-2514A

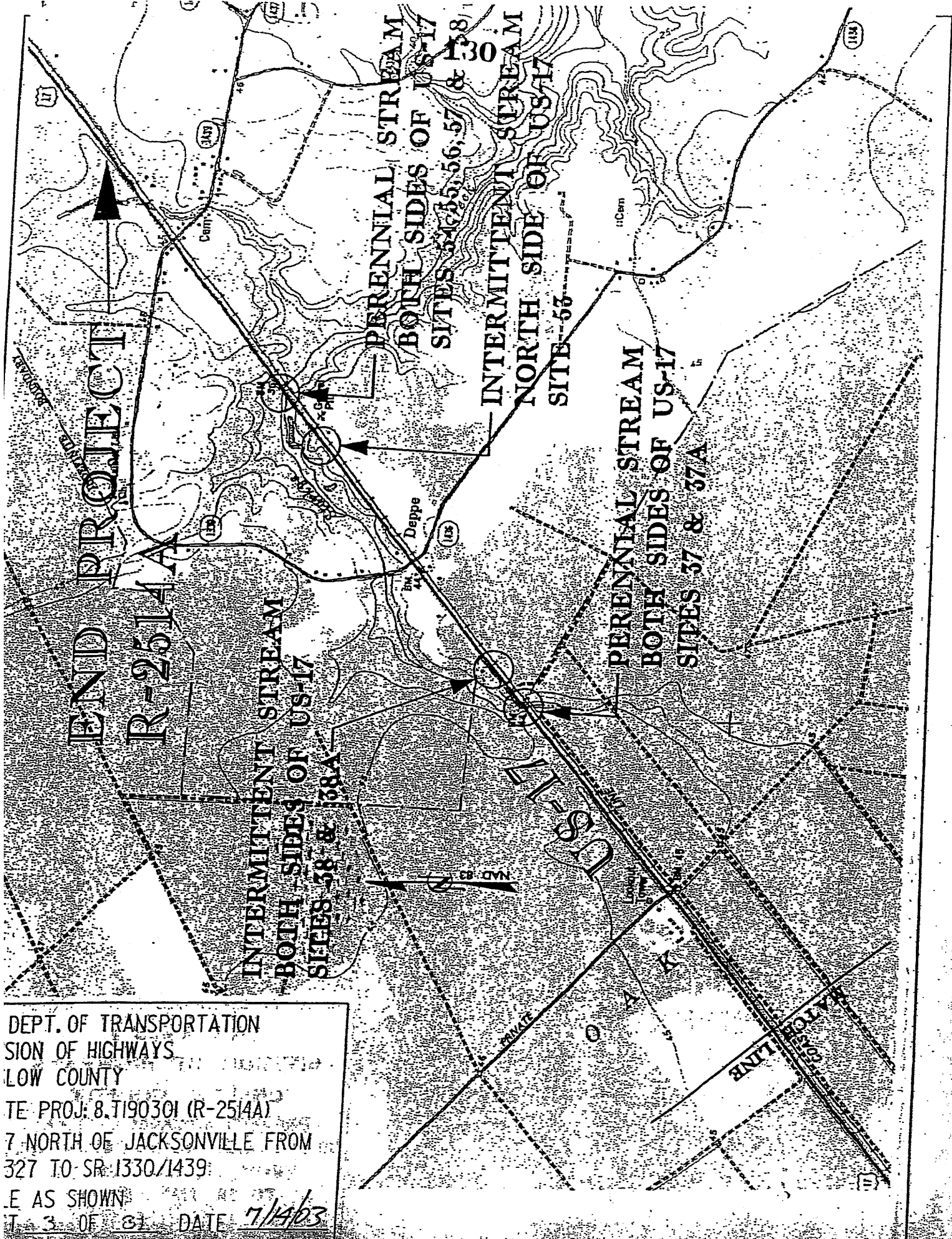
INTERMITTENT STREAM
BOTH SIDES OF US-17
SITES 38 & 38A

PERENNIAL STREAM
BOTH SIDES OF US-17
SITES 35, 56, 57 & 58

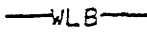





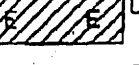
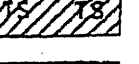
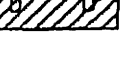


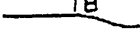
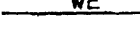
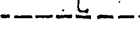
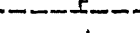

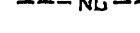

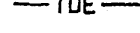




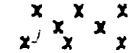


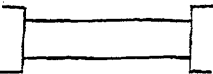
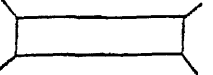
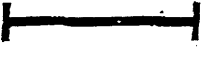



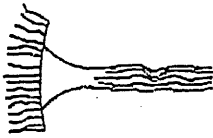




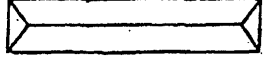
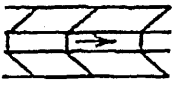
INTERMITTENT STREAM
NORTH SIDE OF US-17
SITE 56

PERENNIAL STREAM
BOTH SIDES OF US-17
SITES 37 & 37A

DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS
LOW COUNTY
PROJECT: 8.T190301 (R-2514A)
7-NORTH OF JACKSONVILLE FROM
327 TO SR-1330/1439
AS SHOWN
T. 3 OF 31 DATE 7/19/03

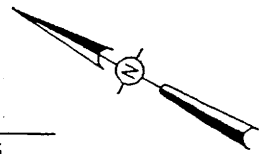
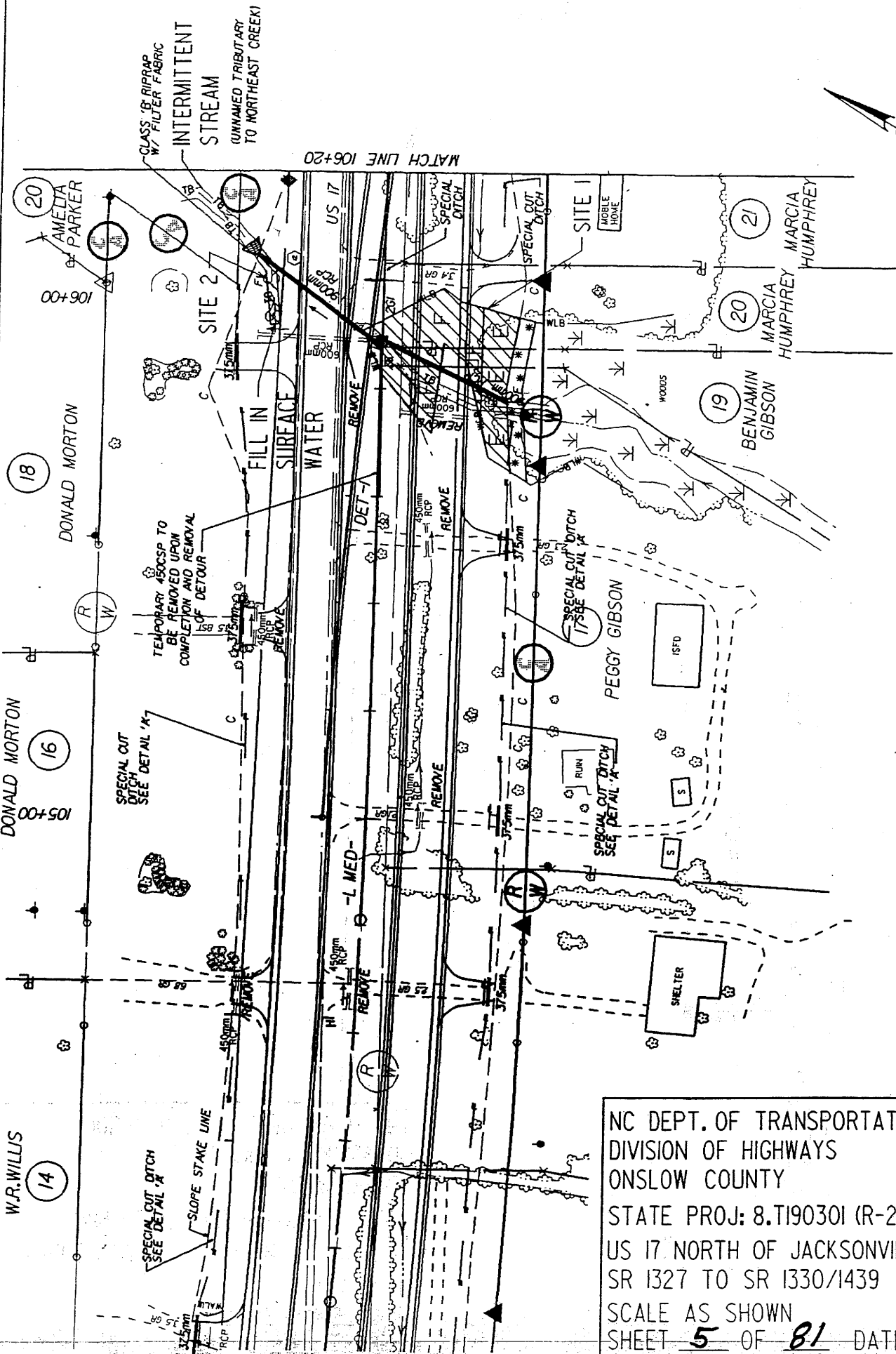


WETLAND LEGEND

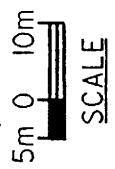
-  WLB WETLAND BOUNDARY
-  WLB WETLAND
-  DENOTES FILL IN WETLAND
-  DENOTES FILL IN SURFACE WATER
-  DENOTES FILL IN SURFACE WATER (POND)
-  DENOTES TEMPORARY FILL IN WETLAND
-  DENOTES EXCAVATION IN WETLAND
-  DENOTES TEMPORARY FILL IN SURFACE WATER
-  DENOTES DRAINED WETLAND
-  DENOTES MECHANIZED 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
-  CORE FIBER ROLLS
-  PROPOSED BRIDGE
-  PROPOSED BOX CULVERT
-  PROPOSED PIPE CULVERT
12'-48' PIPES
54' PIPES & ABOVE
- 
-  SINGLE TREE
-  WOODS LINE
-  DRAINAGE INLET
-  ROOTWAD
-  RIP RAP
-  5 ADJACENT PROPERTY OWNER OR PARCEL NUMBER IF AVAILABLE
-  PREFORMED SCOUR HOLE
-  LEVEL SPREADER (LS)
-  DITCH / GRASS SWALE

NCDOT
 DIVISION OF HIGHWAYS
 ONSLOW COUNTY
 PROJECT: 8-T190301 (R-2514A)
 US 17 NORTH OF JACKSONVILLE
 FROM SR 1327 / SR 1410
 TO SR 1330 / SR 1439

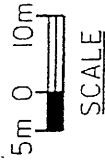
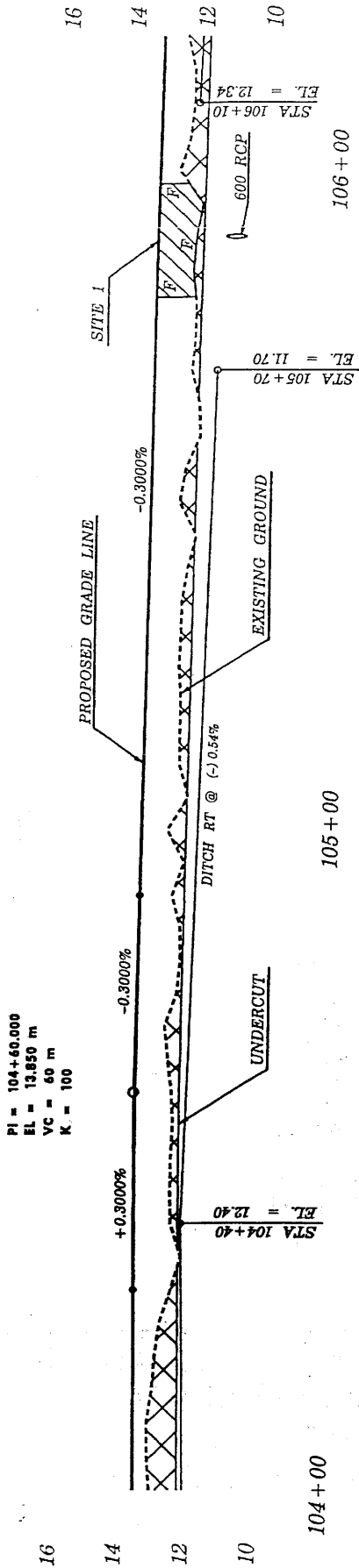
SHEET 4 OF 31 DATE 7/14/03



PLAN VIEW
SITE 1 & 2

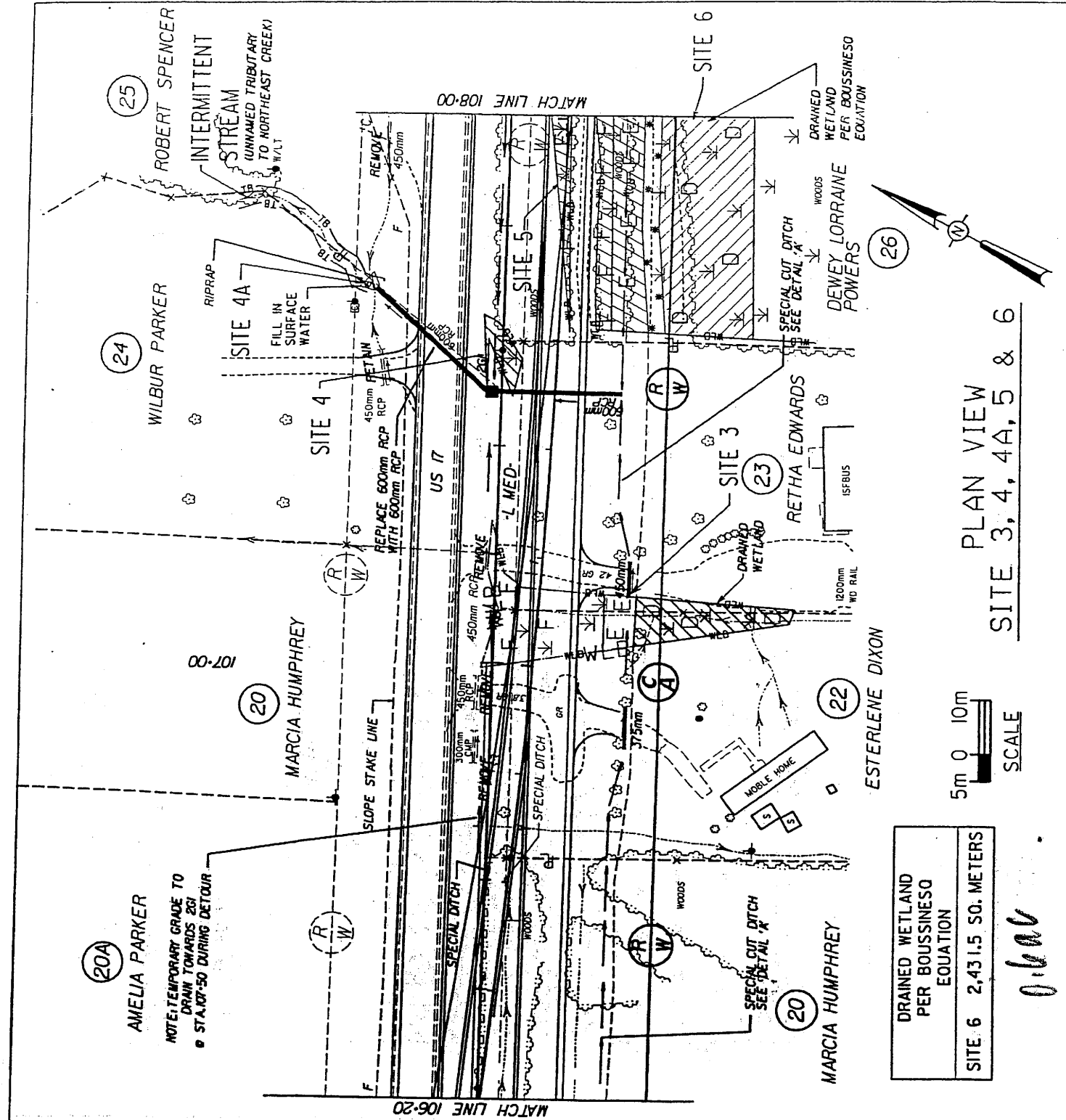


NC DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS
ONSLow COUNTY
STATE PROJ: 8.T190301 (R-2514A)
US 17 NORTH OF JACKSONVILLE FROM
SR 1327 TO SR 1330/1439
SCALE AS SHOWN
SHEET 5 OF 81 DATE 1/16/04



PROFILE VIEW
SITE 1

NC DEPT. OF TRANSPORTATION
 DIVISION OF HIGHWAYS
 ONSLOW COUNTY
 STATE PROJ: 8.T190301 (R-2514A)
 US 17 NORTH OF JACKSONVILLE FROM
 SR 1327 TO SR 1330/1439
 SCALE AS SHOWN
 SHEET 6 OF 81 DATE 7/14/03



20A

AMELIA PARKER

NOTE: TEMPORARY GRADE TO DRAIN TOWARDS 231 @ STA. 107+50 DURING DETOUR

20

MARCIA HUMPHREY

107-00

24

WILBUR PARKER

25

ROBERT SPENCER

INTERMITTENT STREAM (UNNAMED TRIBUTARY TO NORTHEAST CREEK)

SITE 4A

FILL IN SURFACE WATER

SITE 4

SLOPE STAKE LINE

MATCH LINE 106-20

US 17

MATCH LINE 108-00

SITE 5

SITE 6

SITE 3

20

MARCIA HUMPHREY

ESTERLENE DIXON

26

DRAINED WETLAND PER BOUSSINESQ EQUATION

SITE 6 2,431.5 SQ. METERS

0.666

5m 0 10m SCALE

PLAN VIEW SITE 3, 4, 4A, 5 & 6

NC DEPT. OF TRANSPORTATION
 DIVISION OF HIGHWAYS
 ONSLOW COUNTY
 STATE PROJ: 8.T190301 (R-2514A)
 US 17 NORTH OF JACKSONVILLE FROM
 SR 1327 TO SR 1330/1439
 SCALE AS SHOWN
 SHEET 7 OF 81 DATE 9/11/03

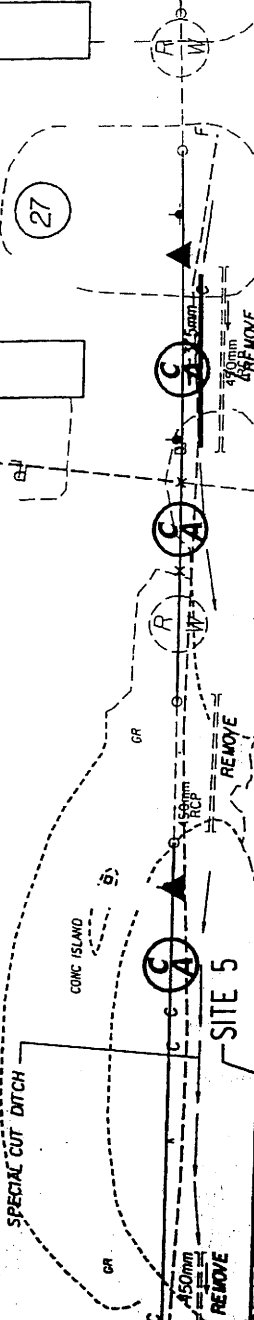
MATCH LINE 109-80

ISIRABUS
GOVIND PATEL
(27)

00-601

(25)
ROBERT SPENCER

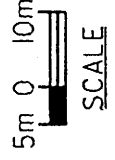
108-00



MATCH LINE 108-00

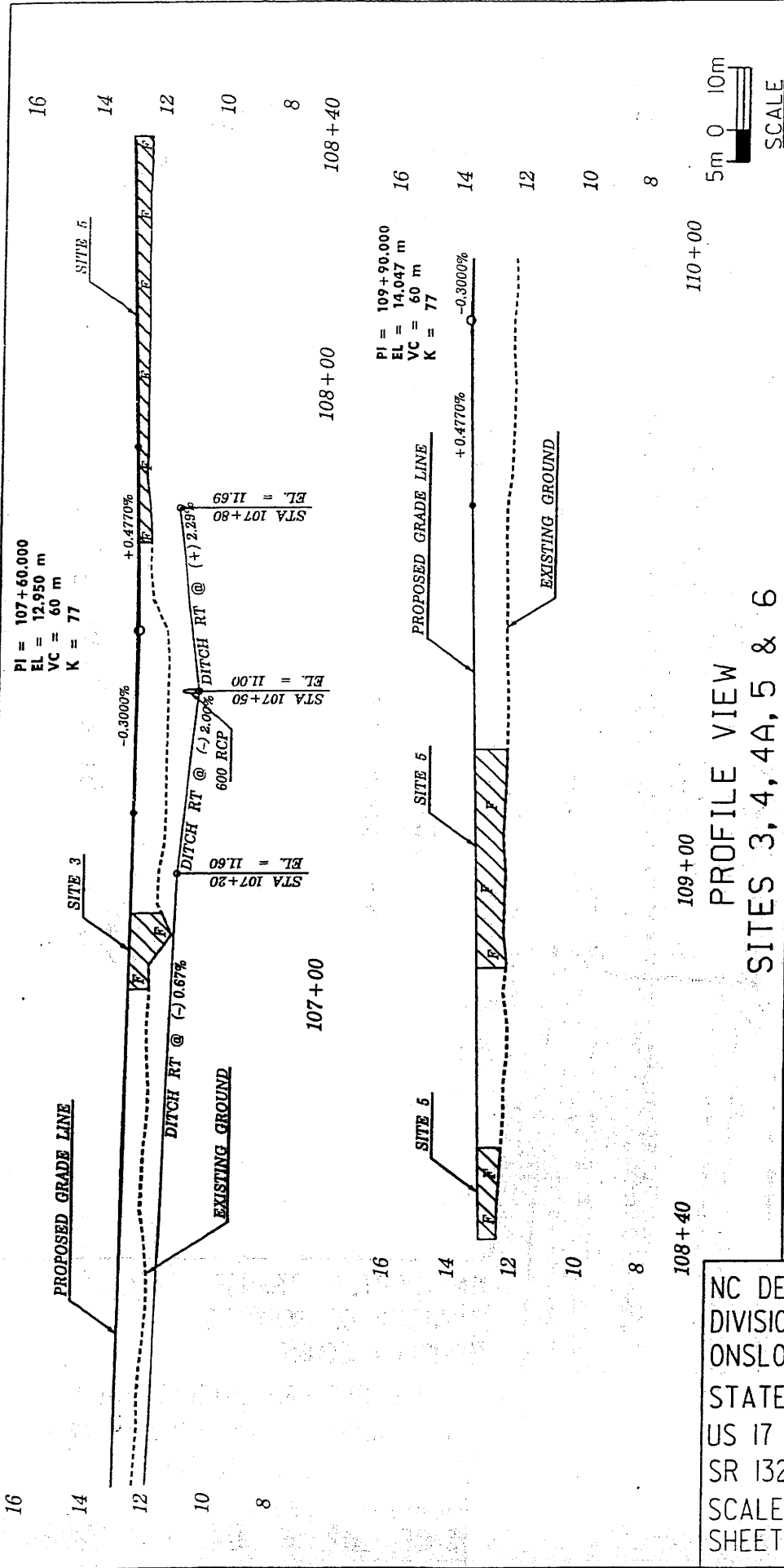
DEWEY LORRAINE POWERS (26)
DRAINED WETLAND PER BOUSSINESO EQUATION

| |
|---|
| DRAINED WETLAND PER BOUSSINESO EQUATION |
| SITE 6 2,431.5 SQ. METERS |

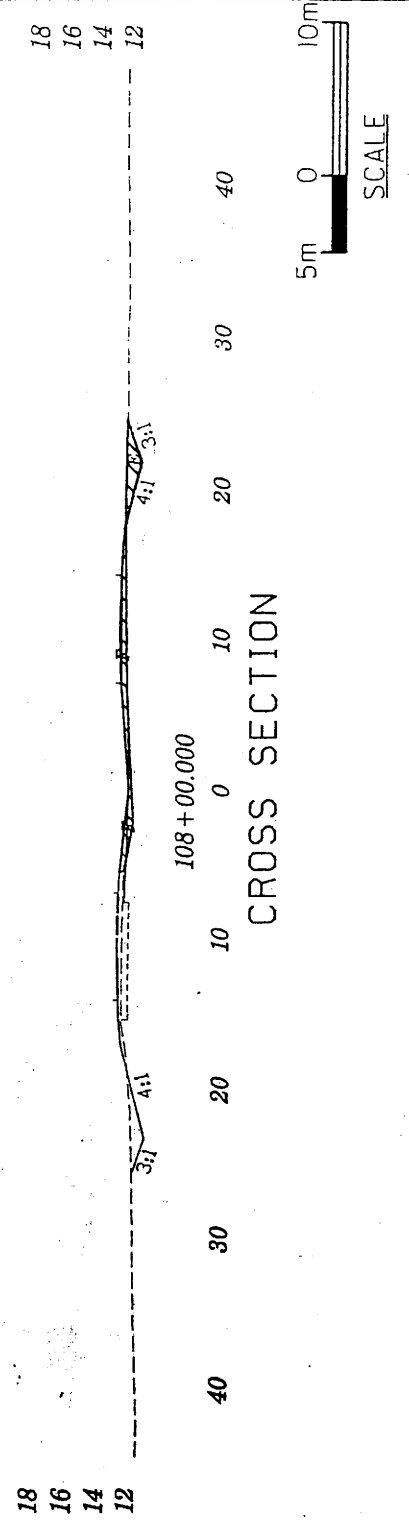


PLAN VIEW
SITE 5 & 6

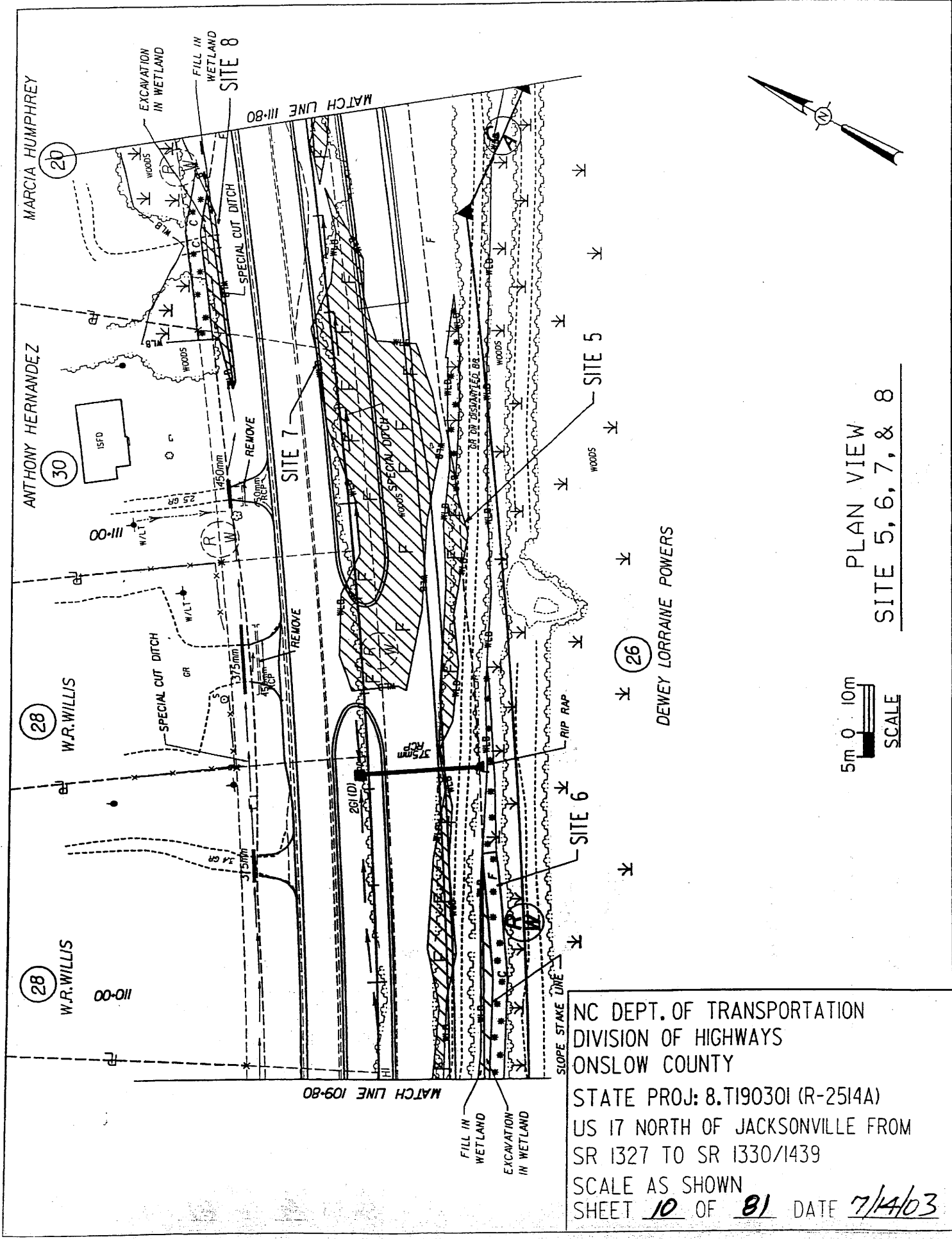
NC DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS
ONSLow COUNTY
STATE PROJ: 8.T190301 (R-2514A)
US 17 NORTH OF JACKSONVILLE FROM
SR 1327 TO SR 1330/1439
SCALE AS SHOWN
SHEET 8 OF 81 DATE 9/13/63



PROFILE VIEW
SITES 3, 4, 4A, 5 & 6



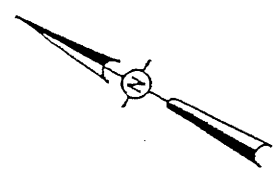
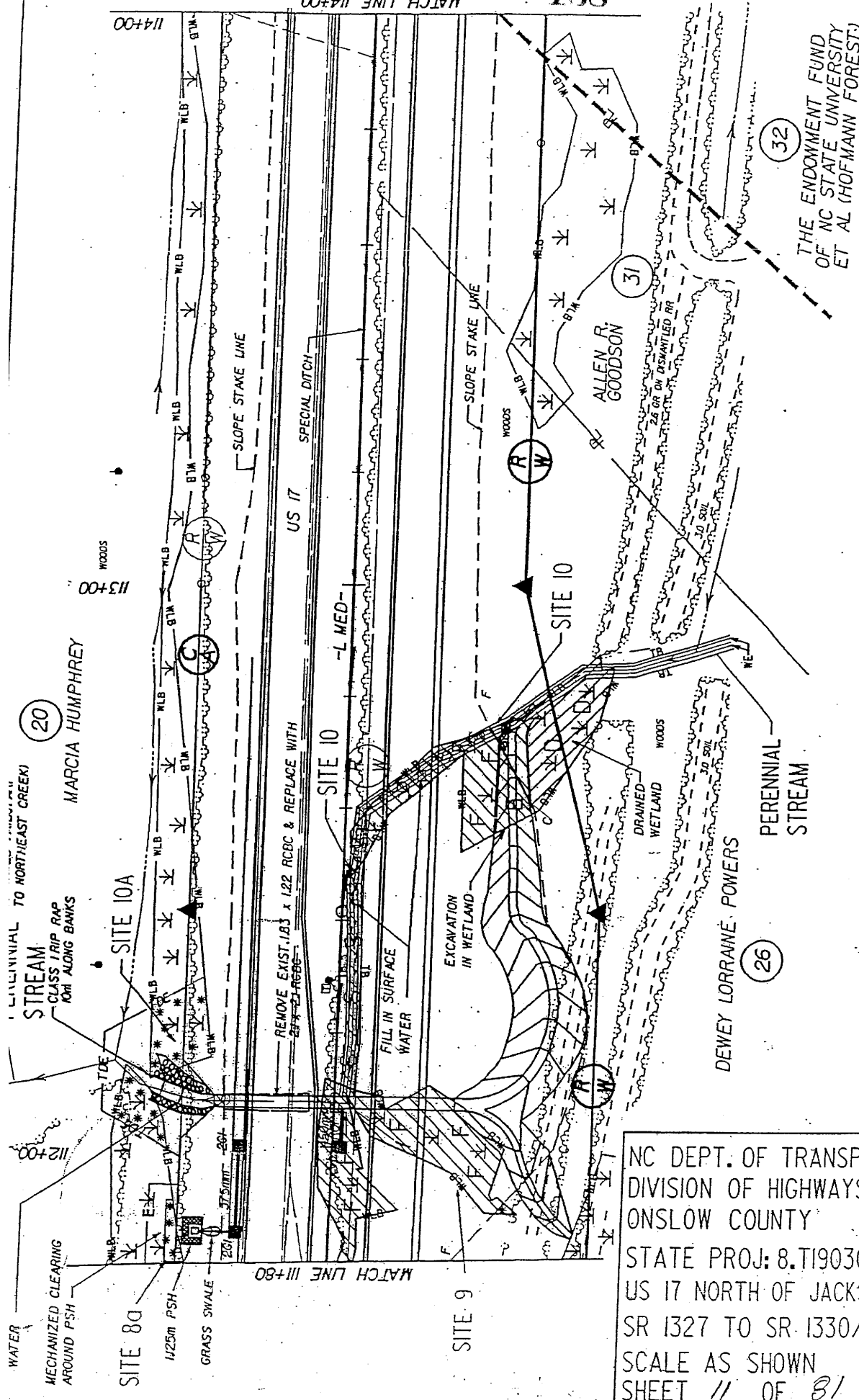
NC DEPT. OF TRANSPORTATION
 DIVISION OF HIGHWAYS
 ONSLOW COUNTY
 STATE PROJ: 8.TI9030I (R-25I4A)
 US 17 NORTH OF JACKSONVILLE FROM
 SR 1327 TO SR 1330/I439
 SCALE AS SHOWN
 SHEET 9 OF 81 DATE 7/14/03



PLAN VIEW
 SITE 5, 6, 7, & 8



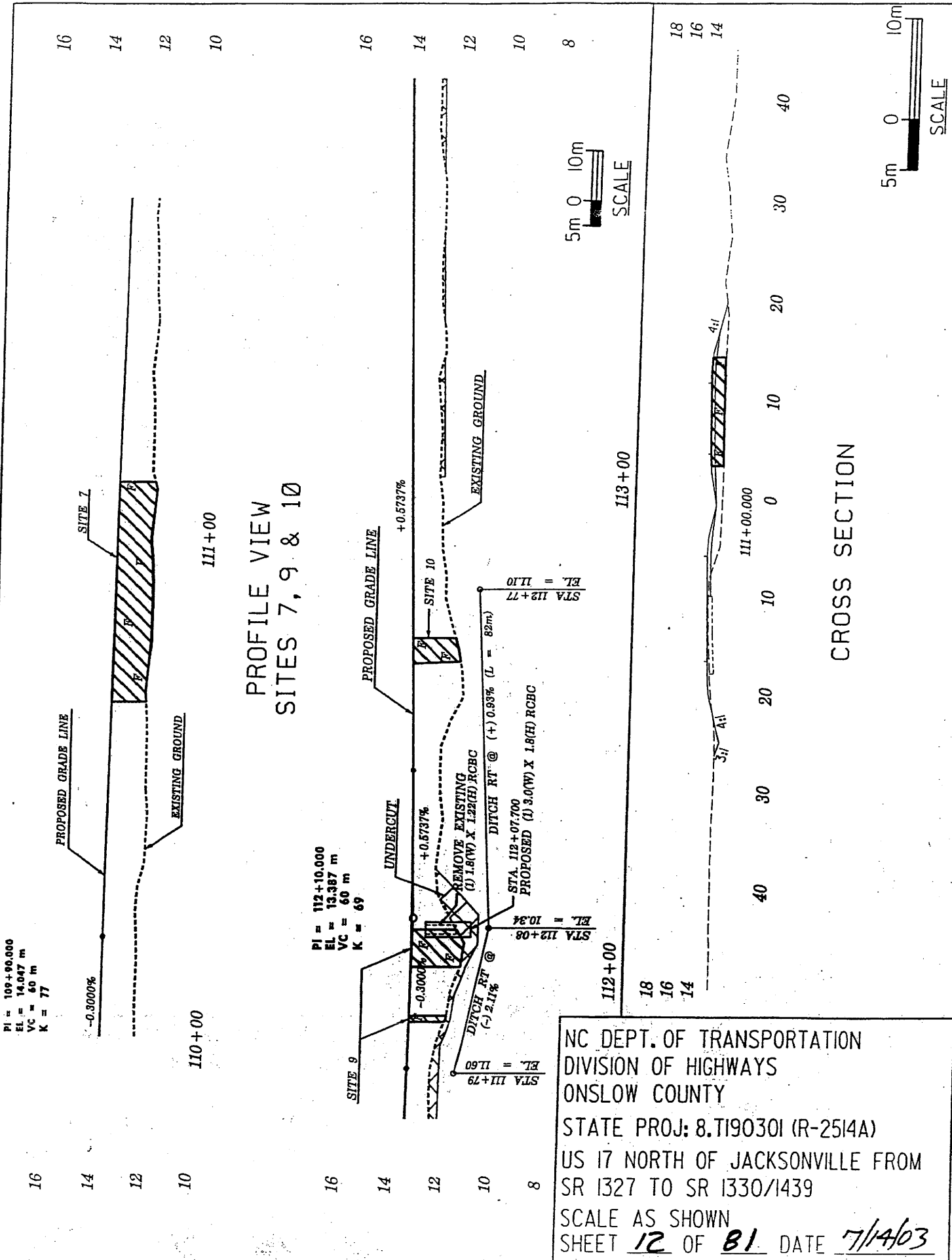
NC DEPT. OF TRANSPORTATION
 DIVISION OF HIGHWAYS
 ONSLOW COUNTY
 STATE PROJ: 8.T19030I (R-2514A)
 US 17 NORTH OF JACKSONVILLE FROM
 SR 1327 TO SR 1330/1439
 SCALE AS SHOWN
 SHEET 10 OF 81 DATE 7/14/03



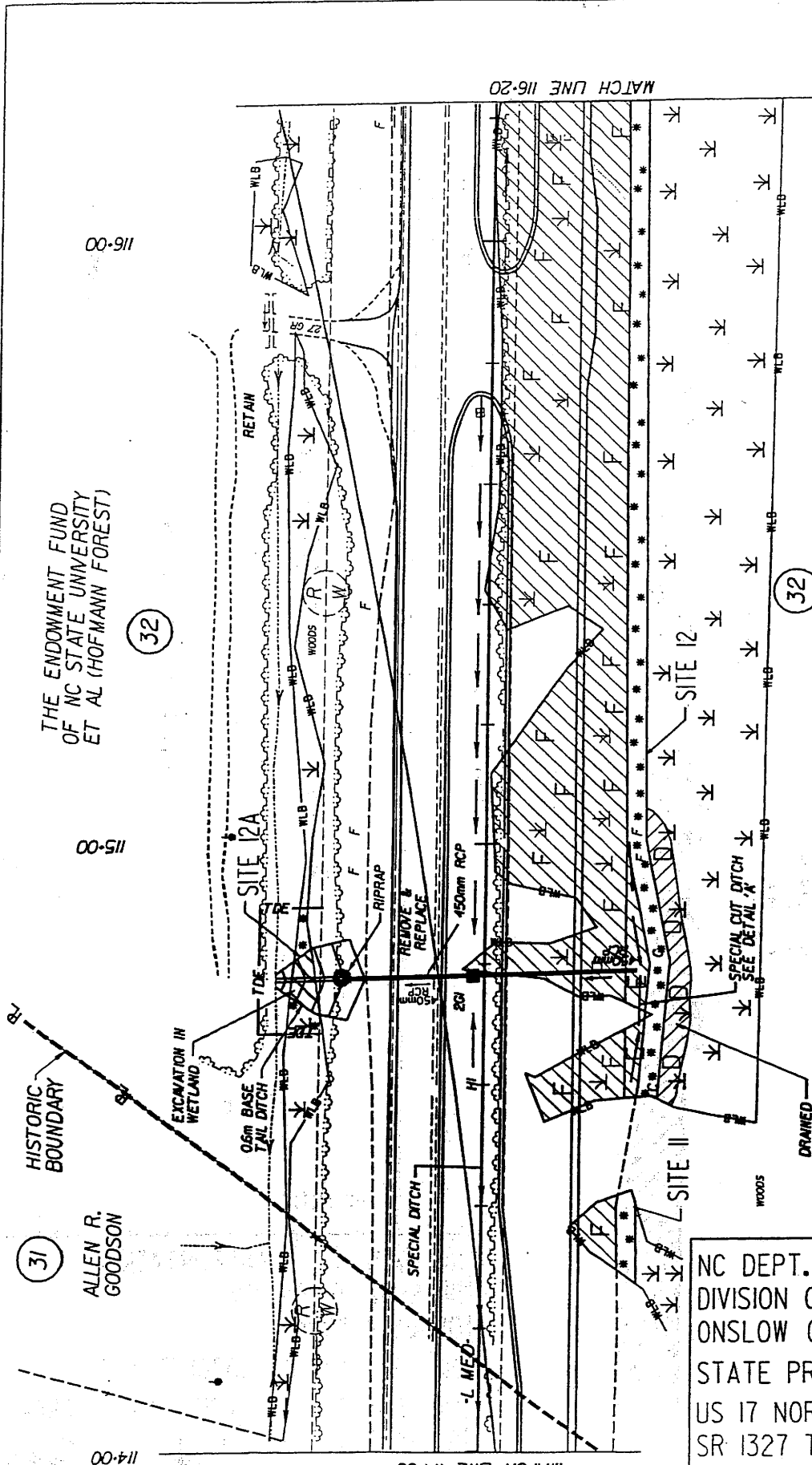
5m 0 10m
SCALE

PLAN VIEW
SITE 9, 10 & 10A

NC DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS
ONslow COUNTY
STATE PROJ: 8.T190301 (R-2514A)
US 17 NORTH OF JACKSONVILLE FROM
SR 1327 TO SR 1330/1439
SCALE AS SHOWN
SHEET 11 OF 81 DATE 4/12/04



NC DEPT. OF TRANSPORTATION
 DIVISION OF HIGHWAYS
 ONSLOW COUNTY
 STATE PROJ: 8.T190301 (R-2514A)
 US 17 NORTH OF JACKSONVILLE FROM
 SR 1327 TO SR 1330/1439
 SCALE AS SHOWN
 SHEET 12 OF 81 DATE 7/14/03



THE ENDOWMENT FUND
OF NC STATE UNIVERSITY
ET AL (HOFMANN FOREST)

00-911

32

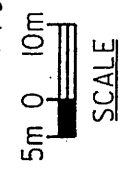
115-00

SITE 12A

SITE 12

32

THE ENDOWMENT FUND
OF NC STATE UNIVERSITY
ET AL (HOFMANN FOREST)



PLAN VIEW
SITE 11, 12, & 12A

| | |
|---|------------------|
| DRAINED WETLAND PER BOUSSINESQ EQUATION | |
| SITE 12 | 171.6 SQ. METERS |

NC DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS
ON SLOW COUNTY
STATE PROJ: 8.T190301 (R-2514A)
US 17 NORTH OF JACKSONVILLE FROM
SR 1327 TO SR 1330/1439

SCALE AS SHOWN
SHEET 13 OF 81 DATE 9/3/03

HISTORIC
BOUNDARY

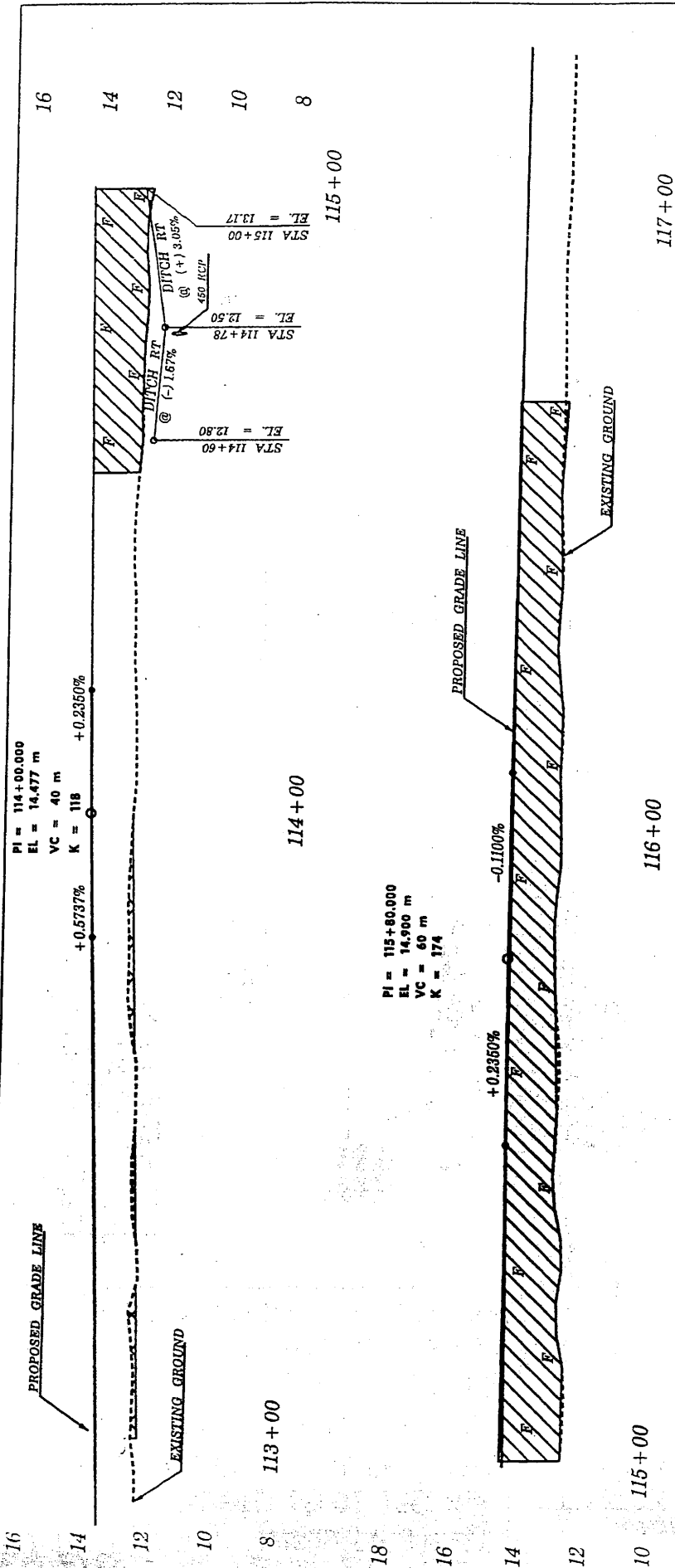
31

ALLEN R.
GOODSON

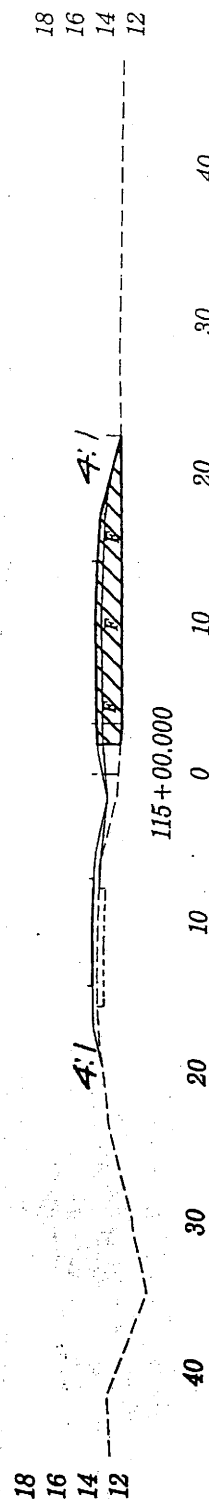
114-00

MATCH LINE 114-00

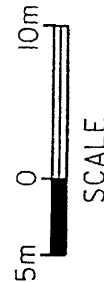
MATCH LINE 116-20



PROFILE VIEW
SITE 12



CROSS SECTION



NC DEPT. OF TRANSPORTATION
 DIVISION OF HIGHWAYS
 ONSLOW COUNTY
 STATE PROJ: 8.T190301 (R-2514A)
 US 17 NORTH OF JACKSONVILLE FROM
 SR 1327 TO SR 1330/1439
 SCALE AS SHOWN
 SHEET 14 OF 81

REV 8/19/03
 DATE 7/14/03

117-00

THE ENDOWMENT FUND OF NC STATE UNIVERSITY ET AL (HOFMANN FOREST)

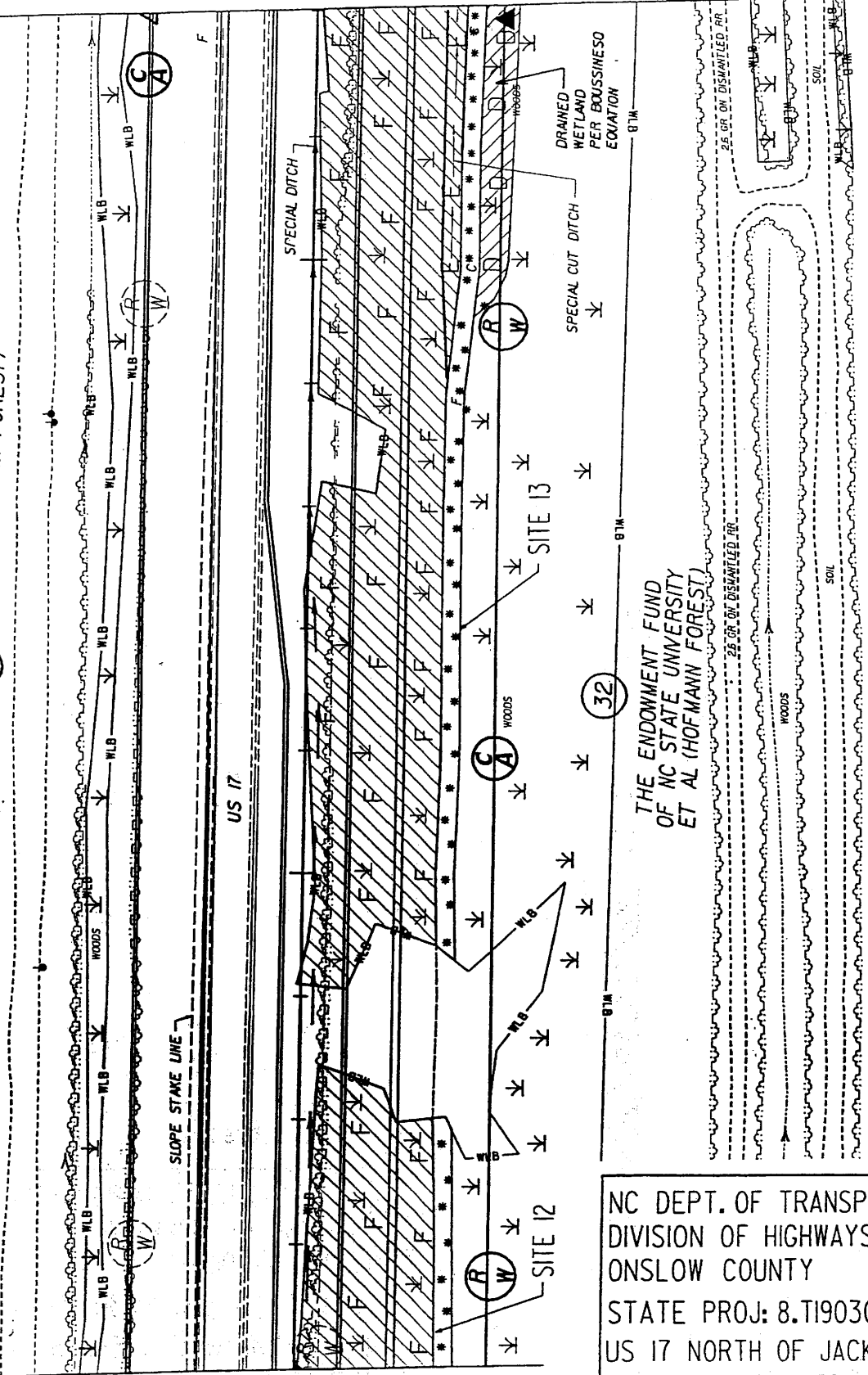
32

00-811

MATCH LINE 116-20

US 17

MATCH LINE 118-40

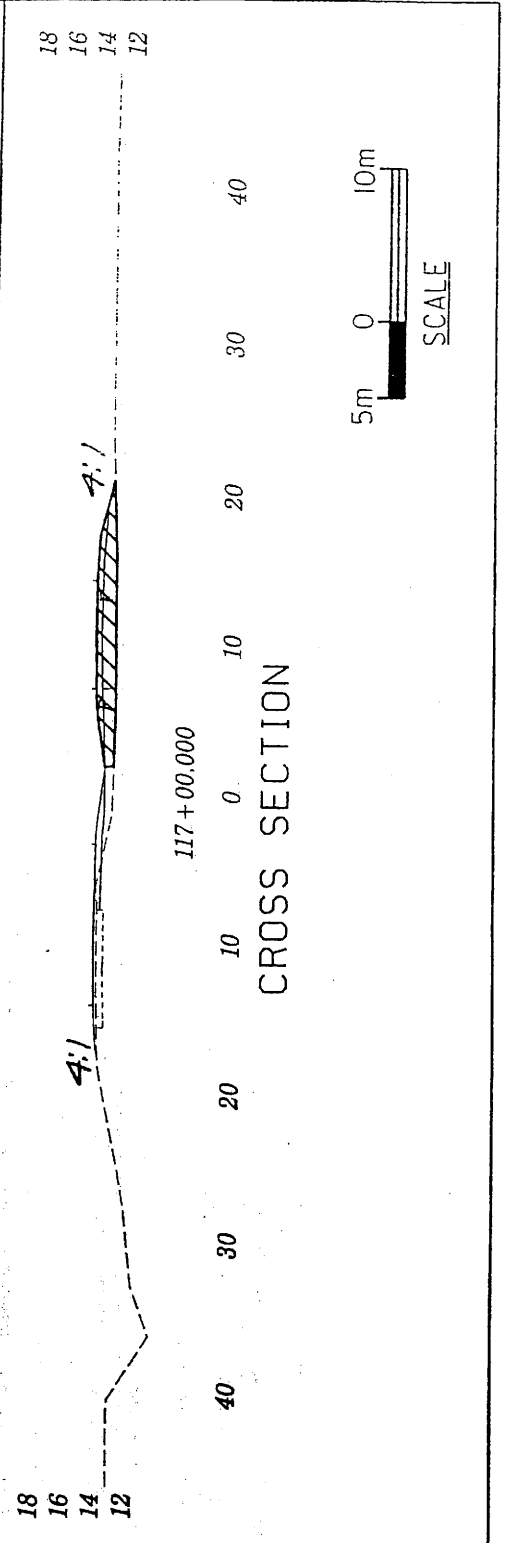
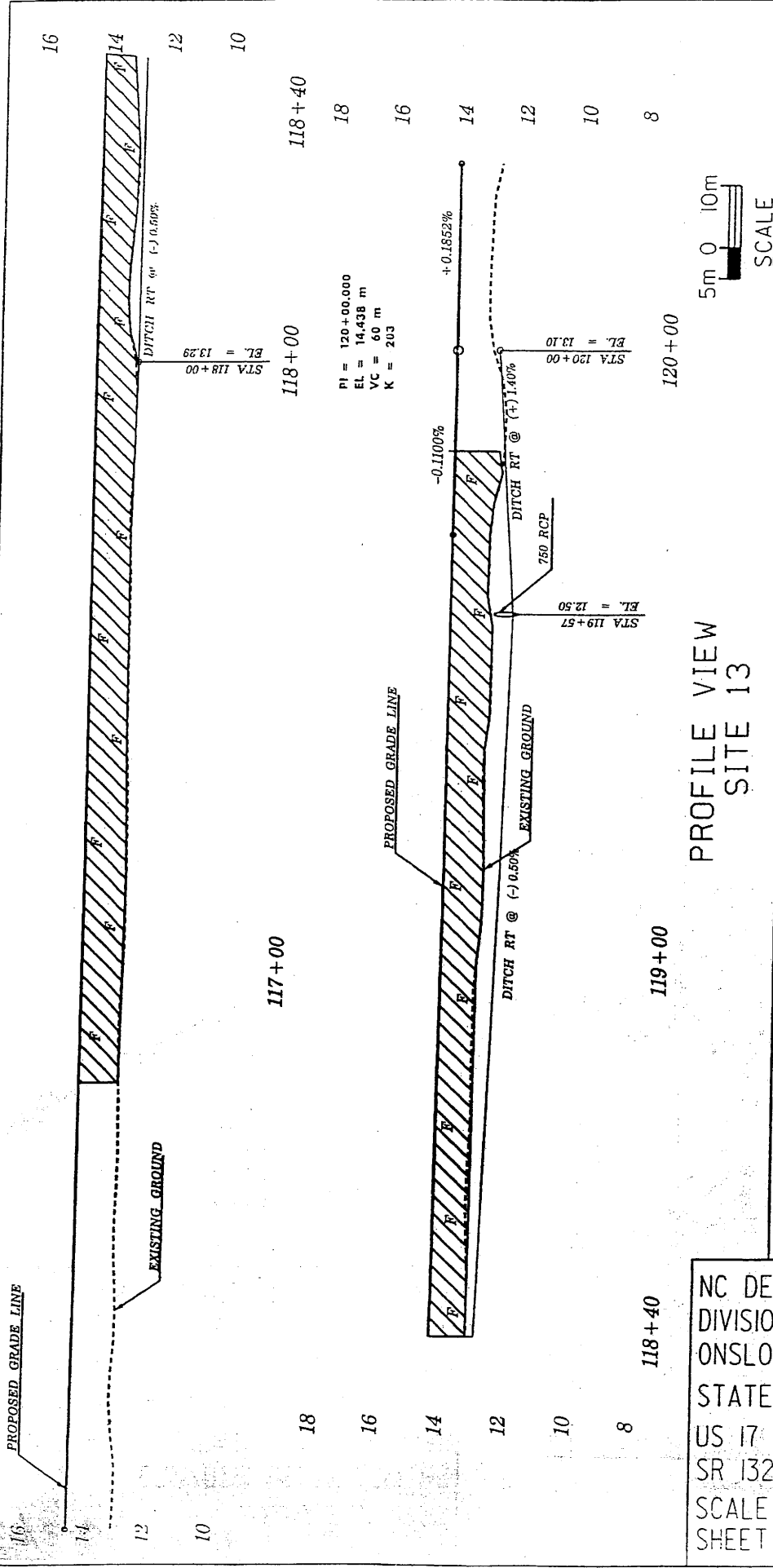


NC DEPT. OF TRANSPORTATION
 DIVISION OF HIGHWAYS
 ONSLOW COUNTY
 STATE PROJ: 8.T190301 (R-2514A)
 US 17 NORTH OF JACKSONVILLE FROM
 SR 1327 TO SR 1330/1439
 SCALE AS SHOWN
 SHEET 15 OF 81 DATE 9/3/03

PLAN VIEW
 SITE 12 & 13



| |
|---|
| DRAINED WETLAND PER BOUSSINESQ EQUATION |
| SITE 13 884.7 SQ. METERS |



NC DEPT. OF TRANSPORTATION
 DIVISION OF HIGHWAYS
 ONSLOW COUNTY

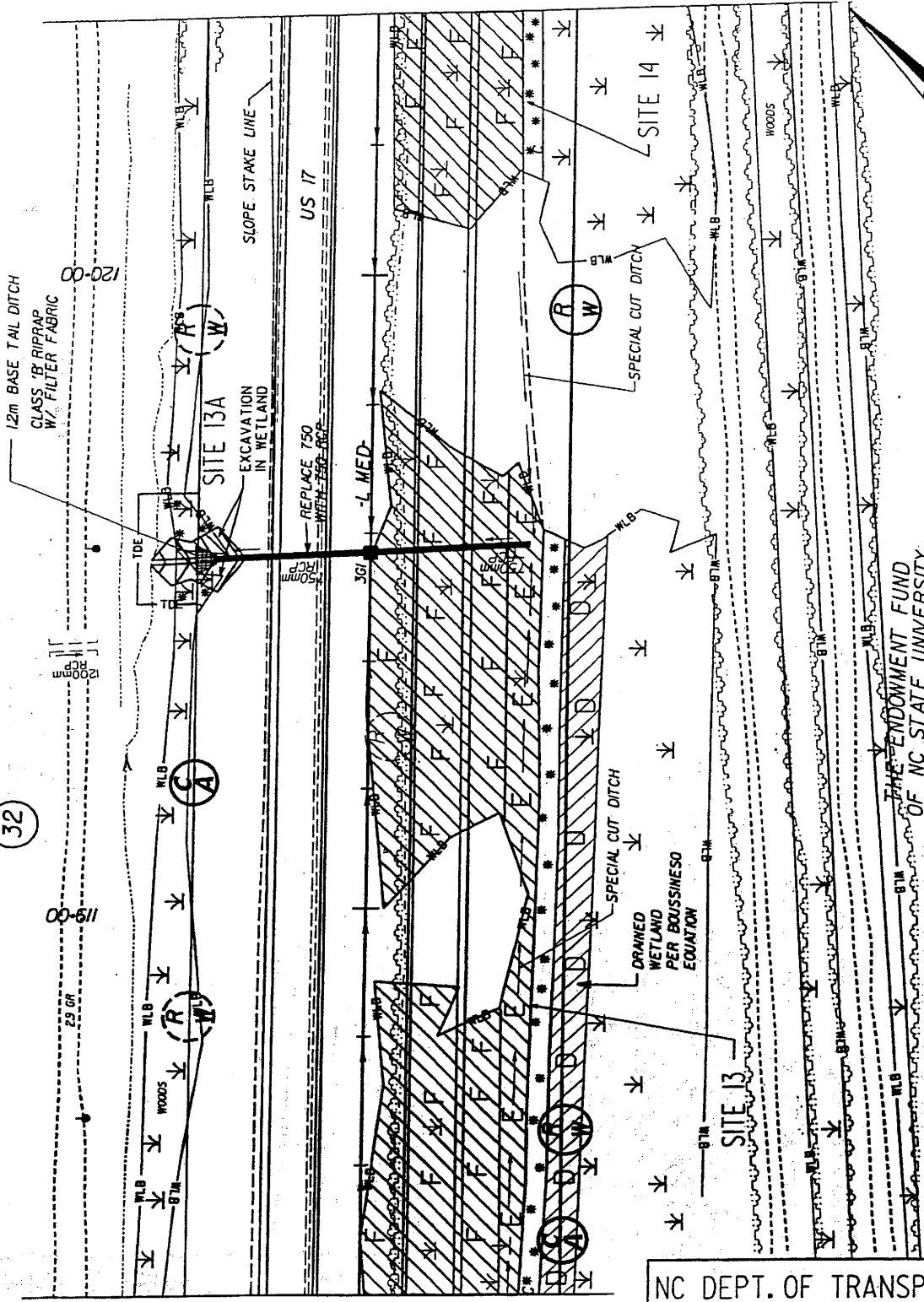
STATE PROJ: 8.T190301 (R-2514A)
 US 17 NORTH OF JACKSONVILLE FROM
 SR 1327 TO SR 1330/1439

SCALE AS SHOWN
 SHEET 16 OF 81

REV 8/19/03
 DATE 7/14/03

THE ENDOWMENT FUND
OF NC STATE UNIVERSITY
ET AL (HOFMANN FOREST)

32



THE ENDOWMENT FUND
OF NC STATE UNIVERSITY
ET AL (HOFMANN FOREST)

32

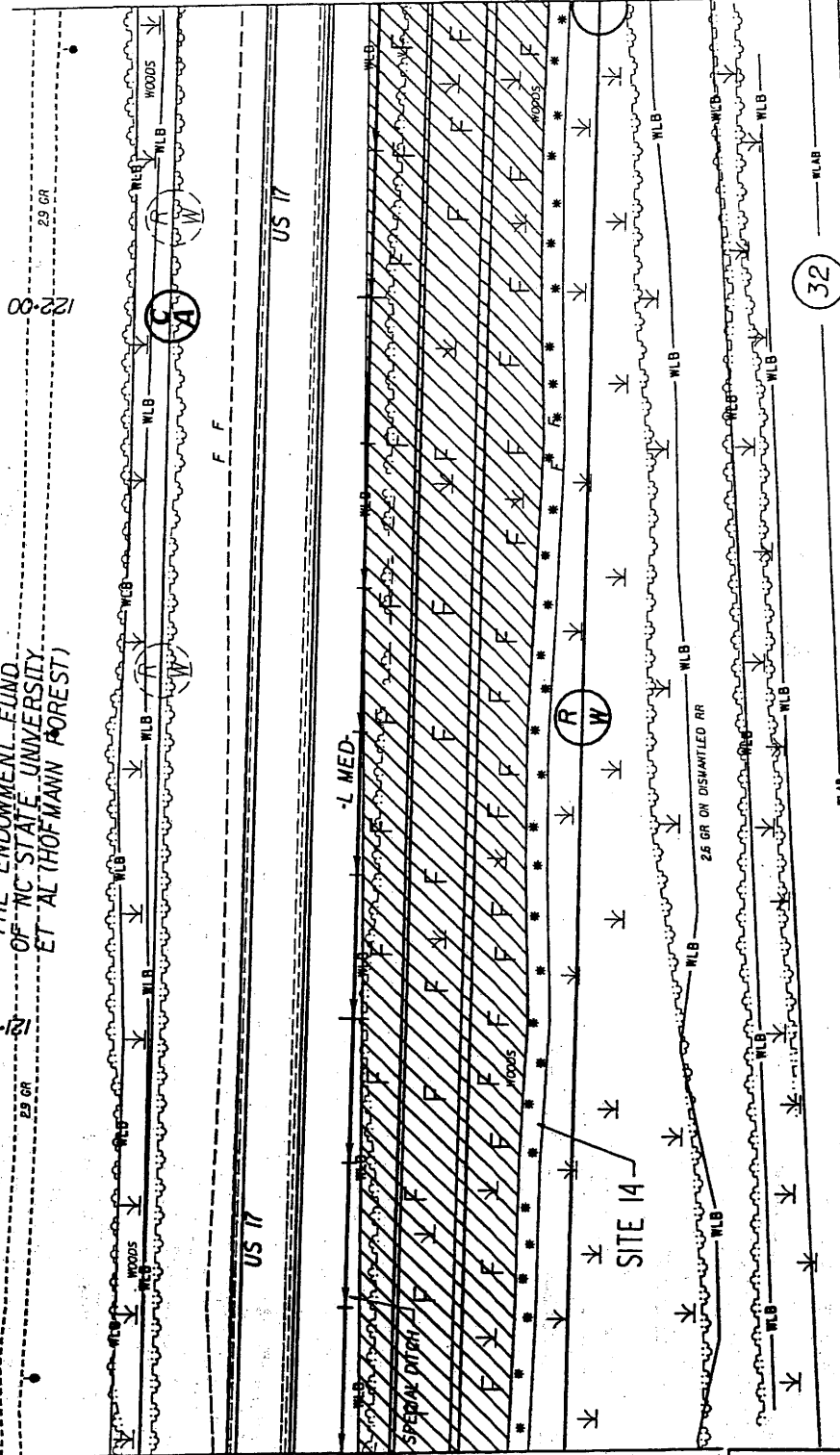
PLAN VIEW
SITE 13, 13A & 14

| |
|---|
| DRAINED WETLAND PER BOUSSINESQ EQUATION |
| SITE 13 884.7 SQ. METERS |



NC DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS
ONSLow COUNTY
STATE PROJ: 8.T19030I (R-2514A)
US 17 NORTH OF JACKSONVILLE FROM
SR 1327 TO SR 1330/1439
SCALE AS SHOWN
SHEET 17 OF 81 DATE 9/3/63

MATCH LINE 122-40



MATCH LINE 120-40

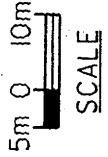
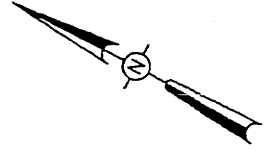
32

THE ENDOWMENT FUND OF NC STATE UNIVERSITY ET AL (HOFMANN FOREST)

121-00

122-00

THE ENDOWMENT FUND OF NC STATE UNIVERSITY ET AL (HOFMANN FOREST)

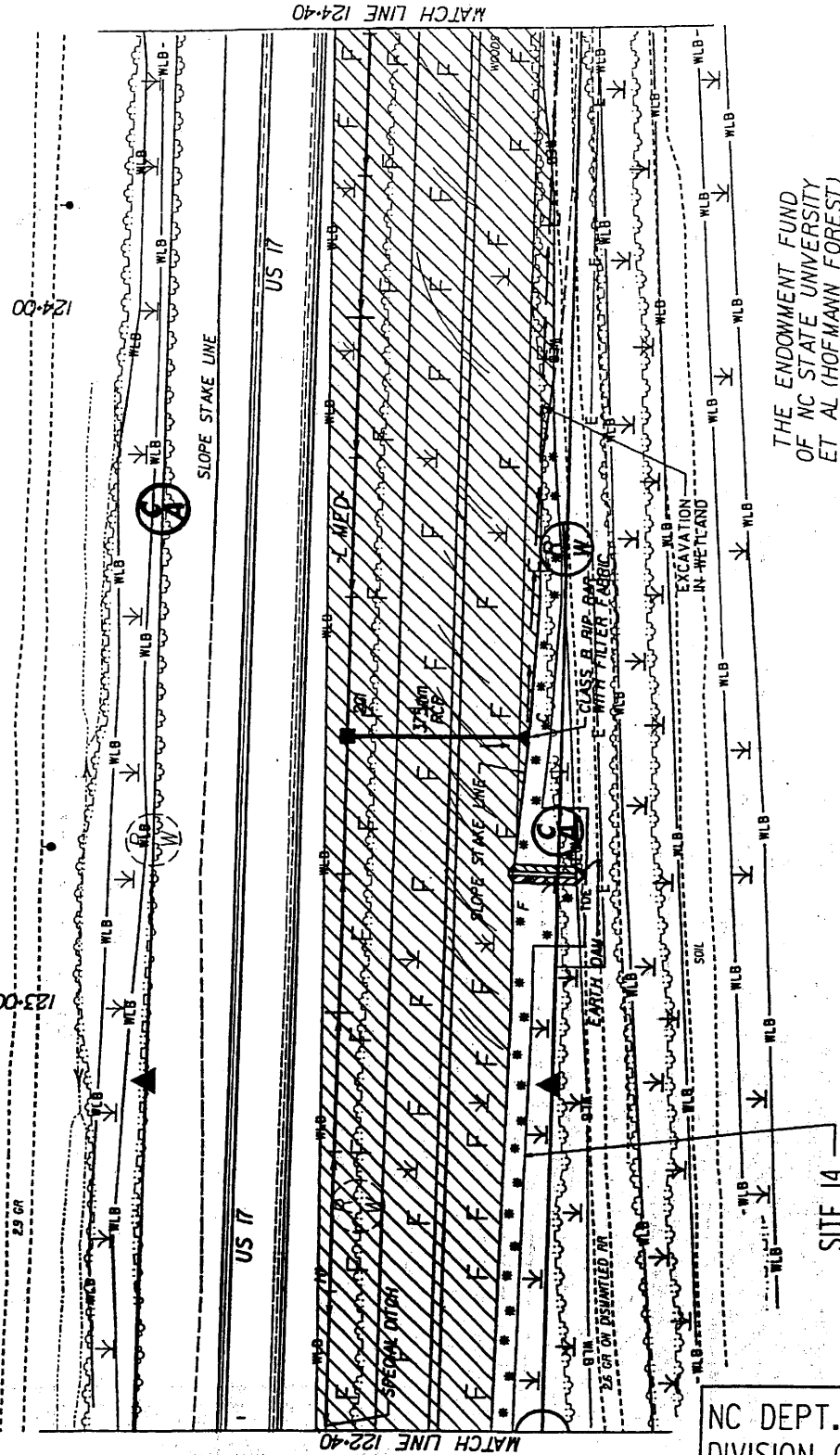


PLAN VIEW SITE 14

NC DEPT. OF TRANSPORTATION
 DIVISION OF HIGHWAYS
 ONSLOW COUNTY
 STATE PROJ: 8.T19030I (R-2514A)
 US 17 NORTH OF JACKSONVILLE FROM
 SR 1327 TO SR 1330/1439
 SCALE AS SHOWN
 SHEET 18 OF 81 DATE 7/14/03

THE ENDOWMENT FUND
OF NC STATE UNIVERSITY
ET AL (HOFMANN FOREST)

32



32

THE ENDOWMENT FUND
OF NC STATE UNIVERSITY
ET AL (HOFMANN FOREST)

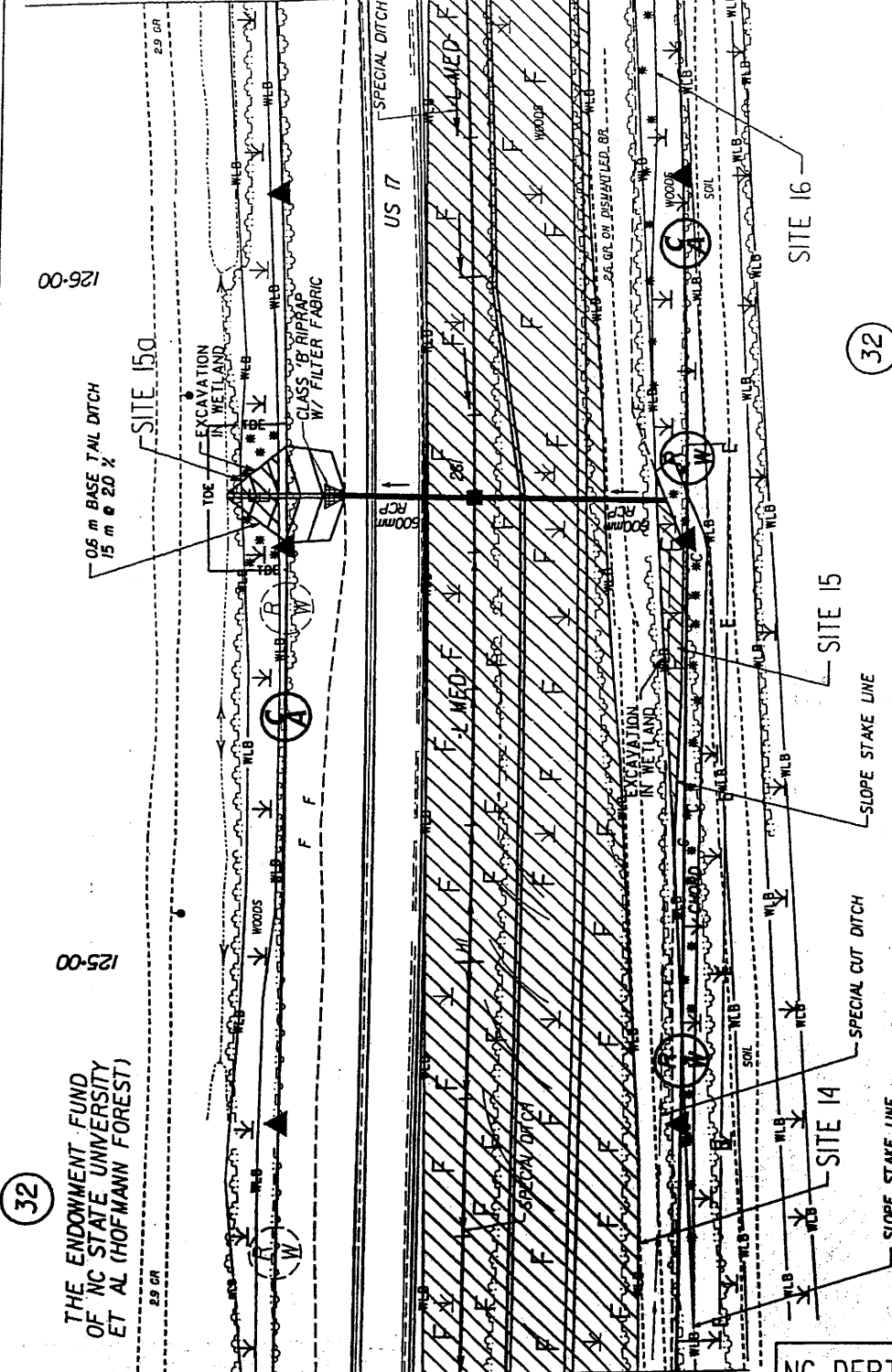


PLAN VIEW
SITE 14

NC DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS
ONSLOW COUNTY
STATE PROJ: 8.T19030I (R-2514A)
US 17 NORTH OF JACKSONVILLE FROM
SR 1327 TO SR 1330/1439
SCALE AS SHOWN
SHEET 19 OF 81 DATE 7/14/03

MATCH LINE 126-40

MATCH LINE 124-40



32

THE ENDOWMENT FUND OF NC STATE UNIVERSITY ET AL (HOFMANN FOREST)

125-00

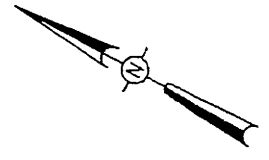
126-00

SITE 15A

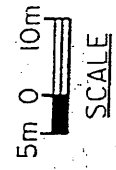
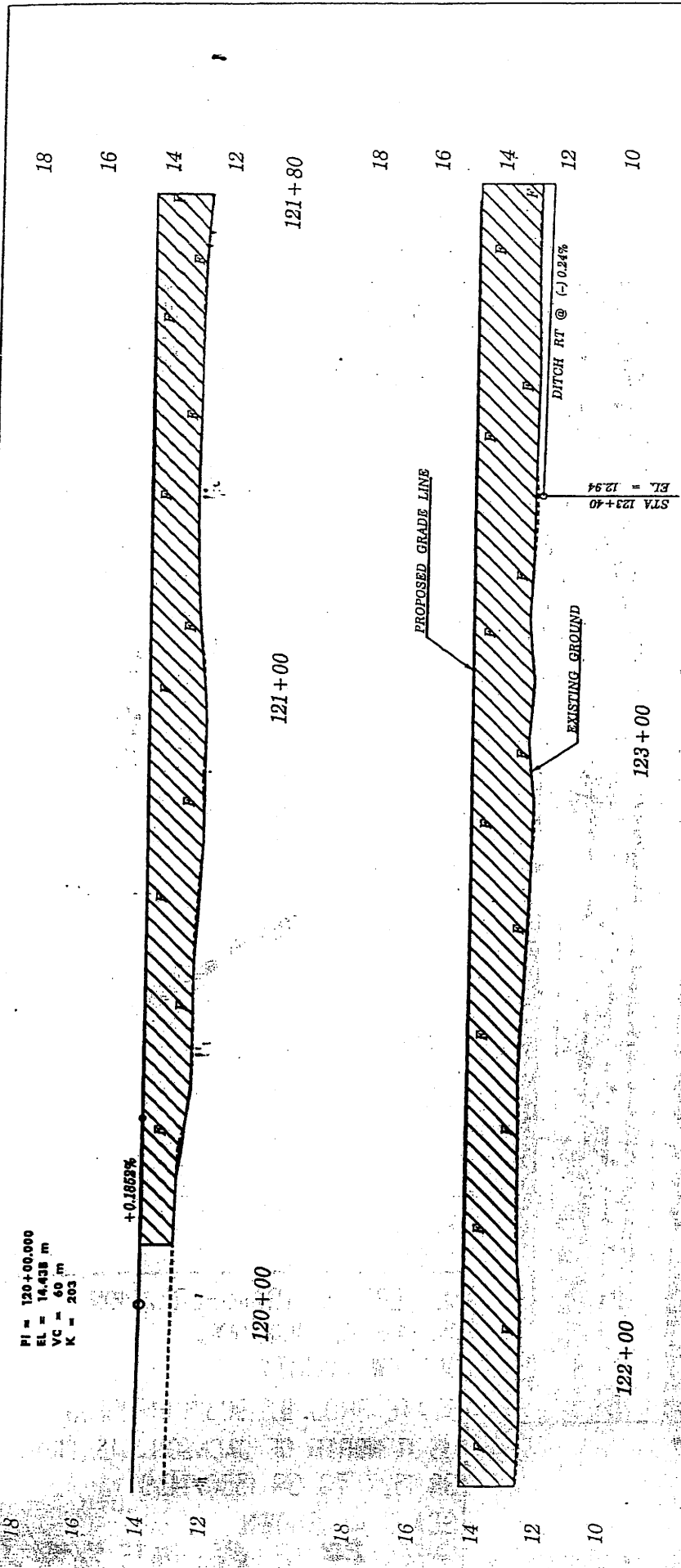
32

THE ENDOWMENT FUND OF NC STATE UNIVERSITY ET AL (HOFMANN FOREST)

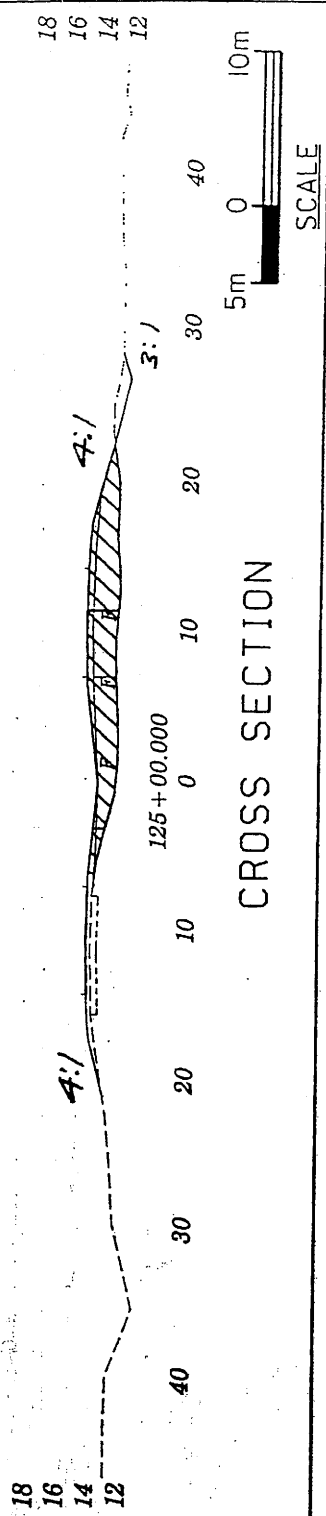
PLAN VIEW
SITE 14, 15, 15A & 16



NC DEPT. OF TRANSPORTATION
 DIVISION OF HIGHWAYS
 ONSLOW COUNTY
 STATE PROJ: 8.T190301 (R-2514A)
 US 17 NORTH OF JACKSONVILLE FROM
 SR 1327 TO SR 1330/1439
 SCALE AS SHOWN
 SHEET 20 OF 81 DATE 7/14/03



PROFILE VIEW
SITE 14



CROSS SECTION

NC DEPT. OF TRANSPORTATION
 DIVISION OF HIGHWAYS
 ONSLOW COUNTY
 STATE PROJ: 8.T190301 (R-2514A)
 US 17 NORTH OF JACKSONVILLE FROM
 SR 1327 TO SR 1330/1439
 SCALE AS SHOWN
 SHEET 21 OF 81 DATE 7/14/03

REV 8/19/03

MATCH LINE 128+40

US 17

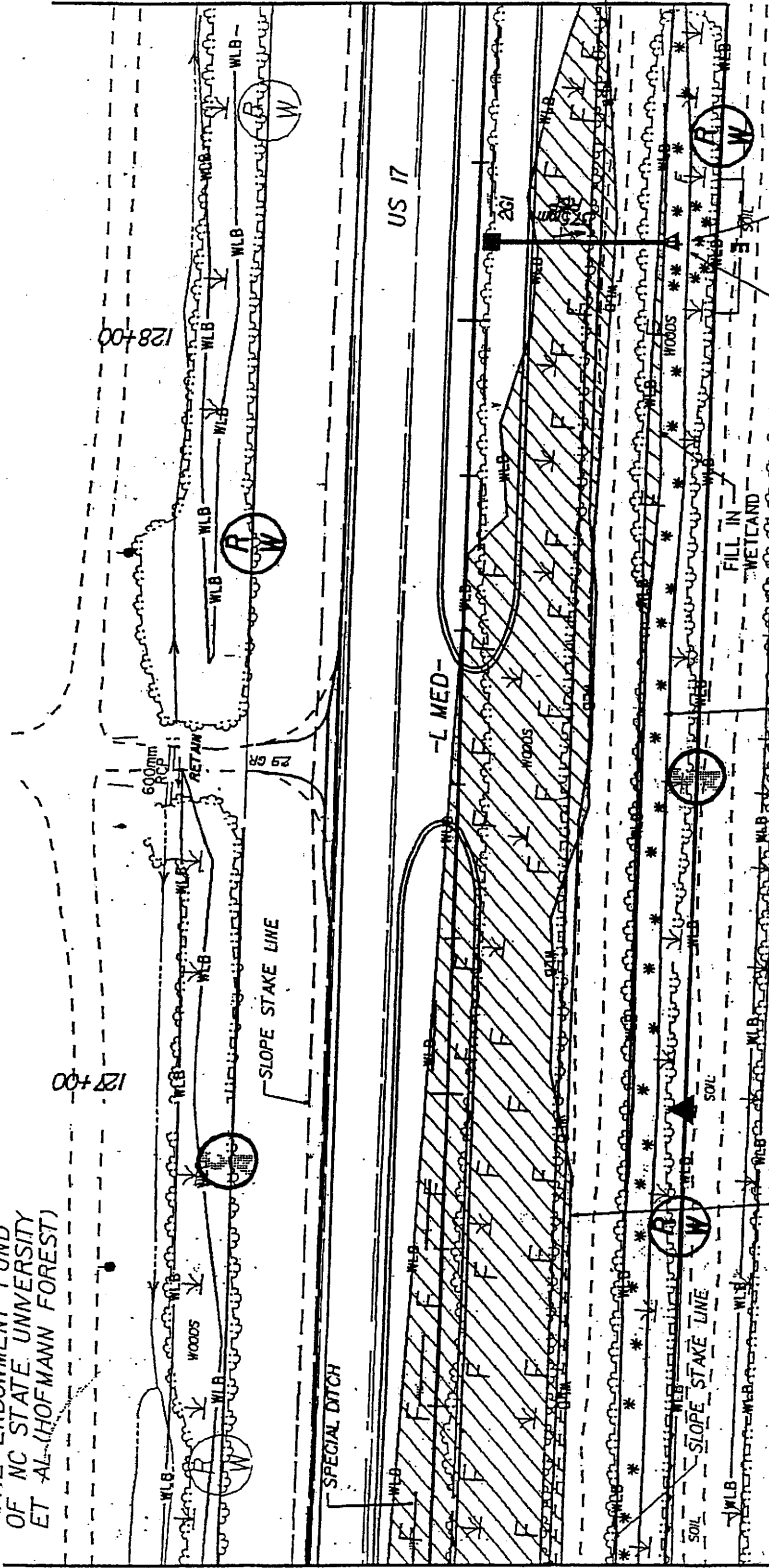
128+00

127+00

MATCH LINE 126+40

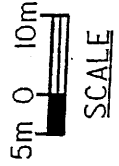
THE ENDOWMENT FUND OF NC STATE UNIVERSITY ET AL (HOFMANN FOREST)

(32)

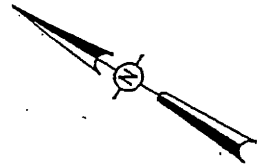


THE ENDOWMENT FUND OF NC STATE UNIVERSITY ET AL (HOFMANN FOREST)

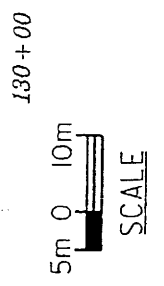
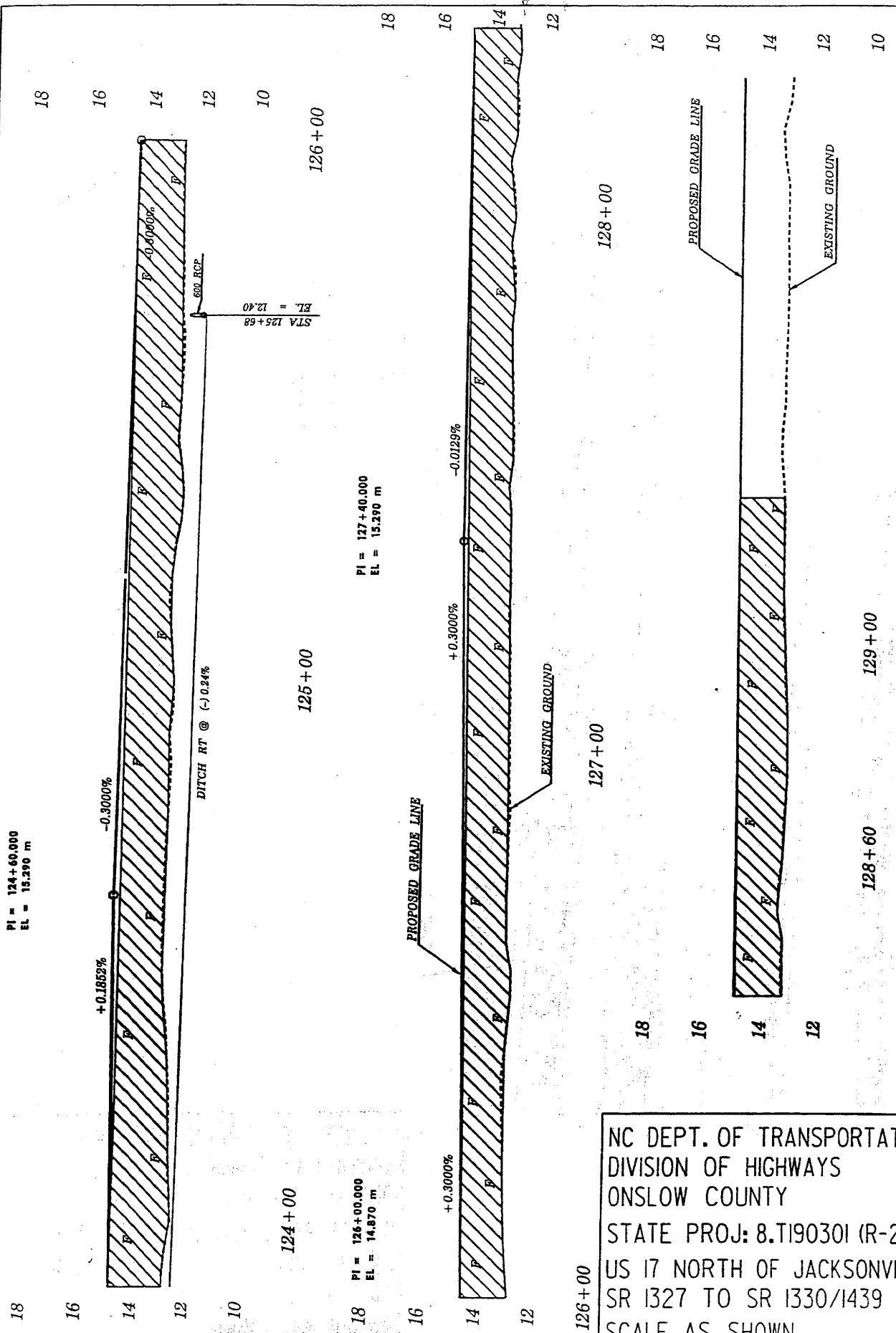
(32)



PLAN VIEW
SITE 14 & 16



NC DEPT. OF TRANSPORTATION
 DIVISION OF HIGHWAYS
 ONSLOW COUNTY
 STATE PROJ: 8.T190301 (R-2514A)
 US 17 NORTH OF JACKSONVILLE FROM
 SR 1327 TO SR 1330/1439
 SCALE AS SHOWN
 SHEET 22 OF 81 DATE 04/01/04



PROFILE VIEW
SITE 14

NC DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS
ONSLow COUNTY
STATE PROJ: 8.T19030I (R-2514A)
US 17 NORTH OF JACKSONVILLE FROM
SR 1327 TO SR 1330/1439
SCALE AS SHOWN
SHEET 23 OF 81 DATE 7/14/03

THE ENDOWMENT FUND
OF NC STATE UNIVERSITY
ET AL (HOFMANN FOREST)

32

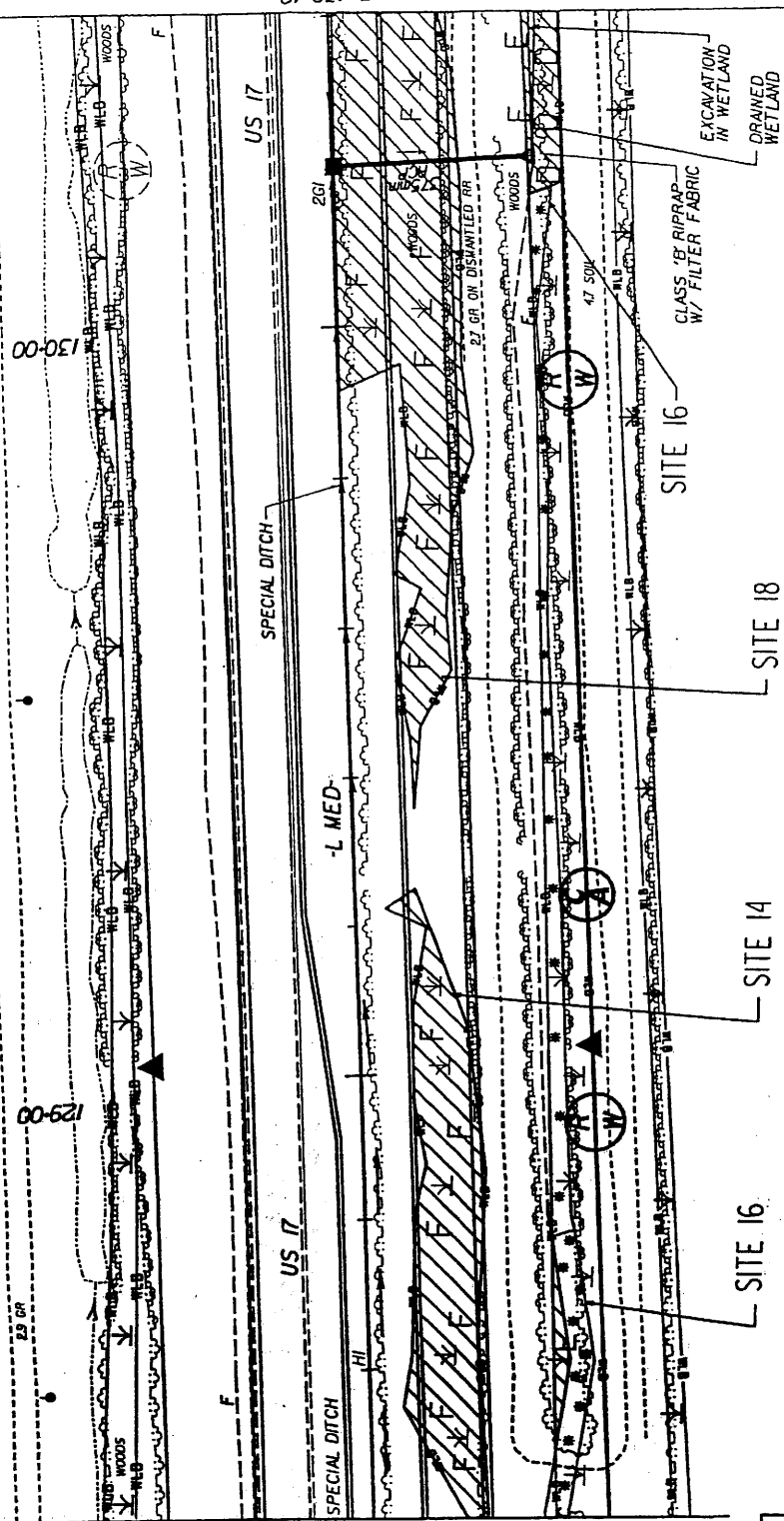
00-92-1

130-00

MATCH LINE 128-40

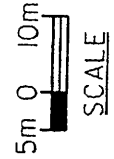
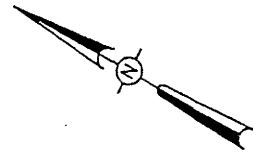
MATCH LINE 130-40

151



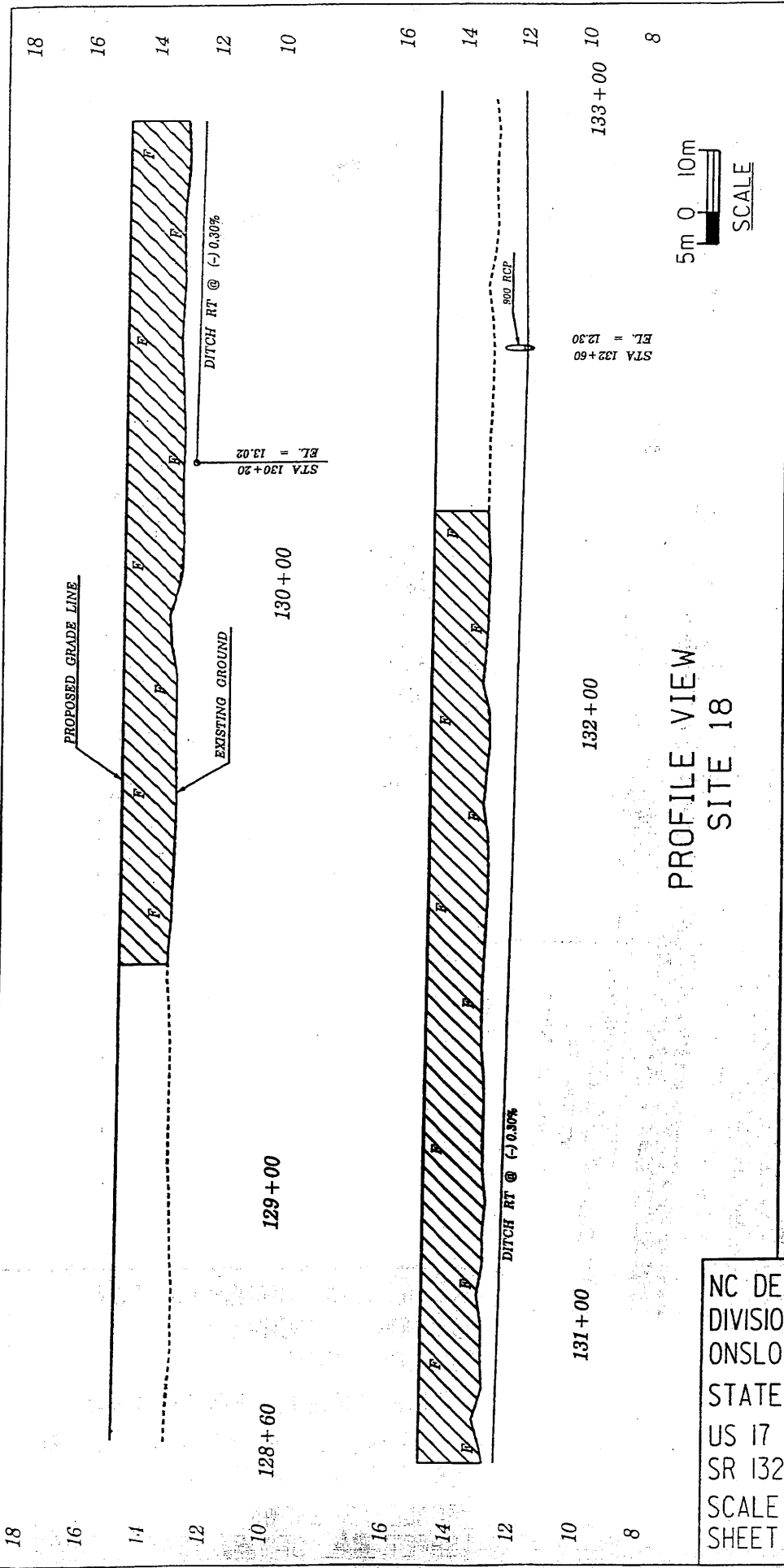
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THE ENDOWMENT FUND
OF NC STATE UNIVERSITY
ET AL (HOFMANN FOREST)

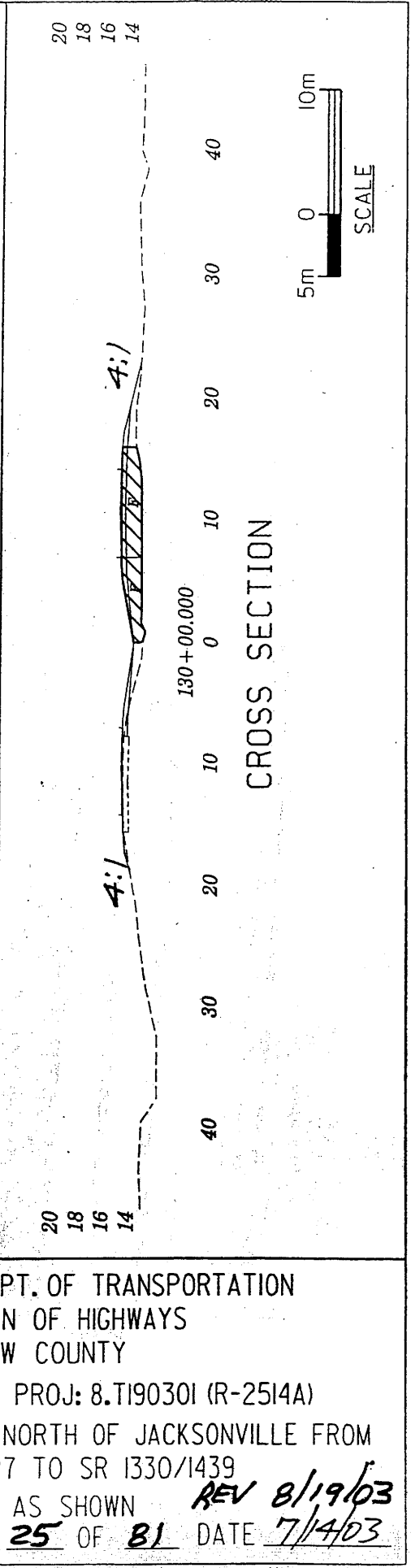


PLAN VIEW
SITE 14, 16, & 18

NC DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS
ONSLOW COUNTY
STATE PROJ: 8.T190301 (R-2514A)
US 17 NORTH OF JACKSONVILLE FROM
SR 1327 TO SR 1330/1439
SCALE AS SHOWN
SHEET 24 OF 81 DATE 7/14/03



PROFILE VIEW
SITE 18

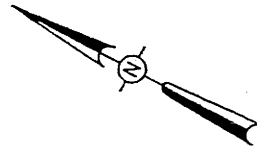
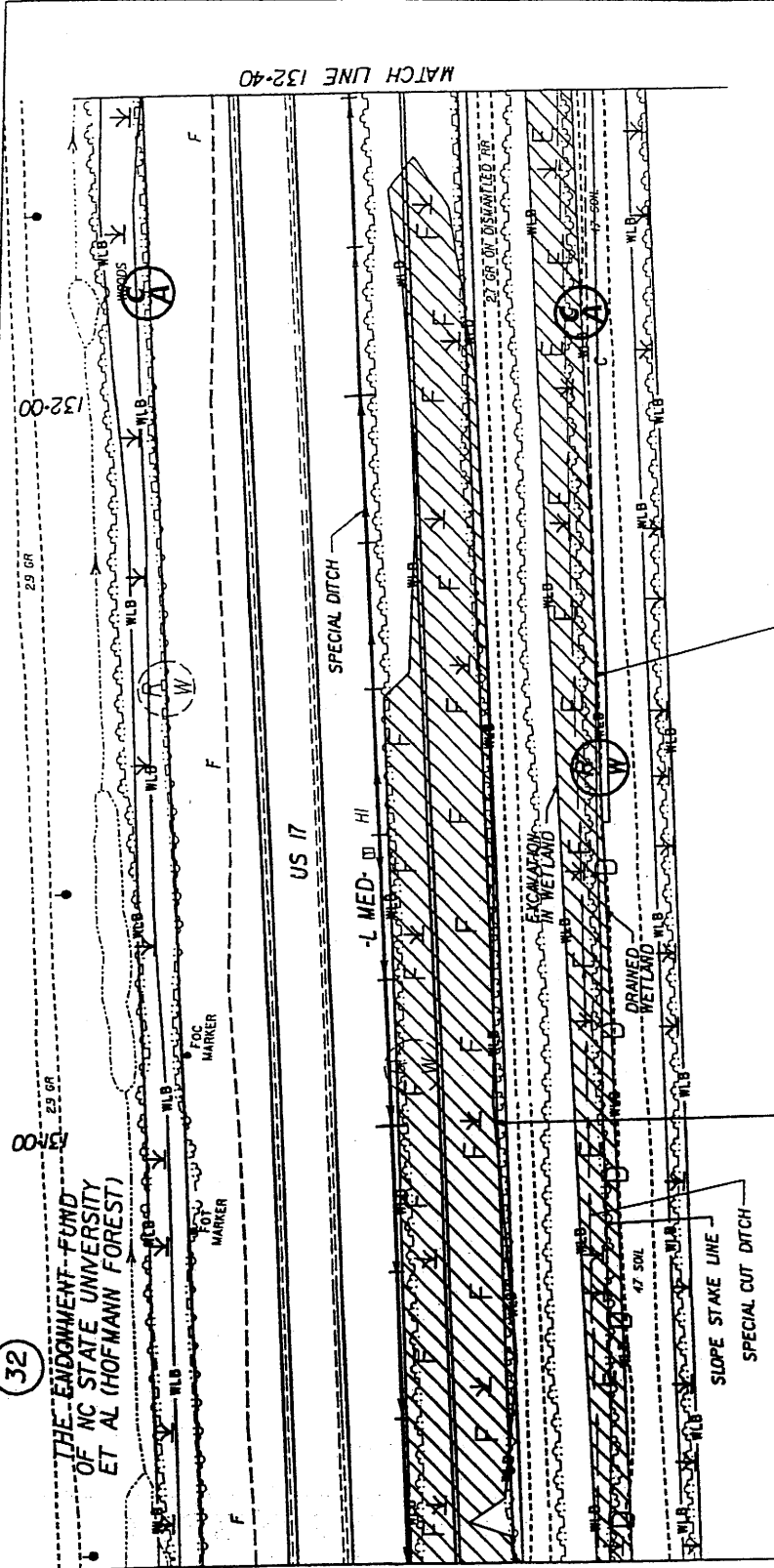


NC DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS
ONSLow COUNTY

STATE PROJ: 8.T19030I (R-2514A)
US 17 NORTH OF JACKSONVILLE FROM
SR 1327 TO SR 1330/1439

SCALE AS SHOWN
SHEET 25 OF 81 DATE 7/14/03

REV 8/19/03



PLAN VIEW
SITE 16 & 18

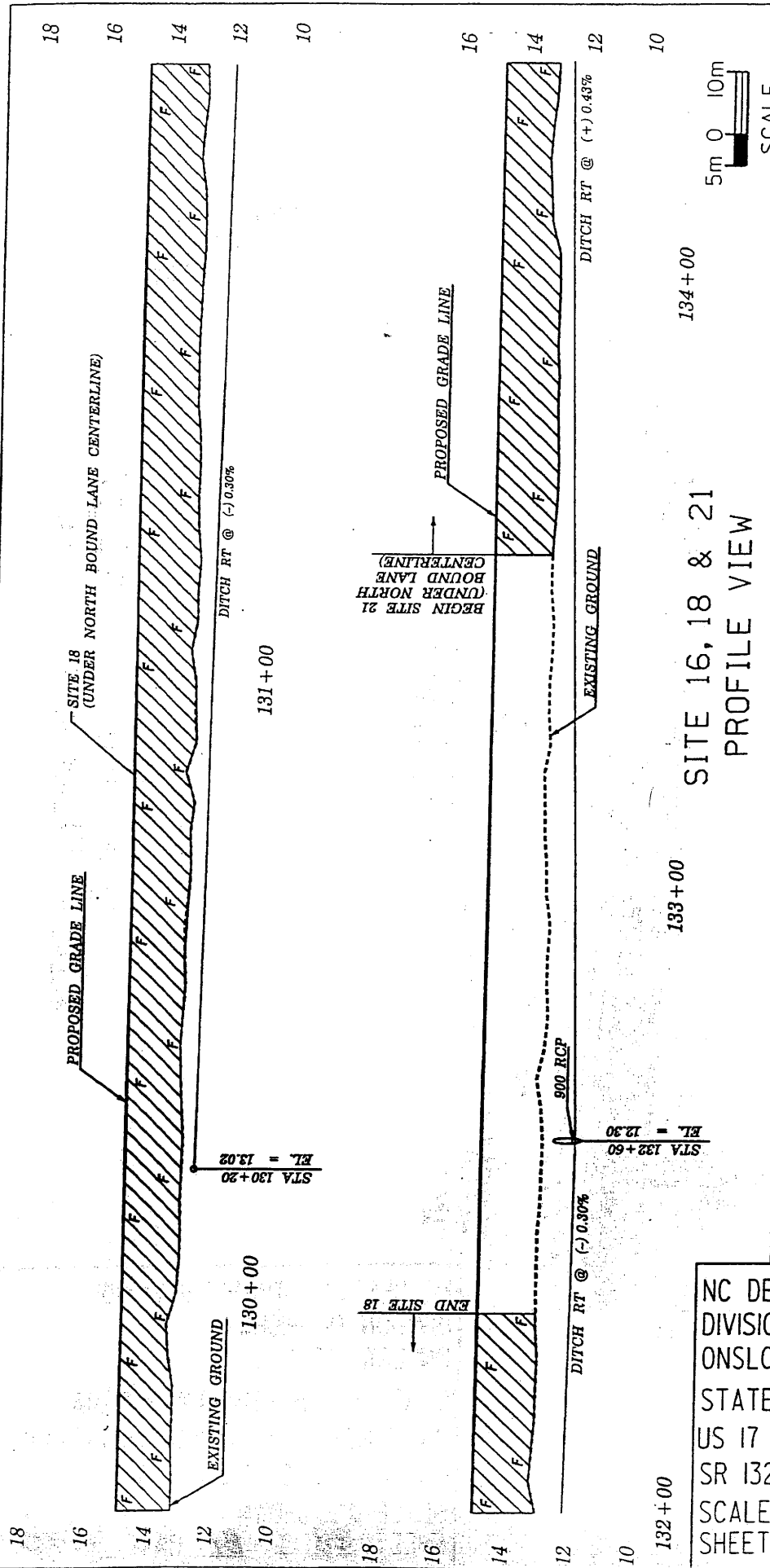
32

THE ENDOWMENT FUND
OF NC STATE UNIVERSITY
ET AL (HOFMANN FOREST)

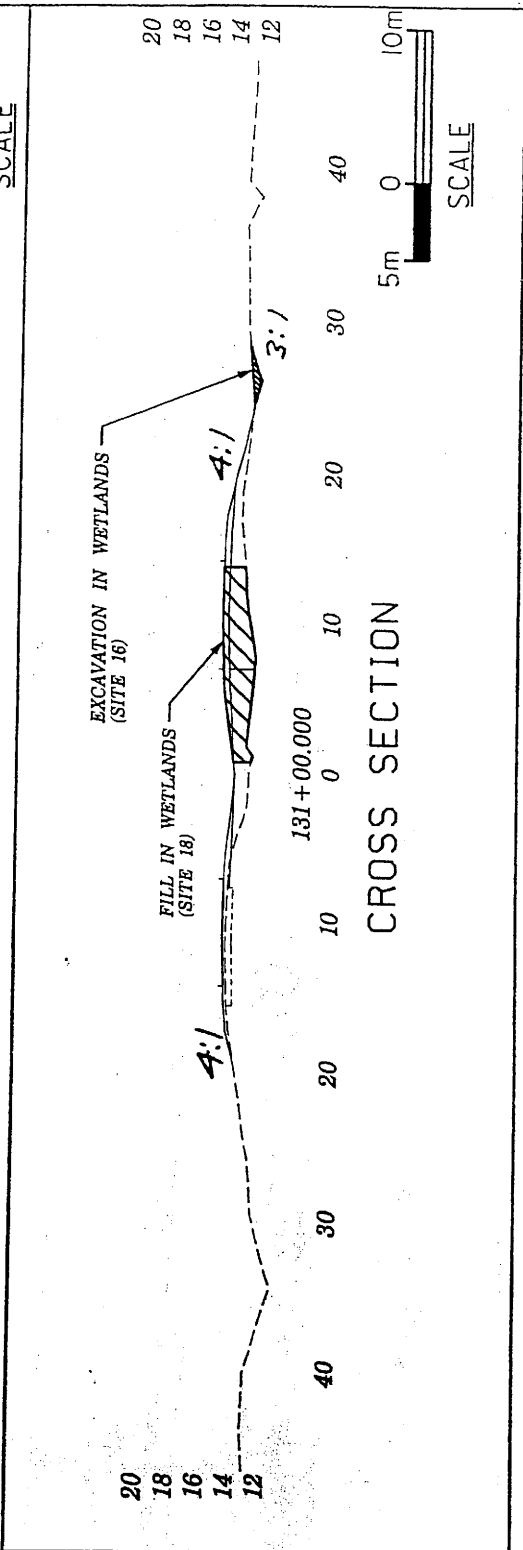
SITE 18

SITE 16

NC DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS
ONSLow COUNTY
STATE PROJ: 8.TI9030I (R-2514A)
US 17 NORTH OF JACKSONVILLE FROM
SR 1327 TO SR 1330/1439
SCALE AS SHOWN
SHEET 26 OF 81 DATE 7/14/03



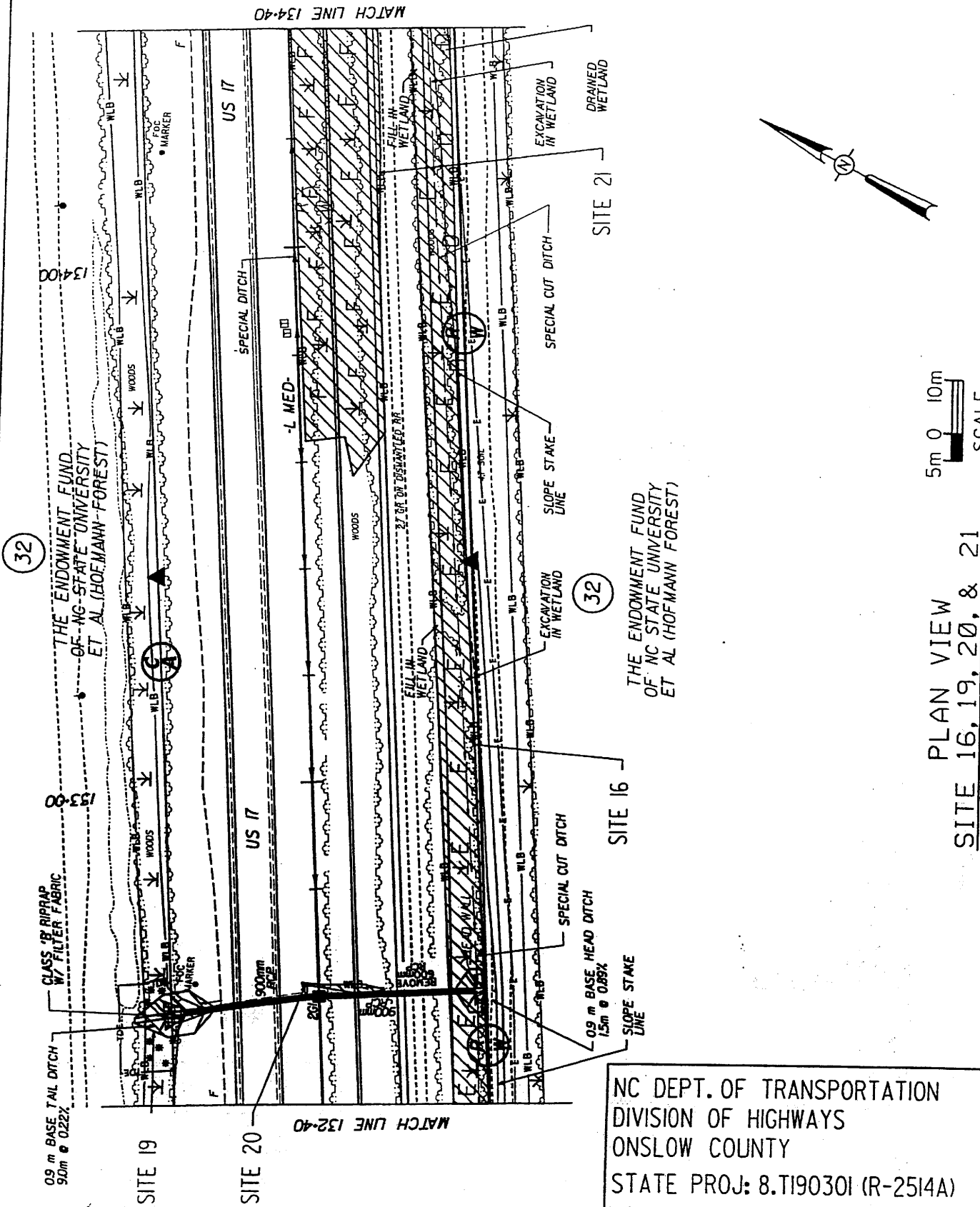
SITE 16, 18 & 21
PROFILE VIEW



CROSS SECTION

NC DEPT. OF TRANSPORTATION
 DIVISION OF HIGHWAYS
 ONSLOW COUNTY
 STATE PROJ: 8.T19030I (R-2514A)
 US 17 NORTH OF JACKSONVILLE FROM
 SR 1327 TO SR 1330/1439
 SCALE AS SHOWN
 SHEET 27 OF 81 DATE 7/14/03

REV 8/19/03



32

32



PLAN VIEW
 SITE 16, 19, 20, & 21

NC DEPT. OF TRANSPORTATION
 DIVISION OF HIGHWAYS
 ONSLOW COUNTY
 STATE PROJ: 8.TI9030I (R-25I4A)
 US 17 NORTH OF JACKSONVILLE FROM
 SR 1327 TO SR 1330/1439
 SCALE AS SHOWN
 SHEET 28 OF 81 DATE 7/14/03

0.9 m BASE HEAD DITCH
 9.0m @ 0.22%

SITE 19

SITE 20

SITE 16

SITE 21

US 17

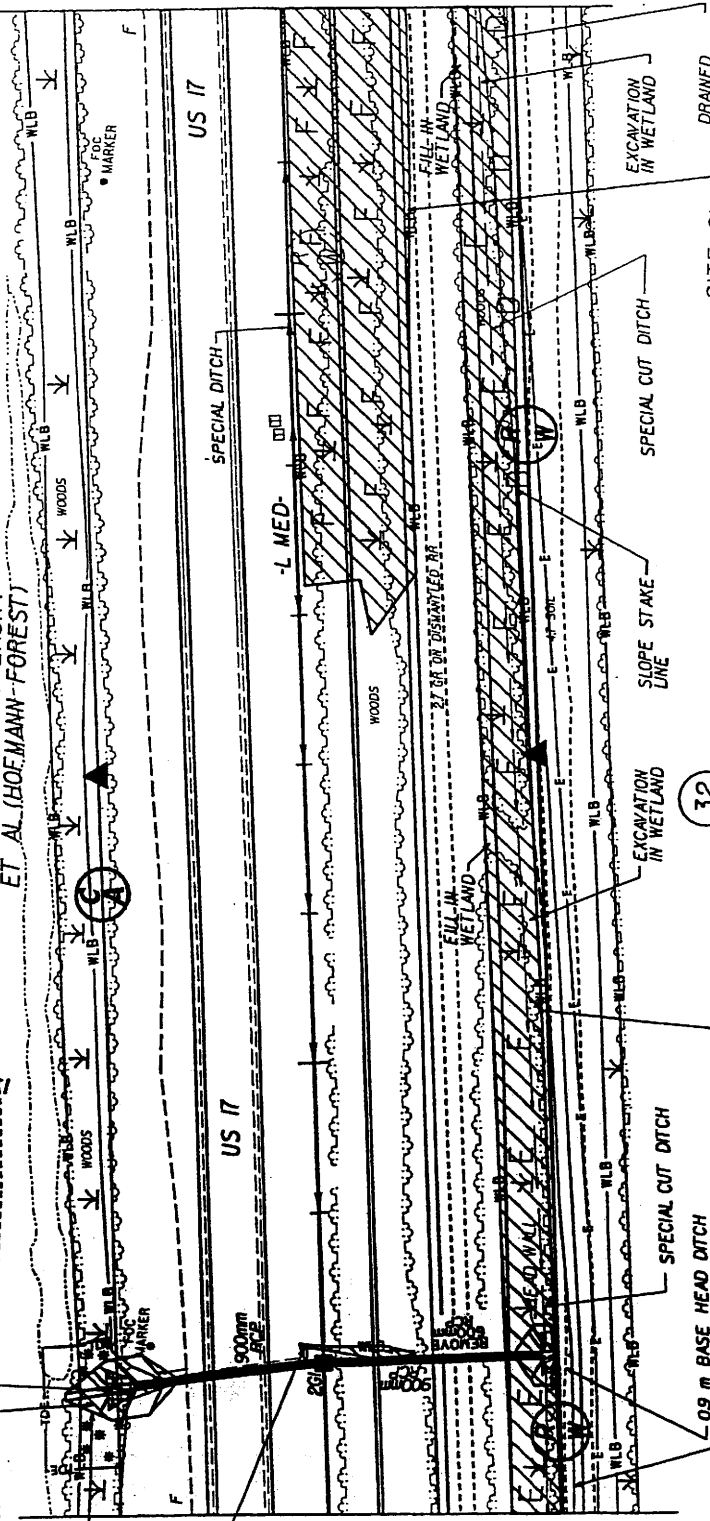
US 17

MATCH LINE 134-40

MATCH LINE 132-40

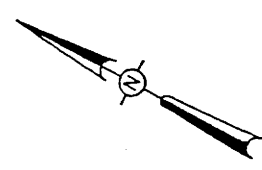
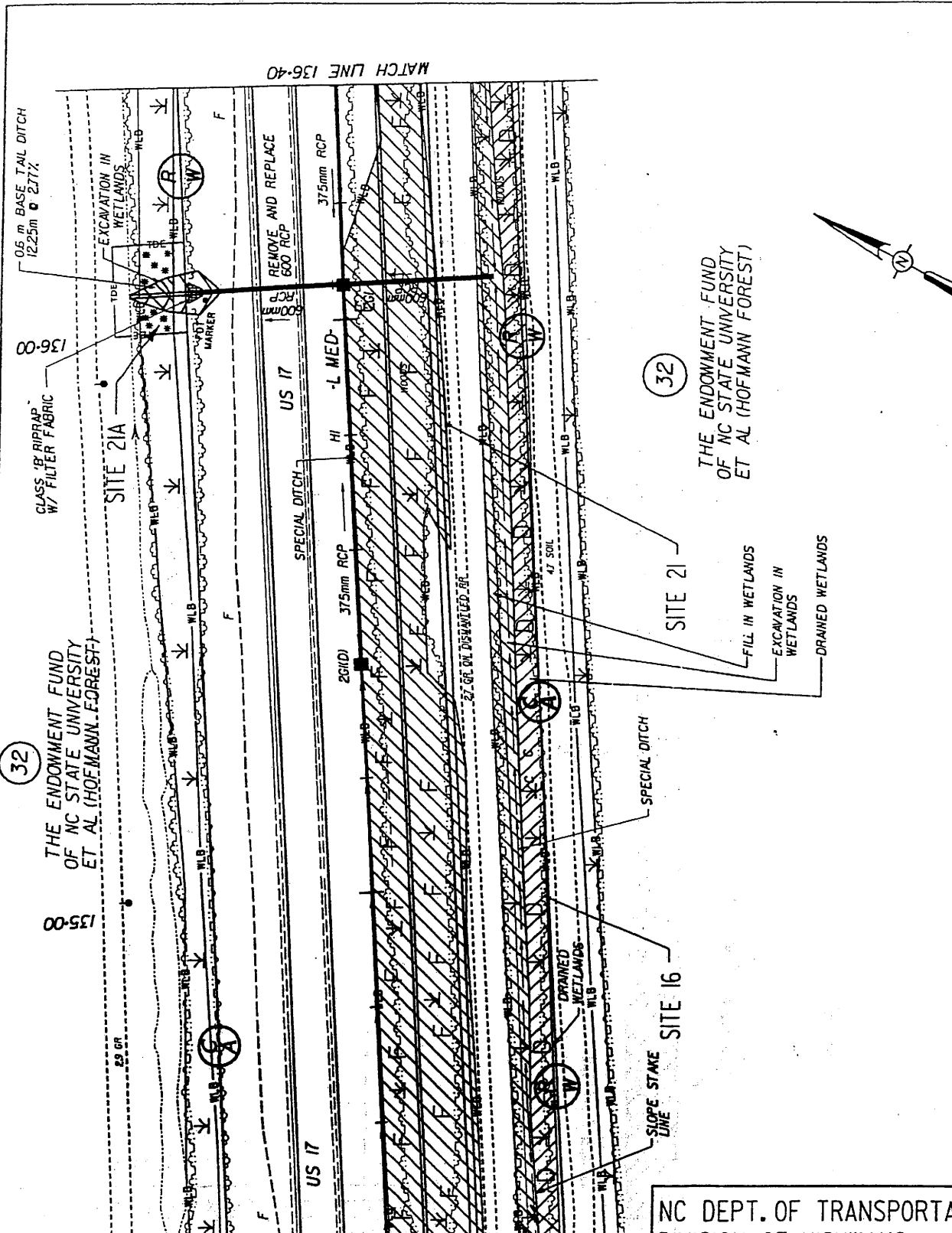
13400

13300



THE ENDOWMENT FUND
 OF NC STATE UNIVERSITY
 ET AL (HOFMANN FOREST)

THE ENDOWMENT FUND
 OF NC STATE UNIVERSITY
 ET AL (BOEMANN FOREST)

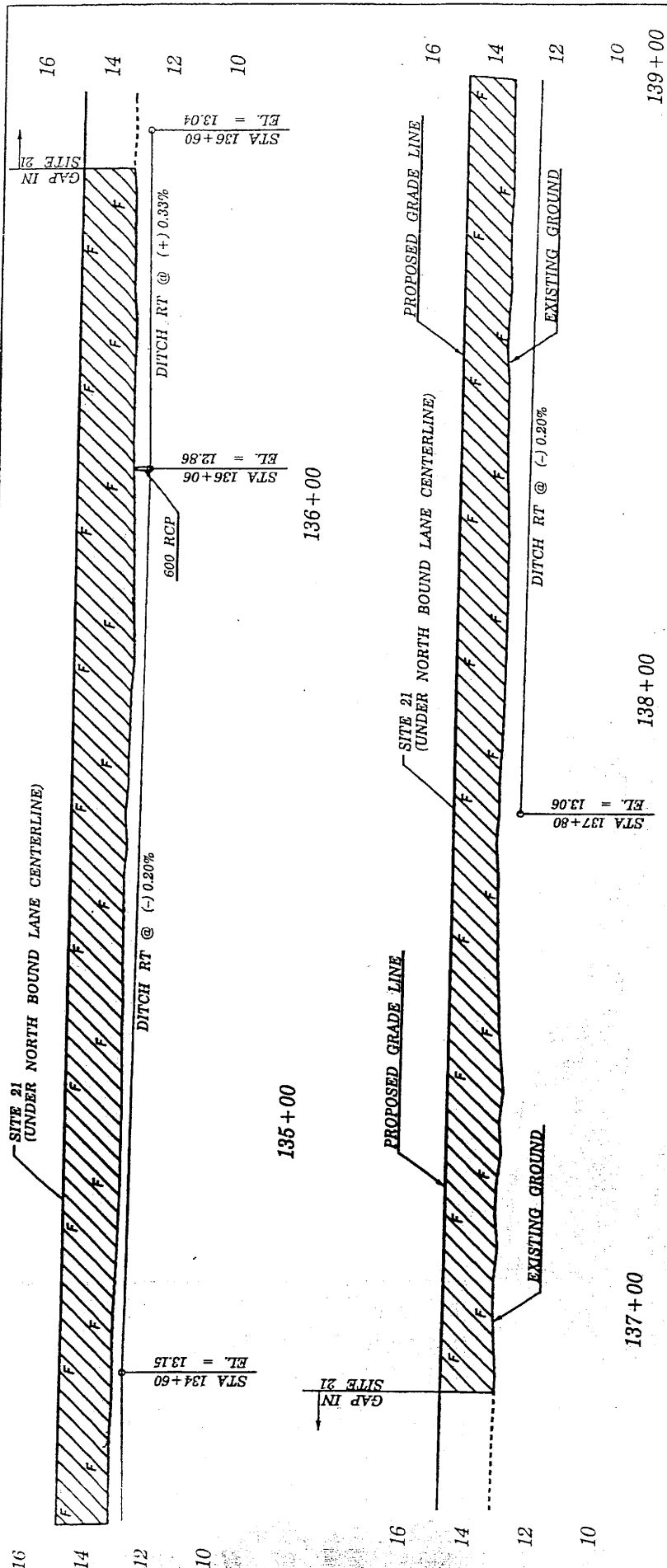


PLAN VIEW
SITE 16, 21 & 21A

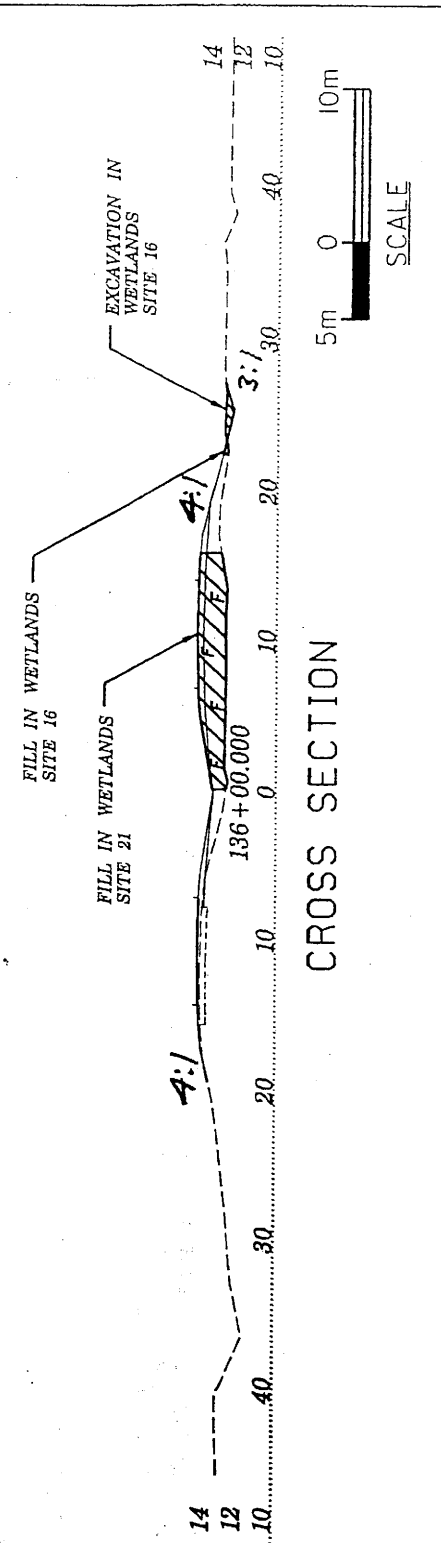
NC DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS
ONSLOW COUNTY
STATE PROJ: 8.T190301 (R-2514A)
US 17 NORTH OF JACKSONVILLE FROM
SR 1327 TO SR 1330/1439
SCALE AS SHOWN
SHEET 29 OF 81 DATE 7/14/03

32
THE ENDOWMENT FUND
OF NC STATE UNIVERSITY
ET AL (HOFMANN FOREST)
135-00

32
THE ENDOWMENT FUND
OF NC STATE UNIVERSITY
ET AL (HOFMANN FOREST)



SITE 16 & 21
PROFILE VIEW

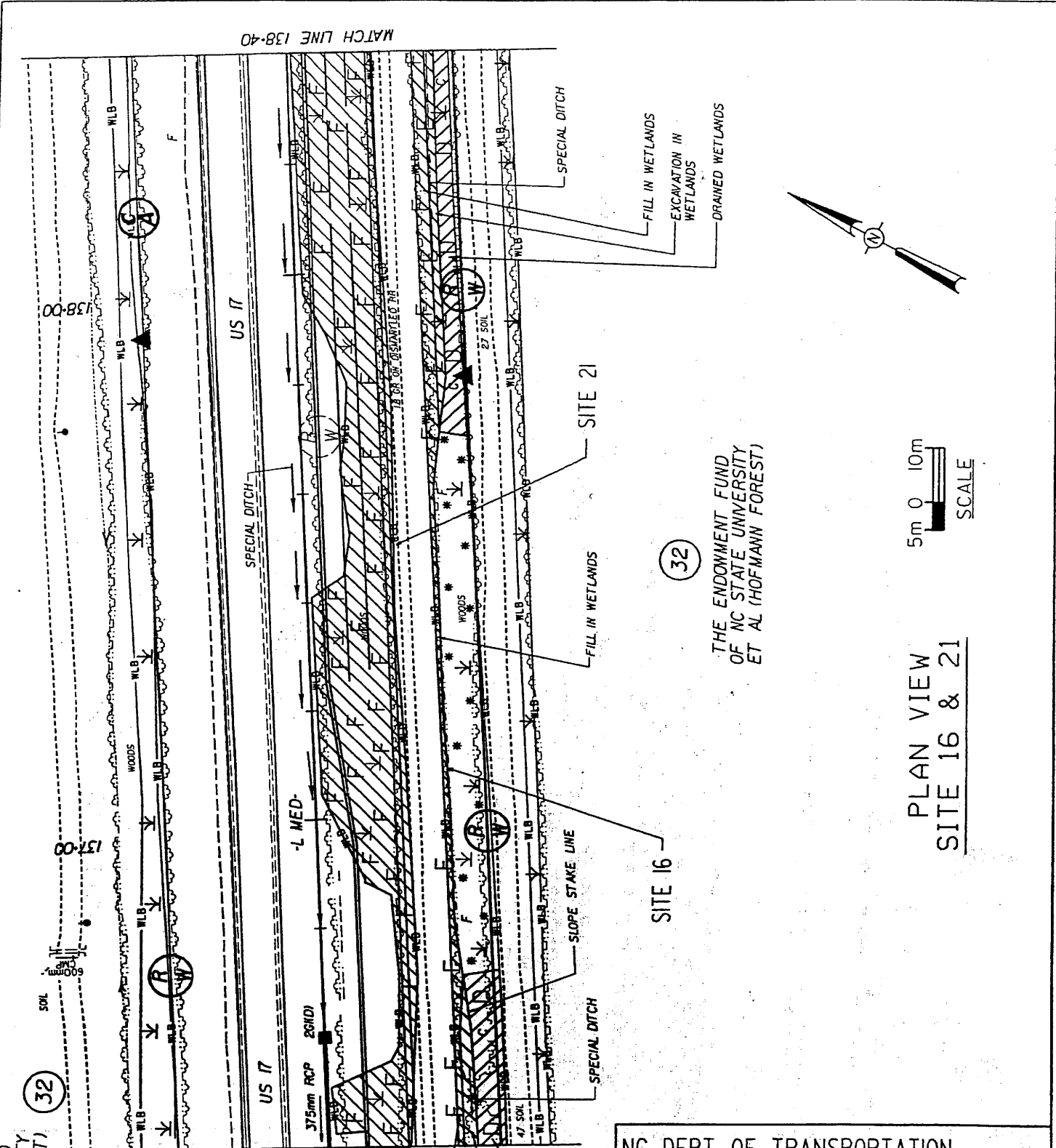


CROSS SECTION

NC DEPT. OF TRANSPORTATION
 DIVISION OF HIGHWAYS
 ONSLOW COUNTY
 STATE PROJ: 8.T190301 (R-2514A)
 US 17 NORTH OF JACKSONVILLE FROM
 SR 1327 TO SR 1330/1439
 SCALE AS SHOWN
 SHEET 30 OF 81 DATE 7/14/03
 REV 8/19/03

THE ENDOWMENT FUND
OF NC STATE UNIVERSITY
ET AL (HOFMANN FOREST)

32



PLAN VIEW
SITE 16 & 21

THE ENDOWMENT FUND
OF NC STATE UNIVERSITY
ET AL (HOFMANN FOREST)

32

NC DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS
ONSLOW COUNTY
STATE PROJ: 8.T190301 (R-2514A)
US 17 NORTH OF JACKSONVILLE FROM
SR 1327 TO SR 1330/1439
SCALE AS SHOWN
SHEET 31 OF 81 DATE 7/14/03

THE ENDOWMENT FUND
OF NC STATE UNIVERSITY
ET AL (HOFMANN FOREST)

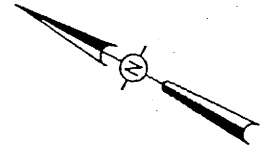
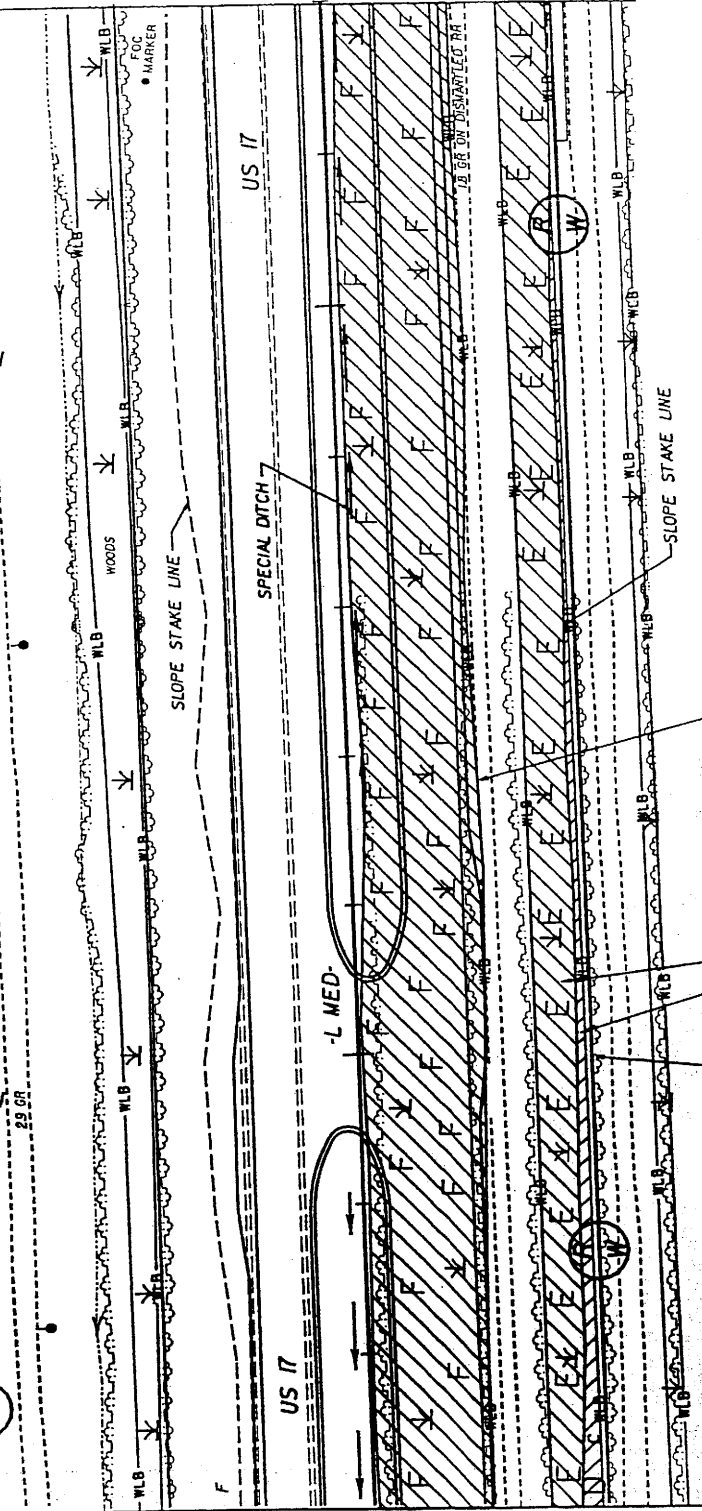
32

140-00

139-00
29.00

MATCH LINE 140-40

MATCH LINE 138-40



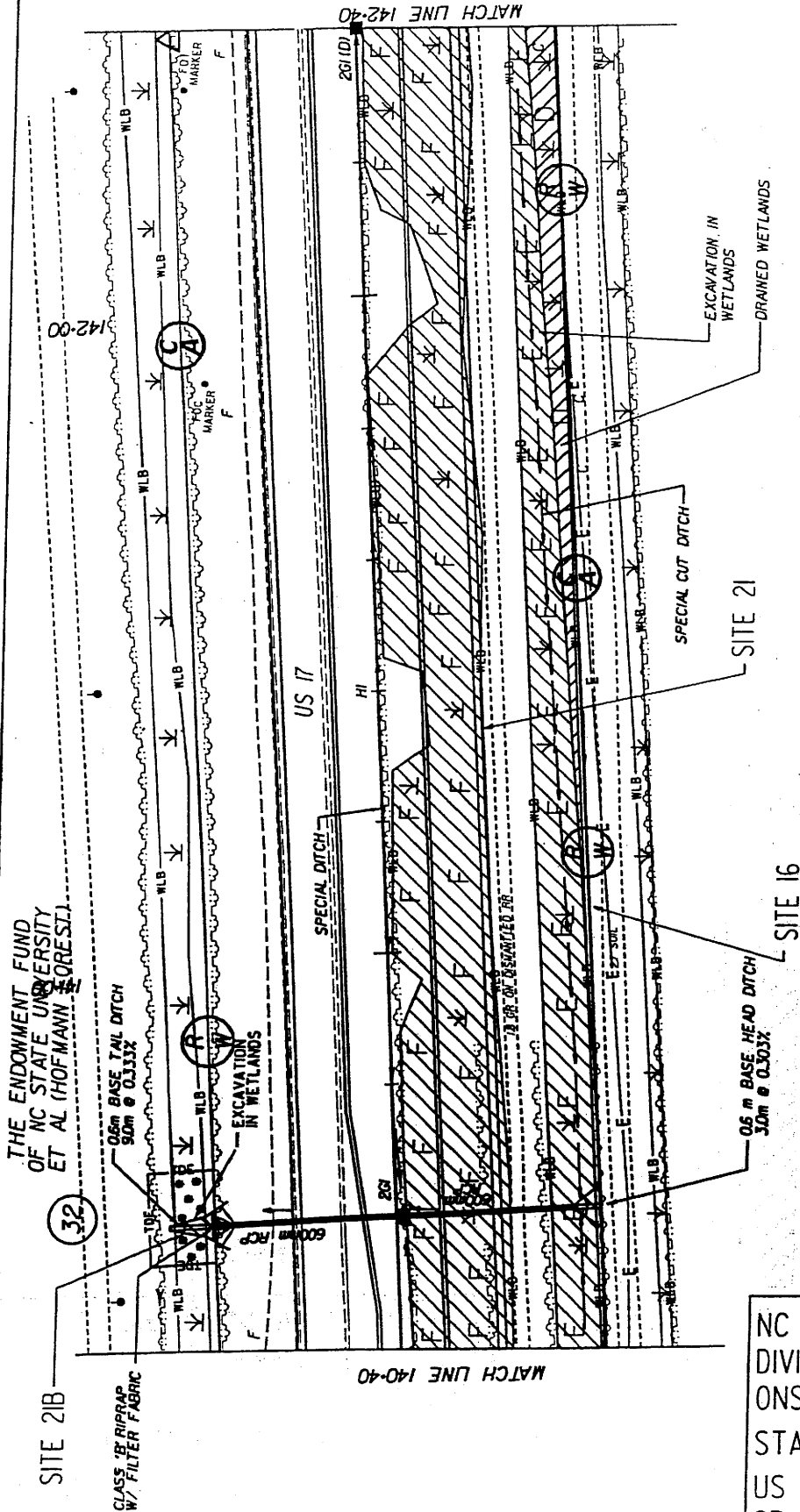
5m 0 10m
SCALE

THE ENDOWMENT FUND
OF NC STATE UNIVERSITY
ET AL (HOFMANN FOREST)

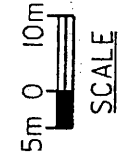
32

PLAN VIEW
SITE 16 & 21

NC DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS
ONSLow COUNTY
STATE PROJ: 8.T19030I (R-25I4A)
US 17 NORTH OF JACKSONVILLE FROM
SR 1327 TO SR 1330/1439
SCALE AS SHOWN
SHEET 32 OF 81 DATE 7/14/03

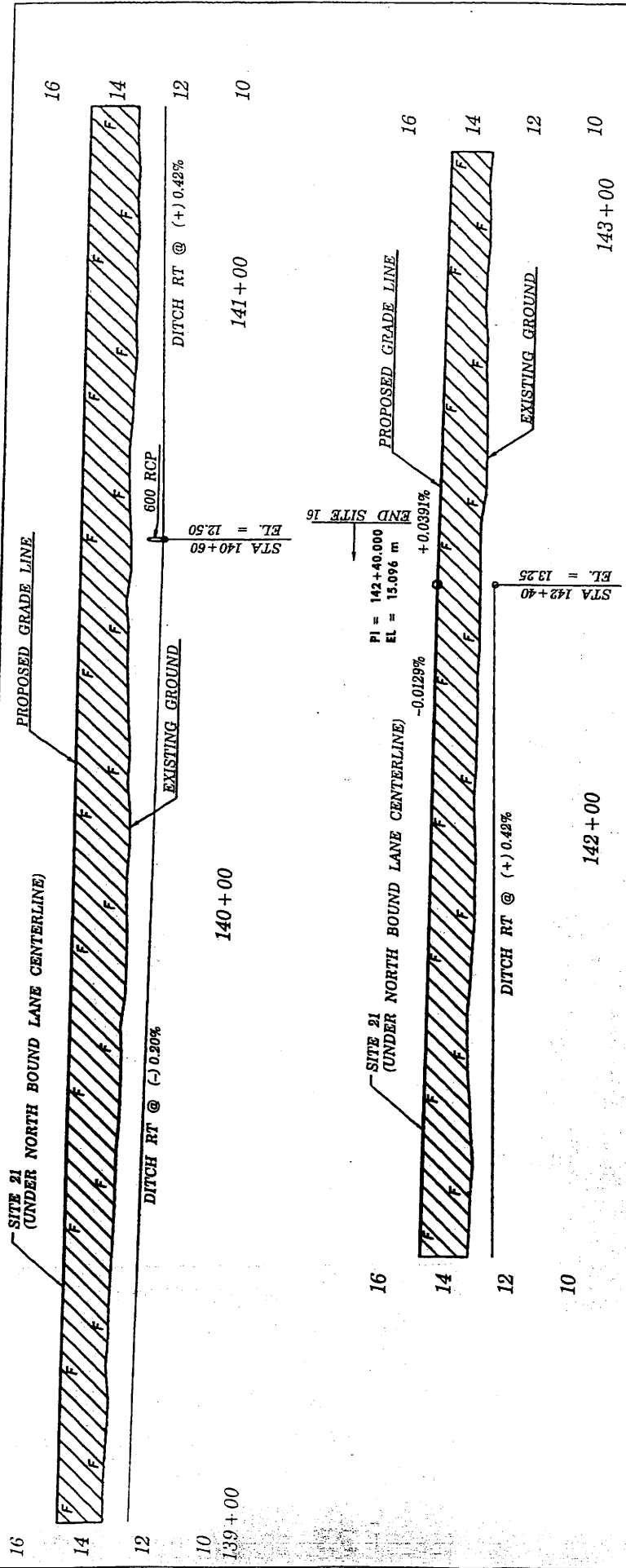


THE ENDOWMENT FUND
OF NC STATE UNIVERSITY
ET AL (HOFMANN FOREST)

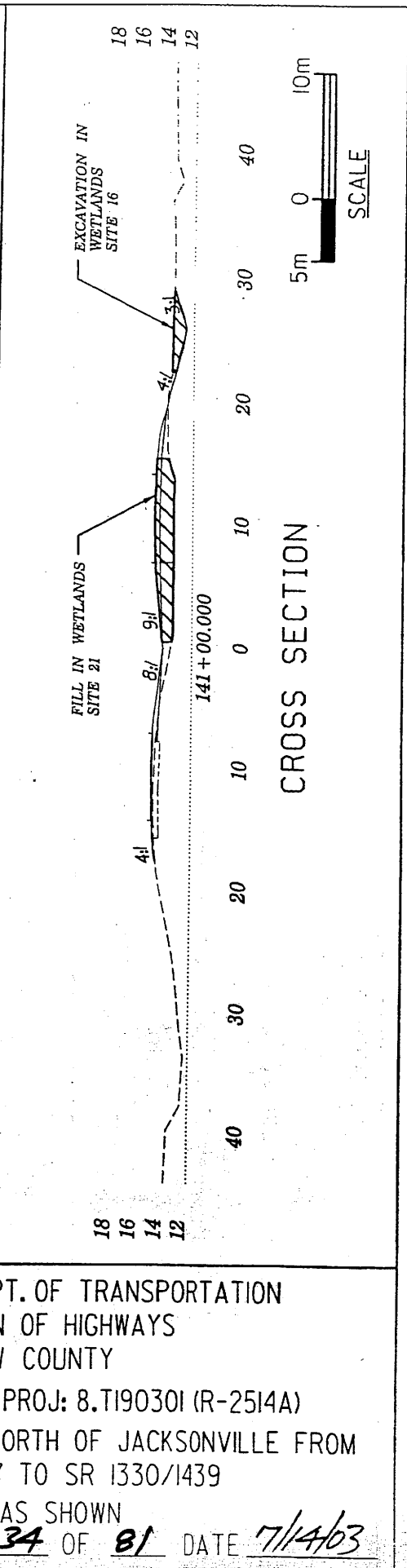


PLAN VIEW
SITE 16, 21, & 21B

NC DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS
ONSLow COUNTY
STATE PROJ: 8.T190301 (R-2514A)
US 17 NORTH OF JACKSONVILLE FROM
SR 1327 TO SR 1330/1439
SCALE AS SHOWN
SHEET **33** OF **81** DATE **7/14/03**

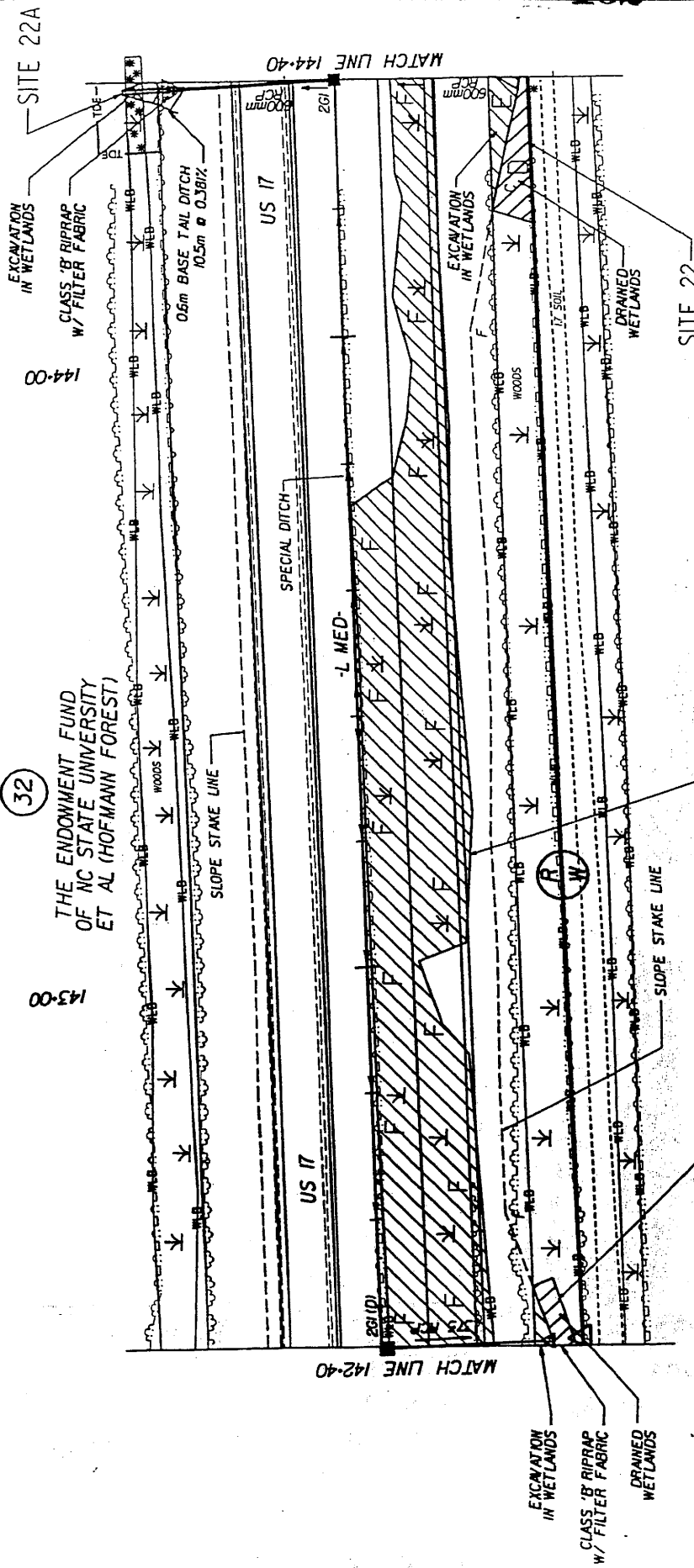


SITE 16 & 21
PROFILE VIEW



CROSS SECTION

NC DEPT. OF TRANSPORTATION
 DIVISION OF HIGHWAYS
 ONSLOW COUNTY
 STATE PROJ: 8.T190301 (R-2514A)
 US 17 NORTH OF JACKSONVILLE FROM
 SR 1327 TO SR 1330/1439
 SCALE AS SHOWN
 SHEET 34 OF 81 DATE 7/14/03



32

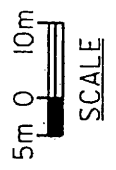
THE ENDOWMENT FUND OF NC STATE UNIVERSITY ET AL (HOFMANN FOREST)

143-00

144-00

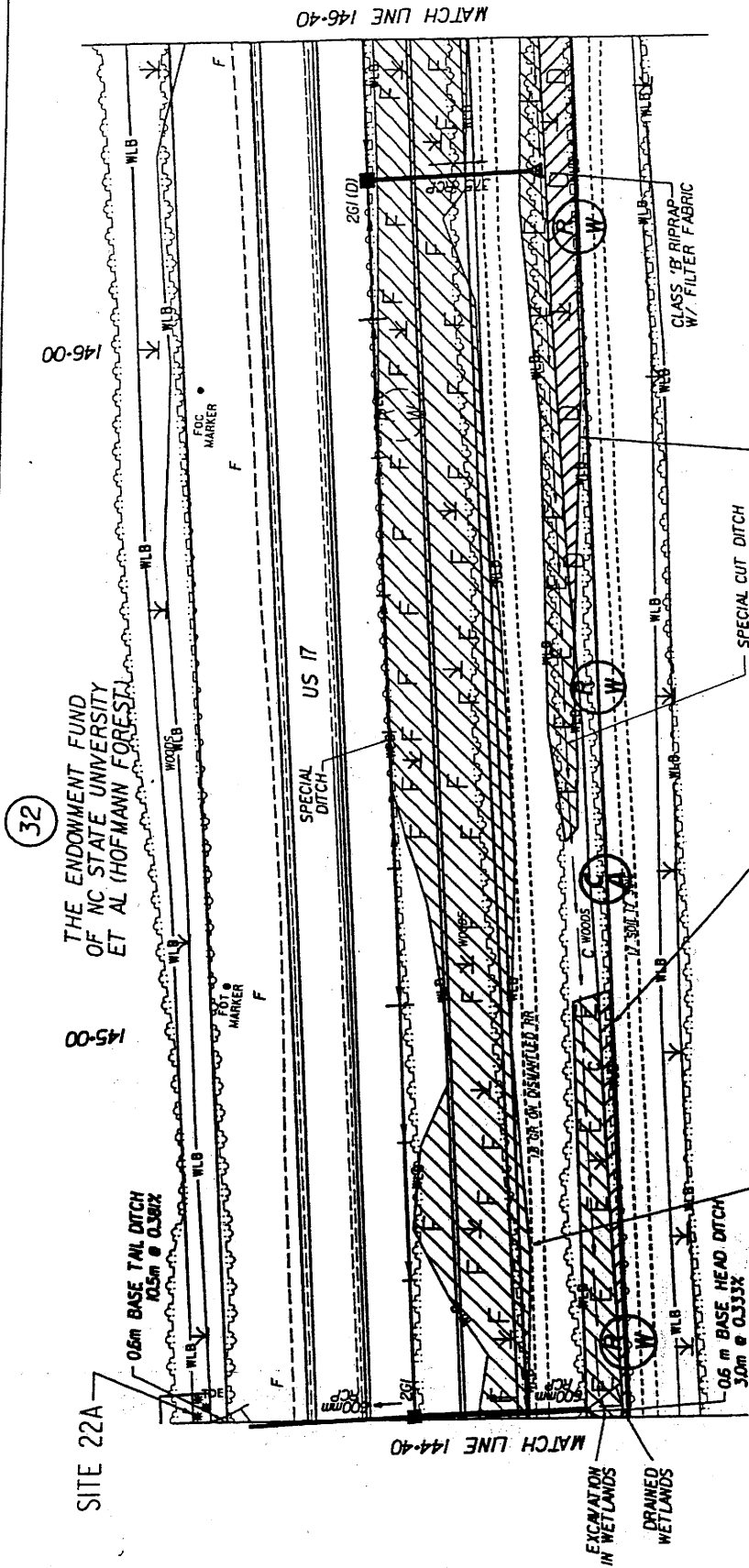
32

THE ENDOWMENT FUND OF NC STATE UNIVERSITY ET AL (HOFMANN FOREST)



PLAN VIEW
SITE 16, 21, 22 & 22A

NC DEPT. OF TRANSPORTATION
 DIVISION OF HIGHWAYS
 ONSLOW COUNTY
 STATE PROJ: 8.T190301 (R-2514A)
 US 17 NORTH OF JACKSONVILLE FROM
 SR 1327 TO SR 1330/1439
 SCALE AS SHOWN
 SHEET 35 OF 81 DATE 7/14/03



32

THE ENDOWMENT FUND OF NC STATE UNIVERSITY ET AL (HOFMANN FOREST)

145-00

SITE 22A

0.6m BASE TAIL DITCH 10.5m @ 0.333%

FOC MARKER

SPECIAL DITCH

US 17

26'(D)

MATCH LINE 144-40

EXCAVATION IN WETLANDS
DRAINED WETLANDS

SITE 21

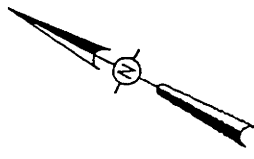
SITE 22

SITE 23

CLASS 'B' RIPRAP W/ FILTER FABRIC

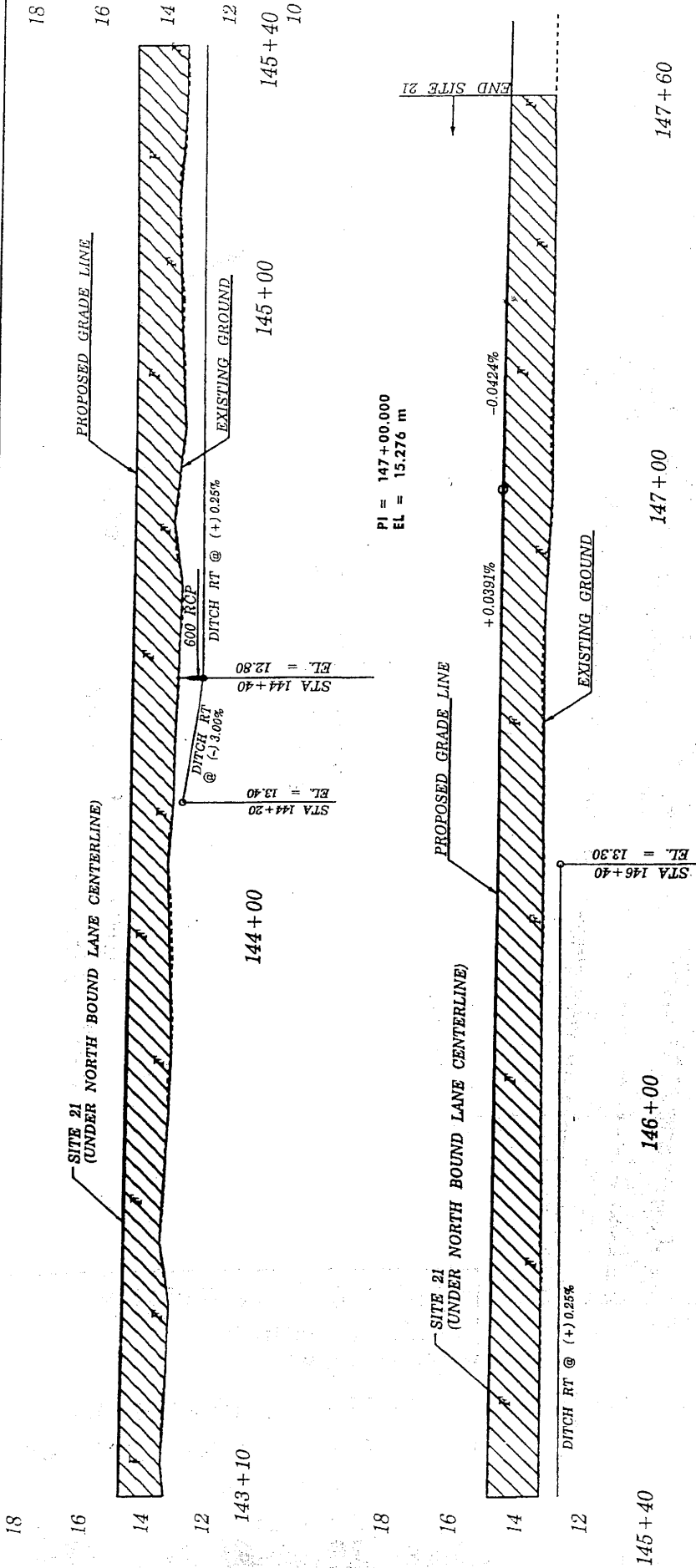
32

THE ENDOWMENT FUND OF NC STATE UNIVERSITY ET AL (HOFMANN FOREST)



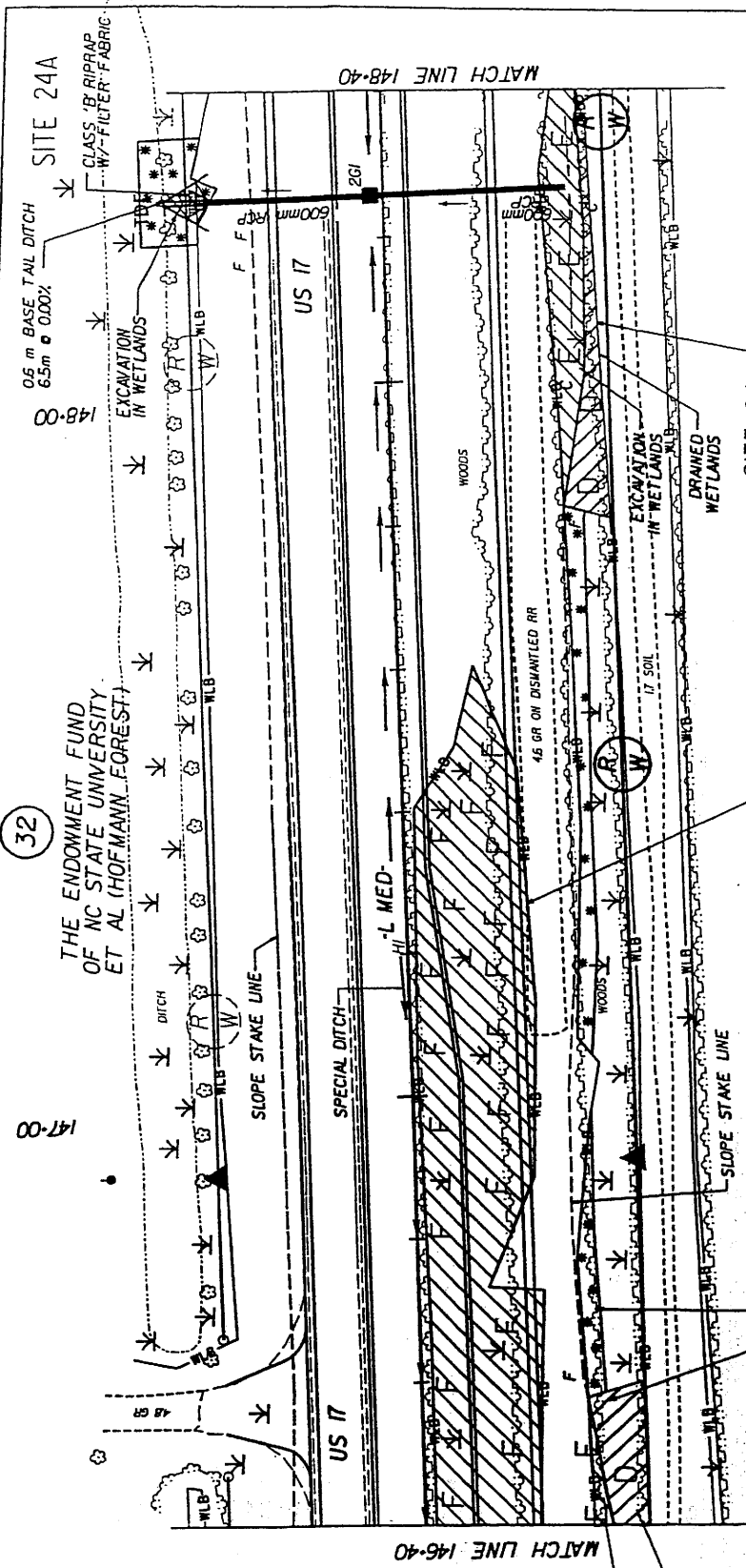
PLAN VIEW
SITE 21, 22, 22A & 23

NC DEPT. OF TRANSPORTATION
 DIVISION OF HIGHWAYS
 ONSLOW COUNTY
 STATE PROJ: 8.T190301 (R-2514A)
 US 17 NORTH OF JACKSONVILLE FROM
 SR 1327 TO SR 1330/1439
 SCALE AS SHOWN
 SHEET 36 OF 81 DATE 7/14/03



SITE 21
PROFILE VIEW

NC DEPT. OF TRANSPORTATION
 DIVISION OF HIGHWAYS
 ONSLOW COUNTY
 STATE PROJ: 8.T19030I (R-2514A)
 US 17 NORTH OF JACKSONVILLE FROM
 SR 1327 TO SR 1330/1439
 SCALE AS SHOWN
 SHEET 37 OF 81 DATE 7/14/03

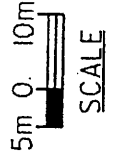


32

THE ENDOWMENT FUND OF NC STATE UNIVERSITY ET AL (HOFMANN FOREST)

32

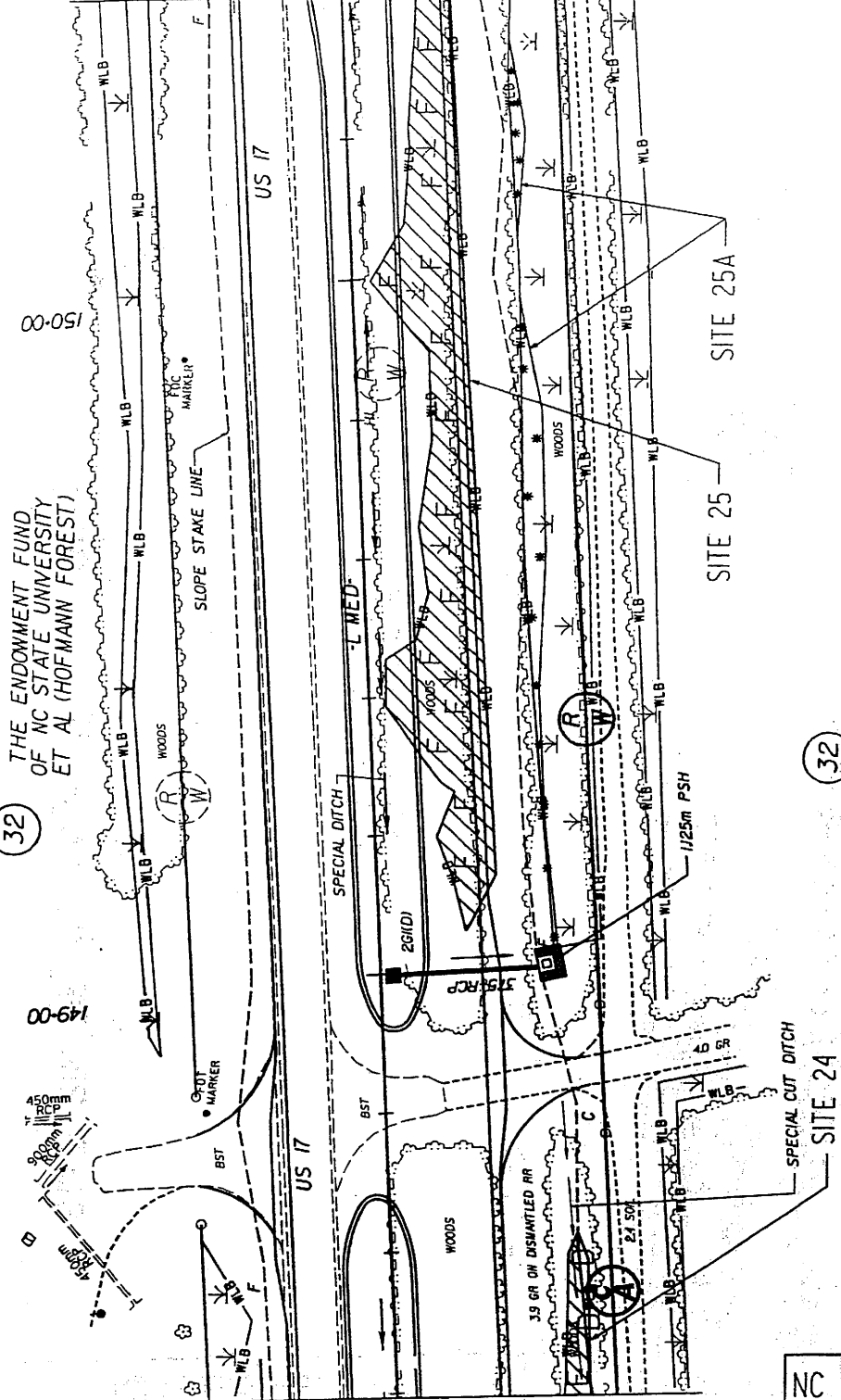
THE ENDOWMENT FUND OF NC STATE UNIVERSITY ET AL (HOFMANN FOREST)



PLAN VIEW
SITE 21, 23, 24 & 24A

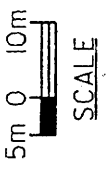
NC DEPT. OF TRANSPORTATION
 DIVISION OF HIGHWAYS
 ONSLOW COUNTY
 STATE PROJ: 8.T190301 (R-2514A)
 US 17 NORTH OF JACKSONVILLE FROM
 SR 1327 TO SR 1330/1439
 SCALE AS SHOWN
 SHEET 38 OF 81 DATE 7/14/03

MATCH LINE 150-40



32

THE ENDOWMENT FUND OF NC STATE UNIVERSITY ET AL (HOFMANN FOREST)



PLAN VIEW SITE 24, 25 & 25A

NC DEPT. OF TRANSPORTATION
 DIVISION OF HIGHWAYS
 ONSLOW COUNTY
 STATE PROJ: 8.T190301 (R-2514A)
 US 17 NORTH OF JACKSONVILLE FROM
 SR 1327 TO SR 1330/1439
 SCALE AS SHOWN
 SHEET 39 OF 81 DATE 7/14/03

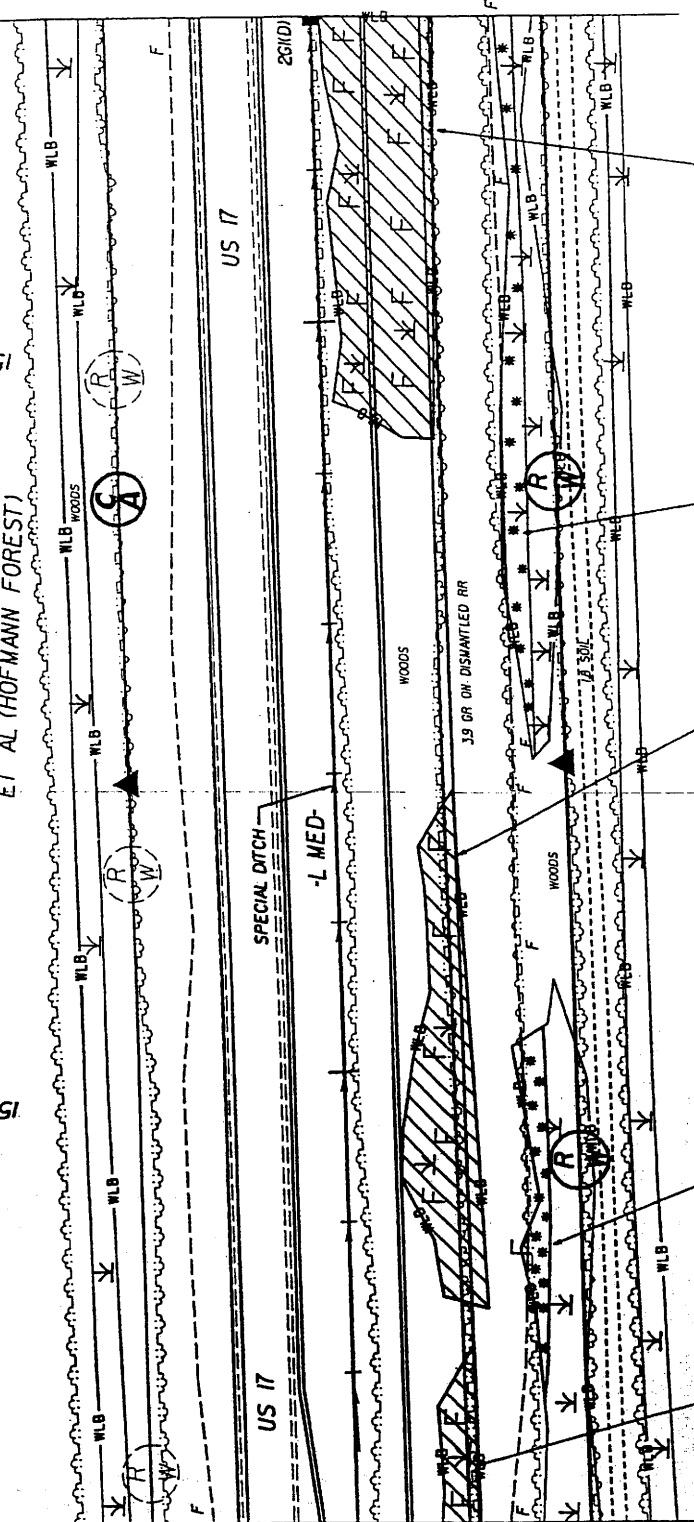
MATCH LINE 152-40

152-00

THE ENDOWMENT FUND
OF NC STATE UNIVERSITY
ET AL (HOFMANN FOREST)

32

151-00



THE ENDOWMENT FUND
OF NC STATE UNIVERSITY
ET AL (HOFMANN FOREST)

32

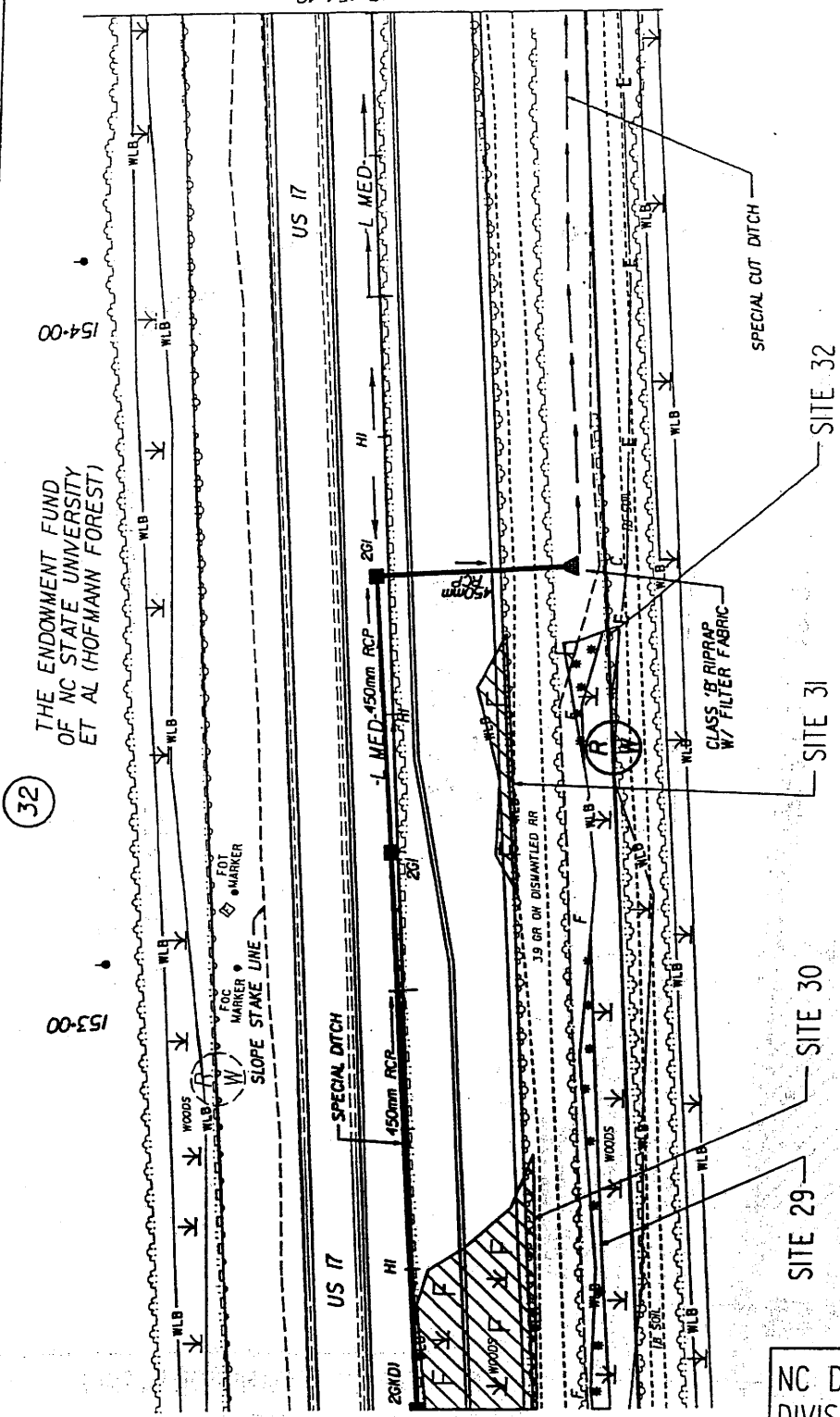
PLAN VIEW
SITE 25, 26, 28, 29, & 30



NC DEPT. OF TRANSPORTATION
 DIVISION OF HIGHWAYS
 ONSLOW COUNTY
 STATE PROJ: 8.T19030I (R-2514A)
 US 17 NORTH OF JACKSONVILLE FROM
 SR 1327 TO SR 1330/1439
 SCALE AS SHOWN
 SHEET 40 OF 81 DATE 7/14/03

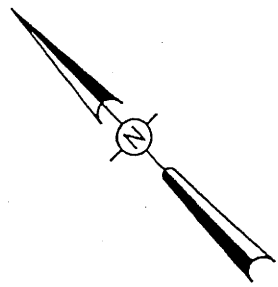
MATCH LINE 154+40

MATCH LINE 152+40



32

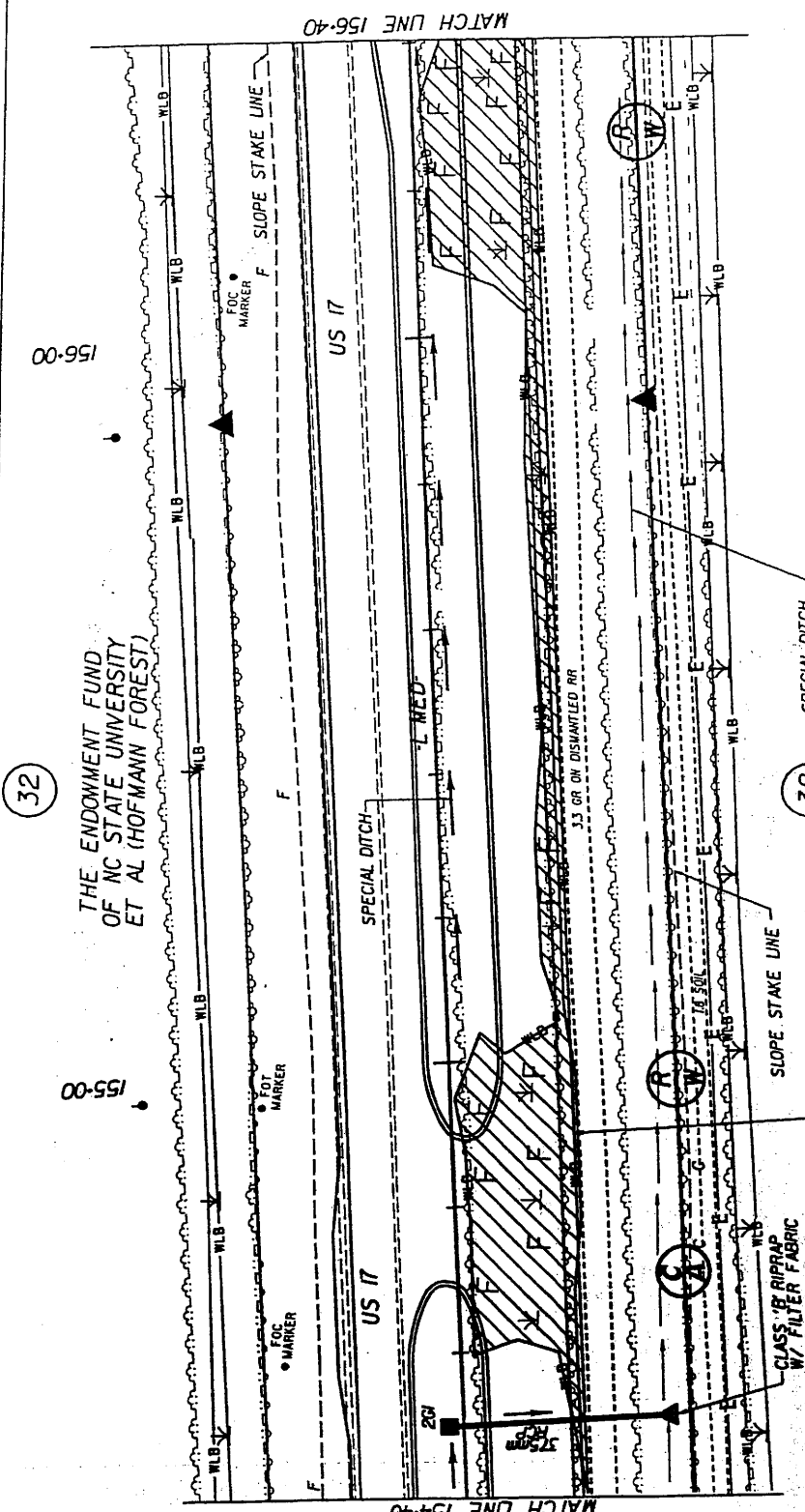
32



PLAN VIEW
 SITE 29, 30, 31, & 32

THE ENDOWMENT FUND
 OF NC STATE UNIVERSITY
 ET AL (HOFMANN FOREST)

NC DEPT. OF TRANSPORTATION
 DIVISION OF HIGHWAYS
 ONSLOW COUNTY
 STATE PROJ: 8.T190301 (R-2514A)
 US 17 NORTH OF JACKSONVILLE FROM
 SR 1327 TO SR 1330/1439
 SCALE AS SHOWN
 SHEET 41 OF 81 DATE 7/14/03



32

THE ENDOWMENT FUND OF NC STATE UNIVERSITY ET AL (HOFMANN FOREST)

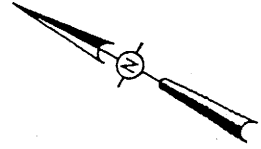
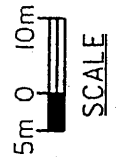
155-00

156-00

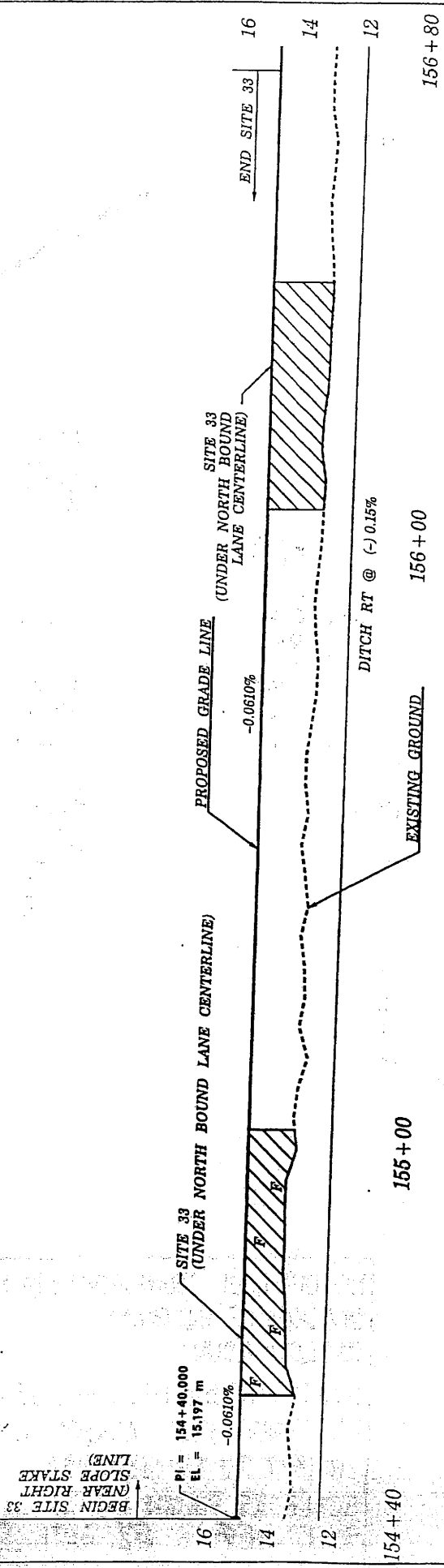
32

THE ENDOWMENT FUND OF NC STATE UNIVERSITY ET AL (HOFMANN FOREST)

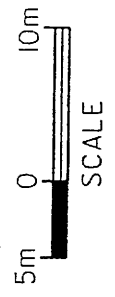
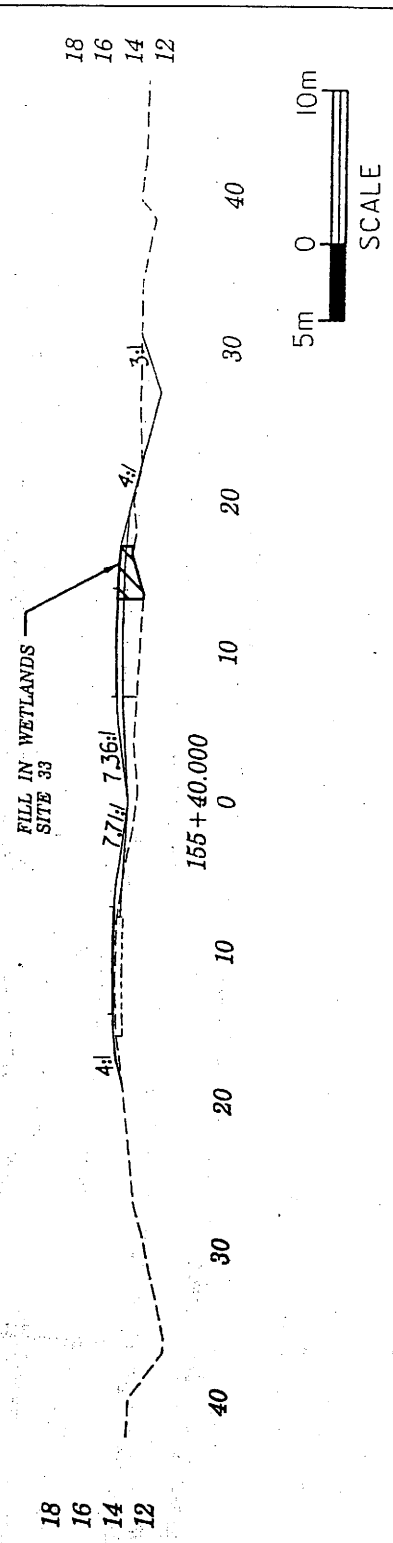
PLAN VIEW
SITE 33



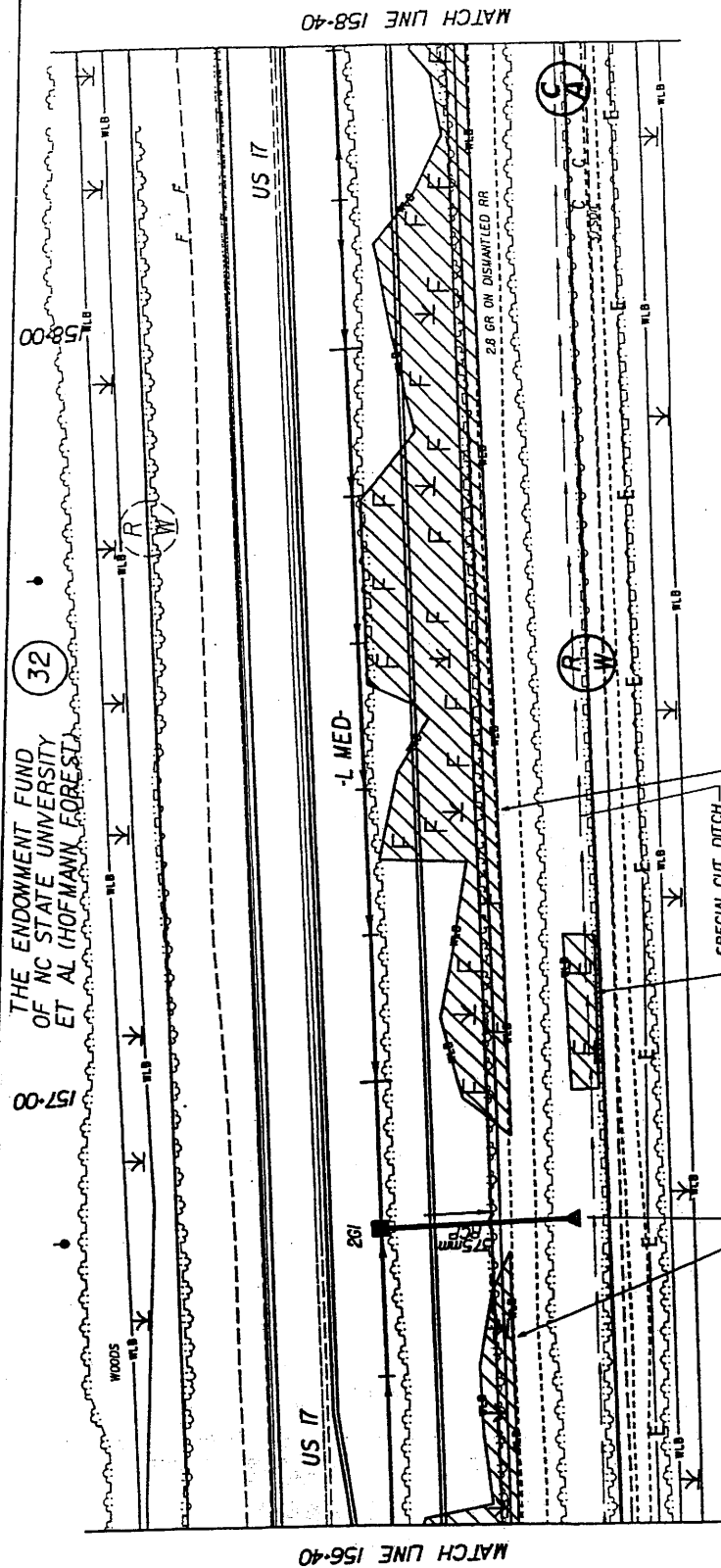
NC DEPT. OF TRANSPORTATION
 DIVISION OF HIGHWAYS
 ONSLOW COUNTY
 STATE PROJ: 8.T19030I (R-2514A)
 US 17 NORTH OF JACKSONVILLE FROM
 SR 1327 TO SR 1330/1439
 SCALE AS SHOWN
 SHEET 42 OF 81 DATE 7/14/03



SITE 33
PROFILE VIEW



NC DEPT. OF TRANSPORTATION
 DIVISION OF HIGHWAYS
 ONSLOW COUNTY
 STATE PROJ: 8.T19030I (R-2514A)
 US 17 NORTH OF JACKSONVILLE FROM
 SR 1327 TO SR 1330/1439
 SCALE AS SHOWN
 SHEET 43 OF 81 DATE 7/14/03



THE ENDOWMENT FUND
OF NC STATE UNIVERSITY
ET AL (HOFMANN FOREST)

32

157-00

WOODS

US 17

MATCH LINE 156-40

MATCH LINE 158-40

L MED

261

2.6 GR ON DISMANTLED RR

32

32

SPECIAL CUT DITCH

SITE 35

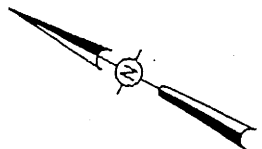
SITE 34

SITE 33

CLASS 'B' RIPRAP
W/ FILTER FABRIC

THE ENDOWMENT FUND
OF NC STATE UNIVERSITY
ET AL (HOFMANN FOREST)

32



PLAN VIEW
SITE 33, 34, & 35

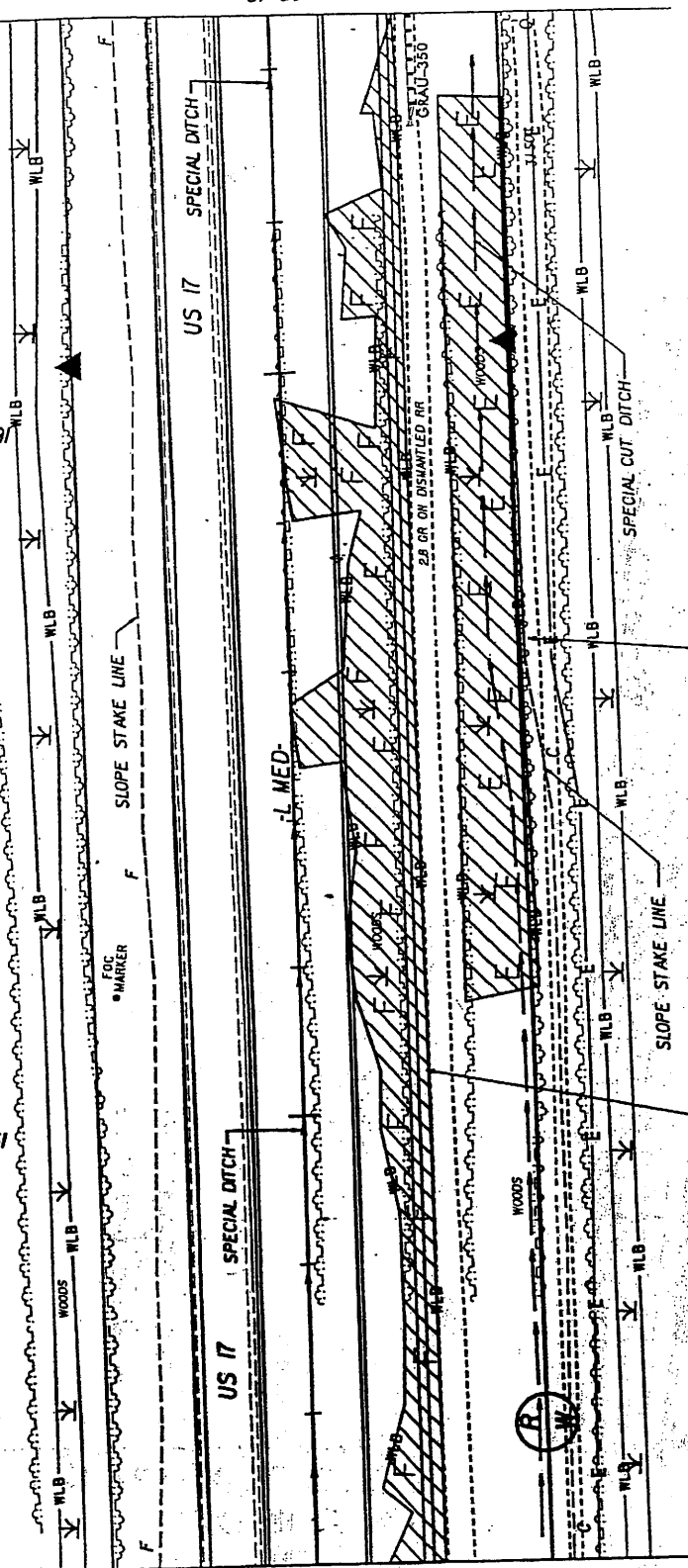
NC DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS
ONslow COUNTY
STATE PROJ: 8.TI9030I (R-2514A)
US 17 NORTH OF JACKSONVILLE FROM
SR 1327 TO SR 1330/1439
SCALE AS SHOWN
SHEET 44 OF 81 DATE 7/14/03

MATCH LINE 160-40

THE ENDOWMENT FUND
OF NC STATE UNIVERSITY
ET AL (HOFMANN FOREST)

00-651

32



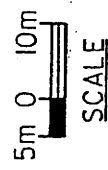
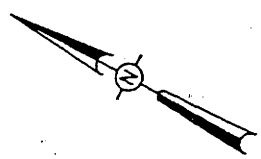
MATCH LINE 158-40

SITE 36

SITE 35

32

THE ENDOWMENT FUND
OF NC STATE UNIVERSITY
ET AL (HOFMANN FOREST)



PLAN VIEW
SITE 35 & 36

NC DEPT. OF TRANSPORTATION
 DIVISION OF HIGHWAYS
 ONSLOW COUNTY
 STATE PROJ: 8.T190301 (R-2514A)
 US 17 NORTH OF JACKSONVILLE FROM
 SR 1327 TO SR 1330/1439
 SCALE AS SHOWN
 SHEET 45 OF 81 DATE 7/14/03

THE ENDOWMENT FUND
OF NC STATE UNIVERSITY
ET AL (HOFMANN FOREST)

32

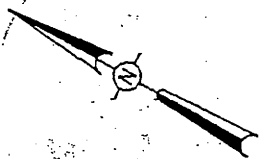
162+00

PERENNIAL
STREAM

CLASS 'B' RIPRAP
EST. 50 METRIC TONS
FOR 8m W/ F.F.
EACH BANK

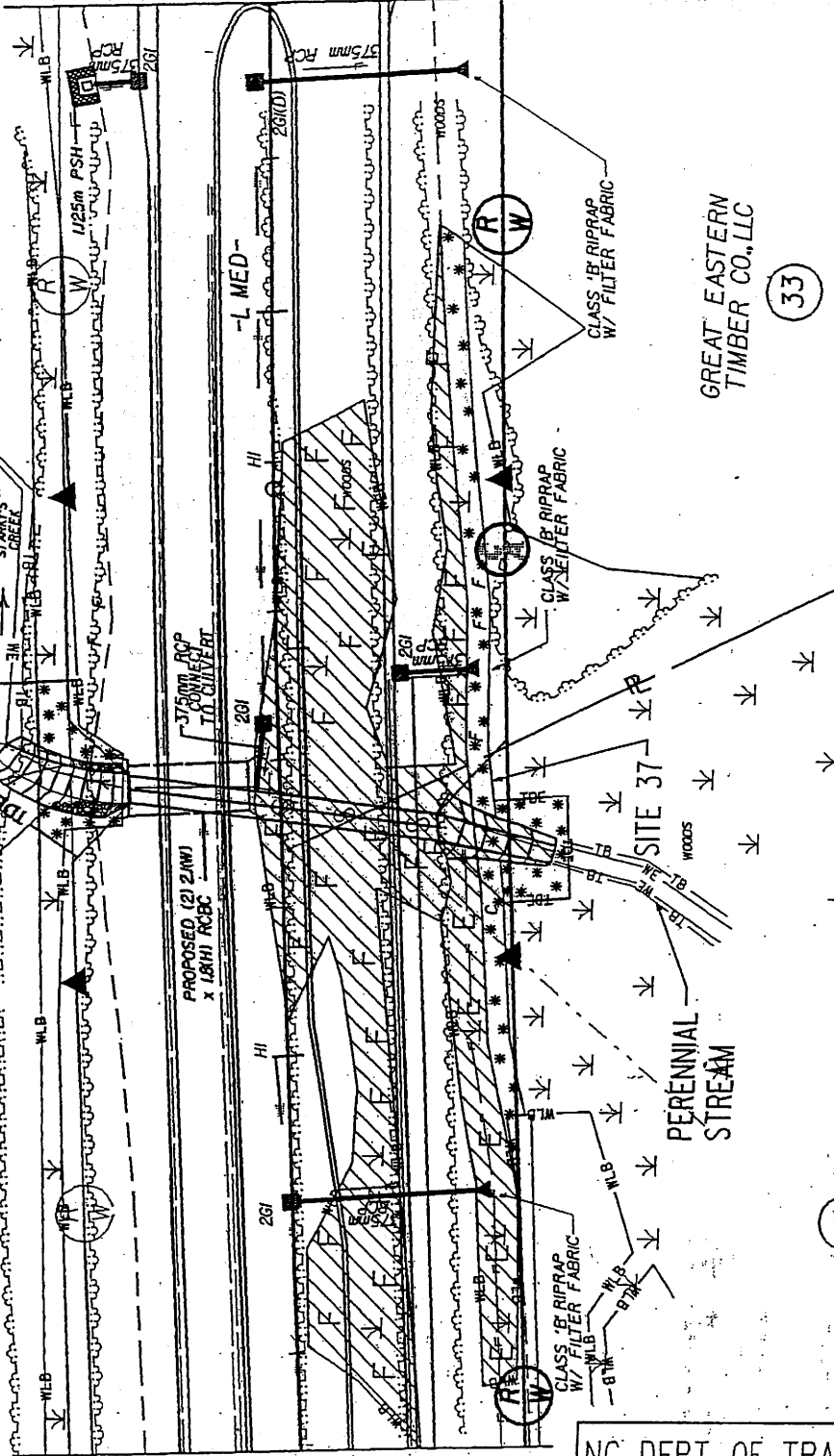
SITE 37A

161+00



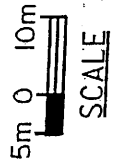
MATCH LINE 162+40

173



GREAT EASTERN
TIMBER CO., LLC

33

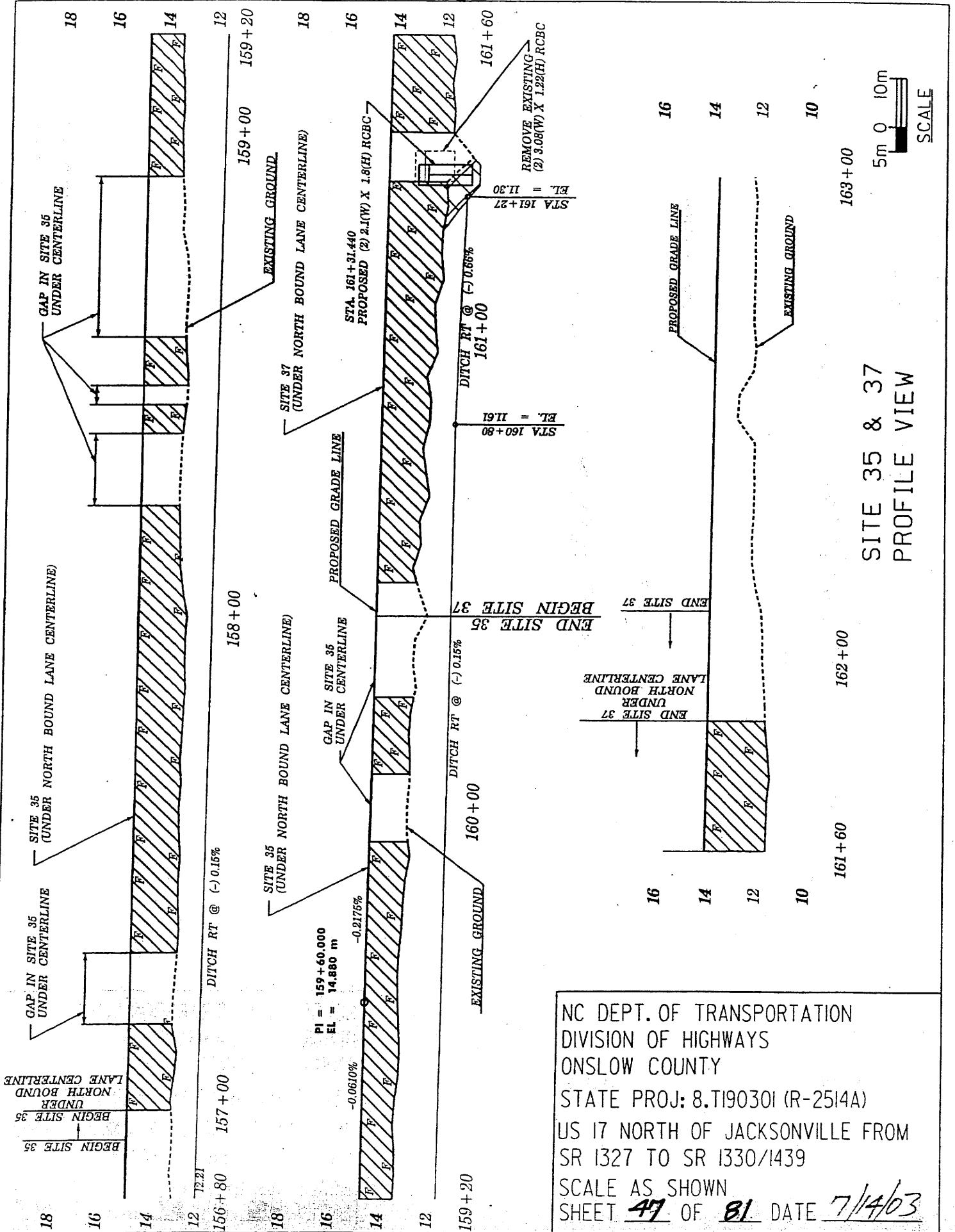


PLAN VIEW
SITE 37 & 37A

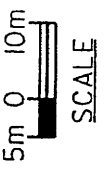
THE ENDOWMENT FUND
OF NC STATE UNIVERSITY
ET AL (HOFMANN FOREST)

32

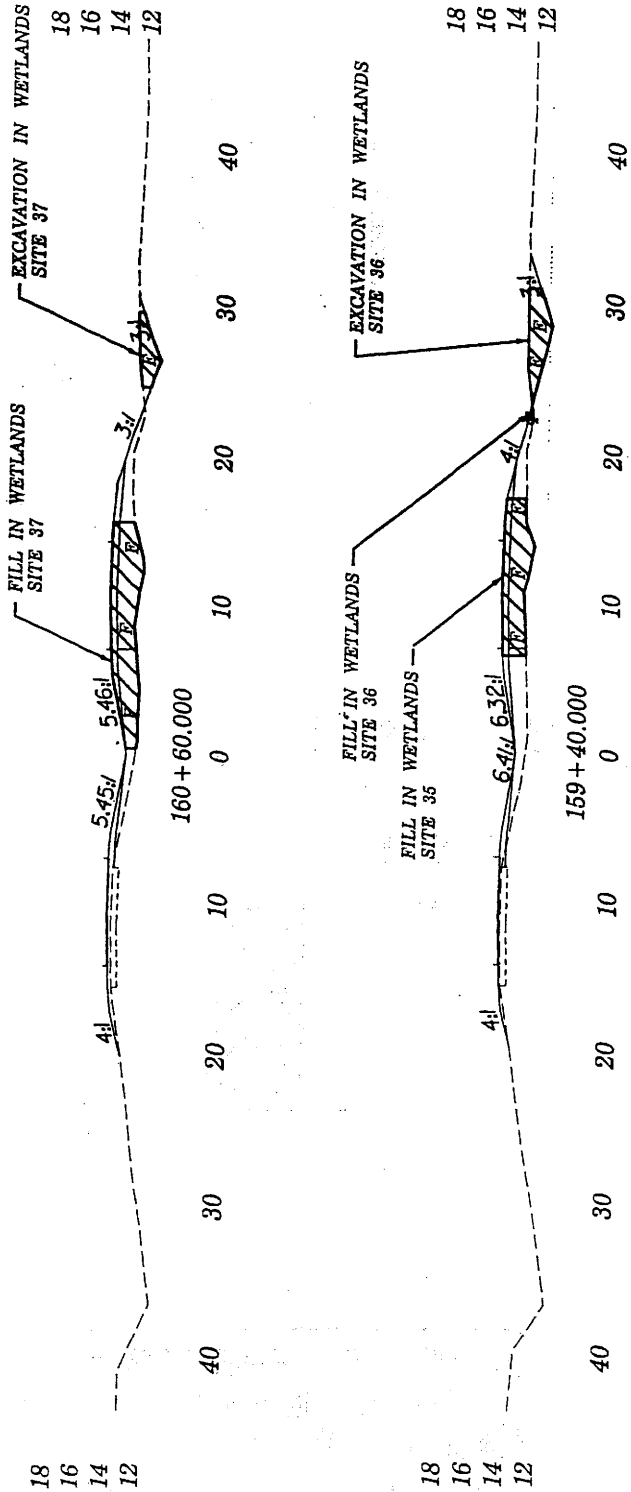
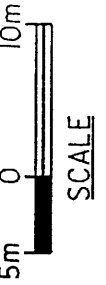
NC DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS
ONSLow COUNTY
STATE PROJ: 8.T190301 (R-2514A)
US 17 NORTH OF JACKSONVILLE FROM
SR 1327 TO SR 1330/1439
SCALE AS SHOWN
SHEET 46 OF 81 DATE 04/01/04



SITE 35 & 37
PROFILE VIEW

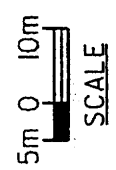
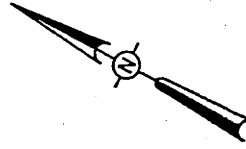
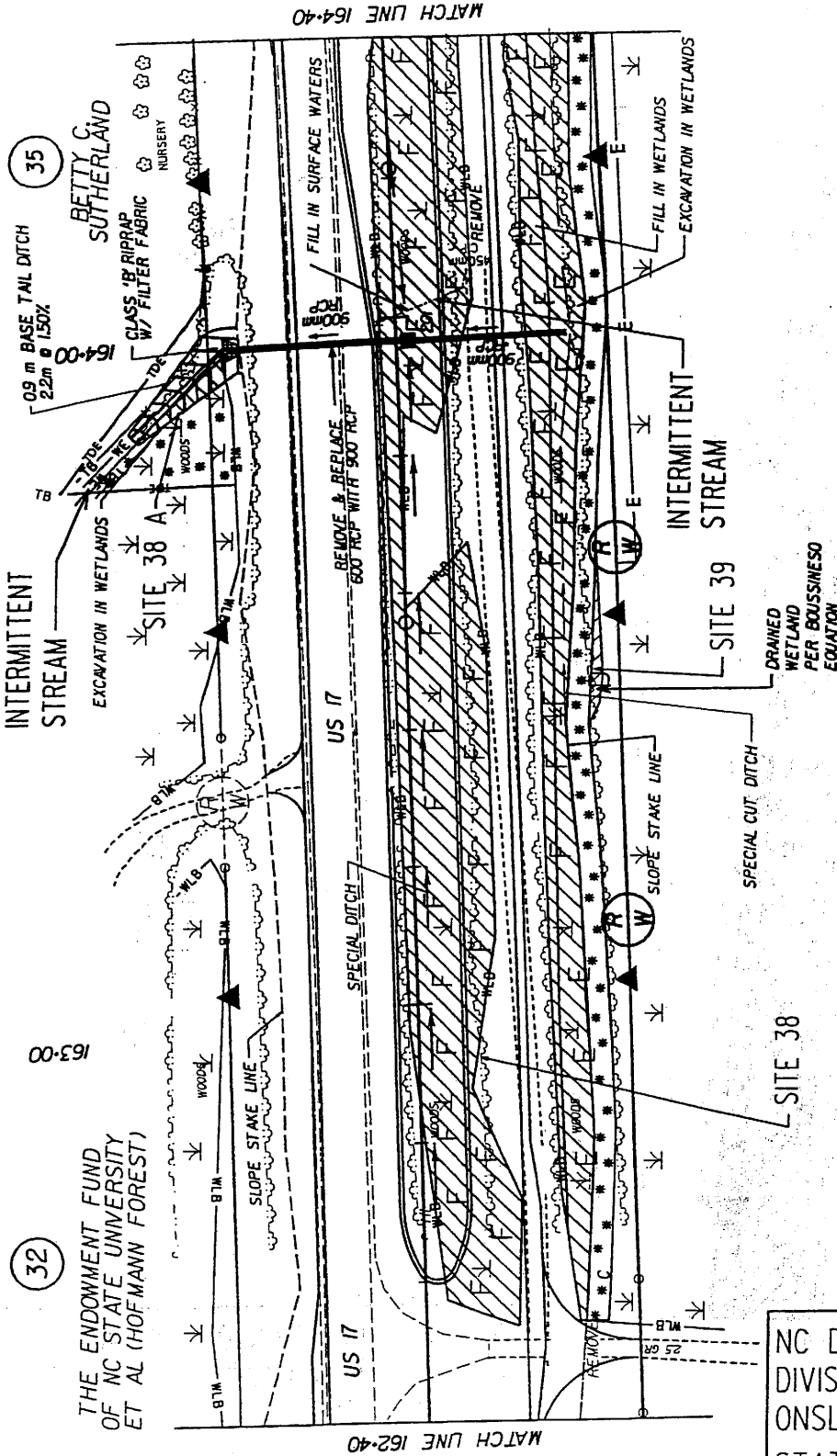


NC DEPT. OF TRANSPORTATION
 DIVISION OF HIGHWAYS
 ONSLOW COUNTY
 STATE PROJ: 8.T190301 (R-2514A)
 US 17 NORTH OF JACKSONVILLE FROM
 SR 1327 TO SR 1330/1439
 SCALE AS SHOWN
 SHEET 47 OF 81 DATE 7/14/03



CROSS SECTION

NC DEPT. OF TRANSPORTATION
 DIVISION OF HIGHWAYS
 ONSLOW COUNTY
 STATE PROJ: 8.T19030I (R-2514A)
 US 17 NORTH OF JACKSONVILLE FROM
 SR 1327 TO SR 1330/1439
 SCALE AS SHOWN
 SHEET 48 OF 81 DATE 7/14/03



33
GREAT EASTERN
TIMBER CO. LLC

| | |
|---|-----------------|
| DRAINED WETLAND PER BOUSSINESQ EQUATION | |
| SITE 39 | 23.4 SO. METERS |

PLAN VIEW
SITE 38, 38A & 39

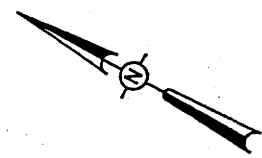
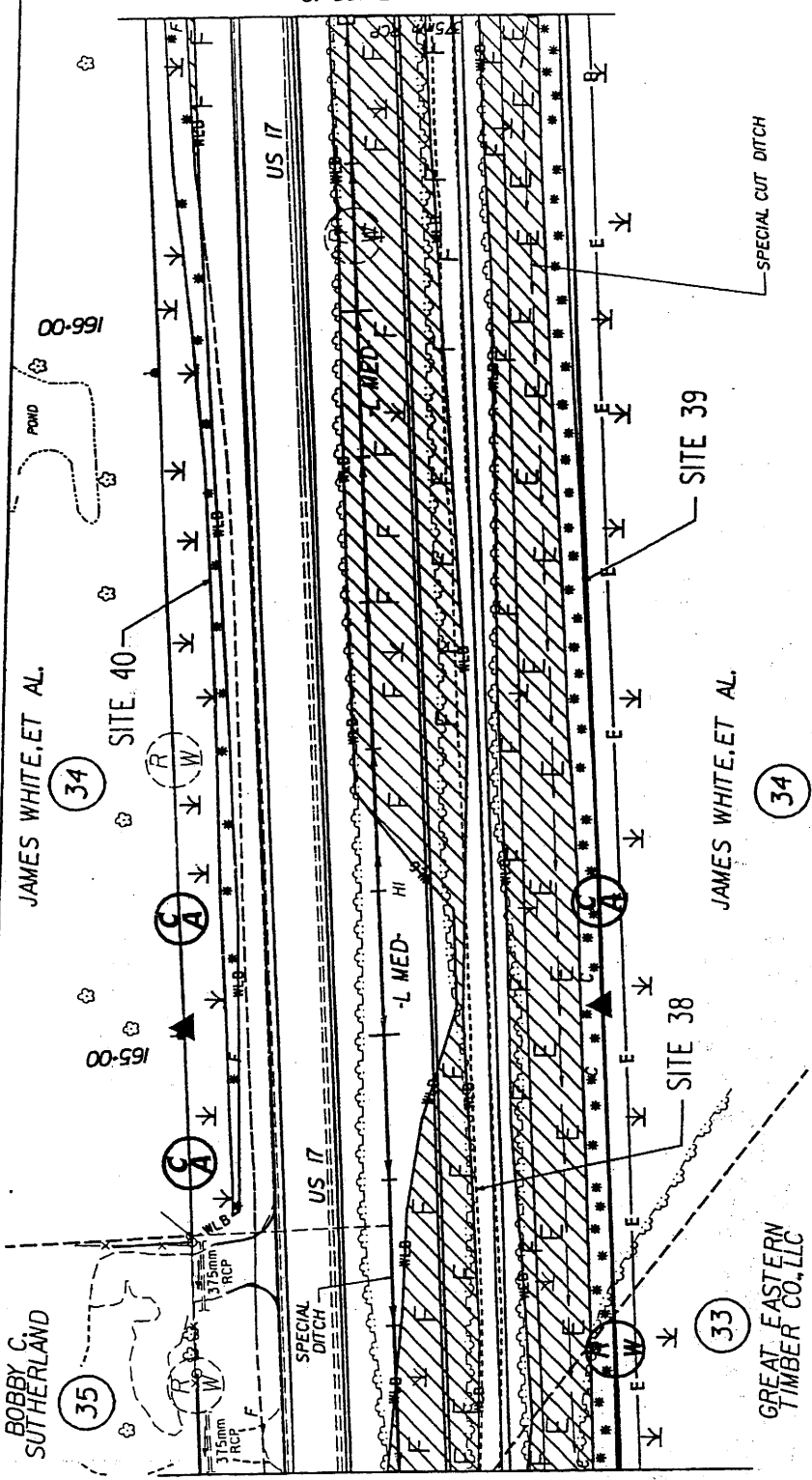
NC DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS
ONSLOW COUNTY
STATE PROJ: 8.T19030I (R-2514A)
US 17 NORTH OF JACKSONVILLE FROM
SR 1327 TO SR 1330/1439
SCALE AS SHOWN
SHEET 49 OF 81 DATE 9/03/03

32
THE ENDOWMENT FUND
OF NC STATE UNIVERSITY
ET AL (HOFMANN FOREST)

35
BETTY C
SUTHERLAND
CLASS 'B' RIPRAP
W/ FILTER FABRIC
NURSERY

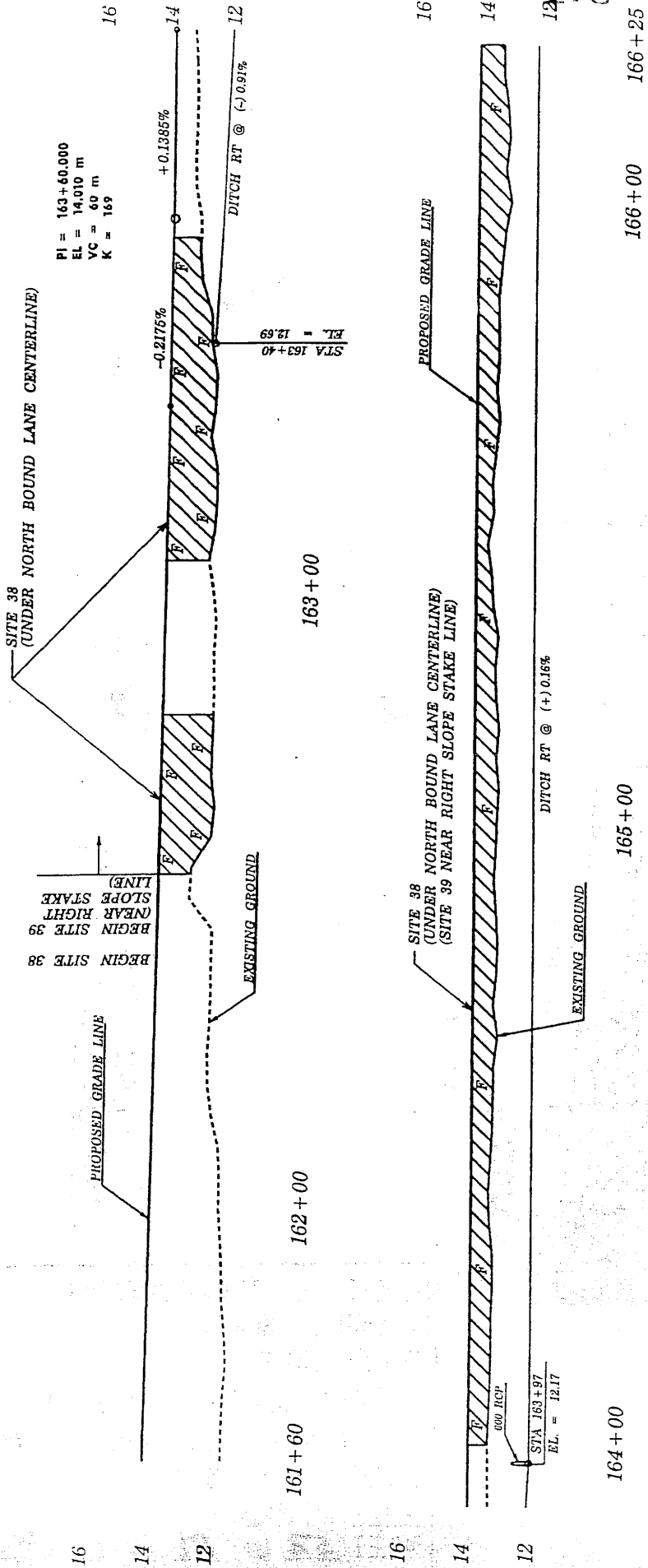
MATCH LINE 166-40

MATCH LINE 164-40

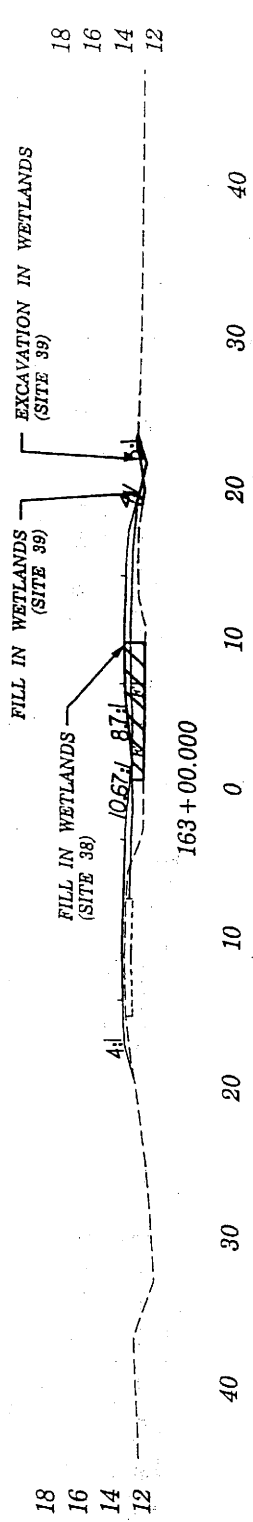
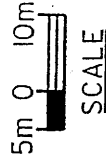


PLAN VIEW
 SITE 38, 39 & 40

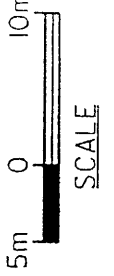
NC DEPT. OF TRANSPORTATION
 DIVISION OF HIGHWAYS
 ONSLOW COUNTY
 STATE PROJ: 8.T190301 (R-2514A)
 US 17 NORTH OF JACKSONVILLE FROM
 SR 1327 TO SR 1330/1439
 SCALE AS SHOWN
 SHEET 50 OF 81 DATE 7/14/03



PROFILE VIEW
SITE 38 & 39

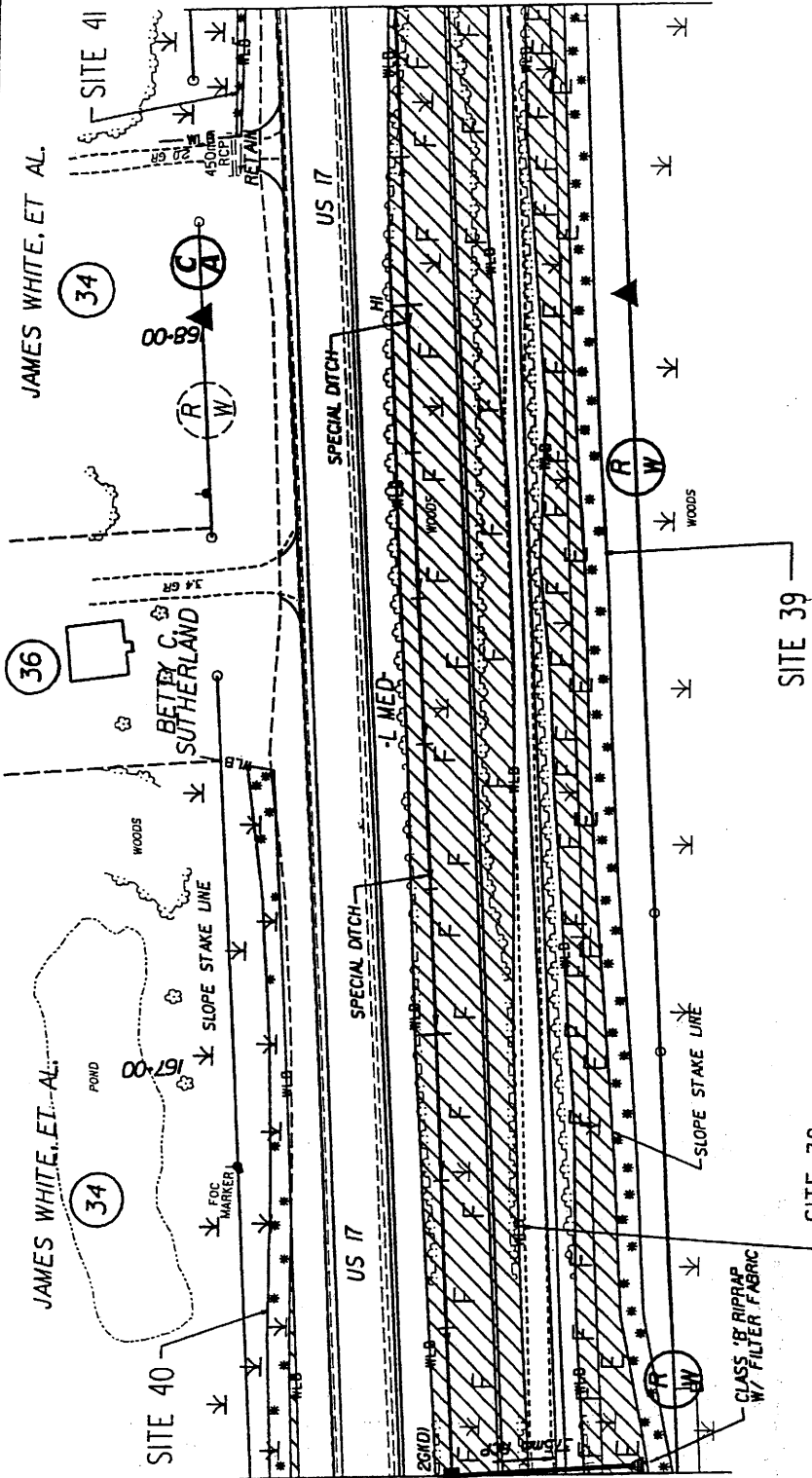


CROSS SECTION



NC DEPT. OF TRANSPORTATION
 DIVISION OF HIGHWAYS
 ONSLOW COUNTY
 STATE PROJ: 8.T190301 (R-2514A)
 US 17 NORTH OF JACKSONVILLE FROM
 SR 1327 TO SR 1330/1439
 SCALE AS SHOWN
 SHEET 51 OF 81 DATE 7/14/03

MATCH LINE 168-40



JAMES WHITE, ET AL.

36

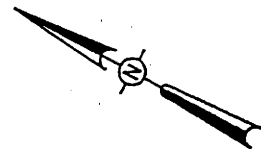
34

34

34

JAMES WHITE, ET AL.

34



PLAN VIEW
 SITE 38, 39, 40 & 41

NC DEPT. OF TRANSPORTATION
 DIVISION OF HIGHWAYS
 ONSLOW COUNTY
 STATE PROJ: 8.T190301 (R-2514A)
 US 17 NORTH OF JACKSONVILLE FROM
 SR 1327 TO SR 1330/1439
 SCALE AS SHOWN
 SHEET 52 OF 81 DATE 7/14/03

MATCH LINE 166-40

18

16

14

12

168+55

168+00

167+00

166+25

18

16

14

12

170+00

169+00

168+55

PI = 167+60.000
EL = 14.564 m
VC = 60 m
K = 184

SITE 38
(UNDER NORTH BOUND LANE CENTERLINE)
(SITE 39 NEAR RIGHT SLOPE STAKE LINE)
+0.1386%

PROPOSED GRADE LINE

-0.1882%

EXISTING GROUND

END SITE 39

SITE 38
(UNDER NORTH BOUND LANE CENTERLINE)
(SITE 39 NEAR RIGHT SLOPE STAKE LINE)

PROPOSED GRADE LINE

EXISTING GROUND

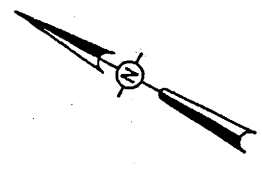
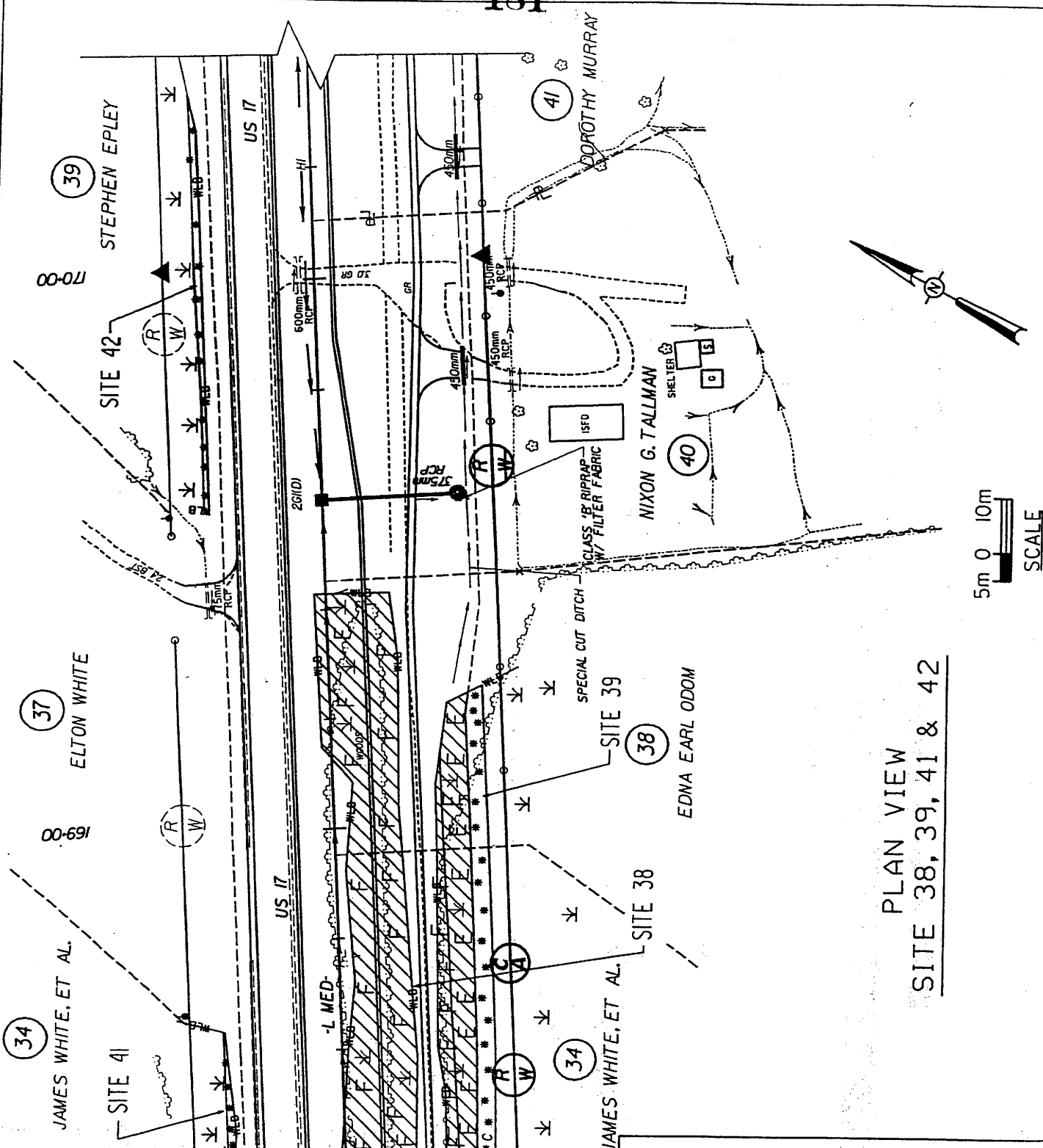
DITCH RT @ (-1.020%)

STA 169+25
EL. = 12.48



PROFILE VIEW
SITE 38 & 39

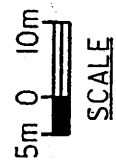
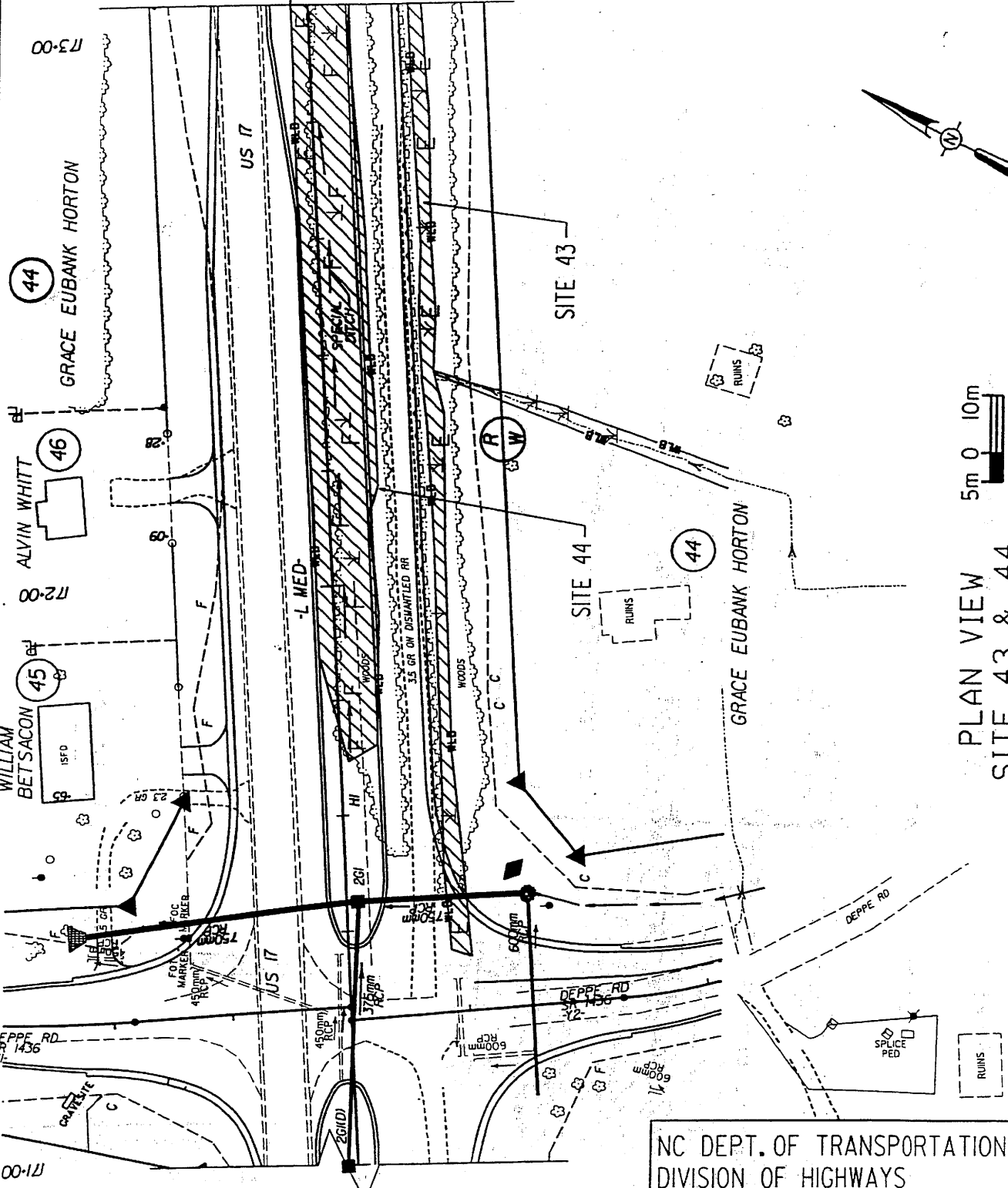
NC DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS
ONSLow COUNTY
STATE PROJ: 8.T190301 (R-2514A)
US 17 NORTH OF JACKSONVILLE FROM
SR 1327 TO SR 1330/1439
SCALE AS SHOWN
SHEET 53 OF 81 DATE 7/14/03



PLAN VIEW
SITE 38, 39, 41 & 42

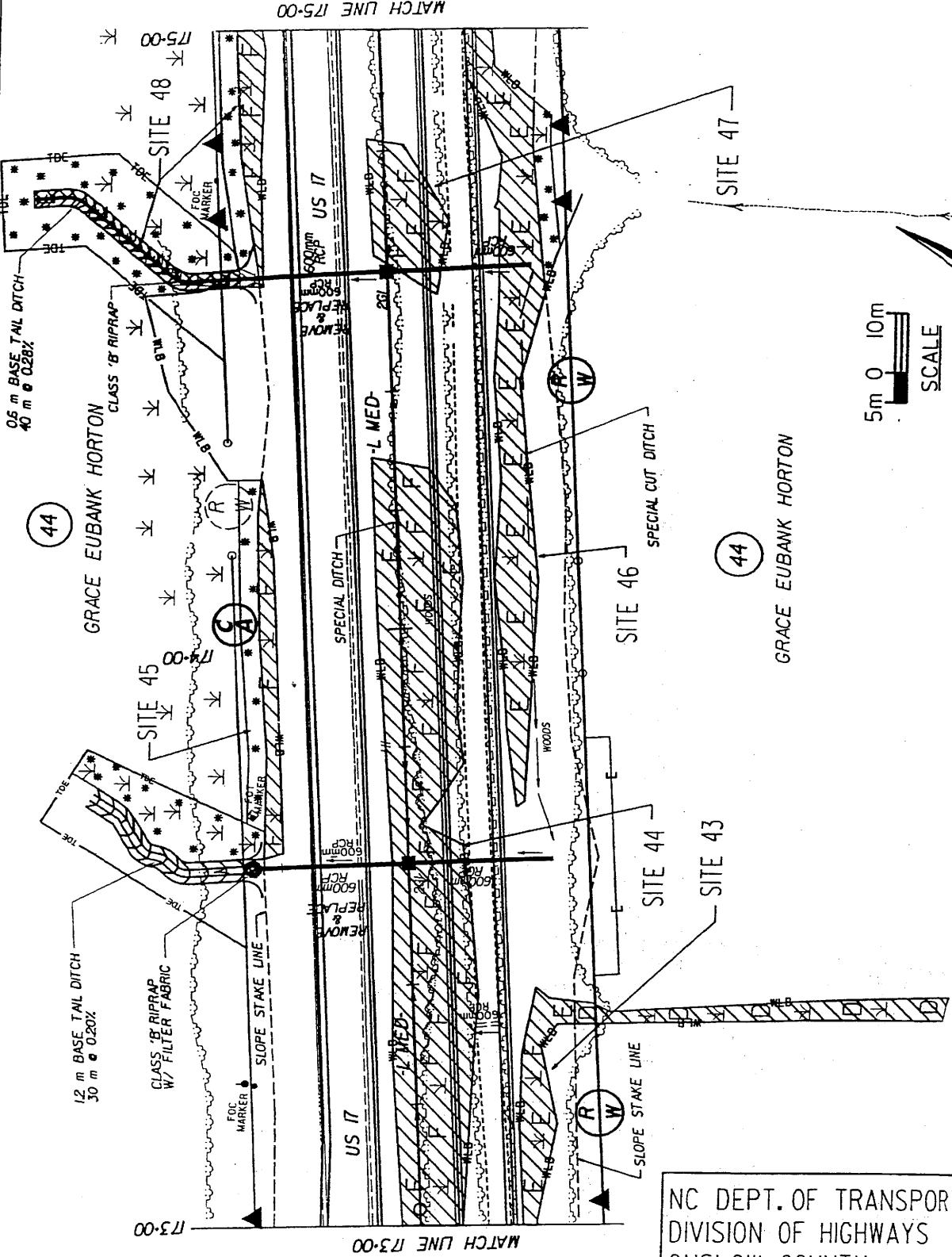
NC DEPT. OF TRANSPORTATION
 DIVISION OF HIGHWAYS
 ONSLOW COUNTY
 STATE PROJ: 8.T19030I (R-2514A)
 US 17 NORTH OF JACKSONVILLE FROM
 SR 1327 TO SR 1330/1439
 SCALE AS SHOWN
 SHEET 54 OF 81 DATE 7/14/03

MATCH LINE 173-00



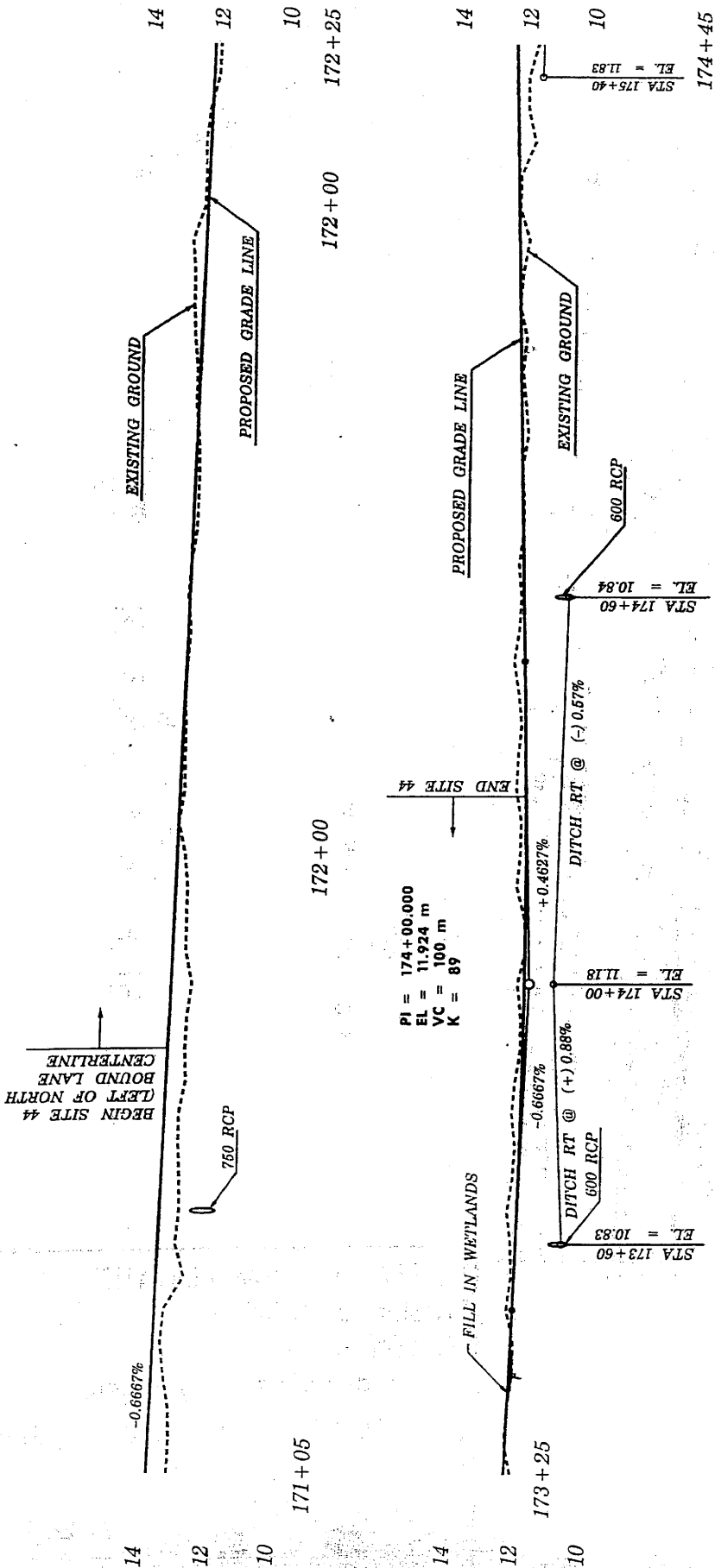
PLAN VIEW
SITE 43 & 44

NC DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS
ONSLOW COUNTY
STATE PROJ: 8.T190301 (R-2514A)
US 17 NORTH OF JACKSONVILLE FROM
SR 1327 TO SR 1330/1439
SCALE AS SHOWN
SHEET 55 OF 81 DATE 7/14/03

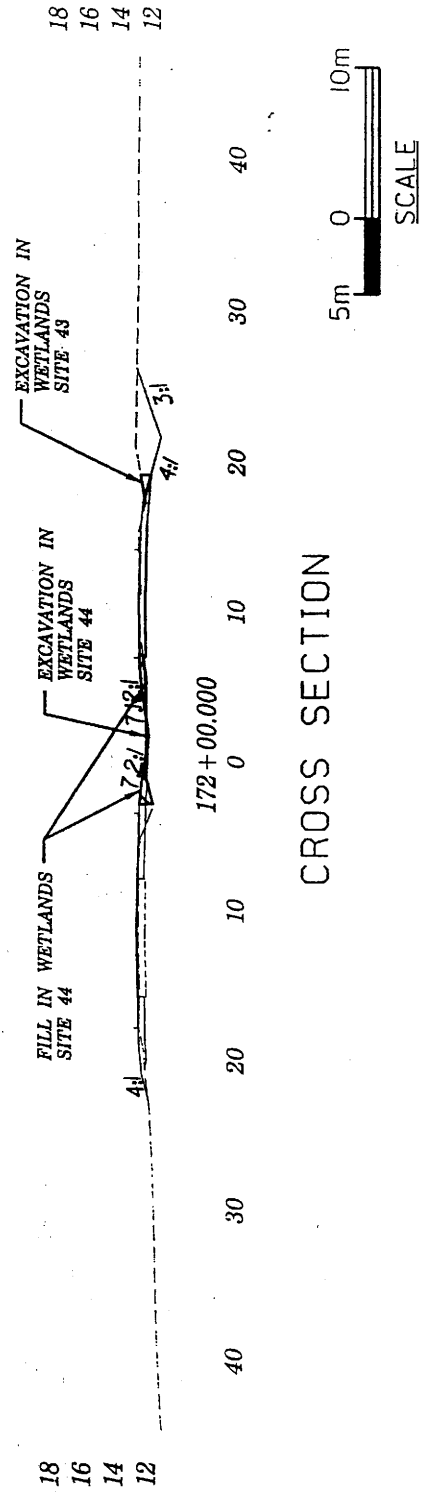


PLAN VIEW
 SITE 43, 44, 45, 46, 47, & 48

NC DEPT. OF TRANSPORTATION
 DIVISION OF HIGHWAYS
 ONSLOW COUNTY
 STATE PROJ: 8.T190301 (R-2514A)
 US 17 NORTH OF JACKSONVILLE FROM
 SR 1327 TO SR 1330/1439
 SCALE AS SHOWN
 SHEET 56 OF 81 DATE 7/14/03

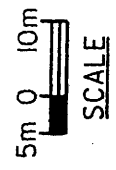
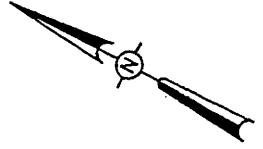
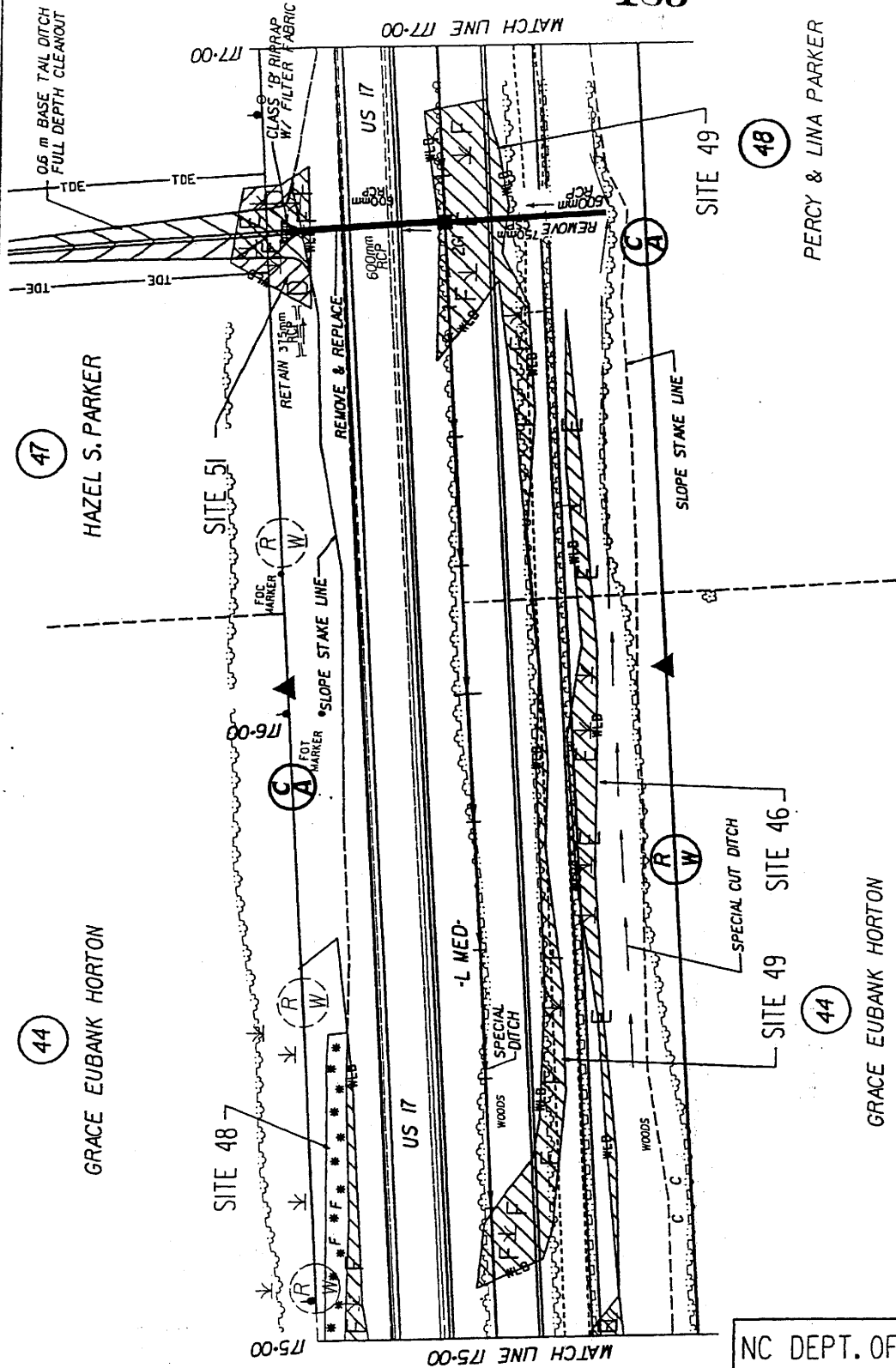


PROFILE VIEW
SITE 44



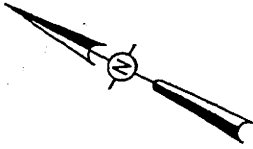
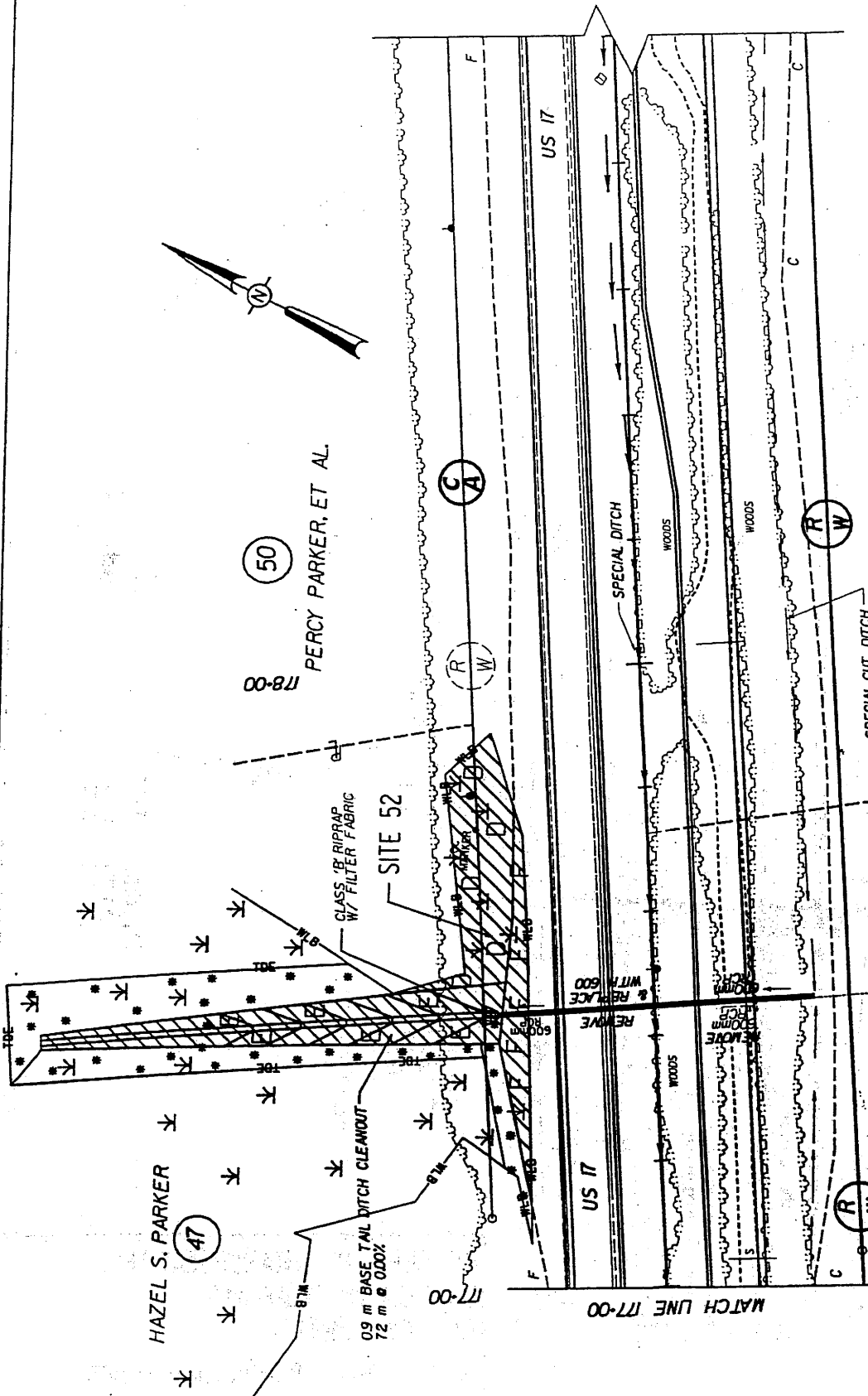
CROSS SECTION

NC DEPT. OF TRANSPORTATION
 DIVISION OF HIGHWAYS
 ONSLOW COUNTY
 STATE PROJ: 8.T19030I (R-2514A)
 US 17 NORTH OF JACKSONVILLE FROM
 SR 1327 TO SR 1330/1439
 SCALE AS SHOWN
 SHEET 57 OF 81 DATE 8/19/03



PLAN VIEW
SITE 46, 48, 49, & 51

NC DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS
ONSLow COUNTY
STATE PROJ: 8.T190301 (R-2514A)
US 17 NORTH OF JACKSONVILLE FROM
SR 1327 TO SR 1330/1439
SCALE AS SHOWN
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PLAN VIEW
SITE 52

NC DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS
ONSLOW COUNTY
STATE PROJ: 8.T190301 (R-2514A)
US 17 NORTH OF JACKSONVILLE FROM
SR 1327 TO SR 1330/1439
SCALE AS SHOWN
SHEET 59 OF 81 DATE 7/14/03

178-00 PERCY PARKER, ET AL (50)

HAZEL S. PARKER (49)

PERCY PARKER, ET AL (48)

HAZEL S. PARKER (47)

SITE 52

REPLACE WITH 600

US 17

MATCH LINE I77-00

SPECIAL DITCH

WOODS

WOODS

SPECIAL CUT DITCH

(R/W)

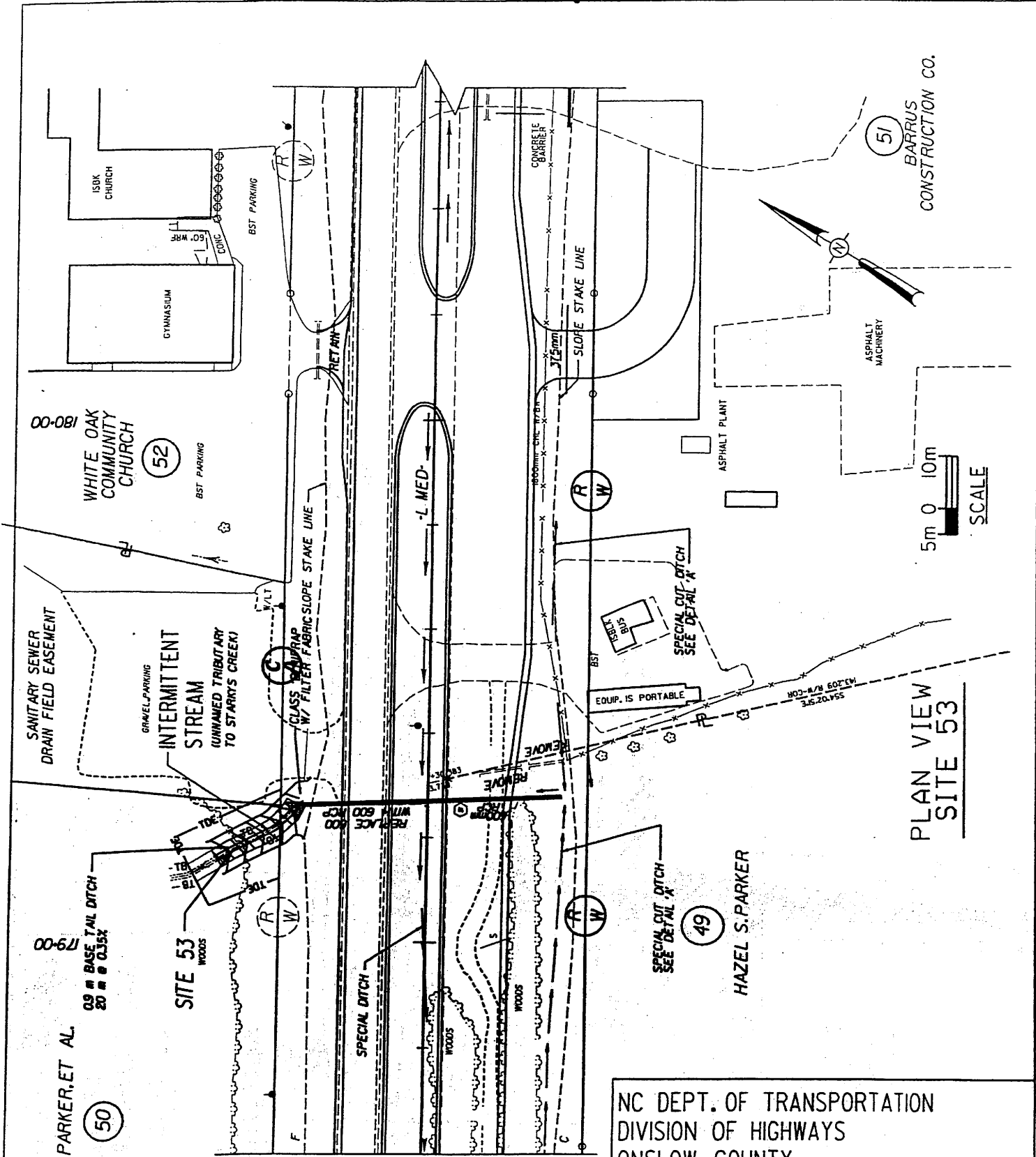
(C/A)

(R/W)

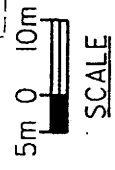
I77-00

0.9 m BASE TAIL DITCH CLEANOUT
72 m @ 0.00%

CLASS. B. RIPRAP
W/ FILTER FABRIC

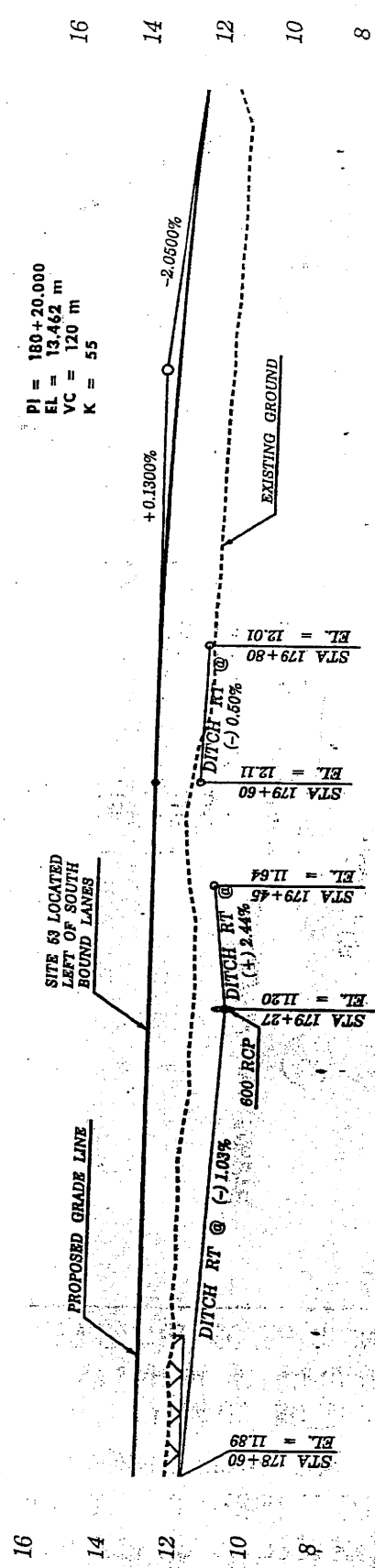


BARRUS CONSTRUCTION CO.



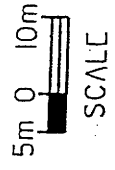
PLAN VIEW
SITE 53

NC DEPT. OF TRANSPORTATION
 DIVISION OF HIGHWAYS
 ONSLOW COUNTY
 STATE PROJ: 8.T190301 (R-2514A)
 US 17 NORTH OF JACKSONVILLE FROM
 SR 1327 TO SR 1330/1439
 SCALE AS SHOWN
 SHEET 60 OF 81 DATE 7/14/03



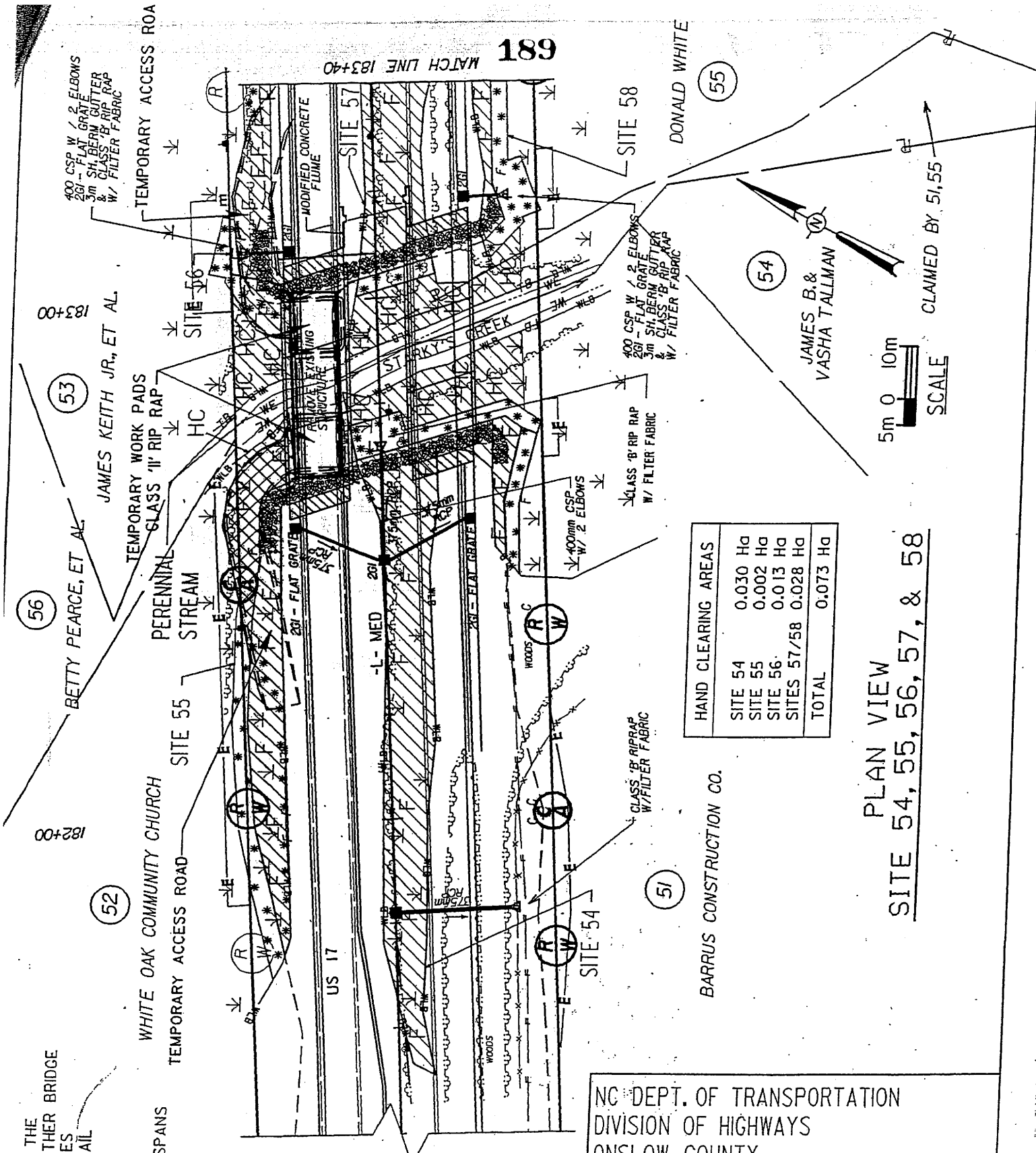
179+00
180+00

PROFILE VIEW
SITE 53



NC DEPT. OF TRANSPORTATION
 DIVISION OF HIGHWAYS
 ONSLOW COUNTY
 STATE PROJ: 8.T190301 (R-2514A)
 US 17 NORTH OF JACKSONVILLE FROM
 SR 1327 TO SR 1330/1439
 SCALE AS SHOWN
 SHEET 61 OF 81 DATE 7/14/03

DECK DRAINS:
 NO DECK DRAINS IN THE
 CENTER SPAN OF EITHER BRIDGE
 USE 102mm DIA PIPES
 THROUGH BARRIER RAIL
 AT 1.8m CNTS
 ON BOTH SIDES
 OF EACH BRIDGE
 ONLY ON THE END SPANS



| HAND CLEARING AREAS | |
|---------------------|----------|
| SITE 54 | 0.030 Hq |
| SITE 55 | 0.002 Hq |
| SITE 56 | 0.013 Hq |
| SITES 57/58 | 0.028 Hq |
| TOTAL | 0.073 Hq |

PLAN VIEW
 SITE 54, 55, 56, 57, & 58

NC DEPT. OF TRANSPORTATION
 DIVISION OF HIGHWAYS
 ONSLOW COUNTY
 STATE PROJ: 8.T19030I (R-2514A)
 US 17 NORTH OF JACKSONVILLE FROM
 SR 1327 TO SR 1330/1439
 SCALE AS SHOWN
 SHEET 62 OF 81 DATE 04/01/04

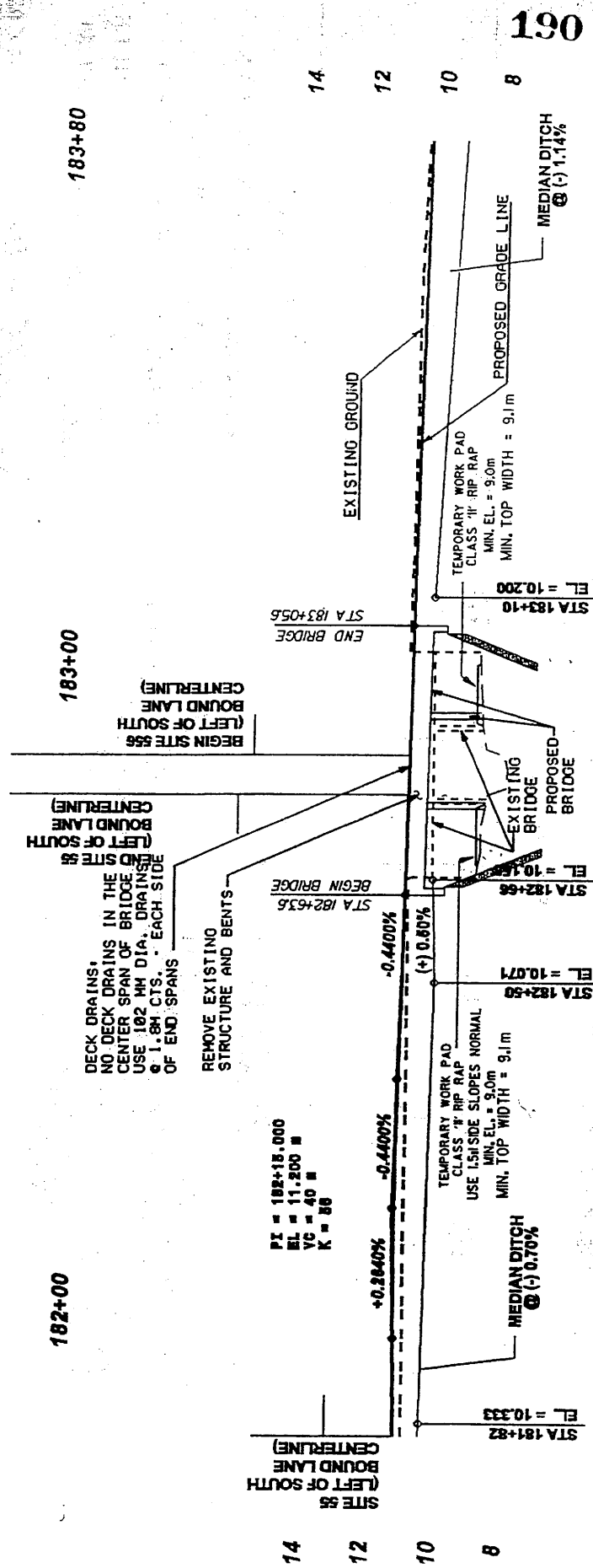
BARRUS CONSTRUCTION CO.

JAMES B. &
 VASHA TALLMAN

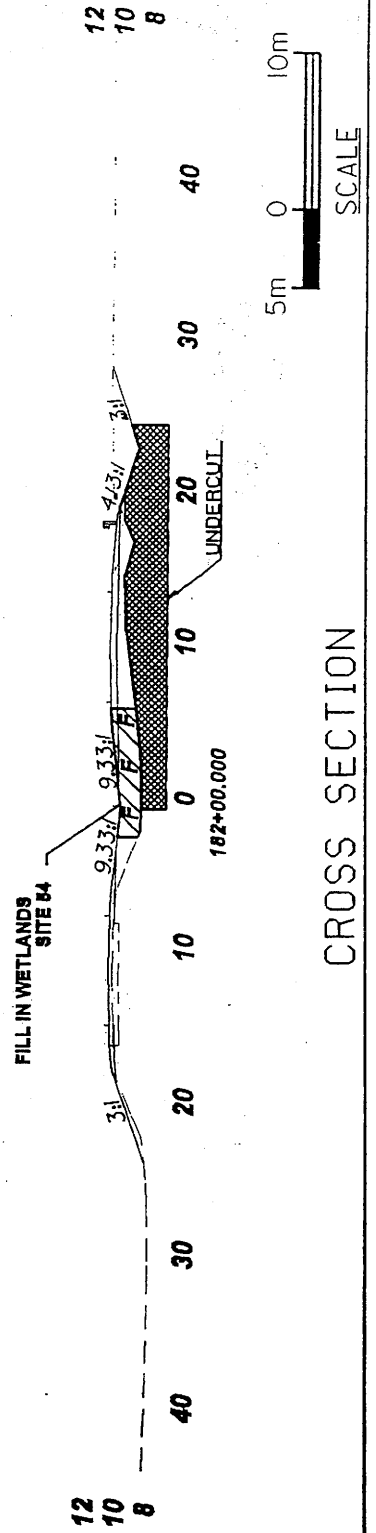
5m 0 10m
 SCALE

CLAIMED BY 51,55

MATCH LINE 183+40 189



PROFILE VIEW ALONG -SBL- ROADWAY
SITE 54, 55, & 56



CROSS SECTION

NC DEPT. OF TRANSPORTATION
 DIVISION OF HIGHWAYS
 ONSLOW COUNTY
 STATE PROJ: 8.TI9030I (R-25I4A)
 US 17 NORTH OF JACKSONVILLE FROM
 SR 1327 TO SR 1330/1439
 SCALE AS SHOWN
 SHEET 63 OF 81 DATE 12/09/03

NOTE:
USE 1.5:1 SIDE SLOPES
FOR TEMPORARY
WORK PADS

EXISTING BRIDGE L-1

9.1m

10

TEMPORARY WORK PADS
CLASS 'II' RIP RAP

TEMPORARY ACCESS ROAD
TO WORK PADS
CLASS 'II' RIP RAP
USE 1.5:1 SIDE SLOPES

6.1m
TOP WIDTH

9.08

102.410

9.4

8.861

8.2

8.41

182+60.00

191

10

8

40

30

0

10

20

30

PROFILE

TEMPORARY WORK PADS
UNDER EXISTING BRIDGE AND
TEMPORARY ACCESS ROAD TO
WORK PADS

NCDOT

DIVISION OF HIGHWAYS

ONSLOW COUNTY

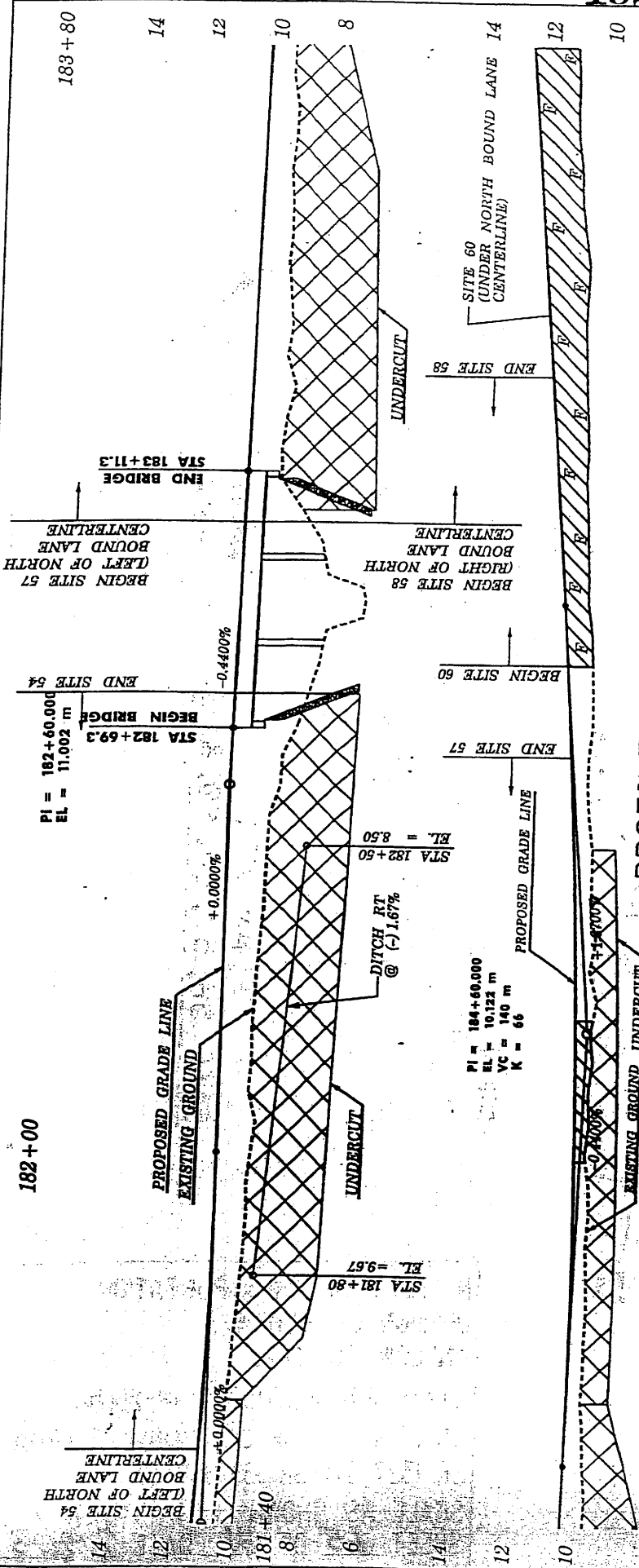
PROJECT: 8.T190301 (R-2514A)

US 17 NORTH OF JACKSONVILLE

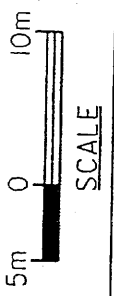
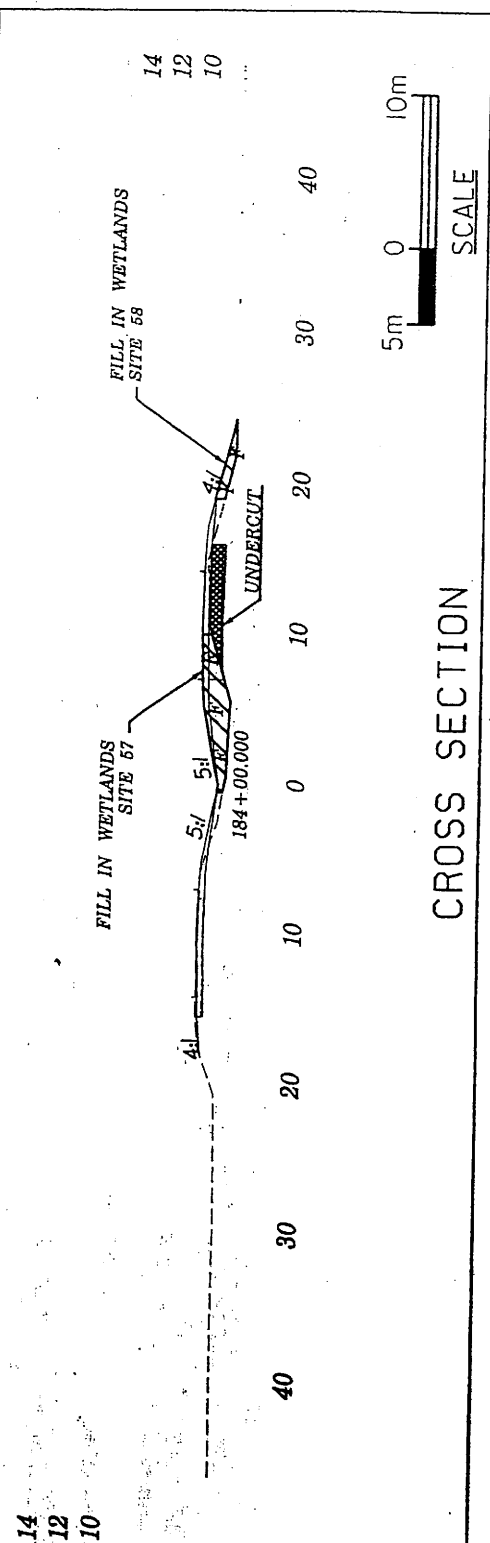
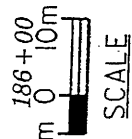
FROM SR 1327 TO SR 1330 / 1439

SHEET 63A OF 81

12 / 09 / 03



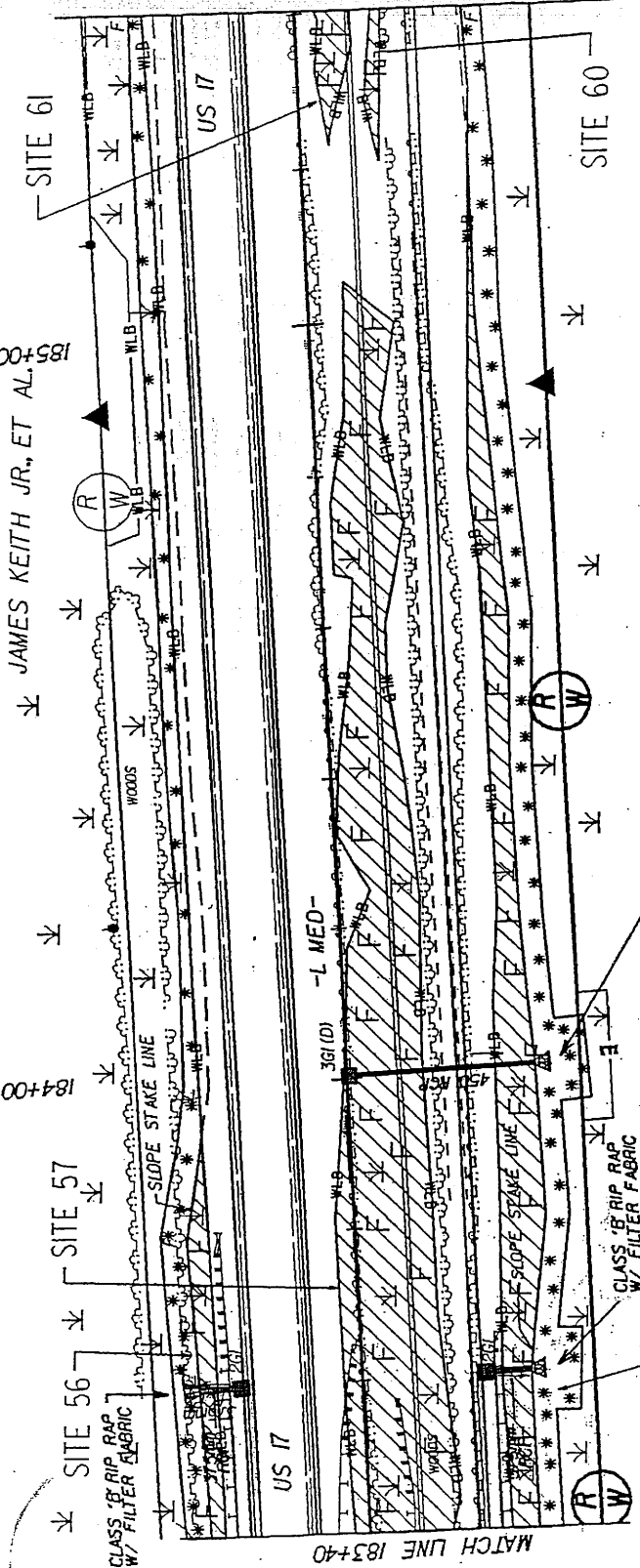
PROFILE VIEW ALONG -NBL- ROADWAY
SITE 54, 57, 58 & 60



NC DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS
ONSLOW COUNTY
STATE PROJ: 8.T190301 (R-2514A)
US 17 NORTH OF JACKSONVILLE FROM
SR 1327 TO SR 1330/1439
SCALE AS SHOWN
SHEET 64 OF 81 DATE 8/19/63

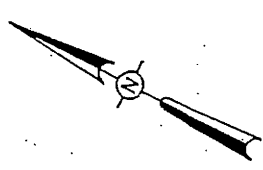
(53)

JAMES KEITH JR., ET AL. 185+00



(55)

DONALD WHITE



PLAN VIEW
 SITE 56, 57, 58, 60, & 61

NC DEPT. OF TRANSPORTATION
 DIVISION OF HIGHWAYS
 ONSLOW COUNTY
 STATE PROJ: 8.T190301 (R-2514A)
 US 17 NORTH OF JACKSONVILLE FROM
 SR 1327 TO SR 1330/1439
 SCALE AS SHOWN
 SHEET 65 OF 81 DATE 04/01/04

MATCH LINE 187-40

56

BETTY PEARCE, ET AL.

187-00



SLOPE STAKE LINE

SPECIAL CUT DITCH

FOC MARKER

US 17

SPECIAL DITCH

-L MED-

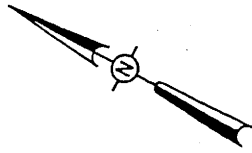
WOODS

32 GR ON DISMANTLED RR

WOODS

SLOPE STAKE LINE

SPECIAL CUT DITCH



55

DONALD WHITE

SITE 62

SITE 60



PLAN VIEW
SITE 56, 58, 60, 61, 62 & 63

53

JAMES KEITH JR., ET AL.

186-00

450mm

FOC MARKER F

450mm

FOC MARKER F

TYPICAL MEDIAN DITCH

-L MED-

WOODS

32 GR ON DISMANTLED RR

WOODS

SITE 63

SITE 62

SITE 58

MATCH LINE 185-40

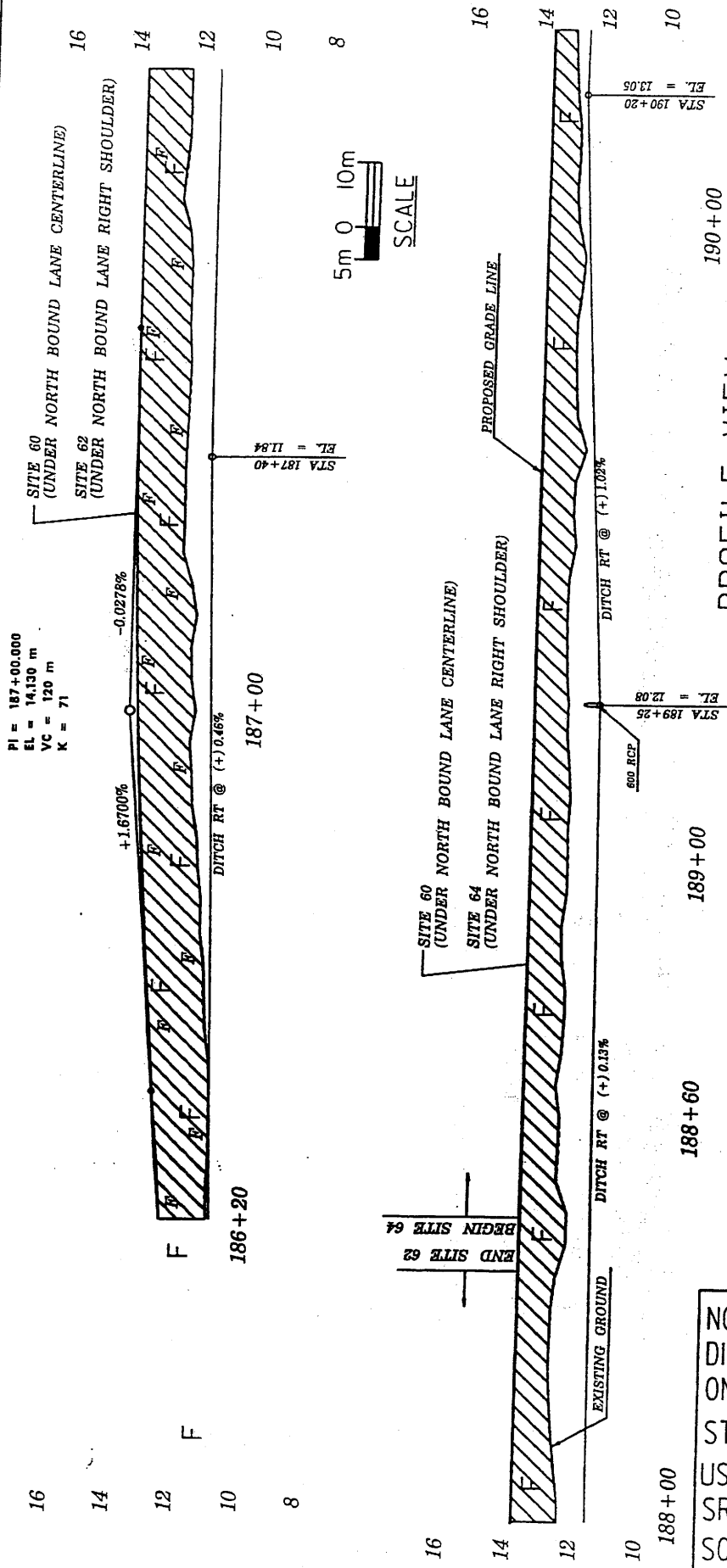
SITE 56

SITE 61

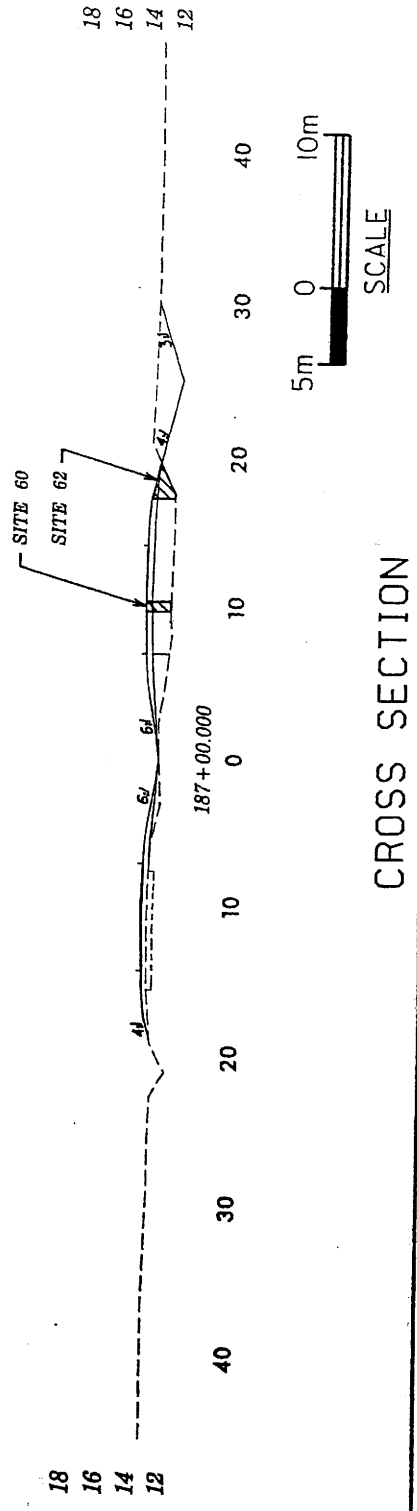
NC DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS
ONSLow COUNTY

STATE PROJ: 8.T190301 (R-2514A)
US 17 NORTH OF JACKSONVILLE FROM
SR 1327 TO SR 1330/1439

SCALE AS SHOWN
SHEET 66 OF 81 DATE 7/14/03

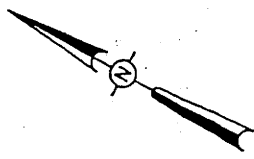
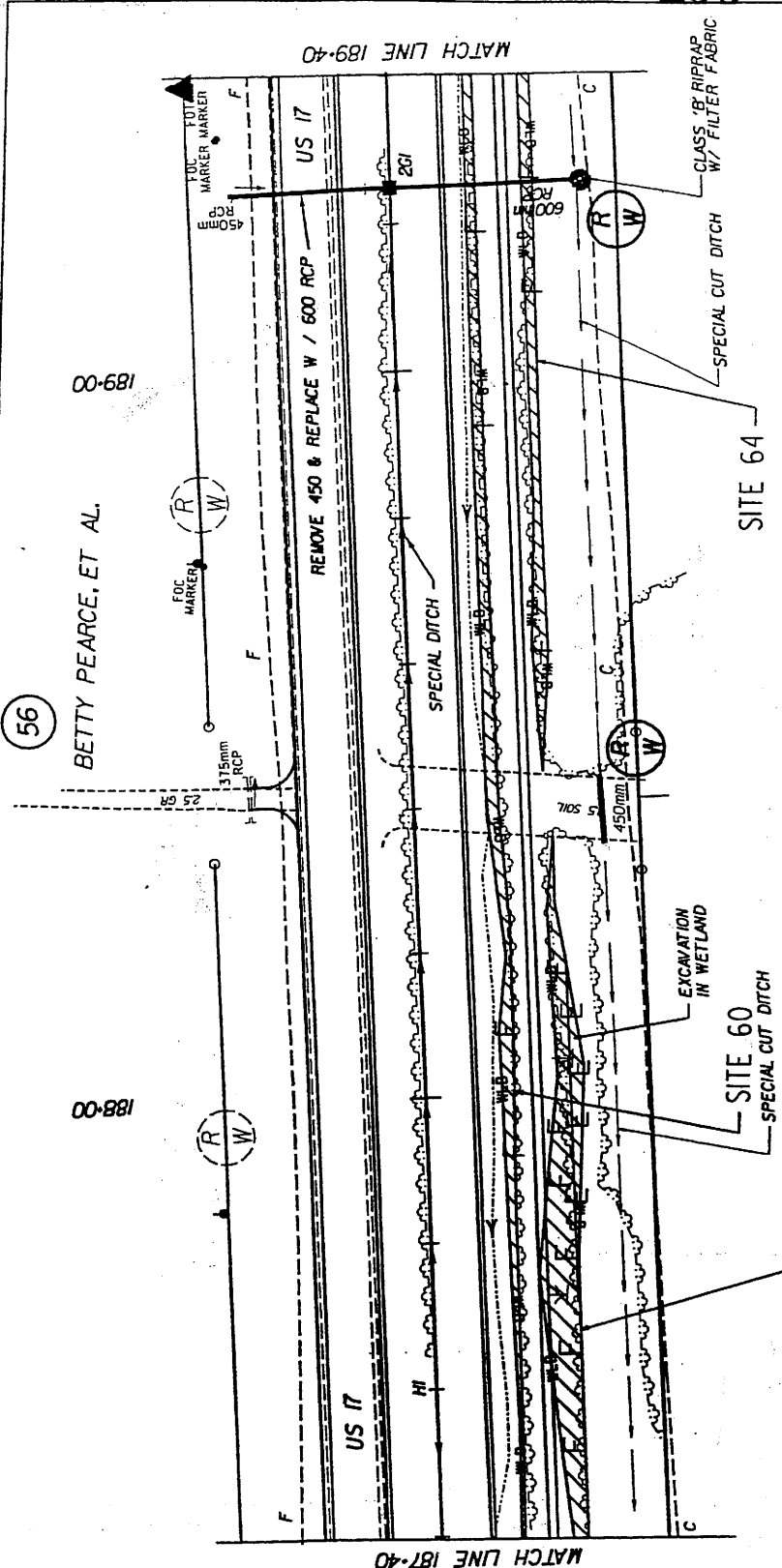


PROFILE VIEW
SITE 60, 62 & 64



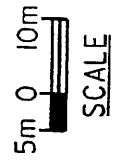
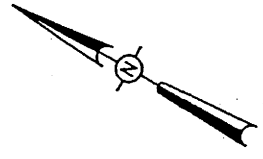
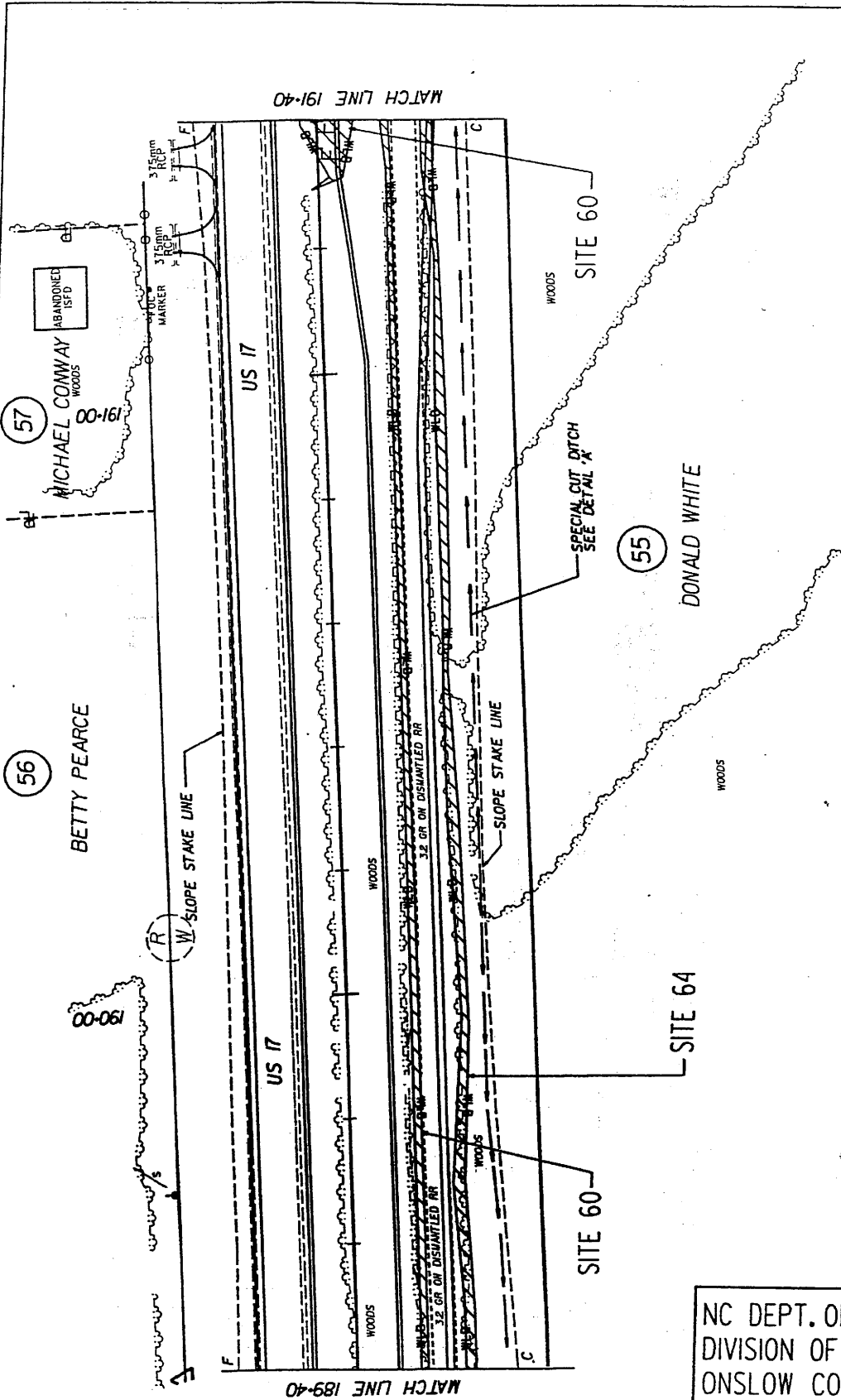
CROSS SECTION

NC DEPT. OF TRANSPORTATION
 DIVISION OF HIGHWAYS
 ONSLOW COUNTY
 STATE PROJ: 8.T190301 (R-2514A)
 US 17 NORTH OF JACKSONVILLE FROM
 SR 1327 TO SR 1330/1439
 SCALE AS SHOWN
 SHEET 67 OF 81 DATE 7/14/03



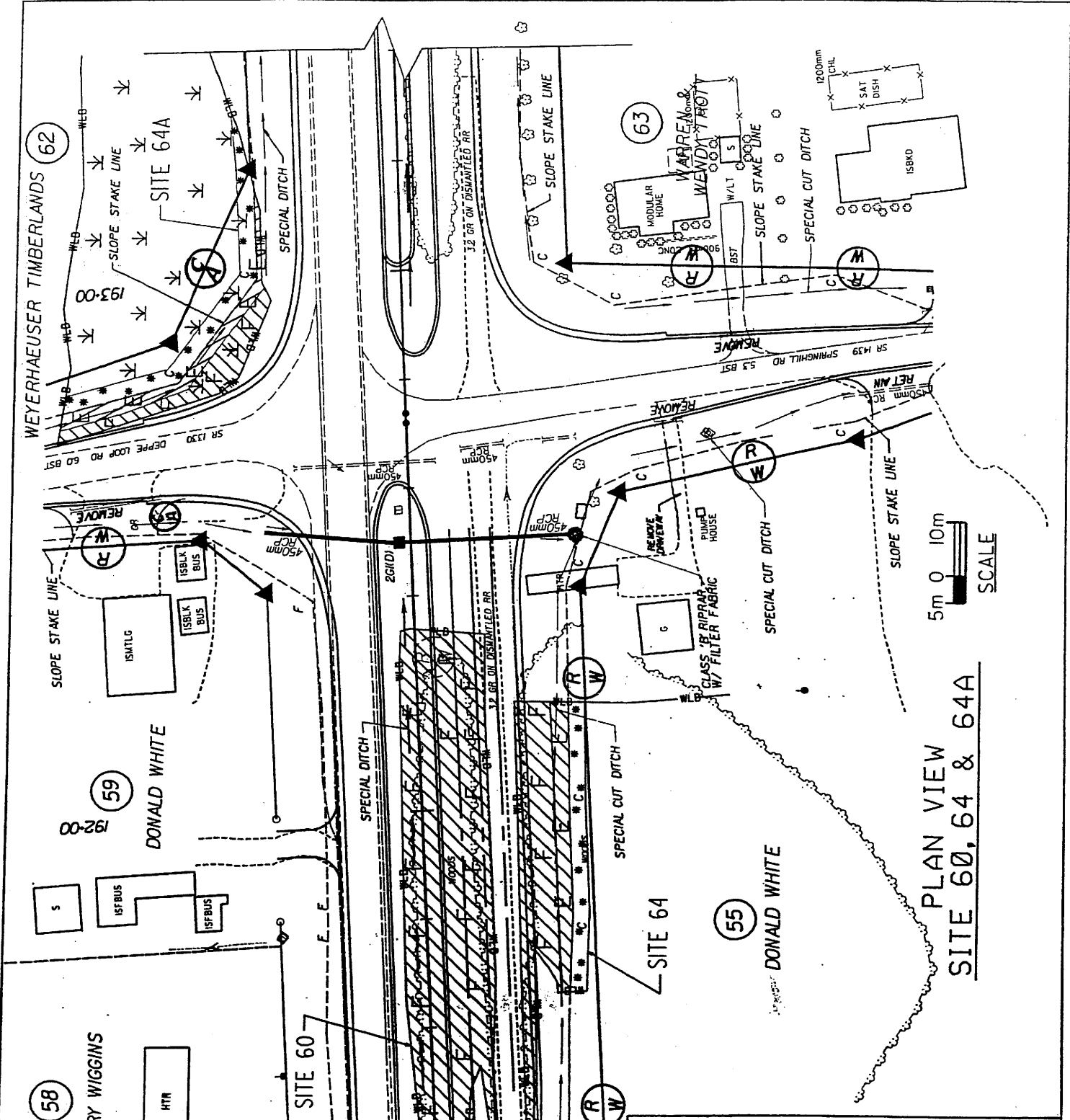
PLAN VIEW
 SITE 60, 62, & 64
 SCALE

NC DEPT. OF TRANSPORTATION
 DIVISION OF HIGHWAYS
 ONSLOW COUNTY
 STATE PROJ: 8.T190301 (R-2514A)
 US 17 NORTH OF JACKSONVILLE FROM
 SR 1327 TO SR 1330/1439
 SCALE AS SHOWN
 SHEET 68 OF 81 DATE 7/14/03



PLAN VIEW
SITE 60 & 64

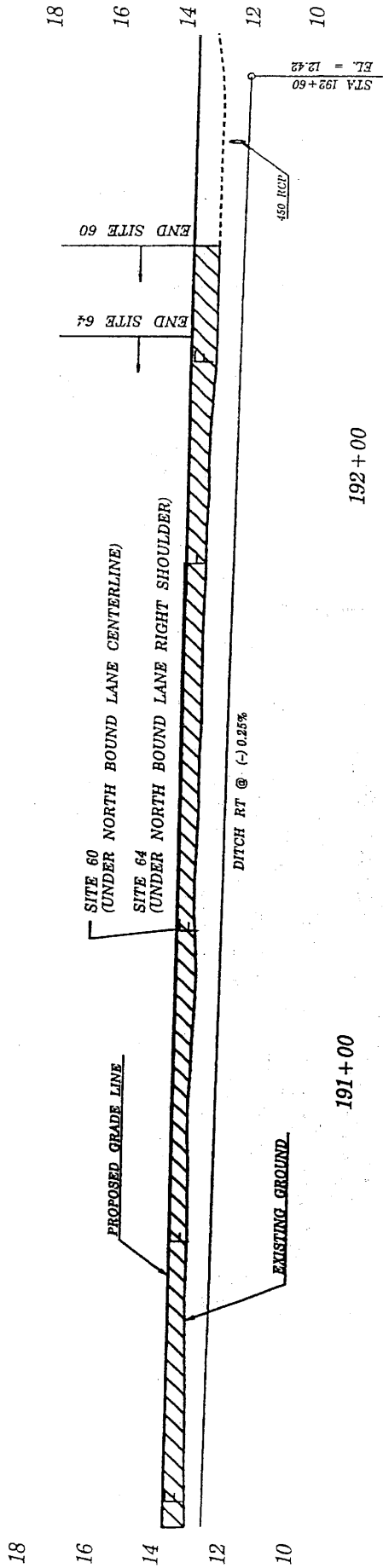
NC DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS
ONSLOW COUNTY
STATE PROJ: 8.T190301 (R-2514A)
US 17 NORTH OF JACKSONVILLE FROM
SR 1327 TO SR 1330/1439
SCALE AS SHOWN
SHEET 69 OF 81 DATE 7/14/03



5m 0 10m
SCALE

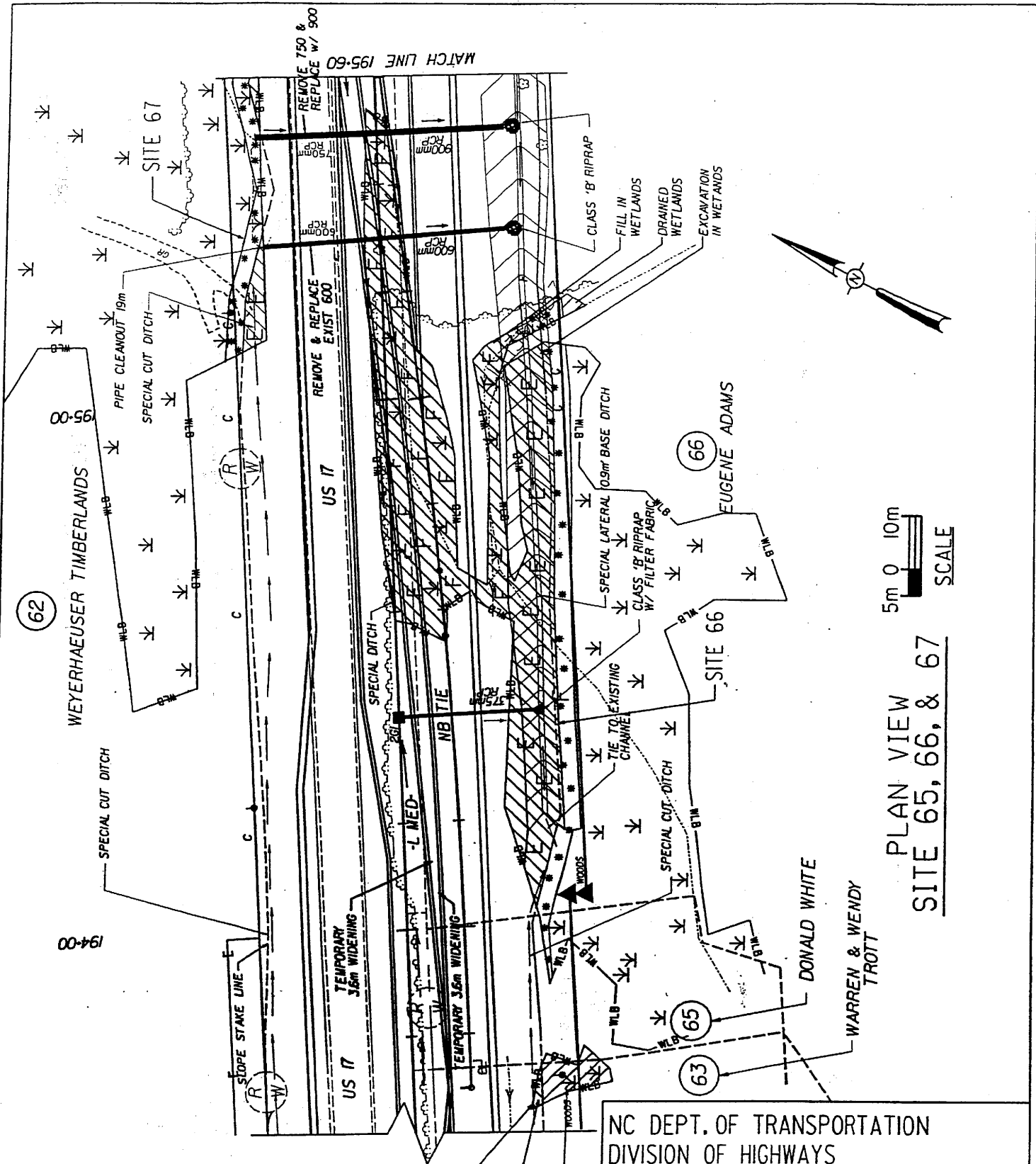
PLAN VIEW
SITE 60, 64 & 64A

NC DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS
ONSLow COUNTY
STATE PROJ: 8.T19030I (R-2514A)
US 17 NORTH OF JACKSONVILLE FROM
SR 1327 TO SR 1330/1439
SCALE AS SHOWN
SHEET 70 OF 81 DATE 9/30/03



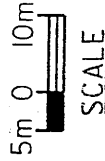
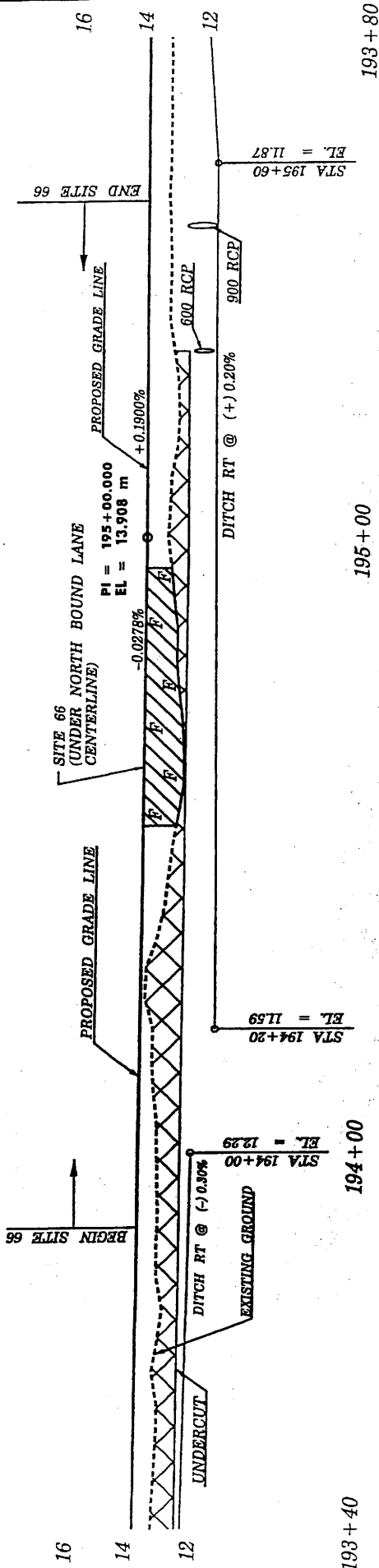
PROFILE VIEW
SITE 62 & 64

NC DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS
ONSLOW COUNTY
STATE PROJ: 8.T190301 (R-2514A)
US 17 NORTH OF JACKSONVILLE FROM
SR 1327 TO SR 1330/1439
SCALE AS SHOWN
SHEET 71 OF 81 DATE 7/14/03

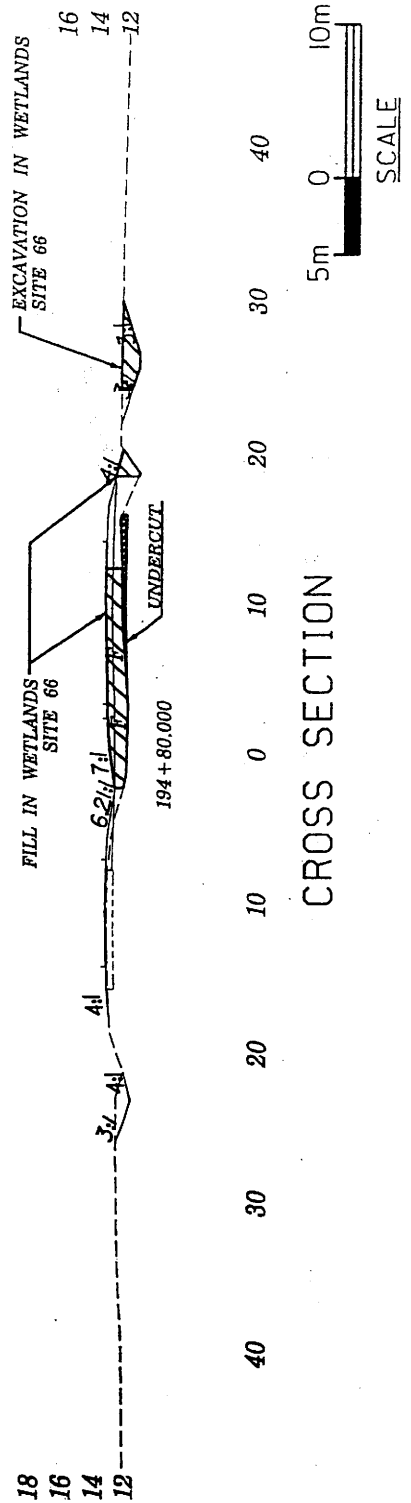


PLAN VIEW
 SITE 65, 66, & 67

NC DEPT. OF TRANSPORTATION
 DIVISION OF HIGHWAYS
 ONSLOW COUNTY
 STATE PROJ: 8.T190301 (R-2514A)
 US 17 NORTH OF JACKSONVILLE FROM
 SR 1327 TO SR 1330/1439
 SCALE AS SHOWN
 SHEET 72 OF 81 DATE 9/30/03



SITE 66



NC DEPT. OF TRANSPORTATION
 DIVISION OF HIGHWAYS
 ONSLOW COUNTY
 STATE PROJ: 8.T190301 (R-2514A)
 US 17 NORTH OF JACKSONVILLE FROM
 SR 1327 TO SR 1330/1439
 SCALE AS SHOWN
 SHEET 73 OF 81 DATE 7/14/03

197-00

62

WEYERHAEUSER TIMBERLANDS

MATCH LINE 197+40

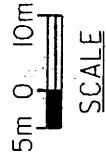
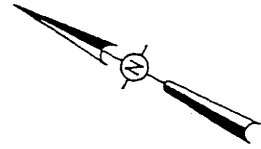
US 17

SLOPE STAKE LINE

SITE 18

62

WEYERHAEUSER TIMBERLANDS



PLAN VIEW
SITE 67 & 68

196-00

SITE 67

SLOPE STAKE LINE

MATCH LINE 195+60

NB TIE

SLOPE STAKE LINE

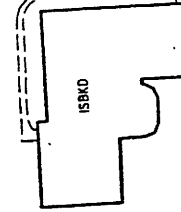
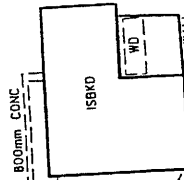
SPECIAL CUT DITCH

66

EUGENE ADAMS

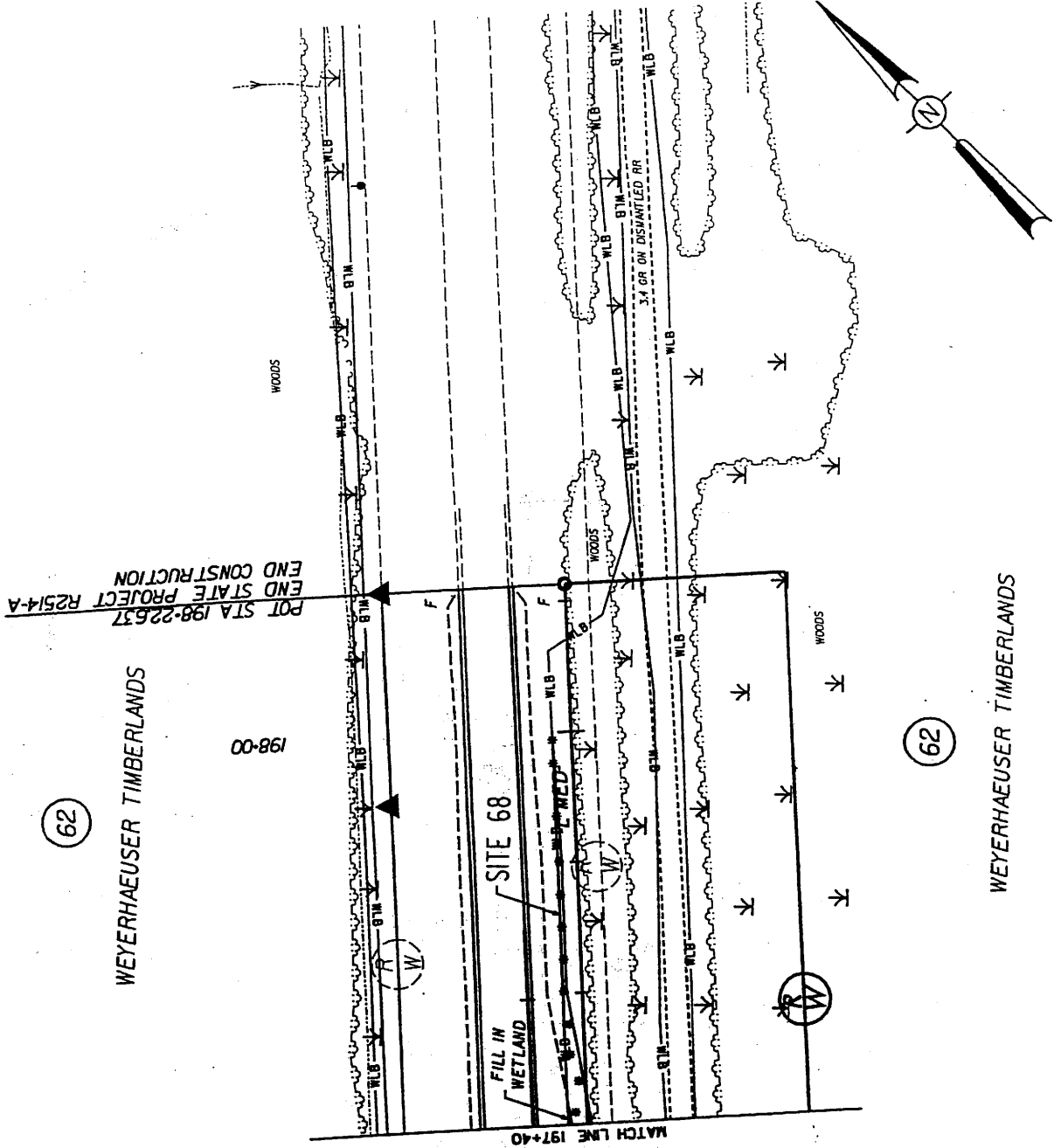
67

RONNIE ADAMS



NC DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS
ONSLow COUNTY
STATE PROJ: 8.T190301 (R-2514A)
US 17 NORTH OF JACKSONVILLE FROM
SR 1327 TO SR 1330/1439

SCALE AS SHOWN
SHEET 74 OF 81 DATE 8/19/03



62

WEYERHAEUSER TIMBERLANDS

198-00

SITE 68

FILL IN WETLAND

MATCH LINE 197+40

62

WEYERHAEUSER TIMBERLANDS

NC DEPT. OF TRANSPORTATION
 DIVISION OF HIGHWAYS
 ONSLOW COUNTY
 STATE PROJ: 8.T190301 (R-2514A)
 US 17 NORTH OF JACKSONVILLE FROM
 SR 1327 TO SR 1330/1439
 SCALE AS SHOWN
 SHEET 75 OF 81 7/14/03

PROPERTY OWNERS

NAMES AND ADDRESSES

| PARCEL NO. | NAMES | ADDRESSES |
|------------|--|---|
| 17 | PEGGY GIBSON | 4206 NEW BERN HWY JACKSONVILLE, NC 28546 |
| 19 | BENJAMIN GIBSON | 4184 NEW BERN HWY JACKSONVILLE, NC 28546 |
| 20 | MARCIA HUMPHREY | 1698 KELLUM LOOP RD JACKSONVILLE, NC 28546 |
| 21 | MARCIA HUMPHREY | 1698 KELLUM LOOP RD JACKSONVILLE, NC 28546 |
| 22 | ESTERLENE DIXON | 1402 ADAM COURT JACKSONVILLE, NC 28546 |
| 23 | RETHA EDWARDS | 4260 NEW BERN HWY JACKSONVILLE, NC 28546 |
| 26 | DEWEY L. POWERS | 944 ETON DRIVE JACKSONVILLE, NC 28546 |
| 30 | ANTHONY HERNANDEZ | 4339 N. MARINE BLVD JACKSONVILLE, NC 28546 |
| 32 | THE ENDOWMENT FUND OF NC STATE UNIV., ET AL (HOFFMANN FOREST) | JACKSONVILLE, NC 28540 |
| 33 | GREAT EASTERN TIMBER CO., LLC | 15 PIEDMONT CENTER SUITE 1250 ATLANTA, GA 30305 |
| 34 | JAMES WHITE | 2573 BELGRADE SWANSBORO RD MAYSVILLE, NC 28555 |
| 35 | BETTY C. SUTHERLAND | 5743 NEW BERN HWY MAYSVILLE, NC 28555 |
| 38 | EDNA EARL ODOM | P.O. BOX 833 MAYSVILLE, NC 28555 |
| 44 | GRACE E. HORTON | 11 RUTH STREET JACKSONVILLE, NC 28540 |
| 47 | HAZEL S. PARKER | 2798 BELGRADE SWANSBORO RD MAYSVILLE, NC 28555 |
| 48 | PERCY & LINA PARKER | 2780 BELGRADE SWANSBORO ROAD MAYSVILLE, NC 28555 |
| 50 | PERCY PARKER, ET. AL. | 2780 BELGRADE SWANSBORO ROAD MAYSVILLE, NC 28555 |

NCDOT

DIVISION OF HIGHWAYS

ONSLow COUNTY

PROJECT: 8.T190301 (R-2514A)

US 17 NORTH OF JACKSONVILLE

FROM SR 1327 /SR 1410

TO SR 1330 /SR 1439

SHEET 76 OF 81 DATE 7/14/03

PROPERTY OWNERS

NAMES AND ADDRESSES

| PARCEL NO. | NAMES | ADDRESSES |
|------------|-------------------------------|---|
| 51 | BARRUS CONSTRUCTION CO. | P.O. BOX 14000 LEXINGTON, KY 40512 |
| 52 | WHITE OAK COMMUNITY CHURCH | 6181 NEW BERN HWY MAYSVILLE, NC 28555 |
| 53 | JAMES KEITH JR., ET. AL | 56 DIXIE TRAIL JACKSONVILLE, NC 28546 |
| 55 | DONALD WHITE | III SPRINGHILL RD MAYSVILLE, NC 28555 |
| 56 | BETTY C. PEARCE | 5310 LORD TENNYSON RD WILMINGTON, NC 28405 |
| 62 | WEYERHAEUSER TIMBERLANDS | P.O. BOX 1391 NEW BERN, NC 28560 |
| 63 | WARREN & WENDY TROTT | 105 SPRINGHILL RD MAYSVILLE, NC 28555 |
| 65 | DONALD WHITE | III SPRINGHILL RD MAYSVILLE, NC 28555 |
| 66 | EUGENE ADAMS | 6574 NEW BERN HWY MAYSVILLE, NC 28555 |

NCDOT

DIVISION OF HIGHWAYS

ONslow COUNTY

PROJECT: 8.T190301 (R-2514A)

US 17 NORTH OF JACKSONVILLE

FROM SR 1327 / SR 1410

TO SR 1330 / SR 1439

SHEET 77 OF 81 DATE 7/14/03

WETLAND PERMIT IMPACT SUMMARY

| Site No. | Station (From/To) | Structure Size / Type | WETLAND IMPACTS | | | | | SURFACE WATER IMPACTS | | | | | | |
|----------|--------------------|--|-----------------------------|-----------------------------------|-----------------------------------|---|-----------------------------|---------------------------------|-----------------------------|------------------------------------|--------------------------------|--|-----|---|
| | | | Fill In Wetlands (Hectares) | Temp. Fill In Wetlands (Hectares) | Excavation In Wetlands (Hectares) | Mechanized Clearing (Method III) (Hectares) | Drained Wetlands (Hectares) | Fill In SW (Natural) (Hectares) | Temp. Fill In SW (Hectares) | Existing Channel Impacted (Meters) | Natural Stream Design (Meters) | | | |
| 1 | 105+60 - 105+99 RT | 900 mm RCP | 0.031 | | 0.015 | 0.009 | | | | | | | | |
| 2 | 106+01 - 106+04 LT | 900 mm RCP | | | | | | | | | | | | |
| 3 | 106+98 - 107+26 RT | | | | | | | | | | | | | |
| 4 | 107+48 - 107+63 CL | | 0.039 | | 0.005 | | | 0.016 | | 0.003 | | | 16 | |
| 4A | 107+70 LT | | 0.005 | | | | | | | | | | | |
| 5 | 107+60 - 111+40 RT | 600mm RCP | 0.099 | | | | | | | | | | | |
| 6 | 107+61 - 110+64 RT | | 0.099 | | | 0.007 | | 0.007 | | 0.001 | | | 3 | |
| 7 | 110+68 - 111+66 RT | | 0.049 | | 0.096 | 0.086 | | 0.243 | | | | | | |
| 8 | 111+26 - 111+73 LT | | 0.244 | | | | | | | | | | | |
| 8A | 111+80 - 111+88 LT | | 0.003 | | 0.008 | 0.010 | | | | | | | | |
| 9 | 111+66 - 112+12 RT | | 0.049 | | | 0.002 | | | | | | | | |
| 10 | 112+10 - 112+77 RT | 2.1 x 2.1 RCBC (same culvert as site 9) | 0.023 | | 0.006 | | | 0.022 | | 0.013 | | | 96 | |
| 10A | 112+08 LT | (same culvert as site 9) | | | 0.001 | | | | | 0.000 | | | 2 | |
| 11 | 114+23 - 114+43 RT | | 0.005 | | | 0.021 | | | | | | | | |
| 12 | 114+54 - 116+69 RT | 450 RCP | 0.344 | | 0.010 | 0.004 | | | | | | | | |
| 13 | 114+60 - 114+90 LT | (same pipe as site 12) | | | 0.003 | 0.064 | | 0.017 | | | | | | |
| 13A | 116+81 - 119+83 RT | 750 RCP | 0.521 | | 0.070 | 0.004 | | | | | | | | |
| 14 | 119+48 - 119+66 RT | (same pipe as site 13) | | | 0.003 | 0.083 | | 0.088 | | | | | | |
| 14A | 120+08 - 129+26 RT | 600 RCP | 1.930 | | 0.024 | 0.005 | | | | | | | | |
| 15 | 124+48 - 125+75 RT | (same pipe as site 14) | | | 0.011 | 0.122 | | | | | | | | |
| 15A | 125+57 - 125+79 LT | (same pipe as site 14) | | | 0.004 | 0.029 | | | | | | | | |
| 16 | 125+60 - 142+50 RT | | 0.093 | | 0.470 | 0.007 | | 0.134 | | | | | | |
| 17 | Not Used | | | | | 0.330 | | | | | | | | |
| TOTALS: | | | 3.534 | 0 | 0.726 | 0.782 | | 0.528 | | 0.017 | 0 | | 117 | 0 |

NCDOT

DIVISION OF HIGHWAYS
 ONSLOW COUNTY
 PROJECT 8.T190301 (R-2514A)
 US 17 NORTH OF
 JACKSONVILLE
 TO SOUTH OF BELGRADE

SHBET 78 OF 81

REV 04/12/04

g:\vac00201\lead\permits\WetlandPermitSummary.xls

File:

Form Revised 3/22/01

WETLAND PERMIT IMPACT SUMMARY

| Site No. | Station (From/To) | Structure Size / Type | WETLAND IMPACTS | | | | SURFACE WATER IMPACTS | | | | | | |
|----------|--------------------|-----------------------|-----------------------------|-----------------------------------|-----------------------------------|--|-----------------------------|---------------------------------|-----------------------------|------------------------------------|--------------------------------|---|---|
| | | | Fill In Wetlands (Hectares) | Temp. Fill In Wetlands (Hectares) | Excavation In Wetlands (Hectares) | Mechanized Clearing (Methrod III) (Hectares) | Drained Wetlands (Hectares) | Fill In SW (Natural) (Hectares) | Temp. Fill In SW (Hectares) | Existing Channel Impacted (Meters) | Natural Stream Design (Meters) | | |
| 18 | 129+35 - 132+32 RT | 375 mm RCP | 0.331 | | | | | | | | | | |
| 19 | 132+47 - 132+64 LT | 900 mm RCP | | | 0.005 | 0.006 | | | | | | | |
| 20 | 132+60 - 132+63 CL | | 0.002 | | 0.000 | 0.000 | | | | | | | |
| 21 | 133+56 - 147+60 RT | | 1.856 | | | | | | | | | | |
| 21A | 136+00 - 136+15 LT | 600 mm RCP | | | 0.002 | 0.006 | | | | | | | |
| 21B | 140+64 - 140+69 LT | 600 mm RCP | | | 0.001 | 0.005 | | | | | | | |
| 22 | 144+20 - 145+00 RT | 600 mm RCP | | | 0.031 | 0.015 | | | | | | | |
| 22A | 144+30 - 144+45 LT | 600 mm RCP | | | 0.001 | 0.003 | | | | | | | |
| 23 | 145+22 - 146+97 RT | 375 mm RCP | | | 0.041 | 0.007 | | | | | | | |
| 24 | 147+05 - 148+64 RT | 600 mm RCP | | | 0.028 | 0.016 | | | | | | | |
| 24A | 148+20 - 148+35 LT | 600 mm RCP | | | 0.002 | 0.010 | | | | | | | |
| 25 | 149+06 - 150+63 RT | 600 mm RCP | | | 0.000 | 0.000 | | | | | | | |
| 25A | 149+02 - 150+33 RT | | 0.111 | | | | | | | | | | |
| 26 | 150+55 - 151+05 RT | | 0.001 | | | 0.016 | | | | | | | |
| 27 | Not Used | | | | | 0.011 | | | | | | | |
| 28 | 150+68 - 151+37 RT | | 0.042 | | | | | | | | | | |
| 29 | 151+41 - 153+07 RT | | | | | | | | | | | | |
| 30 | 151+84 - 152+76 RT | | | | | 0.031 | | | | | | | |
| 31 | 153+13 - 153+51 RT | | 0.110 | | | | | | | | | | |
| 32 | 153+32 - 153+49 RT | | 0.009 | | | | | | | | | | |
| 33 | 154+40 - 156+76 RT | | 0.000 | | | 0.003 | | | | | | | |
| 34 | 156+97 - 157+18 RT | | 0.155 | | 0.008 | | | | | | | | |
| TOTALS: | | | 2.616 | 0 | 0.119 | 0.131 | 0.055 | 0 | 0 | 0 | 0 | 0 | 0 |

NCDOT
 DIVISION OF HIGHWAYS
 ONSLOW COUNTY
 PROJECT 8.T190301 (R-2514A)
 US 17 NORTH OF JACKSONVILLE
 TO SOUTH OF BELGRADE

SHEET 79 OF 81
 9/30/03

WETLAND PERMIT IMPACT SUMMARY

| Site No. | Station (From/To) | Structure Size / Type | WETLAND IMPACTS | | | | SURFACE WATER IMPACTS | | | | | | | |
|----------|--------------------|--|-----------------------------|-----------------------------------|-----------------------------------|---|-----------------------------|---------------------------------|-----------------------------|------------------------------------|--------------------------------|-----|----|---|
| | | | Fill In Wetlands (Hectares) | Temp. Fill In Wetlands (Hectares) | Excavation In Wetlands (Hectares) | Mechanized Clearing (Method III) (Hectares) | Drained Wetlands (Hectares) | Fill In SW (Natural) (Hectares) | Temp. Fill In SW (Hectares) | Existing Channel Impacted (Meters) | Natural Stream Design (Meters) | | | |
| 35 | 156+92 - 160+40 RT | | 0.308 | | | | | | | | | | | |
| 36 | 159+14 - 160+35 RT | | | | | | | | | | | | | |
| 37 | 160+40 - 162+10 RT | | | | | | | | | | | | | |
| 37A | 161+38 LT | 2 @ 2.1w x 1.8h RCBC (same culvert as site 37) | 0.192 | | 0.099 | | | | | | | | | |
| 38 | 162+52 - 169+43 RT | | | | 0.039 | | 0.043 | | | | | | | |
| 38A | 163+77 - 163+96 RT | | 0.814 | | | | 0.010 | | | 0.009 | | | 41 | |
| 39 | 162+52 - 169+26 RT | | | | | | | | | | | | | |
| 40 | 164+76 - 167+38 LT | 600 mm RCP | 0.156 | | 0.003 | | 0.017 | | | 0.002 | | | 20 | * |
| 41 | 168+24 - 168+64 LT | | 0.004 | | 0.274 | | 0.204 | | | | | | 20 | |
| 42 | 169+59 - 170+34 LT | | | | | | 0.059 | | | | | | | |
| 43 | 170+35 - 173+39 RT | | | | | | 0.004 | | | | | | | |
| 44 | 171+69 - 174+29 CL | | | | | | 0.007 | | | | | | | |
| 45 | 173+58 - 174+25 LT | | 0.290 | | 0.039 | | 0.000 | | | | | | | |
| 46 | 173+70 - 176+59 RT | 600 mm RCP | 0.016 | | | | | | | | | | | |
| 47 | 174+56 - 174+82 CL | | | | | | 0.042 | | | | | | | |
| 48 | 174+56 - 175+48 LT | | 0.023 | | 0.101 | | 0.008 | | | | | | | |
| 49 | 175+08 - 176+91 RT | 600 mm RCP | 0.019 | | 0.010 | | 0.074 | | | | | | | |
| 50 | Not Used | | 0.074 | | | | | | | | | | | |
| 51 | 176+61 - 176+83 LT | | | | | | | | | | | | | |
| 52 | 177+07 - 177+88 LT | | 0.002 | | | | | | | | | | | |
| 53 | 179+13 - 179+30 LT | 0.9m Base Tail Ditch | 0.016 | | 0.008 | | | | | | | | | |
| 54 | 181+51 - 182+79 CN | 0.9m Base Tail Ditch | | | 0.044 | | 0.075 | | | | | | | |
| | | Bridge | 0.117 | | | | 0.022 | | | 0.001 | | | 20 | |
| TOTALS: | | | 2.031 | 0 | 0.618 | | 0.566 | | 0.061 | 0.011 | 0 | 120 | | 0 |

* No Mitigation Required (Intermittent Stream In Site 38)

NCDOT

DIVISION OF HIGHWAYS
 ONSLOW COUNTY
 PROJECT 8.T190301 (R-2514A)
 US 17 NORTH OF JACKSONVILLE
 TO SOUTH OF BELGRADE.

Form Revised 3/22/01

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SHEET 30 OF 31

4/5/04

WETLAND PERMIT IMPACT SUMMARY

| Site No. | Station (From/To) | Structure Size / Type | WETLAND IMPACTS | | | | SURFACE WATER IMPACTS | | | | | | |
|-----------------|--------------------|-----------------------|-----------------------------|-----------------------------------|-----------------------------------|---|-----------------------------|---------------------------------|-----------------------------|------------------------------------|--------------------------------|---|---|
| | | | Fill In Wetlands (Hectares) | Temp. Fill In Wetlands (Hectares) | Excavation In Wetlands (Hectares) | Mechanized Clearing (Method III) (Hectares) | Drained Wetlands (Hectares) | Fill In SW (Natural) (Hectares) | Temp. Fill In SW (Hectares) | Existing Channel Impacted (Meters) | Natural Stream Design (Meters) | | |
| 55 | 181+70 - 182+70 LT | Bridge | 0.064 | * | | 0.020 | | | | | | | |
| 56 | 182+97 - 185+66 LT | Bridge | 0.040 | * | | 0.054 | | | | | | | |
| 57 | 183+00 - 185+05 CN | Bridge | 0.191 | | | 0.004 | | | | | | | |
| 58 | 183+07 - 185+67 RT | | 0.067 | | | 0.082 | | | | | | | |
| 59 | Not Used | | | | | | | | | | | | |
| 60 | 185+20 - 192+33 RT | | 0.208 | | | | | | | | | | |
| 61 | 185+23 - 185+67 CN | | 0.013 | | | | | | | | | | |
| 62 | 185+40 - 188+36 RT | | 0.054 | | 0.004 | | | | | | | | |
| 63 | 185+80 - 186+13 RT | | | | | | | | | | | | |
| 64 | 188+44 - 192+19 RT | 600 mm RCP | 0.081 | | 0.014 | 0.005 | | | | | | | |
| 64A | 192+76 - 193+31 LT | | 0.015 | | 0.011 | 0.016 | | | | | | | |
| 65 | 193+65 - 193+77 RT | | | | 0.001 | 0.020 | | | | | | | |
| 66 | 193+88 - 195+54 RT | | 0.126 | | 0.071 | 0.035 | | | | | | | |
| 67 | 195+28 - 195+75 LT | 600 mm & 900 mm RCP | 0.002 | | 0.006 | 0.017 | | | | | | | |
| 68 | 196+77 - 197+44 RT | | 0.009 | | | 0.025 | | | | | | | |
| SHEET TOTALS: | | | 0.871 | 0 | 0.108 | 0.278 | 0.008 | 0 | 0 | 0 | 0 | 0 | 0 |
| PROJECT TOTALS: | | | 9.062 | 0 | 1.571 | 1.757 | 0.662 | 0.028 | 0 | 0 | 0 | 0 | 0 |

* SITE 55 - 0.064 ha INCLUDES 0.022 ha OF FILL FOR TEMPORARY ACCESS ROAD AND WORK PAD.

* SITE 56 - 0.0398 ha INCLUDES 0.019 ha OF FILL FOR TEMPORARY ACCESS ROAD AND WORK PAD.

NCDOT

DIVISION OF HIGHWAYS
 ONSLOW COUNTY
 PROJECT 8.T190301 (R-2514A)
 US 17 NORTH OF JACKSONVILLE
 TO SOUTH OF BELGRADE

SHEET 81 OF 81

4/5/04

WETLAND PERMIT IMPACT SUMMARY

| Site No. | Station (From/To) | Structure Size / Type | WETLAND IMPACTS | | | | SURFACE WATER IMPACTS | | | | | | |
|----------|--------------------|--------------------------|--------------------------|--------------------------------|--------------------------------|--|--------------------------|------------------------------|--------------------------|----------------------------------|------------------------------|-----|---|
| | | | Fill In Wetlands (Acres) | Temp. Fill In Wetlands (Acres) | Excavation In Wetlands (Acres) | Mechanized Clearing (Method III) (Acres) | Drained Wetlands (Acres) | Fill In SW (Natural) (Acres) | Temp. Fill In SW (Acres) | Existing Channel Impacted (Feet) | Natural Stream Design (Feet) | | |
| 1 | 105+66 - 105+99 RT | 36" RCP | 0.076 | | 0.038 | 0.022 | | | | | | | |
| 2 | 106+01 - 106+04 LT | 36" RCP | | | | | | | | | | | |
| 3 | 106+98 - 107+26 RT | | | | | | | | | | | | |
| 4 | 107+48 - 107+63 CL | | 0.096 | | 0.014 | | | 0.041 | 0.008 | | | 52 | |
| 4A | 107+70 LT | 24" RCP | 0.011 | | | | | | | | | | |
| 5 | 107+60 - 111+40 RT | | 0.244 | | | | | | | | | | |
| 6 | 107+61 - 110+64 RT | | 0.244 | | | | | | | | | | |
| 7 | 110+58 - 111+65 RT | | 0.121 | | 0.286 | 0.017 | | 0.017 | 0.001 | | | 10 | |
| 8 | 111+26 - 111+73 LT | | 0.604 | | | 0.212 | | 0.601 | | | | | |
| 8A | 111+80 - 111+88 LT | | 0.007 | | 0.019 | 0.024 | | | | | | | |
| 9 | 111+66 - 112+12 RT | | | | | 0.006 | | | | | | | |
| 10 | 112+10 - 112+77 RT | 7' x 7' RCBC | 0.122 | | | | | | | | | | |
| 10A | 112+08 LT | (same culvert as site 9) | 0.057 | | 0.014 | | | 0.054 | 0.031 | | | 315 | |
| 11 | 114+23 - 114+43 RT | | | | 0.003 | 0.051 | | | 0.001 | | | 7 | |
| 12 | 114+54 - 116+69 RT | 18" RCP | 0.013 | | | 0.010 | | | | | | | |
| 12A | 114+60 - 114+90 LT | (same pipe as site 12) | 0.851 | | 0.024 | 0.158 | | 0.042 | | | | | |
| 13 | 116+81 - 119+83 RT | 30" RCP | | | 0.008 | 0.010 | | | | | | | |
| 13A | 119+48 - 119+66 LT | (same pipe as site 13) | 1.288 | | 0.172 | 0.204 | | 0.219 | | | | | |
| 14 | 120+09 - 129+26 RT | 24" RCP | | | 0.008 | 0.012 | | | | | | | |
| 15 | 124+48 - 125+75 RT | (same pipe as site 14) | 4.768 | | 0.060 | 0.301 | | | | | | | |
| 15A | 125+57 - 125+79 LT | (same pipe as site 14) | | | 0.026 | 0.073 | | | | | | | |
| 16 | 125+80 - 142+50 RT | | | | 0.010 | 0.017 | | | | | | | |
| 17 | Not Used | | 0.230 | | 1.162 | 0.816 | | 0.331 | | | | | |
| TOTALS: | | | 8.73 | 0 | 1.79 | 1.93 | | 1.30 | 0.04 | 0 | | 384 | 0 |

NCDOT

DIVISION OF HIGHWAYS
 ONSLOW COUNTY
 PROJECT 8.T190301 (R-2514A)
 US 17 NORTH OF JACKSONVILLE
 TO SOUTH OF BELGRADE

SHEET 81A OF 81

4/12/04

ENGLISH

WETLAND PERMIT IMPACT SUMMARY

| Site No. | Station (From/To) | Structure Size / Type | WETLAND IMPACTS | | | | SURFACE WATER IMPACTS | | | | | | | |
|----------|--------------------|-----------------------|--------------------------|--------------------------------|--------------------------------|--|--------------------------|------------------------------|--------------------------|----------------------------------|------------------------------|---|---|---|
| | | | Fill In Wetlands (Acres) | Temp. Fill In Wetlands (Acres) | Excavation In Wetlands (Acres) | Mechanized Clearing (Method III) (Acres) | Drained Wetlands (Acres) | Fill In SW (Natural) (Acres) | Temp. Fill In SW (Acres) | Existing Channel Impacted (Feet) | Natural Stream Design (Feet) | | | |
| 18 | 129+35 - 132+32 RT | 15" RCP | 0.818 | | | | | | | | | | | |
| 19 | 132+47 - 132+64 LT | 36" RCP | 0.004 | | 0.013 | 0.014 | | | | | | | | |
| 20 | 132+60 - 132+63 CL | | 4.587 | | | | | | | | | | | |
| 21 | 133+56 - 147+60 RT | | | | | | | | | | | | | |
| 21A | 136+00 - 136+15 LT | 24" RCP | | | 0.006 | 0.015 | | | | | | | | |
| 21B | 140+54 - 140+69 LT | 24" RCP | | | 0.002 | 0.013 | | | | | | | | |
| 22 | 144+20 - 145+00 RT | 24" RCP | | | 0.076 | 0.037 | | | | | | | | |
| 22A | 144+30 - 144+45 LT | 24" RCP | | | 0.001 | 0.008 | | | | | | | | |
| 23 | 145+22 - 146+97 RT | 15" RCP | | | 0.101 | 0.019 | | | | | | | | |
| 24 | 147+05 - 148+64 RT | 24" RCP | | | 0.089 | 0.040 | | 0.098 | | | | | | |
| 24A | 148+20 - 148+35 LT | 24" RCP | | | 0.004 | 0.024 | | 0.037 | | | | | | |
| 25 | 149+06 - 150+63 RT | | 0.273 | | | | | | | | | | | |
| 25A | 149+02 - 150+33 RT | | | | | | | | | | | | | |
| 26 | 150+55 - 151+05 RT | | 0.002 | | | 0.040 | | | | | | | | |
| 27 | Not Used | | | | | 0.027 | | | | | | | | |
| 28 | 150+68 - 151+37 RT | | 0.103 | | | | | | | | | | | |
| 29 | 151+41 - 153+07 RT | | | | | | | | | | | | | |
| 30 | 151+84 - 152+76 RT | | | | | | | | | | | | | |
| 31 | 153+13 - 153+51 RT | | 0.271 | | | 0.077 | | | | | | | | |
| 32 | 153+32 - 153+49 RT | | 0.022 | | | | | | | | | | | |
| 33 | 154+40 - 156+76 RT | | 0.001 | | | 0.008 | | | | | | | | |
| 34 | 156+97 - 157+18 RT | | 0.383 | | 0.021 | | | | | | | | | |
| TOTALS: | | | 6.46 | 0 | 0.29 | 0.32 | 0.14 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

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DIVISION OF HIGHWAYS
 ONSLOW COUNTY
 PROJECT 8.T190301 (R-2514A)
 US 17 NORTH OF JACKSONVILLE
 TO SOUTH OF BELGRADE

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ENGLISH

WETLAND PERMIT IMPACT SUMMARY

| Site No. | Station (From/To) | Structure Size / Type | WETLAND IMPACTS | | | | SURFACE WATER IMPACTS | | | | | | |
|----------|--------------------|--|--------------------------|--------------------------------|--------------------------------|--|--------------------------|------------------------------|--------------------------|----------------------------------|------------------------------|-----|---|
| | | | Fill In Wetlands (Acres) | Temp. Fill In Wetlands (Acres) | Excavation In Wetlands (Acres) | Mechanized Clearing (Method III) (Acres) | Drained Wetlands (Acres) | Fill In SW (Natural) (Acres) | Temp. Fill In SW (Acres) | Existing Channel Impacted (Feet) | Natural Stream Design (Feet) | | |
| 35 | 156+92 - 160+40 RT | | 0.760 | | | | | | | | | | |
| 36 | 159+14 - 160+35 RT | | 0.475 | | 0.245 | | | | | | | | |
| 37 | 160+40 - 162+10 RT | | | | 0.097 | | | | | | | | |
| 37A | 161+38 LT | 2 @ 7' w x 6' h RCBC (same culvert as site 37) | | | | | | | | | | | |
| 38 | 162+62 - 169+43 RT | | 2.012 | | | 0.107 | | | 0.021 | | | | |
| 38A | 163+77 - 163+96 RT | | | | | 0.025 | | | | | | 135 | |
| 39 | 162+62 - 169+26 RT | | 0.387 | | 0.008 | 0.043 | | | 0.005 | | | 59 | |
| 40 | 164+76 - 167+38 LT | 24" RCP | 0.011 | | 0.677 | 0.503 | | 0.006 | | | | 66 | * |
| 41 | 168+24 - 168+64 LT | | | | | 0.147 | | | | | | 66 | |
| 42 | 169+59 - 170+34 LT | | | | | 0.010 | | | | | | | |
| 43 | 170+35 - 173+39 RT | | | | | 0.017 | | | | | | | |
| 44 | 171+69 - 174+29 CL | | | | 0.097 | | | | | | | | |
| 45 | 173+58 - 174+25 LT | | 0.716 | | | | | 0.045 | | | | | |
| 46 | 173+70 - 176+59 RT | 24" RCP | 0.038 | | | | | | | | | | |
| 47 | 174+56 - 174+82 CL | | | | | 0.105 | | | | | | | |
| 48 | 174+56 - 175+48 LT | | 0.057 | | 0.250 | 0.020 | | | | | | | |
| 49 | 175+08 - 176+91 RT | 24" RCP | 0.047 | | | | | | | | | | |
| 50 | Not Used | | 0.183 | | 0.026 | 0.183 | | | | | | | |
| 51 | 176+61 - 176+83 LT | | | | | | | | | | | | |
| 52 | 177+07 - 177+88 LT | | 0.006 | | | | | | | | | | |
| 53 | 179+13 - 179+30 LT | 3:0' Base Tail Ditch | 0.039 | | 0.019 | | | 0.018 | | | | | |
| 54 | 181+51 - 182+79 CN | 3:0' Base Tail Ditch Bridge | 0.288 | | 0.108 | 0.186 | | 0.083 | | | | | |
| TOTALS: | | | 6.02 | 0 | 1.53 | 1.40 | 0.15 | 0.03 | 0 | 0.03 | 0 | 392 | 0 |

* No Mitigation Required (Intermittent Stream in Site 38)

ENGLISH

NCDOT

DIVISION OF HIGHWAYS
 ONSLOW COUNTY
 PROJECT 8.T190301 (R-2514A)
 US 17 NORTH OF JACKSONVILLE
 TO SOUTH OF BELGRADE

SHEET 81c OF 81 / 4/5/04

WETLAND PERMIT IMPACT SUMMARY

| Site No. | Station (From/To) | Structure Size / Type | WETLAND IMPACTS | | | | SURFACE WATER IMPACTS | | | | | | |
|-----------------|--------------------|-----------------------|--------------------------|--------------------------------|--------------------------------|--|--------------------------|------------------------------|--------------------------|----------------------------------|------------------------------|---|---|
| | | | Fill In Wetlands (Acres) | Temp. Fill In Wetlands (Acres) | Excavation In Wetlands (Acres) | Mechanized Clearing (Method III) (Acres) | Drained Wetlands (Acres) | Fill In SW (Natural) (Acres) | Temp. Fill In SW (Acres) | Existing Channel Impacted (Feet) | Natural Stream Design (Feet) | | |
| 55 | 181+70 - 182+70 LT | Bridge | 0.158 | * | | 0.049 | | | | | | | |
| 56 | 182+97 - 185+66 LT | Bridge | 0.098 | * | | 0.134 | | | | | | | |
| 57 | 183+00 - 185+05 CN | Bridge | 0.472 | | | 0.011 | | | | | | | |
| 58 | 183+07 - 185+67 RT | | 0.166 | | | 0.202 | | | | | | | |
| 59 | Not Used | | | | | | | | | | | | |
| 60 | 185+20 - 192+33 RT | | 0.513 | | | | | | | | | | |
| 61 | 185+23 - 185+67 CN | | 0.033 | | | | | | | | | | |
| 62 | 185+40 - 188+36 RT | | 0.134 | | 0.011 | | | | | | | | |
| 63 | 185+80 - 186+13 RT | | | | | | | | | | | | |
| 64 | 188+44 - 192+19 RT | 24" RCP | 0.200 | | 0.035 | 0.013 | | | | | | | |
| 64A | 192+76 - 193+31 LT | | 0.038 | | 0.028 | 0.049 | | | | | | | |
| 65 | 193+65 - 193+77 RT | | | | 0.002 | | 0.019 | | | | | | |
| 66 | 193+88 - 195+64 RT | | 0.312 | | 0.177 | 0.086 | | | | | | | |
| 67 | 195+28 - 195+75 LT | 24" & 36" RCP | 0.004 | | 0.014 | 0.043 | | | | | | | |
| 68 | 196+77 - 197+44 RT | | 0.023 | | | 0.061 | | | | | | | |
| SHEET TOTALS: | | | 2.152 | 0 | 0.267 | 0.687 | 0.019 | 0 | 0 | 0 | 0 | 0 | 0 |
| PROJECT TOTALS: | | | 22.37 | | 3.88 | 4.34 | 1.59 | 0.07 | 0.00 | 776 | | | |

* SITE 55 - 0.16 ac. INCLUDES 0.05 ac. OF FILL FOR TEMPORARY ACCESS ROAD AND WORK PAD.

* SITE 56 - 0.10 ac. INCLUDES 0.05 ac. OF FILL FOR TEMPORARY ACCESS ROAD AND WORK PAD.

ENGLISH

NCDOT

DIVISION OF HIGHWAYS
 ONSLOW COUNTY
 PROJECT 8.T190301 (R-2514A)
 US 17 NORTH OF JACKSONVILLE
 TO SOUTH OF BELGRADE

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

| | | |
|------------------------------|--|-------------------|
| Applicant: NCDOT/TIP R-2514A | File Number: 199503519 | 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. Dave Timpy, Regulatory Project Manager
U.S. Army Corps of Engineers, Wilmington District
Wilmington Regulatory Field Office
P.O. Box 1890
Wilmington, North Carolina 28402

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

Mr. Arthur Middleton, Administrative Appeal Review Officer
CESAD-ET-CO-R
U.S. Army Corps of Engineers, South Atlantic Division
60 Forsyth Street, Room 9M15
Atlanta, Georgia 30303-8801

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

Signature of appellant or agent.

Date:

Telephone number:

DIVISION ENGINEER:

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