

DEPARTMENT OF THE ARMY
Wilmington District, Corps of Engineers
Post Office Box 1890
Wilmington, North Carolina 28402-1890

Action ID No. 200300999

June 4, 2004

PUBLIC NOTICE

THE NORTH CAROLINA DEPARTMENT OF TRANSPORTATION (NCDOT), C/O DR. GREGORY J. THORPE, PHD, MANAGER, PROJECT DEVELOPMENT AND ENVIRONMENTAL ANALYSIS BRANCH, 1548 MAIL SERVICE CENTER, RALEIGH, NORTH CAROLINA, 27699-1548 HAS APPLIED FOR A DEPARTMENT OF THE ARMY (DA) PERMIT PURSUANT TO SECTION 404 OF THE CLEAN WATER ACT TO DISCHARGE DREDGED OR FILL MATERIAL INTO WATERS OF THE UNITED STATES, INCLUDING JURISDICTIONAL WETLANDS FOR THE RELOCATION AND UPGRADE OF THE EXISTING U.S. 74 TWO-LANE FACILITY TO A FOUR-LANE, FULL CONTROL OF ACCESS, MEDIAN- DIVIDED HIGHWAY BEGINNING AT THE US 74 BUSINESS BYPASS IN MAXTON TO THE INTERSECTION WITH NC 41 IN LUMBERTON IN ROBERSON COUNTY, NORTH CAROLINA. STATE PROJECT 6.469002T, TIP NO. R-513, NCDOT DIVISION 6.

The following description of the work is taken from data provided by the applicant and from observations made during site visits by representatives of the Corps of Engineers.

History:

The social, economic, and environmental impacts associated with potential build alternatives for R-513 have been described in a North Carolina Department of Transportation (NCDOT)/Federal Highway Administration (FHWA) Environmental Assessment that was approved by FHWA on October 24, 1995. A Finding of No Significant Impact (FONSI) determination was prepared for this project and approved by FHWA on August 27, 1999. The purpose of the proposed project, as stated in the EA, is to improve safety and capacity on the US 74 corridor (R-513).

The NCDOT/FHWA EA and FONSI are available for review at the Wilmington Regulatory Field Office of the Wilmington District U.S. Army Corps of Engineers, 69 Darlington Avenue, Wilmington, North Carolina, or at the North Carolina Department of Transportation, Project Development and Environmental Analysis Branch, Transportation Building, 1 South Wilmington Street, Raleigh, North Carolina.

Project Description:

The work now being considered for authorization is the discharge of dredged or fill material into 54.1 acres of jurisdictional wetlands, 0.71 acres of jurisdictional surface waters and 9,659 linear feet of jurisdictional stream channel associated with the construction of U.S. 74. The U.S. 74 highway improvement project will involve the construction of a four-lane, full control of access, median-divided highway on new alignment from the existing US 74 Business bypass in Maxton to just east of the I-95 interchange and the widening of the existing two-lane facility to a four-lane, full control of access, median-divided highway from the I-95 interchange to the intersection with NC 41. The proposed highway improvement project is approximately 19.6 miles in length and will be 70 feet wide, with a 38-foot roadway on either side of a 46-foot to 69-foot median, with 10-foot outside paved shoulders and 4-foot inside paved shoulders.

The project is located in the Lumber River Basin (Hydrologic Unit 03040203). Waters of the United States, including wetlands will be impacted by the proposed project. The streams that may be impacted by the proposed project are tributaries to Back Swamp, Double Branch, Jacob Swamp and the Lumber River. There are 14 proposed stream crossings associated with the proposed project (see Table 1). Wetland types potentially impacted by the proposed project are 48.59 acres of palustrine forested wetlands as shown in Table 1.

Table 1. Impacts to Aquatic Features from Proposed Project

Feature	R-513 (Sections)					
	A	BA	BB	C	Total	
Number of Streams	2	5	2	5	14	
Streams (Feet)	1879	2586	453	4743	9659	
Surface Waters* (Acres)	0.46	1.29	0.08	1.65	3.48	
Palustrine Forested Wetlands (acres)	Riverine	1.24	0.04	0	4.25	5.53
	Non-riverine	9.64	4.89	19.23	14.83	48.59

Note: Areas and lengths are based on Preliminary Design
 * includes stream and pond area impacts

Construction of the proposed project will permanently impact 48.59 acres of jurisdiction wetlands and 9659 linear feet or 2.77 acres of stream channel. The proposal will also temporarily impact 0.01 acres of wetlands and 0.02 acres of stream channel. The NCDOT is proposing to use the North Carolina Ecosystem Enhancement Program (EEP) to provide the necessary compensatory mitigation for the unavoidable wetland and stream impacts associated with this project.

The State of North Carolina will review this public notice to determine the need for the applicant to obtain any required State authorizations. No Department of the Army (DA) permit will be issued until the coordinated State viewpoint on the proposal has been received and reviewed by this agency, nor will a Department of the Army permit be issued until the North Carolina Division of Water Quality has determined the applicability of a Water Quality Certification as required by PL 92-500.

This application is being considered pursuant to Section 404 of the Clean Water Act (33 U.S.C. 1344). Any person may request, in writing within the comment period specified in the notice, that a public hearing be held to consider this application. Requests for public hearing shall state, with particularity, the reasons for holding a public hearing.

The District Engineer has consulted the latest published version of the National Register of Historic Places (NRHP) for the presence or absence of registered properties, or properties listed as being eligible for inclusion therein. No registered properties or properties listed as eligible were identified. However, the Evander Pittman House was determined by NCDOT to be eligible for listing in the NRHP. The site is located in the vicinity of the proposed highway project, but the project will not require any additional right-of-way from the Evander Pittman Property. The North Carolina State Historic Preservation Office (SHPO) concurred with the determination that the highway project would not have an effect on this eligible historic site on September 28, 1995.

The NCDOT has identified forty-one potential archaeological sites within the proposed highway project area. None of these sites were deemed eligible for the NRHP. Consultation of the National Register and review of the above referenced NEPA documents and supplied correspondence from NCDOT constitutes the extent of cultural resource investigations by the District Engineer, and he is otherwise unaware of the presence of any other resources.

NCDOT has conducted surveys along the proposed project corridors to identify suitable, or critical habitat for species listed as Federally endangered or threatened pursuant to the Endangered Species Act of 1973. Based on information provided by NCDOT, the Corps of Engineers has determined that the proposed permit action is not likely to adversely effect any listed species known to occur within Robeson County (American alligator, *Alligator mississippiensis*; red-cockaded woodpecker, *Picoides borealis*; Michaux's sumac, *Rhus michauxii*). The U.S. Fish and Wildlife Service, in a letter dated February 3, 1999, concurred that the highway project is not likely to adversely affect the red-cockaded woodpecker or any other federally-listed endangered and threatened species. The District Engineer, based on available information, is not aware that the proposed activity will affect any other species not listed above, or their critical habitat, designated as endangered or threatened pursuant to the Endangered Species Act of 1973.

The decision whether to issue a permit will be based on an evaluation of the probable impacts, including cumulative impacts, of the proposed activity and its intended use on the public interest. Evaluation of the probable impacts that the proposed activity may have on the public interest requires a careful weighing of all those factors that become relevant in each particular case. The benefits that reasonably may be expected to accrue from the proposal must be balanced against its reasonably foreseeable detriments. The decision whether to authorize a proposal, and if so the conditions under which it will be allowed to occur, are therefore determined by the outcome of the general balancing process. That decision should reflect the national concern for both protection and utilization of important resources. All factors that may be relevant to the proposal must be considered including the cumulative effects thereof. Among those are conservation, economics, aesthetics, general environmental concerns, wetlands, cultural

values, fish and wildlife values, flood hazards and flood plain values (in accordance with Executive Order 11988), land use, navigation, shore erosion and accretion, recreation, water supply and conservation, water quality, energy needs, safety, food and fiber production, mineral needs, considerations of property ownership, and, in general, the needs and welfare of the people. For activities involving the placement of dredged or fill materials in waters of the United States, a permit will be denied if the discharge that would be authorized by such permit would not comply with the Environmental Protection Agency's 404(b)(1) guidelines. Subject to the preceding sentence and any other applicable guidelines or criteria, a permit will be granted unless the District Engineer determines that it would be contrary to the public interest.

The Corps of Engineers is soliciting comments from the public; Federal, State and local agencies and officials; Indian Tribes and other interested parties in order to consider and evaluate the impacts of this proposed activity. Any comments received will be considered by the Corps of Engineers to determine whether to issue, modify, condition or deny a permit for this proposal. To make this decision, comments are used to assess impacts on endangered species, historic properties, water quality, general environmental effects and the other public interest factors listed above. Comments are used in the preparation of an Environmental Assessment (EA) and/or an Environmental Impact Statement (EIS) pursuant to the National Environmental Policy Act (NEPA). Comments are also used to determine the need for a public hearing and to determine the overall public interest of the proposed activity.

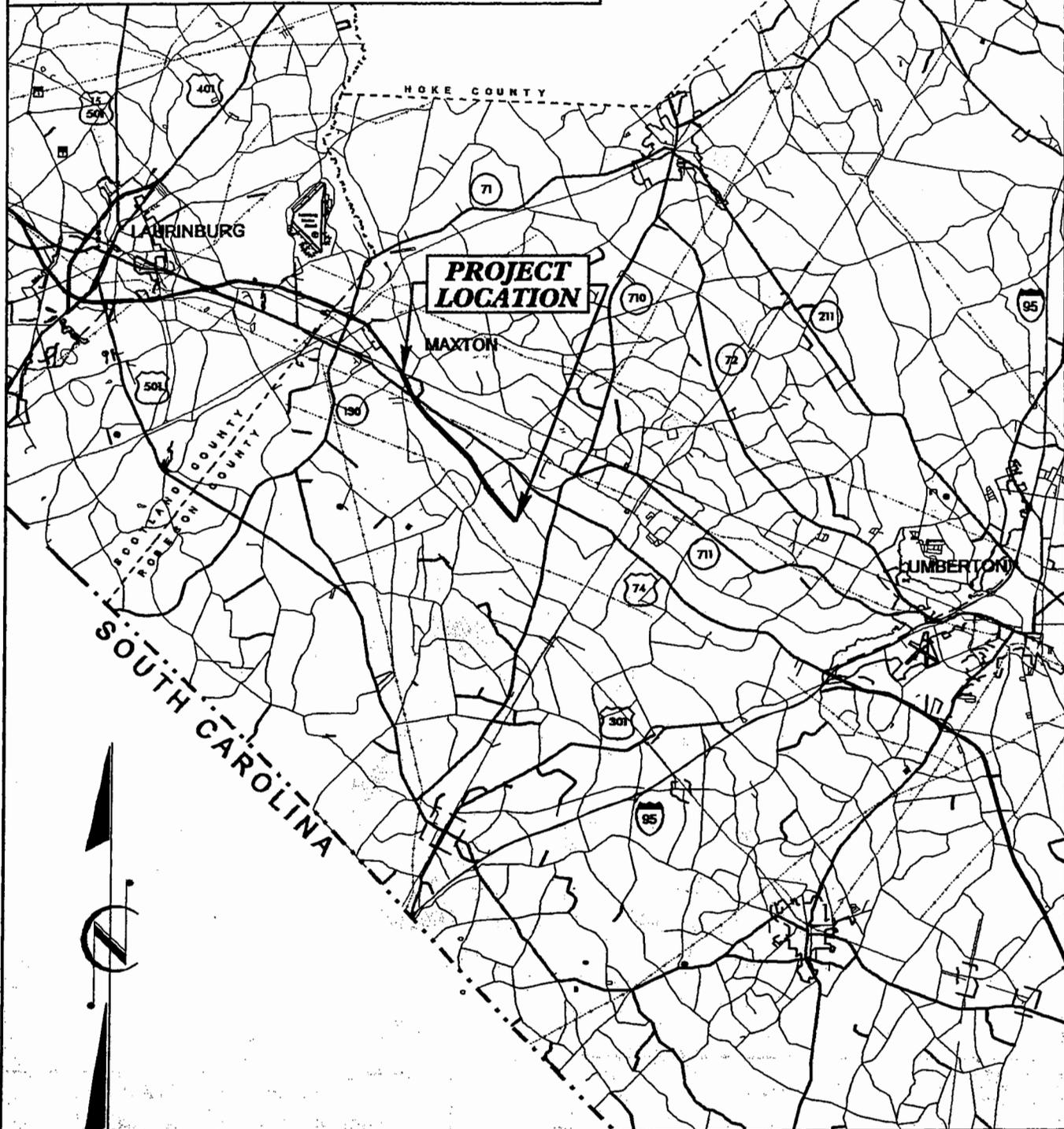
Generally, the decision whether to issue this Department of the Army (DA) permit will not be made until the North Carolina Division of Water Quality (NCDWQ) issues, denies, or waives State certification required by Section 401 of the Clean Water Act. The NCDWQ considers whether or not the proposed activity will comply with Sections 301, 302, 306, and 307 of the Clean Water Act. The application and this public notice for the Department of the Army (DA) permit serves as application to the NCDWQ for certification.

Additional information regarding the Clean Water Act certification may be reviewed at the offices of the Environmental Operations Section, North Carolina Division of Environmental Management (NCDDEM), Salisbury Street, Archdale Building, Raleigh, North Carolina. Copies of such materials will be furnished to any person requesting copies upon payment of reproduction costs.

All persons desiring to make comments regarding the application for Clean Water Act certification should do so in writing delivered to the North Carolina Division of Water Quality, (NCDWQ), 1650 Mail Service Road, Raleigh, North Carolina 27699-1650, Attention: Mr. John Dorney.

Written comments pertinent to the proposed work, as outlined above, will be received in this office, Attention: Mr. Richard K. Spencer, until 4:30 p.m., July 6, 2004.

VICINITY MAP



SCALE
1 0 1 2 3 4 MILES

N. C. DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS

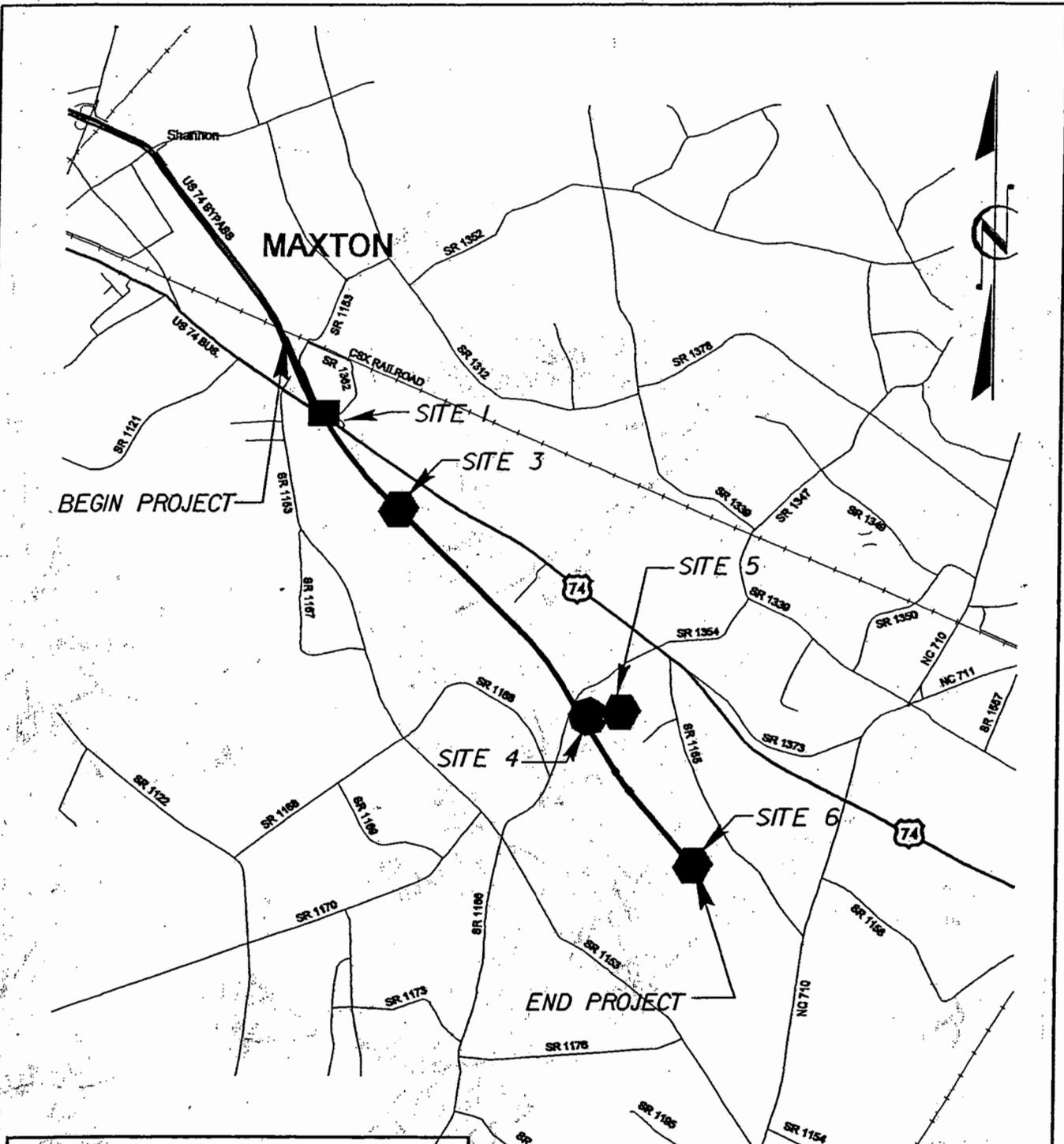
ROBESON COUNTY

PROJECT 6.469002T R-513A

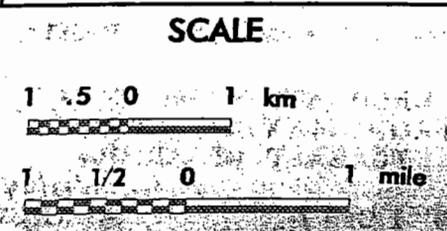
RELOCATION OF US 74
FROM MAXTON BY-PASS
TO EAST OF SR. 1166

SHEET 1 OF 15

Rev. 2/12/04
APRIL, 2002



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



LOCATION MAP
 SHOWING SITES FOR PERMIT
 APPLICATION ALONG PROPOSED US 74
 N. C. DEPT. OF TRANSPORTATION
 DIVISION OF HIGHWAYS
 ROBESON COUNTY
 PROJECT: 6.469002T - R-513A
 US 74 FROM MAXTON BY-PASS
 TO EAST OF SR. 1166
 Rev. 2/13/64
 SHEET 2 OF 15 APRIL 2009

IMPACT SUMMARY

Site No.	Station (From/To)	Structure Size	WETLAND IMPACTS				SURFACE WATER IMPACTS				DITCH IMPACTS				
			Fill In Wetlands (ac)	Temp. Fill In Wetland (ac)	Excavation In Wetlands (ac)	Mech. Clearing (Method III) (ac)	Fill In SW (Natural) (ac)	Fill In SW (Pond) (ac)	Temp. Fill In SW (ac)	Existing Channel Impacted (ft)	Relocated Channel (ft)	Enclosed Channel (ft)	Business Equation (ac)		
1	13+00 TO 18+60 L-	1650mm	0.14		0.23		0.39		1715		230		0.87	0	
2	28+10 L-	900mm													
3	33+38 TO 33+75		1.01			0.06									
4	12+78 RP 'B'		0.02			0.01									
5	12+42 TO 2-	2 - 2.4m x 2.1m					0.07		164		79				
6	82+00 TO 9+50 L-		8.01			0.53									
PEE DEE RIVER BASIN (LUMBER RIVER)			NO BUFFER REGULATIONS												
TOTALS			9.18	0	0.23	0.60	0.46	0	0	1879	0	308	0	0.87	0

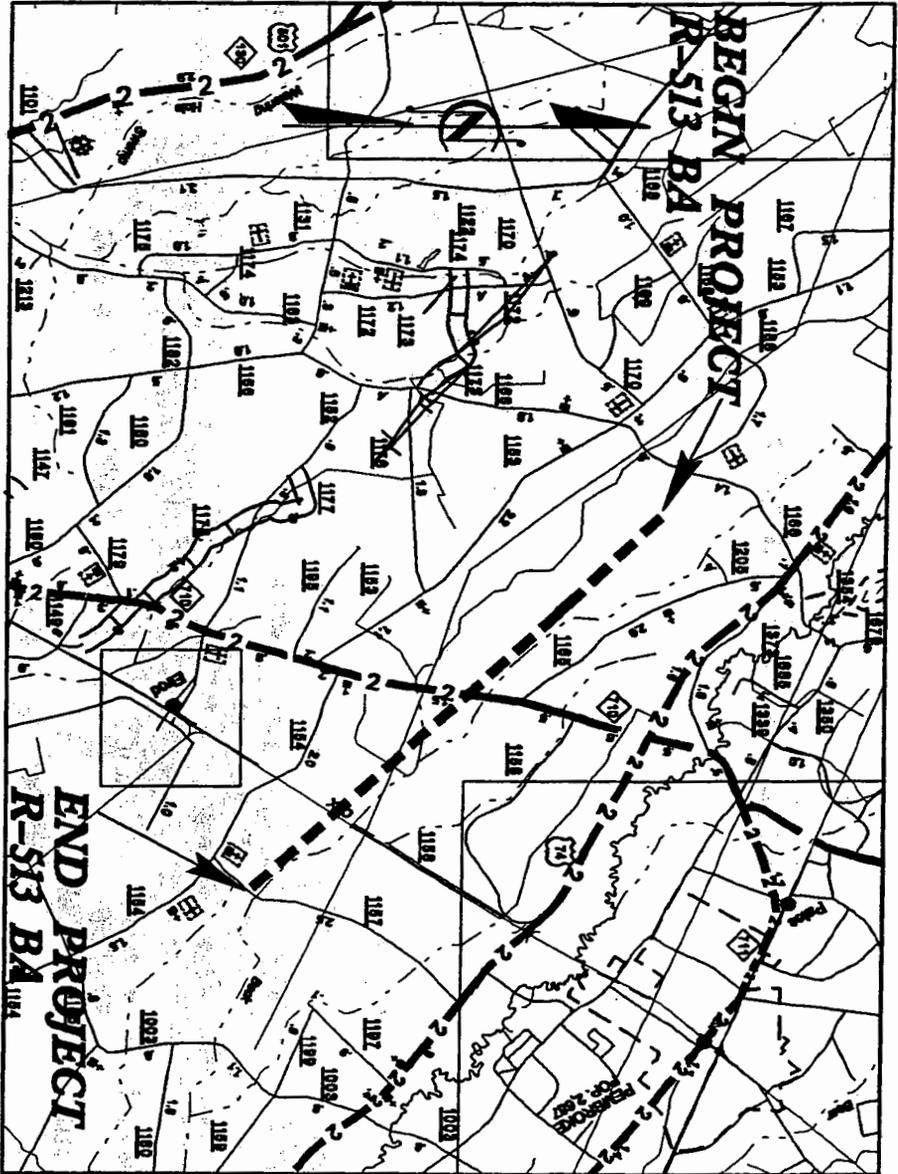
N.C. DEPT. OF TRANSPORTATION
 DIVISION OF HIGHWAYS
 ROBESON COUNTY
 PROJECT: 6489002T - R-513 A
 Rev 4/2004
 Rev 3/2004
 APRIL, 2002

SHEET 13 OF 15

IMPACT SUMMARY

Site No.	Station (From/To)	Structure Size	WETLAND IMPACTS				SURFACE WATER IMPACTS				DITCH IMPACTS			
			Fill In Wetlands (ha)	Temp. Fill In Wetland (ha)	Excavation In Wetlands (ha)	Mech Clearing (Method III) (ha)	Fill in SW (Natural) (ha)	Fill in SW (Pond) (ha)	Temp. Fill In SW (ha)	Existing Channel Impacted (m)	Relocated Channel (m)	Enclosed Channel (m)	Boussinesq Equation (ha)	
1	13+00 TO 18+60 -L-	1650mm	0.058		0.094		0.157			523		70	0.353	
2	28+10 -L-	900mm												
3	33+38 TO 33+75		0.409			0.026								
4	12+78 Rp 'B'		0.007			0.003								
5	12+42 -Y2-	2 - 2.4m x 2.1m					0.029			50		24		
6	82+00 TO 85+50 -L-		3.242			0.215								
PEE DEE RIVER BASIN (LUMBER RIVER) NO BUFFER REGULATIONS														
TOTALS			3.716	0	0.094	0.244	0.186	0	0	573	0	94	0.353	0

N.C. DEPT. OF TRANSPORTATION
 DIVISION OF HIGHWAYS
 ROBESON COUNTY
 PROJECT: 6469002T - R-513A
 Rev 4/2004
 Rev 3/2004
 APRIL 2002
 SHEET 14 OF 15



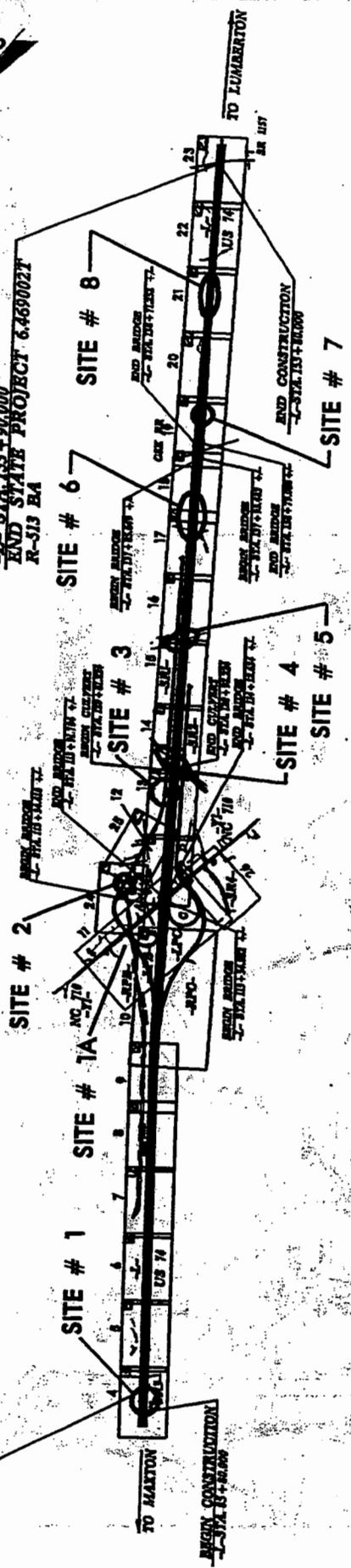
VICINITY MAP

NC DOT
 DIVISION OF HIGHWAYS
 ROBESON COUNTY
 PROJECT: 6.469002T (R-513BA)
 MAXTON-LUMBERTON
 US 74 FROM EAST OF SR 1166
 TO WEST OF SR 1157
 SHEET 2 OF 23 9/18/03



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

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



NCDOT

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

SITE LOCATION

WETLAND PERMIT IMPACT SUMMARY

Site No.	Station (From/To)	Structure Size / Type	WETLAND IMPACTS				SURFACE WATER IMPACTS						
			Fill In Wetlands (ac)	Temp. Fill In Wetlands (ac)	Excavation In Wetlands (ac)	Mechanized Clearing (Method III) (ac)	Fill In SW (Natural) (ac)	Fill In SW (Pond) (ac)	Temp. Fill In SW (ac)	Existing Channel Impacted (ft)	Natural Stream Design (ft)		
1	85+80 to 87+14.77 -L-	NONE	2.009			0.18							
1A	14+19.67 -RPB- 14+40 -Y1-	2 @ 2.4 m. x 1.8 m. RCBC 2 @ 2.4 m. x 1.8 m. RCBC	0.03		0.012		0.24					640	
2	12+66 -SR1-	2 @ 2.4 m. x 1.8 m. RCBC		0.002	0.002		0.049	0.015	0.017		135		
3	18+28 to 18+78 -SR1-	POND						0.133					
4	120+86 -L-	3 @ 3.0 m. x 2.7 m. RCBC					0.524				1132		
5	128+01 -L-	2 @ 1050 mm RCP					0.082				341		
6	134+00 to 136+00 -L-	2 @ 900 mm RCP and POND					0.079	0.126			338		
7	140+30 to 140+60 -L-	NONE	0.109			0.015							
8	145+58 to 148+15 -L-	3 @ 750 mm and 600 mm	2.265		0.007	0.304							
TOTALS:			4.413	0.002	0.021	0.499	0.974	0.274	0.017	2586	0		

NCDOT

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

WETLAND PERMIT IMPACT SUMMARY

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

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

WETLAND PERMIT IMPACT SUMMARY

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

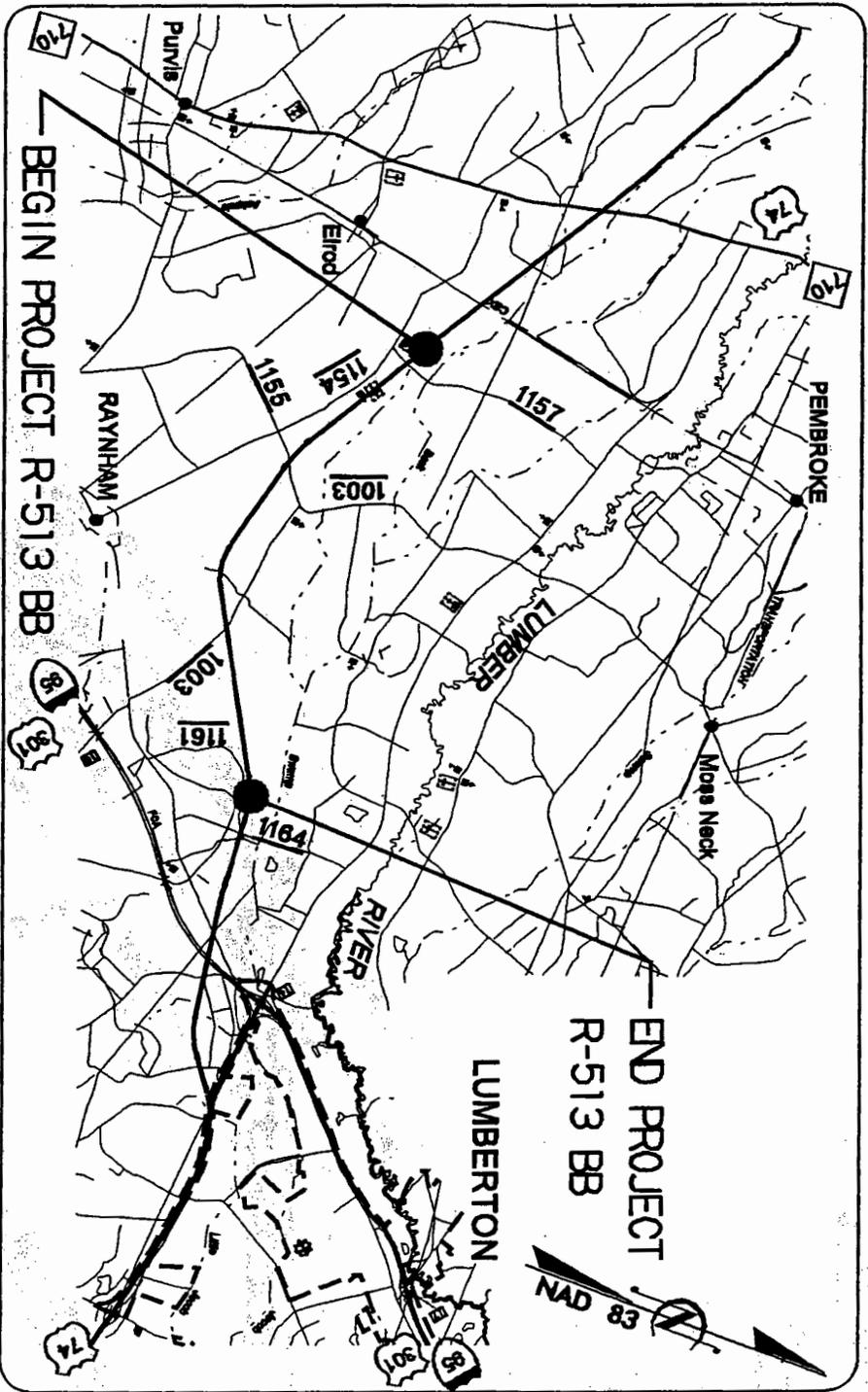
NC DOT
 DIVISION OF HIGHWAYS
 ROBESON COUNTY
 PROJECT 6.469002T (R-513BA)
 MAXTON-LUMBERTON
 US 74 FROM EAST OF SR 1166
 TO WEST OF SR 1157

WETLAND PERMIT IMPACT SUMMARY

Site No.	Station (From/To)	Structure Size / Type	WETLAND IMPACTS				SURFACE WATER IMPACTS						
			Fill In Wetlands (ha)	Temp. Fill In Wetlands (ha)	Excavation In Wetlands (ha)	Mechanized Clearing (Method III) (ha)	Fill In SW (Natural) (ha)	Fill In SW (Pond) (ha)	Temp. Fill In SW (ha)	Existing Channel Impacted (m)	Natural Stream Design (m)		
9	152+50.86 to 152+68.61 -L-	900 mm RCP					0.011						
SUB-TOTAL SHEET #1			1.786	0.001	0.009	0.202	0.394	0.111	0.007	788	0		
GRAND TOTAL:			1.786	0.001	0.009	0.202	0.405	0.111	0.007	788	0		

Form Revised 3/25/04

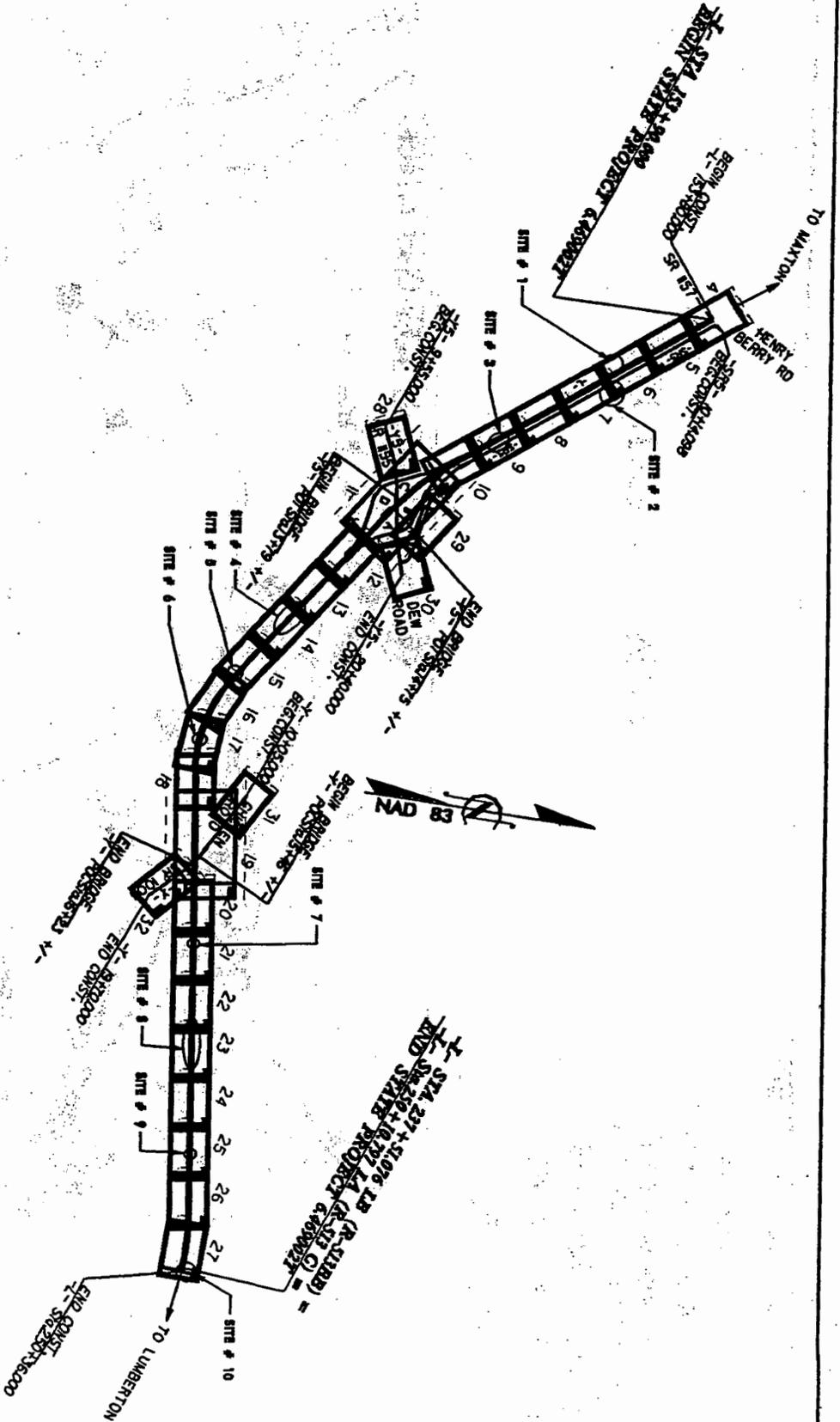
NCDOT
 DIVISION OF HIGHWAYS
 ROBESON COUNTY
 PROJECT 6.469002T (R-513BA)
 MAXTON-LUMBERTON
 US 74 FROM EAST OF SR 1166
 TO WEST OF SR 1157



VICINITY MAP

NC DOT
 DIVISION OF HIGHWAYS
 ROBESON COUNTY
 PROJECT: 6.469002T (R-513BB)
 MAXTON-LUMBERTON
 US 74 FROM WEST OF SR 1157
 TO WEST OF SR 1164
 SHEET 1 OF 18 9/18/05

SITE LOCATION



DIVISION OF HIGHWAYS

ROBESON COUNTY

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

MAXTON-LUMBERTON

US 74 FROM WEST OF SR 1157

TO WEST OF SR 1164

SHEET 2 OF 18

9/18/03

WETLAND PERMIT IMPACT SUMMARY

Site No.	Station (From/To)	Structure Size / Type	WETLAND IMPACTS				SURFACE WATER IMPACTS						
			Fill In Wetlands (ha)	Temp. Fill In Wetlands (ha)	Excavation In Wetlands (ha)	Mechanized Clearing (Method III) (ha)	Fill In SW (Natural) (ha)	Fill In SW (Pond) (ha)	Temp. Fill In SW (ha)	Existing Channel Impacted (m)	Natural Stream Design (m)		
1	160+92.65 to 161+44.08 -L-	NONE	0.121			0.014							
2	18+99.07 to 19+51.92 -SR5-	NONE	0.088			0.014							
3	170+04.90 to 172+15.80 -L-	1200 mm RCP	1.283		0.001	0.213		0.005					
4	188+99.69 to 191+93.46 -L-	1200 mm & 900 mm RCP	1.079		0.008	0.135							
5	194+51.36 to 195+93.06 -L-	1200 mm RCP	0.564			0.064							
6	200+20.89 -L-	750 mm RCP					0.009					75	
7	214+49.55 to 215+89.33 -L-	1200 mm RCP	0.657		0.004	0.085							
8	217+05.98 to 229+60.27 -L-	4 @ 1050 mm RCP	3.067		0.016	0.371							
9	229+60.27 -L-	900 mm RCP					0.019					63	
TOTALS:			6.859	0	0.029	0.896	0.028	0.005	0	138	0		

NCDOT

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

WETLAND PERMIT IMPACT SUMMARY

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

Form Revised 3/22/01

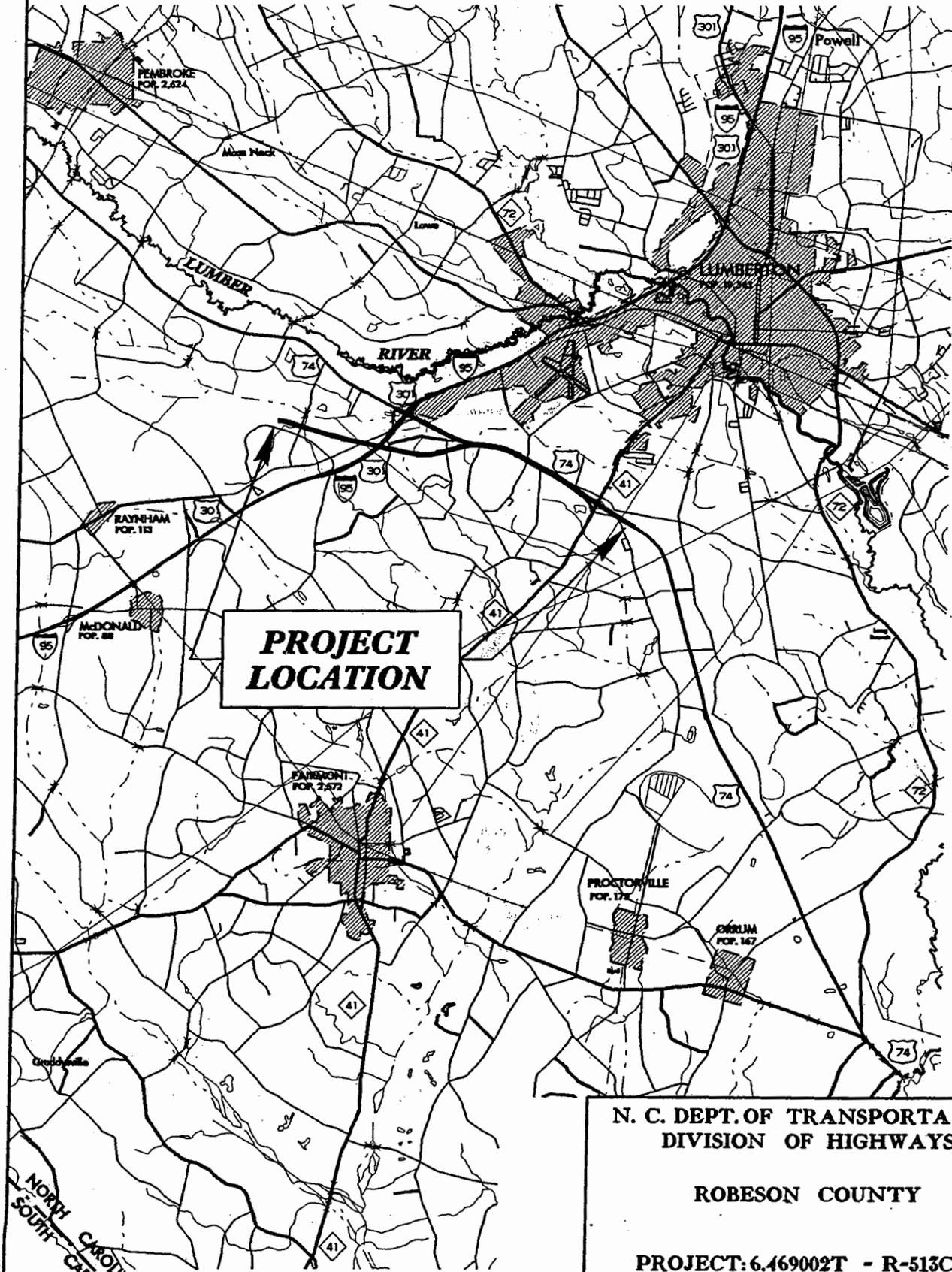
NCDOT

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

SHEET **17** OF **18**

9/18/2003

VICINITY MAP



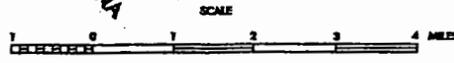
**PROJECT
LOCATION**

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

ROBESON COUNTY

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

**NORTH CAROLINA
SOUTH CAROLINA**



SITE MAP



BEGIN PROJECT

SITE 1
SITE 1A

SITE 6

SITE 7

SITE 2A
SITE 2

SITE 3

SITE 8

SITE 4

SITE 9

SITE 5

END PROJECT

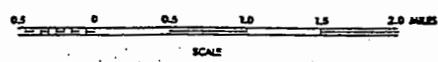
Back Swamp

LUMBERTON

● **WETLAND SITES**

■ **SURFACE WATER SITES**

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



N. C. DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS

ROBESON COUNTY

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

SHEET 3 OF 36

REV. OCT. 2003
JUNE, 2000

IMPACT SUMMARY

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

SITE 1: Wetlands considered total take
 Total fill, exc., boussinessq, mechanized clearing Impacts=
 Additional wetlands for total take=
 Total SITE 1 Impacts=
 Total R-513C Impacts = (12.44 + 4.47 + 0.61 + 0.01 + 1.55) =

4.00 acres
 4.47 acres
 8.47 acres
 19.08 acres

N.C. DEPT. OF TRANSPORTATION
 DIVISION OF HIGHWAYS
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IMPACT SUMMARY

WETLAND IMPACTS							SURFACE WATER IMPACTS					
Site No.	Station (From/To)	Structure Size	Fill In Wetlands (ha)	Temp. Fill In Wetlands (ha)	Excavation In Wetlands (ha)	Boussinesq Equation Impacts (ha)	Mechanized Clearing (Method III) (ha)	Fill In SW (Natural) (ha)	Fill In SW (Pond) (ha)	Existing Channel Impacted (m)	Relocated Channel (m)	Enclosed Channel (m)
1	250+34 TO 253+07 -L-	2.4 x 1.8 RCBC	1.457		0.14		0.019					
2	282+14 TO 282+72 -L- 12+23 TO 14+03 -Y8-		1.039		0.047		0.377					
3	285+59 TO 287+09 -L- 15+85 TO 18+27 -Y8-	2@1050 RCP	1.589		0.02		0.11	0.061		252		238
4	32+42 TO 33+42 -Y3-		0.472									
5	51+63 TO 53+56 -Y8-		0.438		0.036	0.004	0.101					
6	256+00 -L- LT & RT								0.217			
7	272+90 -L- LT & RT						0.005	0.1		322	145	237
8	290+85 -L-	1050 RCP						0.047		126		123
9	308+00 -L-							0.019		70		66
1A	252+00 TO 257+00 -L- 11+80 TO 13+50 -Y1-	1650 RCP						0.218		676		65
2A	6+50 -RP"D"		0.038				0.016					
TOTALS			5.033	0	0.243	0.004	0.628	0.445	0.217	1446	145	729

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