



STATE OF NORTH CAROLINA  
DEPARTMENT OF TRANSPORTATION

MICHAEL F. EASLEY  
GOVERNOR

LYNDO TIPPETT  
SECRETARY

October 31, 2003

U. S. Army Corps of Engineers  
Regulatory Field Office  
Post Office Box 1000  
Washington, NC 27889-1000

ATTENTION: Mr. Michael Bell  
NCDOT Coordinator

SUBJECT: **Nationwide Permit Application 23** for the proposed replacement of Bridge No. 60 on NC 96 over Hannah Creek, Johnston County. Federal Project No. BRSTP-96(3), State Project No. 8.1312501, T.I.P. No. B-3669.

Dear Sir:

Please find enclosed three copies of the project planning report for the above referenced project. The North Carolina Department of Transportation (NCDOT) proposes to replace Bridge No. 60 over Hannah Creek (DWQ Index # 27-52-6) Class "C NSW"). The project involves replacing Bridge no. 60 with a 150-foot cored slab bridge over Hannah Creek.

**IMPACTS TO WATERS OF THE UNITED STATES**

A small area of jurisdictional wetlands will be affected by the proposed project. The construction of bridge no. 60 will require mechanized clearing of 0.004 acres of wetland. There will be no need for a temporary workpad since top-down construction is feasible with the proposed 1@25'; 2@50'; 1@25' cored slab structure.

Bridge No. 60 is currently 103.0 ft. long and located on NC 96 over Hannah Creek in Johnston County. It has a reinforced concrete floor and the remainder of the bridge consists of timber. There is potential for the concrete components of the bridge to be dropped into Waters of the United States during construction, resulting in temporary fill of a maximum of approximately 24 cubic yards. Best Management Practices for Bridge Demolition and Removal will be followed.

## NEUSE RIVER BASIN RULES

This project is located in the Neuse River Basin; therefore the regulations pertaining to the Neuse River Buffer Rules will apply. No practical alternative analysis has been done, and the design has been evaluated to avoid and minimize impacts to buffers. There are 1045.0 square feet of impacts to Buffer Zone One and 500.0 square feet of impact to Zone Two.

### FEDERALLY-PROTECTED SPECIES

Plants and animals with federal classifications of Endangered, Threatened, Proposed Endangered, and Proposed Threatened are protected under provisions of Section 7 and Section 9 of the Endangered Species Act of 1973, as amended. As of 29 January 2003, the Fish and Wildlife Service (FWS) lists two federally protected species for Johnston County.

Biological Conclusions of “No Effect” were reached for all listed species. We have updated information for two species that had habitat: Dwarf wedgemussel (*Alasmidonta heterodon*) and Michaux’s sumac (*Rhus michauxii*). A site search for the Dwarf wedgemussel was conducted in January of 2002 and no individuals were found. Also, Michaux’s sumac was resurveyed in August of 2003 and no individuals were found. Therefore, in accordance with the most recent guidance from the USFWS, both the Dwarf wedgemussel and Michaux’s sumac received biological conclusions of may affect but not likely to adversely affect.

#### Federally-Protected Species for Johnston County

Common Name	Scientific Name	Status
Red-cockaded woodpecker	<i>Picoides borealis</i>	Endangered
Dwarf wedge mussel	<i>Alasmidonta heterodon</i>	Endangered
Tar spinymussel	<i>Elliptio steinstansana</i>	Endangered
Michaux's sumac	<i>Rhus michauxii</i>	Endangered

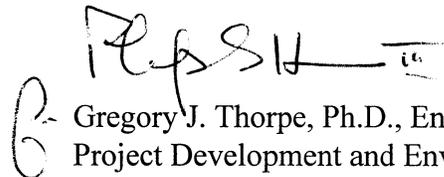
KEY: Endangered (a species that is in danger of extinction throughout all or a significant portion of its range).

### SUMMARY

This project is being processed by the Federal Highway Administration as a “Categorical Exclusion” in accordance with 23 CFR § 771.115(b). The NCDOT requests that these activities be authorized by a Nationwide Permit 23 (FR number 10, pages 2020-2095; January 15, 2002). We anticipate 401 General Certifications numbers 3361 and 3366 will apply to this project. In accordance with 15A NCAC 2H .0501(a) we are providing two copies of this application to the North Carolina Department of Environment and Natural Resources, Division of Water Quality, for their records.

Thank you for your assistance with this project. If you have any questions or need additional information please call Chris Manley at (919) 715-1487 or [cdmanley@dot.state.nc.us](mailto:cdmanley@dot.state.nc.us)

Sincerely,

  
Gregory J. Thorpe, Ph.D., Environmental Management Director  
Project Development and Environmental Analysis Branch

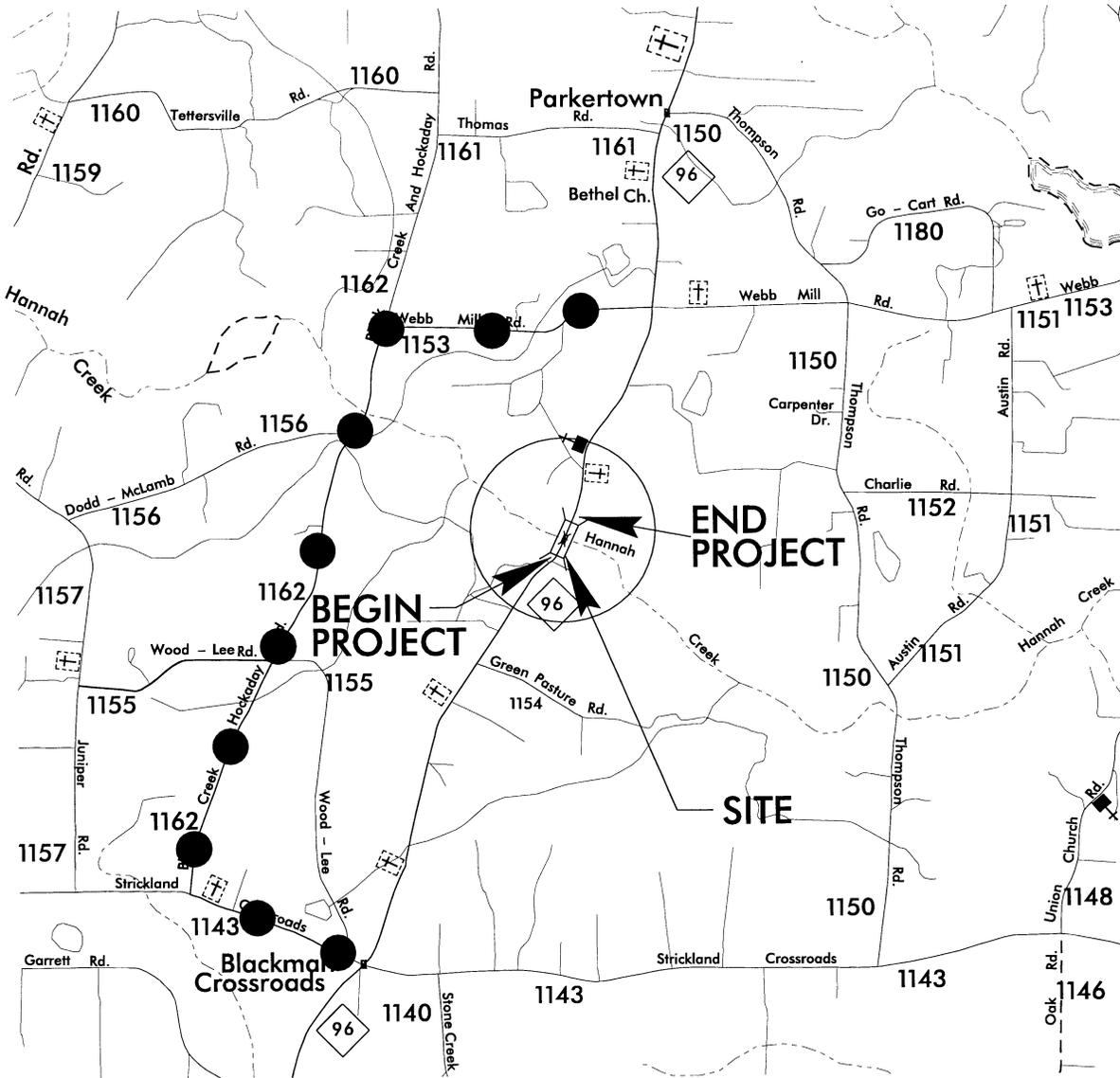
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Mr. John Dorney, Division of Water Quality (2 copies)  
Mr. Travis Wilson, NCWRC  
Mr. Gary Jordan, USFWS  
Mr. Greg Perfetti, P.E., Structure Design

w/o attachment

Mr. David Franklin, USACE, Wilmington  
Mr. Jay Bennett, P.E., Roadway Design  
Mr. Omar Sultan, Programming and TIP  
Ms. Debbie Barbour, P.E., Highway Design  
Mr. David Chang, P.E., Hydraulics  
Mr. Mark Staley, Roadside Environmental  
Mr. J. H. Trogdon, P.E., Division 4 Division Engineer  
Mr. Jamie Shern, Division 4 DEO  
Mr. William T Goodwin , PE, PDEA Project Planning Engineer)

# VICINITY MAP



**DETOUR ROUTE**



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

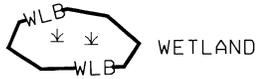
**JOHNSTON COUNTY**  
**PROJECT: 8.1312501 (B-3669)**

**REPLACEMENT OF BRIDGE NO. 60  
OVER HANNAH CREEK ON NC 96  
WETLAND PERMIT DRAWINGS**

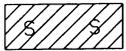
**SHEET 1 OF 6** **3/03**

# LEGEND

— WLB — WETLAND BOUNDARY



 DENOTES FILL IN WETLAND

 DENOTES FILL IN SURFACE WATER

 DENOTES FILL IN SURFACE WATER (POND)

 DENOTES TEMPORARY FILL IN WETLAND

 DENOTES EXCAVATION IN WETLAND

 DENOTES TEMPORARY FILL IN SURFACE WATER

 DENOTES MECHANIZED CLEARING

← — ← FLOW DIRECTION

— TB — TOP OF BANK

--- WE --- EDGE OF WATER

— C — PROP. LIMIT OF CUT

— F — PROP. LIMIT OF FILL

— ▲ — PROP. RIGHT OF WAY

— NG — NATURAL GROUND

— PL — PROPERTY LINE

— TDE — TEMP. DRAINAGE EASEMENT

— PDE — PERMANENT DRAINAGE EASEMENT

— EAB — EXIST. ENDANGERED ANIMAL BOUNDARY

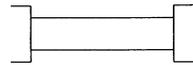
— EPB — EXIST. ENDANGERED PLANT BOUNDARY

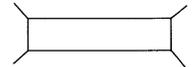
--- ▽ --- WATER SURFACE

X X X LIVE STAKES

 BOULDER

--- CORE FIBER ROLLS

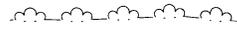
 PROPOSED BRIDGE

 PROPOSED BOX CULVERT

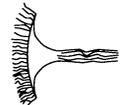
 PROPOSED PIPE CULVERT

(DASHED LINES DENOTE EXISTING STRUCTURES)

 SINGLE TREE

 WOODS LINE

 DRAINAGE INLET

 ROOTWAD

 RIP RAP

 5  
ADJACENT PROPERTY OWNER OR PARCEL NUMBER IF AVAILABLE

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02/19/2003

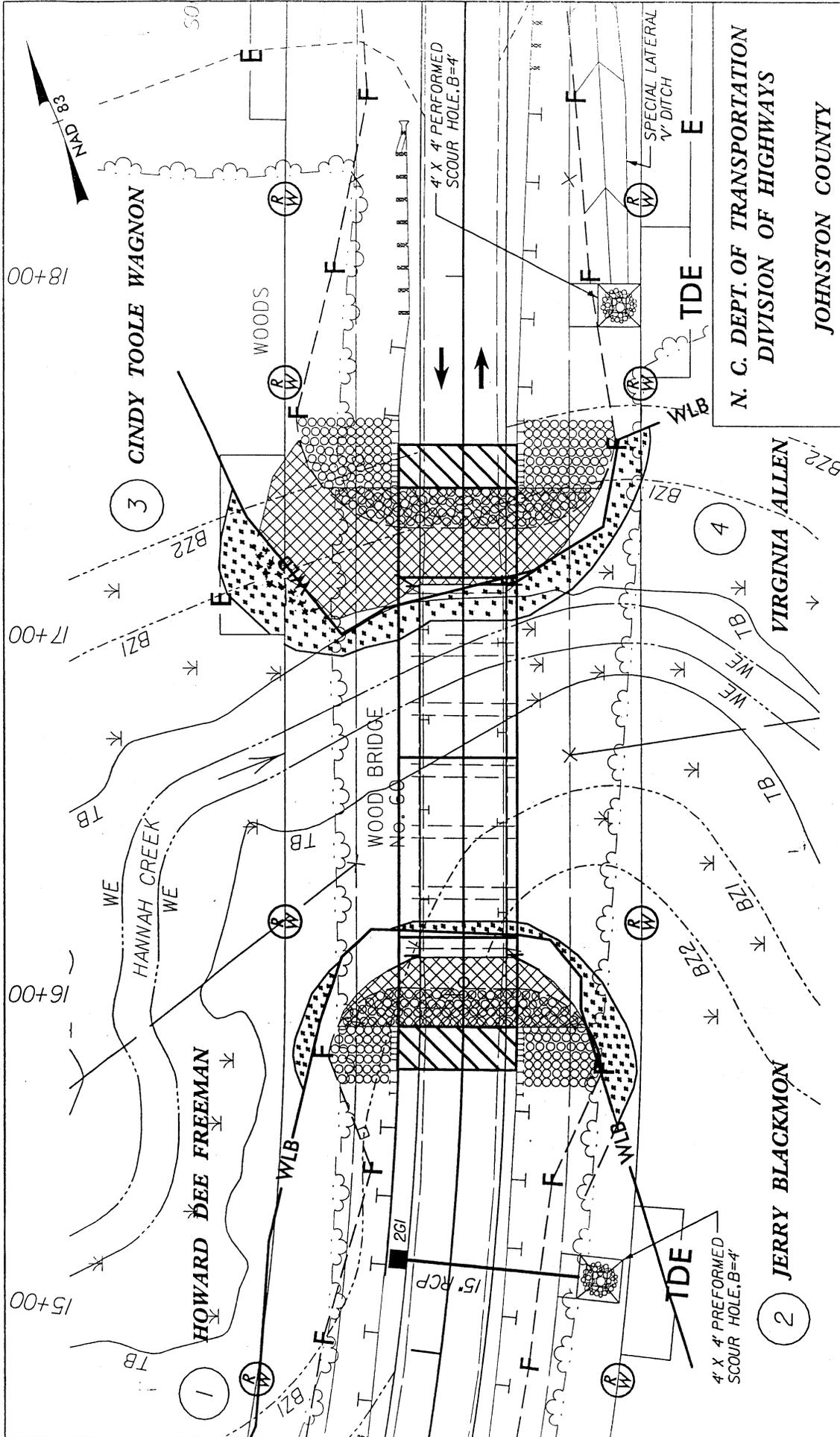
**N. C. DEPT. OF TRANSPORTATION  
DIVISION OF HIGHWAYS**

**JOHNSTON COUNTY  
PROJECT: 8.1312501 (B-3669)**

**REPLACEMENT OF BRIDGE NO. 60  
OVER HANNAH CREEK ON NC 96**

**SHEET 2 OF 6**

**3/03**



# PLAN VIEW



-  DENOTES MECHANIZED CLEARING
-  DENOTES EXCAVATION

N. C. DEPT. OF TRANSPORTATION  
DIVISION OF HIGHWAYS

JOHNSTON COUNTY  
PROJECT: 8.1312501 (B-3669)

REPLACEMENT OF BRIDGE NO. 60  
OVER HANNAH CREEK ON NC 96

SHEET 3 OF 6

03

130

120

110

100

15

16

17

18

$\varnothing$  STA 16+66.00 -L-  
 1 @ 25'.2 @ 50' AND 1 @ 25'  
 OVERALL LENGTH = 150'  
 2" CORED SLAB  
 $\varnothing$  ELEV. = 119.82  
 90° SKEW

EXISTING BRIDGE AND ROADWAY WITH 0.016% GRADE

0.3400%

NATURAL FLOODPLAIN

PROPOSED BRIDGE WITH 0.34% GRADE

NORMAL W.S.E.L. = 112.5  
(9-05-02)

VERT: 25 0 50



HORIZ: 20 0 40



DENOTES EXCAVATION



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DIVISION OF HIGHWAYS

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REPLACEMENT OF BRIDGE NO. 60  
OVER HANNAH CREEK ON NC 96

SHEET 4 OF 6

3/03

**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	15+79/17+53 -L-	150' Bridge				0.05											
<b>TOTALS:</b>			0	0	0	0.05	0	0	0	0	0	0	0	0	0	0	0

NC DEPARTMENT OF TRANSPORTATION  
 DIVISION OF HIGHWAYS  
 JOHNSTON COUNTY  
 PROJECT 8.1312501 (B-3669)

# PROPERTY OWNER

NAME AND ADDRESS

	<i>OWNER'S NAME</i>	<i>ADDRESS</i>
①	<i>HOWARD DEE FREEMAN</i>	<i>P.O. BOX 804 PRINCETON, NC 27569</i>
②	<i>JERRY BLACKMON</i>	<i>1233 KENAN RD. FOUR OAKS, NC 27524</i>
③	<i>CINDY TOOLE WAGNON</i>	<i>4250 HWY 96 SOUTH FOUR OAKS, NC 27524</i>
④	<i>VIRGINIA ALLEN</i>	<i>4291 NC 96 SOUTH FOUR OAKS, NC 27524</i>

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

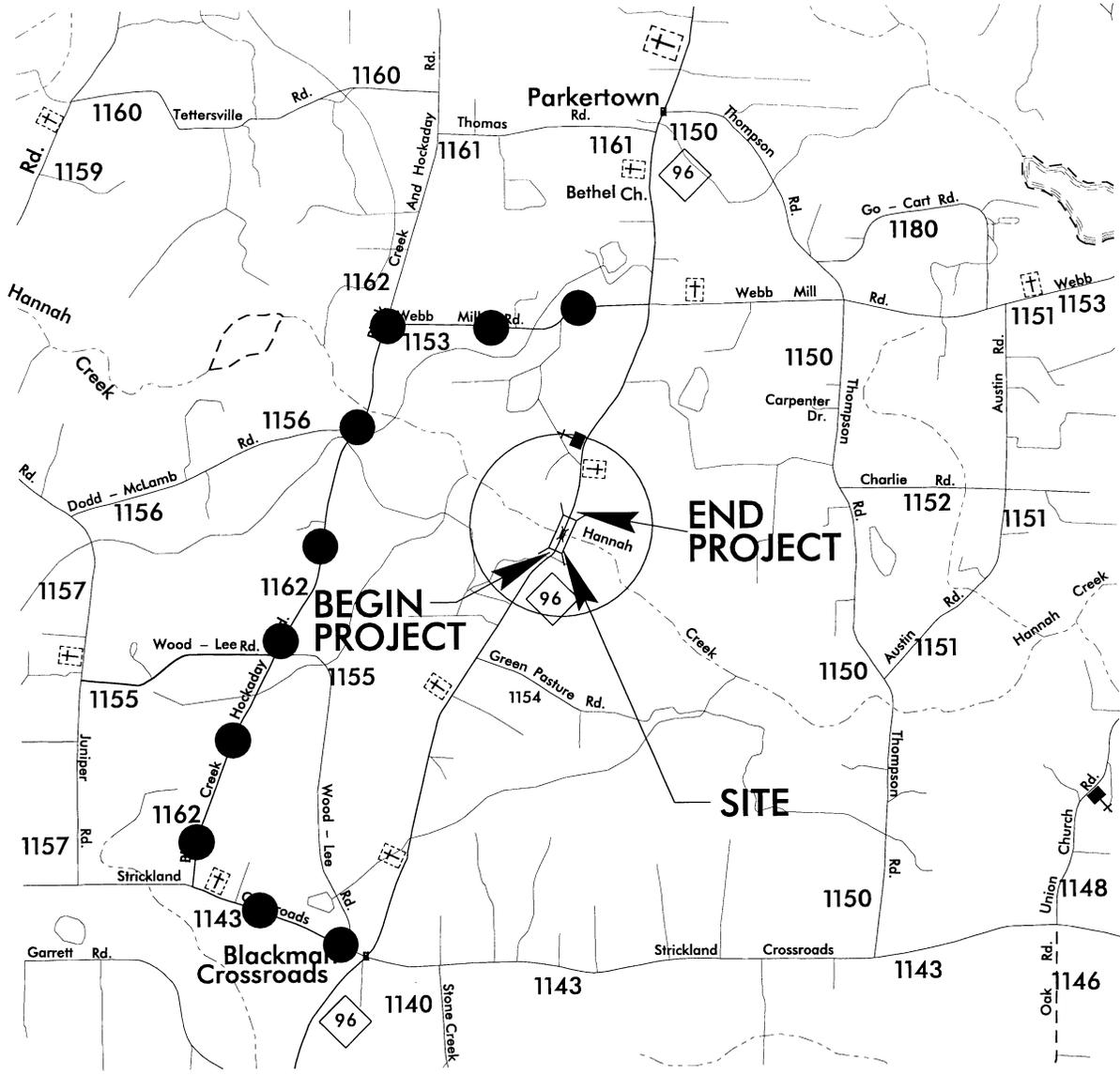
**JOHNSTON COUNTY  
PROJECT: 8.1312501 (B-3669)**

**REPLACEMENT OF BRIDGE NO. 60  
OVER HANNAH CREEK ON NC 96**

**SHEET 6 OF 6**

**3/03**

# VICINITY MAP



**DETOUR ROUTE**

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

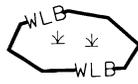
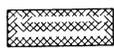
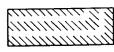
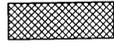
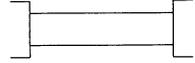
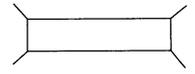
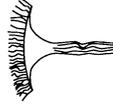
**JOHNSTON COUNTY**  
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**REPLACEMENT OF BRIDGE NO. 60  
OVER HANNAH CREEK ON NC 96  
BUFFER DRAWINGS**

**SHEET 1 OF 6** **3/03**

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# BUFFER LEGEND

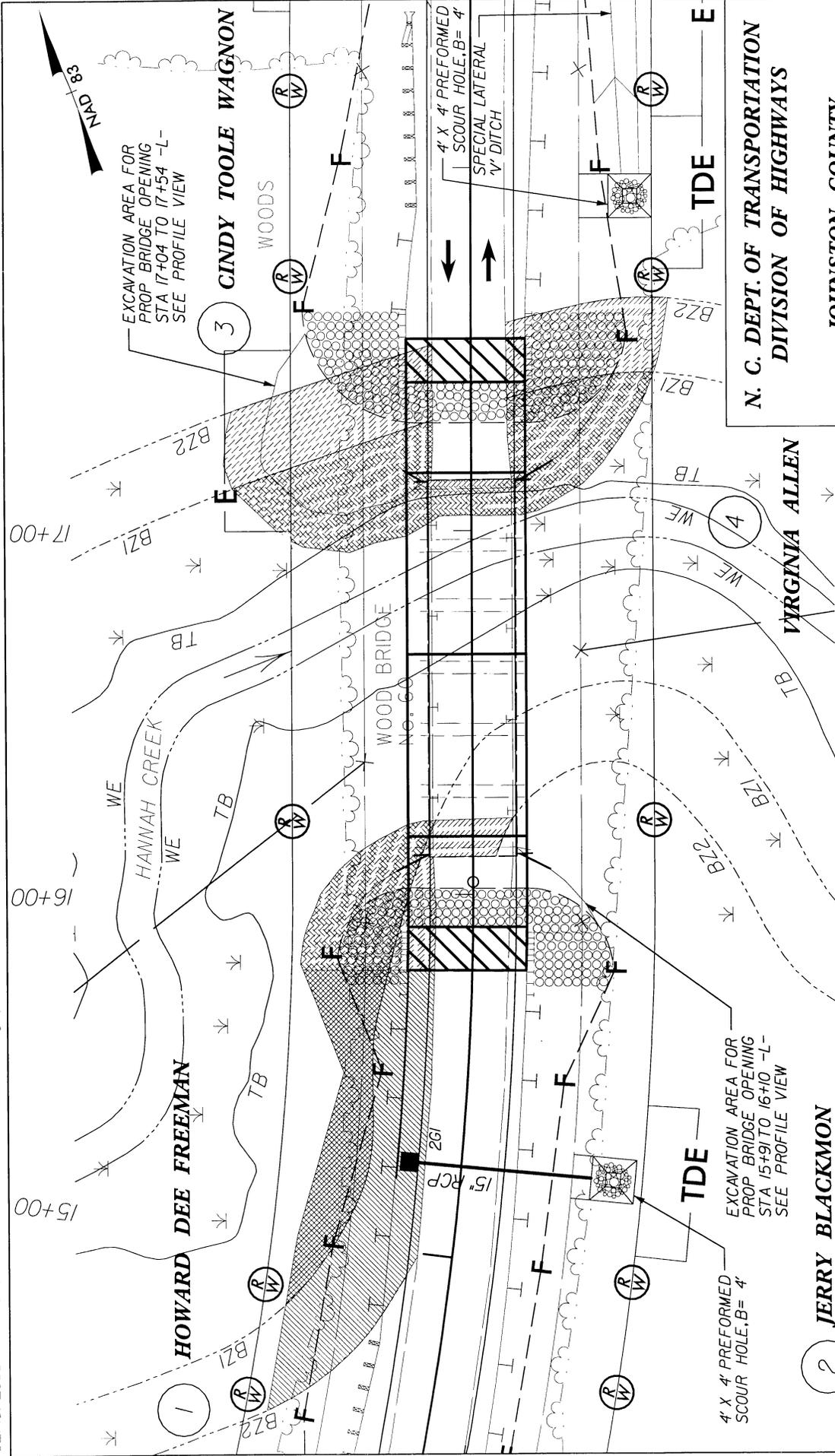
<p>— WLB — WETLAND BOUNDARY</p> <p> WETLAND</p> <p> ALLOWABLE IMPACTS ZONE 1</p> <p> ALLOWABLE IMPACTS ZONE 2</p> <p> MITIGABLE IMPACTS ZONE 1</p> <p> MITIGABLE IMPACTS ZONE 2</p> <p>--- BZ --- RIPARIAN BUFFER ZONE</p> <p>--- BZ1 --- RIPARIAN BUFFER ZONE 1 30 ft (9.2m)</p> <p>--- BZ2 --- RIPARIAN BUFFER ZONE 2 20 ft (6.1m)</p> <p>← ← FLOW DIRECTION</p> <p>— TB — TOP OF BANK</p> <p>--- WE --- EDGE OF WATER</p> <p>— C — PROP. LIMIT OF CUT</p> <p>— F — PROP. LIMIT OF FILL</p> <p>— ▲ — PROP. RIGHT OF WAY</p> <p>— NG — NATURAL GROUND</p> <p>— PL — PROPERTY LINE</p> <p>— TDE — TEMP. DRAINAGE EASEMENT</p> <p>— PDE — PERMANENT DRAINAGE EASEMENT</p> <p>— EAB — EXIST. ENDANGERED ANIMAL BOUNDARY</p> <p>— EPB — EXIST. ENDANGERED PLANT BOUNDARY</p> <p>— ▽ --- WATER SURFACE</p>	<p> LIVE STAKES</p> <p> BOULDER</p> <p>--- CORE FIBER ROLLS</p> <p> PROPOSED BRIDGE</p> <p> PROPOSED BOX CULVERT</p> <p> PROPOSED PIPE CULVERT</p> <p>(DASHED LINES DENOTE EXISTING STRUCTURES)</p> <p> SINGLE TREE</p> <p> WOODS LINE</p> <p> DRAINAGE INLET</p> <p> ROOTWAD</p> <p> RIP RAP</p> <p> ADJACENT PROPERTY OWNER OR PARCEL NUMBER IF AVAILABLE</p>
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**N. C. DEPT. OF TRANSPORTATION  
DIVISION OF HIGHWAYS**

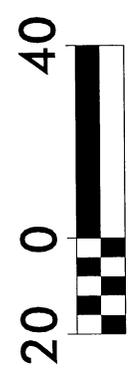
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**REPLACEMENT OF BRIDGE NO. 60  
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2 JERRY BLACKMON



**BUFFER LEGEND**

	DENOTES ALLOWABLE IMPACTS - ZONE 1
	DENOTES ALLOWABLE IMPACTS - ZONE 2
	BZ1 - 30 ft (9.2m)
	BZ2 - 20 ft (6.1m)
	RIPARIAN BUFFER ZONE 1
	RIPARIAN BUFFER ZONE 2

# PLAN VIEW

N. C. DEPT. OF TRANSPORTATION  
 DIVISION OF HIGHWAYS

JOHNSTON COUNTY  
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REPLACEMENT OF BRIDGE NO. 60  
 OVER HANNAH CREEK ON NC 96

SHEET 3 OF 6 3/03

**130**

**120**

**110**

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CL STA 16+66.00 -L-  
 1 @ 25'.2 @ 50' AND 1 @ 25'  
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 2" CORED SLAB  
 CL ELEV. = 119.82  
 90° SKEW

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0.3400%

NATURAL FLOODPLAIN

NORMAL W.S.E.L. = 112.5  
(9-05-02)

PROPOSED BRIDGE WITH 0.34% GRADE

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**VERT:** 25 0 50  


**HORIZ:** 20 0 40  


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REPLACEMENT OF BRIDGE NO. 60  
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SHEET 4 OF 6

3/03



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*ADDRESS*

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4

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**SHEET 6 OF 6**

**3/03**

