



STATE OF NORTH CAROLINA  
DEPARTMENT OF TRANSPORTATION

BEVERLY PERDUE  
GOVERNOR

DR. EUGENE CONTI, JR.  
SECRETARY

January 21, 2008

Eric Alsmeyer  
USACE Raleigh Regulatory Field Office  
3331 Heritage Trade Drive, Suite 105  
Wake Forest, NC 27857

**Subject:** **Additional information for Section 404 NW 23 and 33, Permit Modification of Section 401 and Neuse Buffer Authorization.** The proposed improvements to SR 1959 (South Miami Boulevard) from South of SR 2112 (Methodist Street) to North of SR 1960 (Bethesda Avenue) in Durham County, Federal Aid Project No. STP-1959 (2); WBS 40221.1.1; Division 5; TIP No. U-4011.

**Reference:** 1. NCDOT permit application (November 17, 2008)  
2. NCDENR-DWQ 401 Water Quality Certification (December 2, 2008) DWQ  
Project No. 20081715

\$240.00 debit from WBS 40221.1.1

Dear Sir:

The impacts for the stream located at station 24+80 – 24+89-L-, 24+81-24+87-L-, and 24+83-24+88-L- (Site 3) were not included in the above-referenced permit application. A site visit with Rob Ridings of the Division of Water Quality (DWQ) and Eric Alsmeyer of the US Army Corp of Engineers (USACE) was conducted on December 5, 2008. Eric Alsmeyer classified the feature intermittent, unimportant requiring no mitigation. Rob Ridings classified the portion of the feature being impacted as ephemeral, not subject to the riparian Buffer Rules.

Enclosed is an updated set of permit drawings for Wetland and Surface Water. The Buffer drawings did not change. The enclosed drawings replace the drawings sent on November 17, 2008.

**Site 3**

**Background:**

The permanent and temporary impacts to the intermittent but unimportant stream located at station 24+80 – 24+89-L-, 24+81-24+87-L-, and 24+83-24+88-L- were not on the permit drawings for the permit application sent on November 17, 2008. The permit drawings have been updated to reflect the impacts both permanent and temporary impacts to this feature. Also, the impacts at this location are now reflected as Site 3.

Jurisdictional Changes:

The installation of the 36-inch pipe and an erosion pad will result in 27 linear feet of permanent stream impacts and 10 linear feet of temporary impacts.

**REGULATORY APPROVALS**

Section 404 Permit: The 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 (Federal Register Vol. 72, No. 47 Pages 11092-11198, March 12, 2007). It is anticipated that the temporary impacts will be authorized under Section 404 Nationwide Permit 33 for the causeways. We are therefore also requesting the issuance of a Nationwide Permit 33.

Section 401 Water Quality Certification: We request a permit modification to the Section 401 and Neuse Buffer Authorization dated November 21, 2008. Written concurrence is required and in accordance with 15A NCAC 2H, Section .0500(a) and 15A NCAC 2B.0200 we are providing five copies of this Modification application to the North Carolina Department of Environment and Natural Resources, Division of Water Quality, for their review.

Buffer Permit: This project has been designed to comply with the Neuse Riparian Buffer Regulations (15A NCAC 2B.0242). No modification is required for the Neuse Riparian Buffer Authorization

If you have any questions or need additional information, please call Sara Easterly at (919) 431-1605.

Sincerely,  
  
for Gregory J. Thorpe, Ph.D.  
Environmental Management Director,

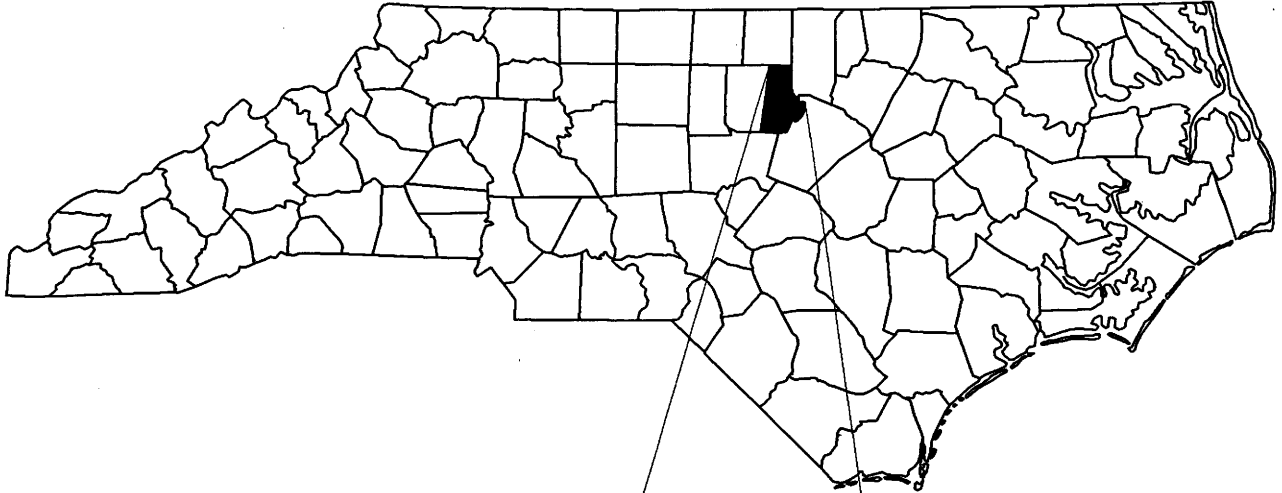
w/attachment

Mr. Brian Wrenn, NCDWQ (5 Copies)  
Mr. J. Wally Bowman, PE., Division Engineer  
Mr. Chris Murray, DEO

W/o attachment (see website for attachments)

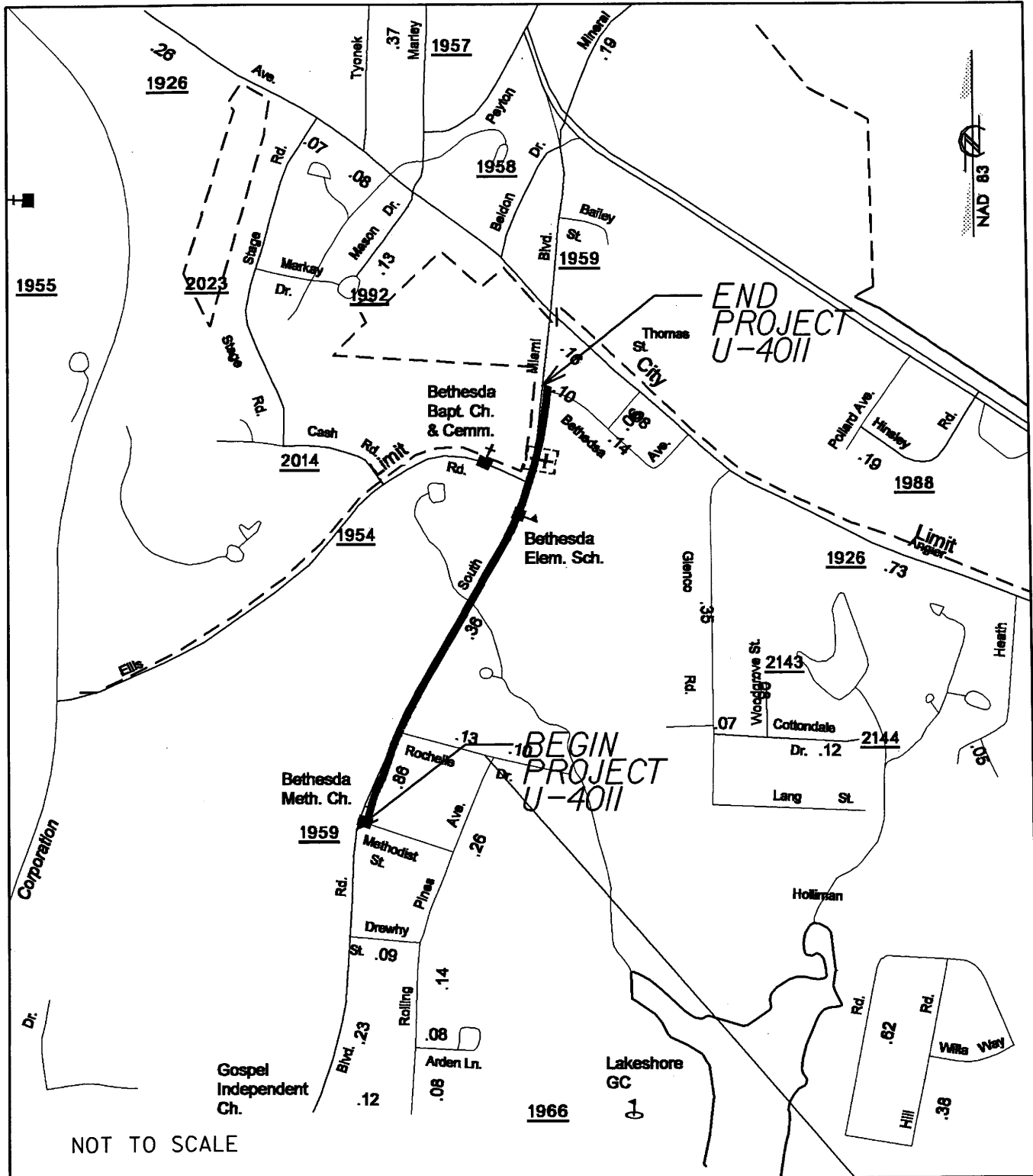
Dr. David Chang, P.E., Hydraulics  
Mr. Mark Staley, Roadside Environmental Unit  
Mr. Greg Perfetti, P.E., Structure Design  
Mr. Victor Barbour, P.E., Project Services Unit  
Mr. Jay Bennett, P.E., Roadway Design  
Mr. Majed Alghandour, P. E., Programming and TIP  
Mr. Art McMillan, P.E., Highway Design  
Mr. Scott McLendon, USACE, Wilmington  
Mr. Gary Jordan, USFWS  
Mr. Travis Wilson, NCWRC  
Mr. Steve Brown, PDEA

# NORTH CAROLINA



## WETLAND AND SURFACE WATER VICINITY MAPS

**NCDOT**  
DIVISION OF HIGHWAYS  
DURHAM COUNTY  
PROJECT: 40221.1.1 (U-4011)  
SR 1959 (S. MIAMI BLVD) FROM  
SOUTH OF SR 2112 (METHODIST ST) TO  
NORTH OF SR 1960 (BETHESDA AVE)

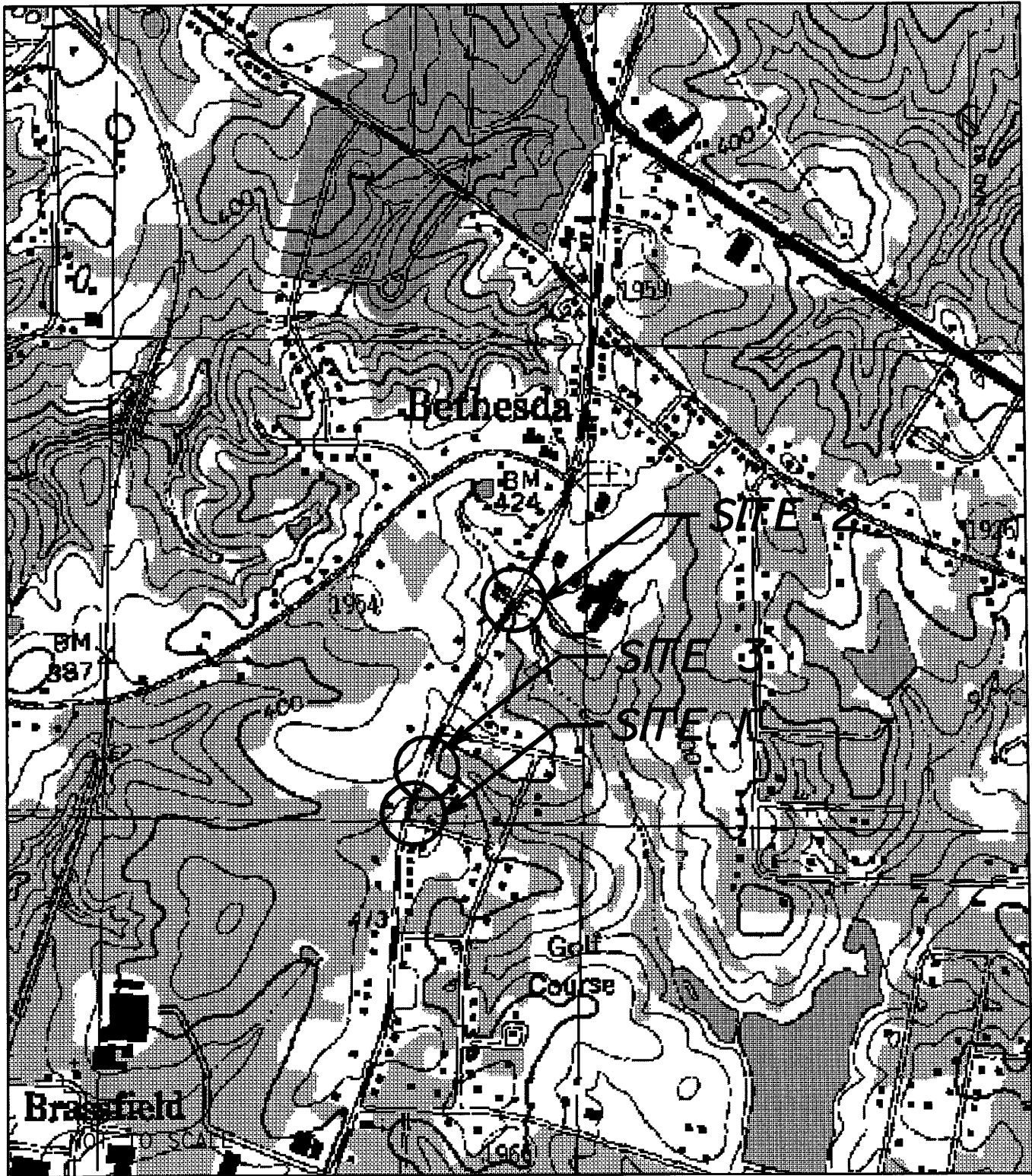


**WETLAND AND SURFACE WATER  
VICINITY  
MAPS**

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

PROJECT: 40221.1.1 (U4011)

SR 1959 (S. MIAMI BLVD) FROM  
S. OF SR 2112 (METHODIST ST) TO  
N. OF SR 1960 (BETHESDA AVE)  
SHEET 2 OF 12



**WETLAND AND SURFACE WATER  
VICINITY  
MAPS**

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

**PROJECT: 40221.1.1 (U4011)**

**SR 1959 (S. MIAMI BLVD) FROM  
S. OF SR 2112 (METHODIST ST) TO  
N. OF SR 1960 (BETHESDA AVE)  
SHEET 3 OF 12**

**SITE 1**

F DENOTES FILL IN WETLAND

\*\* DENOTES MECHANIZED CLEARING

WCR

F

15"

**PROP R**

NCDOT

DIVISION OF HIGHWAYS  
DURHAM COUNTY

PROJECT: 40221.1.1 (U-401D)

SR 1959 (S. MIAMI BLVD) FROM  
SOUTH OF SR 2112 (METHODIST ST) TO  
NORTH OF SR 1960 (BETHESDA AVE)

SHEET 4 OF 12

21/09/09

330  
0.37

DIP

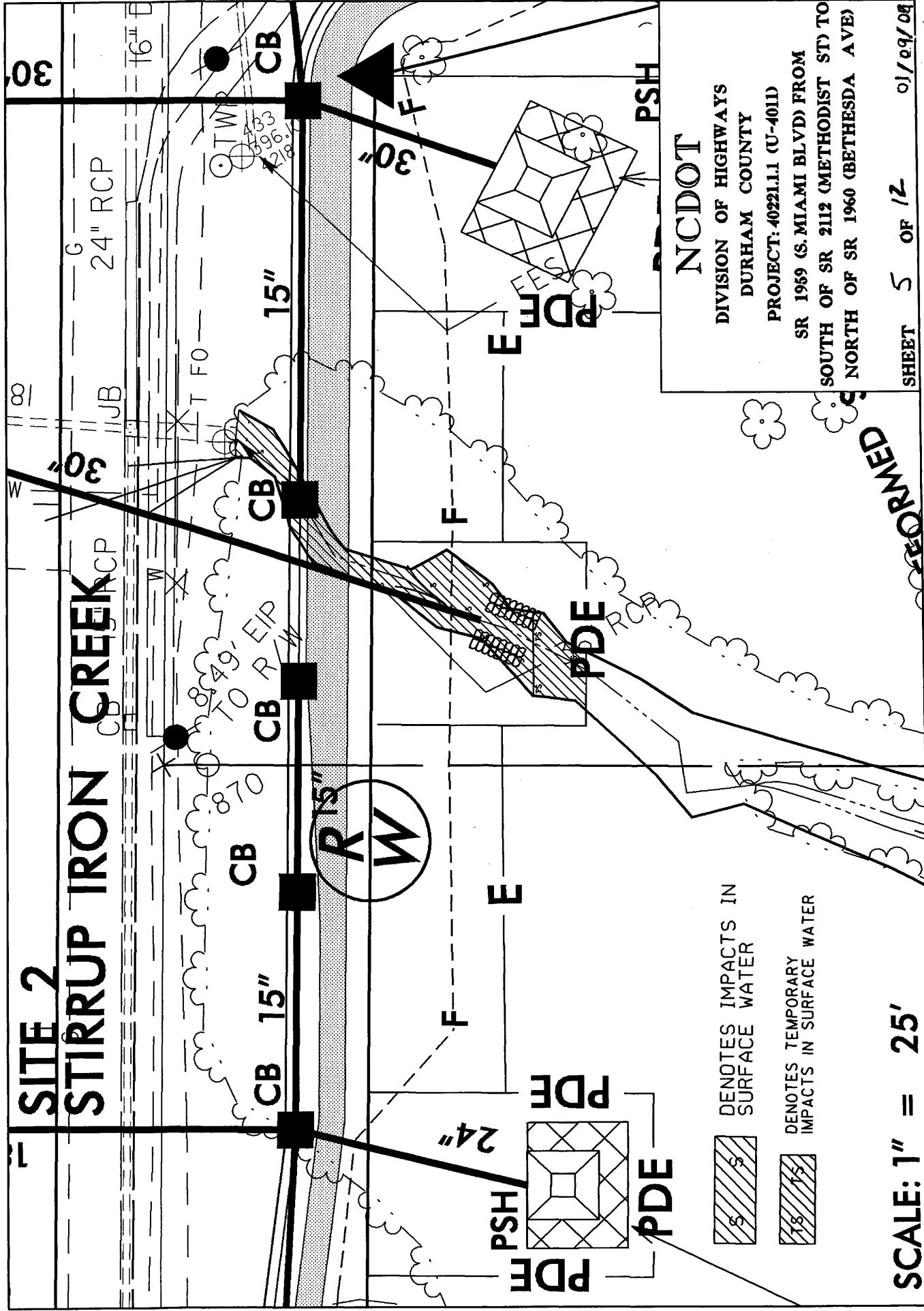
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CB 5

15"

CB

SCALE : 1" = 10'



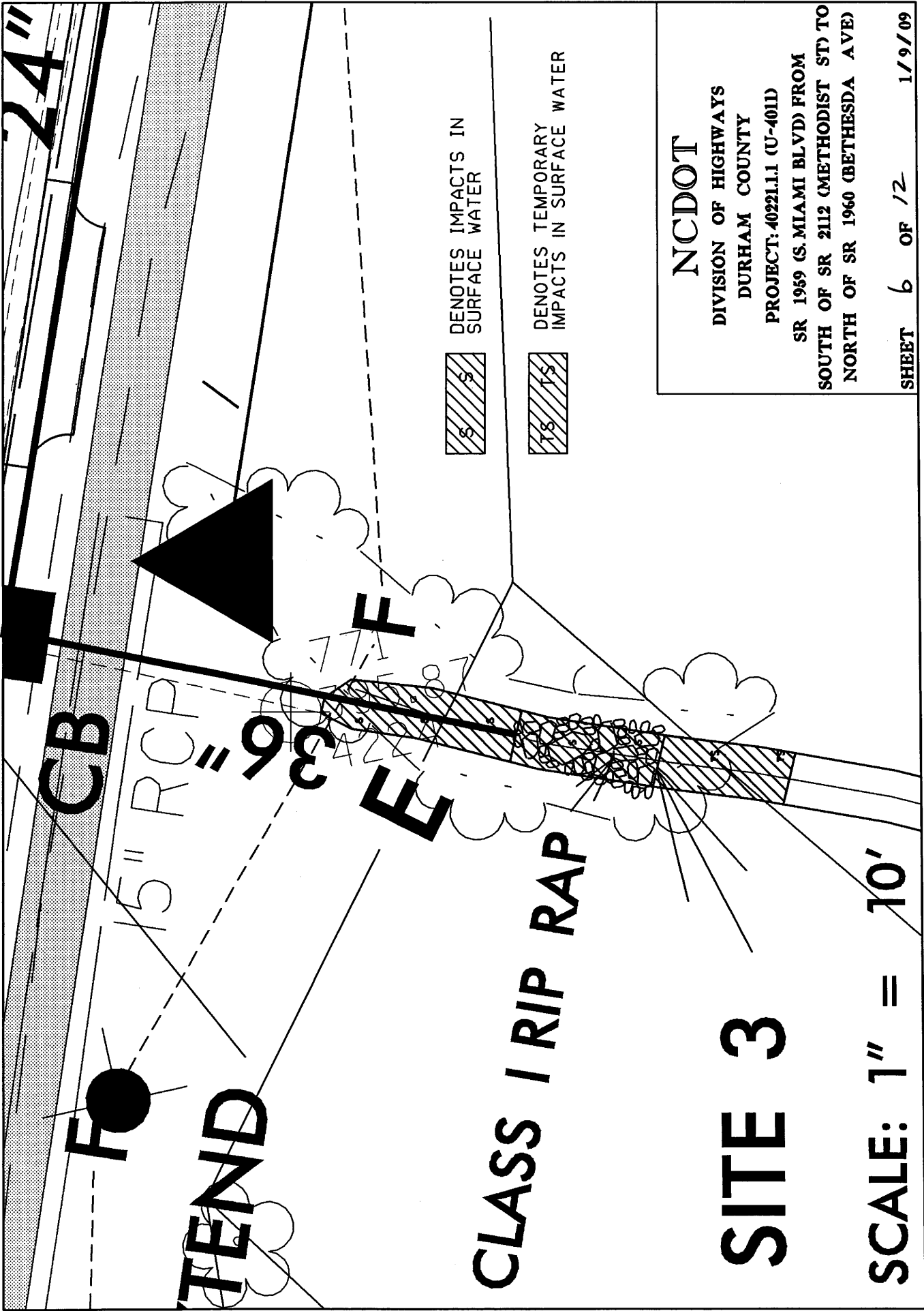
NCDOT  
 DIVISION OF HIGHWAYS  
 DURHAM COUNTY  
 PROJECT: 40221.1.1 (U-4011)  
 SR 1959 (S. MIAMI BLVD) FROM  
 SOUTH OF SR 2112 (METHODIST ST) TO  
 NORTH OF SR 1960 (BETHESDA AVE)

SHEET 5 OF 12  
 01/09/04

S DENOTES IMPACTS IN SURFACE WATER  
 TS DENOTES TEMPORARY IMPACTS IN SURFACE WATER

SCALE: 1" = 25'

FORMED



24"

TEND

CB

15" RCP

98

E

F

CLASS 1 RIP RAP

SITE 3

SCALE: 1" = 10'

DENOTES IMPACTS IN SURFACE WATER



DENOTES TEMPORARY IMPACTS IN SURFACE WATER



**NCDOT**  
 DIVISION OF HIGHWAYS  
 DURHAM COUNTY  
 PROJECT: 40221.1 (U-401D)  
 SR 1989 (S. MIAMI BLVD) FROM  
 SOUTH OF SR 2112 (METHODIST ST) TO  
 NORTH OF SR 1960 (BETHESDA AVE)

SHEET 6 OF 12 1/9/09



**WETLAND PERMIT IMPACT SUMMARY**

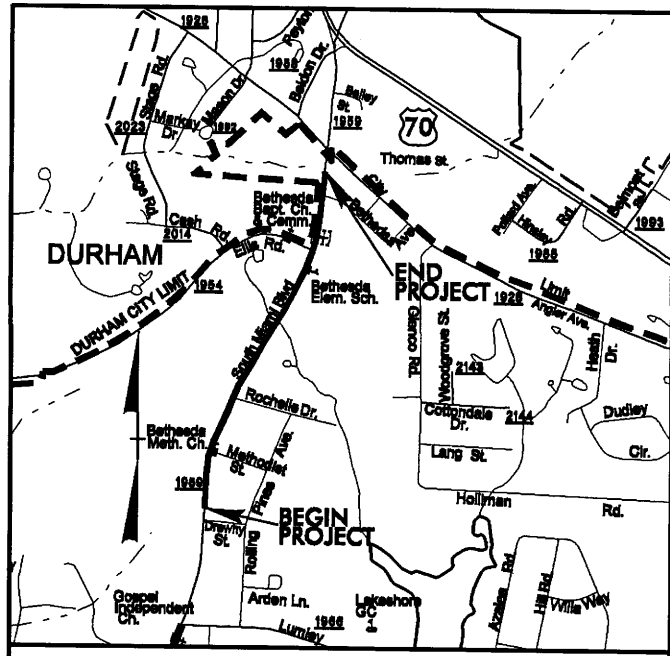
Site No.	Station (From/To)	Structure Size / Type	WETLAND IMPACTS					SURFACE WATER IMPACTS								
			Permanent Fill In Wetlands (ac)	Temp. Fill In Wetlands (ac)	Excavation in Wetlands (ac)	Mechanized Clearing in Wetlands (ac)	Hand Clearing in Wetlands (ac)	Permanent SW impacts (ac)	Temp. SW impacts (ac)	Existing Channel Impacts Permanent (ft)	Existing Channel Impacts Temp. (ft)	Natural Stream Design (ft)				
1	12+52 - 12+77 -Y-		<0.01			<0.01										
3	24+80 - 24+89 -L-	36" RCP								<0.01			16			
	24+81 - 24+87 -L-	Erosion Pad											11			
	24+83 - 24+88 -L-													10		
2	36+76 - 37+18 -L-	30" RCP									0.01		61			
	36+76 - 37+18 -L-	Channel Stab.											10			
	36+64 - 36+91 -L-													11		
<b>TOTALS:</b>			<0.01			<0.01				0.01		<0.01	98	21		

NC DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS

DURHAM COUNTY  
WBS - 40221.1.1 (U-4011)

SHEET **7** TODAY **12** 1/9/2009

TIP PROJECT: U-4011



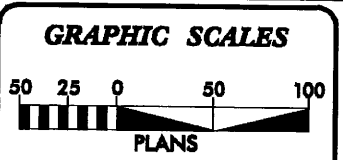
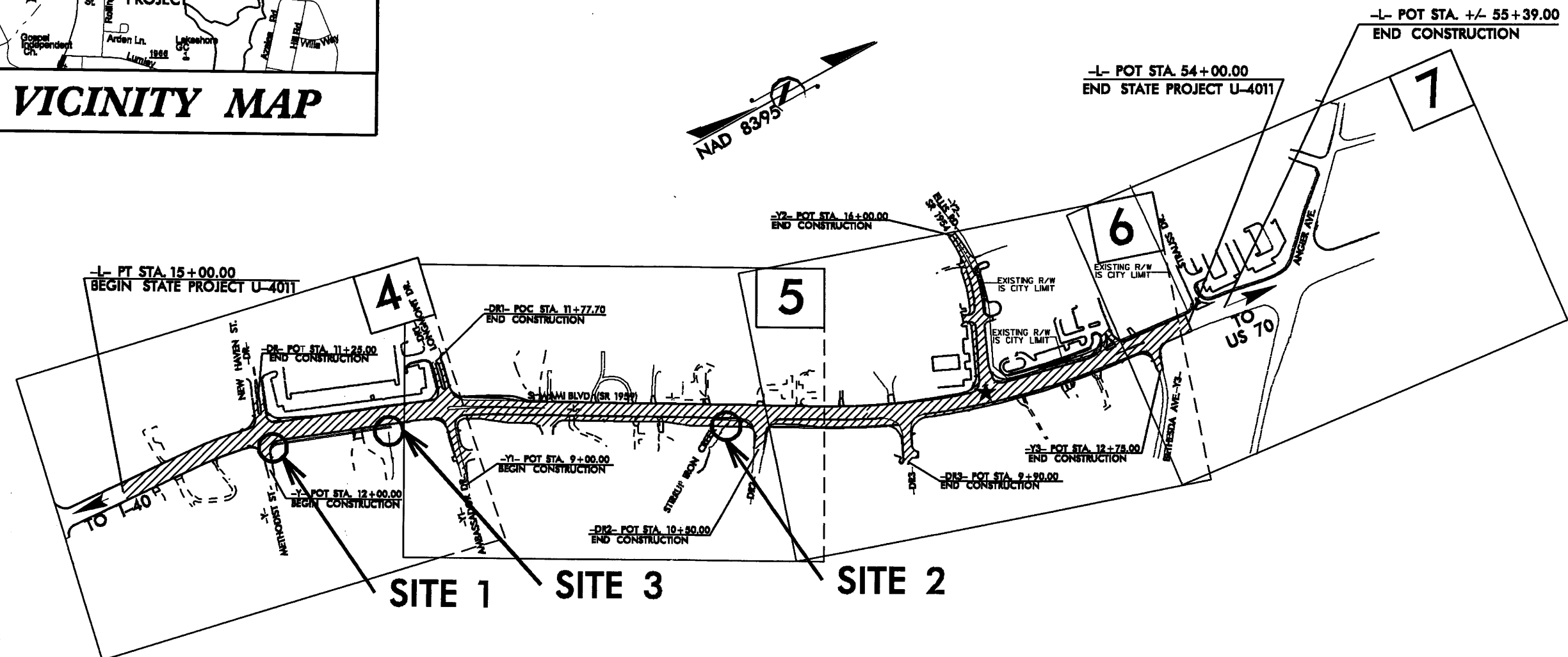
**VICINITY MAP**

STATE OF NORTH CAROLINA  
DIVISION OF HIGHWAYS

**DURHAM COUNTY**

**LOCATION: SR 1959 (SOUTH MIAMI BLVD.) FROM SOUTH OF SR 2112 (METHODIST ST.) TO NORTH OF SR 1960 (BETHESDA AVE.)**

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	U-4011	1	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	
40221.1.1	STP-1959(2)	PE	
40221.2.1	STP-1959(2)	RW & UTILITIES	
		Permit Drawing	
		Sheet 8 of 12	



**WETLAND AND SURFACE WATER  
SITE MAP**

NOT TO SCALE

DIVISION OF HIGHWAYS  
STATE OF NORTH CAROLINA

STATE HIGHWAY DESIGN ENGINEER

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**CONTRACT:**



PROJECT REFERENCE NO.	SHEET NO.
U-4011	4
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
INCOMPLETE PLANS DO NOT USE FOR A/W ACQUISITION	
PRELIMINARY PLANS DO NOT USE FOR CONSTRUCTION	
Permit Drawing Sheet 10 of 12	

L- POT STA. 15+00.00  
BEGIN STATE PROJECT U-4011  
BEGIN CONSTRUCTION

-DR- POT STA. 11+43.77  
-DR- POT STA. 11+25.00  
END CONSTRUCTION

-Y- POT STA. 13+30.11  
-DR- POT STA. 10+00.00  
-L- POC STA. 20+41.74

-L- PC STA. 25+49.68





-Y- POT STA. 12+00.00  
BEGIN CONSTRUCTION

-Y- POT STA. 11+00.00

SITE 1

SITE 3

-L- STA. 26+00  
MATCHLINE

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

FOR -L- PROFILE SEE SHEET 8  
FOR -Y- PROFILE SEE SHEET 9  
FOR -DR- PROFILE SEE SHEET 10

REVISIONS

8/17/99

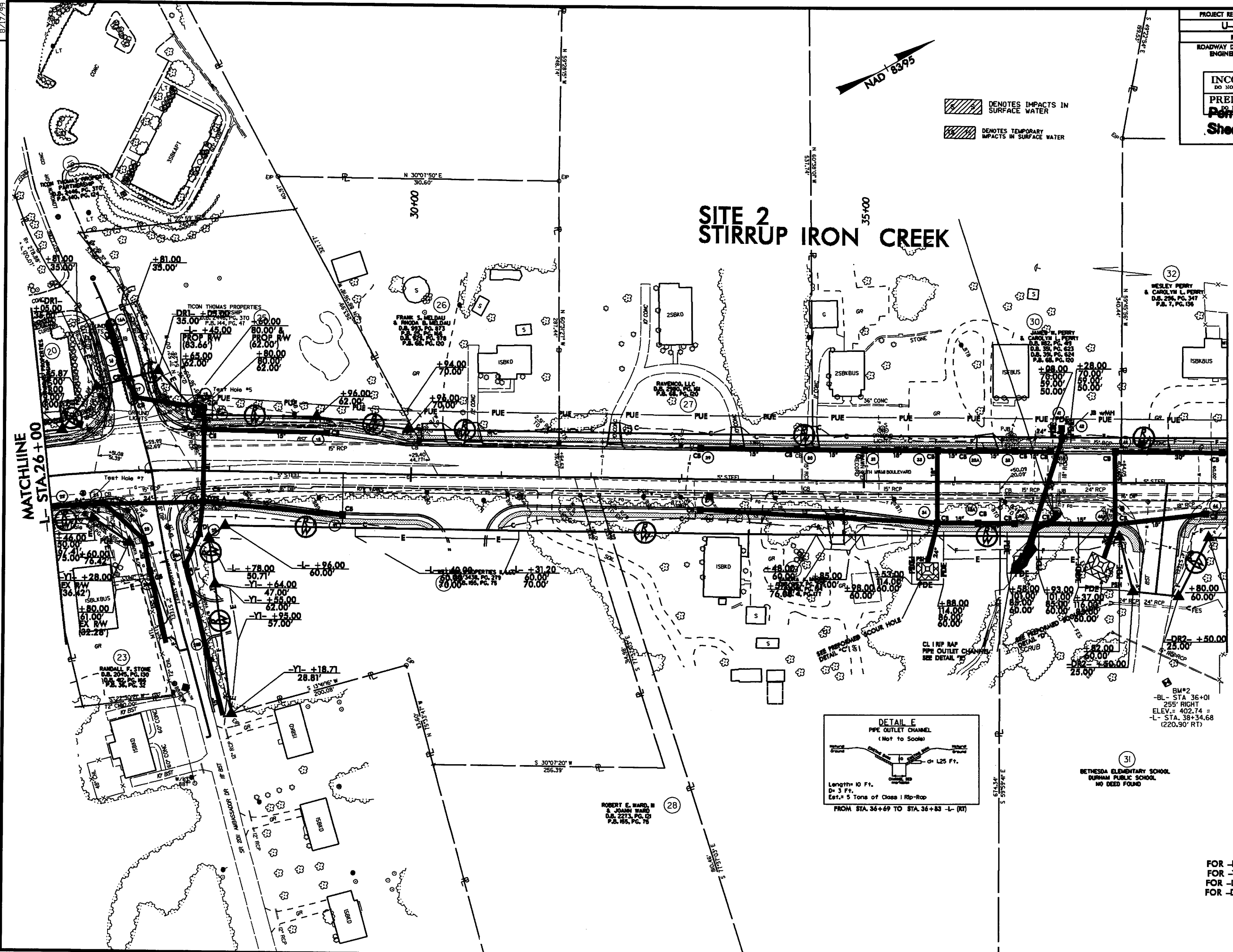
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PROJECT REFERENCE NO.	SHEET NO.
U-4011	5
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
INCOMPLETE PLANS DO NOT USE FOR A/W ACQUISITION	
PRELIMINARY PLANS DO NOT USE FOR CONSTRUCTION	
<b>Permit Drawing</b>	
Sheet 11 of 12	



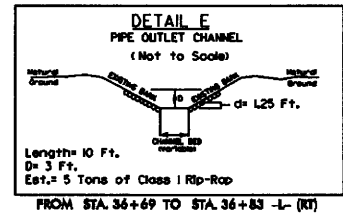
DENOTES IMPACTS IN SURFACE WATER  
 DENOTES TEMPORARY IMPACTS IN SURFACE WATER

# SITE 2 STIRRUP IRON CREEK



MATCHLINE  
-L- STA.26+00

MATCHLINE  
-L- STA.39+00



-BL- STA 36+01  
 25' RIGHT  
 ELEV.= 402.74 =  
 -L- STA. 38+34.68  
 (220.90' RT)

FOR -L- PROFILE SEE SHEET 8  
 FOR -Y1- PROFILE SEE SHEET 10  
 FOR -DR2- PROFILE SEE SHEET 10

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REVISIONS

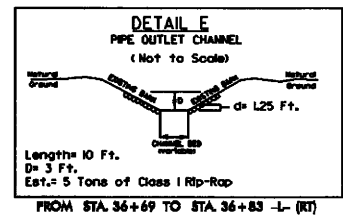
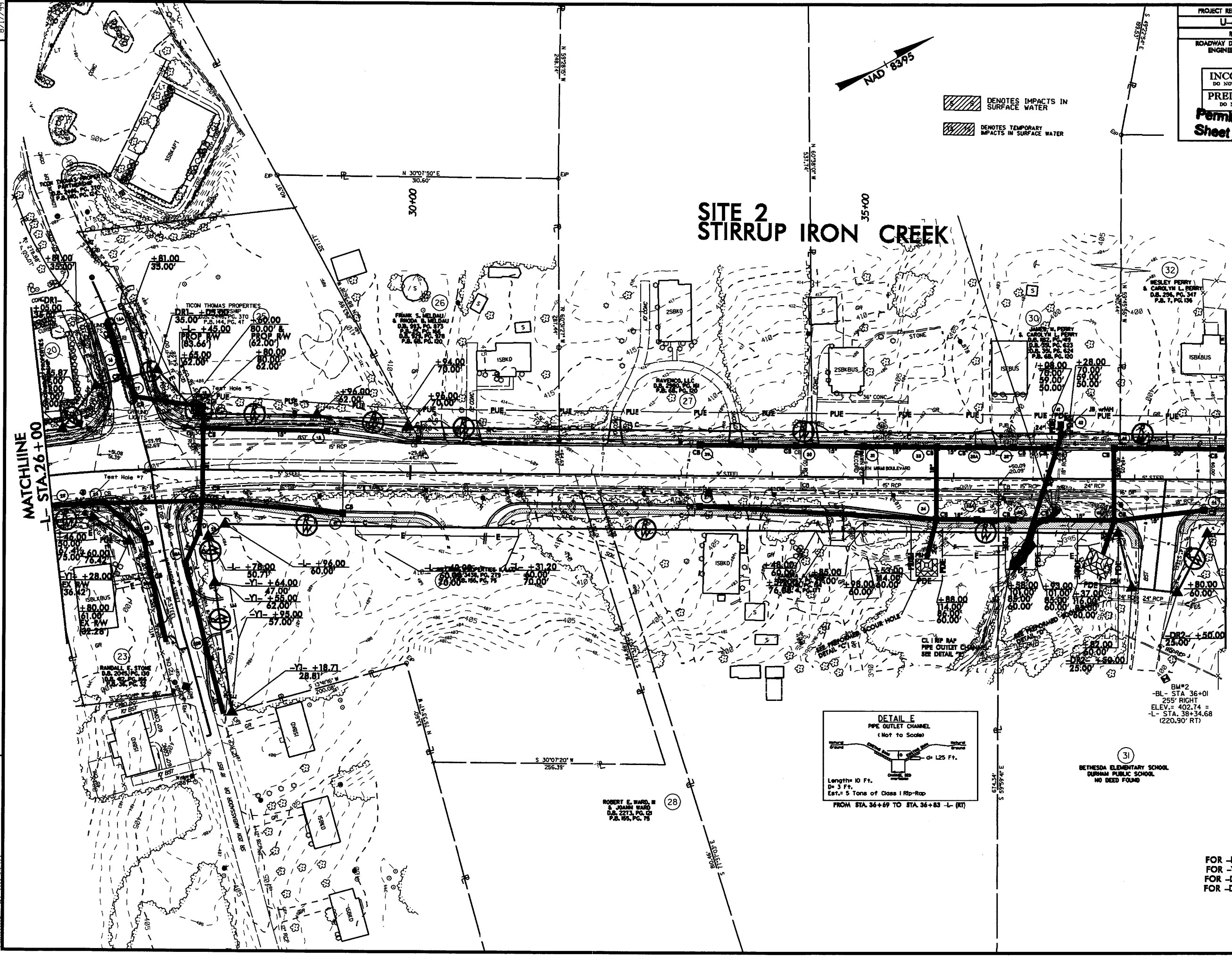
B/17/99

PROJECT REFERENCE NO.	SHEET NO.
U-4011	5
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
INCOMPLETE PLANS DO NOT USE FOR A/W ACQUISITION	
PRELIMINARY PLANS DO NOT USE FOR CONSTRUCTION	
<b>Permit Drawing</b> Sheet 12 of 12	



DENOTES IMPACTS IN SURFACE WATER  
 DENOTES TEMPORARY IMPACTS IN SURFACE WATER

# SITE 2 STIRRUP IRON CREEK



BM#2  
 -BL- STA 36+01  
 255' RIGHT  
 ELEV. = 402.74 =  
 -L- STA. 38+34.68  
 (220.90' RT)

(31)  
 BETHESDA ELEMENTARY SCHOOL  
 DURHAM PUBLIC SCHOOL  
 NO DEED FOUND

(28)  
 ROBERT E. WARD, II  
 & JOANN WARD  
 D.S. 2273, PG. 12  
 P.S. 165, PG. 75

FOR -L- PROFILE SEE SHEET 8  
 FOR -Y1- PROFILE SEE SHEET 10  
 FOR -DRI- PROFILE SEE SHEET 10  
 FOR -DR2- PROFILE SEE SHEET 10

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