

US Army Corps  
Of Engineers  
Wilmington District

# PUBLIC NOTICE

Issue Date: November 3, 2005  
Comment Deadline: December 5, 2005  
Corps Action ID #: 200420744

All interested parties are hereby advised that the Wilmington District, Corps of Engineers (Corps) has received an application for work within jurisdictional waters of the United States. Specific plans and location information are described below and shown on the attached plans. This Public Notice and all attached plans are also available on the Wilmington District Web Site at [www.saw.usace.army.mil/wetlands](http://www.saw.usace.army.mil/wetlands)

**Applicant:** Town of Holly Springs/Utley Creek WWTP  
Upgrade & Expansion  
Attn: Ms. Stephanie Sudano  
Post Office Box 8  
Holly Springs, NC 27405

**AGENT:** Green Engineering  
Attn: Mr. E. Leo Green  
Post Office Box 609  
Wilson, NC 27893

## Authority

The Corps will evaluate this application and decide whether to issue, conditionally issue, or deny the proposed work pursuant to applicable procedures Section 404 of the Clean Water Act.

## Location

The site is located on the south side of Ballentine Road, west of N.C. Highway 55 Bypass, in Holly Springs, Wake County, North Carolina. The project site is located adjacent to an unnamed tributary to Utley Creek, which drains into the Cape Fear River Basin (Latitude and Longitude in Decidegrees: 35.6465191 E; -78.850407 N).

## Existing Site Conditions

The site indicated for the proposed Utley Creek WWTP expansion/upgrade is owned by the Town of Holly Springs and is partially occupied by the current WWTP. An unnamed, intermittent tributary to Utley Creek flows through the site, with 806 linear feet

proposed for culverting/relocating to accommodate the expansion. Vegetation near this stream is identified as a mature, mesic hardwood forest.

The majority of the 7-mile force main installation would be located within current road rights-of-way. Portions of the 40-foot construction corridor would temporarily impact seven jurisdictional wetlands. Total temporary wetland impacts would be 0.127 acres. In addition, four of the seven wetlands would be permanently impacted (through mowed maintenance procedures) for a total of 0.026 acres of impact. The force main would also temporarily impact three intermittent streams and three perennial streams during crossing construction via open-cut methods. Each stream is identified as having a pine/hardwood mix adjacent to the areas proposed for impact.

### **Applicant's Stated Purpose**

The project is to upgrade and expand the existing wastewater treatment plant (WWTP) to a capacity that would meet the growth projections of the Town.

### **Project Description**

The project would involve the construction of two additional oxidation ditches, two clarifiers and the associated UV filters and aerators to expand the existing WWTP to a capacity that would meet the growth expectations of the Town. The project proposes to permanently impact a total of 0.026 acres of wetlands, and 806 linear feet of intermittent stream channel, which exhibits important aquatic function, which requires mitigation. Temporary impacts include 0.127 acres of wetlands, 3 intermittent stream channels (crossings), and 3 perennial stream channels (crossings).

### **Mitigation Discussion**

The applicant has proposed to utilize the North Carolina Ecosystem Enhancement Program (NCEEP) to mitigate for unavoidable impacts to aquatic resources associated with the relocation of 806 linear feet of warm stream impacts within the Cape Fear basin. Accordingly, the applicant has provided a letter, which indicates that they will accept responsibility to provide 806 linear feet of stream mitigation, reflecting a 1:1 ratio.

### **Other Required Authorizations**

This notice and all applicable application materials are being forwarded to the appropriate State agencies for review. The Corps will generally not make a final permit decision until the North Carolina Division of Water Quality (NCDWQ) issues, denies, or waives State certification required by Section 401 of the Clean Water Act (PL 92-500). The receipt of the application and this public notice in the NCDWQ Central Office in Raleigh serves as application to the NCDWQ for certification. A waiver will be deemed to occur if the NCDWQ fails to act on this request for certification within sixty days of the date of the receipt of this notice in the NCDWQ Central Office. Additional information regarding the Clean Water Act certification may be reviewed at the NCDWQ Central

Office, 401 Oversight and Express Permits Unit (for NCDOT projects, the Transportation Permitting Unit), 2321 Crabtree Boulevard, Raleigh, North Carolina 27604-2260. All persons desiring to make comments regarding the application for certification under Section 401 of the Clean Water Act should do so in writing delivered to the North Carolina Division of Water Quality (NCDWQ), 1650 Mail Service Center, Raleigh, North Carolina 27699-1650 Attention: Mr. John Hennessy (NC Department of Transportation projects) or Ms Cyndi Karoly (all other projects) by November 4, 2005.

### **Essential Fish Habitat**

This notice initiates the Essential Fish Habitat (EFH) consultation requirements of the Magnuson-Stevens Fishery Conservation and Management Act. The Corps' initial determination is that the proposed project will not adversely impact EFH or associated fisheries managed by the South Atlantic or Mid Atlantic Fishery Management Councils or the National Marine Fisheries Service.

### **Cultural Resources**

The Corps has consulted the latest published version of the National Register of Historic Places and is not aware that any registered properties, or properties listed as being eligible for inclusion therein are located within the project area or will be affected by the proposed work. Presently, unknown archeological, scientific, prehistoric, or historical data may be located within the project area and/or could be affected by the proposed work.

### **Endangered Species**

The Corps has reviewed the project area, examined all information provided by the applicant and consulted the latest North Carolina Natural Heritage Database. Based on available information, the Corps is not aware of the presence of species listed as threatened or endangered or their critical habitat formally designated pursuant to the Endangered Species Act of 1973 (ESA) within the project area. A final determination on the effects of the proposed project will be made upon additional review of the project and completion of any necessary biological assessment and/or consultation with the U.S. Fish and Wildlife Service and/or National Marine Fisheries Service."

### **Evaluation**

The decision whether to issue a permit will be based on an evaluation of the probable impacts, including cumulative impacts, of the proposed activity on the public interest. That decision will reflect the national concern for both protection and utilization of important resources. The benefit, which reasonably may be expected to accrue from the proposal, must be balanced against its reasonably foreseeable detriments. All factors which may be relevant to the proposal will be considered including the cumulative effects thereof; among those are conservation, economics, aesthetics, general environmental

concerns, wetlands, historic properties, fish and wildlife values, flood hazards, flood plain values (in accordance with Executive Order 11988), land use, navigation, shoreline 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 discharge of dredged or fill materials in waters of the United States, the evaluation of the impact of the activity on the public interest will include application of the Environmental Protection Agency's 404(b)(1) guidelines.

### **Commenting Information**

The Corps 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 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.

Any person may request, in writing, within the comment period specified in this notice, that a public hearing be held to consider the application. Requests for public hearings shall state, with particularity, the reasons for holding a public hearing. Requests for a public hearing shall be granted, unless the District Engineer determines that the issues raised are insubstantial or there is otherwise no valid interest to be served by a hearing.

Written comments pertinent to the proposed work, as outlined above, will be received by the Corps of Engineers, Wilmington District, until 5pm, December 5, 2005. Comments should be submitted to Mr. Monte Matthews at 6508 Falls of Neuse Road, Suite 120, Raleigh, NC 27615.



WAKE COUNTY

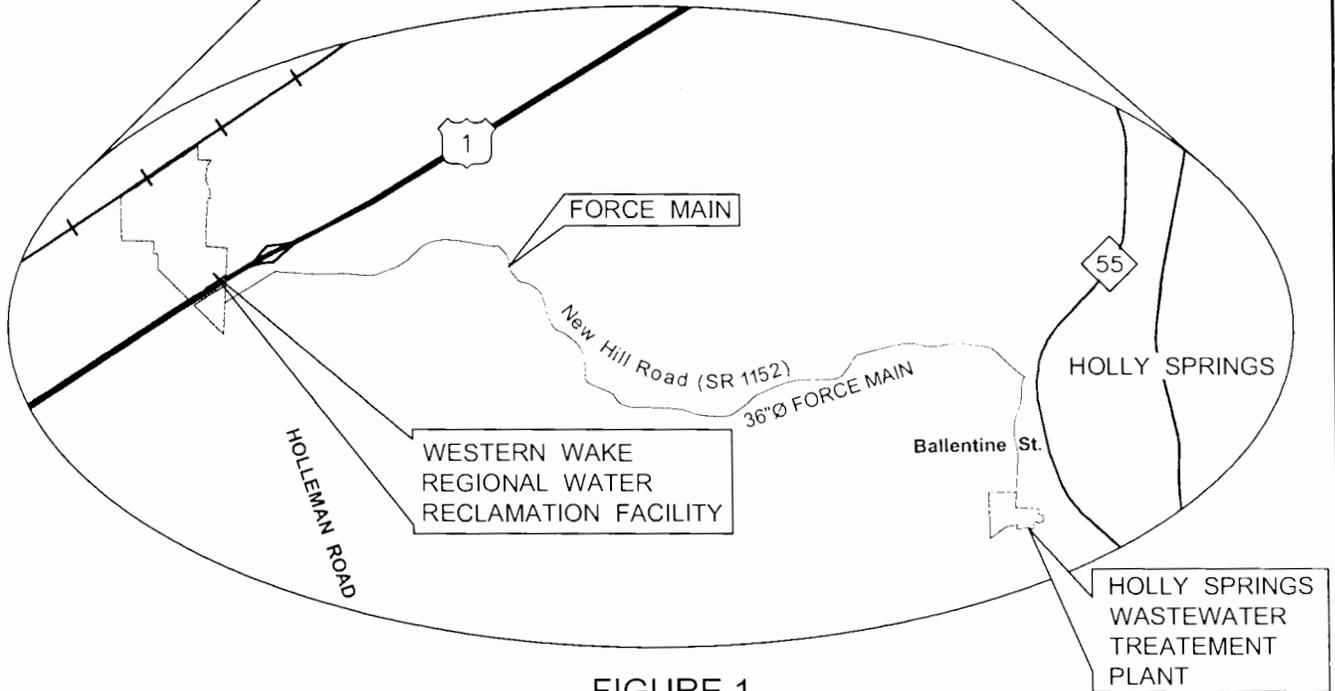
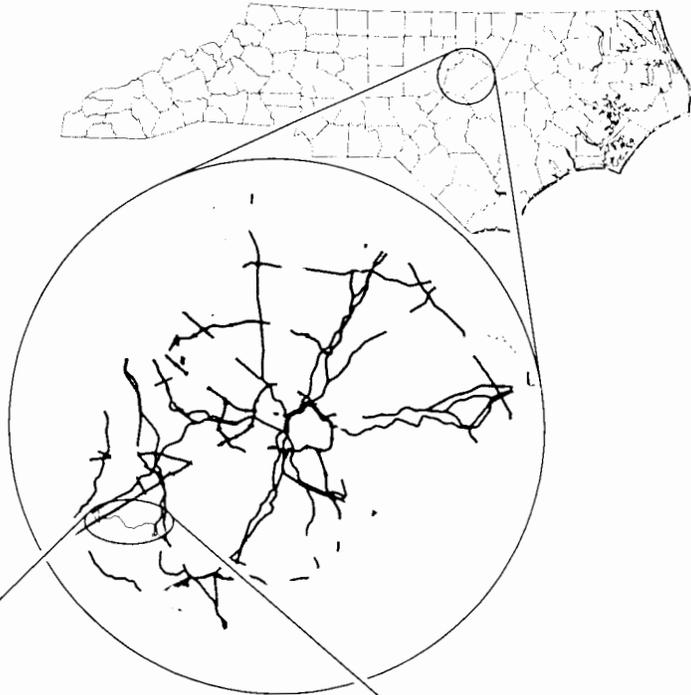


FIGURE 1  
 HOLLY SPRINGS PART OF THE WESTERN WAKE REGIONAL  
 WASTEWATER MANAGEMENT FACILITIES PROJECT

**GREEN ENGINEERING**  
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 303 N. GOLDSBORO ST. P.O. BOX 609 WILSON, N.C. 27893  
 TEL (252) 237-5365 FAX (252) 243-7489 office@greeneng.com

OVERALL PROJECT LOCATION MAP  
 TOWN OF HOLLY SPRINGS

SEPTEMBER 2005

1" = 1,000'

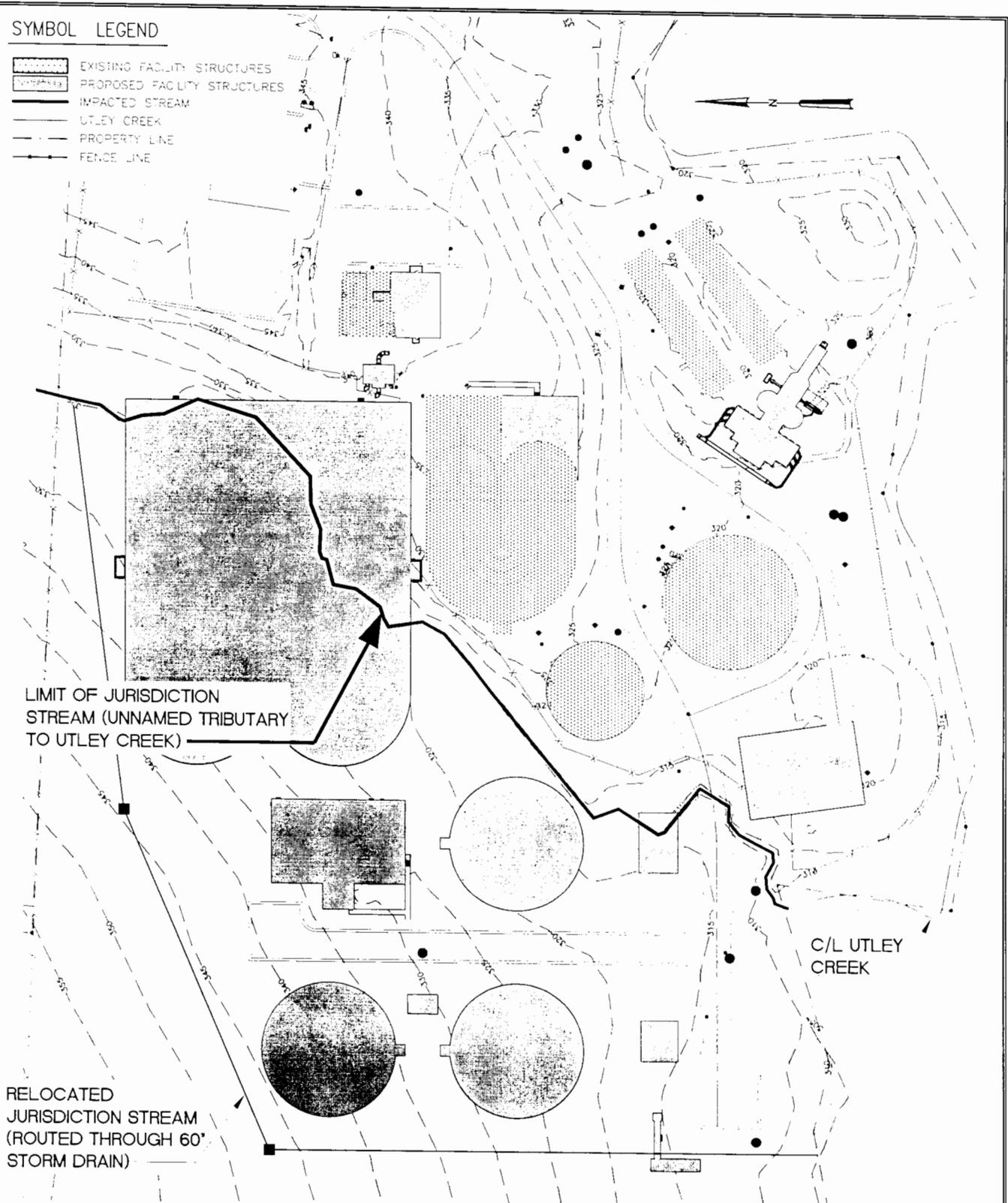
WAKE COUNTY

NORTH CAROLINA

Plot scale: 1" = 1

**SYMBOL LEGEND**

-  EXISTING FACILITY STRUCTURES
-  PROPOSED FACILITY STRUCTURES
-  IMPACTED STREAM
-  UTLEY CREEK
-  PROPERTY LINE
-  FENCE LINE



LIMIT OF JURISDICTION  
STREAM (UNNAMED TRIBUTARY  
TO UTLEY CREEK)

RELOCATED  
JURISDICTION STREAM  
(ROUTED THROUGH 60'  
STORM DRAIN)

C/L UTLEY  
CREEK

FIGURE 2

1"=100'-0" 

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**DAVIS-MARTIN-POWELL & ASSOCIATES**  
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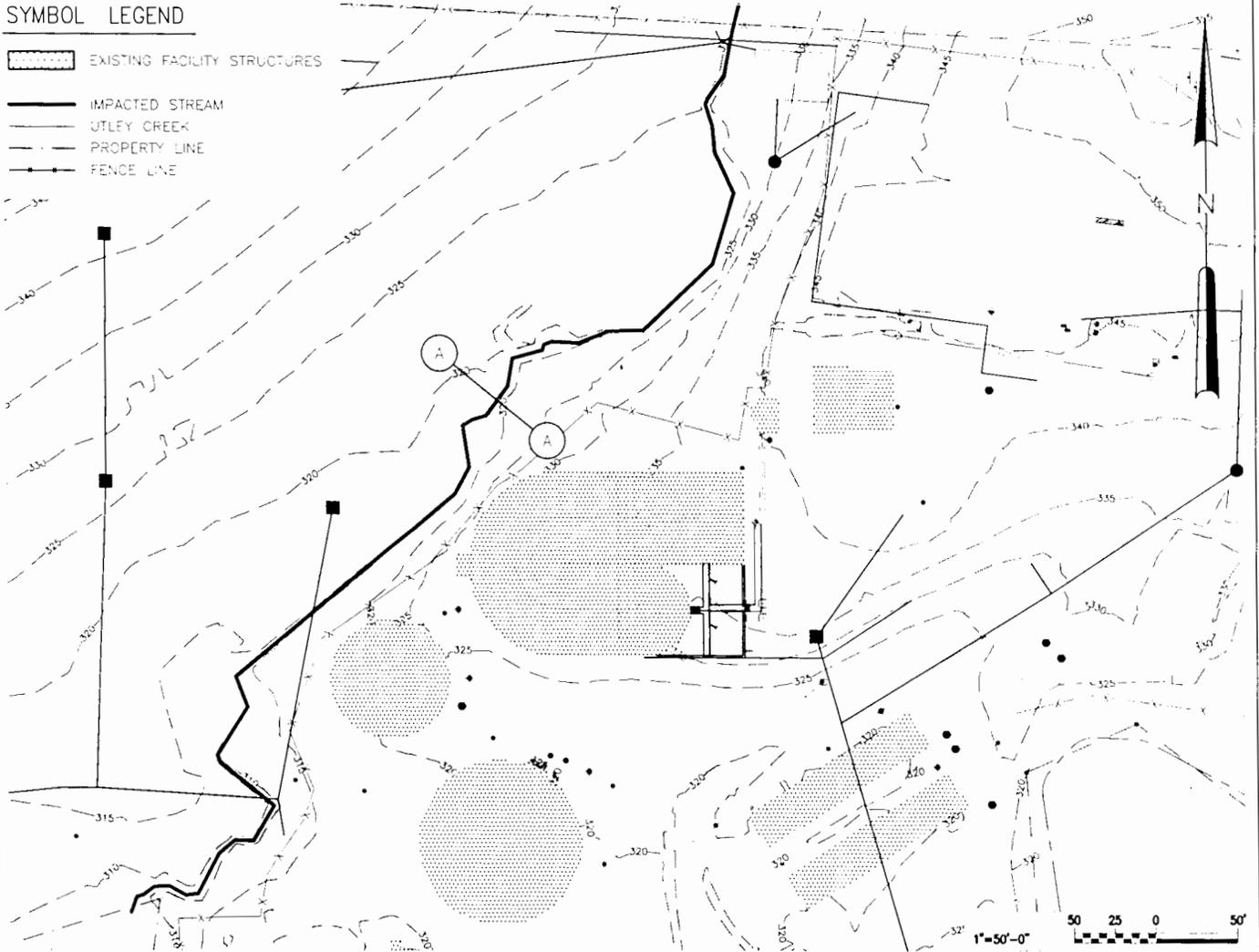
TOWN OF HOLLY SPRINGS  
NORTH CAROLINA

UTLEY CREEK WASTEWATER TREATMENT  
PLANT UPGRADE AND EXPANSION

**OVERALL  
SITE PLAN**

**SYMBOL LEGEND**

-  EXISTING FACILITY STRUCTURES
-  IMPACTED STREAM
-  UTLEY CREEK
-  PROPERTY LINE
-  FENCE LINE



UNNAMED TRIBUTARY TO UTLEY CREEK TO BE FILLED.  
 STREAM TO BE RELOCATED ON SITE AND ROUTED  
 THROUGH A PROPOSED 60" STORM DRAIN. CROSS  
 SECTION SHOWN IS APPROXIMATELY REPRESENTATIVE OF  
 THE SEGMENT OF STREAM TO BE FILLED.

320  
315

320  
315

0+15      0+10      0+05      0+00      0+05      0+10      0+15

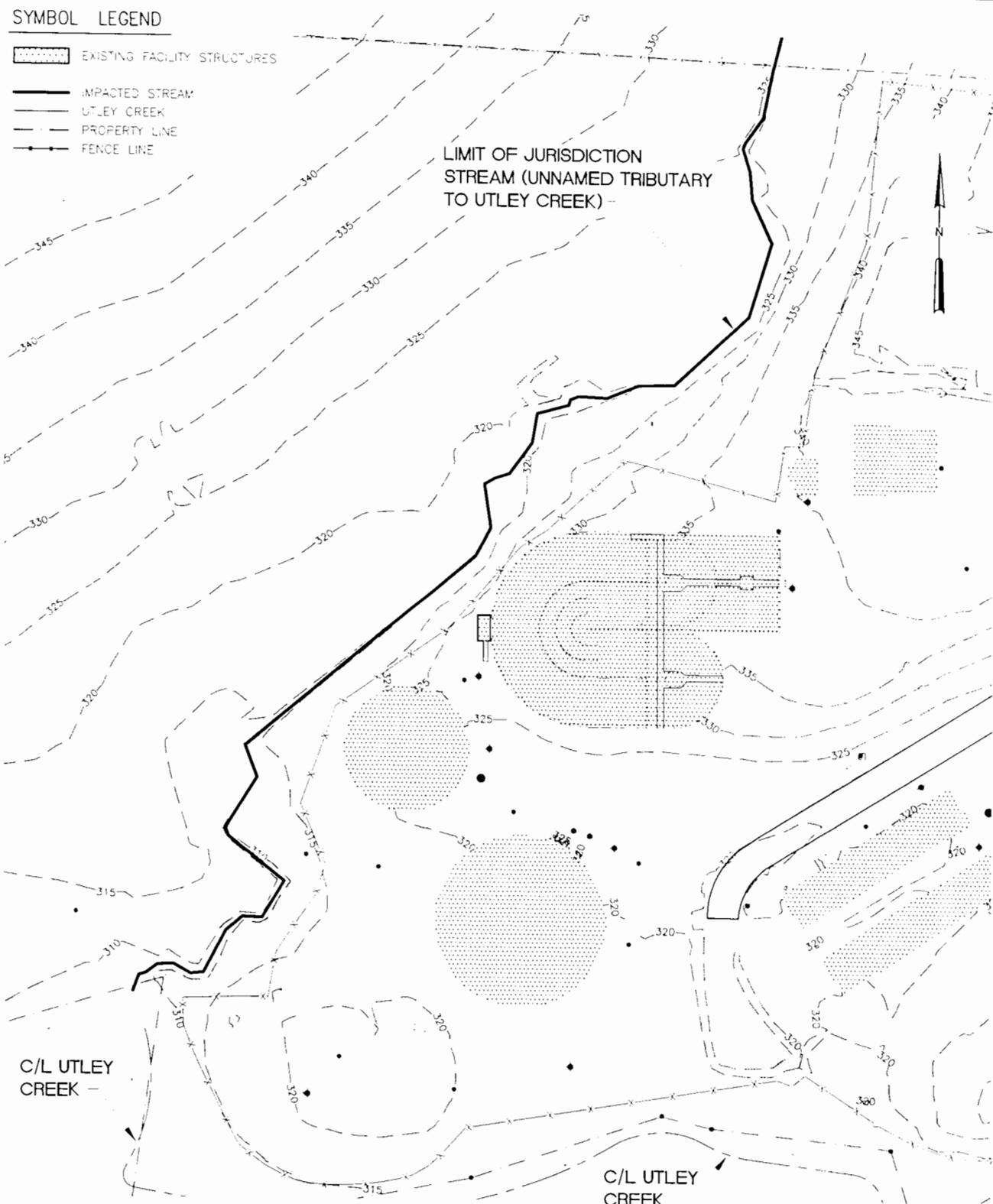
**PROFILE SECTION A-A (LOOKING DOWNSTREAM)**  
**FIGURE 3**

|  |  |   |   |
|--|--|---|---|
| <p><b>DAVIS-MARTIN-POWELL &amp; ASSOCIATES</b></p>  <p>405 N. HAY RIDGE<br/>         WILSON, N.C. 27157<br/>         TEL: 252-255-1200<br/>         FAX: 252-255-1201<br/>         WWW.DMP.COM</p> <p>ENGINEERING<br/>         LAND PLANNING<br/>         SURVEYING</p> | <p><b>GREEN ENGINEERING</b><br/>         WATER, WASTEWATER, SURVEYING,<br/>         PLANNING, PROJECT MANAGEMENT</p>  <p>303 N. GOLDBORO ST.<br/>         P.O. BOX 800 WILSON, N.C. 27157<br/>         TEL: (252) 237-5305 FAX: (252) 243-7486<br/>         OFFICE@GREENENG.COM</p> | <p>TOWN OF HOLLY SPRINGS<br/>         NORTH CAROLINA</p> <p>UTLEY CREEK WASTEWATER TREATMENT<br/>         PLANT UPGRADE AND EXPANSION</p> | <p><b>TYPICAL STREAM<br/>         CROSS SECTION</b></p> |
|--|--|---|---|

**SYMBOL LEGEND**

-  EXISTING FACILITY STRUCTURES
-  IMPACTED STREAM
-  UTLEY CREEK
-  PROPERTY LINE
-  FENCE LINE

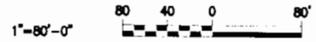
LIMIT OF JURISDICTION  
STREAM (UNNAMED TRIBUTARY  
TO UTLEY CREEK)



C/L UTLEY  
CREEK

C/L UTLEY  
CREEK

**FIGURE 4**



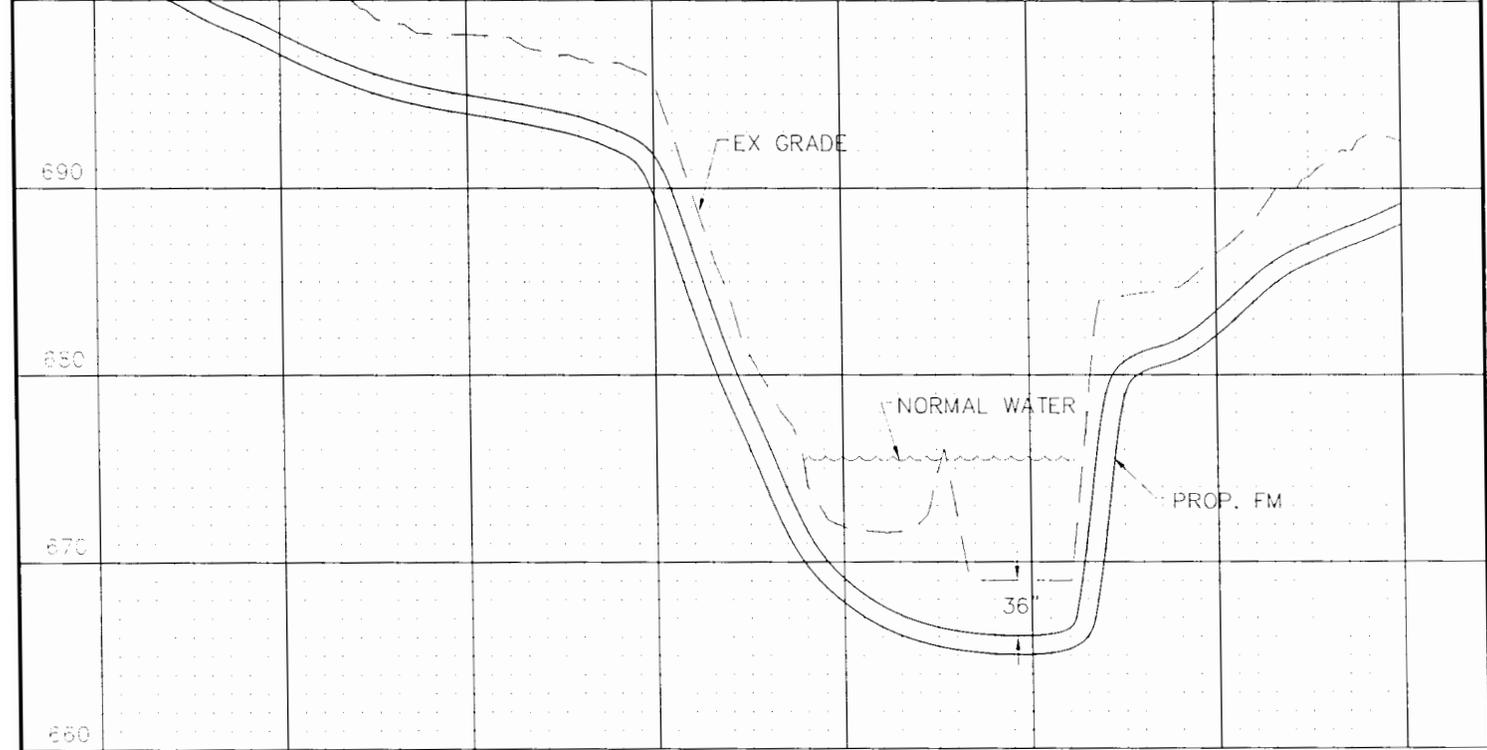
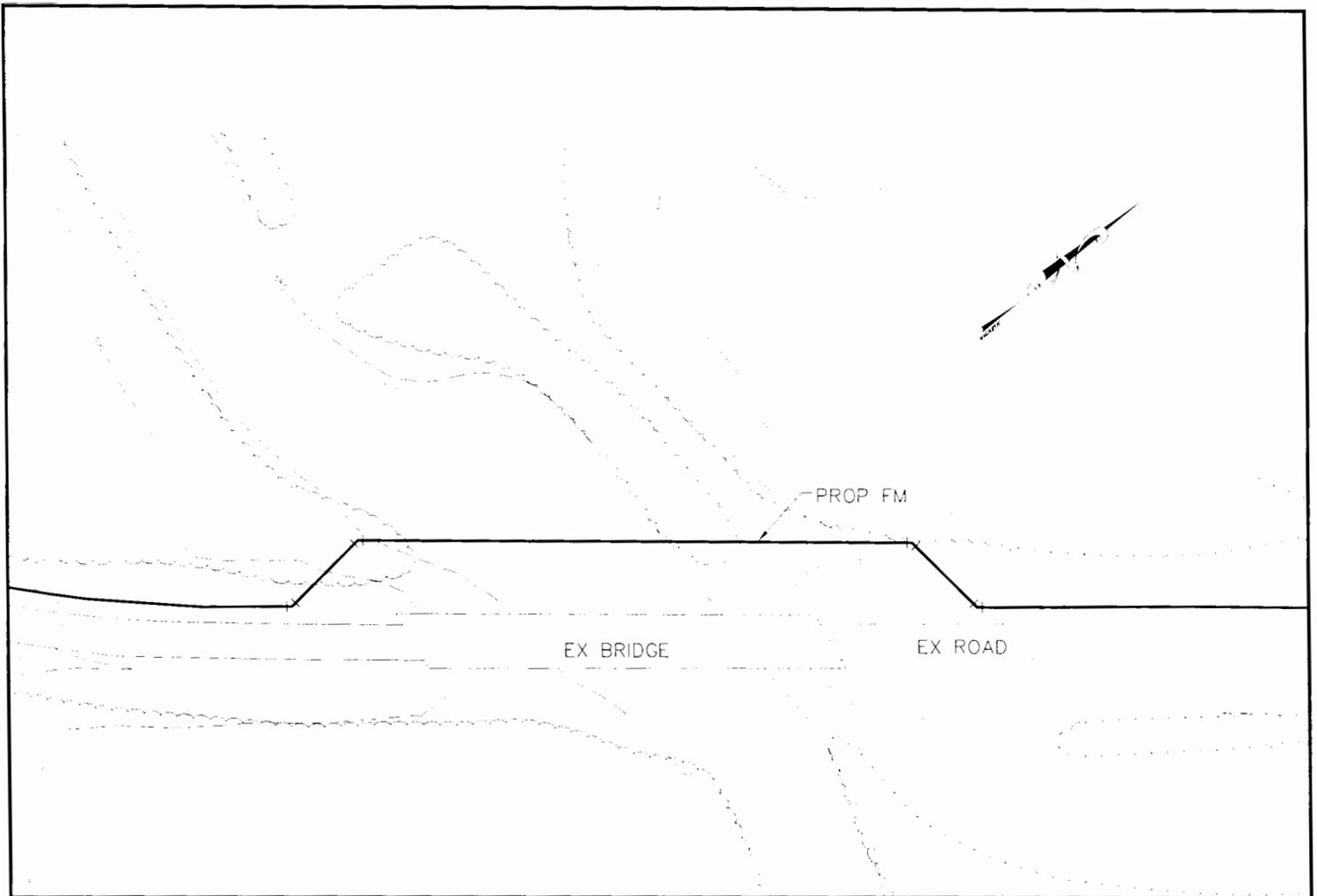
Plot scale=2D:loading location=I:\dmp\140332\4\04032-4\00\dwg\FIGURE 4 - ACUTE PERMIT.DWG Layout FIGURE 4 10/27/2006 @ 4:45pm

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TOWN OF HOLLY SPRINGS  
 NORTH CAROLINA  
 UTLEY CREEK WASTEWATER TREATMENT  
 PLANT UPGRADE AND EXPANSION

**EXISTING  
 CONDITIONS**



DAVIS-MARTIN-POWELL  
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ENGINEERS - LAND PLANNING - SURVEYING



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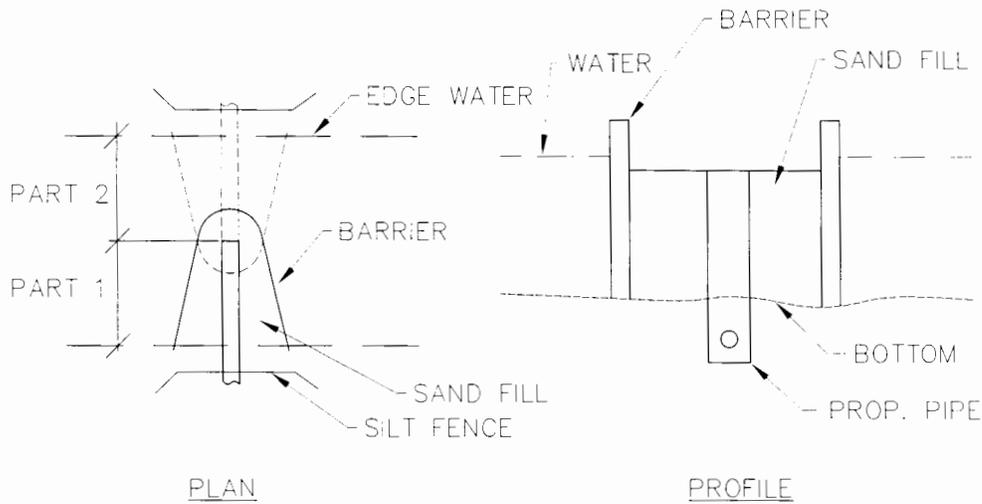
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TOWN OF HOLLY SPRINGS  
NORTH CAROLINA

UTLEY CREEK WATER RECLAMATION  
FACILITY UPGRADE AND EXPANSION

FIGURE 5  
TYPICAL STREAM CROSSING  
PLAN & PROFILE

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### CONSTRUCTION SEQUENCE

- 1 CONSTRUCTION SHALL BE PERFORMED DURING LOW FLOW PERIODS.
- 2 CROSSINGS SHALL BE ACCOMPLISHED IN A MANNER THAT WILL NOT PROHIBIT THE STREAM FLOW.
- 3 THE BANK OPPOSITE OF THE COFFER DAM SHALL BE PROTECTED BY SAND BAGS. THE MINIMUM LENGTH OF PROTECTION REQUIRED IS 25 FT ON EACH SIDE OF THE COFFER DAM, AT A HEIGHT OF 24" ABOVE WATER LEVEL. THE EXTENT OF PROTECTION MAY VARY AS DIRECTED BY THE ENGINEER ON AN INDIVIDUAL BASIS.
- 4 INSTALL NON-ERRODIBLE BARRIER AROUND 1/2 OF CROSSING.
- 5 INSTALL FILTER FABRIC AROUND INSIDE BARRIER.
- 6 PLACE SAND FILL INSIDE BARRIER.
- 7 EXCAVATE PIPE TRENCH.
- 8 INSTALL PIPE.
- 9 BACKFILL WITH CONCRETE AND/OR EXCAVATED MATERIAL TO ORIGINAL PROFILE.
- 10 REMOVE SAND FILL.
- 11 REMOVE FILTER FABRIC AND BARRIER.
- 12 IMMEDIATELY REVEGETATE STREAM BANK BY SEEDING AND MULCHING.
- 13 INSTALL TEMPORARY SILT FENCE.
- 14 RELOCATE TO OPPOSITE SIDE OF STREAM AND REPEAT ABOVE STEPS.
- 15 AFTER WATER MAIN HAS BEEN INSTALLED AND COFFER DAMS REMOVED, CONTRACTOR SHALL INSTALL CLASS I RIP RAP WITH FILTER FABRIC AND STONE UNDERLAYMENT TO STABILIZE STREAM BED.

### COFFER DAM STREAM CROSSING NO SCALE

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TOWN OF HOLLY SPRINGS  
NORTH CAROLINA

UTLEY CREEK WATER RECLAMATION  
FACILITY UPGRADE AND EXPANSION

FIGURE 6  
TYPICAL STREAM CROSSING  
CONSTRUCTION DETAIL

Page 6 of 20

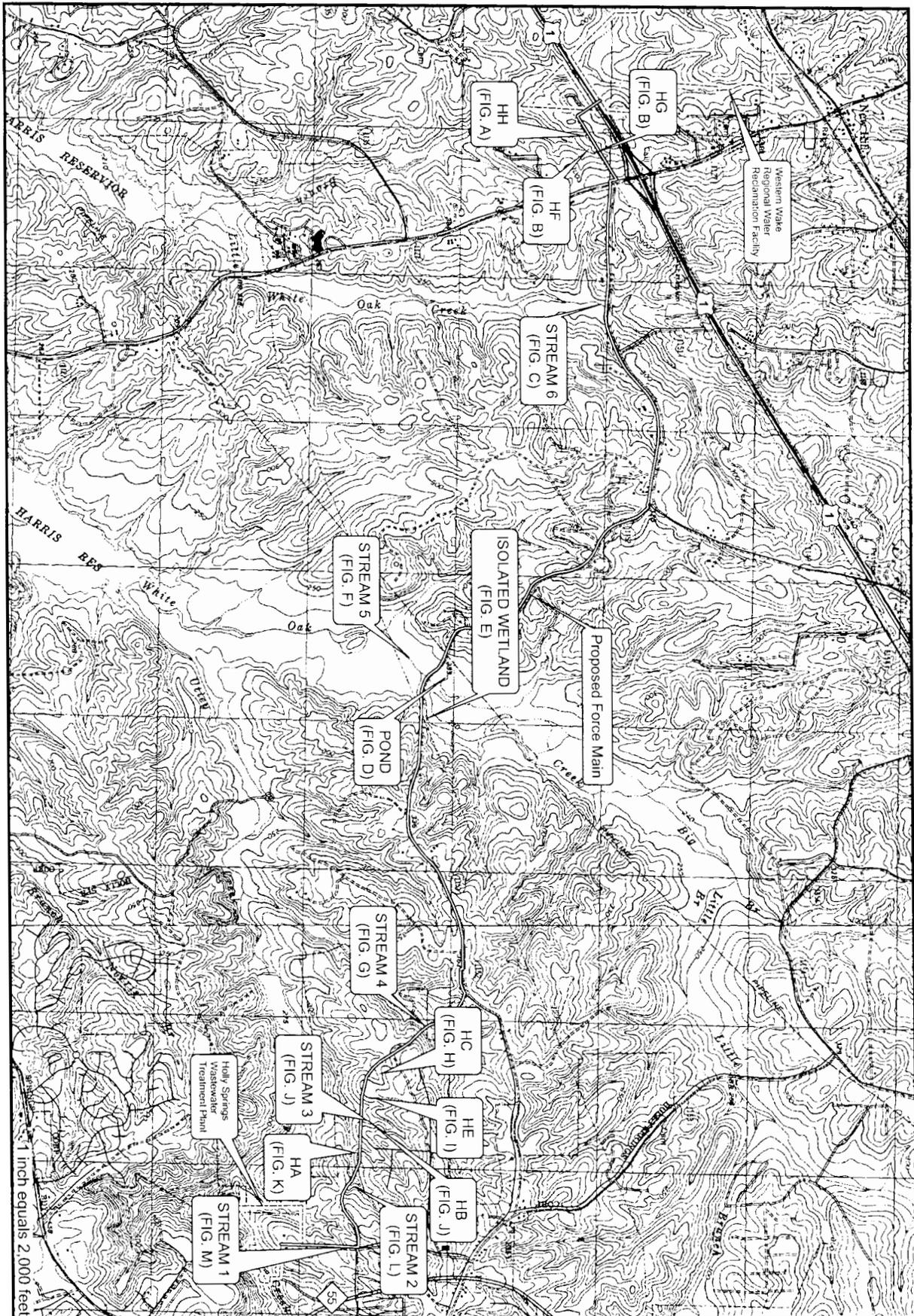


FIG.

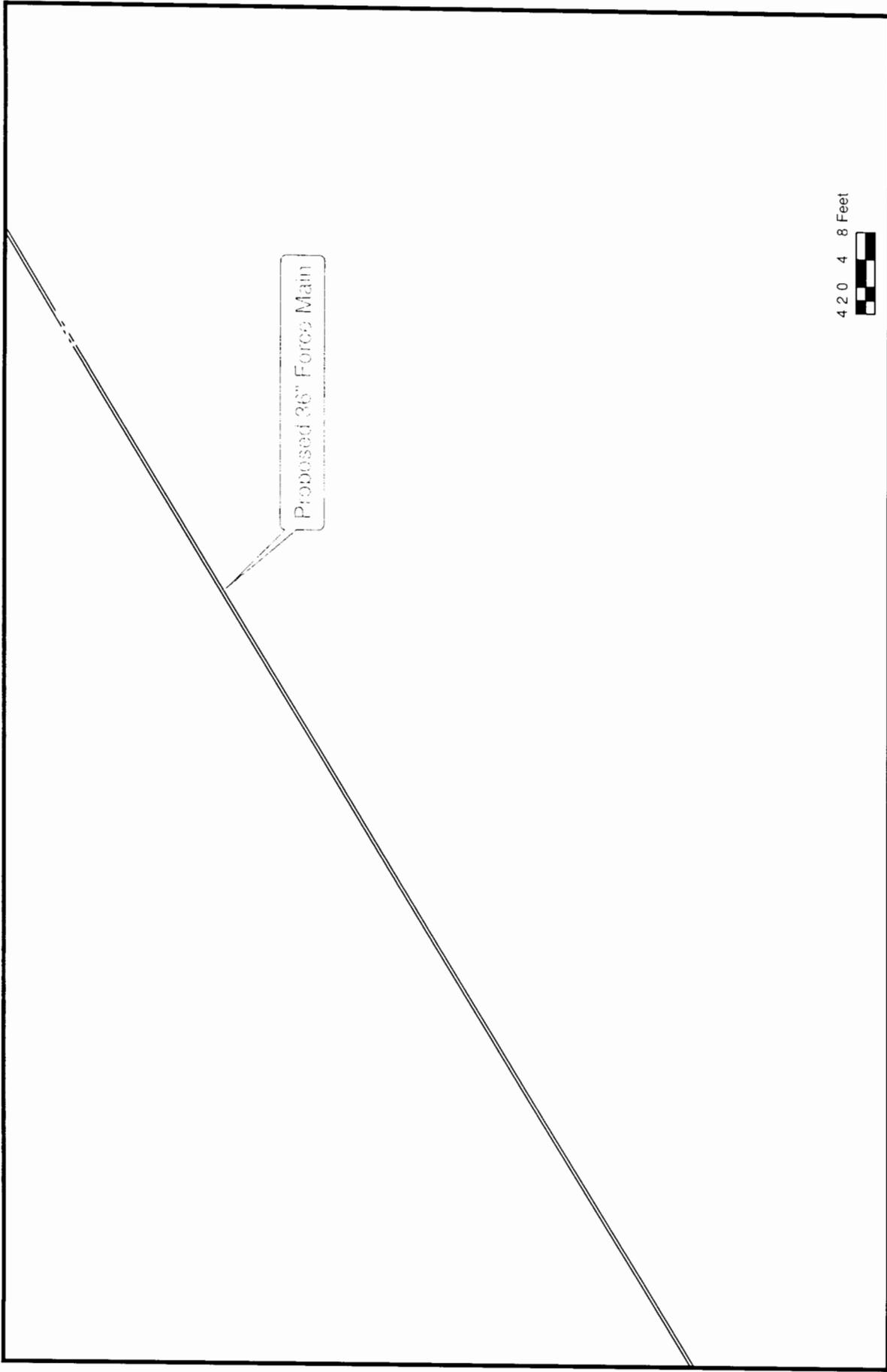
# Town of Holly Springs

7

36" Force Main - Wetlands/Stream Impacts

Prepared by:  
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 July 2005





4 2 0 4 8 Feet



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 July 2005

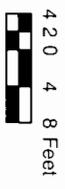
**FIG. A**  
**Town of Holly Springs**  
**36" Force Main - Wetlands/Streams Impacts**

FIG. B

# Town of Holly Springs

## 36" Force Main - Wetlands/Streams Impacts

Prepared by:  
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July 2005



36" Force Main

Friendship Road



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July 2005



FIG. **Town of Holly Springs**

c **36" Force Main - Wetlands/Streams Impacts**

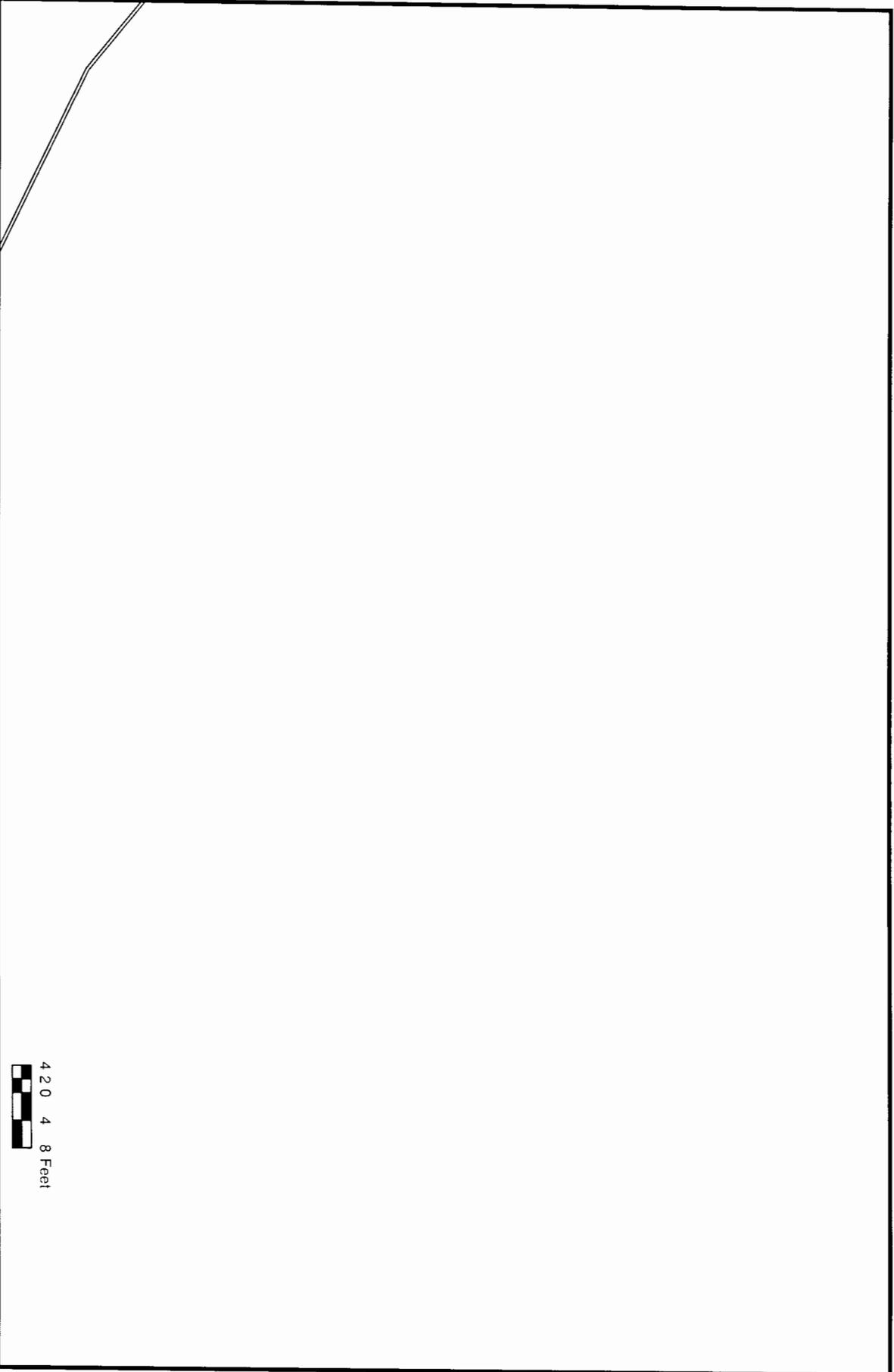
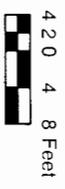


FIG.

D

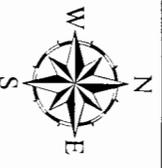
# Town of Holly Springs

## 36" Force Main- Wetlands/Streams Impacts



4 2 0 4 8 Feet

Prepared by:  
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303 N. Goldsboro Street  
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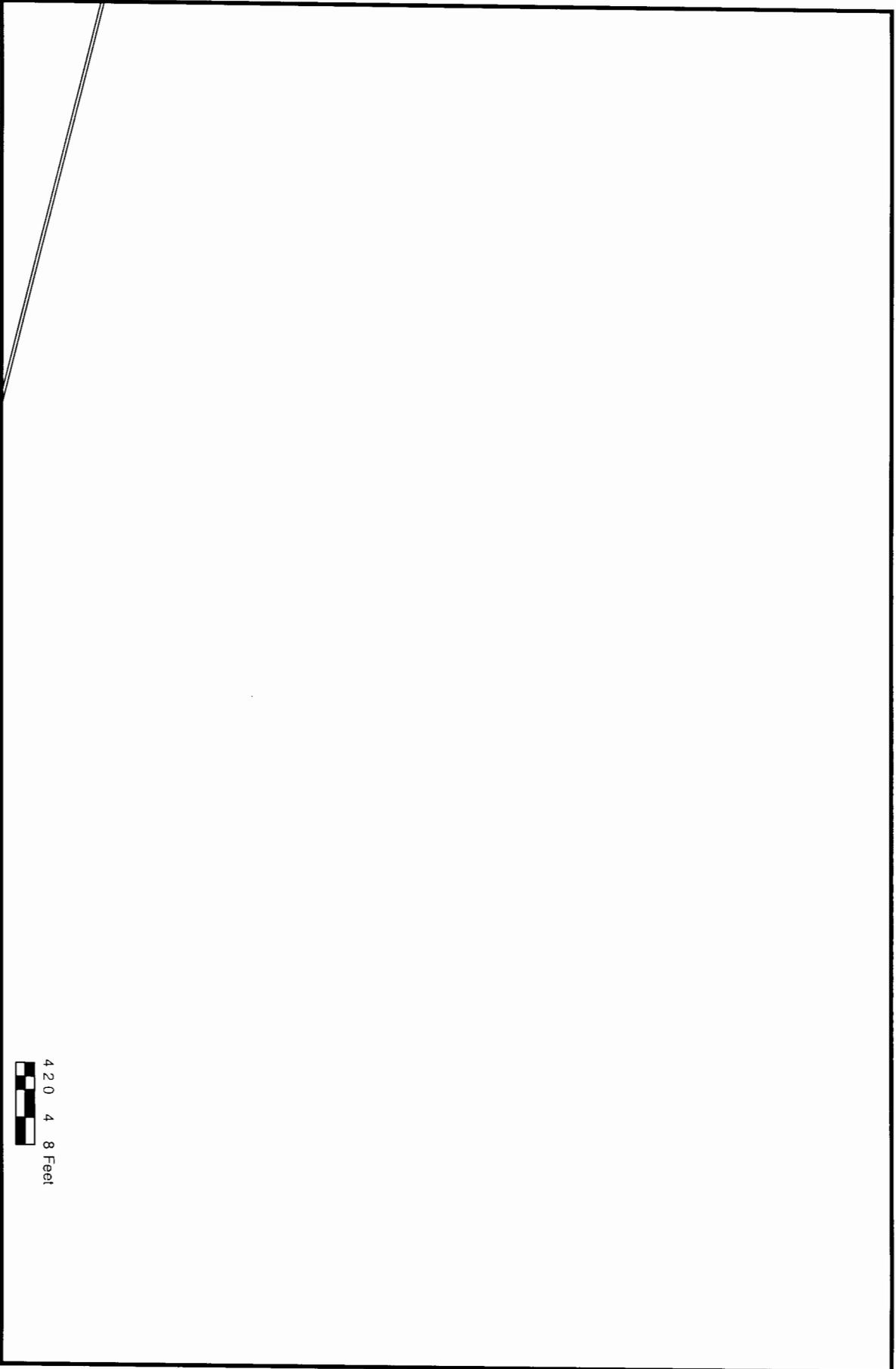


FIG.

E

# Town of Holly Springs

## 36" Force Main - Wetlands/Streams Impacts

4 2 0 4 8 Feet

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July 2005



FIG. F

# Town of Holly Springs

## 36" Force Main - Wetlands/Streams Impacts

HOLLY SPRINGS NEW HILL ROAD

9. 10 9 18 Feet



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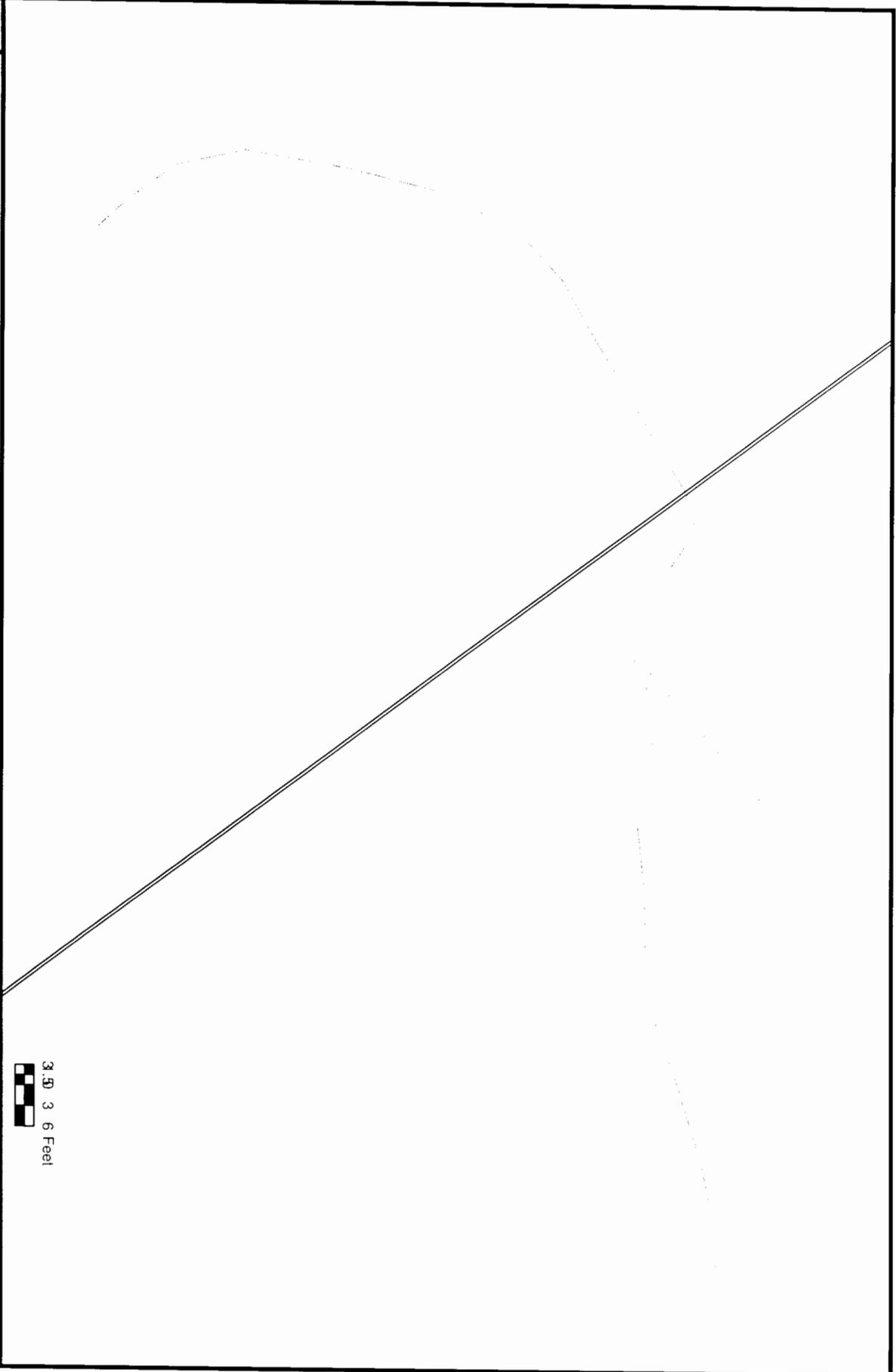


FIG.

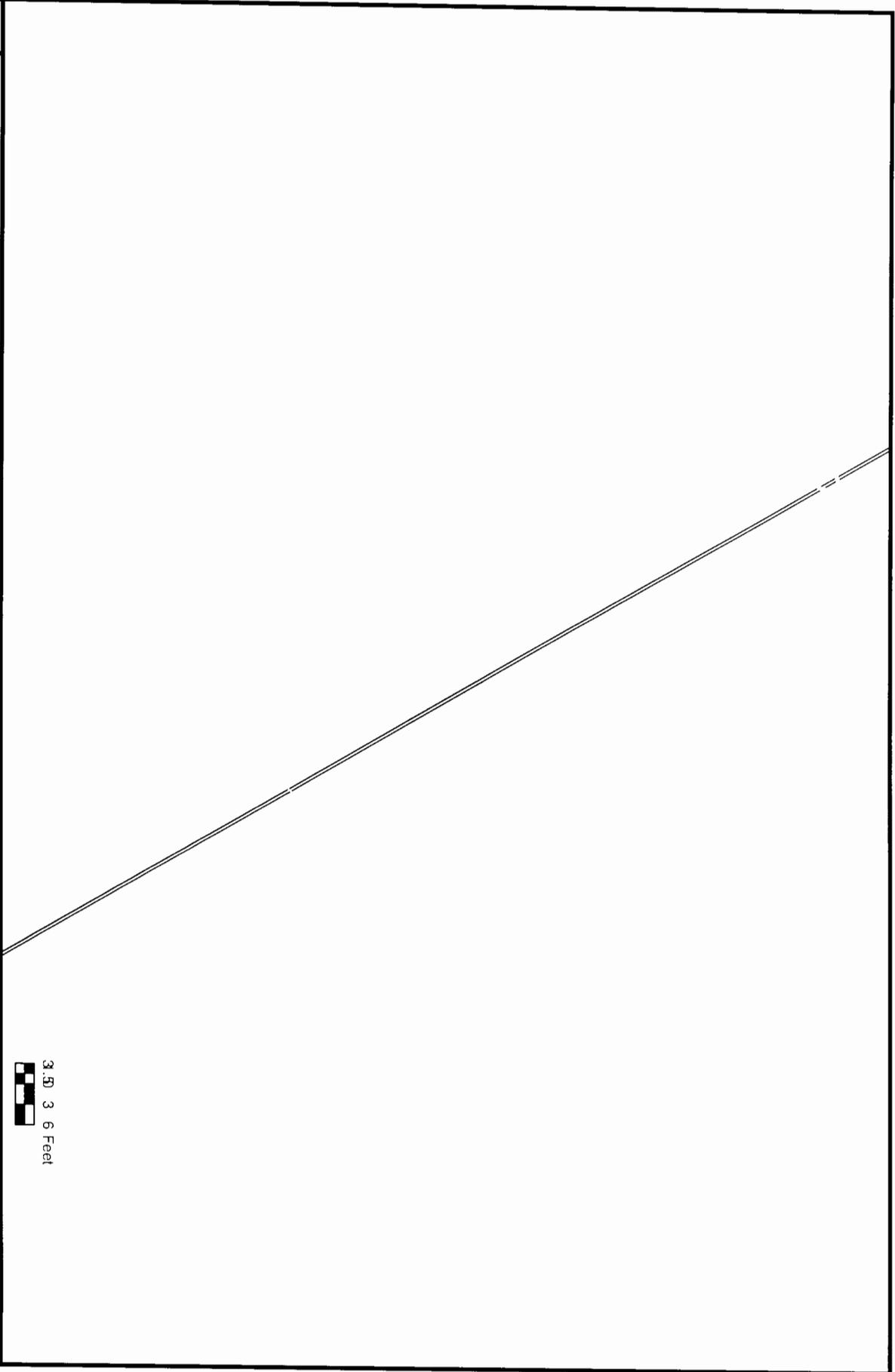
# Town of Holly Springs

## 36" Force Main - Wetlands/Streams Impacts

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3.00 3 6 Feet





3.0 3 6 Feet

FIG. H

# Town of Holly Springs

## 36" Force Main - Wetlands/Streams Impacts

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July 2005



FIG.

1

# Town of Holly Springs

## 36" Force Main - Wetlands/Streams Impacts

3.0 3 6 Feet  


Prepared by:  
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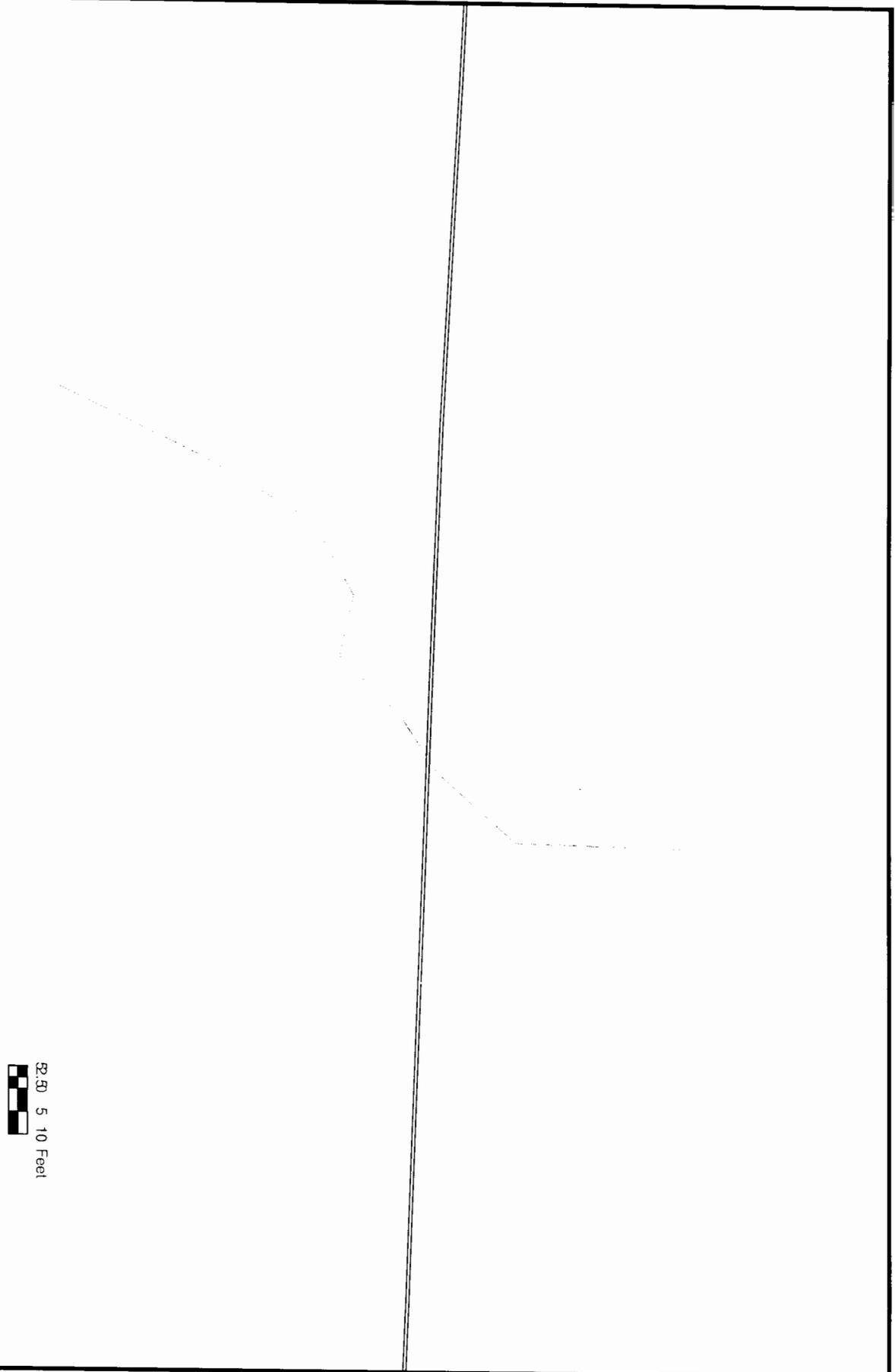


J

FIG.

# Town of Holly Springs

## 36" Force Main- Wetlands/Streams Impacts




 2.5 5 10 Feet

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 July 2005



FIG.

K

# Town of Holly Springs

## 36" Force Main - Wetlands/Streams Impacts

73.50 7 14 Feet



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July 2005



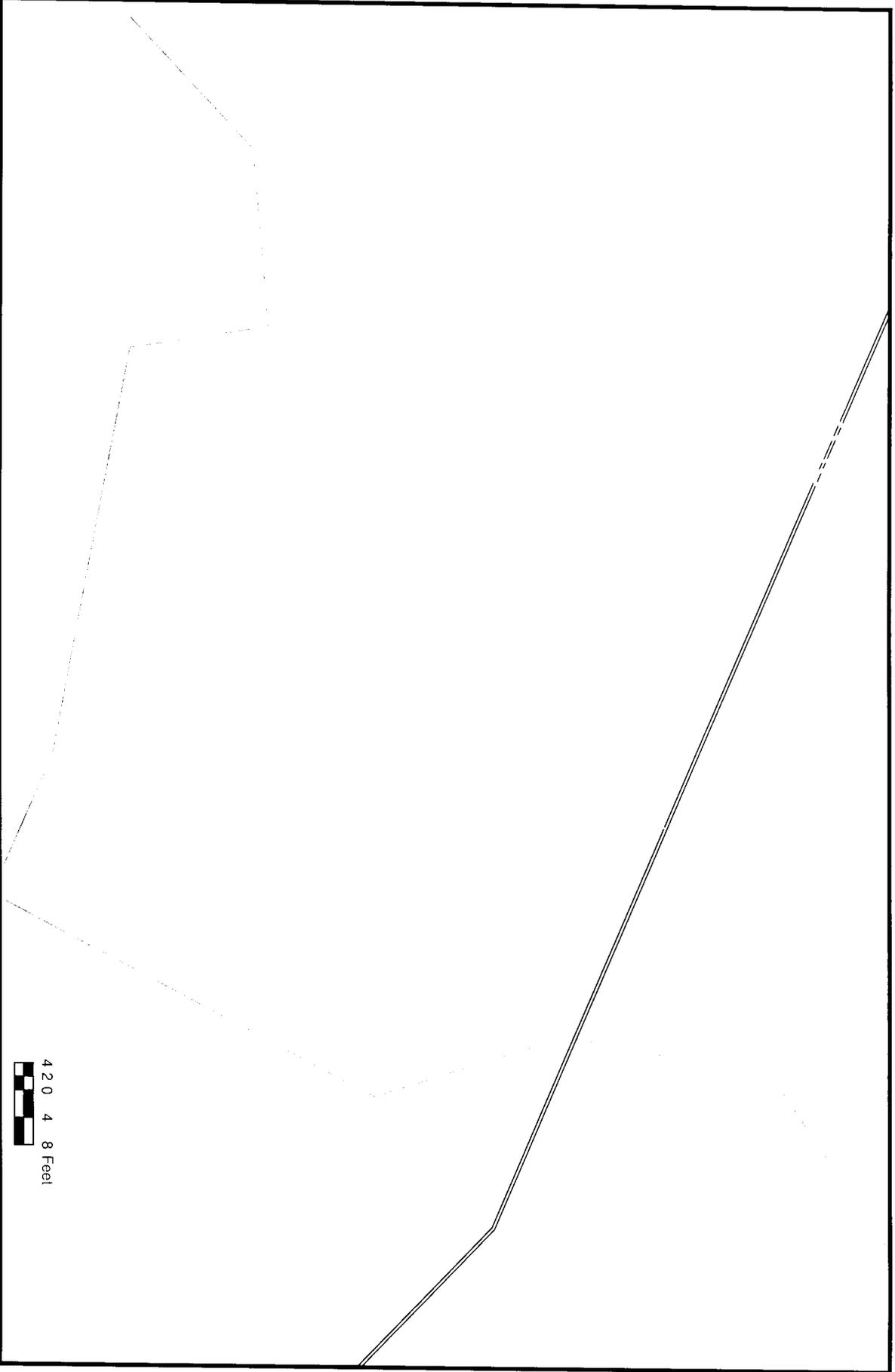


FIG.

L

# Town of Holly Springs

## 36" Force Main - Wetlands/Streams Impacts

Prepared by:

Green Engineering, P.L.L.C.

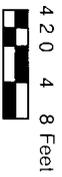
303 N. Goldsboro Street

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July 2005



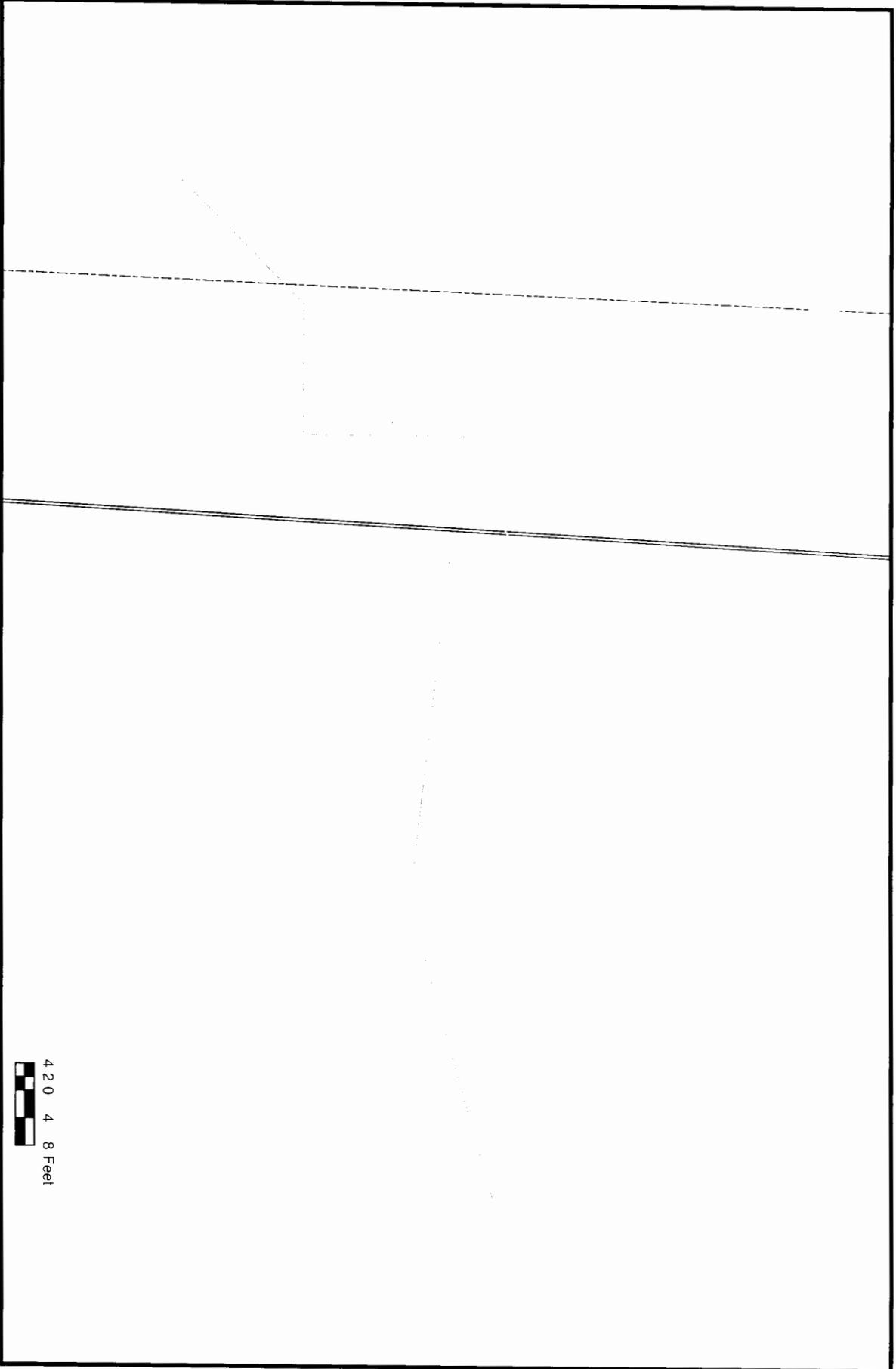


FIG.

M

# Town of Holly Springs

## 36" Force Main - Wetlands/Streams Impacts

4 2 0 4 8 Feet

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