



US Army Corps
Of Engineers
Wilmington District

PUBLIC NOTICE

Issue Date: June 14, 2005
Comment Deadline: July 13, 2005
Corps Action ID #: 200121252

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

Applicant: **Newland Communities**
 Attn: Mr. Mitch Barron
 31 Hillsboro Street
 Pittsboro, NC 27312

Agent: **Soil & Environmental Consultants, Inc.**
 Attn: Mr. Bob Zarzecki
 11010 Raven Ridge Road
 Raleigh, North Carolina 27614

Authority

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

Location

The project, Briar Chapel Residential Subdivision, is approximately 1,589 acres in size and is located west of US Highway 15-501, and north of Andrew's Store Road (SR 1528), and south of Mann's Chapel Road (SR 1532), approximately 5 miles south of Chapel Hill, in Chatham County, North Carolina. Coordinates (in decimal degrees) for the site are 35.8251 ° North, 79.1059 ° West. The site contains several unnamed tributaries of Pokeberry Creek and Wilkinson Creek, and adjacent wetlands, in the Cape Fear River Basin (8-Digit Cataloging Unit 03030002).

Existing Site Conditions

The land use in the area surrounding the project consists primarily of large lot residential subdivisions, forested tracts, and agricultural tracts. The area is currently subject to increasing commercial and residential development pressure, however, in part due to the on-going widening of US Highway 15-501, which borders the site to the east.

The land use on the project site itself is primarily in forest cover, which occupies approximately 88% of the total acreage. The remaining acreage is made up by developed sites (5%), wetlands (4%), and agricultural sites (3%). The site contains several tributaries to Pokeberry Creek, which runs from north to south through the heart of the property, and drains the majority of the land within the subdivision. The western-most portions of the site drain to Wilkinson Creek. A total of 61.4 acres of adjacent wetlands have also been identified on the site. Both Pokeberry and Wilkinson Creek flow into the Haw River several miles downstream of the site, which then flows into B. Everett Jordan Lake before merging with the Deep River to become the Cape Fear River.

Applicant's Stated Purpose

As stated by the applicant, the purpose of the project is to address the growing need for housing and commercial space in the area. The project will

Project Description

The project is a 1589-acre mixed-use development that will include construction of single-family residential areas, commercial and office space, community services such as parks, a County school, charter school, library, fire station, and EMS station, and over 900 acres of open space.

Development of the site will require extensive clearing, grading, excavation, and fill necessary for the construction of commercial and residential lots, roads, utility services and other infrastructure. Heavy equipment, including graders, pan scrapers, excavators, bull dozers, etc. will be used for the construction of the project. Completion of the project as proposed would require the construction of 15 stream channel or wetland crossings. Of these, one is proposed to be spanned by a bridge to avoid all impacts to streams and wetlands. The proposed permanent impact to stream channels resulting from the placement of fill material, culverts, and/or riprap totals 1,645 linear feet of stream channel, including 1,379 linear feet of perennial stream channel and 266 linear feet of intermittent stream channel. Proposed permanent impacts to wetlands resulting from the placement of fill material for roads, building pads, and other infrastructure totals 1.188 acres. Proposed temporary impacts resulting from the construction of utility lines includes the disturbance of 224 linear feet of perennial stream channel and 0.1473 acre of wetlands for 13 crossings. Plans included with this notice that show the overall proposed site layout as well as the details for impacted streams and wetlands.

The applicant proposes to mitigate for the impacts to stream channels associated with the project with the restoration of 2,229 linear feet of stream channel. The majority of mitigation is to be provided with the construction of the Harpers Crossroads stream mitigation site, which is expected to generate up to 2,200 linear feet of stream mitigation credit. The remaining 29 linear feet of stream mitigation will be provided by payment into the North Carolina Ecosystem Enhancement Program. To mitigate for impacts to wetlands associated with the project, the applicant also proposes payment into the North Carolina Ecosystem Enhancement Program for the restoration of 2.128 acre of riparian wetlands.

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, 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: Ms Cyndi Karoly by July 6, 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 has determined that registered properties, or properties listed as being eligible for inclusion therein are located within the project area and/or will be affected by the proposed work. The project site contains a listed structure known as the Evander Rigsbee House. Impacts to the structure may include relocation or destruction.

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 has determined pursuant to the Endangered Species Act of 1973, that the proposed project will have no effect on federally listed endangered or threatened species or their formally designated critical habitat.

Evaluation

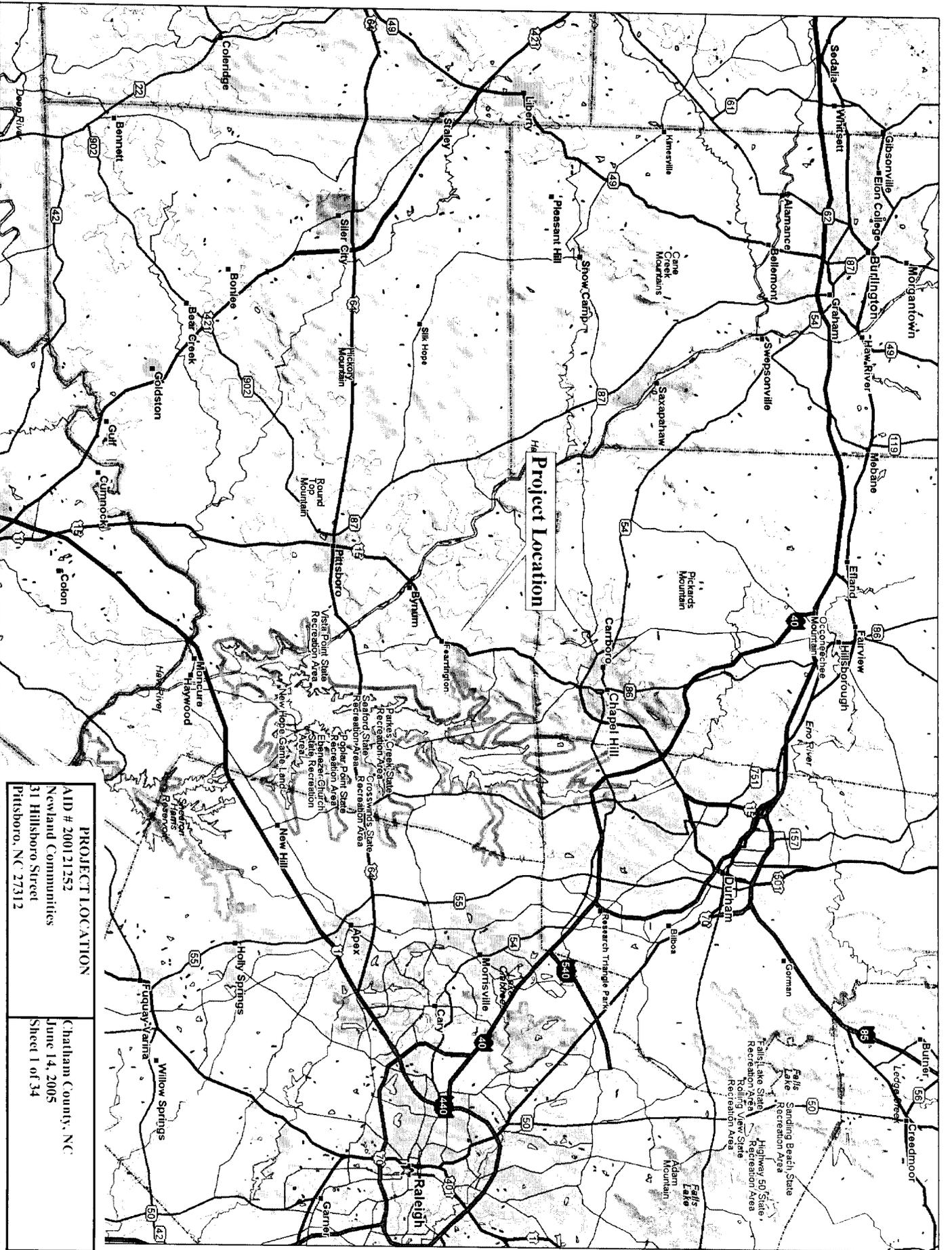
The decision whether to issue a permit will be based on an evaluation of the probable impacts, including cumulative impacts, of the proposed activity on the public interest. That decision will reflect the national concern for both protection and utilization of important resources. The benefit which reasonably 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, including any consolidate State Viewpoint or written position of the Governor; 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.

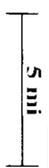
Written comments pertinent to the proposed work, as outlined above, will be received by the Corps of Engineers, Wilmington District, until 5pm, July 13, 2005. Comments should be submitted to Todd Tugwell, Raleigh Regulatory Field Office, 6508 Falls of the Neuse Road, Suite 120, Raleigh, NC 27615.



PROJECT LOCATION
 AID # 200121252
 Newland Communities
 31 Hillsboro Street
 Pishtopo, NC 27312

Chatham County, NC
 June 14, 2005
 Sheet 1 of 34

Scale: 1 : 400,000 Zoom Level: 9-0 Datum: NAD27 Map Rotation: 0° Magnetic Declination: 8.2°W



IMPACT TOTALS	
AID # 200121252	Chatham County, NC
Newland Communities	June 14, 2005
31 Hillsboro Street	Sheet 2 of 34
Pittsboro, NC 27312	

Road Crossings and Lot Fill

Impact Title	Linear Feet of Perennial Stream	Linear feet of Intermittent Stream	Acreage of Wetlands	DWQ's Stream Determination
Crossing A	0	0	0.033	Not a Channel
Crossing B	95	0	0	Perennial
Crossing C	0	0	0	Perennial
Crossing D	150	0	0.04	Perennial
Crossing E	150	0	0.006	Perennial
Crossing F	140	0	0	Perennial
Crossing G	187	0	0.003	Perennial
Crossing H	162	0	0	Perennial
Crossing I	0	130	0.0009	Intermittent
Crossing J	150	0	0	Perennial
Crossing K	0	136	0.11	Not a Channel
Crossing L	105	0	0.008	Perennial
Crossing M	100	0	0	Perennial
N	0	0	0.89	Not a Channel
Crossing O	140	0	0	Perennial
Crossing P	0	0	0.035	Not a Channel
TOTAL	1379	266	1.188	

Temporary Utility Impacts

Impact Title	Linear Feet of Perennial Stream	Linear feet of Intermittent Stream	Acreage of Wetlands
Utility Crossing 1	20	0	0
Utility Crossing 2	20	0	0
Utility Crossing 3	20	0	0
Utility Crossing 4	21	0	0
Utility Crossing 5	20	0	0
Utility Crossing 6	20	0	0
Utility Crossing 7	20	0	0
Utility Crossing 8	20	0	0
Utility Crossing 9	20	0	0.123
Utility Crossing 10	0	0	0.01
Utility Crossing 11	19	0	0.0003
Utility Crossing 12	0	0	0.014
Utility Crossing 13	24	0	0
TOTAL	224	0	0.1473

USGS Map
Briar Chapel
Newland Communities
Chatham County, NC



Project No.
5815.W0
Project Mgr.:
SC
Scale:
1"=2,000'
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03/28/05



USGS TOPOGRAPHIC MAP
AID # 200121252
Newland Communities
31 Hillsboro Street
Pittsboro, NC 27312

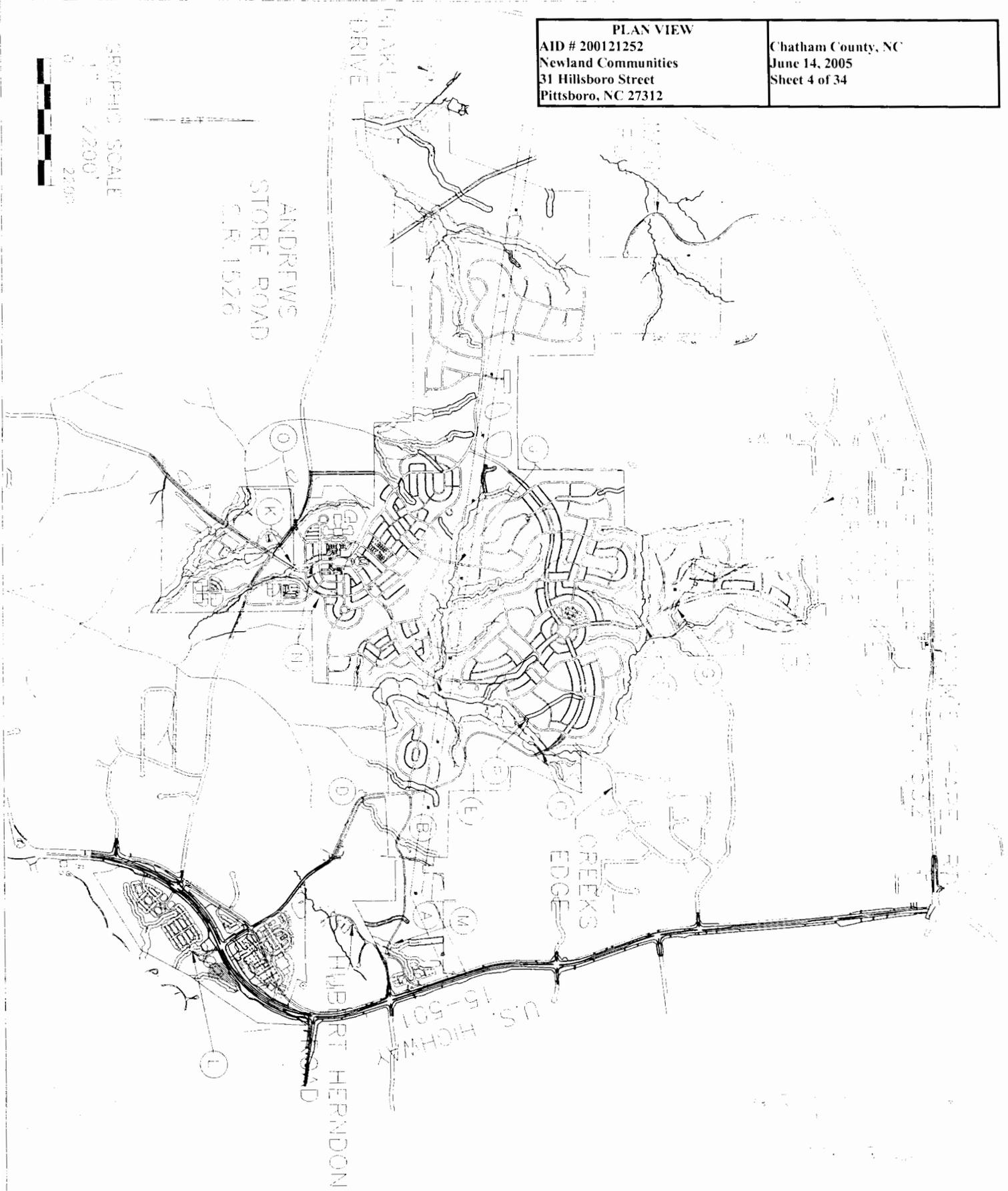
Chatham County, NC
June 14, 2005
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Soil & Environmental Consultants, PA
11010 Raven Ridge Rd. • Raleigh, NC 27614
(919) 846-5900 • (919) 846-9467
Web Page: www.SandEC.com

PLAN VIEW AID # 200121252 Newland Communities 31 Hillsboro Street Pittsboro, NC 27312	Chatham County, NC June 14, 2005 Sheet 4 of 34
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GRAPHIC SCALE
 1" = 2200'
 0 2200'



McADAMS	PROJECT NO. NEW-03002
	FILENAME: NEW03000X
	SCALE: 1"=2200'
	DATE: 12-30-04

BRIAR CHAPEL
 OVERALL IMPACT MAP
 CHATHAM COUNTY, NORTH CAROLINA

THE JOHN R. McADAMS COMPANY, INC.
 ENGINEERS/PLANNERS/SURVEYORS
 RESEARCH TRIANGLE PARK, NC
 P.O. BOX 14005 ZIP 27709 4005
 (919) 361-5000

CULVERT - IMPACT A

AID # 200121252
Newland Communities
31 Hillsboro Street
Pittsboro, NC 27312

Chatham County, NC
June 14, 2005
Sheet 5 of 34

514
512
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508
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500
498
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484

482

WETLANDS

GRAPHIC SCALE



1 inch = 40 ft.

WETLAND IMPACT=0.033 AC
CHANNEL IMPACT=0 LF
35 LF 42" RCP
50 LF R.P. RAP APRON

McADAMS

PROJECT NO. NEW-03000

FILENAME: NEW03000-G3(A)

SCALE: 1"=40'

DATE: 12-06-04

BRIAR CHAPEL
CULVERT CROSSING SECTION - A
CHATHAM COUNTY, NORTH CAROLINA

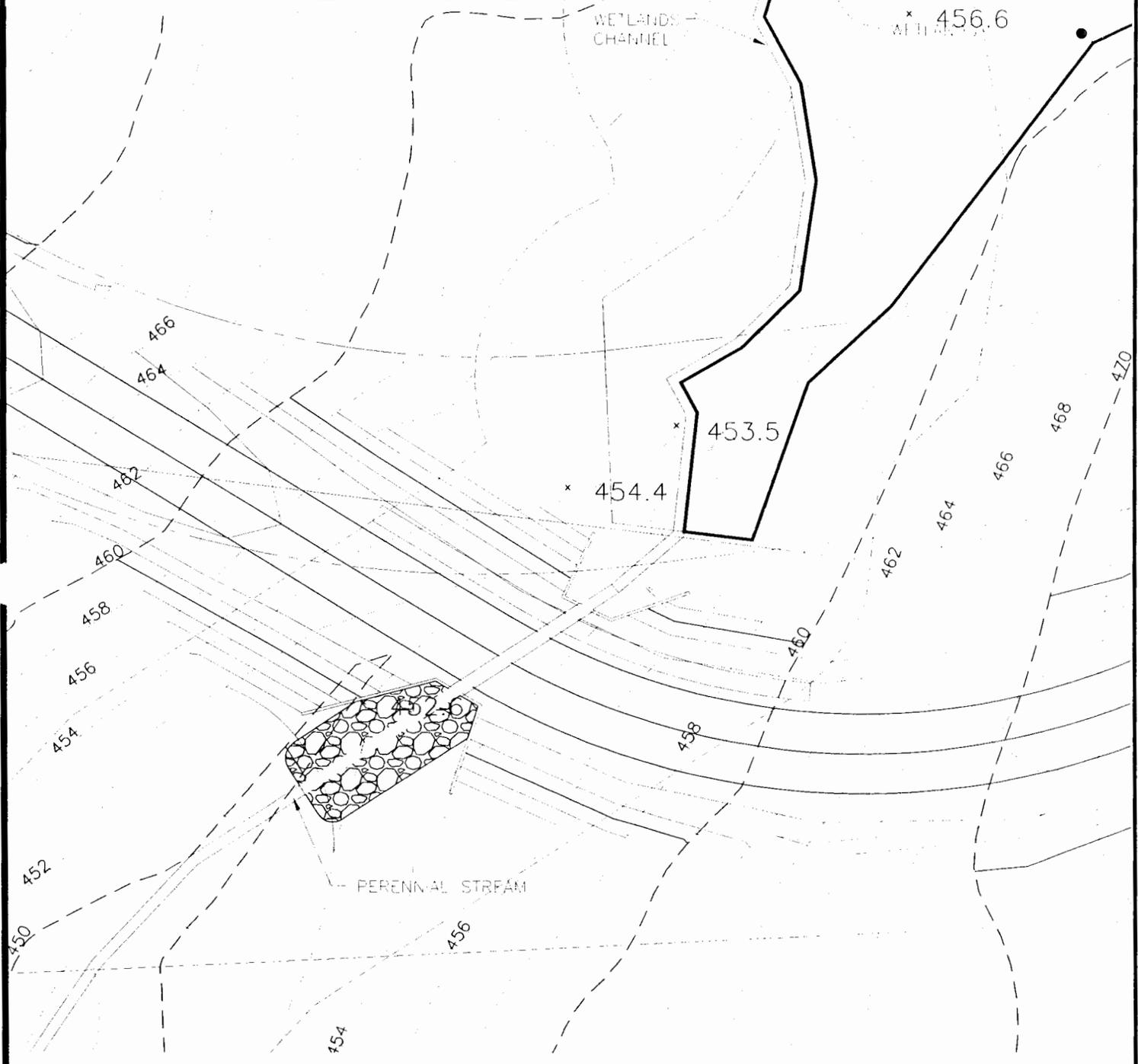


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RESEARCH TRIANGLE PARK, NC
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CULVERT - IMPACT B AID # 200121252 Newland Communities 31 Hillsboro Street Pittsboro, NC 27312	Chatham County, NC June 14, 2005 Sheet 6 of 34
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GRAPHIC SCALE



1 inch = 40 ft.

WETLAND IMPACT: 0.00 AC
 CHANNEL IMPACT: 95 LF, 280 LF
 45 LF 48" RCP
 50 LF RIP RAP APRON

McADAMS	PROJECT NO. NEW-03000
	FILENAME: NEW03000-03(E)
	SCALE: 1"=40'
	DATE: 12-08-04

BRIAR CHAPEL
CULVERT CROSSING SECTION - B
 CHATHAM COUNTY, NORTH CAROLINA

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BRIDGE - IMPACT C

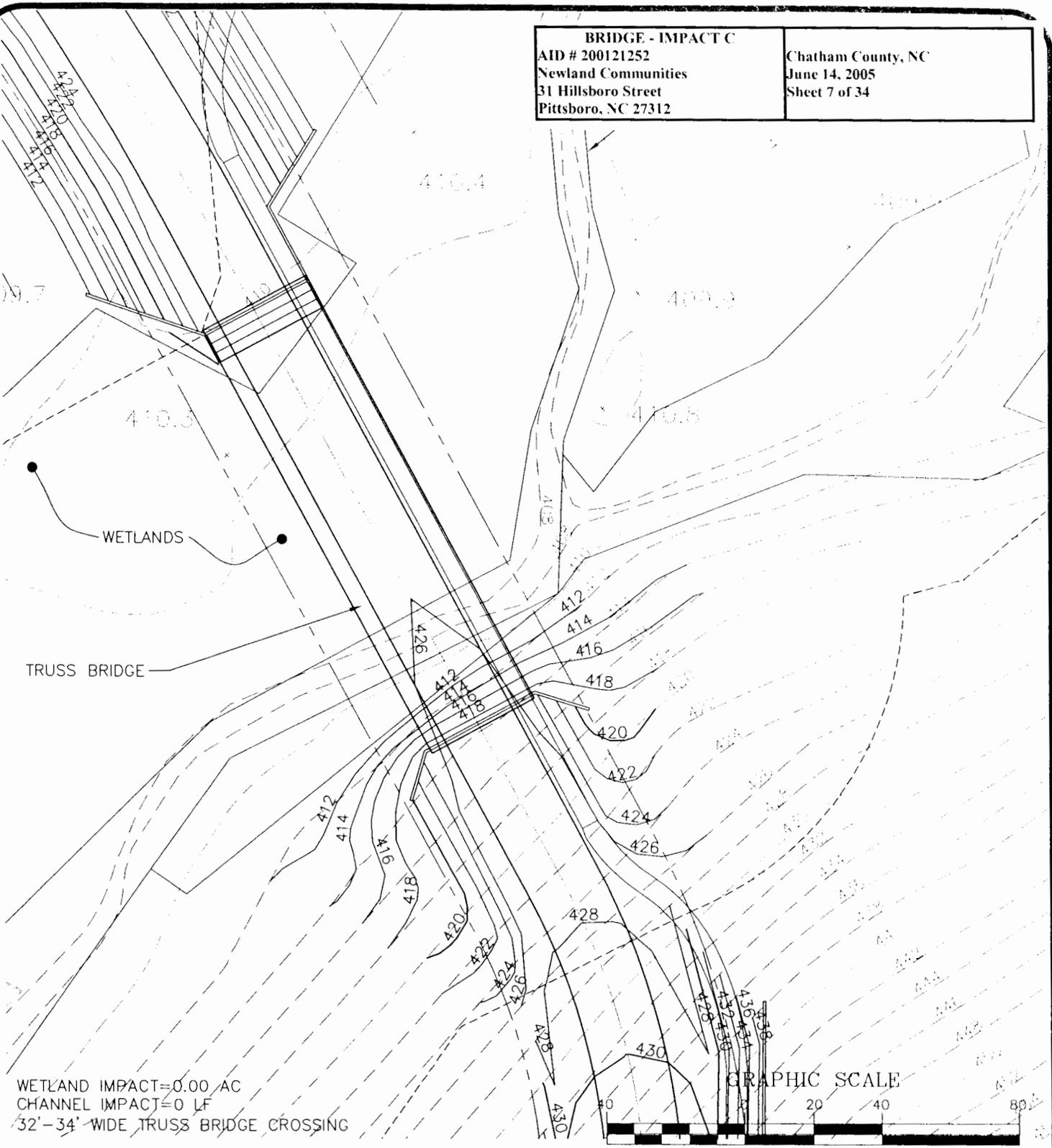
AID # 200121252
Newland Communities
31 Hillsboro Street
Pittsboro, NC 27312

Chatham County, NC
June 14, 2005
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200\Land\Construction Drawings\Wetlands\April 2005 Wetlands Exhibits\NEW030

C:\Projects\NEW\NEV



WETLAND IMPACT=0.00 AC
CHANNEL IMPACT=0 LF
32'-34' WIDE TRUSS BRIDGE CROSSING

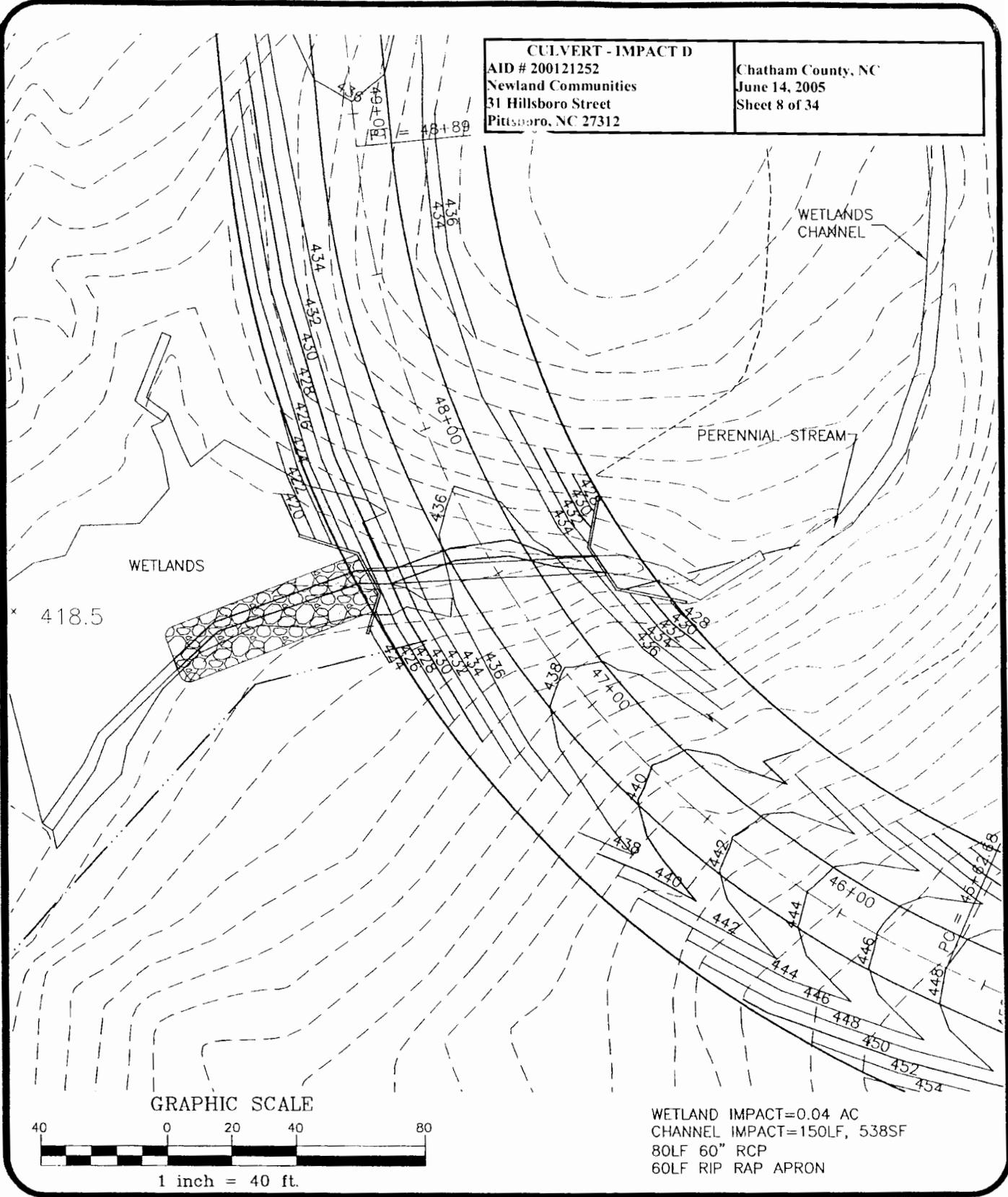
NOTE:
CURRENT PLANS INDICATE A CLEAR SPAN. DEPENDING ON RESULTS OF SOIL BORINGS, 12" X 12" PILES, SPACED AT 7'-8' INTERVALS MAY BE REQUIRED TO ADEQUATELY SUPPORT SPAN. CONSTRUCTION METHODS MAY INCLUDE DRILLING INTO BEDROCK CREATING A DE MINIMUS DISCHARGE INTO WATER OF THE U.S. HOWEVER, THE PILES WILL BE DRIVEN INTO PLACE AND WILL NOT REQUIRE CONCRETE FOOTERS OR ABUTMENTS.

PROJECT NO.	NEW-03000
FILENAME	NEW03000-G(C)
SCALE:	1"=40'
DATE:	12-06-04

BRIAR CHAPEL
BRIDGE CROSSING SECTION-C
 CHATHAM COUNTY, NORTH CAROLINA

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 (919) 361-5000

CULVERT - IMPACT D AID # 200121252 Newland Communities 31 Hillsboro Street Pittsboro, NC 27312	Chatham County, NC June 14, 2005 Sheet 8 of 34
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	FILENAME NEW03000-G(D)
	SCALE: 1"=40'
	DATE: 12-06-04

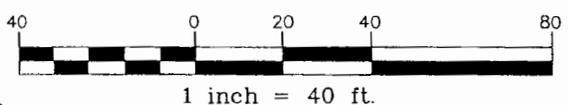
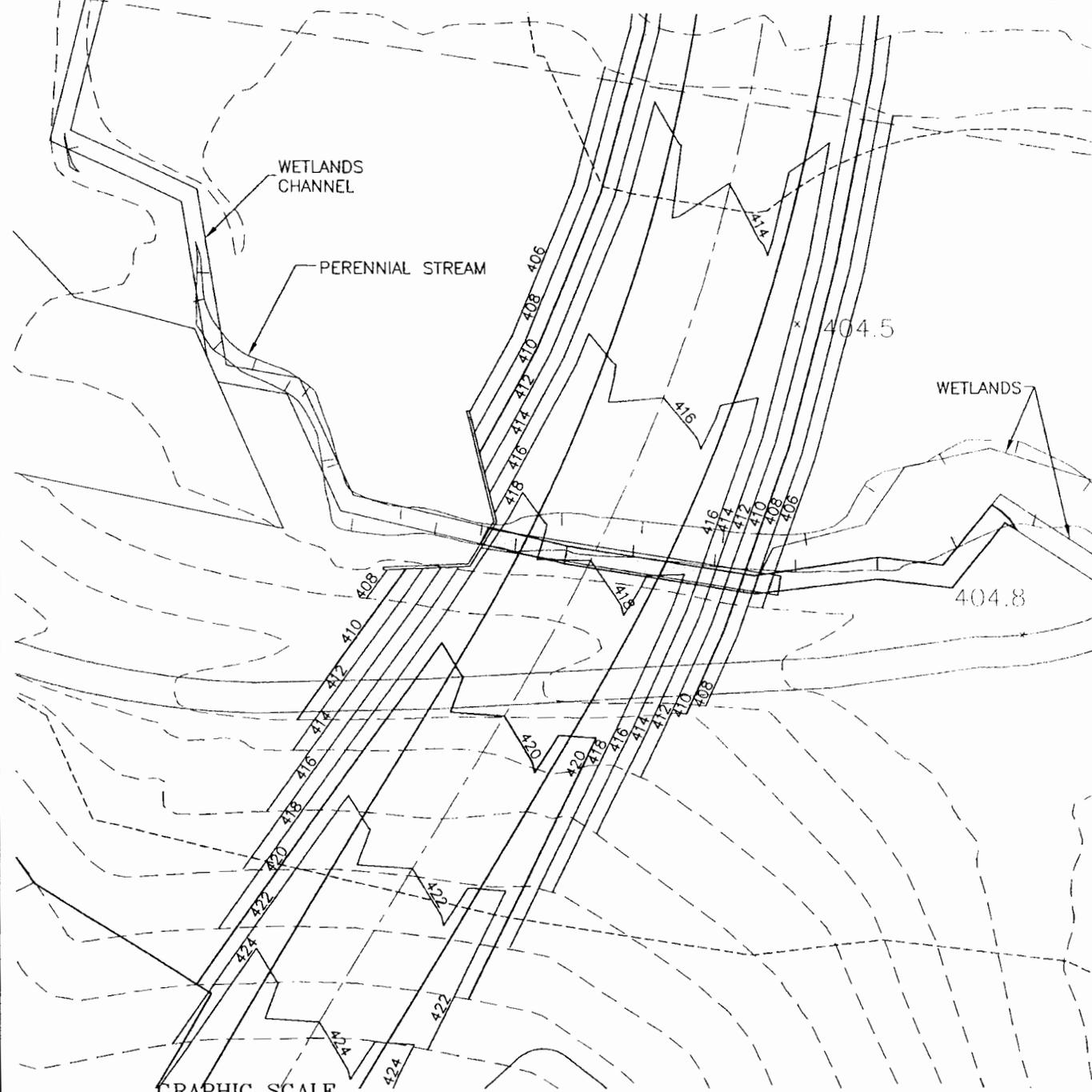
BRIAR CHAPEL

CULVERT CROSSING SECTION-D

CHATHAM COUNTY, NORTH CAROLINA

THE JOHN R. McADAMS COMPANY, INC.
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 RESEARCH TRIANGLE PARK, NC
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 (919) 381-5000

CULVERT - IMPACT E	Chatham County, NC
AID # 200121252	June 14, 2005
Newland Communities	Sheet 9 of 34
31 Hillsboro Street	
Pittsboro, NC 27312	



WETLAND IMPACT=0.006 AC
 CHANNEL IMPACT=150LF, 842SF
 85LF 66" RCP
 60LF RIP RAP APRON

McADAMS	PROJECT NO. NEW-03000
	FILENAME NEW03000-G(E)
	SCALE: 1" - 40'
	DATE: 12-06-04

BRIAR CHAPEL

CULVERT CROSSING SECTION-E

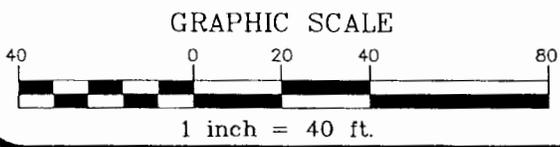
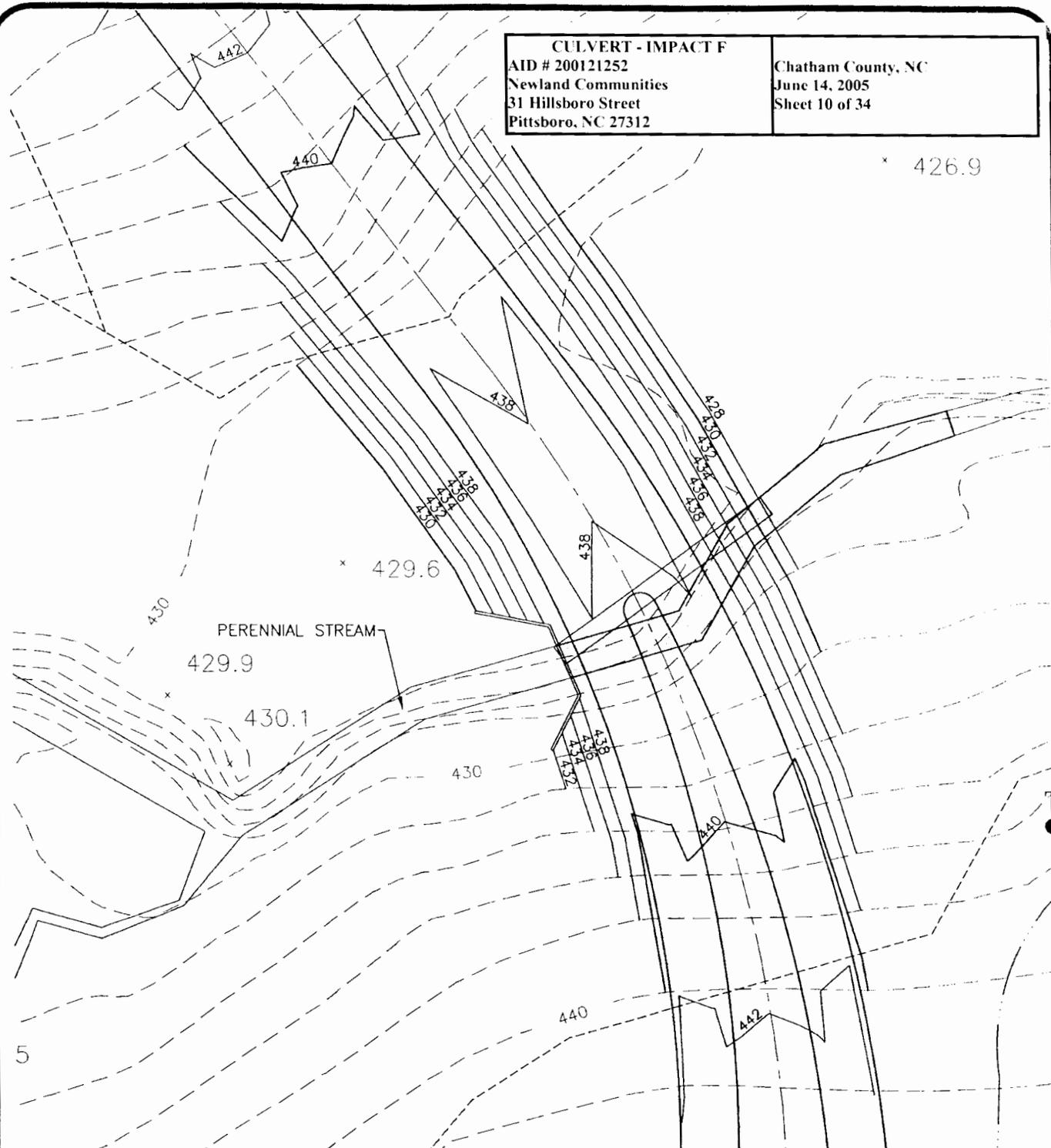
CHATHAM COUNTY, NORTH CAROLINA

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 RESEARCH TRIANGLE PARK, NC
 P.O. BOX 14005 ZIP 27709-4005
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CULVERT - IMPACT F	Chatham County, NC
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31 Hillsboro Street	
Pittsboro, NC 27312	

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CHANNEL IMPACT=140LF, 1361SF
 75LF 72" RCP
 60LF RIP RAP APRON

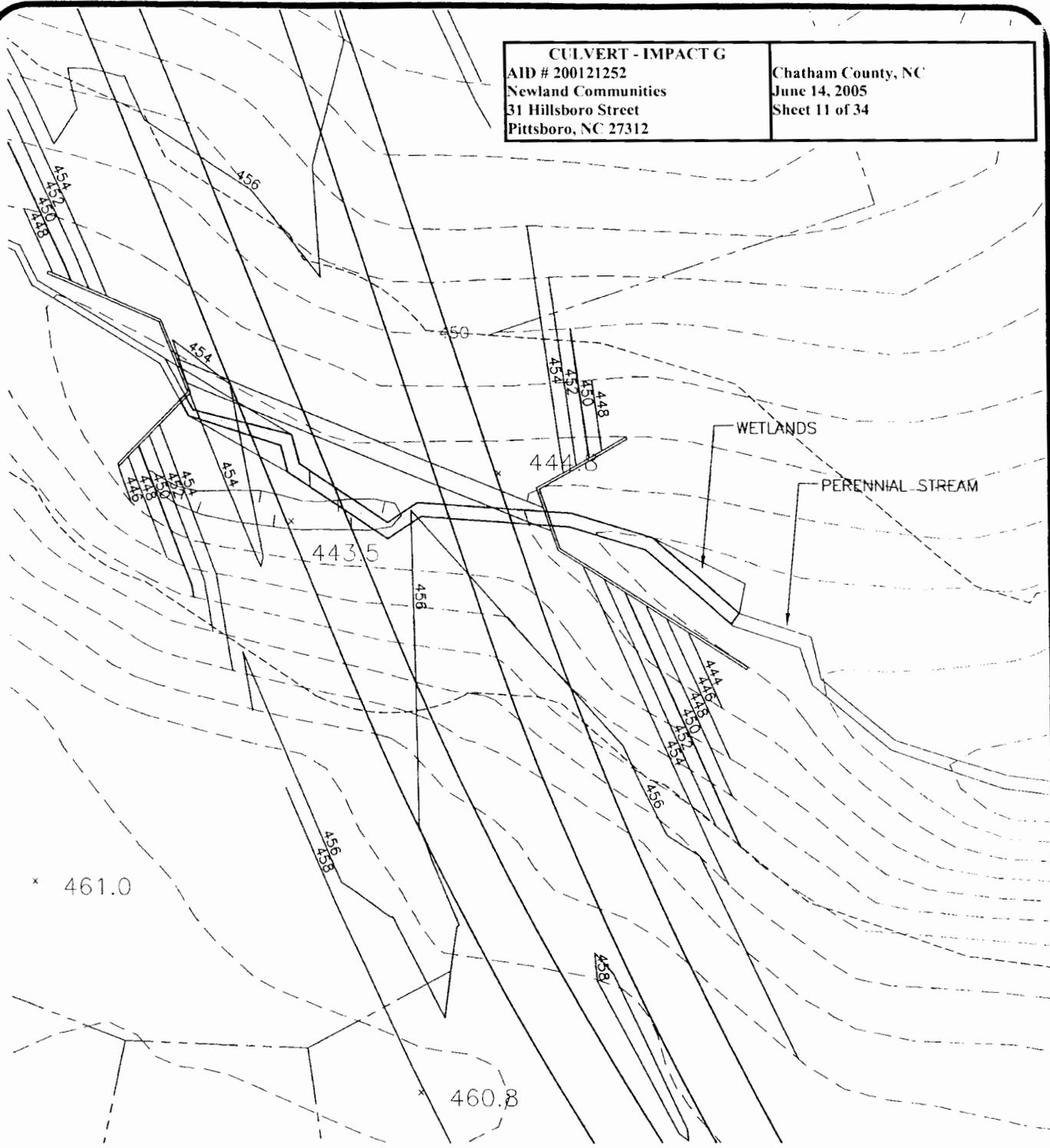
PROJECT NO.	NEW-03000
FILENAME	NEW03000-G(F)
SCALE:	1"=40'
DATE:	12-06-04

BRIAR CHAPEL
CULVERT CROSSING SECTION-F
 CHATHAM COUNTY, NORTH CAROLINA

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CULVERT - IMPACT G AID # 200121252 Newland Communities 31 Hillsboro Street Pittsboro, NC 27312	Chatham County, NC June 14, 2005 Sheet 11 of 34
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WETLANDS IMPACT= 130SF
 CHANNEL IMPACT=187LF, 714SF
 120LF 66" RCP
 60LF RIP RAP APRON

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	PROJECT NO. NEW-03000
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	SCALE: 1"=40'
	DATE: 12-06-04

BRIAR CHAPEL
CULVERT CROSSING SECTION-G
 CHATHAM COUNTY, NORTH CAROLINA

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 P.O. BOX 14005 ZIP 27709-4005
 (919) 361-5000

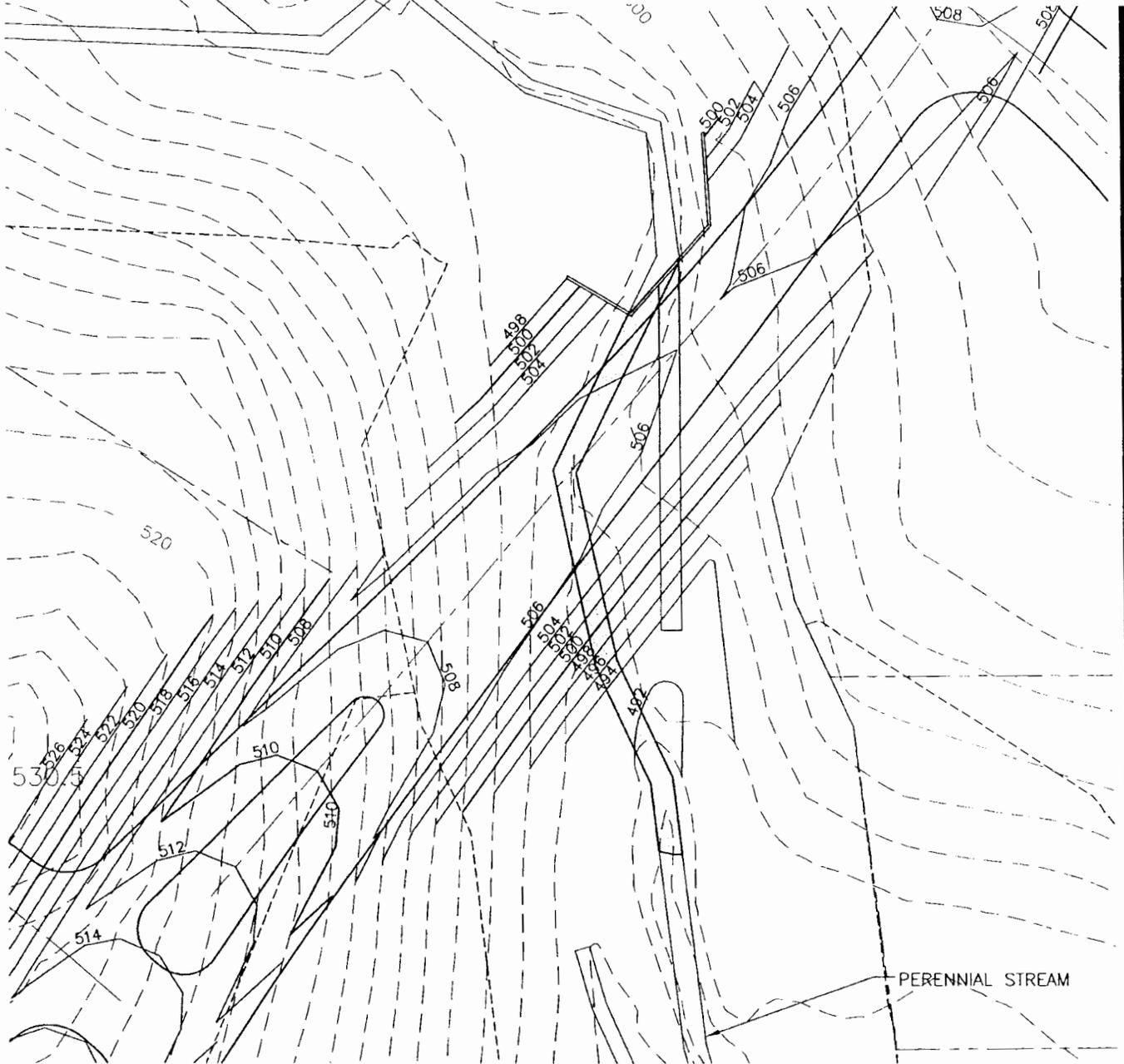
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CULVERT - IMPACT H

AID # 200121252
Newland Communities
31 Hillsboro Street
Pittsboro, NC 27312

Chatham County, NC
June 14, 2005
Sheet 12 of 34



GRAPHIC SCALE



1 inch = 40 ft.

CHANNEL IMPACT=162LF, 977SF
100LF 66" RCP
60LF RIP RAP APRON

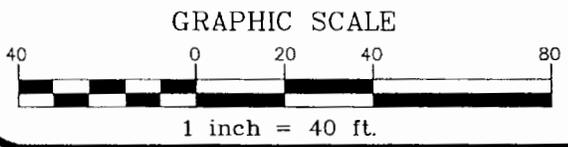
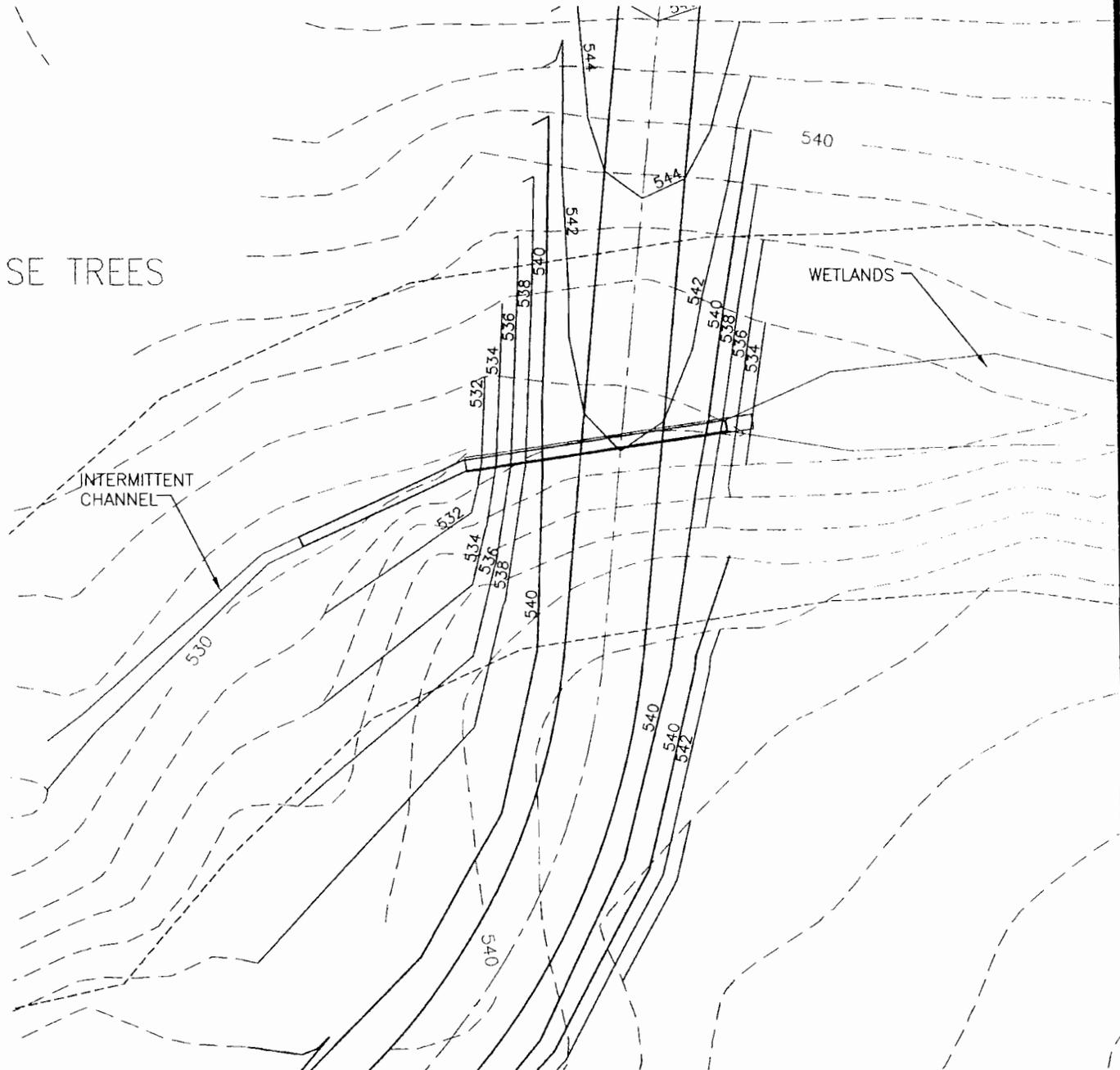
PROJECT NO.	NEW-03000
FILENAME	NEW03000-G(H)
SCALE:	1"=40'
DATE:	12-06-04

BRIAR CHAPEL
CULVERT CROSSING SECTION-H
 CHATHAM COUNTY, NORTH CAROLINA

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 (919) 381-5000

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CULVERT - IMPACT I	
AID # 200121252 Newland Communities 31 Hillsboro Street Pittsboro, NC 27312	
Chatham County, NC June 14, 2005 Sheet 13 of 34	



WETLANDS IMPACT=38SF
 CHANNEL IMPACT=130LF, 366SF
 80LF 48" RCP
 50LF RIP RAP APRON

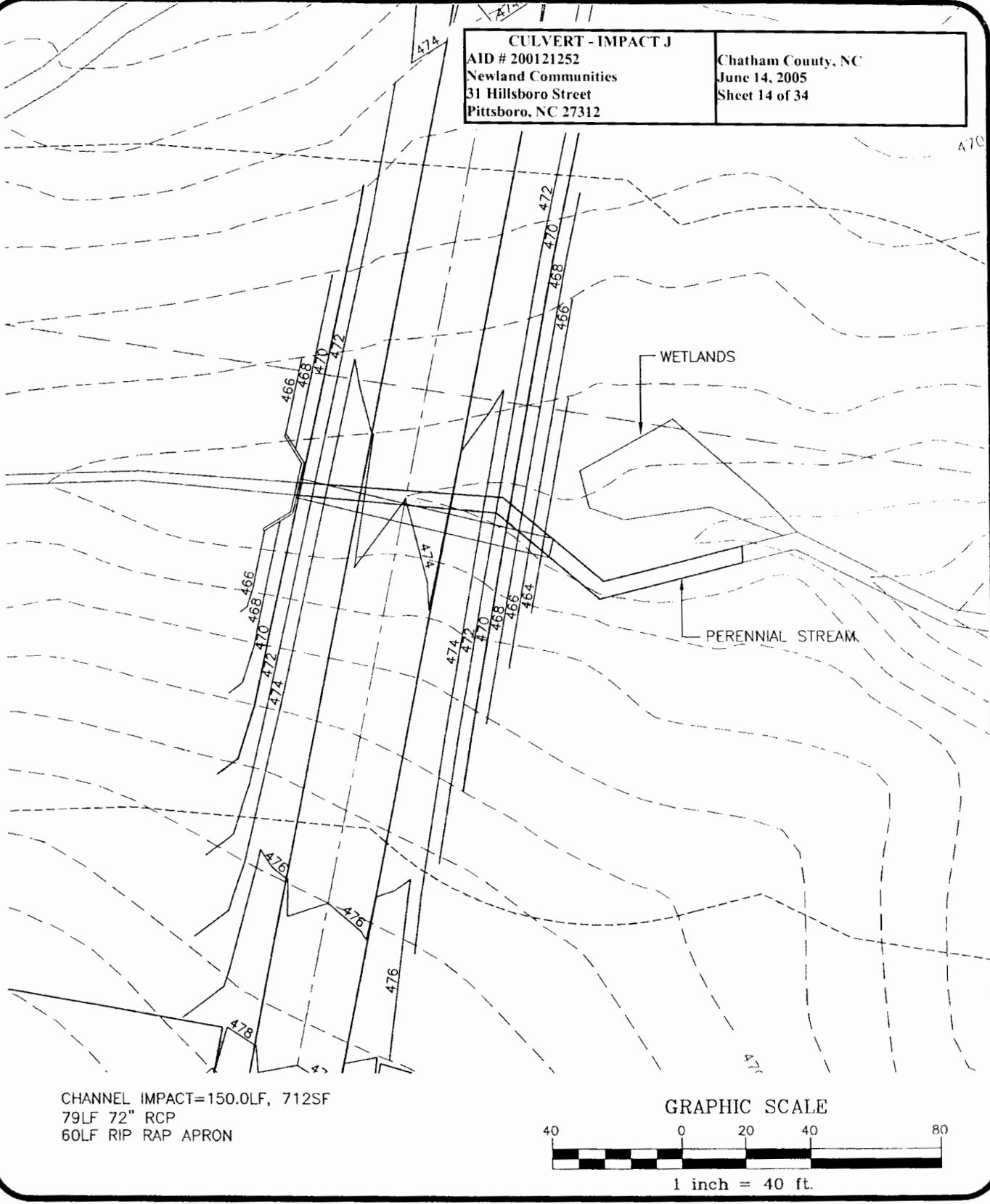
McADAMS	PROJECT NO. NEW-03000
	FILENAME: NEW03000-G(1)
	SCALE: 1"=40'
	DATE: 12-06-04

BRIAR CHAPEL
CULVERT CROSSING SECTION-I
 CHATHAM COUNTY, NORTH CAROLINA

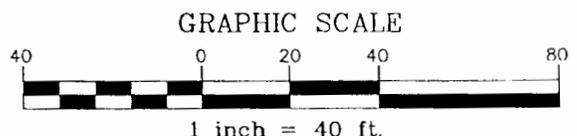
THE JOHN R. McADAMS
COMPANY, INC.

ENGINEERS/PLANNERS/SURVEYORS
 RESEARCH TRIANGLE PARK, NC
 P.O. BOX 14005 ZIP 27709-4005
 (919) 361-5000

CULVERT - IMPACT J AID # 200121252 Newland Communities 31 Hillsboro Street Pittsboro, NC 27312	Chatham County, NC June 14, 2005 Sheet 14 of 34
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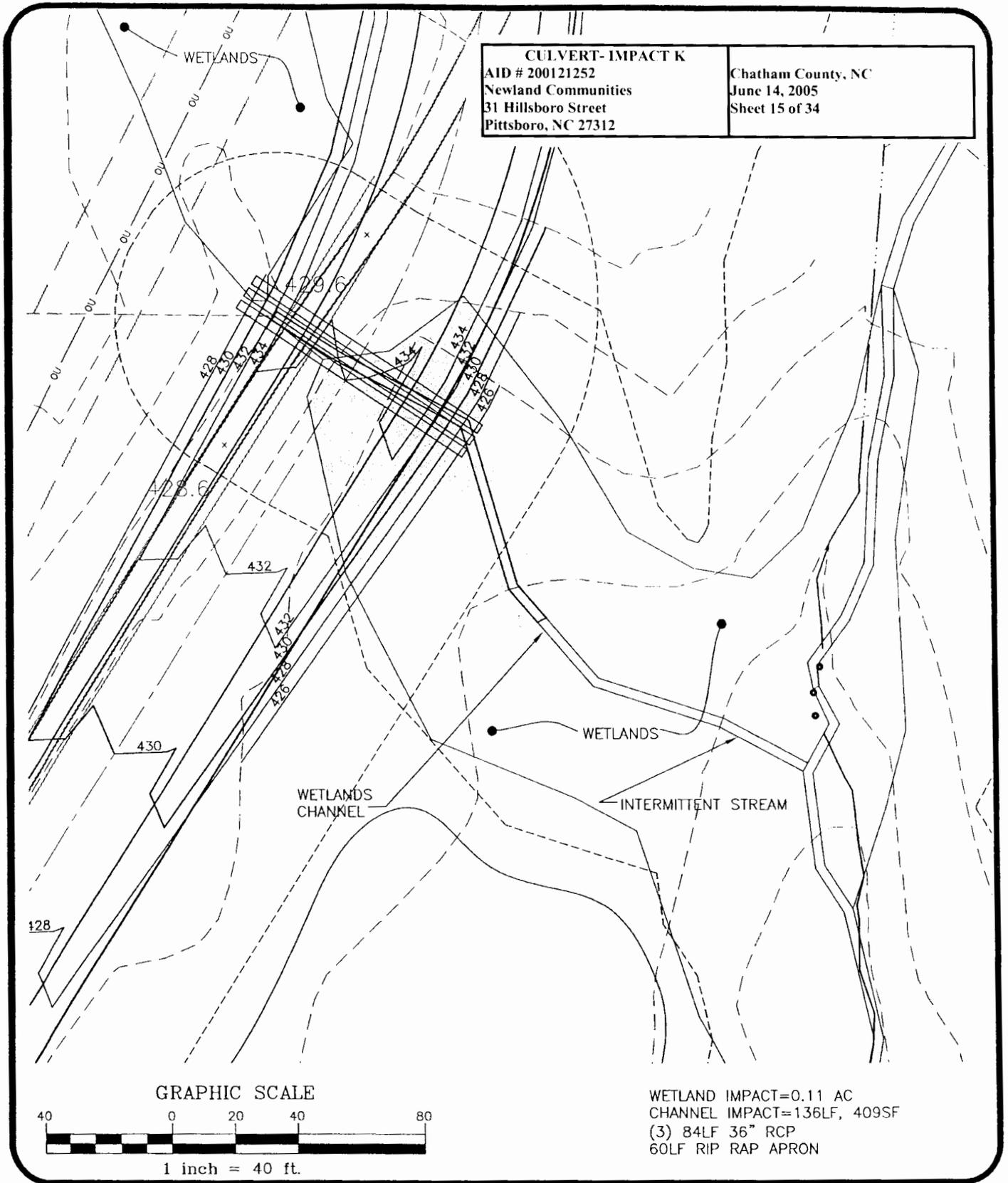
CHANNEL IMPACT=150.0LF, 712SF
 79LF 72" RCP
 60LF RIP RAP APRON



McADAMS	PROJECT NO. NEW-03000
	FILENAME: NEW03000-G(J)
	SCALE: 1"=40'
	DATE: 12-06-04

BRIAR CHAPEL
CULVERT CROSSING SECTION-J
 CHATHAM COUNTY, NORTH CAROLINA

THE JOHN R. McADAMS COMPANY, INC.
 ENGINEERS/PLANNERS/SURVEYORS
 RESEARCH TRIANGLE PARK, NC
 P.O. BOX 14005 ZIP 27709-4005
 (919) 381-5000



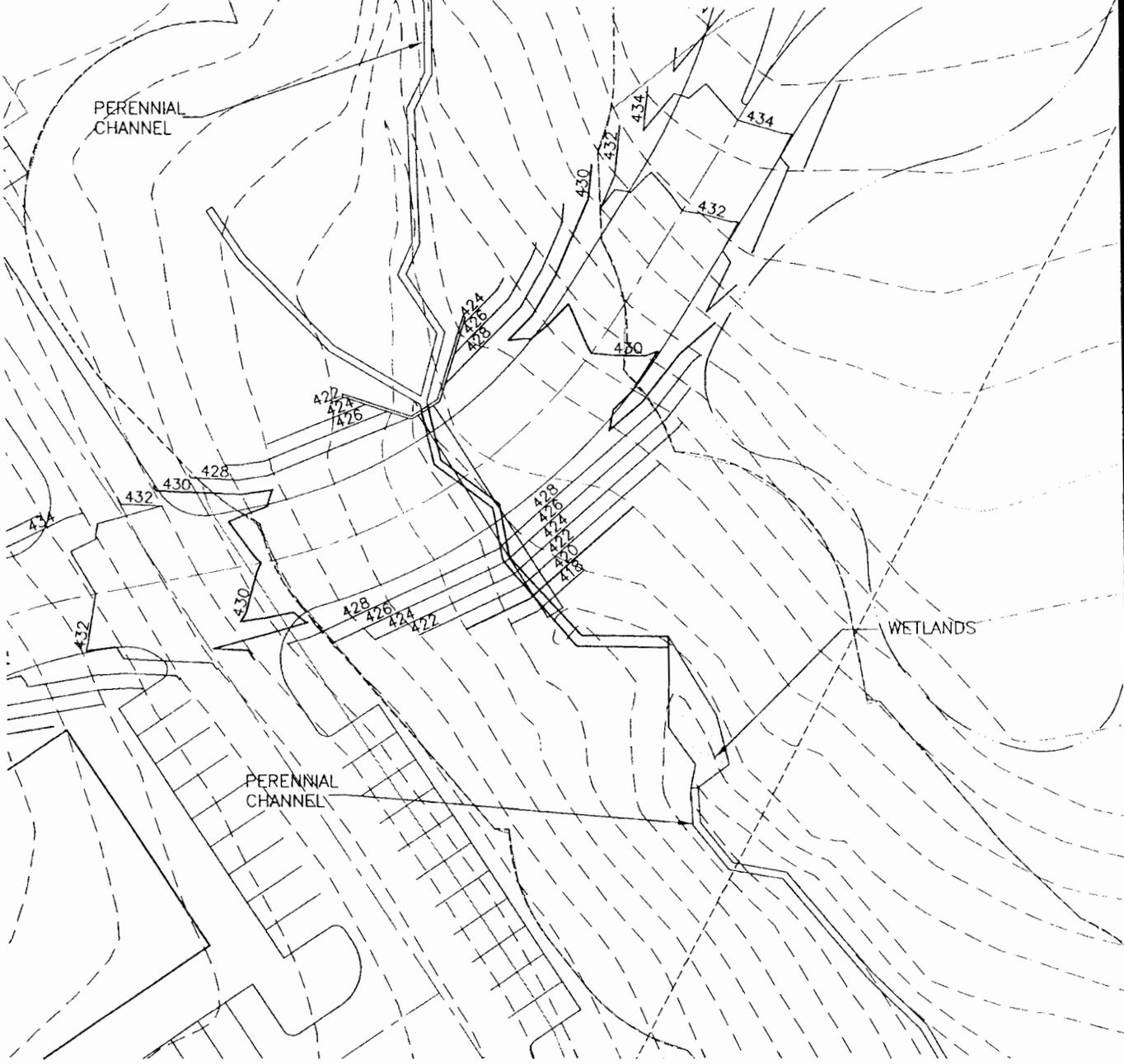
PROJECT NO.	NEW-03000
FILENAME	NEW03000-G(K)
SCALE:	1"=40'
DATE:	12-06-04

BRIAR CHAPEL
CULVERT CROSSING SECTION-K
 CHATHAM COUNTY, NORTH CAROLINA

THE JOHN R. McADAMS COMPANY, INC.
 ENGINEERS/PLANNERS/SURVEYORS
 RESEARCH TRIANGLE PARK, NC
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 (919) 361-5000

CULVERT - IMPACT L
 AID # 200121252
 Newland Communities
 31 Hillsboro Street
 Pittsboro, NC 27312

Chatham County, NC
 June 14, 2005
 Sheet 16 of 34



GRAPHIC SCALE



1 inch = 40 ft.

WETLAND IMPACT=0.008 AC
 CHANNEL IMPACT=105LF, 246SF
 65LF 60" RCP
 60LF RIP RAP APRON

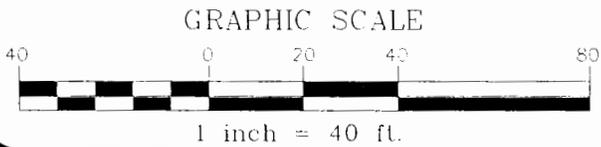
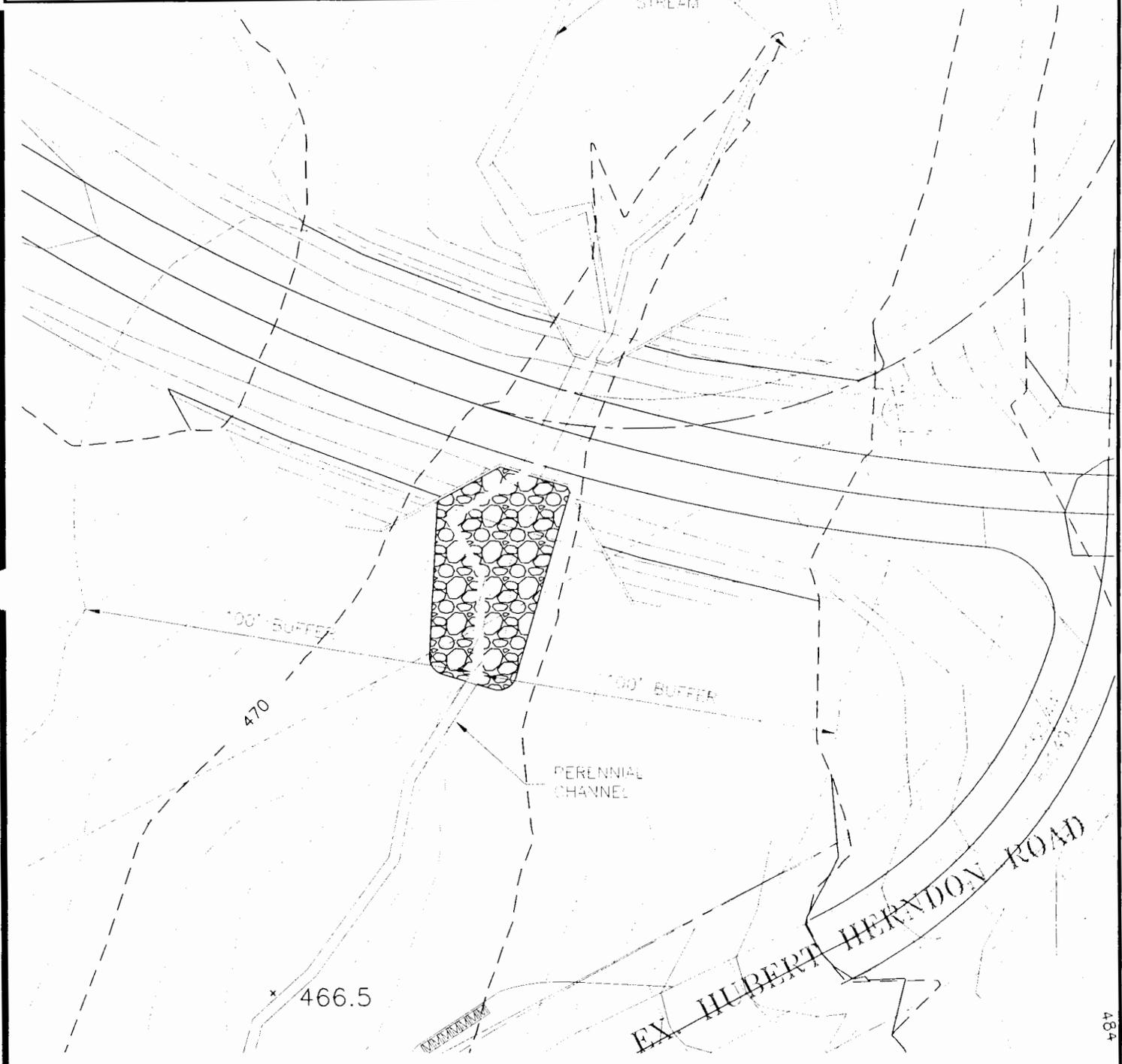
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McADAMS	PROJECT NO. NEW-03000
	FILENAME: NEW03000-G(L)
	SCALE: 1"=40'
	DATE: 12-06-04

BRIAR CHAPEL
CULVERT CROSSING SECTION-L
 CHATHAM COUNTY, NORTH CAROLINA

THE JOHN R. McADAMS COMPANY, INC.
 ENGINEERS/PLANNERS/SURVEYORS
 RESEARCH TRIANGLE PARK, NC
 P.O. BOX 14005 ZIP 27709-4005
 (919) 381-5000

CULVERT - IMPACT M AID # 200121252 Newland Communities 31 Hillsboro Street Pittsboro, NC 27312	Chatham County, NC June 14, 2005 Sheet 17 of 34
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WETLAND IMPACT=0.00 LF
 CHANNEL IMPACT=100 LF, 2.50 LF
 35 LF 72" ROP
 60 LF RIP RAP APRON

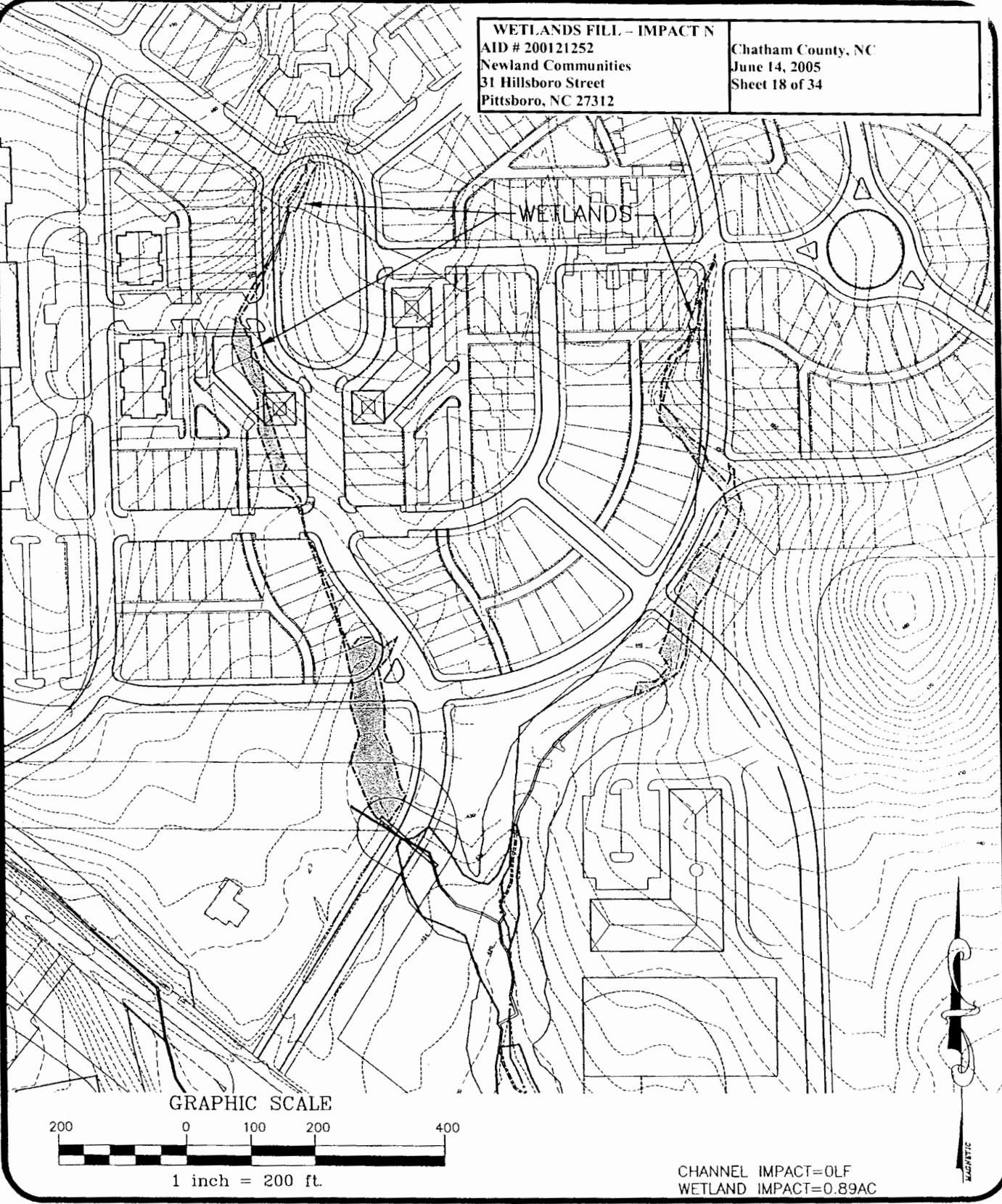
	PROJECT NO. NEW-03000
	FILENAME: NEW03000-G3(M)
	SCALE: 1"=40'
	DATE: 12-03-04

BRIAR CHAPEL
 CULVERT CROSSING SECTION - M
 CHATHAM COUNTY, NORTH CAROLINA

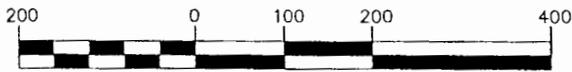
THE JOHN R. McADAMS COMPANY, INC.
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 RESEARCH TRIANGLE PARK, NC
 P.O. BOX 14005 ZIP 27709-4005
 (919) 361-5000

WETLANDS FILL - IMPACT N
 AID # 200121252
 Newland Communities
 31 Hillsboro Street
 Pittsboro, NC 27312

Chatham County, NC
 June 14, 2005
 Sheet 18 of 34



GRAPHIC SCALE



1 inch = 200 ft.

CHANNEL IMPACT=0LF
 WETLAND IMPACT=0.89AC

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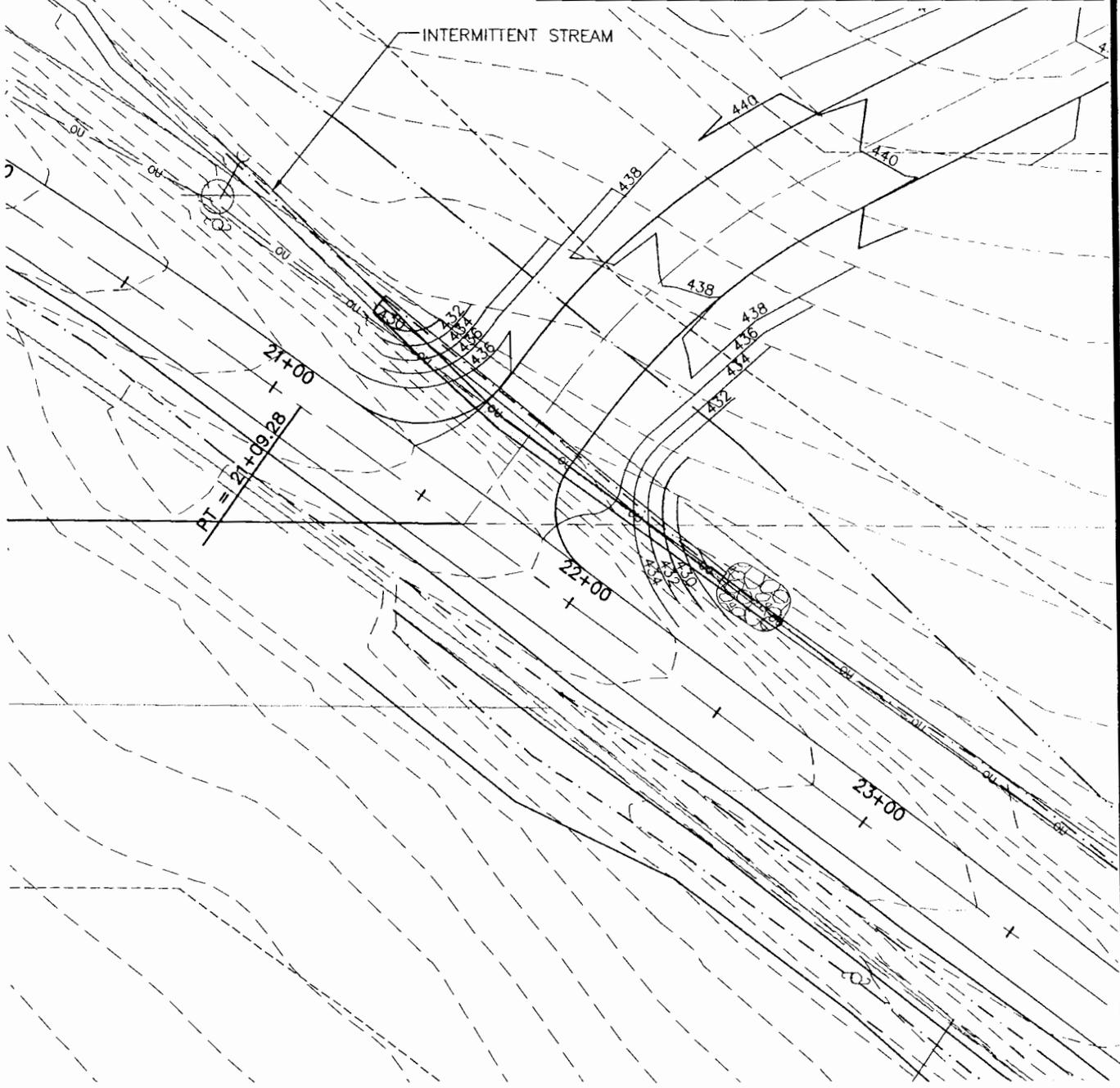
McADAMS

PROJECT NO.	NEW-03000
FILENAME	NEW03000-G(N)
SCALE:	1"=40'
DATE:	12-09-04

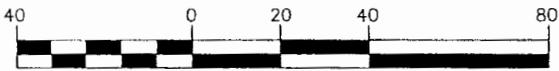
BRIAR CHAPEL
WETLANDS FILL SECTION-N
 CHATHAM COUNTY, NORTH CAROLINA

THE JOHN R. McADAMS
COMPANY, INC.
 ENGINEERS/PLANNERS/SURVEYORS
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 (919) 361-5000

CULVERT - IMPACT O AID # 200121252 Newland Communities 31 Hillsboro Street Pittsboro, NC 27312	Chatham County, NC June 14, 2005 Sheet 19 of 34
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GRAPHIC SCALE



1 inch = 40 ft.

CHANNEL IMPACT=140LF, 454SF
 120LF 36" RCP
 20LF RIP RAP APRON

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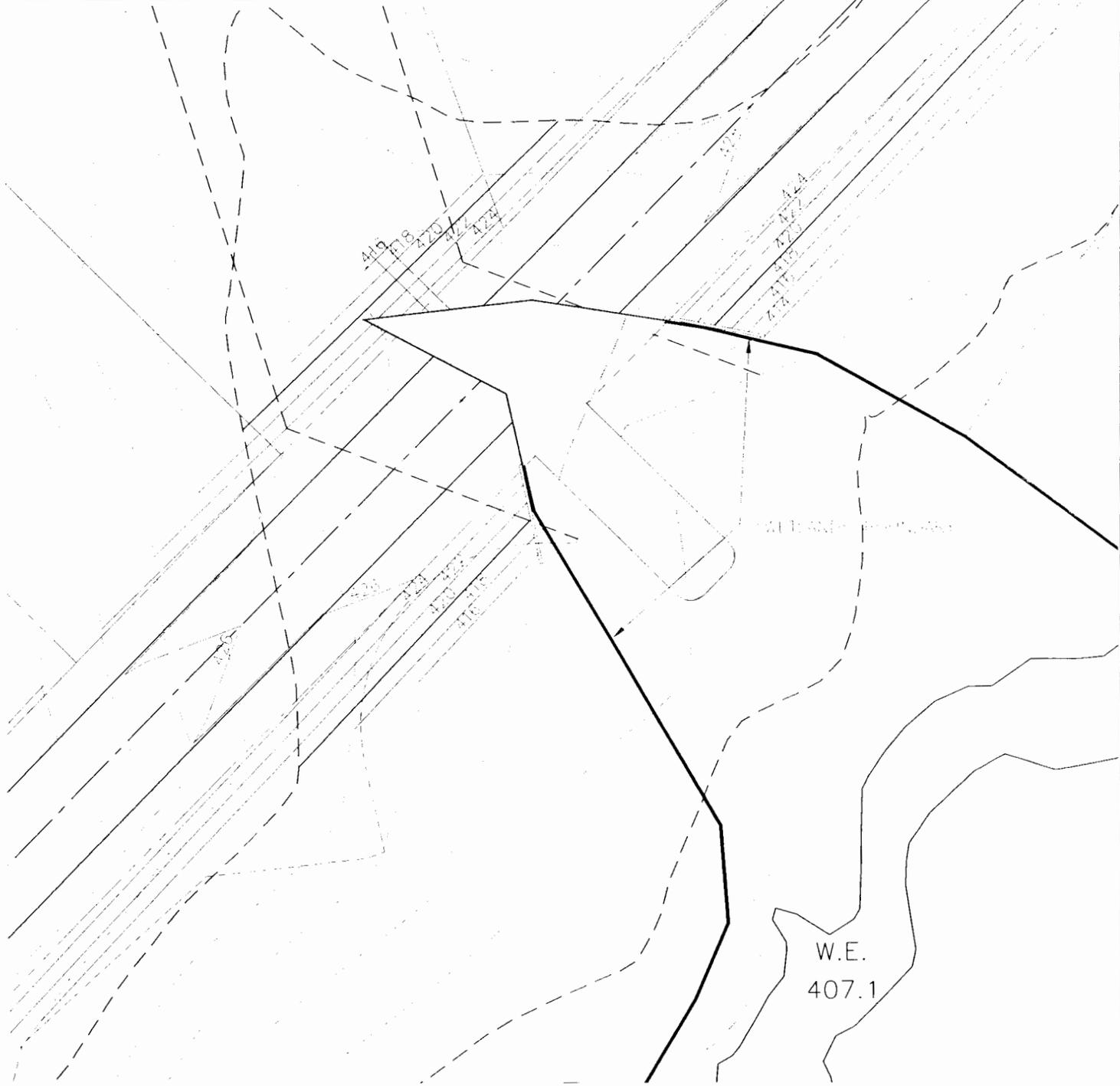
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	FILENAME NEW03000-G(0)
	SCALE: 1"=40'
	DATE: 12-06-04

BRIAR CHAPEL
CULVERT CROSSING SECTION-O
 CHATHAM COUNTY, NORTH CAROLINA

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 RESEARCH TRIANGLE PARK, NC
 P.O. BOX 14005 ZIP 27709-4005
 (919) 381-5000

CULVERT - IMPACT P
 AID # 200121252
 Newland Communities
 31 Hillsboro Street
 Pittsboro, NC 27312

Chatham County, NC
 June 14, 2005
 Sheet 20 of 34



GRAPHIC SCALE



1 inch = 40 ft.

WETLAND IMPACT 0.0624 AC
 70LF 54" RCP
 60LF RIP RAP APRON

W.E.
 407.1

McADAMS
 PROJECT NO. NEW-03000
 FILENAME: NEW03000-G3(P)
 SCALE: 1" = 40'
 DATE: 12-09-04

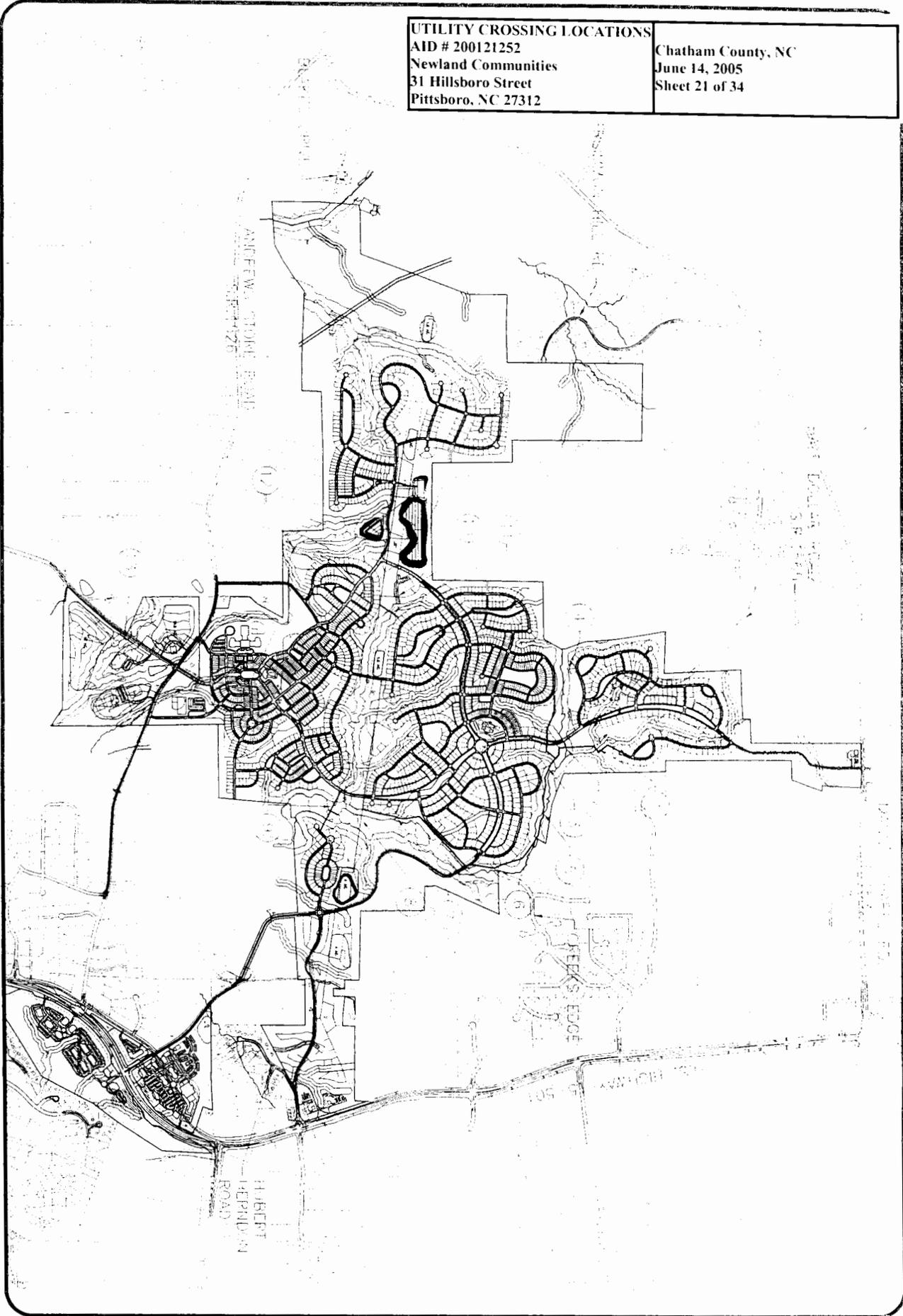
BRIAR CHAPEL
 CULVERT CROSSING SECTION - P
 CHATHAM COUNTY, NORTH CAROLINA

THE JOHN R. McADAMS COMPANY, INC.
 ENGINEERS/PLANNERS/SURVEYORS
 RESEARCH TRIANGLE PARK, NC
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 (919) 361-5000

UTILITY CROSSING LOCATIONS

AID # 200121252
Newland Communities
31 Hillsboro Street
Pittsboro, NC 27312

Chatham County, NC
June 14, 2005
Sheet 21 of 34



PROJECT NO.	NEW-03000
FILENAME	NEW03000-0211
SCALE	N.T.S.
DATE	5-12-2005

BRIAR CHAPEL
UTILITY CROSSING SECTION-SITE MAP
CHATHAM COUNTY, NORTH CAROLINA

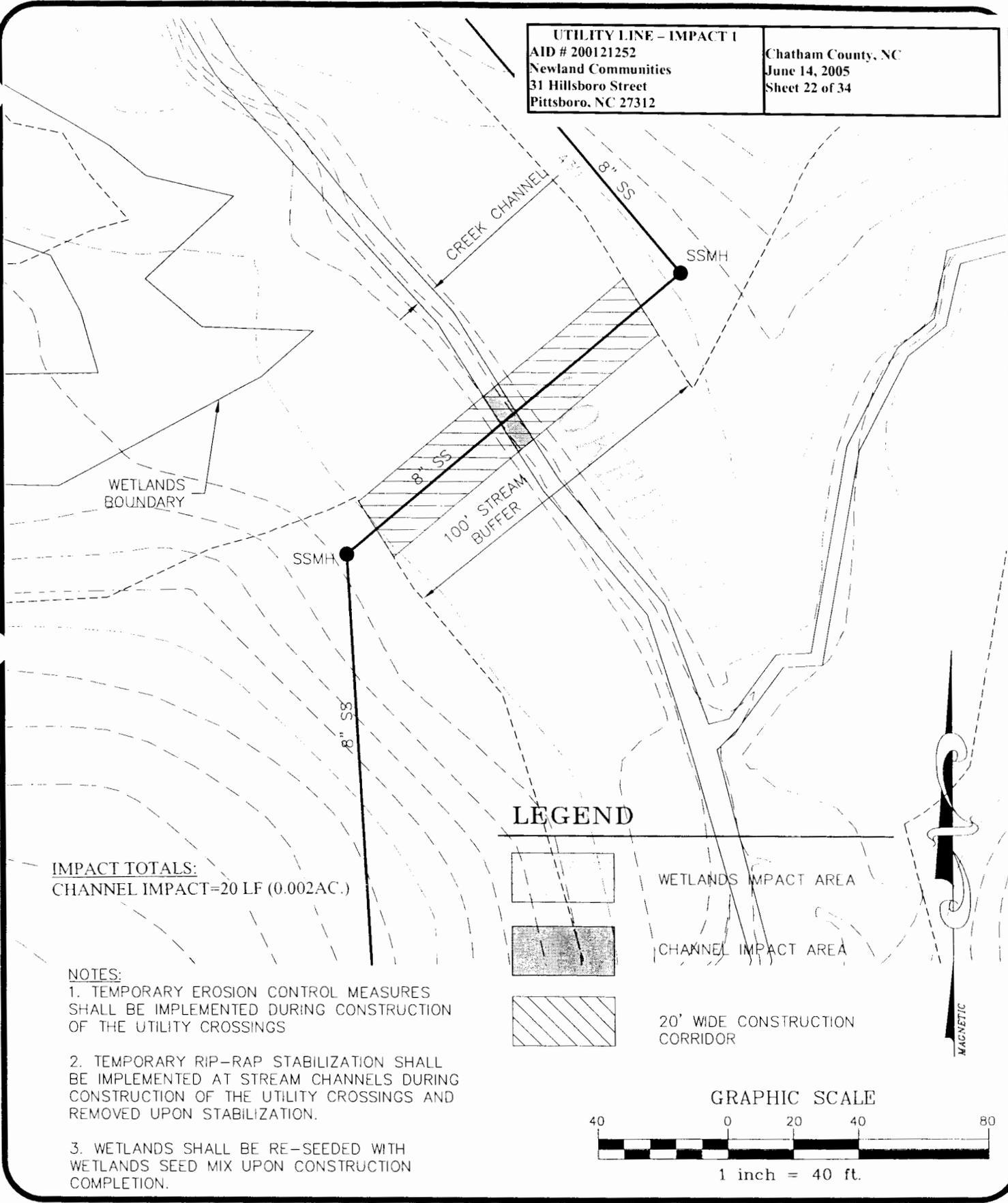
THE JOHN R. McADAMS COMPANY, INC.
ENGINEERS, PLANNERS, SURVEYORS
RESEARCH TRIANGLE PARK, N.C.
P.O. BOX 14025, ZIP 27709-0405
TEL: 919-576-5000

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UTILITY LINE - IMPACT 1 AID # 200121252 Newland Communities 31 Hillsboro Street Pittsboro, NC 27312	Chatham County, NC June 14, 2005 Sheet 22 of 34
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IMPACT TOTALS:
 CHANNEL IMPACT=20 LF (0.002AC.)

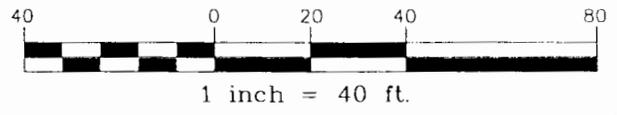
- NOTES:**
1. TEMPORARY EROSION CONTROL MEASURES SHALL BE IMPLEMENTED DURING CONSTRUCTION OF THE UTILITY CROSSINGS
 2. TEMPORARY RIP-RAP STABILIZATION SHALL BE IMPLEMENTED AT STREAM CHANNELS DURING CONSTRUCTION OF THE UTILITY CROSSINGS AND REMOVED UPON STABILIZATION.
 3. WETLANDS SHALL BE RE-SEEDED WITH WETLANDS SEED MIX UPON CONSTRUCTION COMPLETION.

LEGEND

-  WETLANDS IMPACT AREA
-  CHANNEL IMPACT AREA
-  20' WIDE CONSTRUCTION CORRIDOR



GRAPHIC SCALE



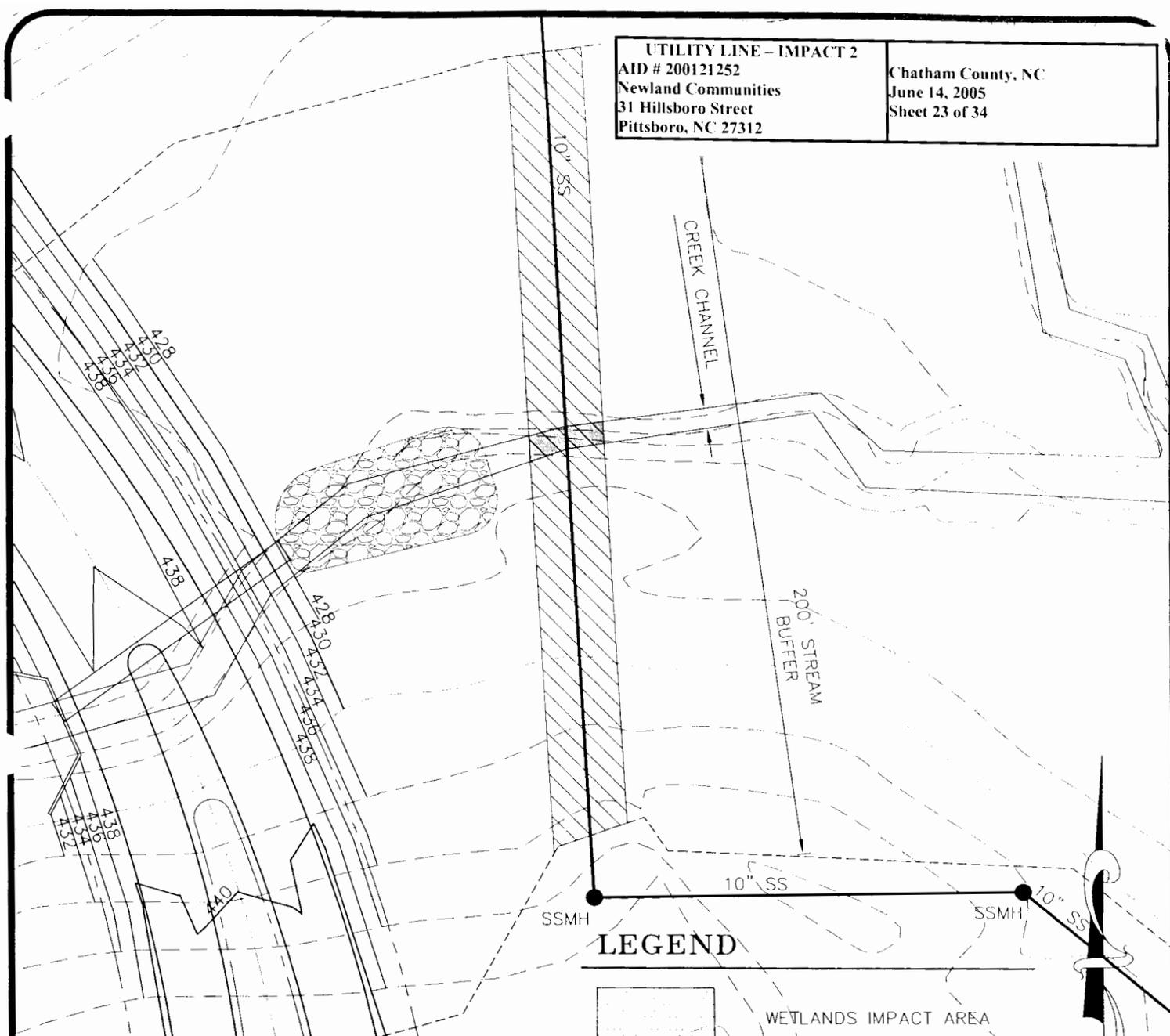
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	SCALE: 1"=40'
	DATE: 5-12-2005

BRIAR CHAPEL
UTILITY CROSSING SECTION-1
 CHATHAM COUNTY, NORTH CAROLINA

 **THE JOHN R. McADAMS COMPANY, INC.**
 ENGINEERS/PLANNERS/SURVEYORS
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 (919) 381-5000

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UTILITY LINE - IMPACT 2 AID # 200121252 Newland Communities 31 Hillsboro Street Pittsboro, NC 27312	Chatham County, NC June 14, 2005 Sheet 23 of 34
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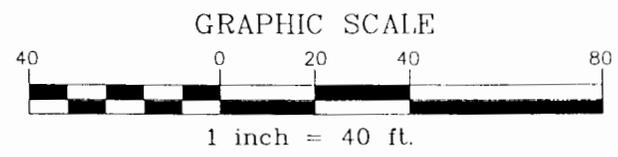


IMPACT TOTALS:
 CHANNEL IMPACT=20 LF (0.002AC.)

- NOTES:**
1. TEMPORARY EROSION CONTROL MEASURES SHALL BE IMPLEMENTED DURING CONSTRUCTION OF THE UTILITY CROSSINGS
 2. TEMPORARY RIP-RAP STABILIZATION SHALL BE IMPLEMENTED AT STREAM CHANNELS DURING CONSTRUCTION OF THE UTILITY CROSSINGS AND REMOVED UPON STABILIZATION.
 3. WETLANDS SHALL BE RE-SEEDED WITH WETLANDS SEED MIX UPON CONSTRUCTION COMPLETION.

LEGEND

-  WETLANDS IMPACT AREA
-  CHANNEL IMPACT AREA
-  20' WIDE CONSTRUCTION CORRIDOR



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PROJECT NO.	NEW-03000
FILENAME	NEW03000-G2(2)
SCALE:	1"=40'
DATE:	5-12-2005

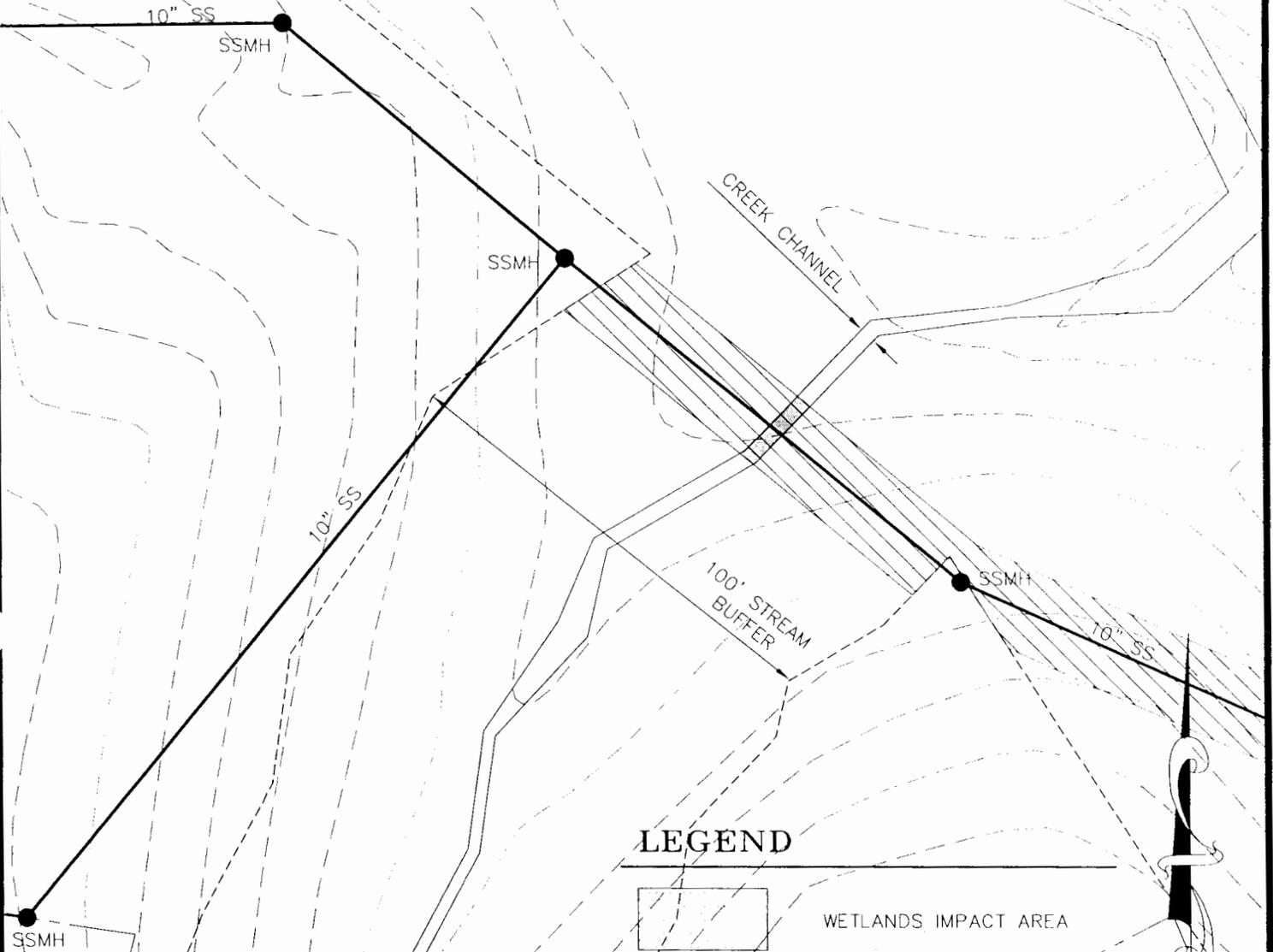
BRIAR CHAPEL
UTILITY CROSSING SECTION-2
 CHATHAM COUNTY, NORTH CAROLINA

THE JOHN R. McADAMS COMPANY, INC.
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 RESEARCH TRIANGLE PARK, NC
 P.O. BOX 14005 ZIP 27709-4005
 (919) 361-5000

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UTILITY LINE - IMPACT 3
AID # 200121252
Newland Communities
31 Hillsboro Street
Pittsboro, NC 27312

Chatham County, NC
June 14, 2005
Sheet 24 of 34



IMPACT TOTALS:
CHANNEL IMPACT=20 LF (0.002AC.)

NOTES:

1. TEMPORARY EROSION CONTROL MEASURES SHALL BE IMPLEMENTED DURING CONSTRUCTION OF THE UTILITY CROSSINGS
2. TEMPORARY RIP-RAP STABILIZATION SHALL BE IMPLEMENTED AT STREAM CHANNELS DURING CONSTRUCTION OF THE UTILITY CROSSINGS AND REMOVED UPON STABILIZATION.
3. WETLANDS SHALL BE RE-SEEDED WITH WETLANDS SEED MIX UPON CONSTRUCTION COMPLETION.

LEGEND

- WETLANDS IMPACT AREA
- CHANNEL IMPACT AREA
- 20' WIDE CONSTRUCTION CORRIDOR

GRAPHIC SCALE



1 inch = 40 ft.



PROJECT NO.	NEW-03000
FILENAME	NEW03000-G2(3)
SCALE	1"=40'
DATE	5-12-2005

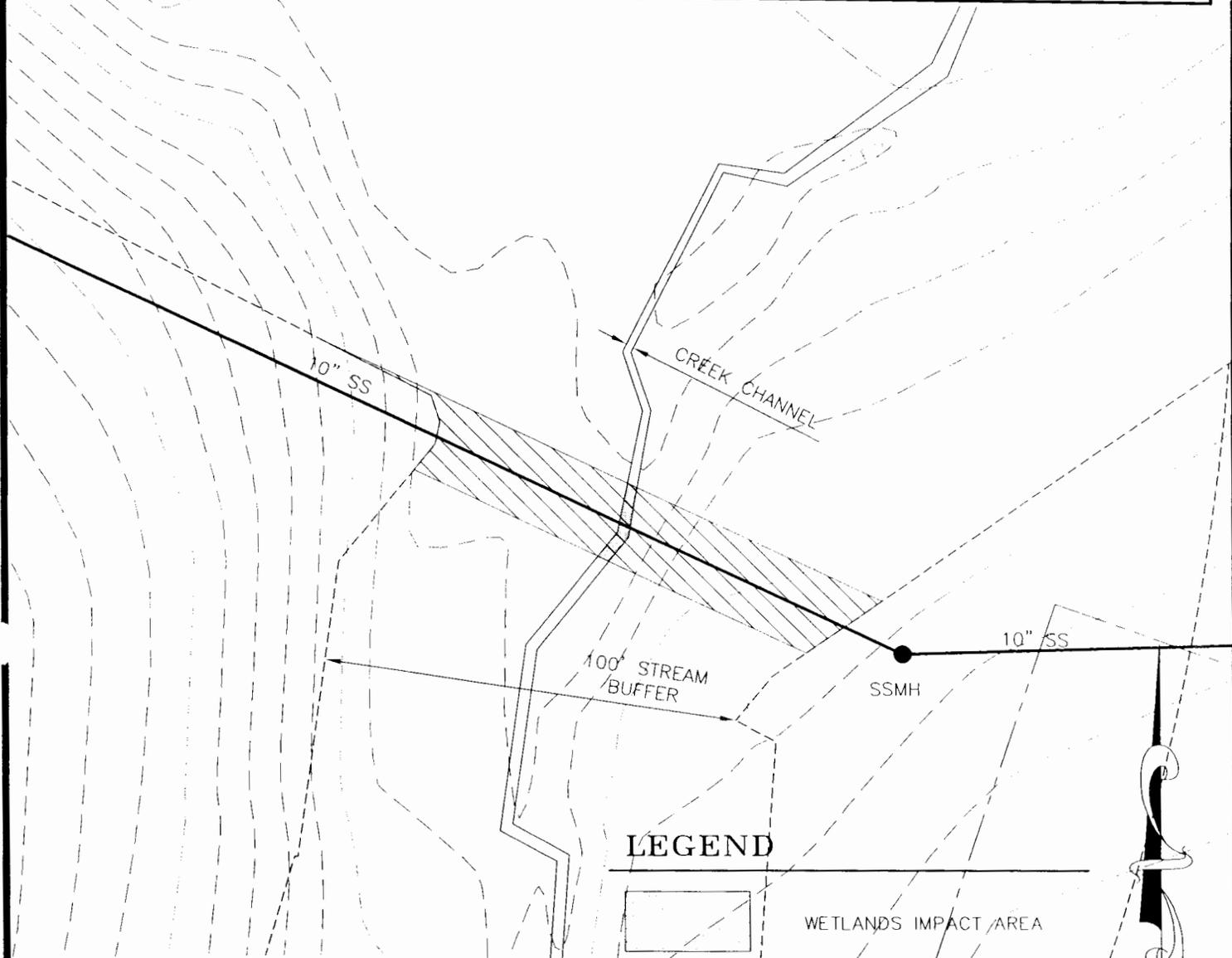
BRIAR CHAPEL
UTILITY CROSSING SECTION-3
CHATHAM COUNTY, NORTH CAROLINA

THE JOHN R. McADAMS COMPANY, INC.
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RESEARCH TRIANGLE PARK, NC
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(919) 361-5000

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UTILITY LINE - IMPACT 4
AID # 200121252
Newland Communities
31 Hillsboro Street
Pittsboro, NC 27312

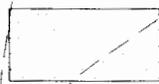
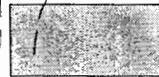
Chatham County, NC
June 14, 2005
Sheet 25 of 34



IMPACT TOTALS:
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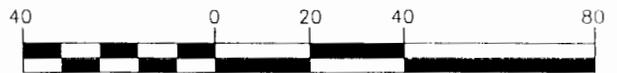
- NOTES:**
1. TEMPORARY EROSION CONTROL MEASURES SHALL BE IMPLEMENTED DURING CONSTRUCTION OF THE UTILITY CROSSINGS
 2. TEMPORARY RIP-RAP STABILIZATION SHALL BE IMPLEMENTED AT STREAM CHANNELS DURING CONSTRUCTION OF THE UTILITY CROSSINGS AND REMOVED UPON STABILIZATION.
 3. WETLANDS SHALL BE RE-SEEDED WITH WETLANDS SEED MIX UPON CONSTRUCTION COMPLETION.

LEGEND

-  WETLANDS IMPACT AREA
-  CHANNEL IMPACT AREA
-  20' WIDE CONSTRUCTION CORRIDOR



GRAPHIC SCALE



1 inch = 40 ft.

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	SCALE: 1"=40'
	DATE: 5-12-2005

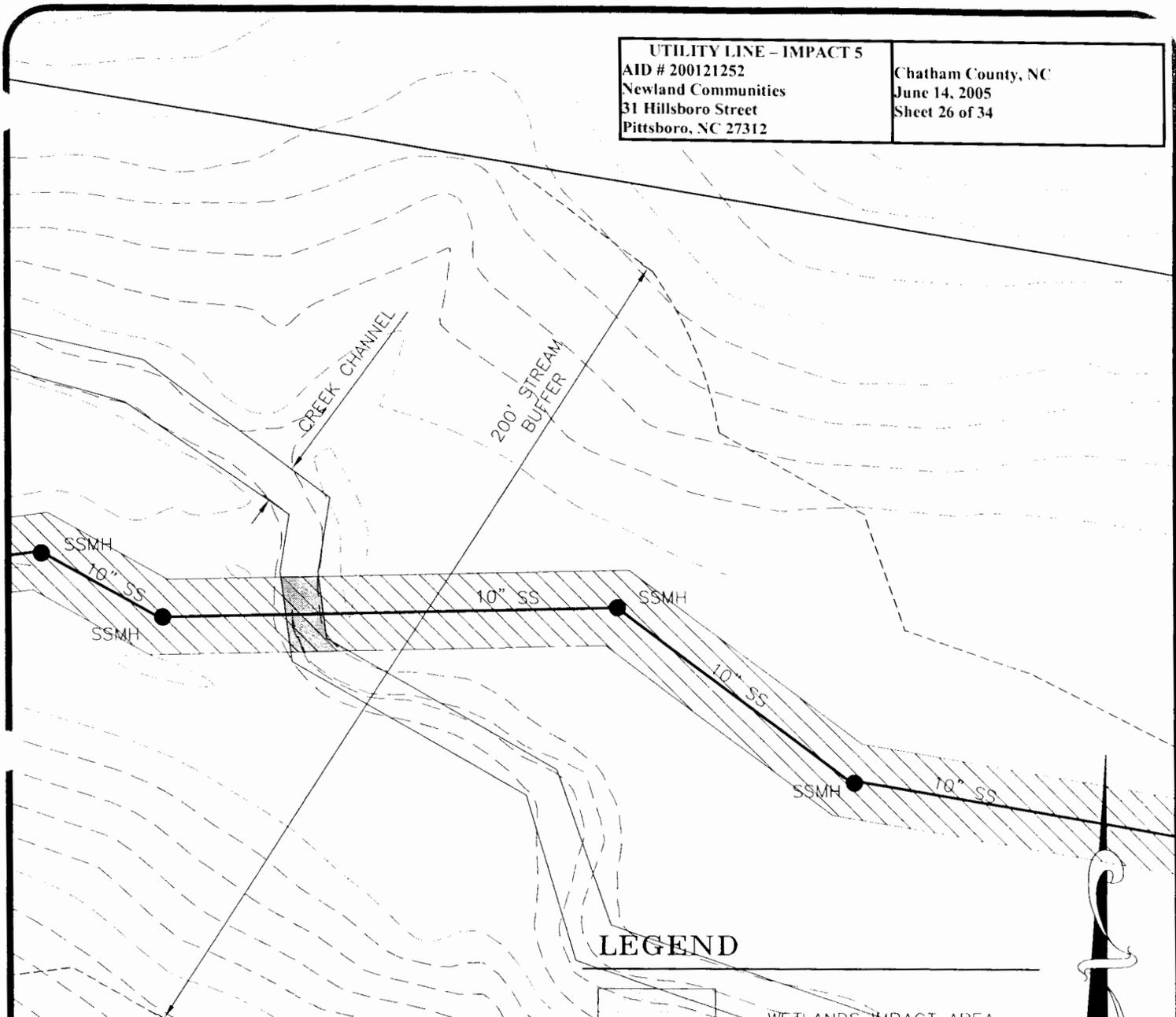
BRIAR CHAPEL
UTILITY CROSSING SECTION-4
CHATHAM COUNTY, NORTH CAROLINA

 **THE JOHN R. McADAMS COMPANY, INC.**
ENGINEERS/PLANNERS/SURVEYORS
RESEARCH TRIANGLE PARK, NC
P.O. BOX 14005 ZIP 27709-4005
(919) 361-5000

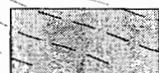
UTILITY LINE - IMPACT 5

AID # 200121252
 Newland Communities
 31 Hillsboro Street
 Pittsboro, NC 27312

Chatham County, NC
 June 14, 2005
 Sheet 26 of 34



LEGEND

-  WETLANDS IMPACT AREA
-  CHANNEL IMPACT AREA
-  20' WIDE CONSTRUCTION CORRIDOR

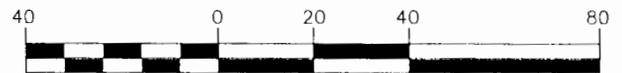
IMPACT TOTALS:

CHANNEL IMPACT=20 LF (0.005AC.)

NOTES:

1. TEMPORARY EROSION CONTROL MEASURES SHALL BE IMPLEMENTED DURING CONSTRUCTION OF THE UTILITY CROSSINGS
2. TEMPORARY RIP-RAP STABILIZATION SHALL BE IMPLEMENTED AT STREAM CHANNELS DURING CONSTRUCTION OF THE UTILITY CROSSINGS AND REMOVED UPON STABILIZATION.
3. WETLANDS SHALL BE RE-SEEDED WITH WETLANDS SEED MIX UPON CONSTRUCTION COMPLETION.

GRAPHIC SCALE



1 inch = 40 ft.



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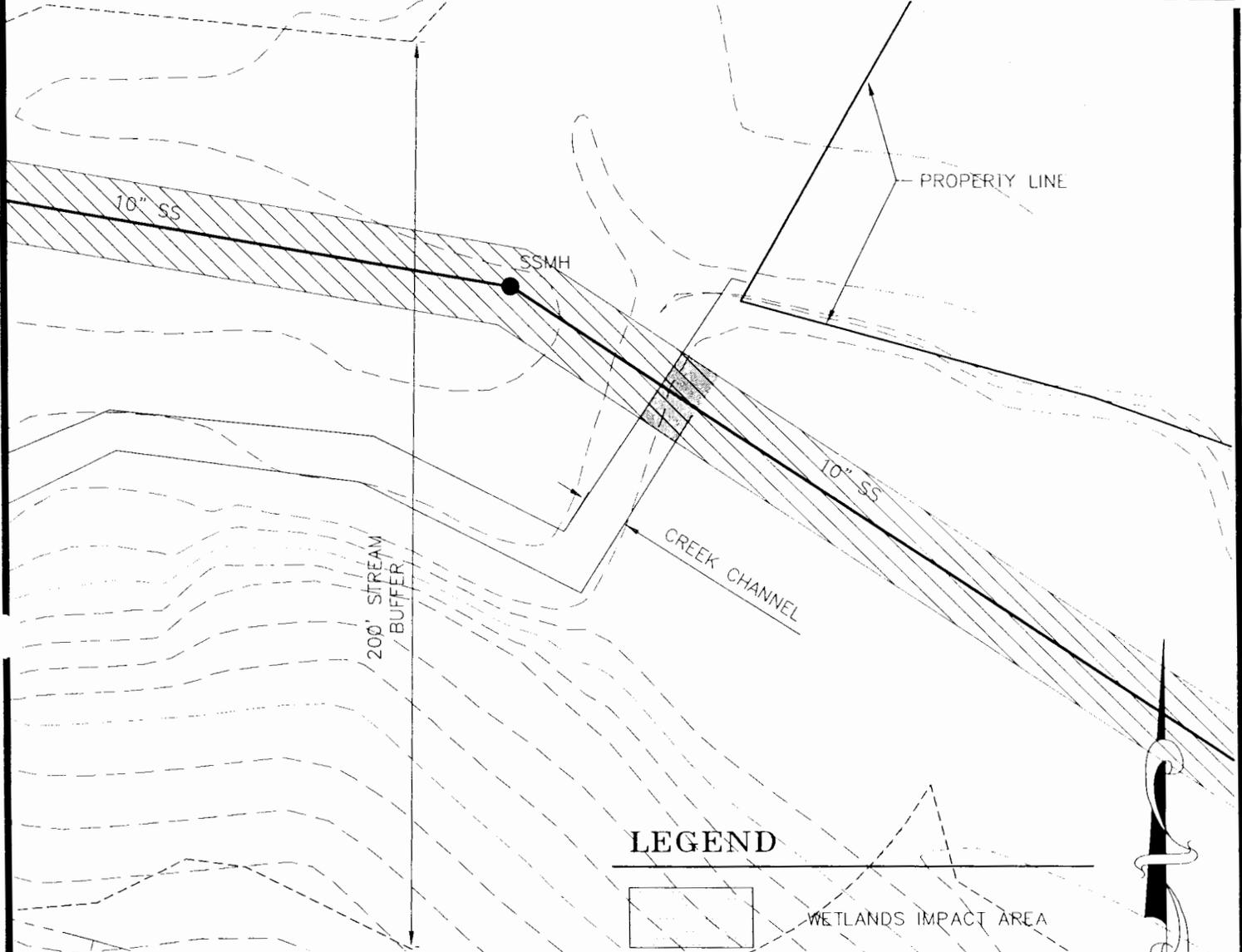
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	SCALE: 1"=40'
	DATE: 5-12-2005

BRIAR CHAPEL
UTILITY CROSSING SECTION-5
 CHATHAM COUNTY, NORTH CAROLINA

 **THE JOHN R. McADAMS COMPANY, INC.**
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 (919) 361-5000

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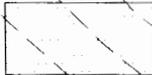
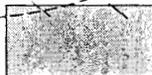
UTILITY LINE - IMPACT 6 AID # 200121252 Newland Communities 31 Hillsboro Street Pittsboro, NC 27312	Chatham County, NC June 14, 2005 Sheet 27 of 34
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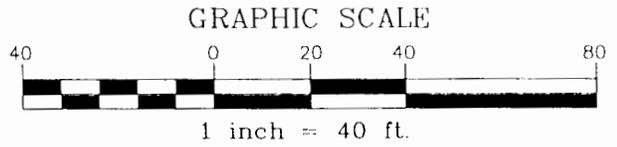


IMPACT TOTALS:
 CHANNEL IMPACT=20 LF (0.005 AC.)

- NOTES:**
1. TEMPORARY EROSION CONTROL MEASURES SHALL BE IMPLEMENTED DURING CONSTRUCTION OF THE UTILITY CROSSINGS
 2. TEMPORARY RIP-RAP STABILIZATION SHALL BE IMPLEMENTED AT STREAM CHANNELS DURING CONSTRUCTION OF THE UTILITY CROSSINGS AND REMOVED UPON STABILIZATION.
 3. WETLANDS SHALL BE RE-SEEDED WITH WETLANDS SEED MIX UPON CONSTRUCTION COMPLETION.

LEGEND

-  WETLANDS IMPACT AREA
-  CHANNEL IMPACT AREA
-  20' WIDE CONSTRUCTION CORRIDOR



	PROJECT NO. NEW-03000
	FILENAME: NEW03000-G2(6)
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	DATE: 5-12-2005

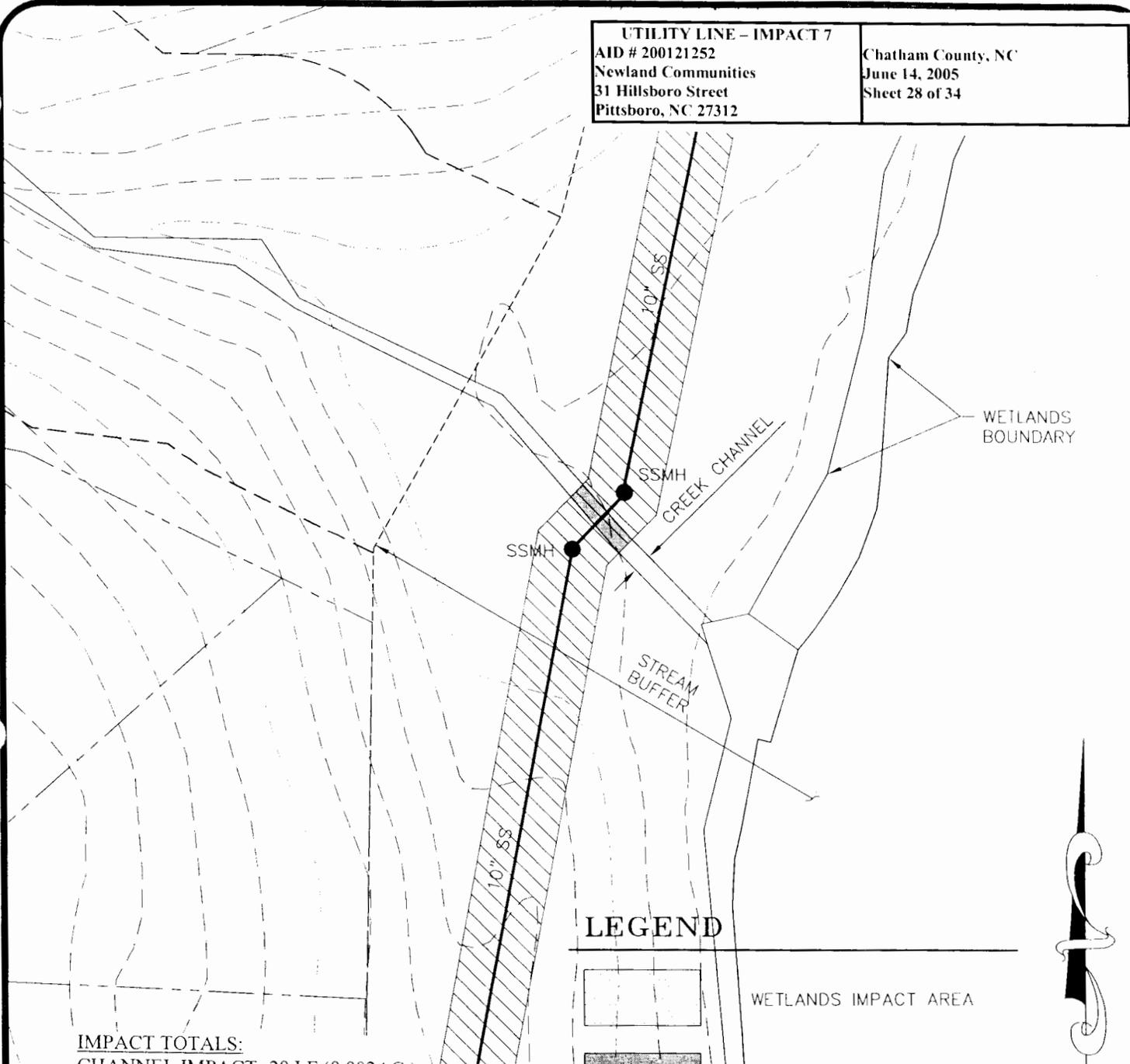
BRIAR CHAPEL
UTILITY CROSSING SECTION-6
 CHATHAM COUNTY, NORTH CAROLINA

 **THE JOHN R. McADAMS COMPANY, INC.**
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 RESEARCH TRIANGLE PARK, NC
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UTILITY LINE - IMPACT 7

AID # 200121252
Newland Communities
31 Hillsboro Street
Pittsboro, NC 27312

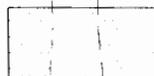
Chatham County, NC
June 14, 2005
Sheet 28 of 34



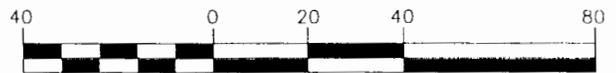
IMPACT TOTALS:
CHANNEL IMPACT=20 LF (0.002AC.)

- NOTES:**
1. TEMPORARY EROSION CONTROL MEASURES SHALL BE IMPLEMENTED DURING CONSTRUCTION OF THE UTILITY CROSSINGS
 2. TEMPORARY RIP-RAP STABILIZATION SHALL BE IMPLEMENTED AT STREAM CHANNELS DURING CONSTRUCTION OF THE UTILITY CROSSINGS AND REMOVED UPON STABILIZATION.
 3. WETLANDS SHALL BE RE-SEEDED WITH WETLANDS SEED MIX UPON CONSTRUCTION COMPLETION.

LEGEND

-  WETLANDS IMPACT AREA
-  CHANNEL IMPACT AREA
-  20' WIDE CONSTRUCTION CORRIDOR

GRAPHIC SCALE



1 inch = 40 ft.



PROJECT NO.	NEW-03000
FILENAME:	NEW03000-G2(7)
SCALE:	1"=40'
DATE:	5-12-2005

BRIAR CHAPEL
UTILITY CROSSING SECTION-7
CHATHAM COUNTY, NORTH CAROLINA

THE JOHN R. McADAMS COMPANY, INC.
ENGINEERS/PLANNERS/SURVEYORS
RESEARCH TRIANGLE PARK, NC
P.O. BOX 14005 ZIP 27709-4005
(919) 361-5000

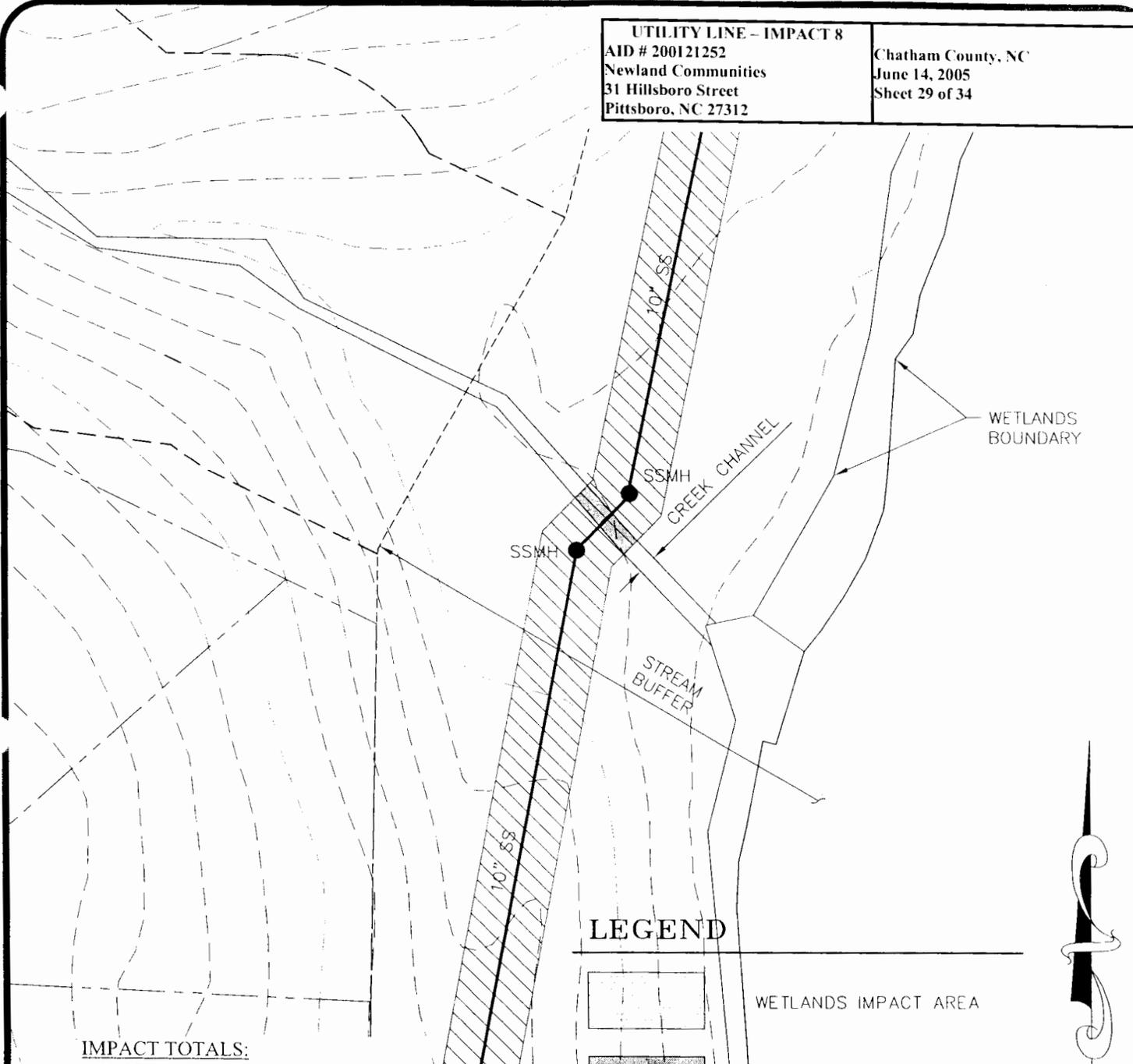
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Projects\NEWNEW

UTILITY LINE - IMPACT 8
 AID # 200121252
 Newland Communities
 31 Hillsboro Street
 Pittsboro, NC 27312

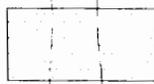
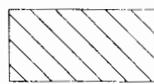
Chatham County, NC
 June 14, 2005
 Sheet 29 of 34



IMPACT TOTALS:
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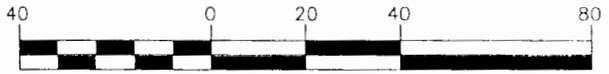
- NOTES:**
1. TEMPORARY EROSION CONTROL MEASURES SHALL BE IMPLEMENTED DURING CONSTRUCTION OF THE UTILITY CROSSINGS
 2. TEMPORARY RIP-RAP STABILIZATION SHALL BE IMPLEMENTED AT STREAM CHANNELS DURING CONSTRUCTION OF THE UTILITY CROSSINGS AND REMOVED UPON STABILIZATION.
 3. WETLANDS SHALL BE RE-SEEDED WITH WETLANDS SEED MIX UPON CONSTRUCTION COMPLETION.

LEGEND

-  WETLANDS IMPACT AREA
-  CHANNEL IMPACT AREA
-  20' WIDE CONSTRUCTION CORRIDOR



GRAPHIC SCALE



1 inch = 40 ft.

	PROJECT NO. NEW-03000
	FILENAME: NEW03000-C2(8)
	SCALE: 1"=40'
	DATE: 5-12-2005

BRIAR CHAPEL
UTILITY CROSSING SECTION-8
 CHATHAM COUNTY, NORTH CAROLINA

 **THE JOHN R. McADAMS COMPANY, INC.**
 ENGINEERS/PLANNERS/SURVEYORS
 RESEARCH TRIANGLE PARK, NC
 P.O. BOX 14005 ZIP 27709-4005
 (919) 361-5000

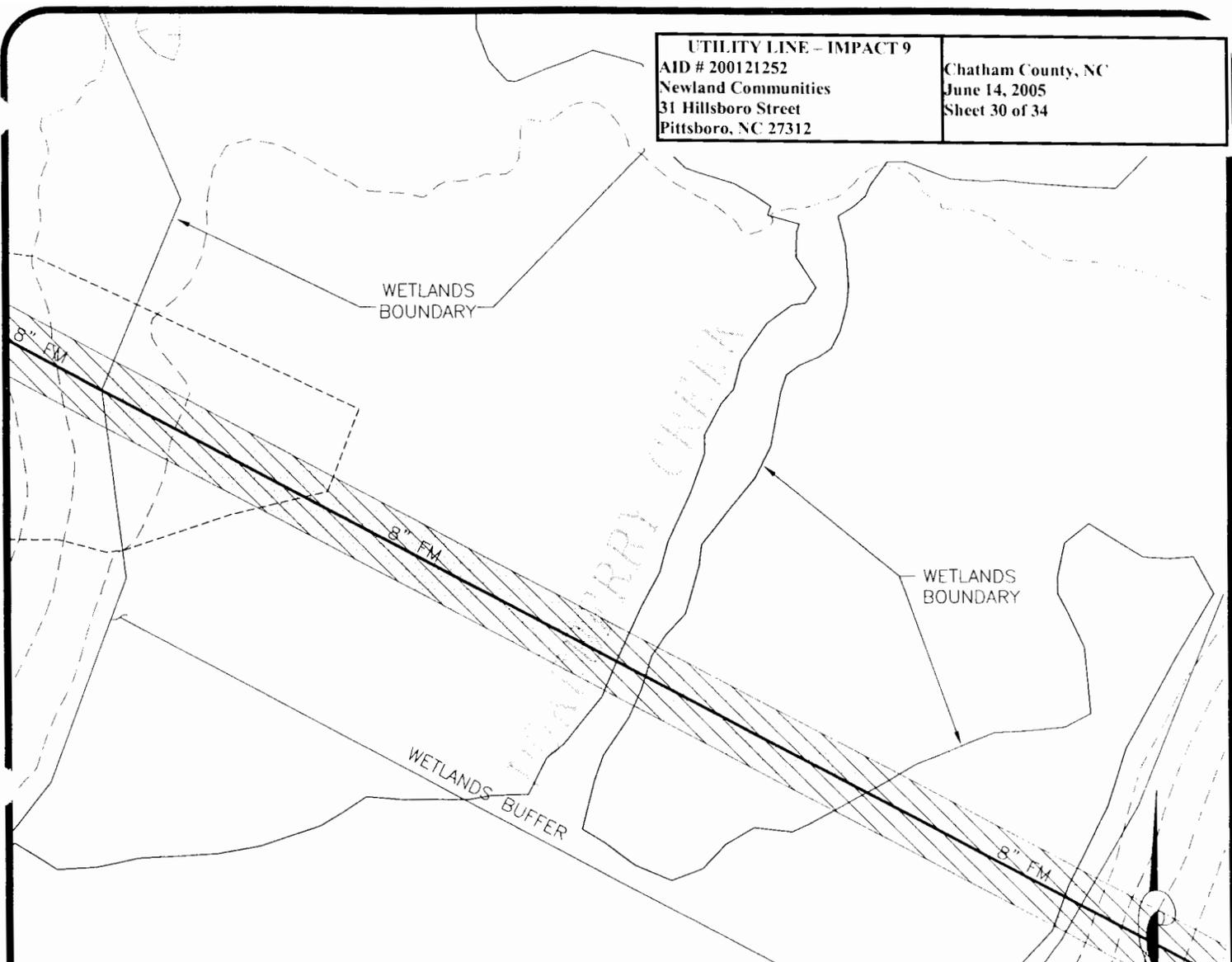
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:\Projects\NEW\NEW

UTILITY LINE - IMPACT 9
 AID # 200121252
 Newland Communities
 31 Hillsboro Street
 Pittsboro, NC 27312

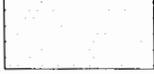
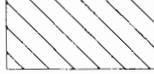
Chatham County, NC
 June 14, 2005
 Sheet 30 of 34

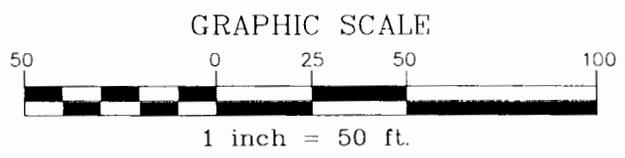


IMPACT TOTALS:
 CHANNEL IMPACT=20 LF (0.005 AC.)
 WETLAND IMPACT=0.123 AC.

- NOTES:**
1. TEMPORARY EROSION CONTROL MEASURES SHALL BE IMPLEMENTED DURING CONSTRUCTION OF THE UTILITY CROSSINGS
 2. TEMPORARY RIP-RAP STABILIZATION SHALL BE IMPLEMENTED AT STREAM CHANNELS DURING CONSTRUCTION OF THE UTILITY CROSSINGS AND REMOVED UPON STABILIZATION.
 3. WETLANDS SHALL BE RE-SEEDED WITH WETLANDS SEED MIX UPON CONSTRUCTION COMPLETION.

LEGEND

-  WETLANDS IMPACT AREA
-  CHANNEL IMPACT AREA
-  20' WIDE CONSTRUCTION CORRIDOR



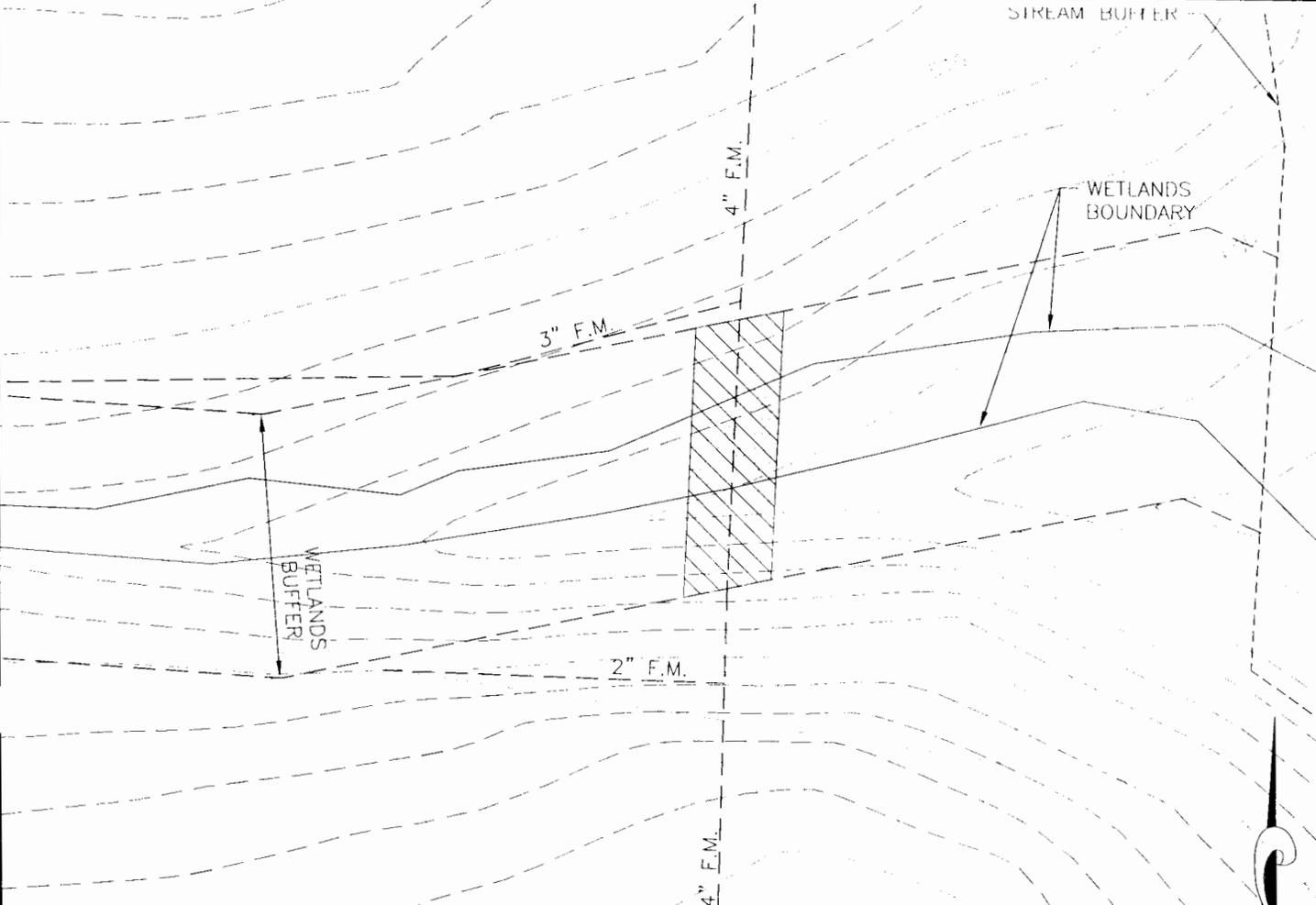
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	SCALE: 1"=50'
	DATE: 5-12-2005

BRIAR CHAPEL
UTILITY CROSSING SECTION-9
 CHATHAM COUNTY, NORTH CAROLINA

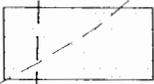
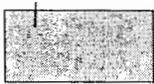
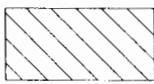
 **THE JOHN R. McADAMS COMPANY, INC.**
 ENGINEERS/PLANNERS/SURVEYORS
 RESEARCH TRIANGLE PARK, NC
 P.O. BOX 14005 ZIP 27709-4005
 (919) 361-5000

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UTILITY LINE - IMPACT 10 AID # 200121252 Newland Communities 31 Hillsboro Street Pittsboro, NC 27312	Chatham County, NC June 14, 2005 Sheet 31 of 34
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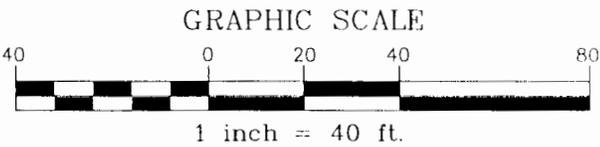


LEGEND

-  WETLANDS IMPACT AREA
-  CHANNEL IMPACT AREA
-  20' WIDE CONSTRUCTION CORRIDOR

IMPACT TOTALS:
 WETLAND IMPACT=0.01 AC.

- NOTES:**
1. TEMPORARY EROSION CONTROL MEASURES SHALL BE IMPLEMENTED DURING CONSTRUCTION OF THE UTILITY CROSSINGS
 2. TEMPORARY RIP-RAP STABILIZATION SHALL BE IMPLEMENTED AT STREAM CHANNELS DURING CONSTRUCTION OF THE UTILITY CROSSINGS AND REMOVED UPON STABILIZATION.
 3. WETLANDS SHALL BE RE-SEEDED WITH WETLANDS SEED MIX UPON CONSTRUCTION COMPLETION.



McADAMS	PROJECT NO. NEW-03000
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	SCALE: 1"=40'
	DATE: 5-12-2005

BRIAR CHAPEL

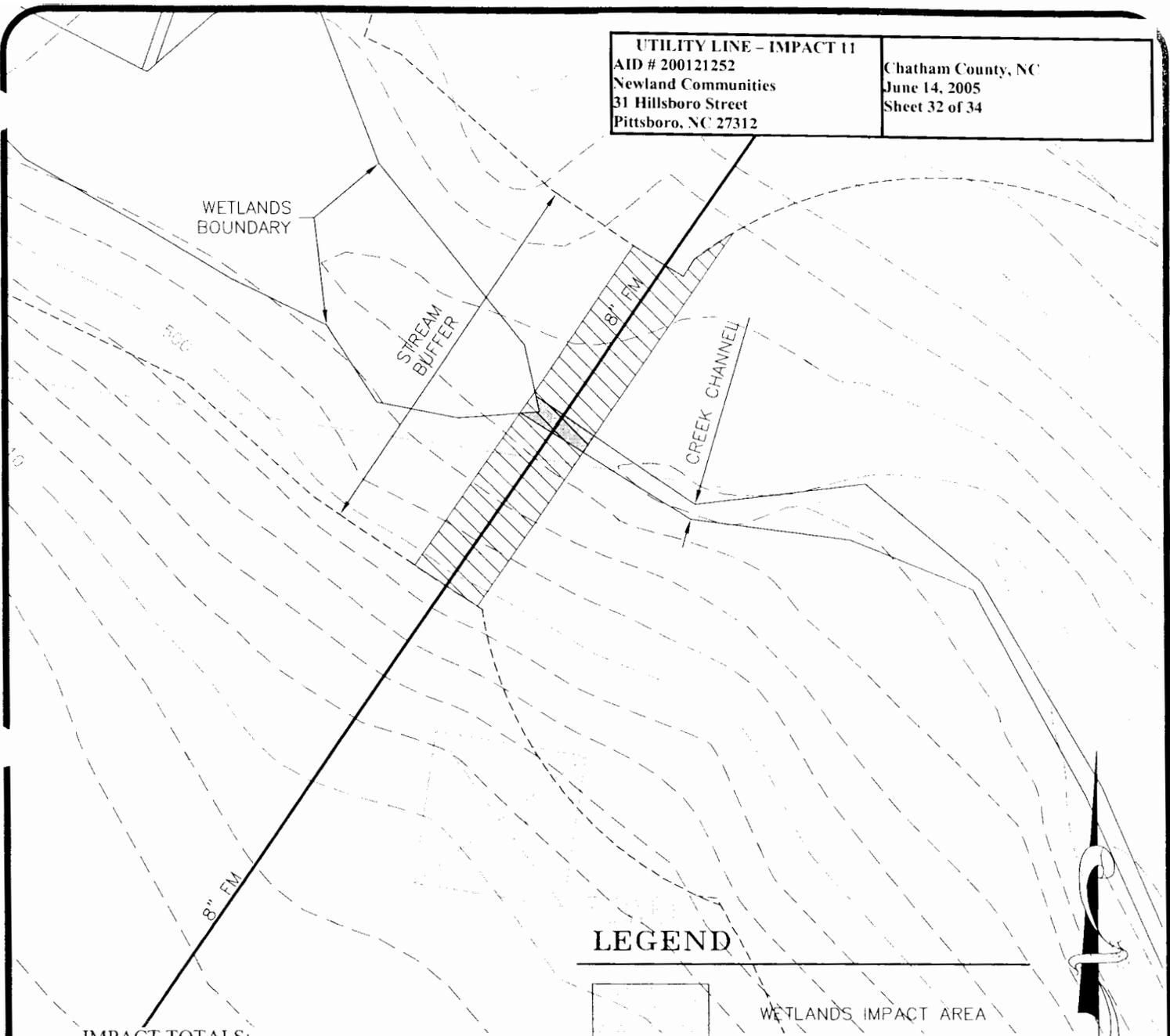
UTILITY CROSSING SECTION-10

CHATHAM COUNTY, NORTH CAROLINA

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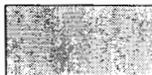
UTILITY LINE - IMPACT 11 AID # 200121252 Newland Communities 31 Hillsboro Street Pittsboro, NC 27312	Chatham County, NC June 14, 2005 Sheet 32 of 34
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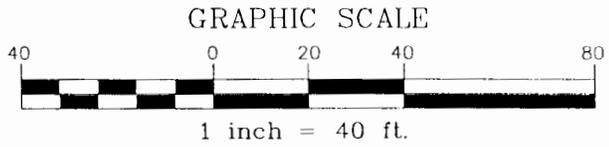


IMPACT TOTALS:
 CHANNEL IMPACT=19 LF (0.002 AC.)
 WETLAND IMPACT=0.0003 AC.

- NOTES:**
1. TEMPORARY EROSION CONTROL MEASURES SHALL BE IMPLEMENTED DURING CONSTRUCTION OF THE UTILITY CROSSINGS
 2. TEMPORARY RIP-RAP STABILIZATION SHALL BE IMPLEMENTED AT STREAM CHANNELS DURING CONSTRUCTION OF THE UTILITY CROSSINGS AND REMOVED UPON STABILIZATION.
 3. WETLANDS SHALL BE RE-SEEDED WITH WETLANDS SEED MIX UPON CONSTRUCTION COMPLETION.

LEGEND

-  WETLANDS IMPACT AREA
-  CHANNEL IMPACT AREA
-  20' WIDE CONSTRUCTION CORRIDOR

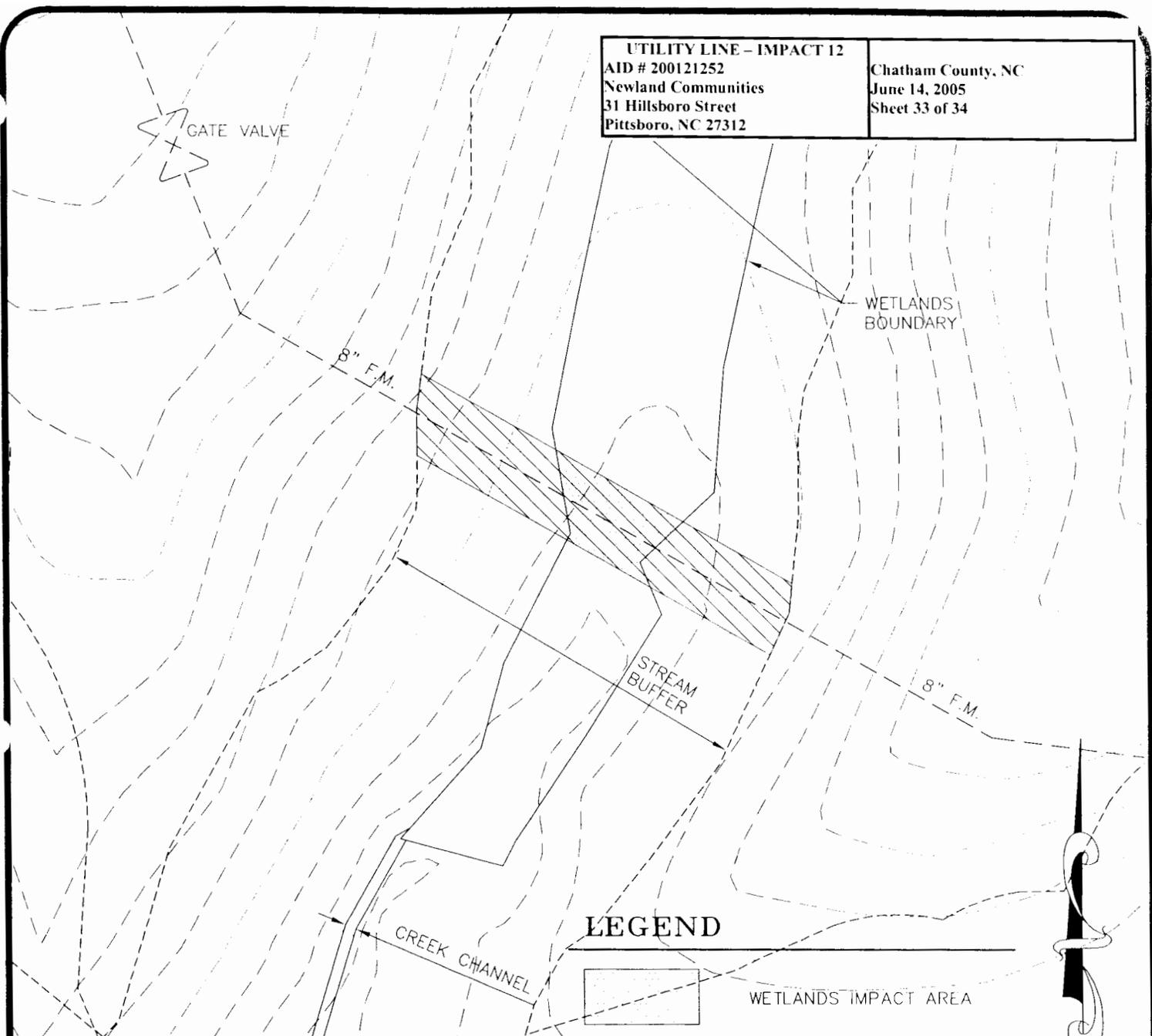


	PROJECT NO. NEW-03000
	FILENAME: NEW03000-G2(11)
	SCALE: 1"=40'
	DATE: 5-12-2005

BRIAR CHAPEL
UTILITY CROSSING SECTION-11
 CHATHAM COUNTY, NORTH CAROLINA

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UTILITY LINE - IMPACT 12 AID # 200121252 Newland Communities 31 Hillsboro Street Pittsboro, NC 27312	Chatham County, NC June 14, 2005 Sheet 33 of 34
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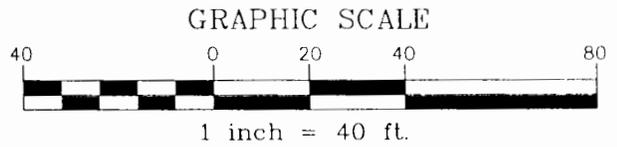


IMPACT TOTALS:
 WETLAND IMPACT=0.014 AC.

- NOTES:**
1. TEMPORARY EROSION CONTROL MEASURES SHALL BE IMPLEMENTED DURING CONSTRUCTION OF THE UTILITY CROSSINGS
 2. TEMPORARY RIP-RAP STABILIZATION SHALL BE IMPLEMENTED AT STREAM CHANNELS DURING CONSTRUCTION OF THE UTILITY CROSSINGS AND REMOVED UPON STABILIZATION.
 3. WETLANDS SHALL BE RE-SEEDED WITH WETLANDS SEED MIX UPON CONSTRUCTION COMPLETION.

LEGEND

-  WETLANDS IMPACT AREA
-  CHANNEL IMPACT AREA
-  20' WIDE CONSTRUCTION CORRIDOR



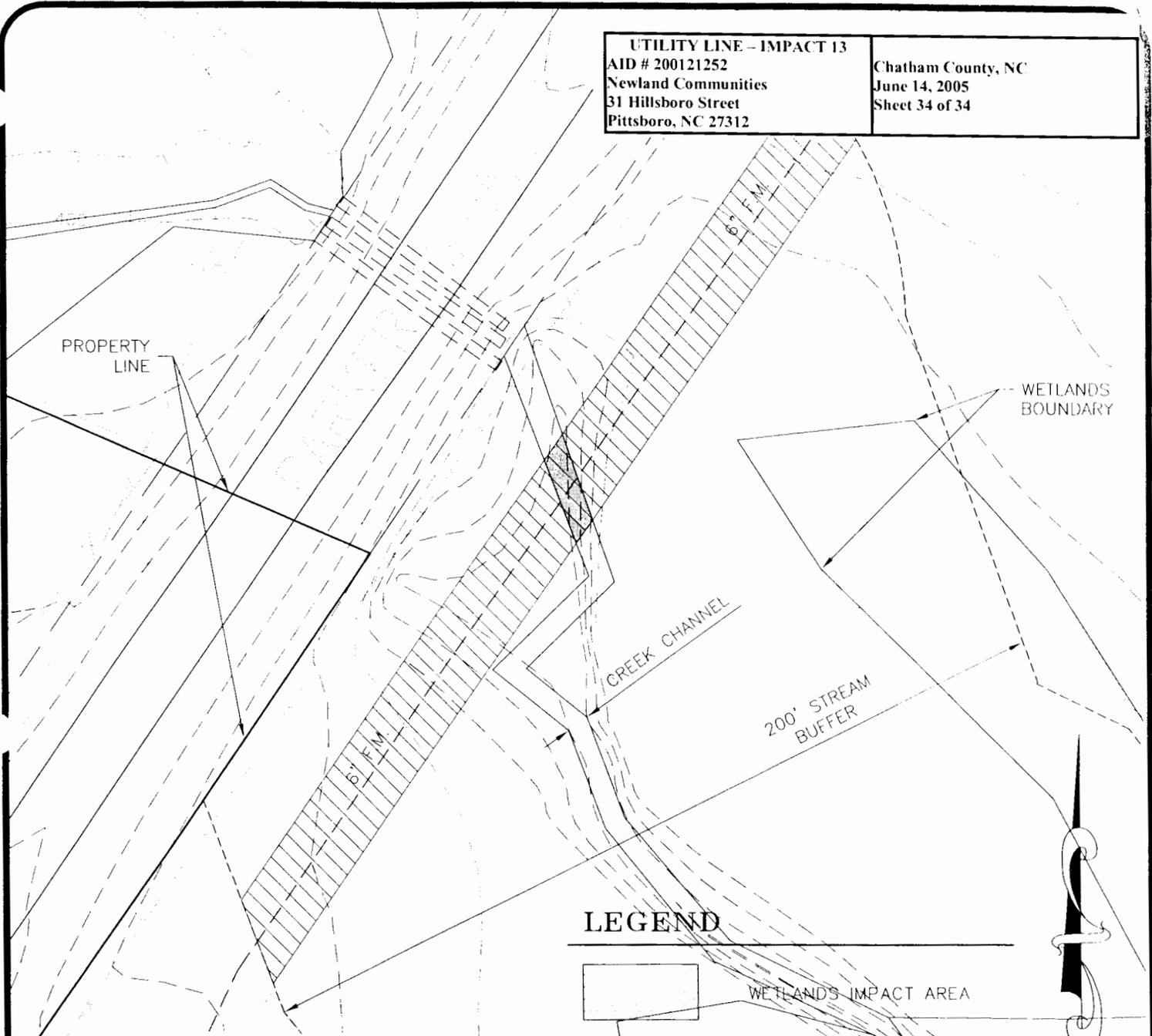
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	SCALE: 1"=40'
	DATE: 5-12-2005

BRIAR CHAPEL
UTILITY CROSSING SECTION-12
 CHATHAM COUNTY, NORTH CAROLINA

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UTILITY LINE - IMPACT 13 AID # 200121252 Newland Communities 31 Hillsboro Street Pittsboro, NC 27312	Chatham County, NC June 14, 2005 Sheet 34 of 34
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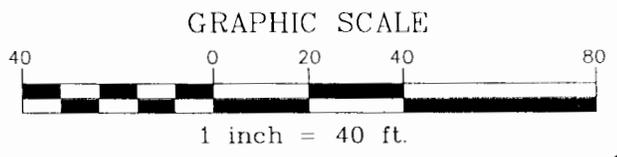


IMPACT TOTALS:
 CHANNEL IMPACT=24 LF (0.004 AC.)

- NOTES:**
1. TEMPORARY EROSION CONTROL MEASURES SHALL BE IMPLEMENTED DURING CONSTRUCTION OF THE UTILITY CROSSINGS
 2. TEMPORARY RIP-RAP STABILIZATION SHALL BE IMPLEMENTED AT STREAM CHANNELS DURING CONSTRUCTION OF THE UTILITY CROSSINGS AND REMOVED UPON STABILIZATION.
 3. WETLANDS SHALL BE RE-SEEDED WITH WETLANDS SEED MIX UPON CONSTRUCTION COMPLETION.

LEGEND

-  WETLANDS IMPACT AREA
-  CHANNEL IMPACT AREA
-  20' WIDE CONSTRUCTION CORRIDOR



	PROJECT NO. NEW-03000
	FILENAME: NEW03000-G2(13)
	SCALE: 1" = 40'
	DATE: 5-12-2005

BRIAR CHAPEL
UTILITY CROSSING SECTION-13
 CHATHAM COUNTY, NORTH CAROLINA

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