

**JOINT**  
**PUBLIC NOTICE**

**CHARLESTON DISTRICT, CORPS OF ENGINEERS**  
69A Hagood Avenue  
Charleston, South Carolina 29403-5107  
and

**THE S. C. DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL**  
Office of Environmental Quality Control  
Water Quality Certification and Wetlands Programs Section  
2600 Bull Street  
Columbia, South Carolina 29201

REGULATORY DIVISION

Refer to: P/N # 2007-1312-6J

July 13, 2007

Pursuant to Sections 401 and 404 of the Clean Water Act (33 U.S.C. 1341), and the S.C. Construction in Navigable Waters Permit Program (R. 19-450, et. seq., 1976 S.C. Code of Laws, as amended), an application has been submitted to the Department of the Army and the State of South Carolina by

**Cliffs Communities, Inc.**  
3589 Highway 11  
Travelers Rest, South Carolina 29690

for a permit to place fill material in

**several unnamed tributaries in the North Saluda River**

on tract of land located northwest of the intersection of Highway 11 and Highway 25, near the Town of Travellers Rest, Greenville County, South Carolina (Latitude 35.096280 Longitude -82.464479)

In order to give all interested parties an opportunity to express their views

**NOTICE**

is hereby given that written statements regarding the proposed work will be received by both of the above mentioned offices until

**12 O'CLOCK NOON, MONDAY, AUGUST 13, 2007**

from those interested in the activity and whose interests may be affected by the proposed work.

The proposed work consists piping and impounding 2,337 linear feet of several small tributaries of the North Saluda River to facilitate the construction of a golf course. In detail, the applicant proposes to pipe and fill 1,802 linear feet and impound 535 linear feet of tributary to the North Saluda River. As mitigation for any unavoidable impacts, the applicant proposes to restore 12,692 linear feet of the North Saluda River and 1,393 linear feet of unnamed tributaries to the North Saluda River.

**NOTE: Plans depicting the work described in this notice are available and will be provided, upon receipt of a written request, to anyone that is interested in obtaining a copy of the plans for the specific project. The request must identify the project of interest by public notice number and a self-addressed stamped envelope must also be provided for mailing the drawings to you. Your request for drawings should be addressed to the**

REGULATORY DIVISION  
Refer to: P/N # 2007-1312-6J

July 13, 2007

**U.S. Army Corps of Engineers  
ATTN: REGULATORY DIVISION  
69A Hagood Avenue  
Charleston, South Carolina 29403-5107**

The District Engineer has concluded that the discharges associated with this project, both direct and indirect, should be reviewed by the South Carolina Department of Health and Environmental Control in accordance with provisions of Section 401 of the Clean Water Act. As such, this notice constitutes a request, on behalf of the applicant, for certification that this project will comply with applicable effluent limitations and water quality standards (Section 401 of the Clean Water Act). The District Engineer will not process this application to a conclusion until such certification is received. This activity may also require evaluation for compliance with the S. C. Construction in Navigable Waters Permit Program. State review, permitting and certification is conducted by the S. C. Department of Health and Environmental Control. The applicant is hereby advised that supplemental information may be required by the State to facilitate the review. Persons wishing to comment or object to State certification or the navigable waters permit must submit all comments in writing to the S. C. Department of Health and Environmental Control at the above address within thirty (30) days of the date of this notice.

This notice initiates the Essential Fish Habitat (EFH) consultation requirements of the Magnuson-Stevens Fishery Conservation and Management Act. Implementation of the proposed project would impact 0.73 acres of estuarine substrates and emergent wetlands utilized by various life stages of species comprising the red drum, shrimp, and snapper-grouper management complexes. Our initial determination is that the proposed action would not have a substantial individual or cumulative adverse impact on EFH or fisheries managed by the South Atlantic Fishery Management Council and the National Marine Fisheries Service (NMFS). Our final determination relative to project impacts and the need for mitigation measures is subject to review by and coordination with the NMFS.

Pursuant to Section 7(c) of the Endangered Species Act of 1973 (as amended), the applicant has provided a protected species survey for the property associated with the activity described above. Based upon this report, the District Engineer has determined that the project is not likely to adversely affect any Federally endangered, threatened, or proposed species or result in the destruction or adverse modification of designated or proposed critical habitat. This public notice serves as a request for written concurrence from the U.S. Fish and Wildlife Service and/or the National Marine Fisheries Service on this determination.

Pursuant to Section 106 of the National Historic Preservation Act (NHPA), this public notice also constitutes a request to Indian Tribes to notify the District Engineer of any historic properties of religious and cultural significance to them that may be affected by the proposed undertaking.

In accordance with the NHPA, the District Engineer has also consulted the latest published version of the National Register of Historic Places for the presence or absence of registered properties, or properties listed as being eligible for inclusion therein, and this worksite is not included as a registered property or property listed as being eligible for inclusion in the Register. To insure that other cultural resources that the District Engineer is not aware of are not overlooked, this public notice also serves as a request to the State Historic Preservation Office to provide any information it may have with regard to historic and cultural resources.

Any person may request, in writing, within the comment period specified in this notice, that a public hearing be held to consider this application. Requests for a public hearing shall state, with particularity, the reasons for holding a public hearing.

**REGULATORY DIVISION**

**Refer to: P/N # 2007-1312-6J**

**July 13, 2007**

The decision whether to issue a permit will be based on an evaluation of the probable impact including cumulative impacts of the activity on the public interest and will include application of the guidelines promulgated by the Administrator, Environmental Protection Agency (EPA), under authority of Section 404(b) of the Clean Water Act and, as appropriate, the criteria established under authority of Section 102 of the Marine Protection, Research and Sanctuaries Act of 1972, as amended. 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 project must be balanced against its reasonably foreseeable detriments. All factors which may be relevant to the project 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, land use, navigation, shoreline erosion and accretion, recreation, water supply and conservation, water quality, energy needs, safety, food and fiber production and, in general, the needs and welfare of the people. A permit will be granted unless the District Engineer determines that it would be contrary to the public interest. In cases of conflicting property rights, the Corps of Engineers cannot undertake to adjudicate rival claims.

The Corps of Engineers is soliciting comments from the public; Federal, state, and local agencies and officials; Indian Tribes; and other interested parties in order to consider and evaluate the impacts of this activity. Any comments received will be considered by the Corps of Engineers to determine whether to issue, modify, condition or deny a permit for this project. 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 and/or an Environmental Impact Statement pursuant to the National Environmental Policy Act. Comments are also used to determine the need for a public hearing and to determine the overall public interest of the activity.

If there are any questions concerning this public notice, please contact Coit Bowles at 803-253-3400.



Site Location

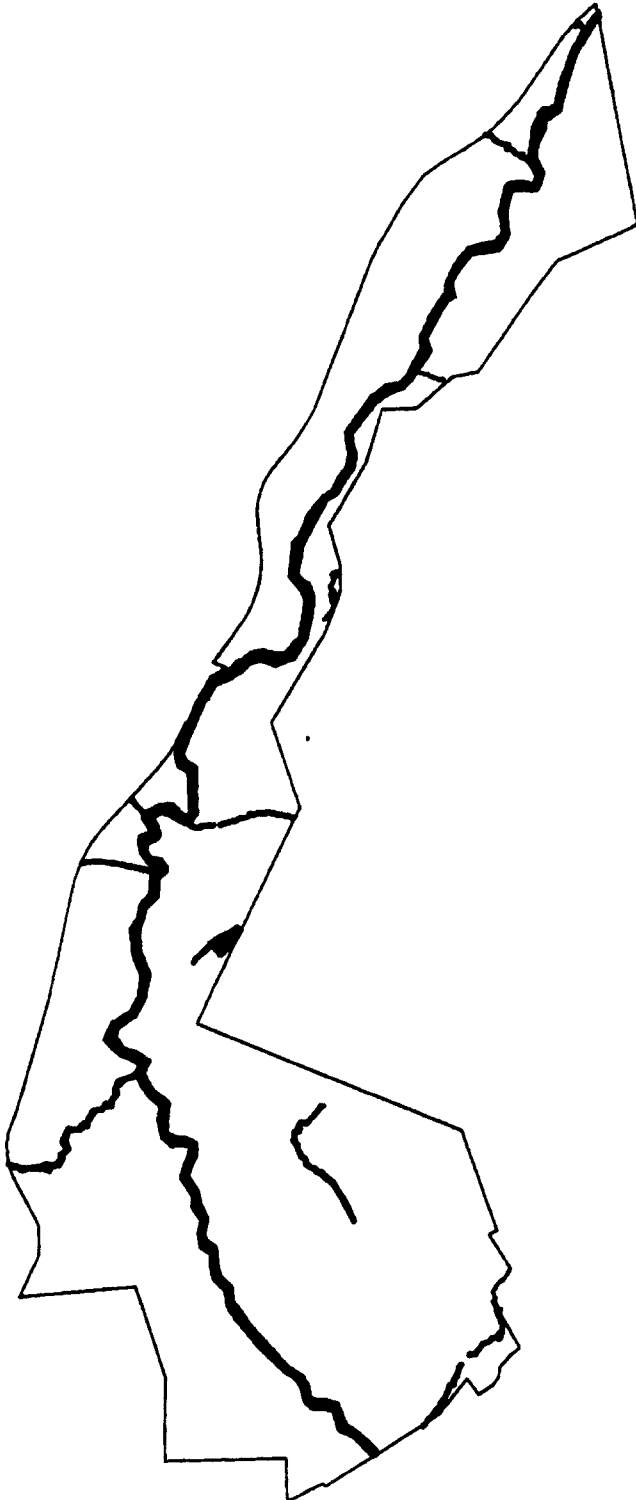
Source: USGS Topographic Series, Slater Quadrant  
Greenville County, South Carolina



ENVIRONMENTAL  
PERMITTING  
CONSULTANTS, INC.

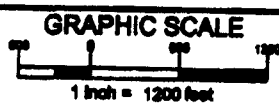
GRAPHIC SCALE	
1000	2000
1 Inch = 2000 feet	
Post Office Box 5744 Greenville, SC 29605 Phone: (804) 271-8048 Fax: (804) 271-0122	DRAWN BY: CPS DATE: 1/18/97 EPC PROJECT NO.: 69141

Mountain Park Course  
2007-1312-6J  
July 13, 2007  
Sheet 1 of 49



REVISIONS	
NO.	DESCRIPTION

**ENVIRONMENTAL  
PERMITTING  
CONSULTANTS, INC.**



Post Office Box 2744 Greenville, SC 29602 Phone (803) 271-8888 Fax (803) 258-8888	DRAWN BY: JPB DATE: 1/10/07 EPC PROJECT NO.: 00441
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Mountain Park Course  
2007-1312-6J  
July 13, 2007  
Sheet 2 of 49

**ENVIRONMENTAL  
PERMITTING  
CONSULTANTS, INC.**

**GRAPHIC SCALE**



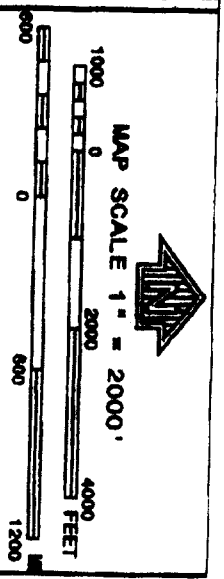
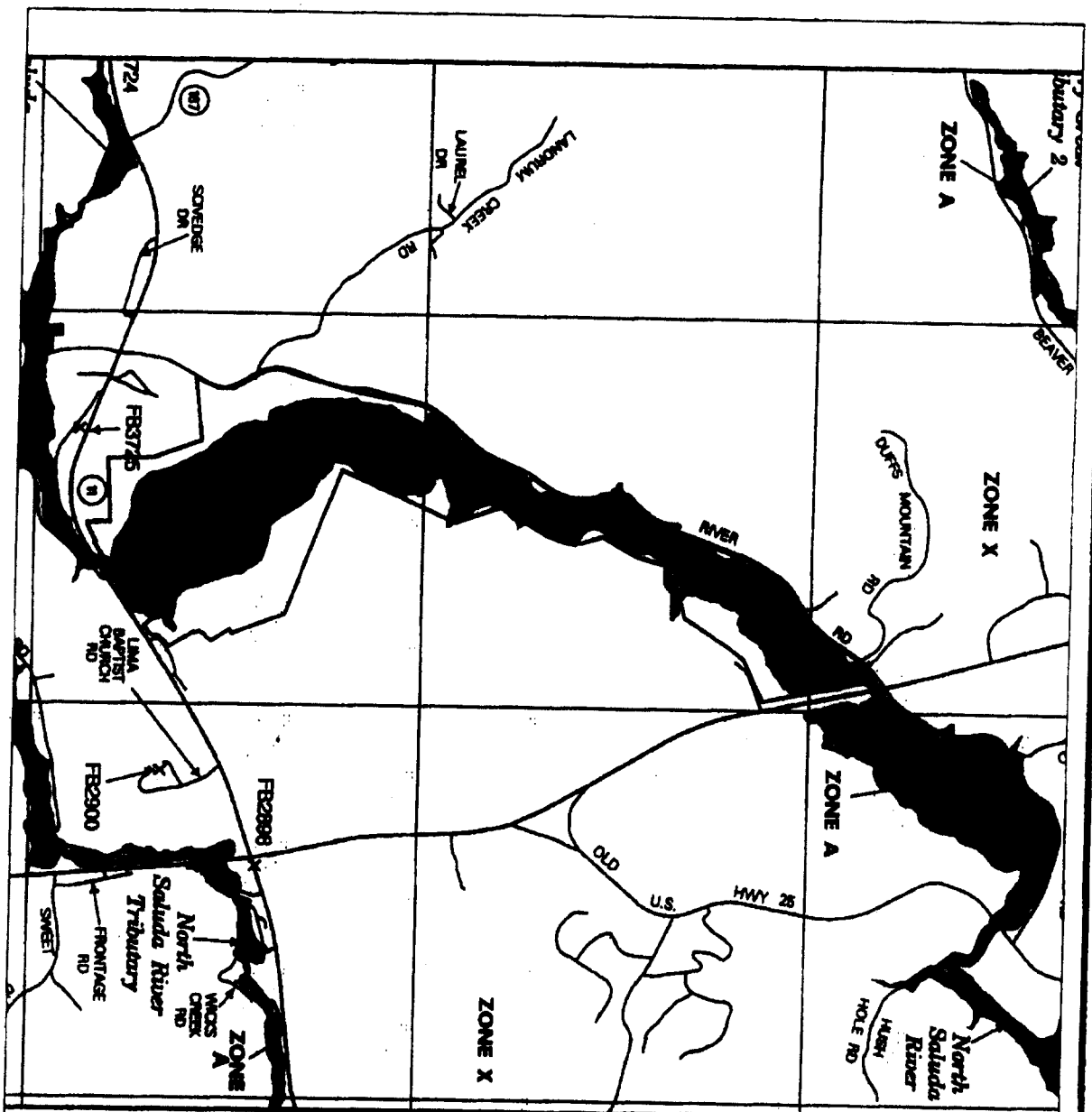
Paul Orlin, Inc. 2004  
Greenville, SC 29609  
Phone: (803) 271-9400  
Fax: (803) 284-4800

DATE: 07/13/07  
UNREVISED

PROJECT NO.: 07141

**REVISIONS**

NO.	DATE	DESCRIPTION



**NATIONAL FLOOD INSURANCE PROGRAM**

**FIRM**  
FLOOD INSURANCE RATE MAP  
GREENVILLE COUNTY,  
SOUTH CAROLINA  
AND INCORPORATED AREAS

**PANEL 02280**

**PANEL 225 OF 025**

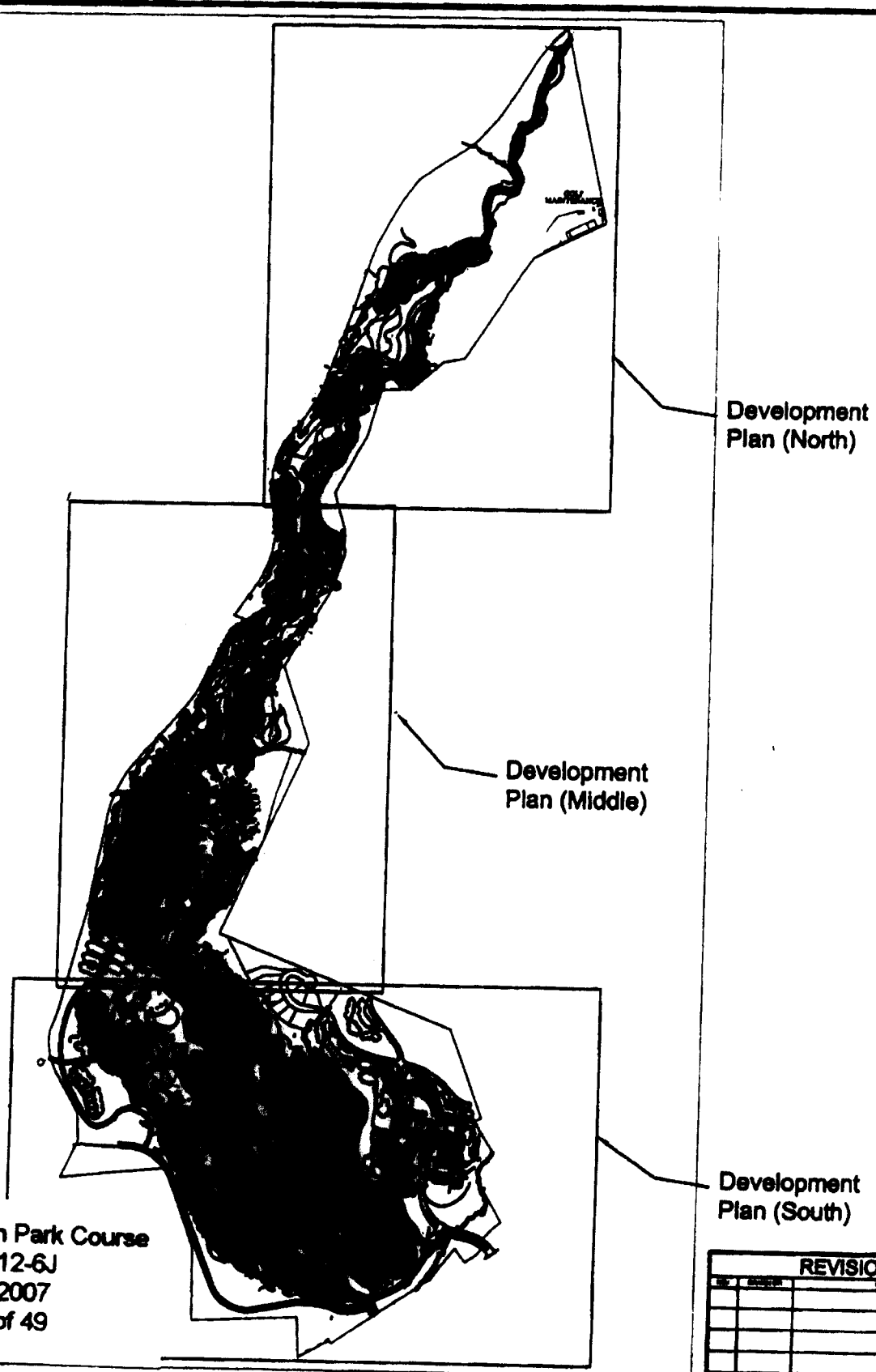
SEE MAP INDEX FOR PANEL LAYOUT

**DATE:** 07/13/07  
**DATE:** 07/13/07  
**DATE:** 07/13/07

**MAP NUMBER:** 4804002250  
**EFFECTIVE DATE:** FEBRUARY 2, 2004

Federal Emergency Management Agency

Mountain Park Course  
2007-1312-6J  
July 13, 2007  
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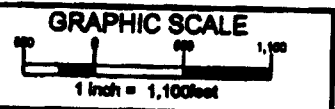
Development Plan (North)

Development Plan (Middle)

Development Plan (South)

Mountain Park Course  
 2007-1312-6J  
 July 13, 2007  
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REVISIONS		
NO.	DATE	DESCRIPTION



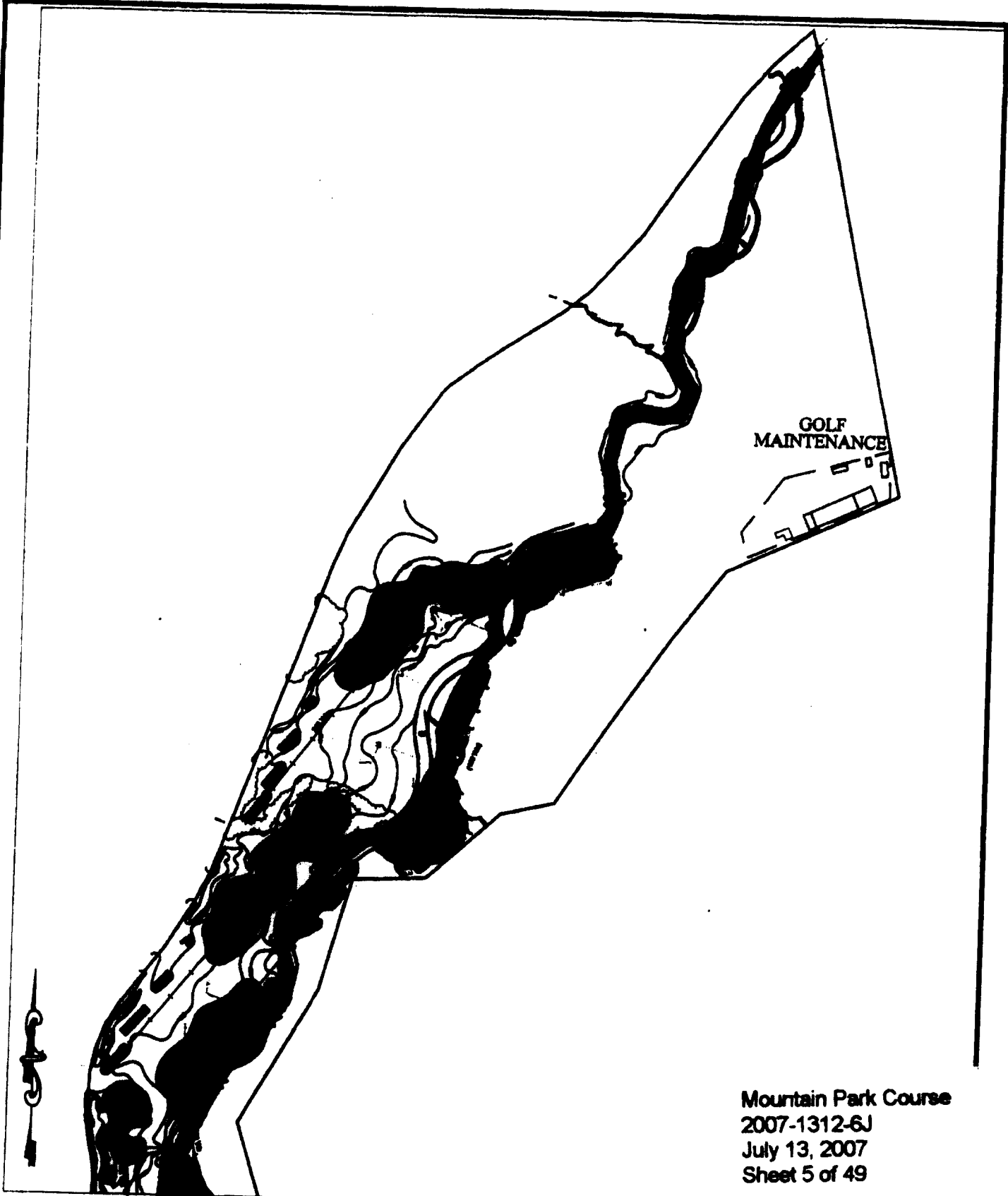
**ENVIRONMENTAL PERMITTING CONSULTANTS, INC.**

Post Office Box 2744  
 Greenville, SC 29603  
 Phone: (252) 871-0040  
 Fax: (252) 871-0040

DRAWN BY: HPO  
 DATE: 1/18/07  
 SPC PROJECT NO.: 02141

**Development Plan Overview**  
 Mountain Park Course  
 Clifra Communities Inc.  
 Greenville County  
 USACE PN: \_\_\_\_\_

SHEET NO.  
**Sheet 4 of 24**  
 OF



GOLF  
MAINTENANCE

Mountain Park Course  
2007-1312-6J  
July 13, 2007  
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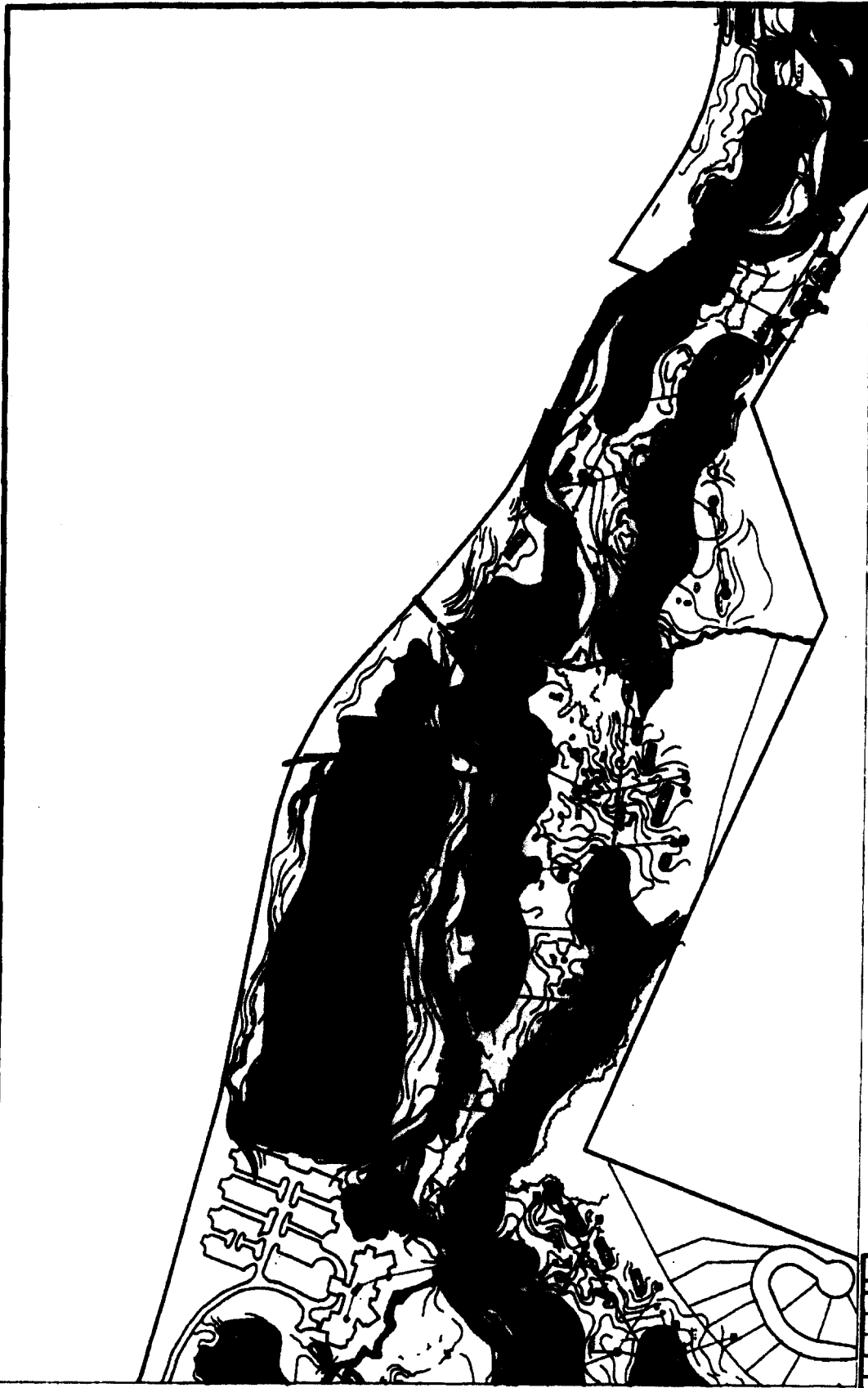
**ENVIRONMENTAL  
PERMITTING  
CONSULTANTS, INC.**

GRAPHIC SCALE	
1 inch = 400 feet	
Post Office Box 2744 Greenville, SC 29602 Phone: (252) 271-0249 Fax: (252) 271-0279	DRAWN BY: JPC DATE: 7/13/07 SPC PROJECT NO.: 00141

**Development Plan (North)**  
Mountain Park Course  
Cliffs Communities Inc.  
Greenville County  
USACE P/N:

SHEET NO.  
Sheet 5  
of 24  
OF





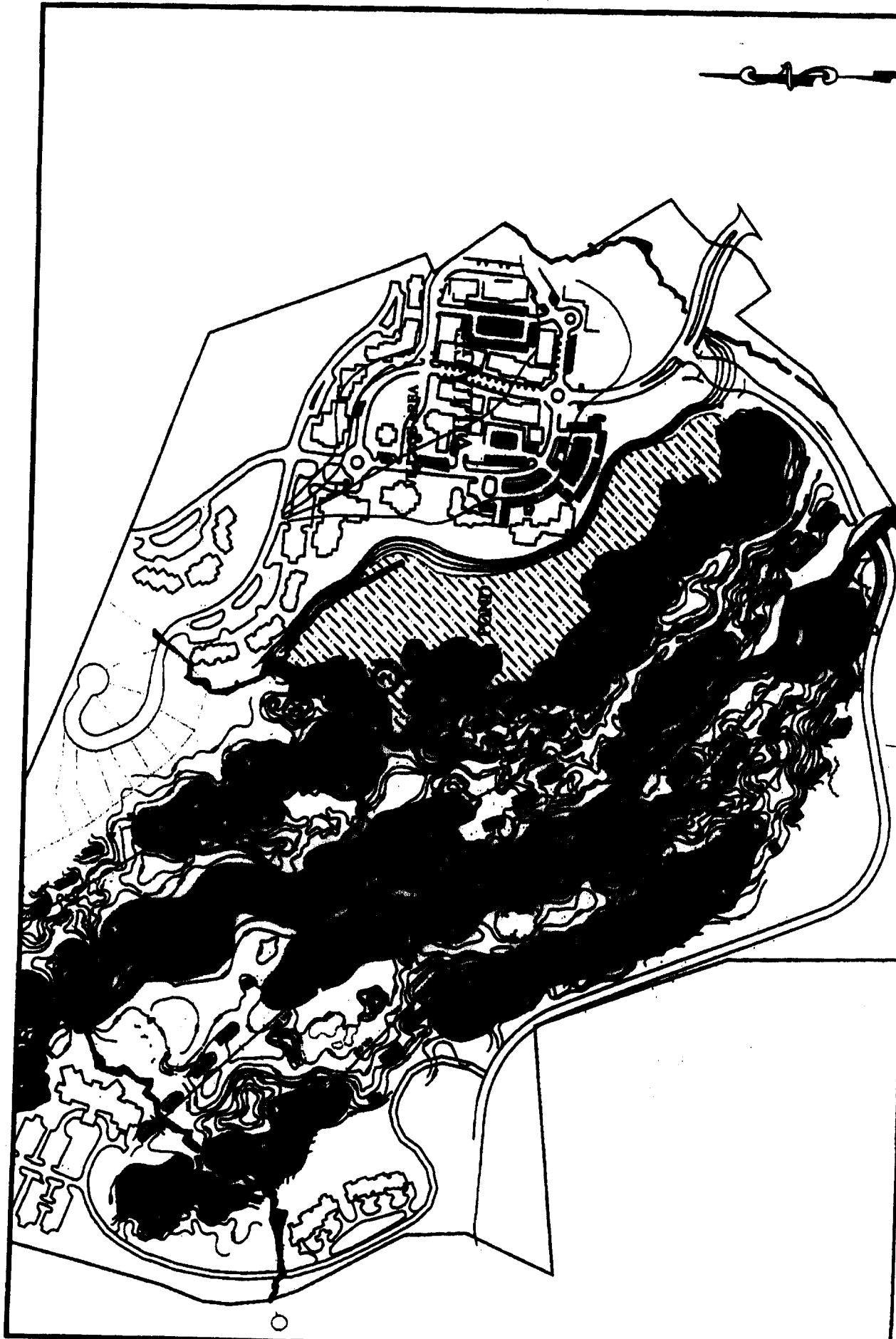
Mountain Park Course  
 2007-1312-6J  
 July 13, 2007  
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**ENVIRONMENTAL  
 PERMITTING  
 CONSULTANTS, INC.**

GRAPHIC SCALE	
1 inch = 400 feet	
Post Office Box 5744 Greenville, SC 29608 Phone (864) 271-8888 Fax: (864) 282-8889	DRAWN BY: KPG DATE: 1/18/07 SPO PROJECT NO.: 00141

**Development Plan (Middle)**  
 Mountain Park Course  
 Cliffs Communities Inc.  
 Greenville County  
 USACE P/N: \_\_\_\_\_

SHEET NO.  
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 OF



SHEET NO.  
**Sheet 7**  
 of 24  
 OF

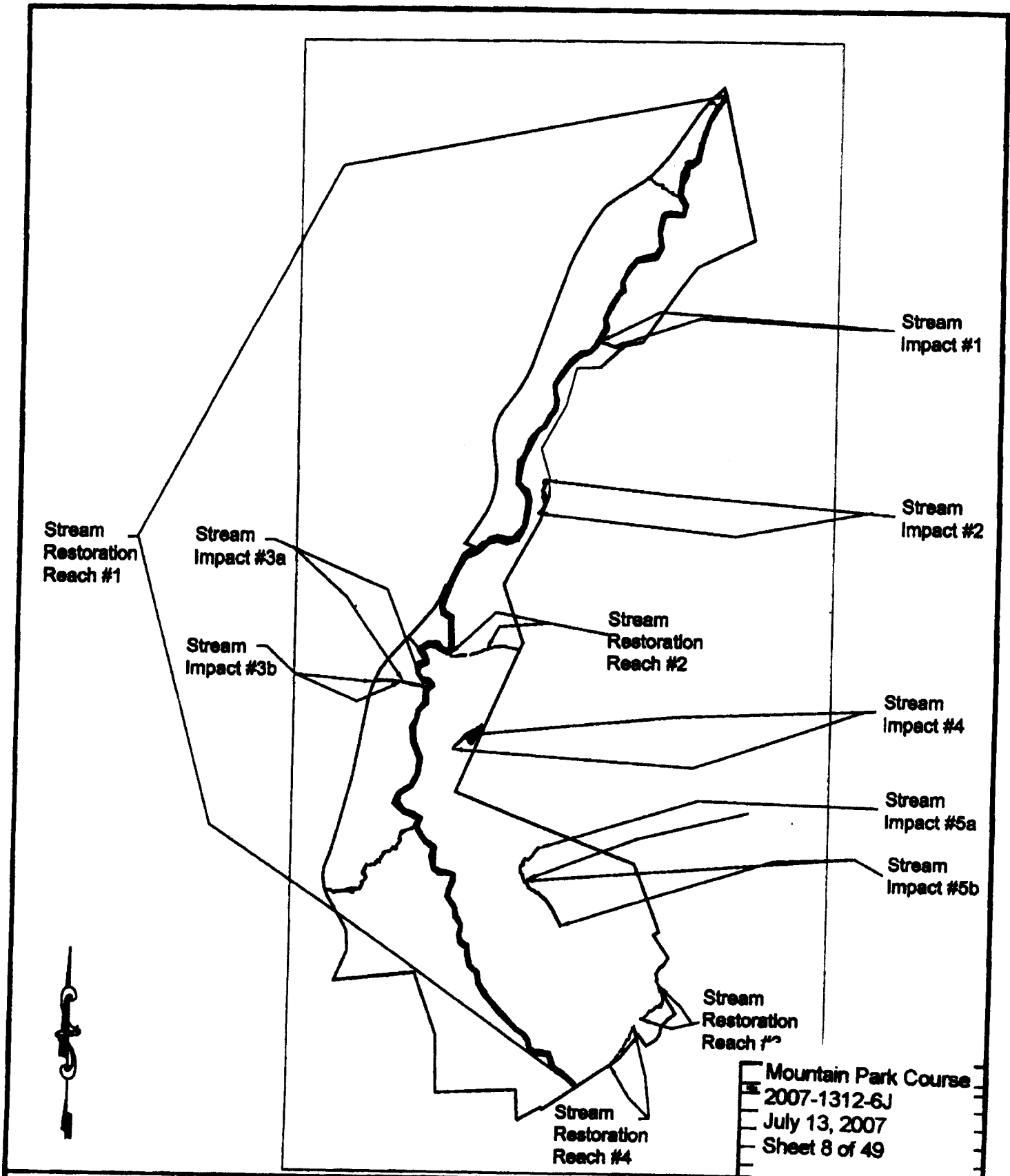
**Development Plan (South)**  
 Mountain Park Course  
 CMAA Communities Inc.  
 Greenville County

**Mountain Park Course**  
 2007-1312-6J  
 July 13, 2007  
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USACE P/N:

GRAPHIC SCALE	
<p>1 inch = 400 feet</p>	<p>DATE: 7/13/07</p> <p>BY: [Signature]</p> <p>PROJECT NO.: 07-1312-6J</p>

**ENVIRONMENTAL PERMITTING CONSULTANTS, INC.**



**ENVIRONMENTAL  
 PERMITTING  
 CONSULTANTS, INC.**



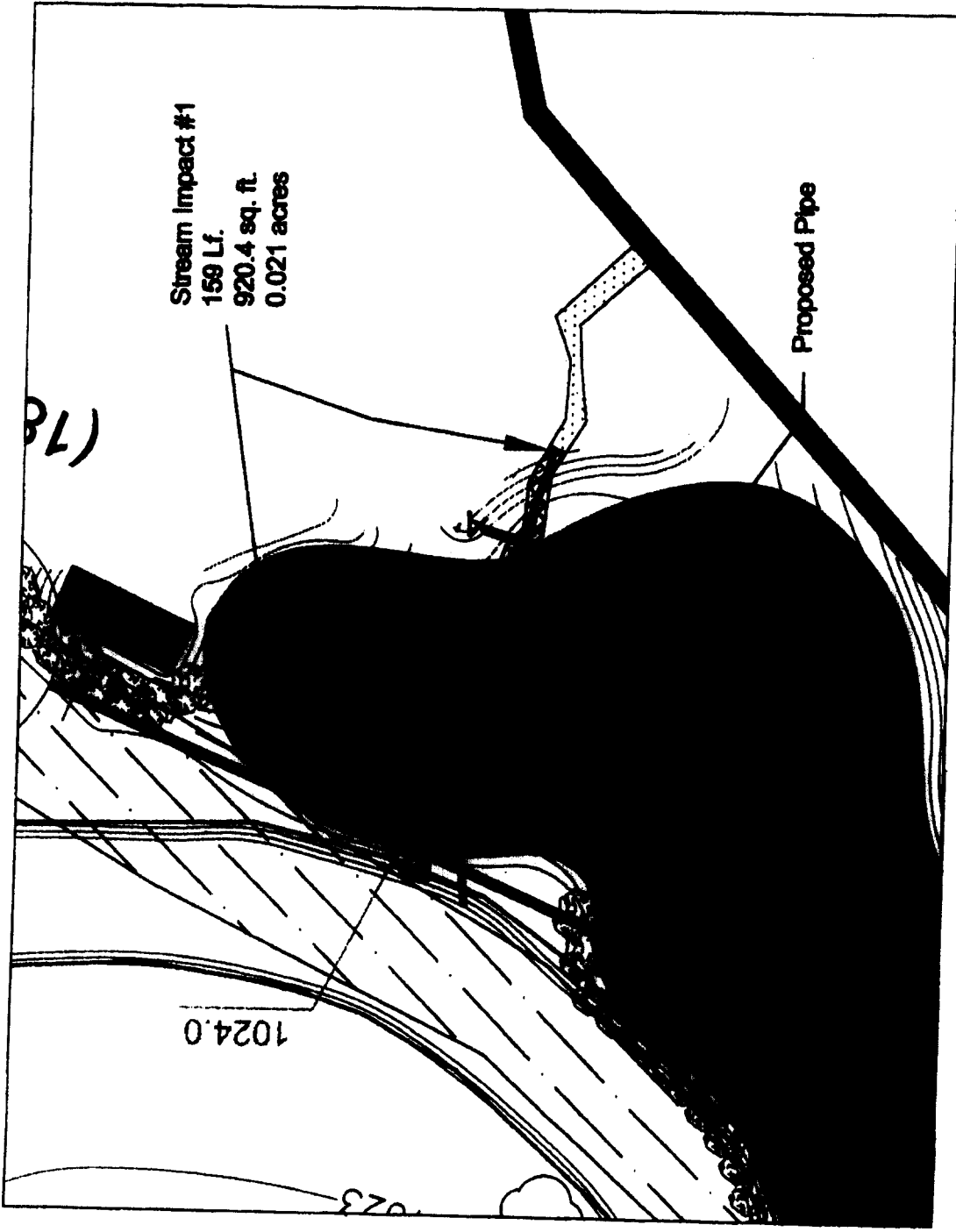
Plot Office Box 5744 Greenville, SC 29609 Phone (864) 871-8844 Fax (864) 871-8789	DRAWN BY: <b>WPG</b> DATE: <b>1/18/07</b> EPC PROJECT NO.: <b>09461</b>
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**Impact and Restoration Overview**

Mountain Park Course  
 CMAA Communities Inc.  
 Greenville County

USACE P/N:

SHEET NO.  
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 of 24  
 OF



Stream Impact #1  
 159 Lf.  
 920.4 sq. ft.  
 0.021 acres

Proposed Pipe

**ENVIRONMENTAL PERMITTING CONSULTANTS, INC.**

1024.0

023

(7L)

GRAPHIC SCALE  
 1 inch = 50 feet

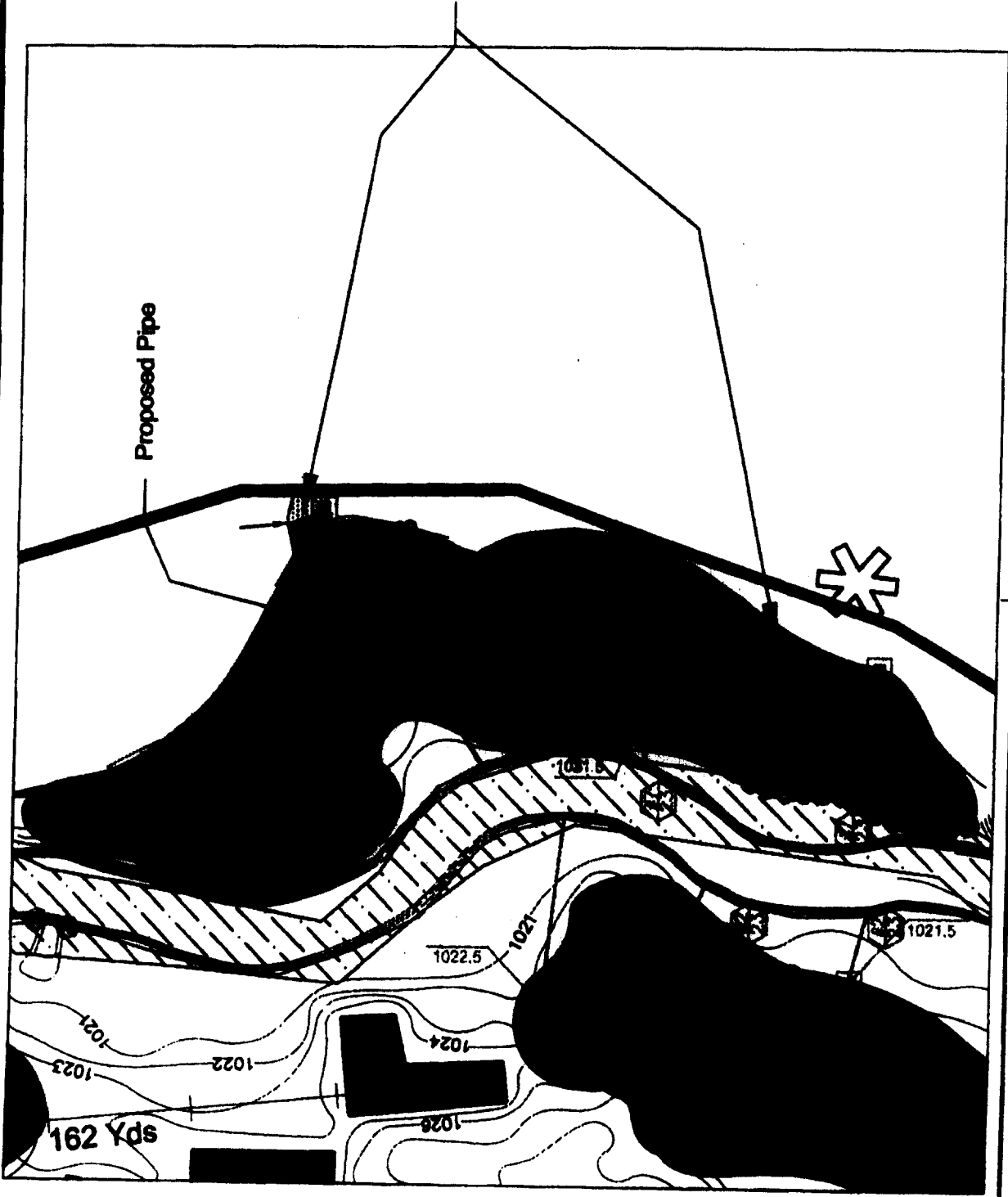
Project No.	2007-1312-6J
Client	Mountain Park Course
City	Greenville, SC 29609
Phone	(864) 271-2200
Fax	(864) 271-2200
Project No.	2007-1312-6J
Client	Mountain Park Course
City	Greenville, SC 29609
Phone	(864) 271-2200
Fax	(864) 271-2200

Mountain Park Course  
 2007-1312-6J  
 July 13, 2007  
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USACE PLAN

Impact #1 on Hole #6  
 Mountain Park Course  
 City of Greenville Inc.  
 Greenville County

SHEET NO. \_\_\_\_\_ OF \_\_\_\_\_



Stream Impact #2  
 374 Lf.  
 6,929.1 sq. ft.  
 0.159 ac.



Proposed Pipe

**GRAPHIC SCALE**

1 inch = 100 feet

Prepared by: [Signature]	DATE: 1/13/07
Checked by: [Signature]	DATE: 1/13/07
Drawn by: [Signature]	DATE: 1/13/07
Project No. 2007-1312-6J	Project Name: Mountain Park Course
Project Location: Greenville County	Project Description: Impact #2 on Hole #7

Mountain Park Course  
 2007-1312-6J  
 July 13, 2007  
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**ENVIRONMENTAL PERMITTING CONSULTANTS, INC.**

USACE PIN: \_\_\_\_\_  
 Impact #2 on Hole #7  
 Mountain Park Course  
 C&S Communities Inc.  
 Greenville County

SHEET NO. \_\_\_\_\_ OF \_\_\_\_\_

Stream Impact #3a  
 215 Lf.  
 2,099.02 sq. ft  
 0.048 ac.

Stream Impact #3b  
 252 Lf.  
 2,060.02 sq. ft  
 0.047 ac.

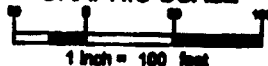


Proposed Pipe

Mountain Park Course  
 2007-1312-6J  
 July 13, 2007  
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**ENVIRONMENTAL  
 PERMITTING  
 CONSULTANTS, INC.**

GRAPHIC SCALE



Plot Date: 07/13/07  
 Greenville, SC 29605  
 Phone: (252) 871-8940  
 Fax: (252) 871-8949

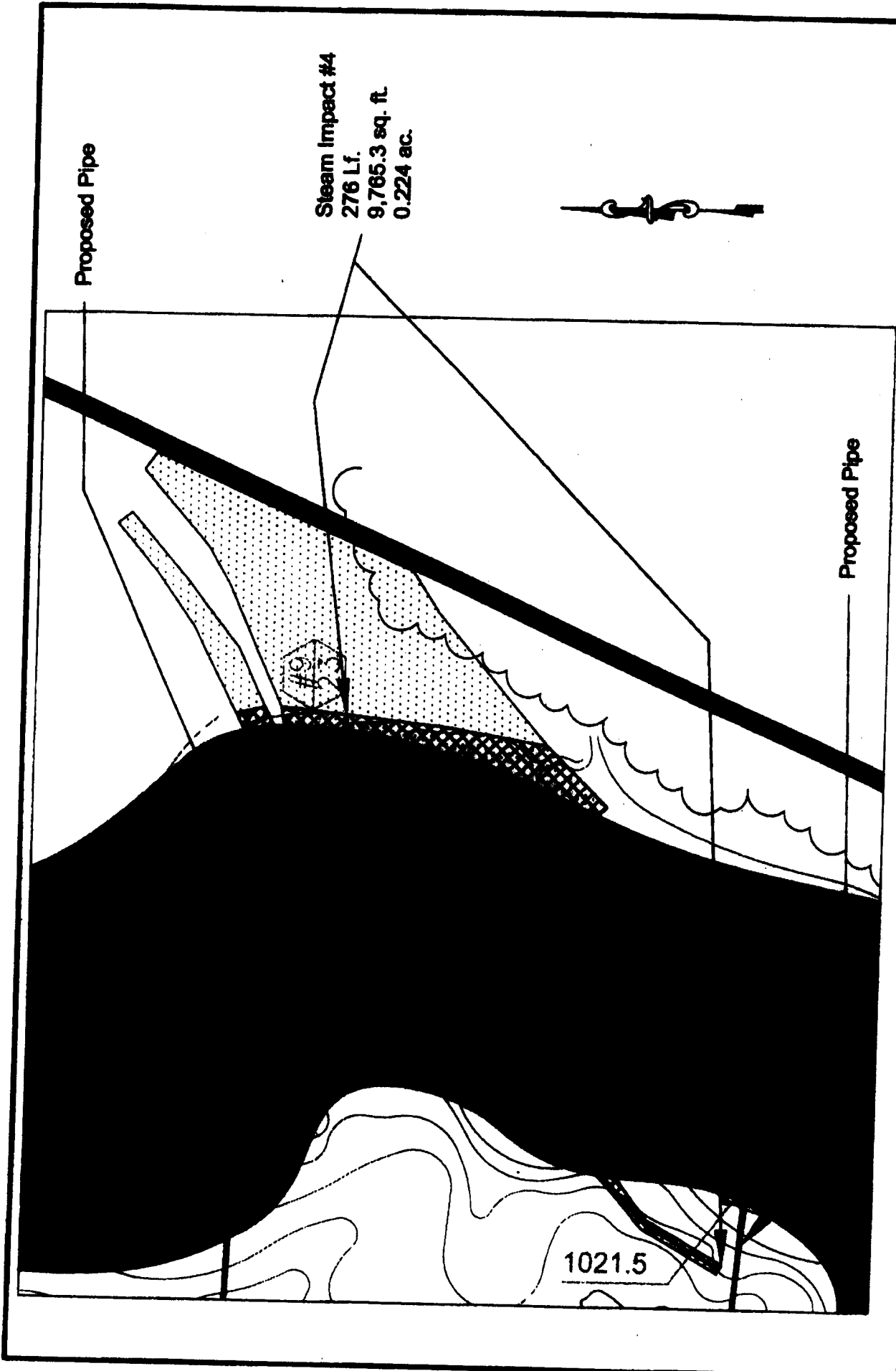
PROJECT #71 070  
 DATE: 1/10/07  
 EPC PROJECT NO.: 00401

Impacts 3a & 3b on Range

Mountain Park Course  
 Civic Communities Inc.  
 Greenville County

USACE P/N:

OF



Steam Impact #4  
 276 Lf.  
 9,765.3 sq. ft.  
 0.224 ac.



Proposed Pipe

Proposed Pipe

**ENVIRONMENTAL PERMITTING CONSULTANTS, INC.**

**GRAPHIC SCALE**  
 1 inch = 20 feet

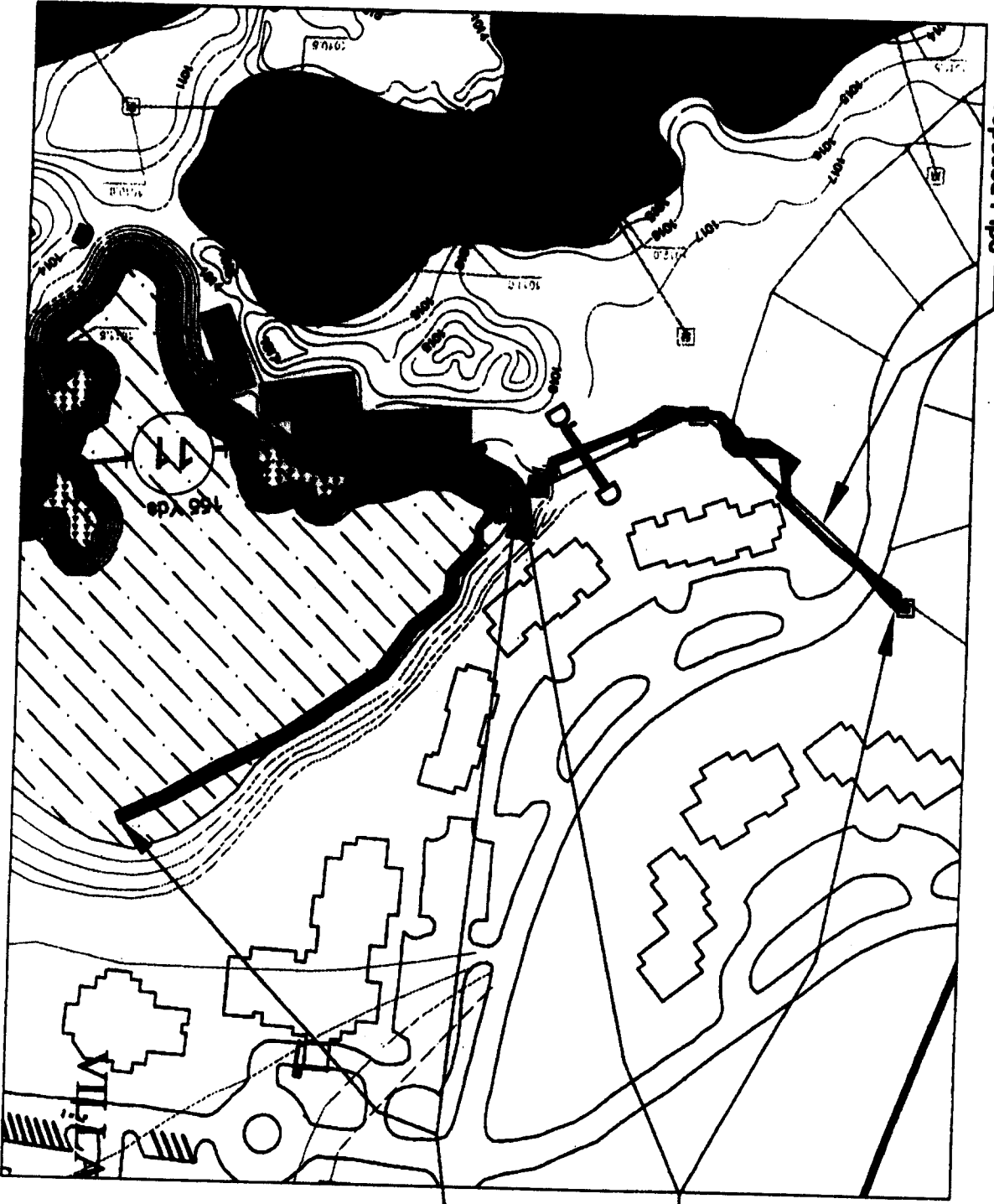
Project No.	2007-1312-6J
Client	Mountain Park Course
Contract No.	2007-1312-6J
Project Name	Mountain Park Course
Project Location	Greenville County
Project No.	2007-1312-6J
Project Name	Mountain Park Course
Project Location	Greenville County
Project No.	2007-1312-6J
Project Name	Mountain Park Course
Project Location	Greenville County

Mountain Park Course  
 2007-1312-6J  
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USACE P/N:  
 Impact # 4 on Hole 9  
 Mountain Park Course  
 Cliffs Communities Inc.  
 Greenville County

SHEET NO. \_\_\_\_\_ OF \_\_\_\_\_

Proposed Pipe



Stream Impact #5a  
(piped)  
528 Lf.  
5,168.0 sq. ft  
0.119 ac.

Stream Impact #5b  
(Impounded)  
525 Lf.  
6,236.9 sq. ft  
0.143 ac.



**ENVIRONMENTAL  
PERMITTING**

**CONSULTANTS, INC.**



Project Name: Mountain Park Course  
 Drawing No.: 2007-1312-6J  
 Date: July 13, 2007  
 Scale: As Shown  
 Project No.: 07011

Mountain Park Course  
 2007-1312-6J

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Impact #5 on Hole #10

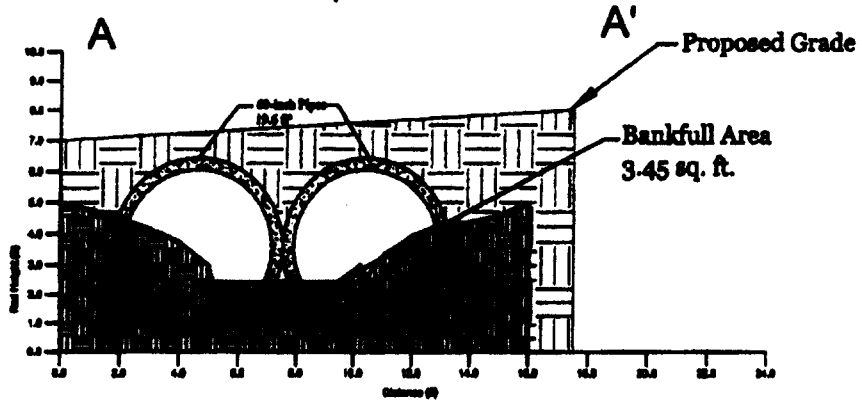
Mountain Park Course  
 Cotts Communities Inc.  
 Greenville County

SHEET NO.

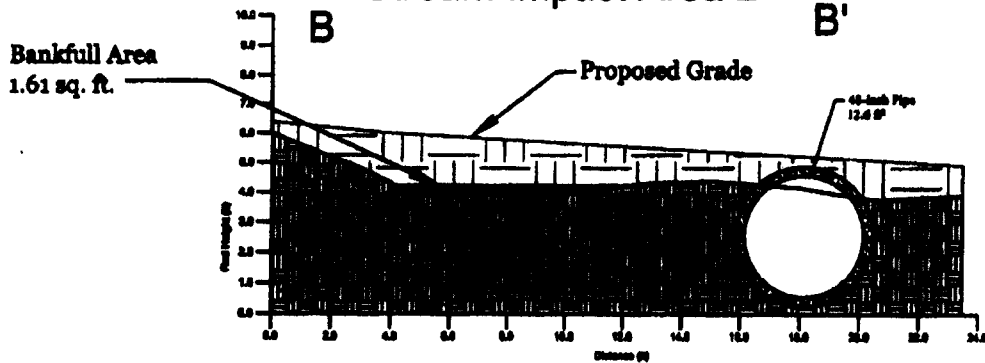
OF



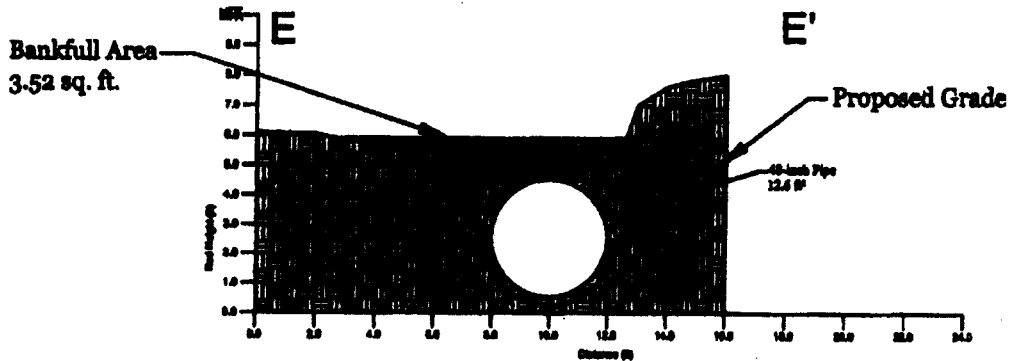
### Stream Impact Area 1



### Stream Impact Area 2



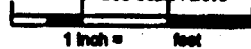
### Stream Impact Area 3



Mountain Park Course  
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**ENVIRONMENTAL  
 PERMITTING  
 CONSULTANTS, INC.**

**GRAPHIC SCALE**  
 See Scale Above



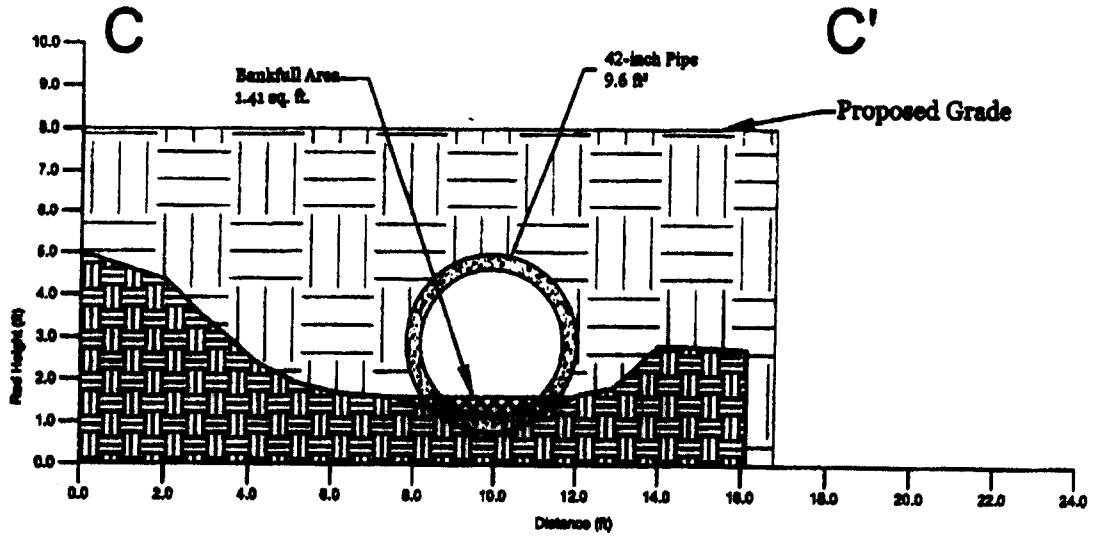
Post Office Box 2944  
 Greenville, SC 29602  
 Phone: (803) 271-2249  
 Fax: (803) 271-2259

DESIGNED BY: CPB  
 DATE: 1/10/07  
 EPCO PROJECT NO.: 00149

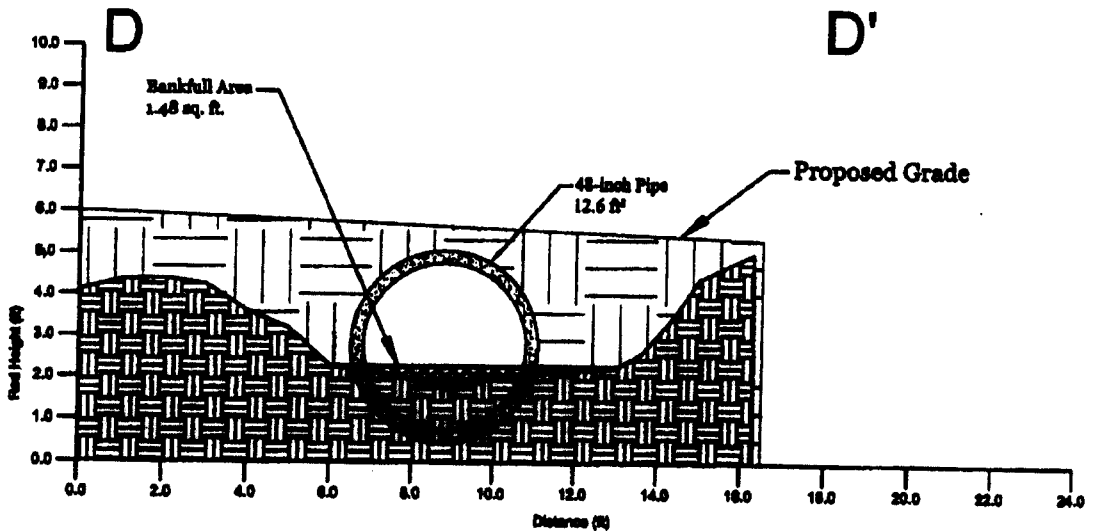
**Impact Cross Section 1, 2, & 3**  
 Mountain Park Course  
 Cliffs Communities Inc.  
 Greenville County  
 USACE P/N:

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 OF

# Stream Impact Area 4



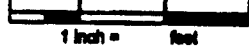
# Stream Impact Area 5



Mountain Park Course  
2007-1312-6J  
July 13, 2007  
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**ENVIRONMENTAL  
PERMITTING  
CONSULTANTS, INC.**

**GRAPHIC SCALE**  
See Scale Above



Plot Office Box 5744  
Greenville, SC 29605  
Phone (804) 271-8888  
Fax (803) 235-8888

DESIGNED BY: GFB  
DATE: 1/18/97  
EPC PROJECT NO.: 89141

**Impact Cross Section 4 & 5**

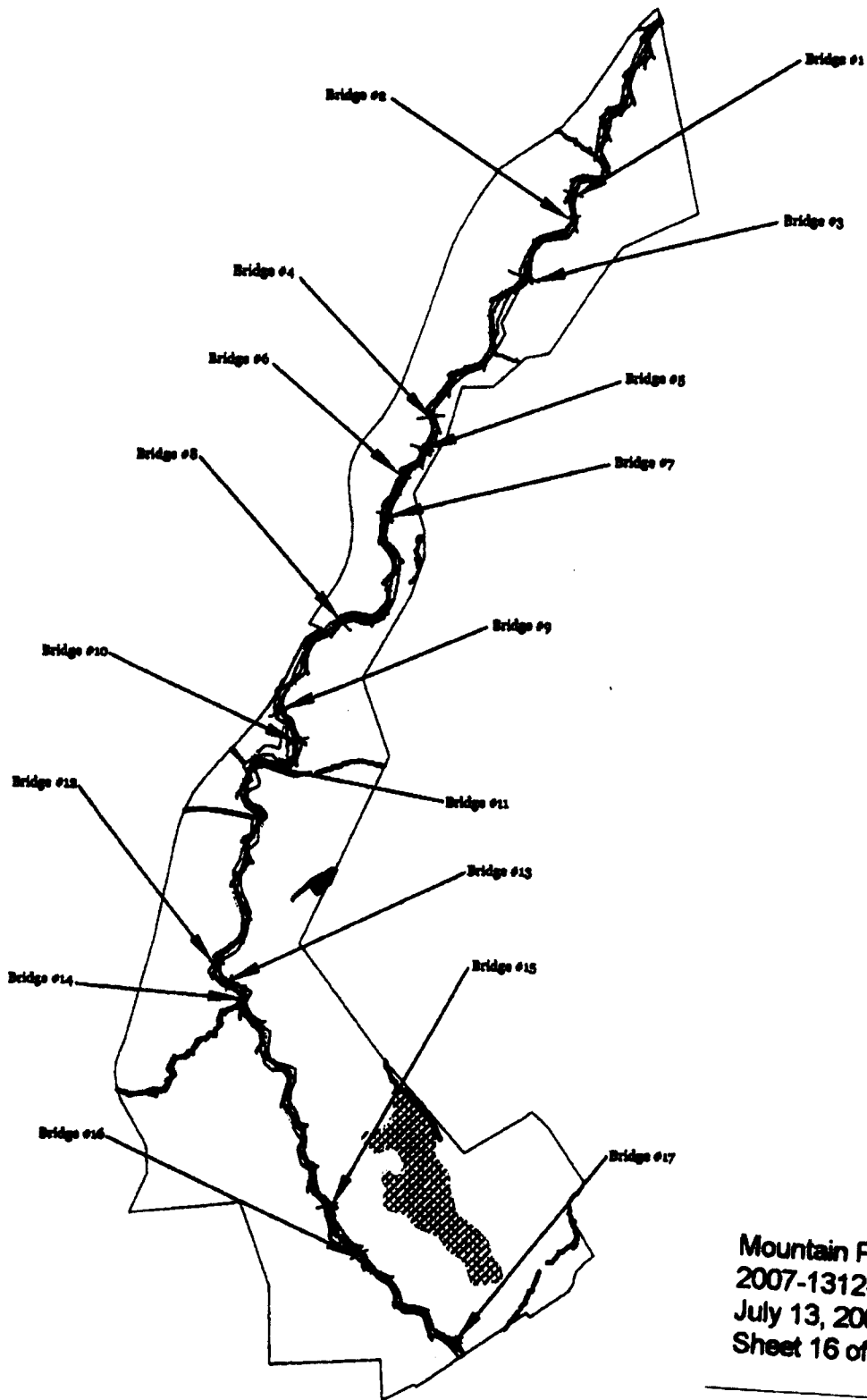
Mountain Park Course  
Cliffs Communities Inc.  
Greenville County

USACE P/N:

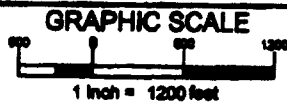
SHEET NO.

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OF



**ENVIRONMENTAL  
 PERMITTING  
 CONSULTANTS, INC.**

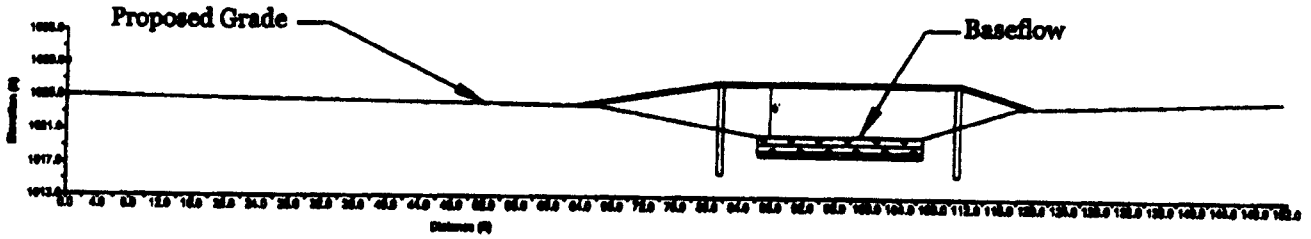


Post Office Box 2744 Greenville, SC 29608 Phone: (864) 271-3640 Fax: (864) 225-0889	DRAWN BY: CFB DATE: 1/10/07 EPC PROJECT NO.: 00141
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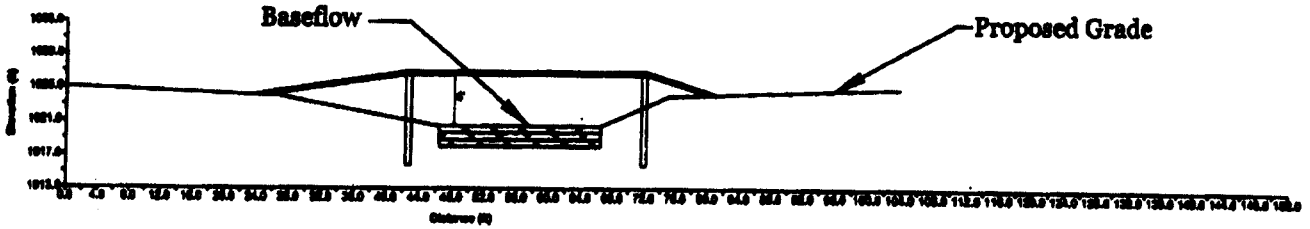
**Bridge Location**  
 Mountain Park Course  
 Cliffs Communities Inc.  
 Greenville County

FIGURE NO.  
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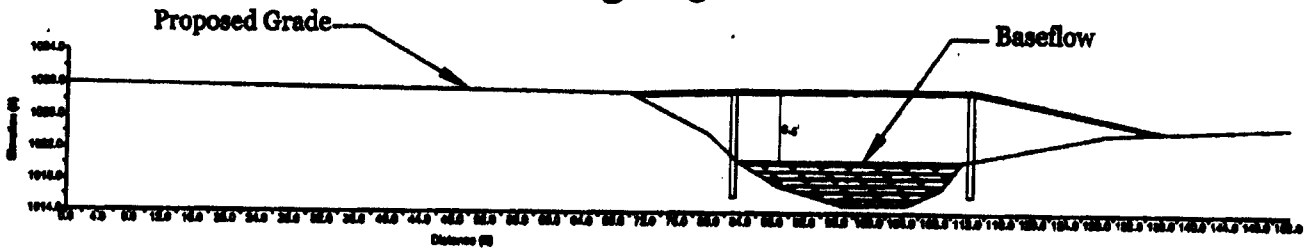
### Bridge #1



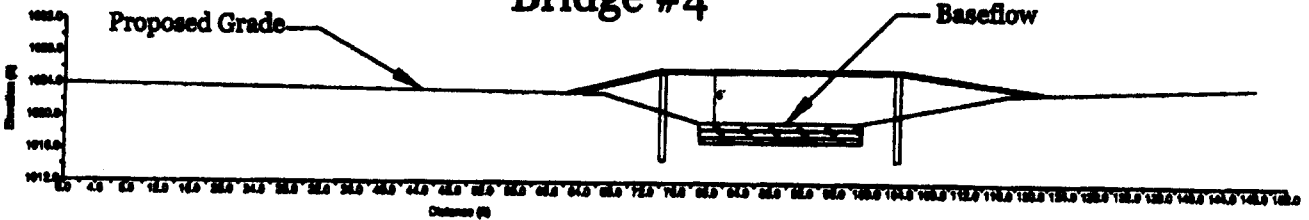
### Bridge #2



### Bridge #3



### Bridge #4



Mountain Park Course  
 2007-1312-6J  
 July 13, 2007  
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**ENVIRONMENTAL  
 PERMITTING  
 CONSULTANTS, INC.**

**GRAPHIC SCALE**



Project Office: 2044 Greenville, SC 29604 Phone: (252) 571-8200 Fax: (252) 571-8200	DRAWN BY: CPB DATE: 1/18/07 EPC PROJECT NO.: 09441
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**Bridge Cross Sections 1-4**

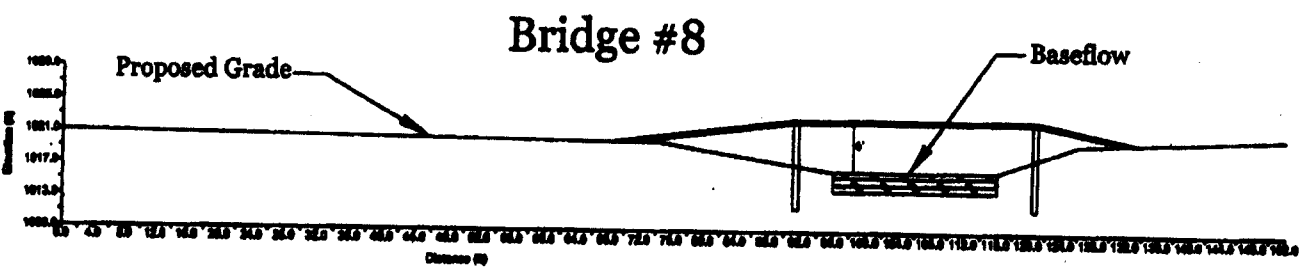
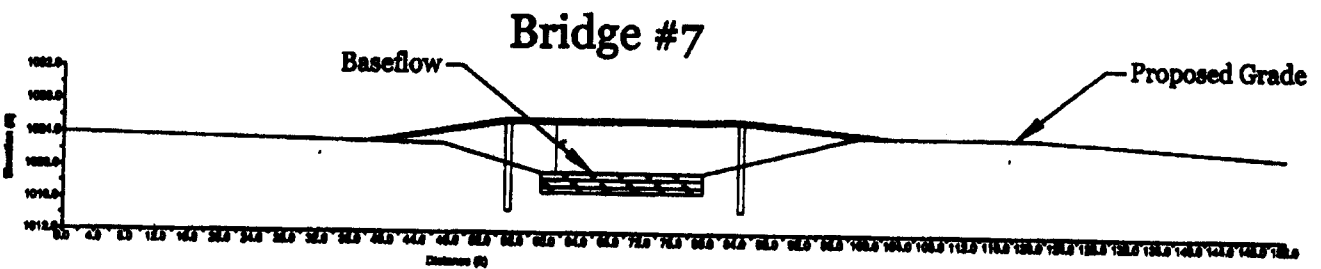
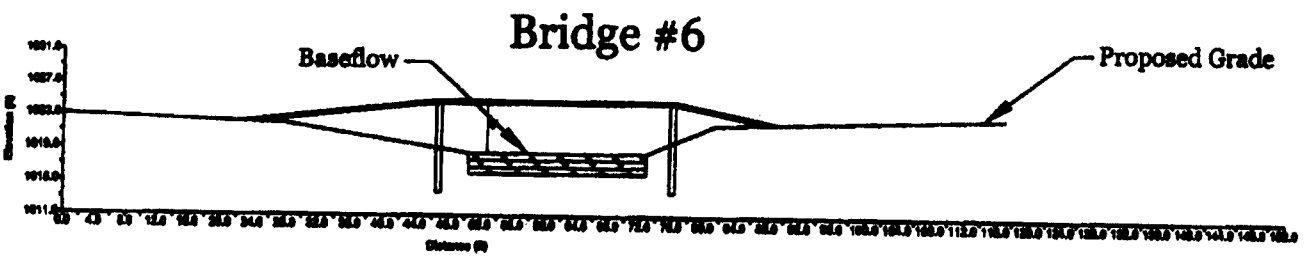
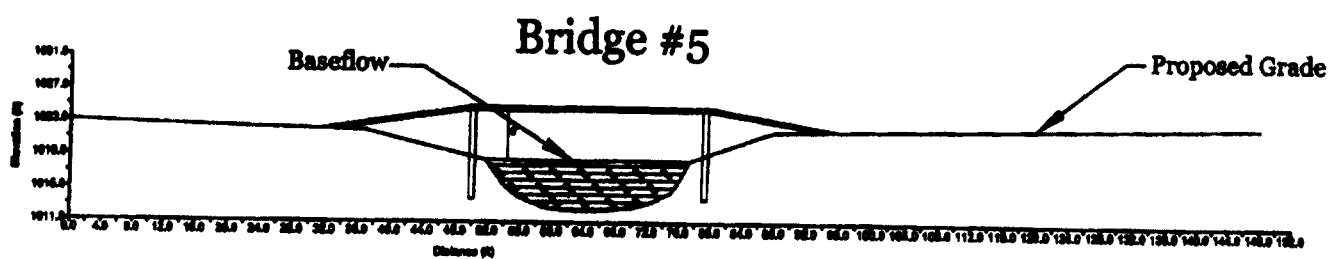
Mountain Park Course  
 Cliffs Communities Inc.  
 Greenville County

USACE P/N:

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Mountain Park Course  
 2007-1312-6J  
 July 13, 2007  
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**ENVIRONMENTAL  
 PERMITTING  
 CONSULTANTS, INC.**

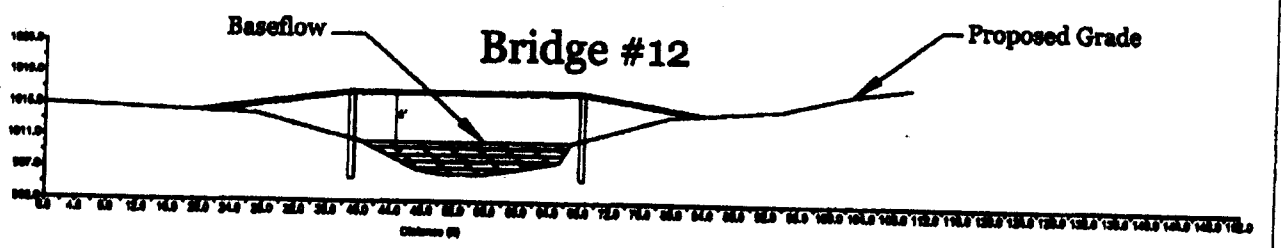
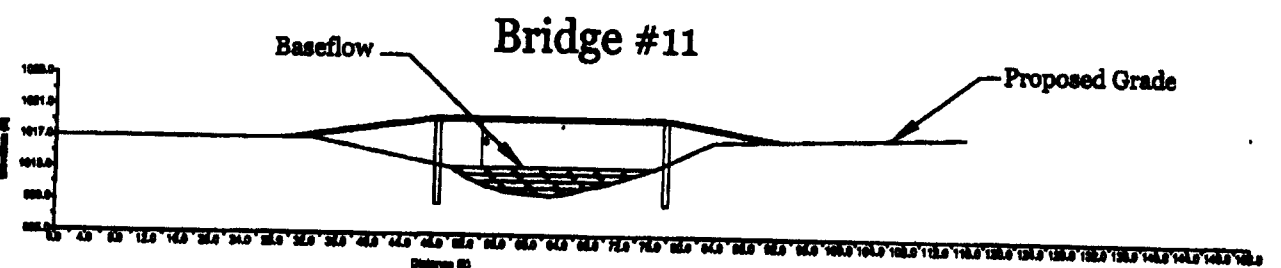
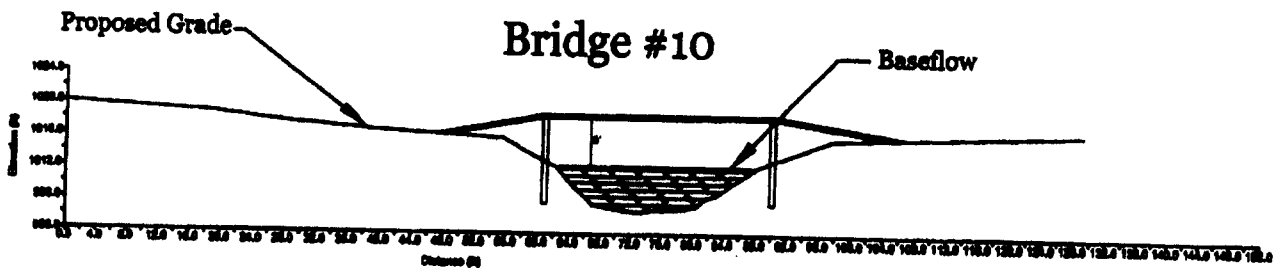
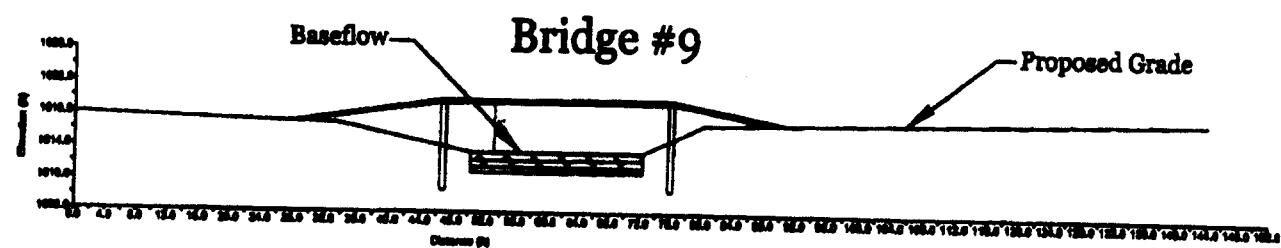
**GRAPHIC SCALE**  
 1 inch = feet

Post Office Box 2744 Greenville, SC 29608 Phone: (864) 271-0000 Fax: (864) 272-0000	DRAWN BY: CFB DATE: 7/13/07 EPC PROJECT NO.: 00141
--	--

**Bridge Cross Sections 5-8**  
 Mountain Park Course  
 Cliffs Communities Inc.  
 Greenville County

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USACE P/N:



Mountain Park Course  
 2007-1312-6J  
 July 13, 2007  
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**ENVIRONMENTAL  
 PERMITTING  
 CONSULTANTS, INC.**

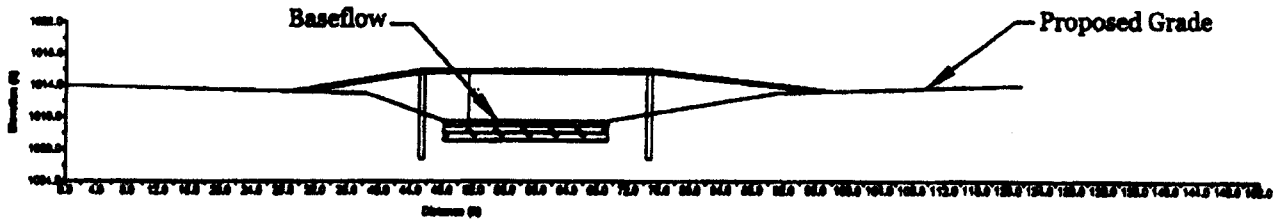
**GRAPHIC SCALE**  
  
 1 inch = 100 feet

Plot Office Box 5744 Greenville, SC 29609 Phone (803) 271-0049 Fax (803) 271-0099	DESIGNED BY: CFB DATE: 1/10/07 SPD PROJECT NO.: 00141
--	---

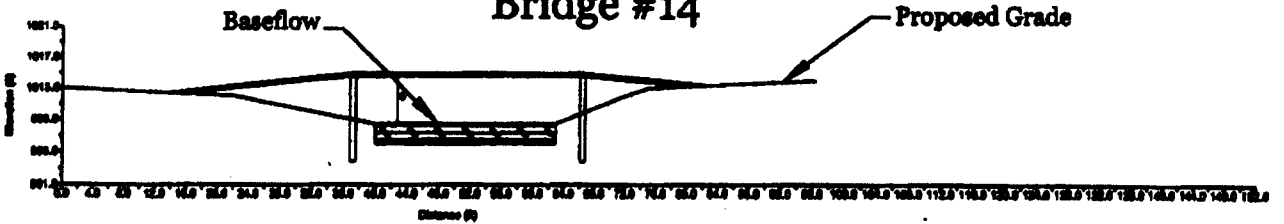
**Bridge Cross Sections 9-12**  
 Mountain Park Course  
 C&S Communities Inc.  
 Greenville County  
 USACE P/N:

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 OF

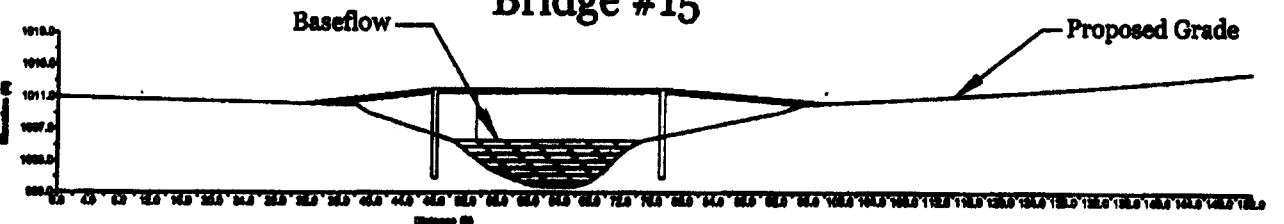
### Bridge #13



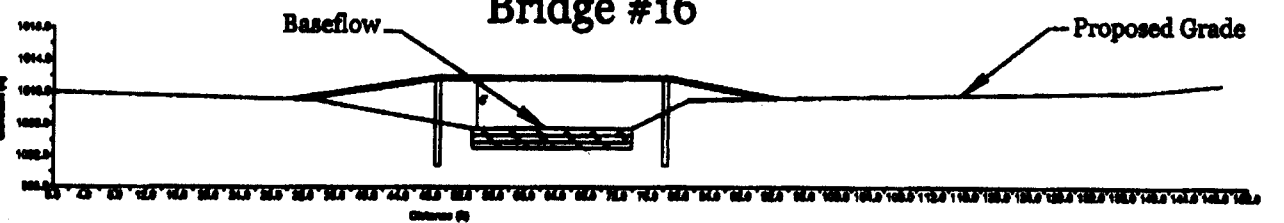
### Bridge #14



### Bridge #15



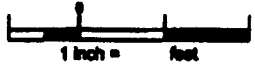
### Bridge #16



Mountain Park Course  
 2007-1312-6J  
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**ENVIRONMENTAL  
 PERMITTING  
 CONSULTANTS, INC.**

**GRAPHIC SCALE**



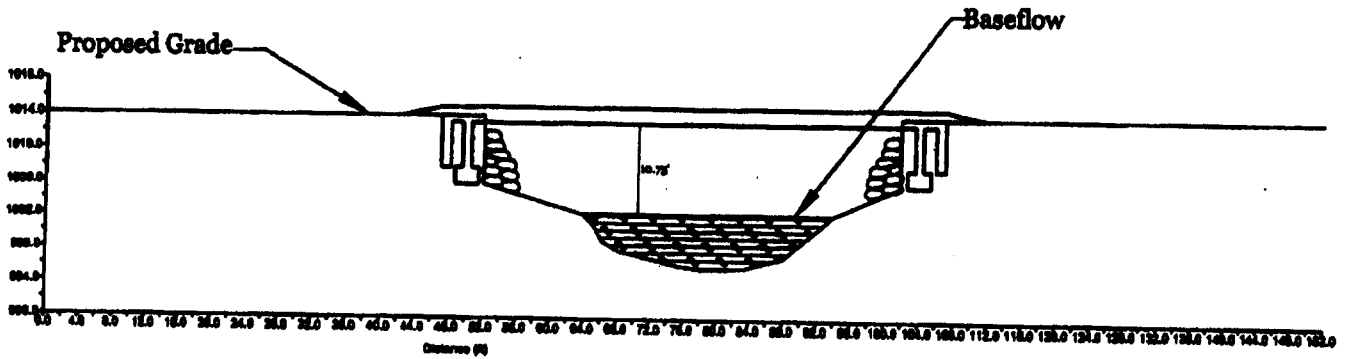
Post Office Box 2944 Greenville, SC 29609 Phone: (864) 271-0040 Fax: (864) 271-0099	DRAWN BY: CFB DATE: 1/16/07 GPS PROJECT NO.: 00491
--	--

**Bridge Cross Sections 13-16**  
 Mountain Park Course  
 Cliffs Communities Inc.  
 Greenville County

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USACE P/N:

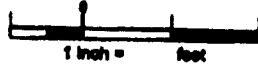
# Bridge #17



Mountain Park Course  
 2007-1312-6J  
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**ENVIRONMENTAL  
 PERMITTING  
 CONSULTANTS, INC.**

**GRAPHIC SCALE**



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 Greenville, SC 29609  
 Phone: (803) 271-9949  
 Fax: (803) 265-9992

DRAWN BY: CFB  
 DATE: 1/10/07  
 EPC PROJECT NO.: 09141

USACE P/N:

**Bridge Cross Sections 17**  
 Mountain Park Course  
 Cliffs Communities  
 Greenville County

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 OF



Buffer Enhancement Area #1

Buffer Enhancement Area #2

Stream Restoration Area #1

Buffer Enhancement Area #3

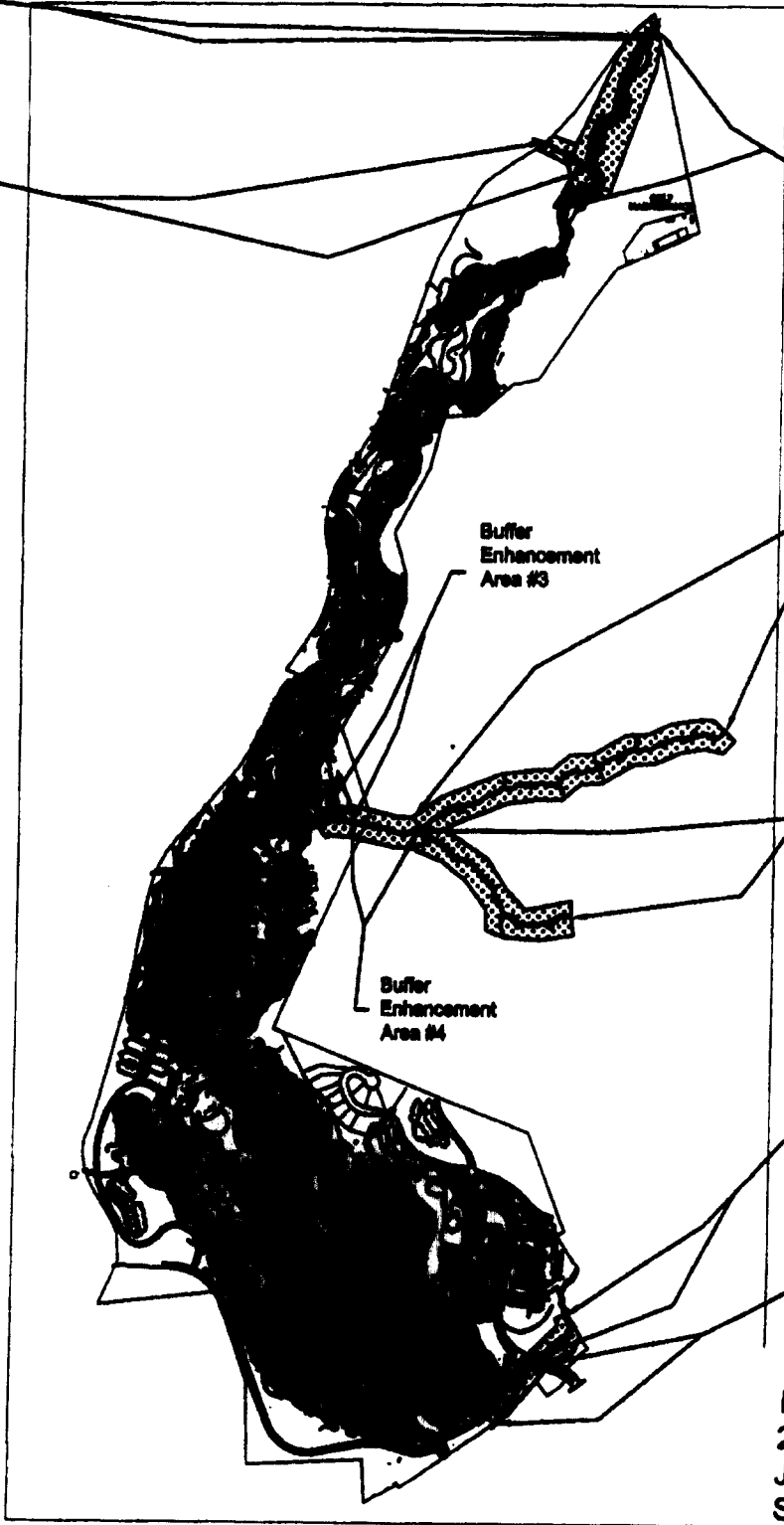
Buffer Enhancement Area #5

Buffer Enhancement Area #6

Buffer Enhancement Area #4

Stream Restoration Area #2

Stream Restoration Area #3



Mountain Park Course  
2007-1312-6J  
July 13, 2007  
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**ENVIRONMENTAL  
PERMITTING  
CONSULTANTS, INC.**

**GRAPHIC SCALE**

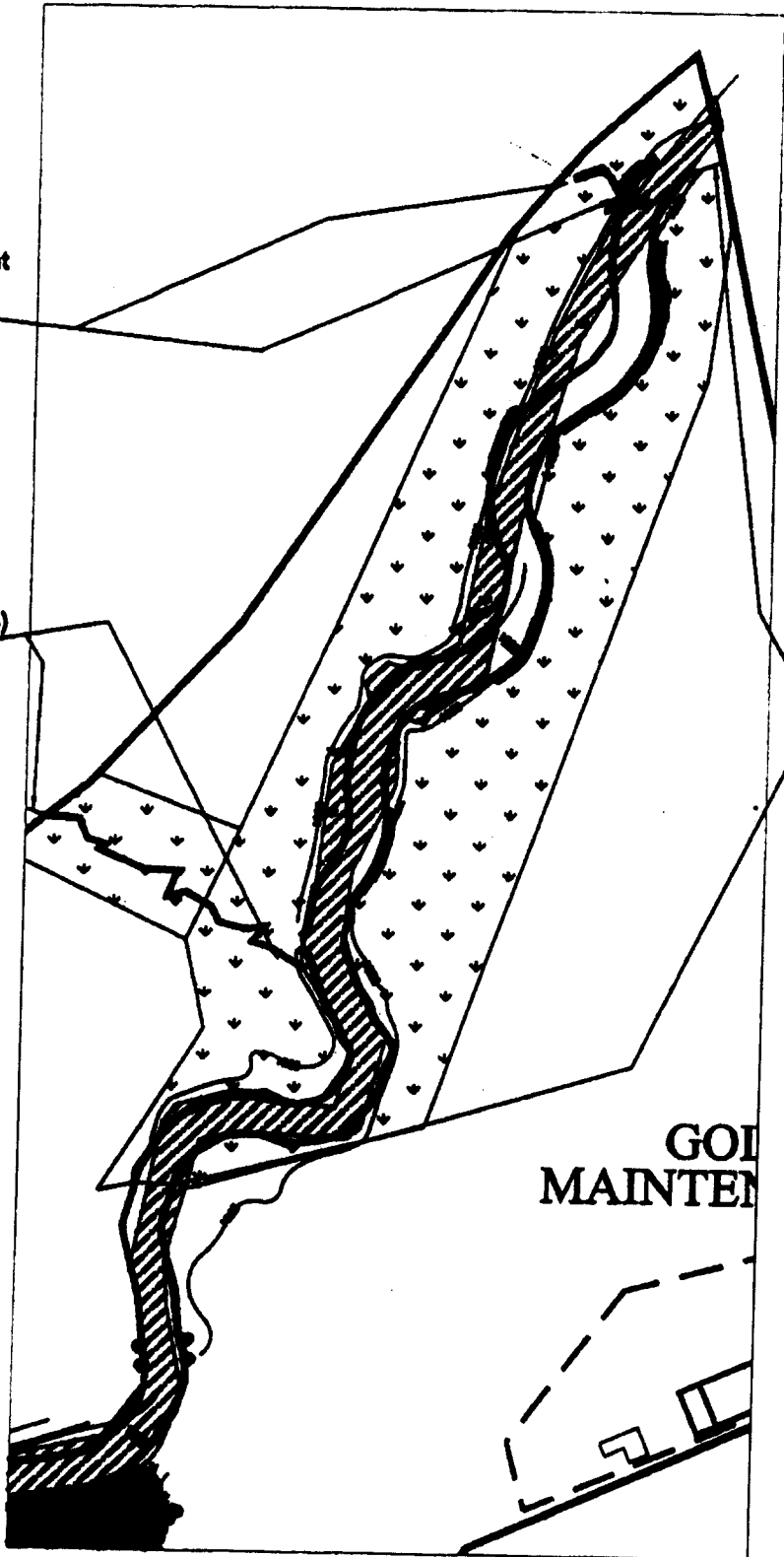
1 Inch = 1,200 feet

Post Office Box 5744 Greenville, SC 29616 Phone: (864) 571-0000 Fax: (864) 295-0000	DRAWN BY: <b>EPG</b> DATE: <b>1/18/07</b> EPC PROJECT NO.: <b>60141</b>
--	---

**Mitigation Overview**  
Mountain Park Course  
Cliffs Communities Inc.  
Greenville County

USACE P/N:

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OF



Stream  
Buffer Enhancement  
Area #2  
83 Lf.  
Stream Area: N/A  
Buffer Area: N/A

Stream  
Buffer Enhancement  
Area #1 (50 ft. buffers)  
451 Lf.  
Stream Area: 0.026 ac.  
Buffer Area: 0.588 ac.

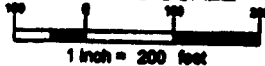
Stream  
Restoration  
Area #1 (75 ft. buffers)  
1,610 Lf.  
Stream Area: 1.852 ac.  
Buffer Area: 6.653 ac.

GOLF  
MAINTENANCE

Mountain Park Course  
2007-1312-6J  
July 13, 2007  
Sheet 23 of 49

**ENVIRONMENTAL  
PERMITTING  
CONSULTANTS, INC.**

**GRAPHIC SCALE**



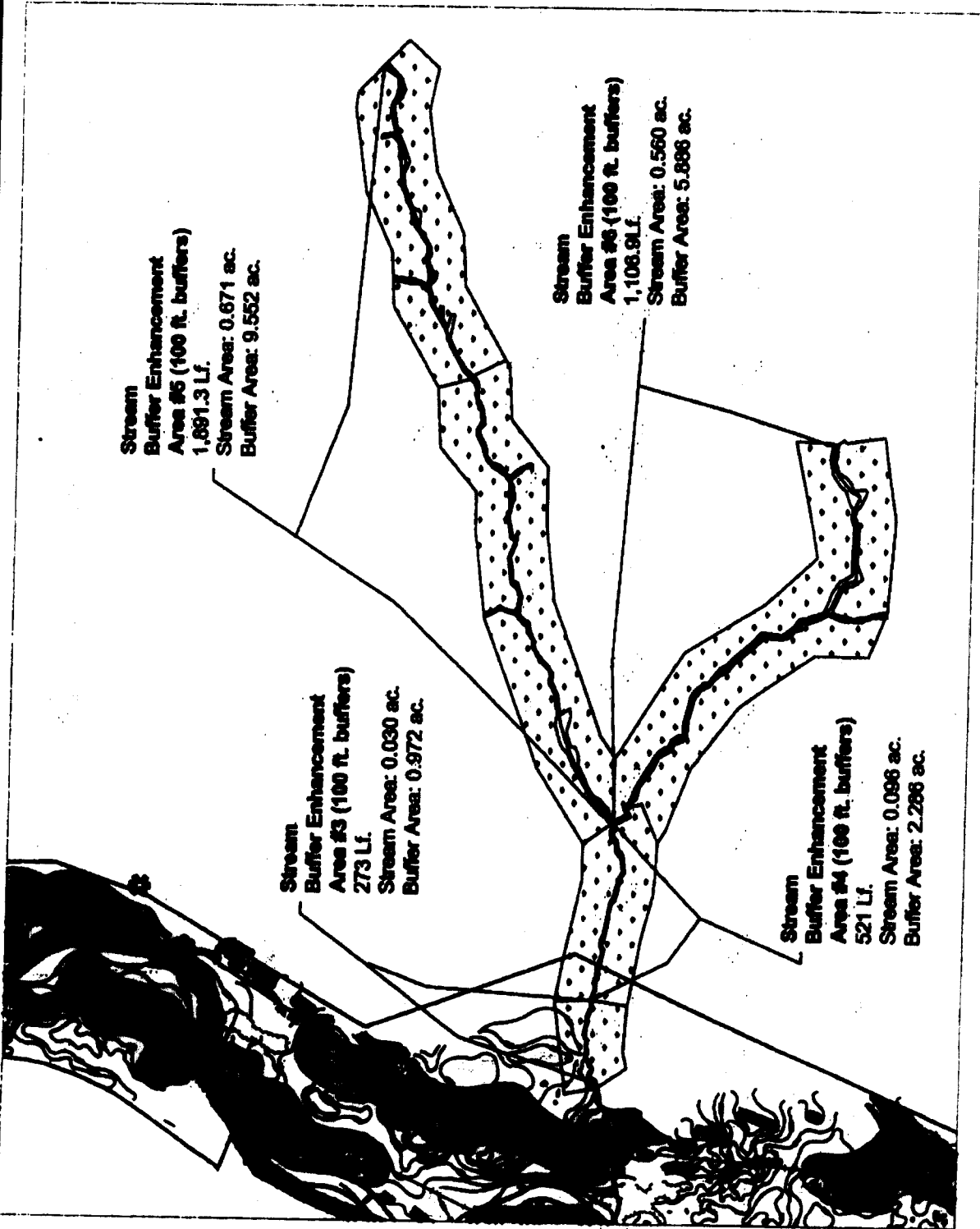
Post Office Box 2744  
Greenville, SC 29609  
Phone (803) 271-2248  
Fax (803) 271-2222

DESIGNED BY:	JPG
DATE:	1/10/07
EPC PROJECT NO.:	08141

USACE P/N:

**Northern Mit. Areas**  
Mountain Park Course  
C&S Communities Inc.  
Greenville County

**SHEET NO.**  
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of  
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OF



**ENVIRONMENTAL PERMITTING CONSULTANTS, INC.**

**GRAPHIC SCALE**  
 1 inch = 400 feet

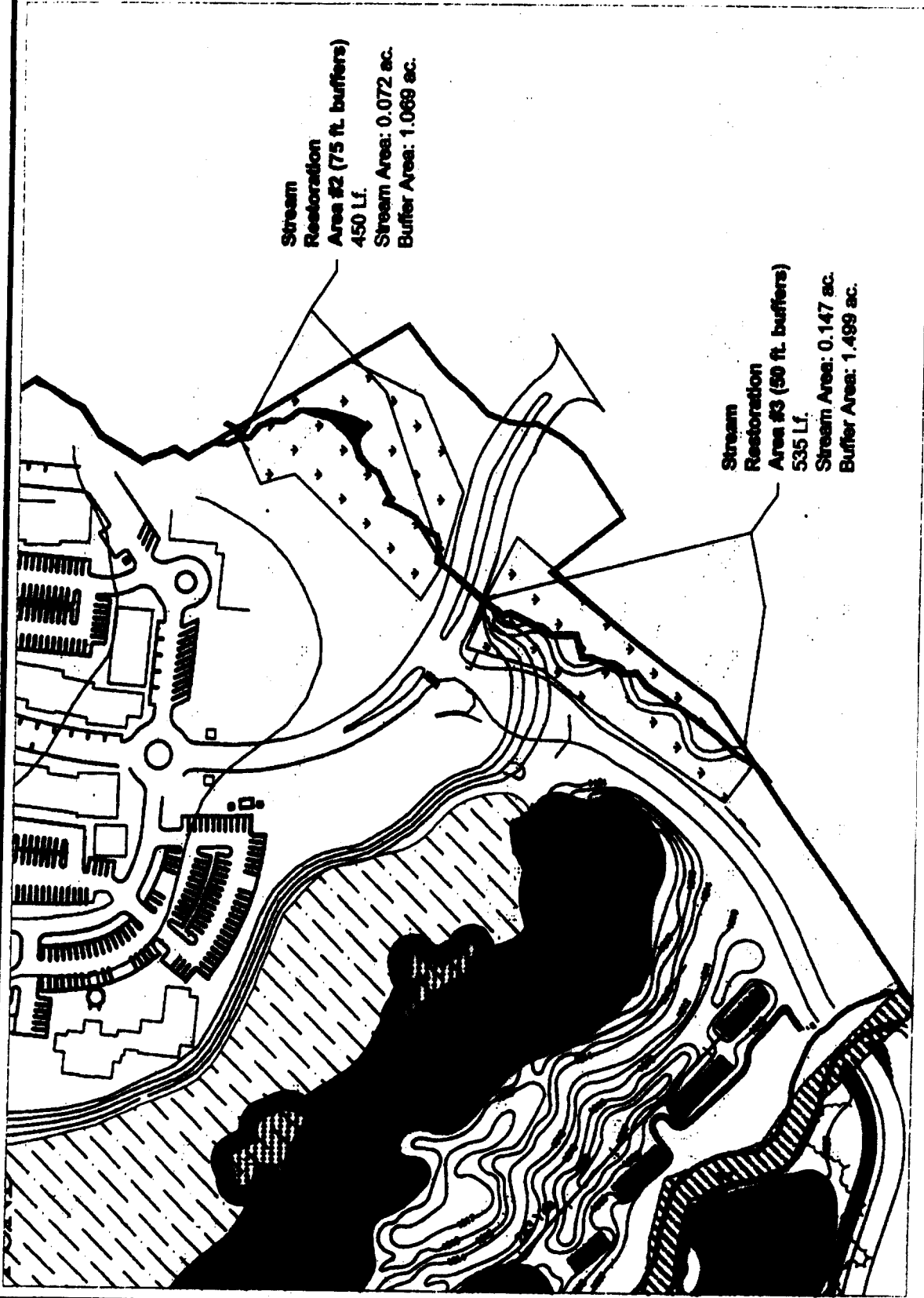
Project No.	2007-1312-6J
Client	Mountain Park Course
Date	July 13, 2007
Scale	1" = 400'
Product No.	00141

**Mountain Park Course**  
 2007-1312-6J  
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**Eastern Mit. Areas**  
 Mountain Park Course  
 Cliffs Communities Inc.  
 Greenville County

**SHEET NO.**  
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USACE PIN:



Stream Restoration  
 Area #2 (75 ft. buffers)  
 450 LF.  
 Stream Area: 0.072 ac.  
 Buffer Area: 1.069 ac.

Stream Restoration  
 Area #3 (50 ft. buffers)  
 535 LF.  
 Stream Area: 0.147 ac.  
 Buffer Area: 1.499 ac.

**ENVIRONMENTAL PERMITTING CONSULTANTS, INC.**

**GRAPHIC SCALE**  
 1 inch = 200 feet

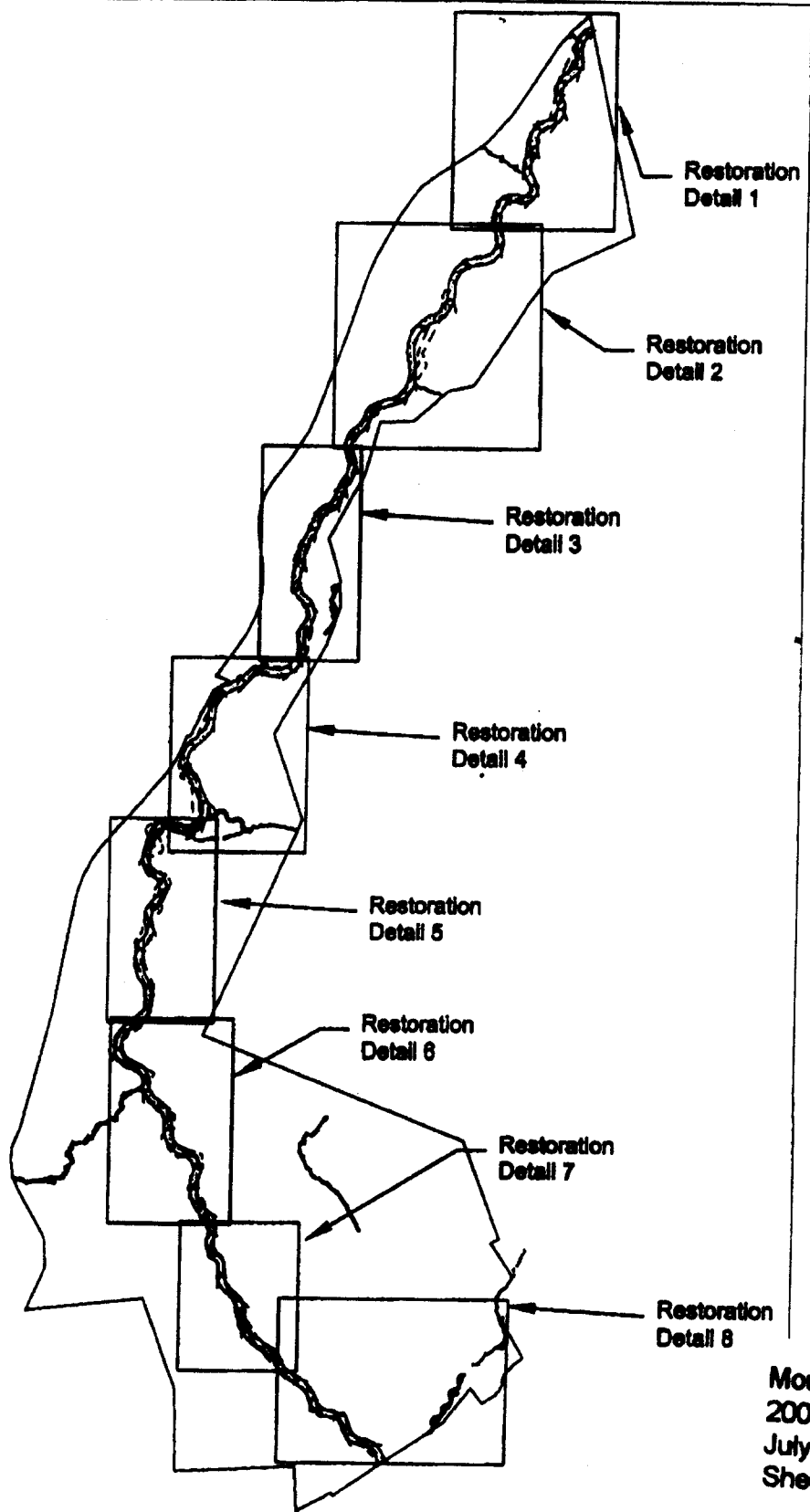
Prepared By:	DATE:
Checked By:	DATE:
Project No. 2007-1312-6J	EPC PROJECT NO. 07141

Mountain Park Course  
 2007-1312-6J  
 July 13, 2007  
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**Southern Mit. Areas**  
 Mountain Park Course  
 C&S Communities Inc.  
 Greenville County

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Mountain Park Course  
 2007-1312-6J  
 July 13, 2007  
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**ENVIRONMENTAL  
 PERMITTING  
 CONSULTANTS, INC.**

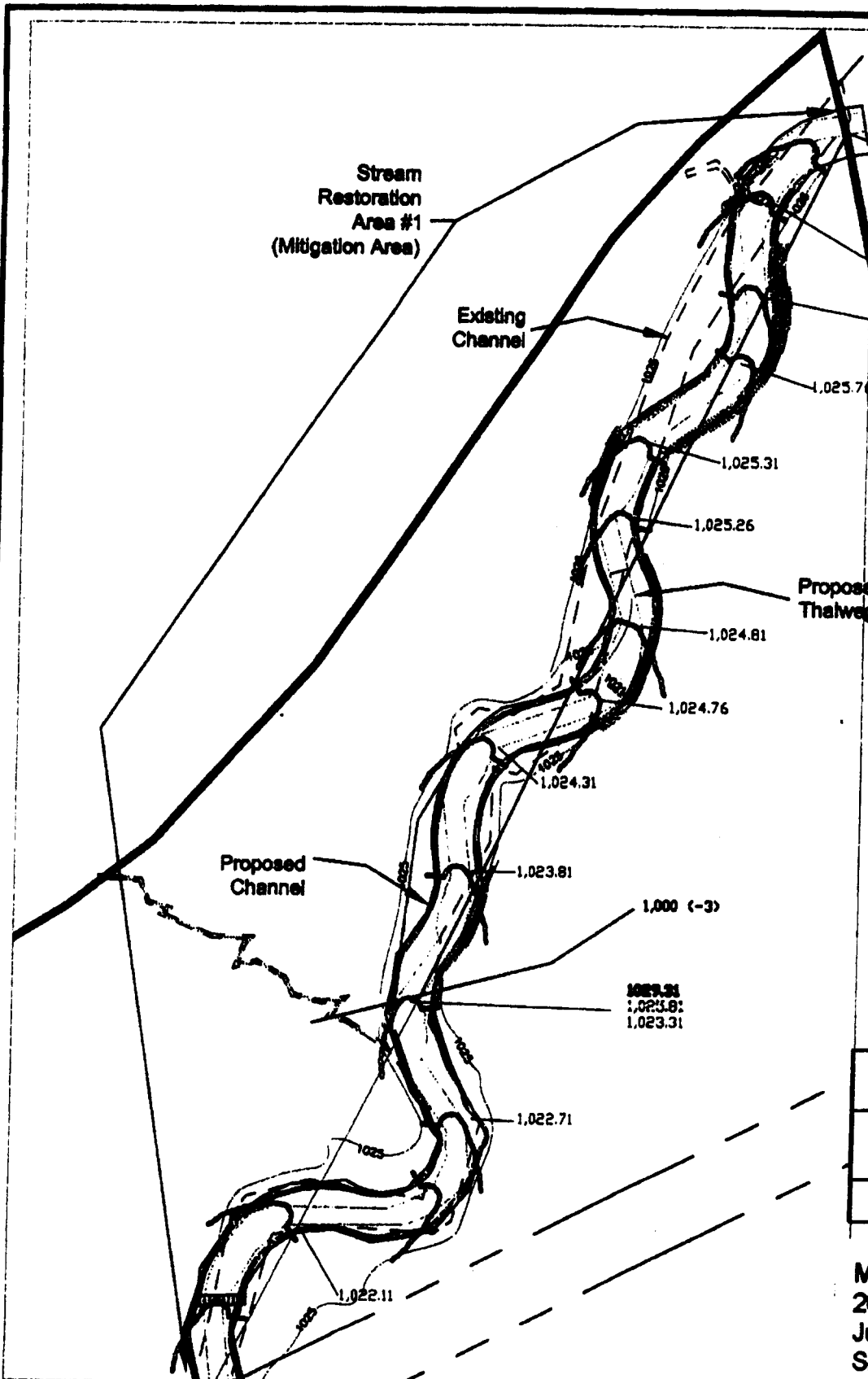
**GRAPHIC SCALE**

1 inch = 1,100 feet

Post Office Box 2944 Greenville, SC 29602 Phone: (252) 571-2249 Fax: (252) 571-2299	DRAWN BY: <b>RPB</b> DATE: <b>1/10/07</b> RPB PROJECT NO.: <b>00141</b>
--	---

**Restoration Reaches Overview**  
 Mountain Park Course  
 Cliffs Communities Inc.  
 Greenville County  
 USACE P/N:

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	Cross Vane
	J-Hook
	Rock Toe

Mountain Park Course  
 2007-1312-6J  
 July 13, 2007  
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**ENVIRONMENTAL  
 PERMITTING  
 CONSULTANTS, INC.**

**GRAPHIC SCALE**

1 inch = 100 feet

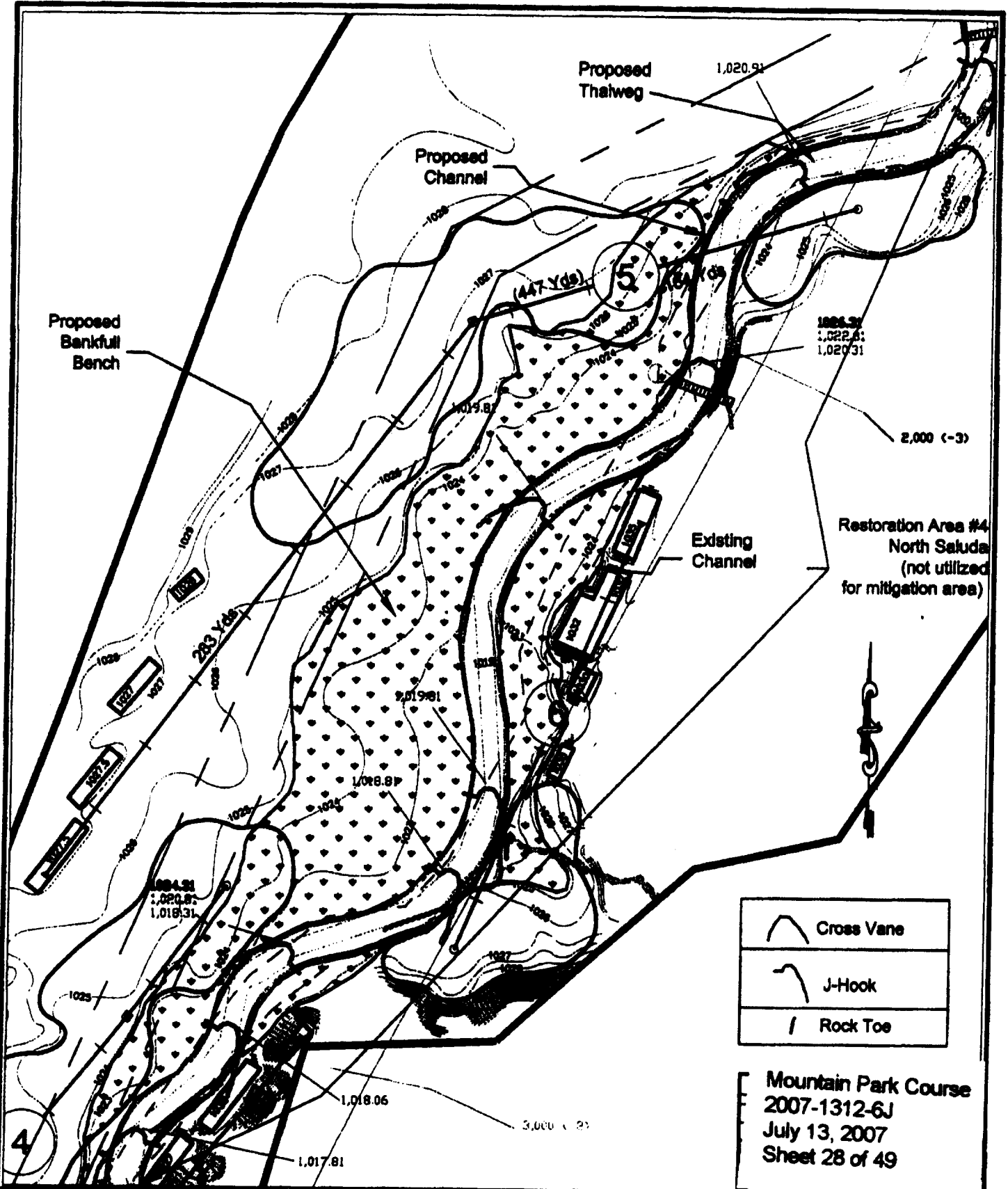
Post Office Box 2744 Greenville, SC 29603 Phone: (864) 271-2040 Fax: (864) 271-2020	DRAWN BY: <u>SPB</u> DATE: <u>1/10/07</u> SPC PROJECT NO.: <u>00491</u>
--	---

**Restoration Detail 1**  
 Mountain Park Course  
 Cliffs Communities Inc.  
 Greenville County

USACE PN:

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OF



	Cross Vane
	J-Hook
	Rock Toe

**Mountain Park Course**  
 2007-1312-6J  
 July 13, 2007  
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**ENVIRONMENTAL PERMITTING CONSULTANTS, INC.**

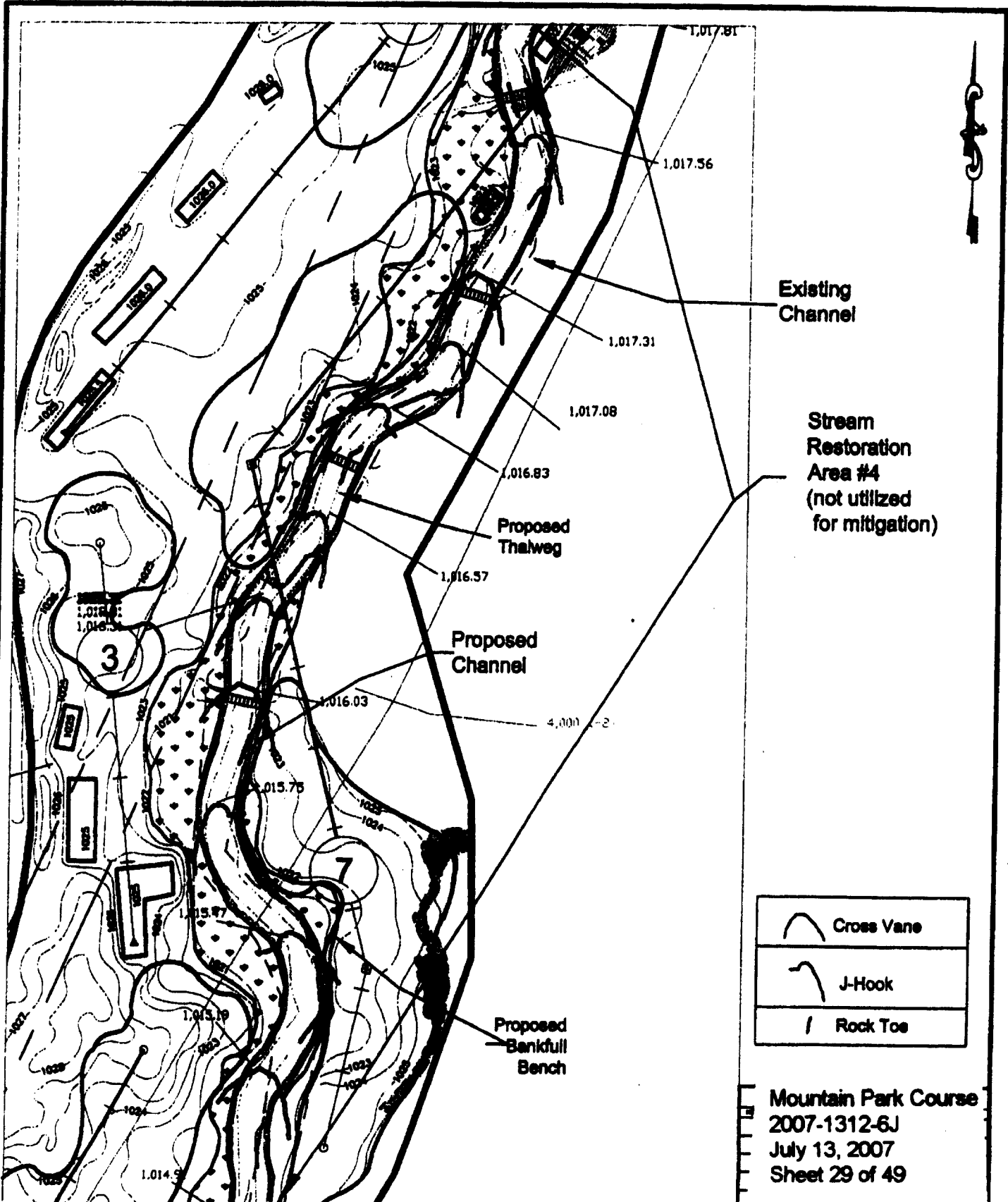
**GRAPHIC SCALE**

1 inch = 100 feet

Post Office Box 2044 Greenville, SC 29602 Phone: (803) 271-3349 Fax: (803) 232-0282	Drawn by: <b>SPB</b> Date: <b>1/10/07</b> EPC PROJECT NO.: <b>0941</b>
--	--

**Restoration Detail 2**  
 Mountain Park Course  
 Cliffs Communities Inc.  
 Greenville County  
 USACE P/N:

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Existing Channel

Stream Restoration Area #4 (not utilized for mitigation)

Proposed Thalweg

Proposed Channel

Proposed Bankfull Bench

	Cross Vane
	J-Hook
	Rock Toe

Mountain Park Course  
2007-1312-6J  
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**ENVIRONMENTAL PERMITTING CONSULTANTS, INC.**

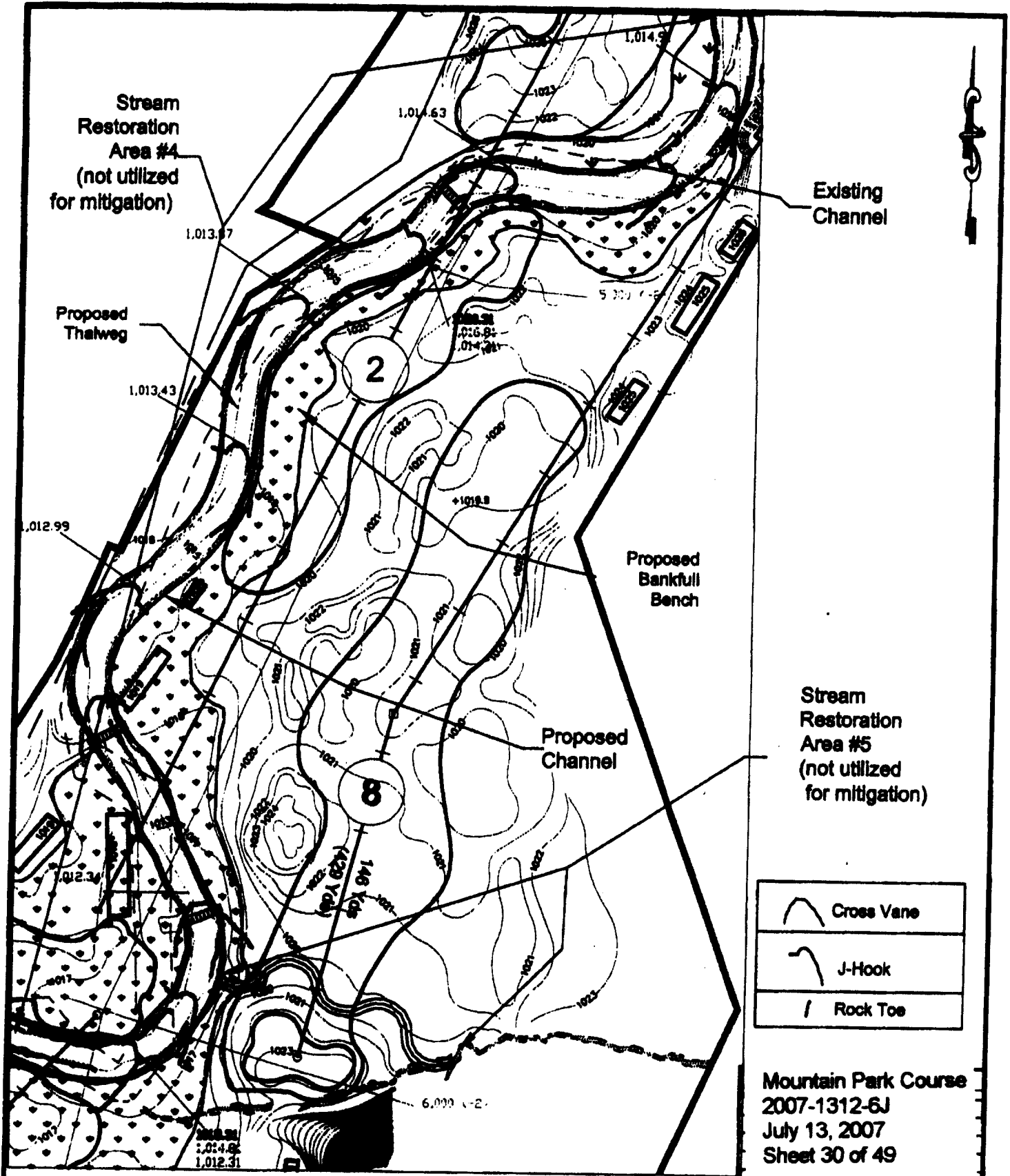
**GRAPHIC SCALE**  
1 inch = 100 feet




Post Office Box 2764 Greenville, SC 29602 Phone (803) 271-8888 Fax (803) 235-4888	OWNER: CFI DATE: 4/2007 EPC PROJECT NO.: 00141	WFO 4/2007
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**Restoration Detail 3**  
Mountain Park Course  
CFI's Communities Inc.  
Greenville County  
USACE P/N:

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of  
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OF



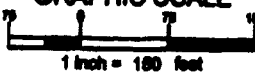


	Cross Vane
	J-Hook
	Rock Toe

Mountain Park Course  
 2007-1312-6J  
 July 13, 2007  
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**ENVIRONMENTAL  
 PERMITTING  
 CONSULTANTS, INC.**

**GRAPHIC SCALE**

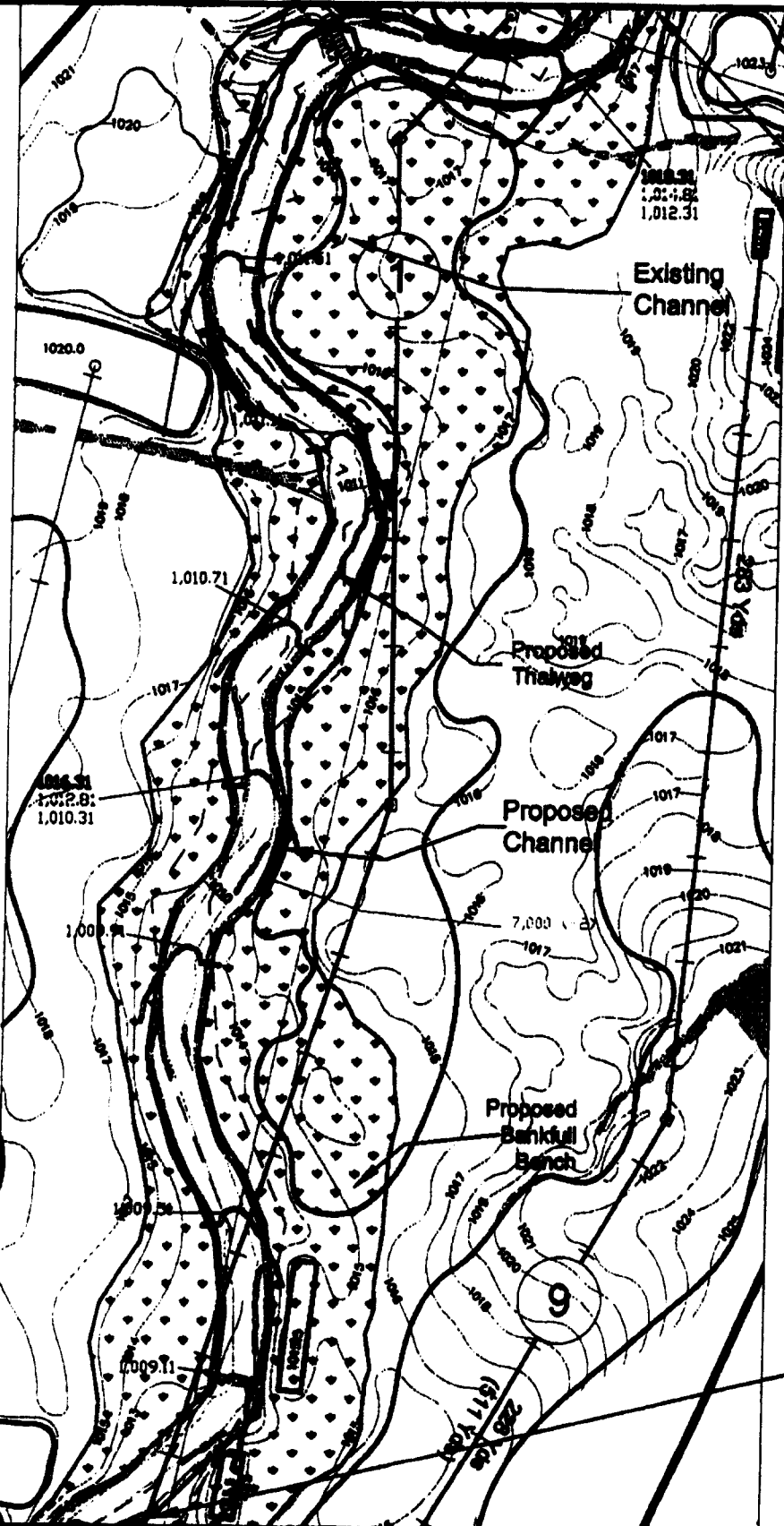


1 inch = 150 feet




Post Office Box 2744 Greenville, SC 29608 Phone: (864) 871-0949 Fax: (864) 871-0999	DESIGNED BY: NPG DATE: 1/10/07 SFC PROJECT NO.: 20071
--	---

**Restoration Detail 4**  
 Mountain Park Course  
 CM's Communities Inc.  
 Greenville County  
 USACE P/N:

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Stream Restoration Area #4  
(not utilized for mitigation)

	Cross Vane
	J-Hook
	Rock Toe

Mountain Park Course  
2007-1312-6J  
July 13, 2007  
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**ENVIRONMENTAL PERMITTING CONSULTANTS, INC.**

**GRAPHIC SCALE**  
1 inch = 150 feet

Field Office Box 2764 Greenville, SC 29602 Phone: (864) 571-0244 Fax: (864) 571-0244	DRAWN BY: <u>RPB</u> DATE: <u>1/18/07</u> EPC PROJECT NO.: <u>0911</u>
---	--

**Restoration Detail 5**  
Mountain Park Course  
Cliffs Communities Inc.  
Greenville County  
USACE P/N: \_\_\_\_\_

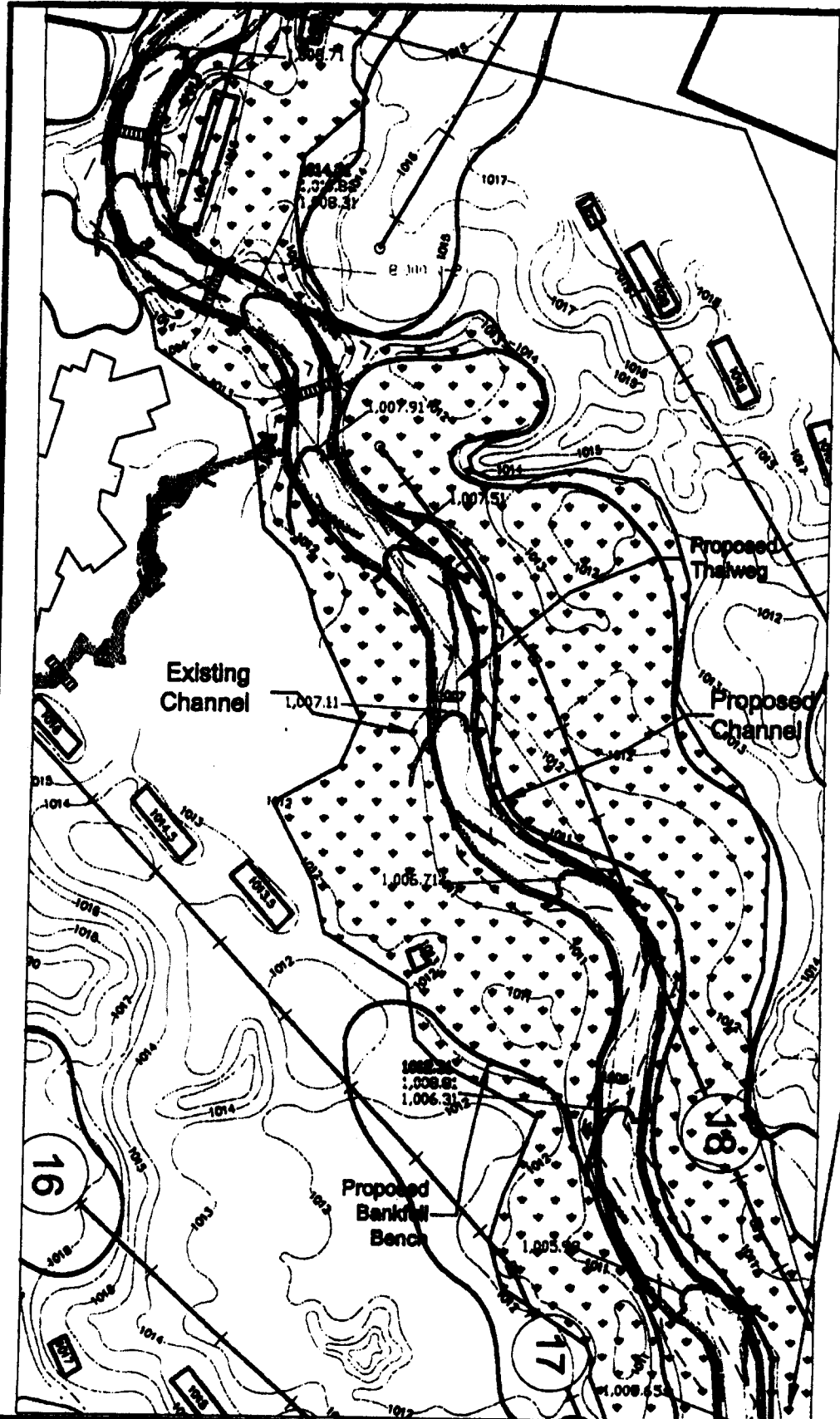
SHEET NO.  
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OF



Stream  
Restoration  
Area #4  
(not utilized  
for mitigation)

	Cross Vane
	J-Hook
	Rock Toe

Mountain Park Course  
2007-1312-6J  
July 13, 2007  
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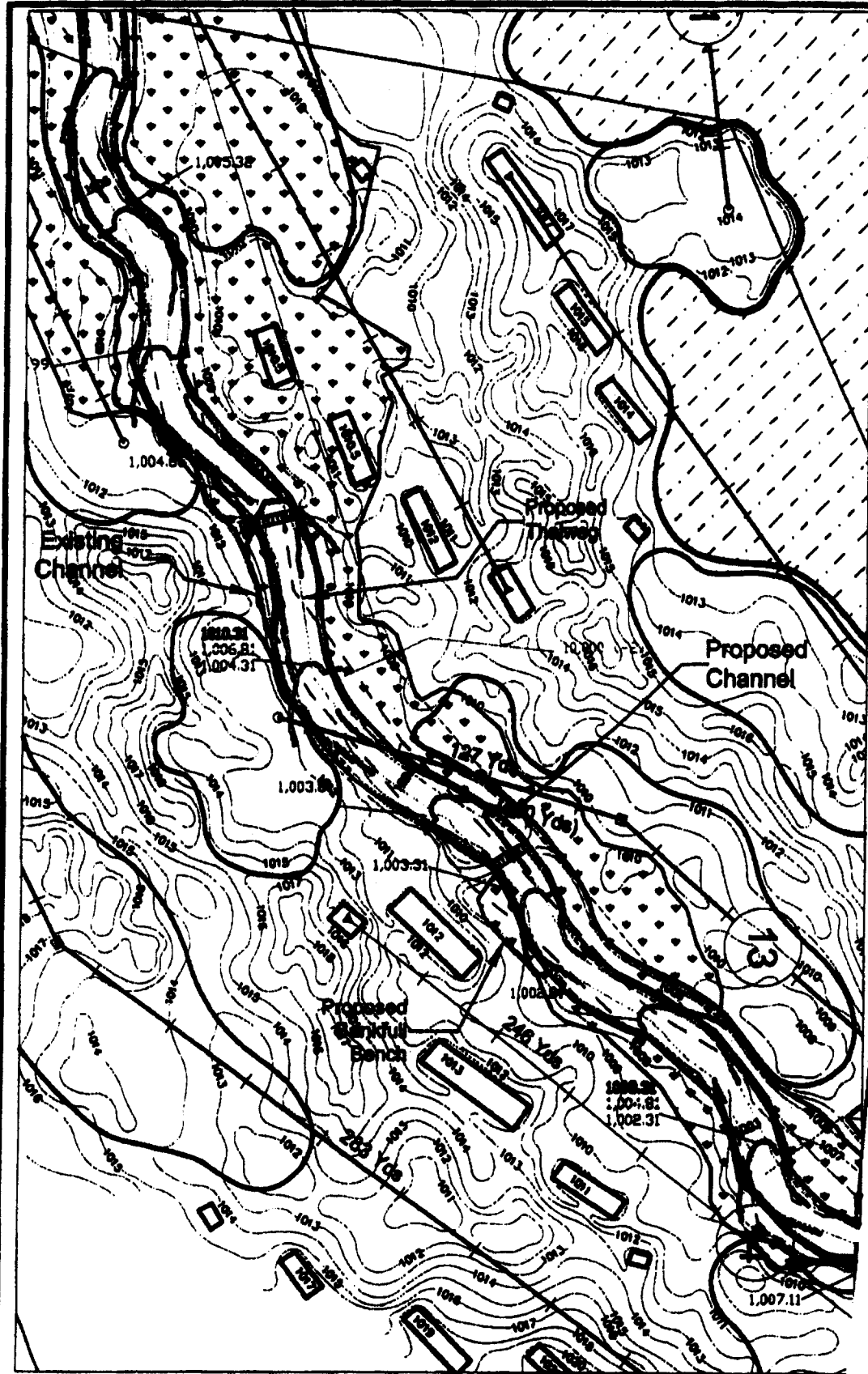
**ENVIRONMENTAL  
PERMITTING  
CONSULTANTS, INC.**

**GRAPHIC SCALE**  
1 inch = 100 feet




Post Office Box 2744 Greenville, SC 29602 Phone: (803) 571-0000 Fax: (803) 571-0002	DRAWN BY: <b>SPG</b> DATE: <b>1/10/07</b> BPC PROJECT NO.: <b>00141</b>
--	---

**Restoration Detail 6**  
Mountain Park Course  
Civic Communities Inc.  
Greenville County  
USACE P/N:

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Stream Restoration Area #4 (not utilized for mitigation)

	Cross Vane
	J-Hook
	Rock Toe

Mountain Park Course  
 2007-1312-6J  
 July 13, 2007  
 Sheet 33 of 49

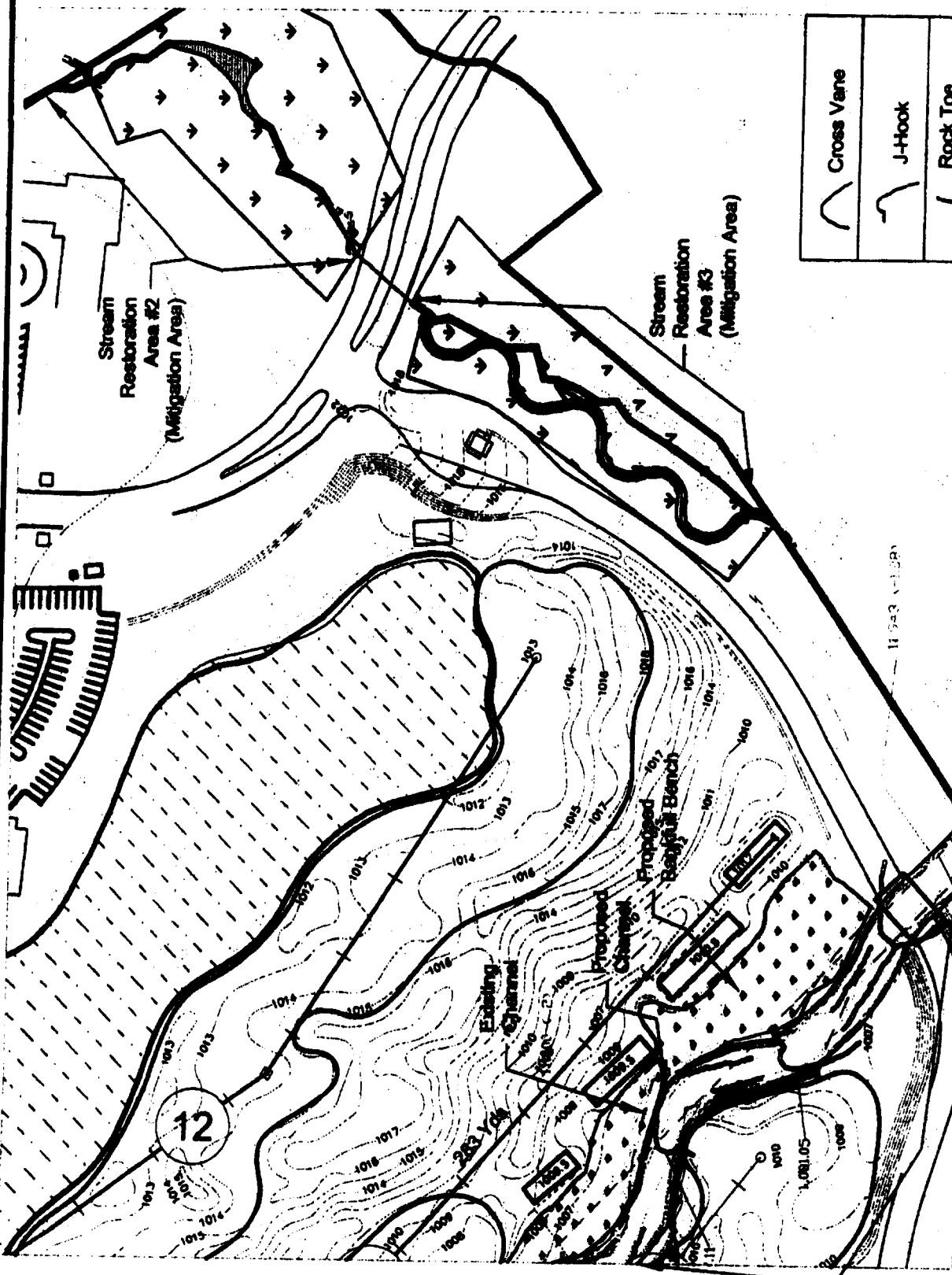
**ENVIRONMENTAL PERMITTING CONSULTANTS, INC.**

**GRAPHIC SCALE**  
  
 1 inch = 100 feet

Post Office Box 8744 Greenville, SC 29616 Phone: (864) 971-8888 Fax: (864) 292-8888	CREATED BY: NFD DATE: 6/18/07 EPC PROJECT NO.: 08141
--	--

**Restoration Detail 7**  
 Mountain Park Course  
 Cliffs Communities Inc.  
 Greenville County  
 USACE P/N: \_\_\_\_\_

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 OF \_\_\_\_\_



	Cross Vane
	J-Hook
	Rock Toe

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Restoration Detail 8  
Mountain Park Course  
Cliffs Communities Inc.  
Greenville County  
USACE PIN.

Mountain Park Course  
2007-1312-6J  
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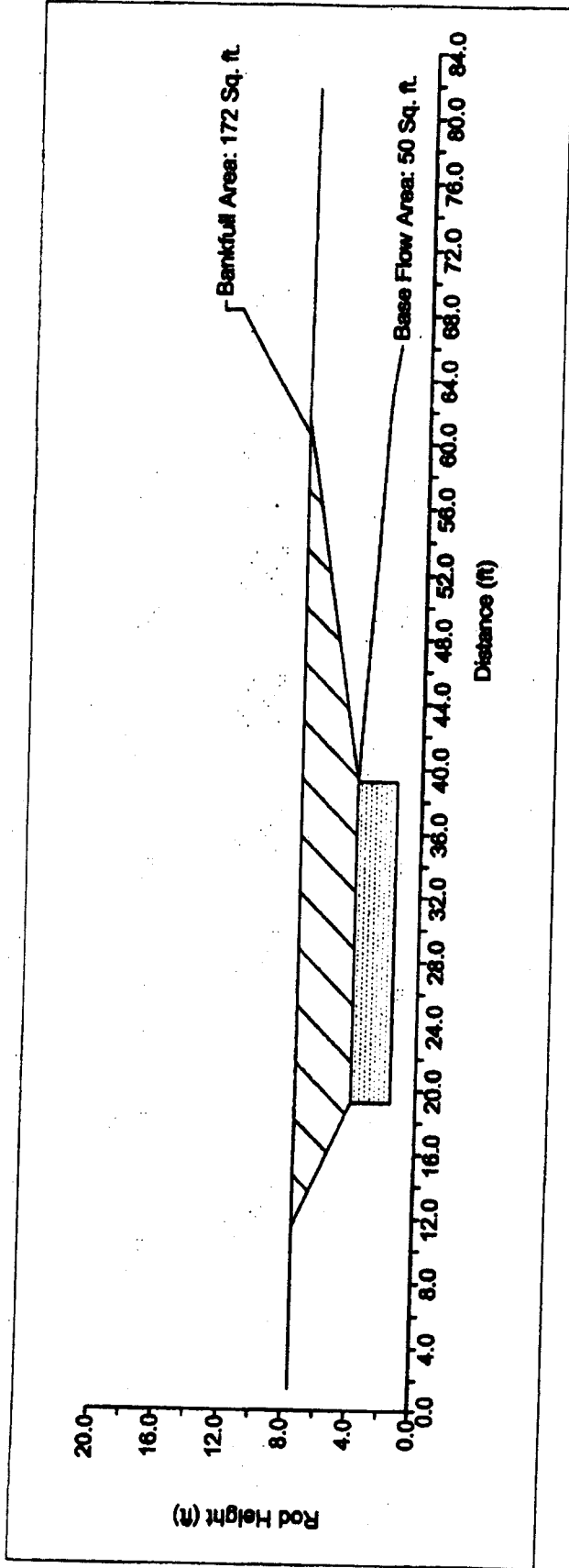
GRAPHIC SCALE  
1 inch = 100 feet

Project No. 07-004	DATE: 07/13/07
Revision No. 00	DATE: 07/13/07
Drawn By: [Name]	Checked By: [Name]
Scale: 1" = 100'	Scale: 1" = 100'
Project No. 07-004	Project No. 07-004

Restoration Area #4  
North Saluda  
(not utilized  
for mitigation area)

**ENVIRONMENTAL  
PERMITTING  
CONSULTANTS, INC.**

# North Saluda- Proposed Riffle Dimension



Bankfull Width (ft): 50  
 Mean Depth (ft): 3.43  
 Maximum Depth (ft): 5.95  
 Width/Depth Ratio : 14.6  
 Hydraulic Radius (ft): 3.06  
 Wetted Perimeter (ft): 55.58  
 Bank Height Ratio: 1.0

**GRAPHIC SCALE**

1 inch = 20 feet

Project No. 1312-6J	DATE: 7/13/07
Client: Mountain Park Course	BY: [Signature]
Project: 1312-6J	DATE: 7/13/07
Scale: 1" = 20'-0"	PROJECT NO.: 1312-6J

**ENVIRONMENTAL PERMITTING CONSULTANTS, INC.**

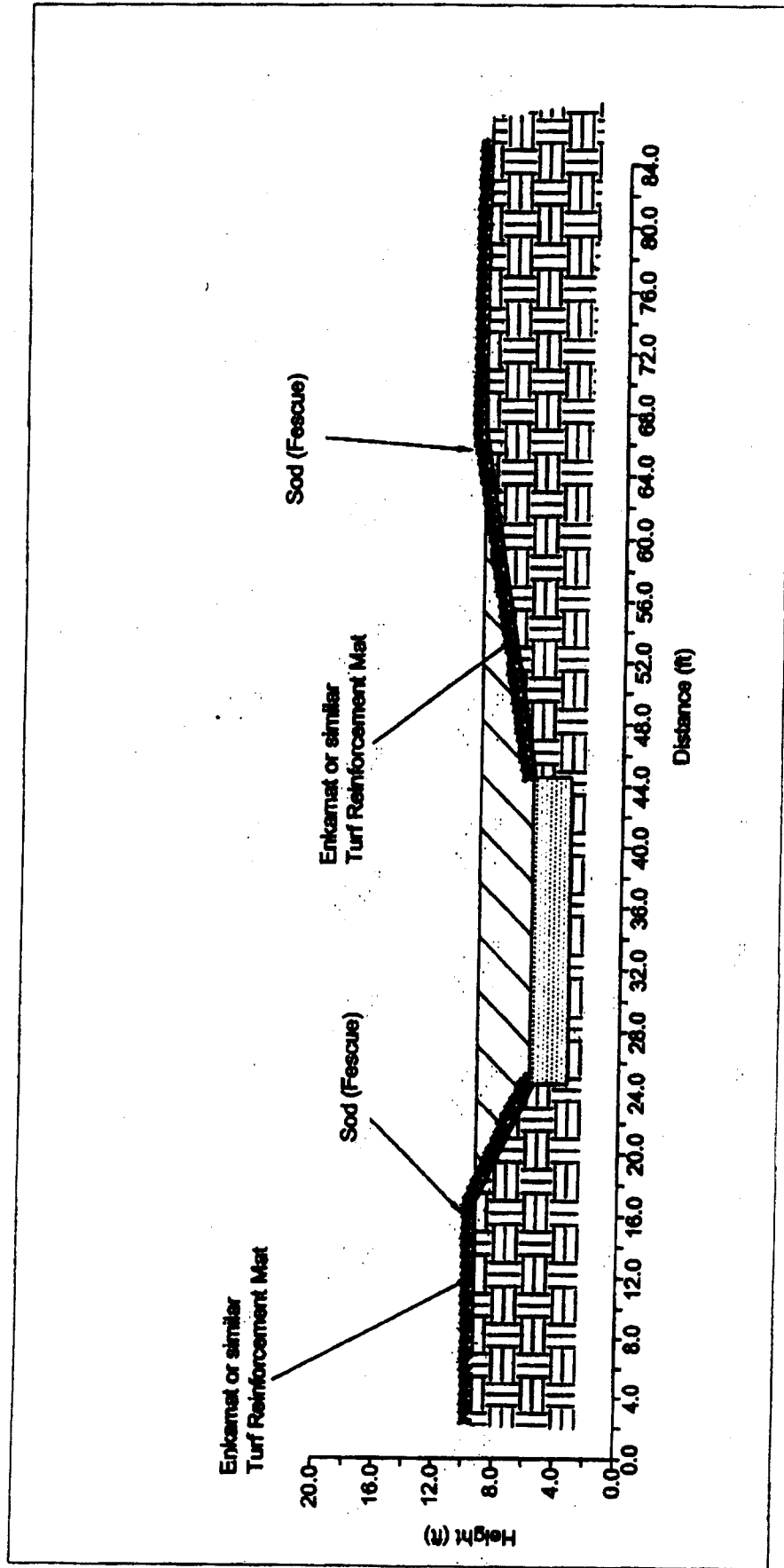
Mountain Park Course  
 2007-1312-6J  
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North Saluda Proposed Riffle  
 Mountain Park Course  
 Cliffs Communities Inc.  
 Greenville County

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USACE PIN:

# Typical Bank Stabilization Treatment



**GRAPHIC SCALE**

1 inch = 10 feet

PROJECT NO.	DATE
DRAWN BY:	SCALE:
CHECKED BY:	DATE:
PROJECT NO. 2007-1312-6J	DATE: 7/13/2007
PROJECT NAME: MOUNTAIN PARK COURSE	PROJECT NO.: 2007-1312-6J
PROJECT LOCATION: MOUNTAIN PARK COURSE	PROJECT NO.: 2007-1312-6J

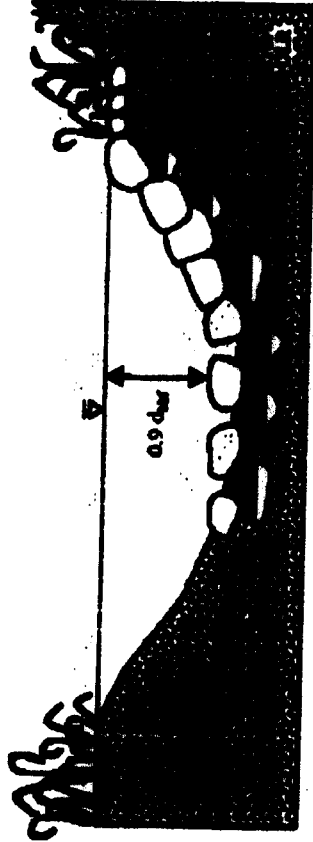
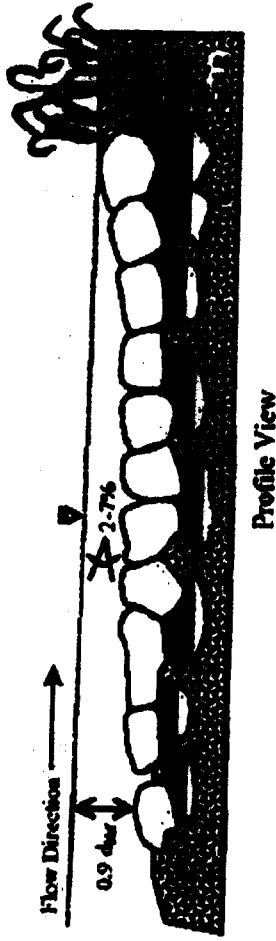
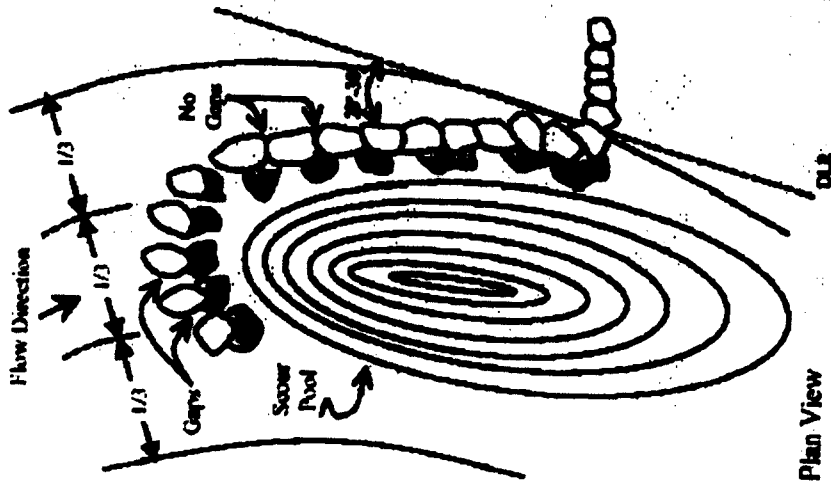
**ENVIRONMENTAL PERMITTING CONSULTANTS, INC.**

Mountain Park Course  
2007-1312-6J  
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North Saluda Typical Bank Detail  
Mountain Park Course  
Cliffs Communities Inc.  
Greenville County

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USACE P/N:



Height of Vane Tail	4.5 ft.	Min Protrusion Height	0.46 ft.
Plan view Vane Angle	20	Min Footing Depth	1.8 ft.
Vane Length	54.2 ft.	Layers of Footing Stones	1
Minimum Rock Size	2.4 ft.	Vane Slope	8.30%

Source: Rosgen, David L., 2001, ASCE Conference

**ENVIRONMENTAL PERMITTING CONSULTANTS, INC.**

GRAPHIC SCALE



Post Office Box 204  
 Greenwood, AZ 85304  
 PHONE (602) 271-5200  
 FAX (602) 251-5200  
 EPC PRODUCT NO.: 08141

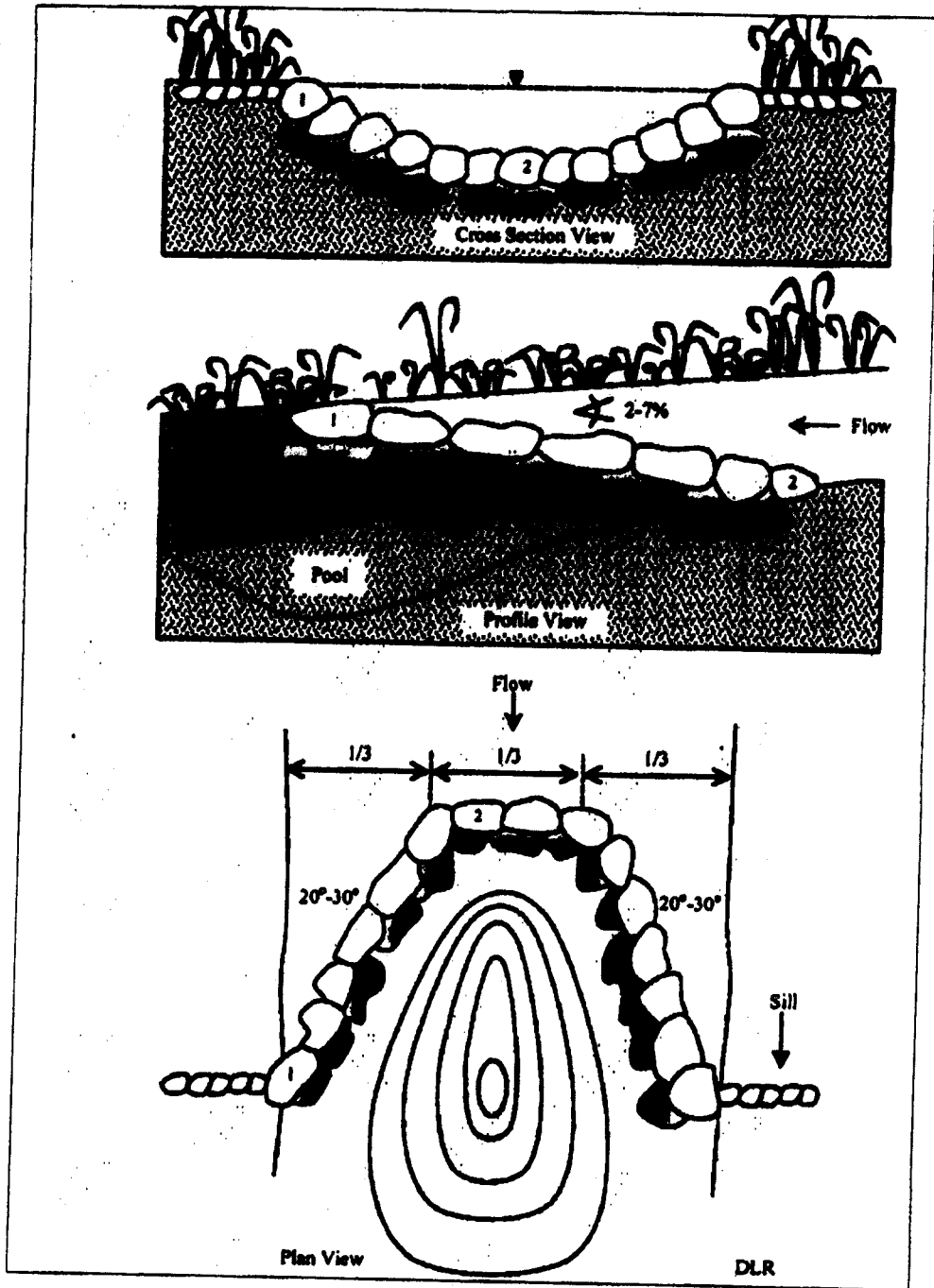
Mountain Park Course  
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North Saluda J-Hook Detail  
 Mountain Park Course  
 Cliffs Communities Inc.  
 Greenville County

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USACE PIN:





Height of Vane Tail	4.5 ft.	Min Protrusion Height	0.45 ft.
Plan view Vane Angle	20	Min Footing Depth	1.8 ft.
Vane Length	54.2 ft.	Layers of Footing Stones	1
Minimum Rock Size	2.4 ft.	Vane Slope	8.30%

Mountain Park Course  
 2007-1312-6J  
 July 13, 2007  
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Source: Rosgen, David L. 2001. ASCE Conference

**ENVIRONMENTAL  
 PERMITTING  
 CONSULTANTS, INC.**

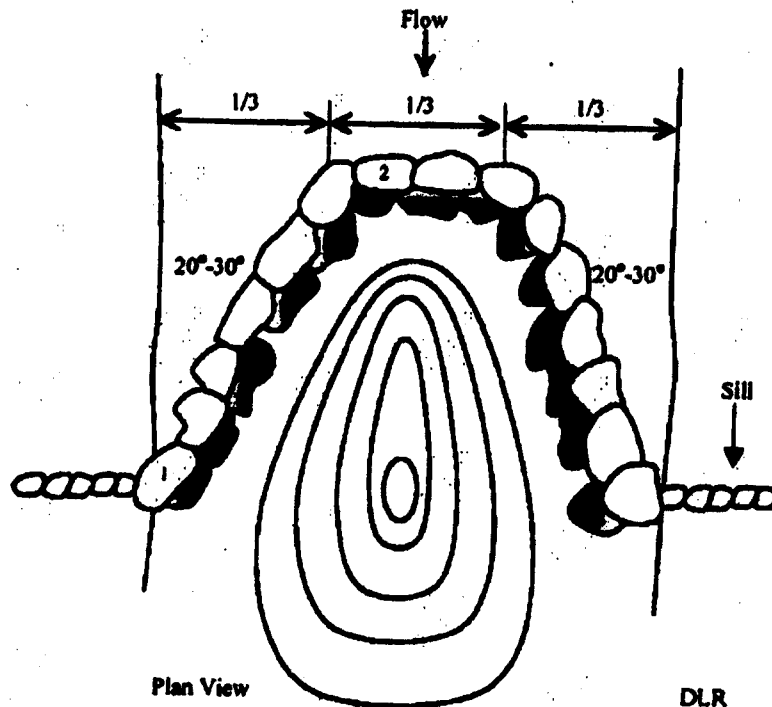
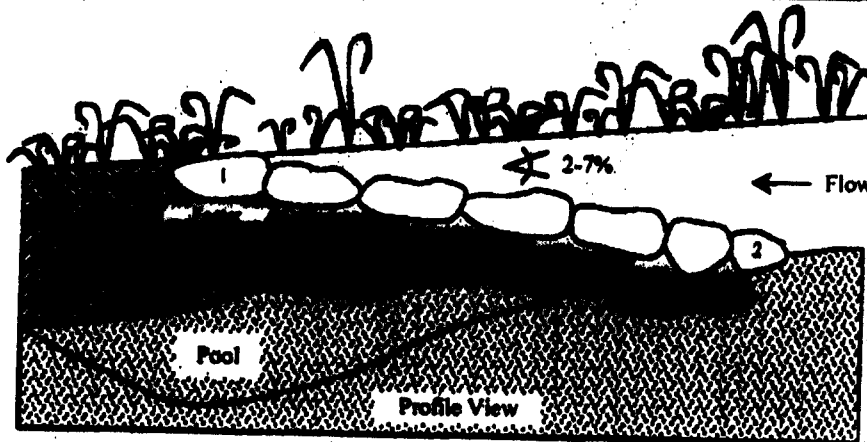
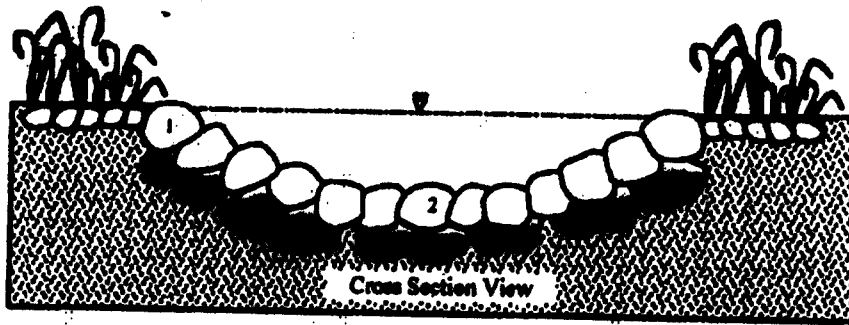
**GRAPHIC SCALE**  
 1 inch = 1 foot

Post Office Box 8744  
 Greenville, SC 29609  
 Phone: (864) 271-8848  
 Fax: (864) 271-8897

DESIGNED BY: JPB  
 DATE: 1/10/07  
 EPC PROJECT NO.: 0044

**North Saluda - Cross Vane Detail**  
 Mountain Park Course  
 Cliffs Communities Inc.  
 Greenville County  
 USACE P/N:

**SHEET NO.**  
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 of  
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 OF



DLR

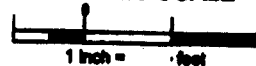
Height of Vane Tail	0.55	Min Protrusion Height	0.06 ft.
Plan view Vane Angle	20	Min Footing Depth	0
Vane Length	8 ft.	Layers of Footing Stones	1
Minimum Rock Size	1.3 ft.	Vane Slope	6.90%

Mountain Park Course  
2007-1312-6J  
July 13, 2007  
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Source: Rogers, David L. 2001. ASCE Conference

**ENVIRONMENTAL  
PERMITTING  
CONSULTANTS, INC.**

GRAPHIC SCALE



Post Office Box 5744  
Greenville, SC 29608  
Phone (803) 871-8944  
Fax (803) 871-8944

DRAWN BY: HPG  
DATE: 7/13/07  
EPC PROJECT NO.: 00141

Hole 8 Trib - Cross Vane Detail

Mountain Park Course  
CRS Communities Inc.  
Greenville County

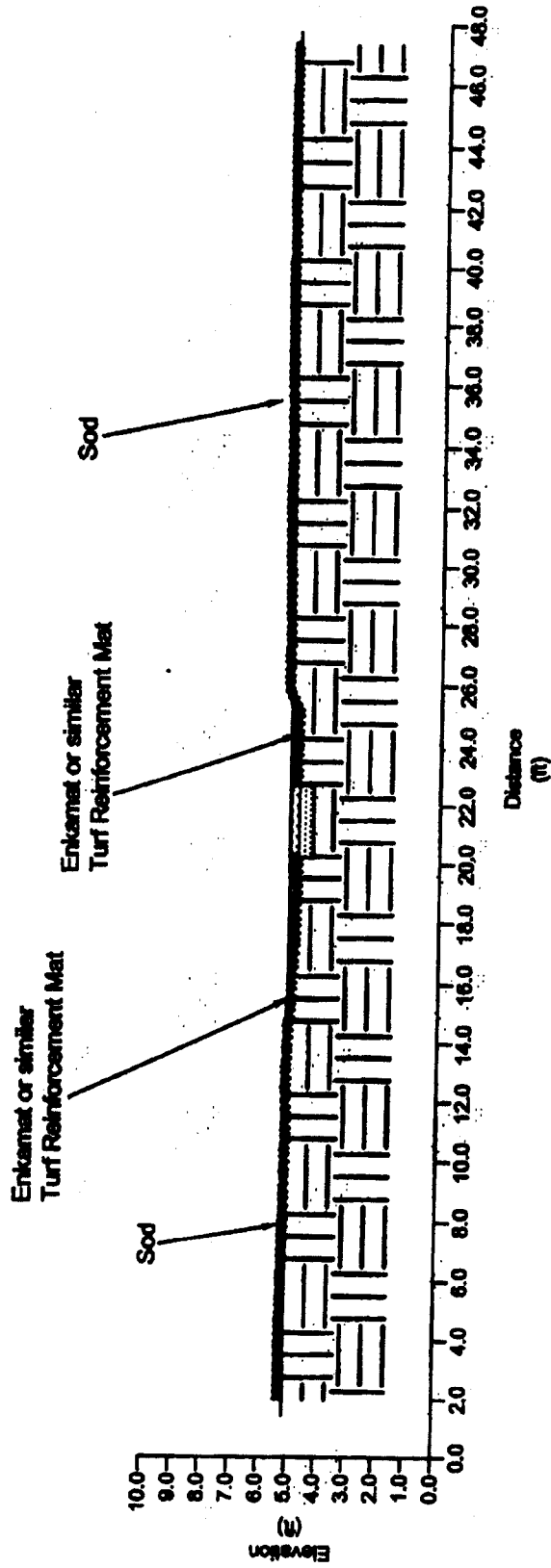
USACE PN:

SHEET NO.

Sheet 5  
of  
Appendix 6

OF

# Hole 8 - Typical Bank Stabilization Treatment



**SHEET NO.**  
Sheet 4  
of  
Appendix 6  
  
OF

**Hole 8 Trib - Typical Bank Detail**  
Mountain Park Course  
Callis Communities Inc.  
Greenville County  
  
USACE P/R

**Mountain Park Course**  
2007-1312-6J  
July 13, 2007  
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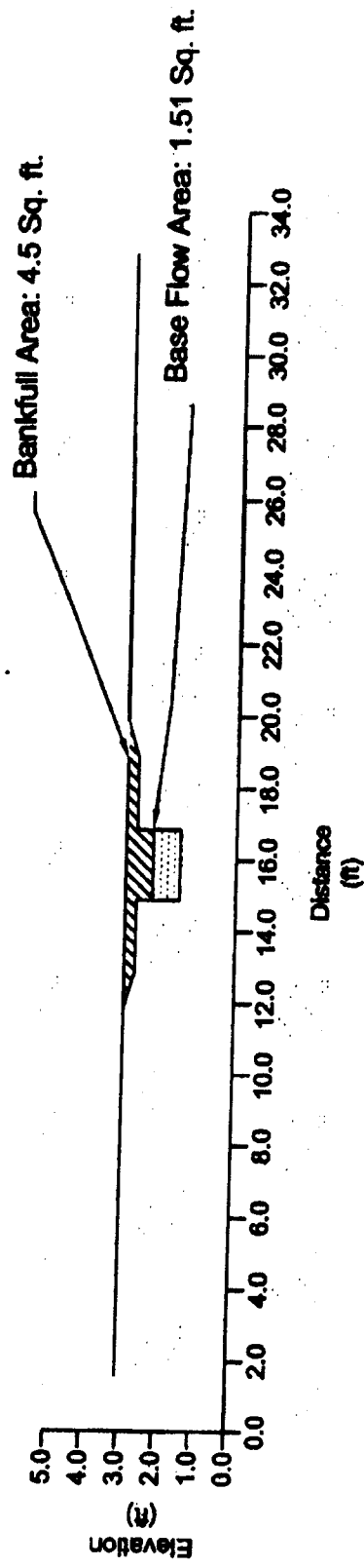
**GRAPHIC SCALE**

1 inch = 5 feet

Prep Office: 2007-1312-6J	DATE: 07/13/07	PROJECT NO.: 0041
Author: J. J. Smith	DATE: 07/13/07	PROJECT NO.: 0041
Checker: J. J. Smith	DATE: 07/13/07	PROJECT NO.: 0041
Printer: J. J. Smith	DATE: 07/13/07	PROJECT NO.: 0041

**ENVIRONMENTAL PERMITTING CONSULTANTS, INC.**

# Hole 8 Trib- Proposed Riffle Dimension



Bankfull Width (ft): 8.0  
 Mean Depth (ft): 0.56  
 Maximum Depth (ft): 1.5  
 Width/Depth Ratio : 14.25  
 Hydraulic Radius (ft): 0.43  
 Wetted Perimeter (ft): 10.47  
 Bank Height Ratio: 1.0

**ENVIRONMENTAL PERMITTING CONSULTANTS, INC.**

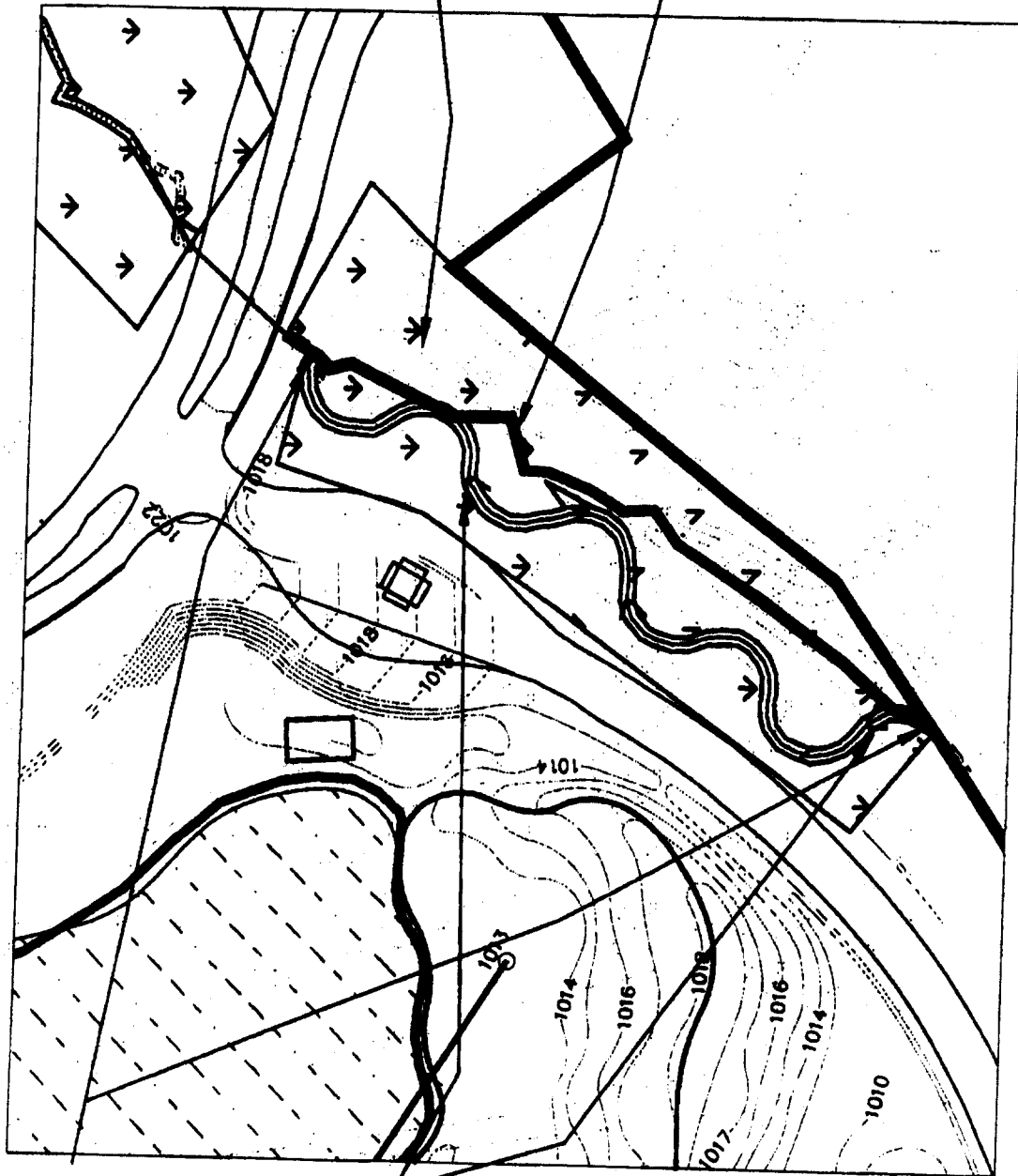
1 inch = 10 feet  
 GRAPHIC SCALE

Project: Hole 8 Trib - Proposed Riffle	DATE: 07/13/2007	BY: [Signature]
Client: Mountain Park Course	PROJECT NO.: 2007-1312-6J	SCALE: 1" = 10'
Address: Greenville, SC 29615	PHONE: (864) 274-1000	FAX: (864) 274-1000

Mountain Park Course  
 2007-1312-6J  
 July 13, 2007  
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USACE PIN:  
 Hole 8 Trib - Proposed Riffle  
 Mountain Park Course  
 Calfs Communities Inc.  
 Greenville County

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Proposed Restored Channel

Proposed Structures

Associated Riparian Buffer

Existing Channel

**ENVIRONMENTAL PERMITTING CONSULTANTS, INC.**

**GRAPHIC SCALE**  
 1 inch = 100 feet

Project No. 2007-1312-6J	Scale: 1" = 100'
Date: 7/13/07	Sheet No. 42 of 49
Project Name: Mountain Park Course	Project No. 2007-1312-6J
Client: Callis Communities Inc.	Project No. 2007-1312-6J
Project No. 2007-1312-6J	Project No. 2007-1312-6J

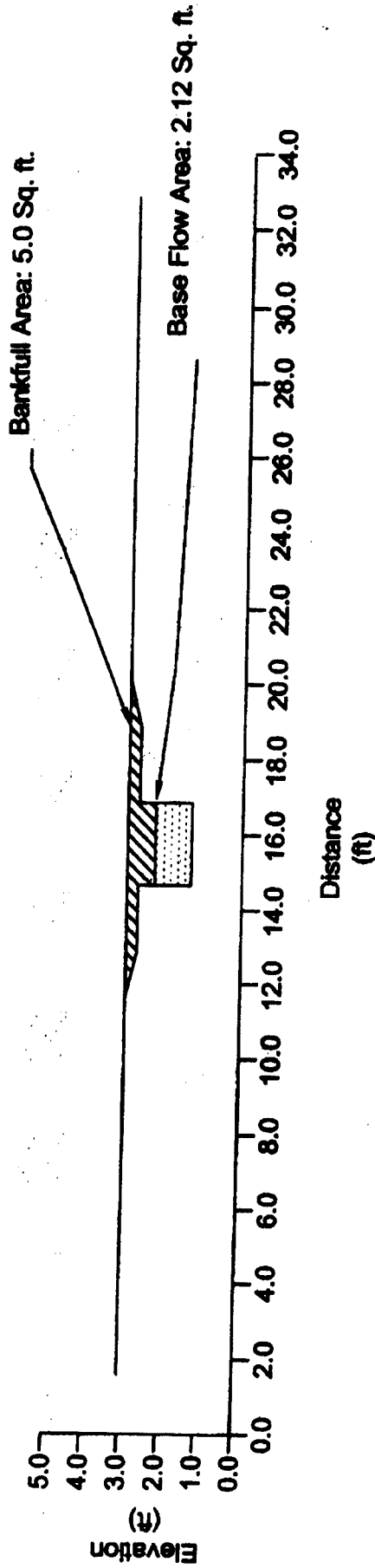
Mountain Park Course  
 2007-1312-6J  
 July 13, 2007  
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USACE PIN:  
 Mountain Park Course  
 Callis Communities Inc.  
 Greenville County

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Hwy 11 Trib Priority 1 - Overview

# Hwy 11 Trib Priority 1 Reach - Proposed Riffle Dimension



Bankfull Width (ft): 8.5  
 Mean Depth (ft): 0.59  
 Maximum Depth (ft): 1.8  
 Width/Depth Ratio : 14.36  
 Hydraulic Radius (ft): 0.42  
 Wetted Perimeter (ft): 11.7  
 Bank Height Ratio: 1.0

**ENVIRONMENTAL PERMITTING CONSULTANTS, INC.**

GRAPHIC SCALE  
 1 inch = 1 foot

Prep: Chris Lee, EPC  
 Checked: [blank]  
 Drawn: [blank]  
 Date: [blank]  
 Project: [blank]

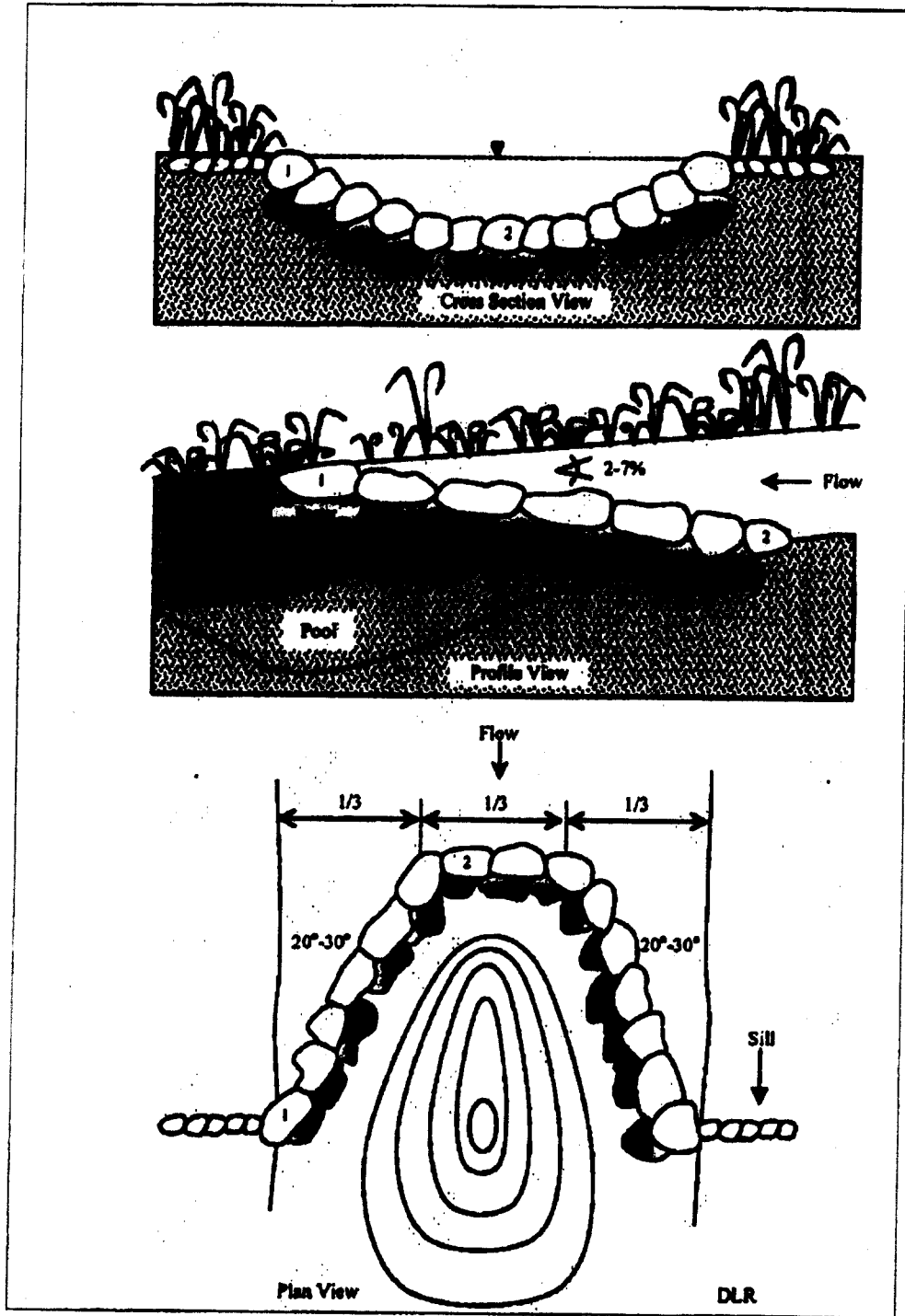
EPC PROJECT NO.: 09141

Mountain Park Course  
 2007-1312-6J  
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Hwy 11 Priority 1 - Proposed Riffle  
 Mountain Park Course  
 Ollis Communities Inc.  
 Greenville County

SHEET NO.  
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USACE P/N:



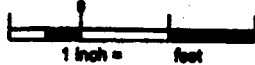
Source: Roegen, David L. 2001. ASCE Conference

Height of Vane Tail	0.55	Min Protrusion Height	0.06 ft.
Plan view Vane Angle	20	Min Footing Depth	0
Vane Length	8 ft.	Layers of Footing Stones	1
Minimum Rock Size	1.3 ft.	Vane Slope	6.90%

Mountain Park Course  
2007-1312-6J  
July 13, 2007  
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**ENVIRONMENTAL  
PERMITTING  
CONSULTANTS, INC.**

GRAPHIC SCALE



Plot Office Box 2544  
Greenville, SC 29602  
Phone (803) 571-0000  
Fax (803) 552-1000

DRAWN BY: JPB  
DATE: 1/18/07  
EPC PROJECT NO.: 00141

Hwy 11 Trib - Cross Vane Detail

Mountain Park Course  
Cliffs Communities Inc.  
Greenville County

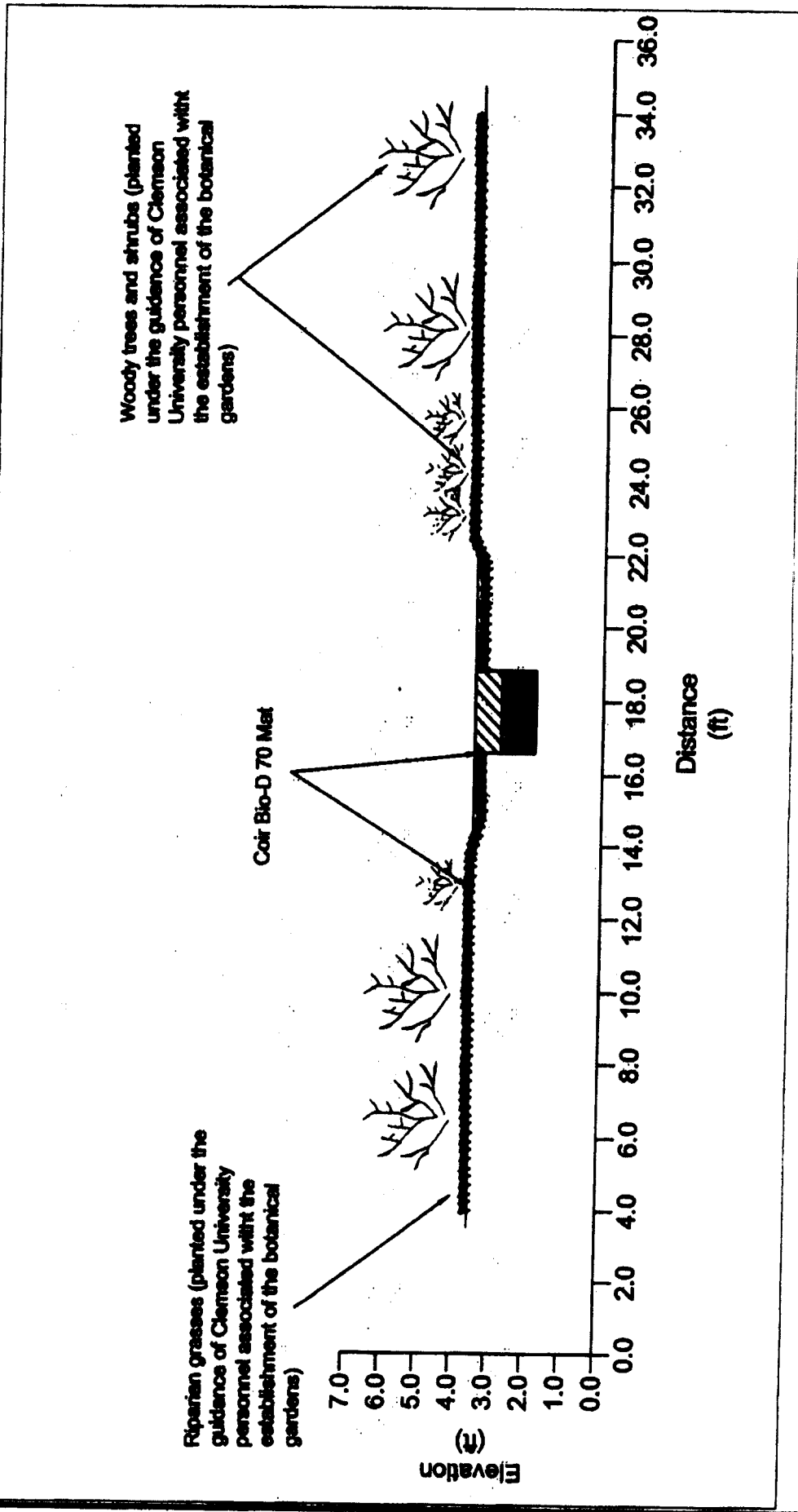
USACE P/N:

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# Hwy 11 Trib - Typical Bank Stabilization Treatment



**ENVIRONMENTAL PERMITTING CONSULTANTS, INC.**

Project: Hwy 11 Trib - Typical Bank Stabilization Treatment  
 Date: July 13, 2007  
 Scale: 1 inch = 10 feet

Prepared by: [Name]  
 Checked by: [Name]  
 Drawn by: [Name]

PROJECT NO.: 0441

Mountain Park Course  
 2007-1312-6J  
 July 13, 2007  
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Hwy 11 Trib - Typical Bank Detail  
 Mountain Park Course  
 Cliffs Communities Inc.  
 Greenville County

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 OF

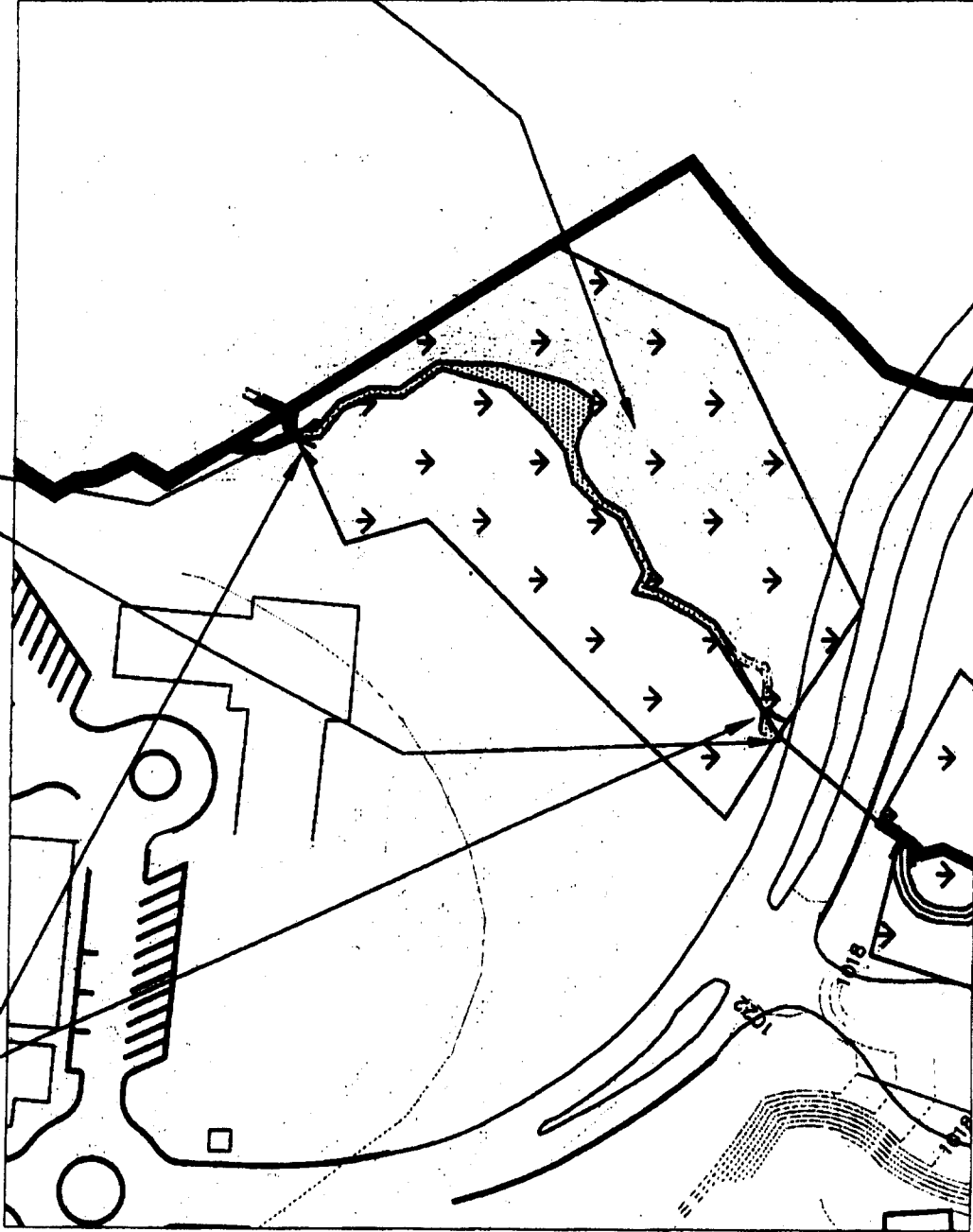
USACE PLAN



Proposed Restored Channel

Proposed Structures

Associated Riparian Buffer



**GRAPHIC SCALE**  
 1 inch = 100 feet

Prepared by:	DATE:	SCALE:	PROJECT NO.:
Checked by:	DATE:	SCALE:	PROJECT NO.:
Drawn by:	DATE:	SCALE:	PROJECT NO.:
Checked by:	DATE:	SCALE:	PROJECT NO.:

Mountain Park Course  
 2007-1312-6J  
 July 13, 2007  
 Sheet 46 of 49

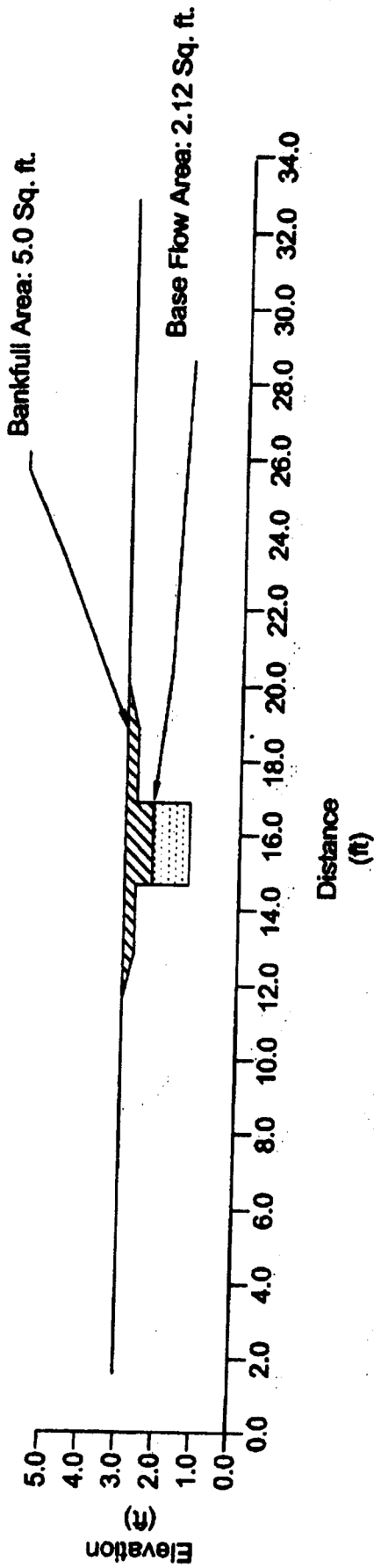
Hwy 11 Trib Priority 2 - Overview  
 Mountain Park Course  
 Cliffs Communities Inc.  
 Greenville County

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**ENVIRONMENTAL PERMITTING CONSULTANTS, INC.**

USACE PIN:

# Hwy 11 Trib Priority 2 Reach - Proposed Riffle Dimension



**Bankfull Width (ft): 8.5**  
**Mean Depth (ft): 0.59**  
**Maximum Depth (ft): 1.8**  
**Width/Depth Ratio : 14.36**  
**Hydraulic Radius (ft): 0.42**  
**Wetted Perimeter (ft): 11.7**  
**Bank Height Ratio: 1.0**

GRAPHIC SCALE



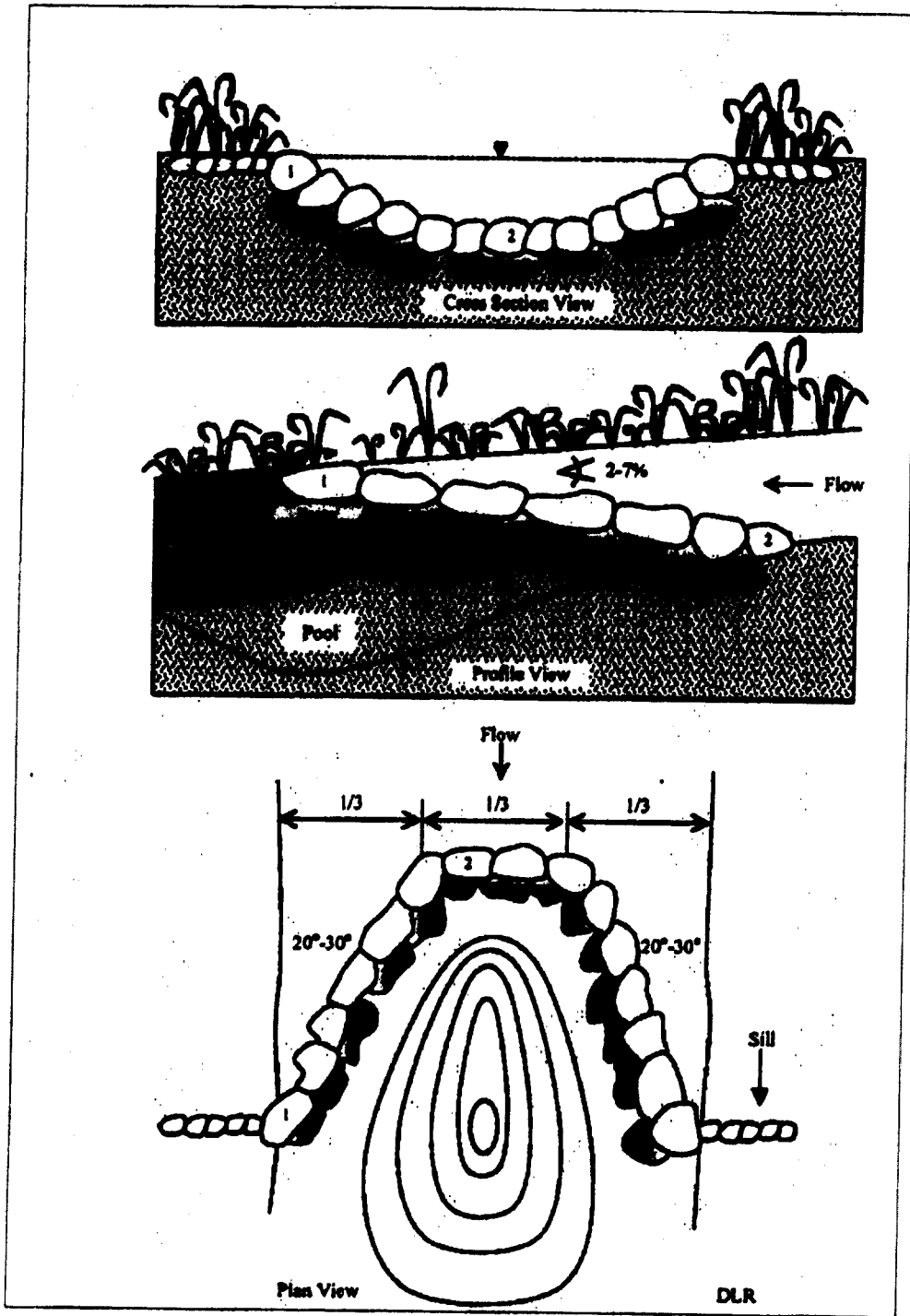
PERMITTED BY:  
 DATE: 7/13/07  
 PROJECT NO.: 07-141

Mountain Park Course  
 2007-1312-6J  
 July 13, 2007  
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**ENVIRONMENTAL PERMITTING CONSULTANTS, INC.**

USACE PIN:  
 Hwy 11 Priority 2 - Proposed Riffle  
 Mountain Park Course  
 Cillis Communities Inc.  
 Greenville County

SHEET NO.  
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Source: Rosgen, David L. 2001. ASCE Conference

Height of Vane Tail	0.55	Min Protrusion Height	0.08 ft.
Plan view Vane Angle	20	Min Footing Depth	0
Vane Length	8 ft.	Layers of Footing Stones	1
Minimum Rock Size	1.3 ft.	Vane Slope	6.90%

Mountain Park Course  
 2007-1312-6J  
 July 13, 2007  
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**ENVIRONMENTAL  
 PERMITTING  
 CONSULTANTS, INC.**

**GRAPHIC SCALE**  
  
 1 inch = 1 foot

Post Office Box 2544 Greenville, SC 29602 Phone: (864) 271-0540 Fax: (864) 271-0529	DRAWN BY: <b>SPG</b> DATE: <b>1/18/07</b> SPG PROJECT NO.: <b>0041</b>
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**Hwy 11 Trib - Cross Vane Detail**  
 Mountain Park Course  
 CRRS Communities Inc.  
 Greenville County  
 USACE P/N:

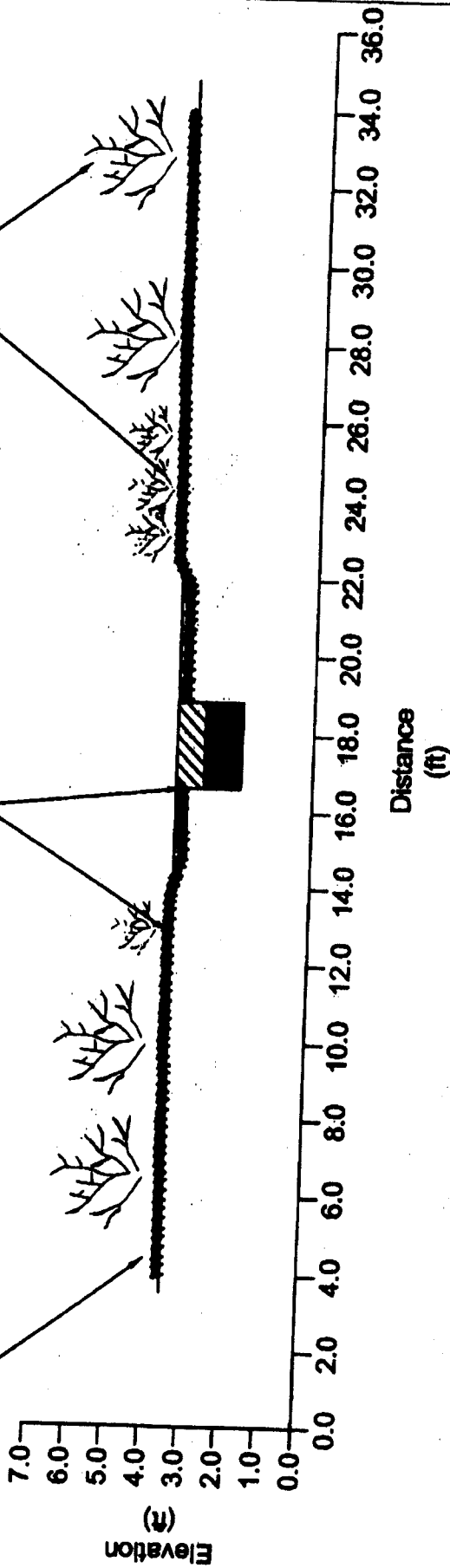
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# Hwy 11 Trib - Typical Bank Stabilization Treatment

Riparian grasses (planted under the guidance of Clemson University personnel associated with the establishment of the botanical gardens)

Woody trees and shrubs (planted under the guidance of Clemson University personnel associated with the establishment of the botanical gardens)

Coir Bio-D 70 Mat



**ENVIRONMENTAL PERMITTING CONSULTANTS, INC.**

**GRAPHIC SCALE**  
1 inch = 10 feet

Project No.	2007-1312-6J
Client	Mountain Park Course
Date	July 13, 2007
Scale	1 inch = 10 feet
Prepared by	W. J. ...
Checked by	...
Approved by	...

Mountain Park Course  
2007-1312-6J  
July 13, 2007  
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Hwy 11 Trib - Typical Bank Detail  
Mountain Park Course  
Cliff's Communities Inc.  
Greenville County

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USACE PLAN