

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 #2002-1U-541-W

14 February 2003

Pursuant to Sections 401 and 404 of the Clean Water Act (33 U.S.C. 1341), an application has been submitted to the Department of the Army and the South Carolina Department of Health and Environmental Control by

GREENVILLE COUNTRY CLUB
239 BYRD BOULEVARD
GREENVILLE, SOUTH CAROLINA 29605

for an after-the-fact permit to place fill material and restore

BRUSHY CREEK AND WELCOME CREEK

at a location within Greenville Country Club's Chanticleer Golf Course in Greenville County, South Carolina (Latitude 34.80528 N; Longitude 82.40222 W).

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, 17 MARCH 2003

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

The completed work consists of placing of rip-rap along 951 linear feet of both sides of stream and along 4,842 linear feet of a single side of stream. Vegetation was not removed nor was stream dimension, pattern, or profile altered. Proposed mitigative actions include: removal of rip-rap (1,200 linear feet), restoration of stream dimension and profile (6,463 linear feet), installation of rock vane structures, establishment of a riparian buffer (2,186 linear feet greater than 75 feet in width; 8,491 linear feet less than 75 feet in width). The purpose of the proposed work is to mitigate and restore the streams within Chanticleer Golf Course.

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

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envelope must also be provided for mailing the drawings to you. Your request for drawings should be addressed to the

**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. The District Engineer will not process this application to a conclusion until such certification is received. 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 Water Quality Certification 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 5,794 linear feet of stream located upstream 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.

The District Engineer has consulted the most recently available information and has determined that the project will have no effect on any Federally endangered, threatened, or proposed species and will not result in the destruction or adverse modification of designated or proposed critical habitat. This public notice serves as a request to the U.S. Fish and Wildlife Service and the National Marine Fisheries Service for any additional information they may have on whether any listed or proposed endangered or threatened species or designated or proposed critical habitat may be present in the area which would be affected by the activity, pursuant to Section 7(c) of the Endangered Species Act of 1973 (as amended).

The District Engineer has 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. Consultation of the National Register constitutes the extent of cultural resource investigations by the District Engineer, and he is otherwise unaware of the presence of such resources. Presently unknown archaeological, scientific, prehistorical, or historical data may be lost or destroyed by the work to be accomplished under the requested permit.

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.

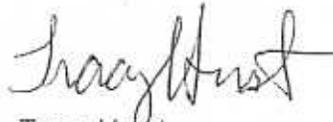
The decision whether to issue a permit will be based on an evaluation of the probable impact including cumulative impacts of the activity on the public interest and will include application of the guidelines promulgated by the Administrator, Environmental Protection Agency (EPA), under authority of Section 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

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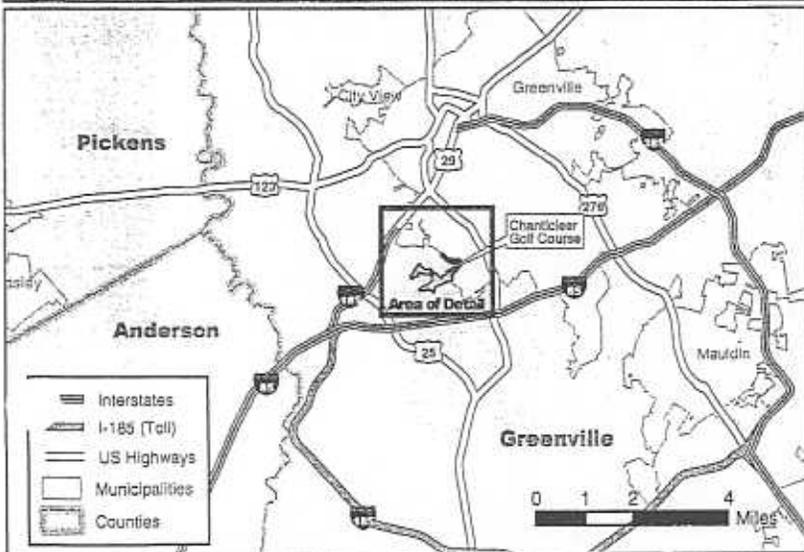
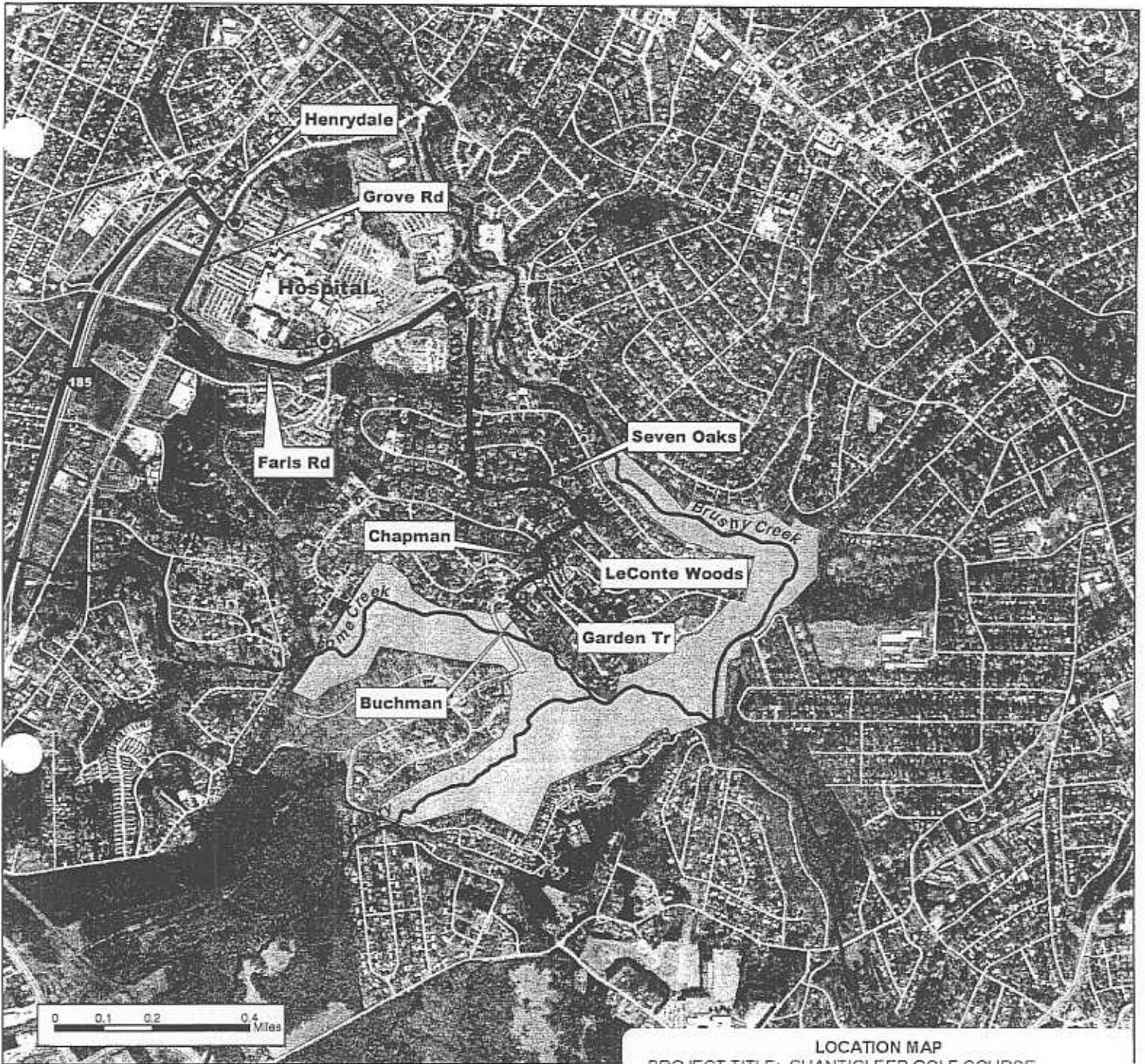
protection and utilization of important resources. The benefit which reasonably may be expected to accrue from the project must be balanced against its reasonably foreseeable detriments. All factors which may be relevant to the project will be considered including the cumulative effects thereof; among 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 me at 843-329-8044 or toll free at 1-866-329-8187.



Tracy Hurst
Project Manager
Regulatory Division
U.S. Army Corps of Engineers



LOCATION MAP
 PROJECT TITLE: CHANTICLEER GOLF COURSE
 APPLICANT: GREENVILLE COUNTRY CLUB
 LOCATION: GREENVILLE COUNTY, SC
 DATE: FEBRUARY 10, 2003
 FILE: P/N #2002-1U-541

SHEET 1 OF 17

-  Golf Course
-  Rivers and Streams
-  Route to Golf Course
-  Roads
-  Traffic Signal



THE PINNACLE CONSULTING GROUP

Source: City of Greenville, Greenville County, 1997
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 Created: 1/13/2003 By: ctalley
 File: G:\GIS\projects\Chanticleer\projects\Figure1\Directions.mxd





COMPLETED WORK
 PROJECT TITLE: CHANTICLEER GOLF COURSE
 APPLICANT: GREENVILLE COUNTRY CLUB
 LOCATION: GREENVILLE COUNTY, SC
 DATE: FEBRUARY 10, 2003
 FILE: P/N #2002-TU-541

	Rivers and Streams
	Buildings
	Ponds
	Golf Course Parcels
	Rip-Rap
	One-Sided
	Two-Sided
Total Linear Extent, 5878 Feet	



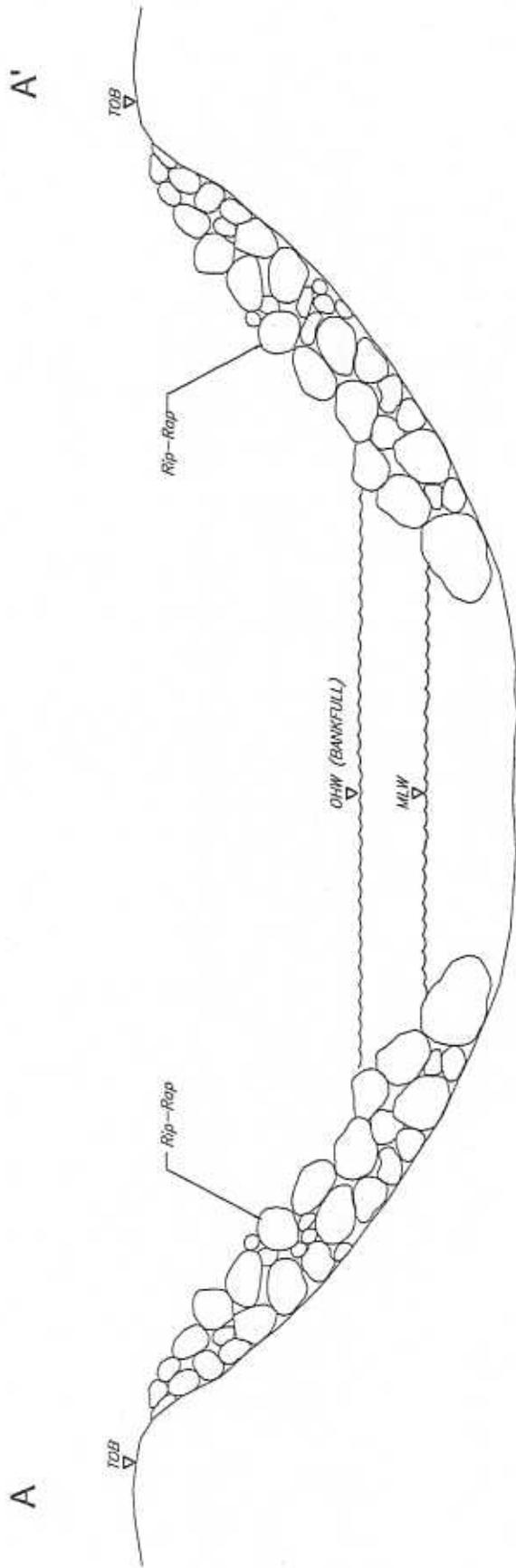
SHEET 2 OF 17



THE PINNACLE CONSULTING GROUP

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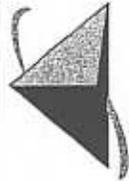
COMPLETED WORK - CROSS-SECTION
 PROJECT TITLE: CHANTICLEER GOLF COURSE
 APPLICANT: GREENVILLE COUNTRY CLUB
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 DATE: FEBRUARY 10, 2003
 FILE: P/N #2002-1U-541

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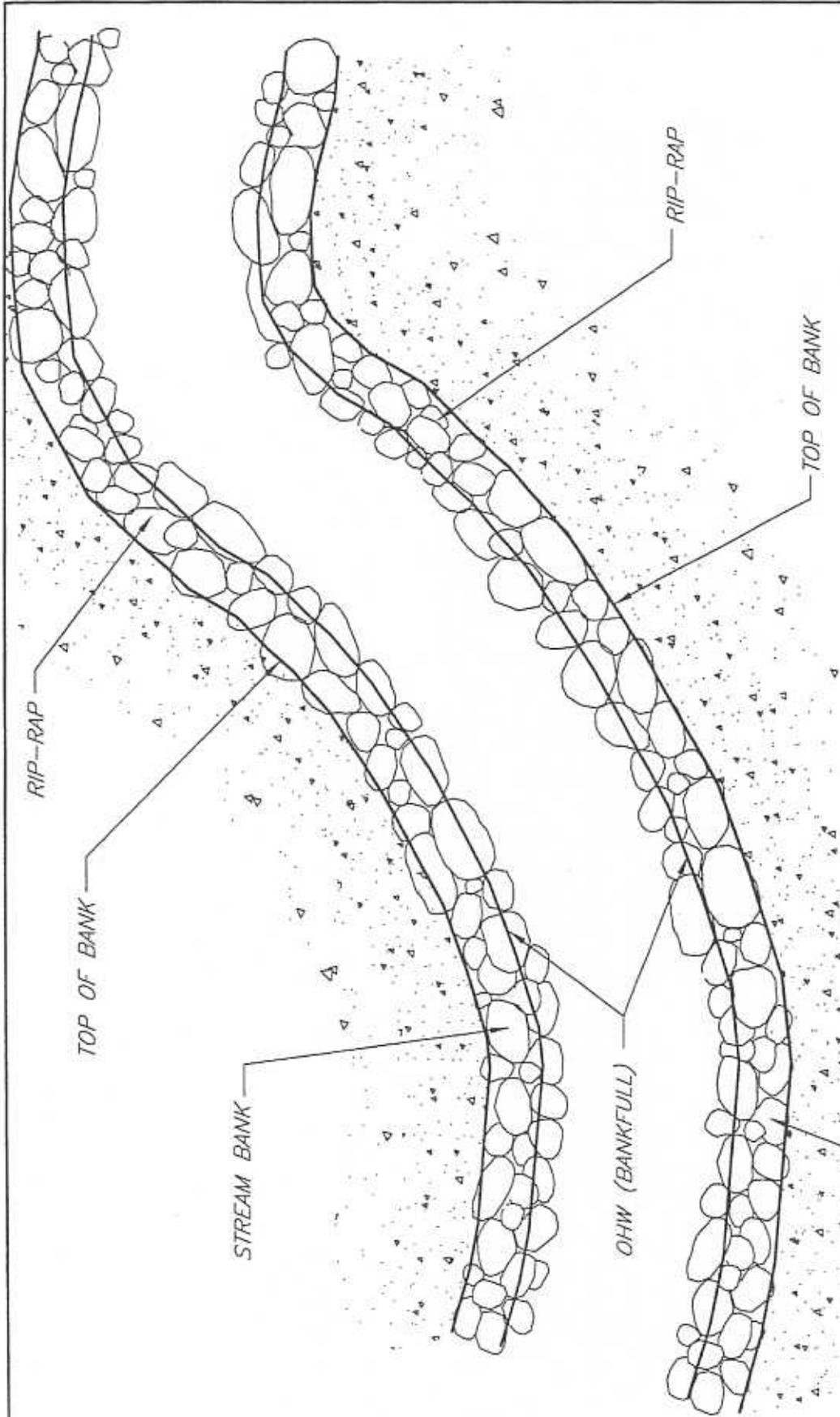
TYPICAL RIP-RAP CROSS-SECTION

A-A'

(NOT TO SCALE)



THE PINNACLE CONSULTING GROUP



COMPLETED WORK - PLAN VIEW
 PROJECT TITLE: CHANTICLEER GOLF COURSE
 APPLICANT: GREENVILLE COUNTRY CLUB
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 DATE: FEBRUARY 10, 2003
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**STREAM BANK WITH RIP-RAP
 PLAN VIEW**



THE PINNACLE CONSULTING GROUP

BRUSHY CREEK

Brushy Creek has a watershed size of 4.8 square miles. The valley is a relatively narrow, structurally controlled alluvial valley of moderate relief (Valley Type IV). The stream channel is not free to meander within the valley. The major meander bends in the upper section are associated with major meanders in the valley. Brushy Creek is predominately a G1 stream type in the reaches of high channel and valley slope and a G5 or B5 stream type in the areas of moderate channel slope (Figure 1). Historically, the lower section of Brushy Creek was likely straightened and channelized. The reaches that have not been hardened are in a non-stable form and are experiencing channel scour and bank erosion as they go through the process of adjusting bankfull dimension. The dimension of the existing condition based on preliminary data is greater than the predicted bankfull channel dimension according to the NC regional curves.

Existing channel dimension of Brushy Creek and comparison to NC regional curves.

Channel Dimension Variable	NC Regional Curves	Existing Channel Morphology
Bankfull Depth	2.5 ft	3.0 ft
Bankfull Width	23.3 ft	29.6 ft
Bankfull XS Area	62.3 sq. ft	87.4 sf
Width / Depth Ratio	9.32	10.1

Reach BC-r1

Stream Length: 95 ft.

Stream Type: G5

Restoration Type: Priority 3

Mitigative Actions:

- Leave rip-rap on right bank
- mulch treatment/ revegetation on rip-rap
- planting woody shrubs on left bank
- install structures/vanes
- adjust profile and dimension

Reach BC-r2

Stream Length: 715 ft.

Stream Type: G5/B5

Restoration Type: Priority 3

Mitigative Actions:

- Remove 80 ft of rip-rap, leave remaining rip-rap
- Adjust profile and dimension
- Install structures/vanes
- Exotic vegetation control
- mulch treatment/ revegetate with woody shrubs and native grasses on rip-rap
- adjust grades of left and right bank, stabilize with coir mat in non-rip-rap areas
- vegetate banks with native shrubs, native grasses, and live stakes

MITIGATIVE MEASURES

PROJECT TITLE: CHANTICLEER GOLF COURSE
APPLICANT: GREENVILLE COUNTRY CLUB
LOCATION: GREENVILLE COUNTY, SC
DATE: FEBRUARY 10, 2003
FILE: P/N #2002-1U-541

Reach BC-r3

Stream Length: 835 ft.

Stream Type: G5

Restoration Type: Priority 3

Mitigative Actions:

- Leave rip-rap
- Adjust profile and dimension
- Install structures/vanes
- Mulch treatment/ revegetate with woody shrubs and native grasses on rip-rap
- Vegetate banks with native shrubs, native grasses, and live stakes

Reach BC-r4

Stream Length: 498 ft.

Stream Type: B1/B5

Restoration Type: Priority 3

Mitigative Actions:

- Remove rip-rap on left bank
- Adjust profile and dimension
- Install structures/vanes
- adjust grades of left and right bank, stabilize with coir mat
- vegetate banks with native shrubs, native grasses, and live stakes
- Create floodprone areas on left and right banks
- Buffer restoration and establishment of native species
(75 ft width by 498 ft length)

Reach BC-r5

Stream Length: 950 ft.

Stream Type: G1

Restoration Type: None

Mitigative Actions: None

Reach BC-r6

Stream Length: 270 ft.

Stream Type: G1/G5

Restoration Type: Priority 4

Mitigative Actions

- Leave rip-rap
- Mulch treatment/ revegetate with woody shrubs and native grasses on rip-rap
- Vegetate banks with native shrubs, native grasses, and live stakes

MITIGATIVE MEASURES
PROJECT TITLE: CHANTICLEER GOLF COURSE
APPLICANT: GREENVILLE COUNTRY CLUB
LOCATION: GREENVILLE COUNTY, SC
DATE: FEBRUARY 10, 2003
FILE: P/N #2002-1U-541

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Reach BC-r7

Stream Length: 685 ft.

Stream Type: G5/G1

Restoration Type: Priority 3

Mitigative Action:

- Leave rip-rap on right bank
- Mulch treatment/ revegetate with woody shrubs and native grasses on rip-rap
- Vegetate banks with native shrubs, native grasses, and live stakes on left bank
- Install structures/vanes
- Adjust profile

Reach BC-r8

Stream Length: 135 ft.

Stream Type: G5

Restoration Type: Priority 3

Mitigative Action:

- Vegetate banks with native shrubs, native grasses, and live stakes
- Install structures/vanes
- Adjust profile
- adjust grades of left and right bank, stabilize with coir mat

MITIGATIVE MEASURES

PROJECT TITLE: CHANTICLEER GOLF COURSE
APPLICANT: GREENVILLE COUNTRY CLUB
LOCATION: GREENVILLE COUNTY, SC
DATE: FEBRUARY 10, 2003
FILE: P/N #2002-1U-541

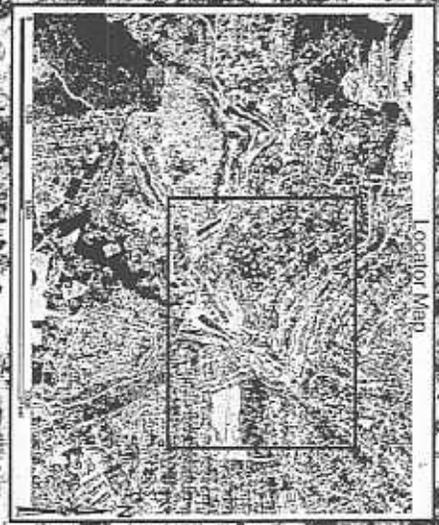
MITIGATIVE MEASURES
PROJECT TITLE: CHANTICLEER GOLF COURSE
APPLICANT: GREENVILLE COUNTRY CLUB
LOCATION: GREENVILLE COUNTY, SC
DATE: FEBRUARY 10, 2003
FILE: PIN #2002-1U-541

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-  Streets
-  Cart Paths
-  Sitelands
-  Mitigation Areas



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WELCOME CREEK

Welcome Creek has a watershed size of 2.97 square miles. The valley is a relatively narrow, structurally controlled alluvial valley of moderate relief (Valley Type IV). The stream channel is not free to meander within the valley. The stream is predominately a G1 stream type in the reaches of high channel and valley slope and a G5 or B5 stream type in the areas of moderate channel slope (Figure 2). The majority of the bank hardening with rip-rap is located in the reaches of high channel slope because these areas were experiencing excessive bank erosion due to higher velocities and stream power. The non-hardened reaches likely have been altered in the past as evidenced by low width/depth ratios. These reaches are in a non-stable form and are experiencing channel scour and bank erosion as they go through the process of adjusting bankfull dimension. The dimension of the existing condition based on preliminary data is slightly greater but within the confidence limits of the predicted bankfull channel dimension according to the NC regional curves.

Existing channel dimension of Welcome Creek and comparison to NC regional curves.

Channel Dimension Variable	NC Regional Curves	Existing Channel Morphology
Bankfull Depth	2.12 ft	2.4 ft
Bankfull Width	19.0 ft	22.1 ft
Bankfull XS Area	44.9 sf	51.6 sf
Width / Depth Ratio	9.0	9.5

Reach WC-r1

Stream Length: 405 ft.

Stream Type: G1

Restoration Type: Priority 4 (no SOP credit)

Mitigative Actions:

- Leave rip-rap on left and right banks
- Mulch treatment/revegetate both banks

Reach WC-r2

Stream Length: 430 ft.

Stream Type: G1

Restoration Type: Priority 4 (no SOP credit)

Mitigative Actions:

- Leave rip-rap on right bank
- Mulch treatment/revegetate right bank
- Enhancement woody shrub plantings on left bank

MITIGATIVE MEASURES

PROJECT TITLE: CHANTICLEER GOLF COURSE
APPLICANT: GREENVILLE COUNTRY CLUB
LOCATION: GREENVILLE COUNTY, SC
DATE: FEBRUARY 10, 2003
FILE: P/N #2002-1U-541

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Reach WC-r3

Stream Length: 60 ft.

Stream Type: B1

Restoration Type: None

Mitigative Actions:

- Enhancement woody shrub plantings on left and right banks
- Establish buffer right bank (60 ft. length x 75 ft. width)

Reach WC-r4

Stream Length: 353 ft.

Stream Type: G1/G5

Restoration Type: Priority 4 (no SOP credits)

Mitigative Actions:

- Leave rip-rap on left bank
- mulch treatment/revegetate left bank
- Enhancement woody shrub plantings on right bank
- Buffer right bank (353 ft. length x 75 ft. width)

Reach WC-r5

Stream Length: 540 ft.

Stream Type: G5 transition to B5

Restoration Type: Priority 3

Mitigative Actions:

- Adjust channel morphology (profile and dimension)
- Install structures/vanes
- Adjust bank slopes and stabilize with coir mats
- Enhancement woody shrub plantings and native grasses seeding on left and right bank
- Adjust bank slopes and stabilize with coir mats
- Buffer enhancement right bank/left bank
 - Right bank (75 ft. width x 400 ft. length)
 - Left bank (75 ft. width x 400 ft. length)

Reach WC-r6

Stream Length: 300 ft.

Stream Type: G1/G5 to B1/B5

Registration Type: Priority 3

Mitigative Actions:

- Install structures/vanes
- Adjust bank slopes and stabilize with coir mats
- Enhancement woody shrub plantings and native grass seeding on right and left bank

MITIGATIVE MEASURES

PROJECT TITLE: CHANTICLEER GOLF COURSE
APPLICANT: GREENVILLE COUNTRY CLUB
LOCATION: GREENVILLE COUNTY, SC
DATE: FEBRUARY 10, 2003
FILE: P/N #2002-1U-541

Reach WC-r7

Stream Length: 455 ft.

Stream Type: G1

Restoration Type: Priority 4 (no SOP credit)

Mitigative Actions:

- Mulch treatment/revegetate both banks
- Leave rip-rap on both banks

Reach WC-r8

Stream Length: 280 ft.

Stream Type: G1/G5

Restoration Type: Priority 4 (no SOP credit)

Mitigative Actions:

- Mulch treatment/revegetate both banks
- Leave rip-rap on both banks

Reach WC-r9

Stream Length: 635 ft.

Stream Type: G5 to B5

Restoration Type: Priority 4 (no SOP credit)

Mitigative Actions:

- Adjust channel morphology (profile and dimensions)
- Install structures/vanes
- Enhancement woody shrub plantings and native grasses seeding left and right bank
- Adjust slope banks and stabilize with coir mats
- Buffer enhancement right and left bank
Right bank (75 ft. width x 495 ft. length)
- Create floodprone area at bankfull elevation on right bank

Reach WC - r10

Stream Length: 210 ft.

Stream Type: G5

Restoration Type: Priority 4

Mitigative Actions:

- Channel morphology (profile and dimensions)
- Install structures and vanes
- Revegetate left bank
- Leave rip-rap on right bank
- Mulch treatment/revegetate right bank

MITIGATIVE MEASURES

PROJECT TITLE: CHANTICLEER GOLF COURSE
APPLICANT: GREENVILLE COUNTRY CLUB
LOCATION: GREENVILLE COUNTY, SC
DATE: FEBRUARY 10, 2003
FILE: P/N #2002-1U-541

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Reach WC-r11

Stream Length: 145 ft.

Stream Type: G1/G5

Restoration Type: none

Mitigative Actions:

- Revegetate right bank with woody shrubs

Reach WC-r12

Stream Length: 185 ft.

Stream Type: G1/G5

Restoration Type: Priority 4 (no SOP credit)

Mitigative Actions:

- Leave rip-rap on right bank
- Mulch treatment/revegetate right bank

Reach WC-r13

Stream Length: 705 ft.

Stream Type: B1/G1

Restoration Type: Priority 4 (no SOP credit)

Mitigative Actions:

- Leave prior-existing rip-rap on left and right banks
- Mulch treatment/revegetate both banks

Reach WC-r14

Stream Length: 180 ft.

Stream Type: G5/G1

Restoration Type: Priority 3

Mitigative Actions:

- Leave rip-rap on left bank
- mulch treatment/revegetate left bank
- Enhancement woody shrub plantings on right bank
- Adjust channel morphology (profile and dimensions)
- Install structures/vanes

Reach WC-r15

Stream Length: 75 ft.

Stream Type: G1/G5

Restoration Type: Priority 4 (no SOP credit)

Mitigative Actions:

- Mulch treatment/revegetate both banks
- Leave rip-rap on both banks

MITIGATIVE MEASURES

PROJECT TITLE: CHANTICLEER GOLF COURSE
APPLICANT: GREENVILLE COUNTRY CLUB
LOCATION: GREENVILLE COUNTY, SC
DATE: FEBRUARY 10, 2003
FILE: P/N #2002-1U-541

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Reach WC-r16

Stream Length: 300 ft.

Stream Type: G5

Restoration Type: Priority 3

Mitigative Actions:

- Adjust channel morphology (profile and dimensions)
- Install structures/vanes
- Enhancement woody shrub plantings and native grasses seeding left bank
- Adjust slope on left bank and stabilize with coir mats
- Buffer restoration left bank
 - Left bank (75 ft. width x 300 ft. length)
- Create floodprone area at bankfull elevation on left bank
- Leave rip-rap on right bank
- Mulch treatment/revegetate right bank

MITIGATIVE MEASURES

PROJECT TITLE: CHANTICLEER GOLF COURSE
APPLICANT: GREENVILLE COUNTRY CLUB
LOCATION: GREENVILLE COUNTY, SC
DATE: FEBRUARY 10, 2003
FILE: P/N #2002-1U-641

WELCOME CREEK TRIBUTARY

Welcome Creek tributary has a watershed size of 0.55 square miles (Figure 3). The predicted bankfull channel dimension according to the NC regional curves is comparable to the existing condition based on preliminary data.

Channel Dimension Variable	NC Regional Curves	Existing Channel Morphology
Bankfull Depth	1.2 ft	1.2 ft
Bankfull Width	9.2 ft	10.3 ft
Bankfull XS Area	14.3 sf	11.9 sf
Width / Depth Ratio	7.7	9.0

Reach WCT-r1

Reach Length: 405 feet

Stream Type: G5c

Restoration type: Priority 3

Proposed Restoration Actions:

- Vegetate channel banks with native woody shrubs
- Stabilize banks and adjust grades
- Install rock vanes where needed to reduce bank stress
- Create floodprone areas at or near bankfull to reduce bank height ratio and entrenchment ratio where possible
- Adjust channel dimension where feasible

Reach WCT-r2

Reach Length: 375 feet

Stream Type: B5c

Restoration Type: Priority 3

Proposed Restoration Actions:

- Vegetate channel banks with native woody shrubs
- Stabilize banks and adjust grades where needed
- Install rock vanes where needed to reduce bank stress and to restore pool features
- Adjust channel dimension and profile

Reach WCT-r3

Reach Length: 290 feet

Stream Type: B5c

Restoration Type: Priority 3

Proposed Restoration Actions:

- Vegetate channel banks with native woody shrubs
- Stabilize banks and adjust grades where needed
- Install rock vanes where needed to reduce bank stress and to restore pool features
- Adjust channel dimension and profile

MITIGATIVE MEASURES

PROJECT TITLE: CHANTICLEER GOLF COURSE
APPLICANT: GREENVILLE COUNTRY CLUB
LOCATION: GREENVILLE COUNTY, SC
DATE: FEBRUARY 10, 2003
FILE: P/N #2002-1U-541

Reach WCT-r4

Reach Length: 265 feet

Stream Type: G5c

Restoration type: Priority 3

Proposed Restoration Actions:

- Vegetate channel banks with native woody shrubs
- Stabilize banks and adjust grades
- Install rock vanes where needed to reduce bank stress, restore pool features, and adjust slope
- Create floodprone areas at or near bankfull to reduce bank height ratio and entrenchment ratio where possible
- Adjust channel and profile dimension where feasible

MITIGATIVE MEASURES

PROJECT TITLE: CHANTICLEER GOLF COURSE
APPLICANT: GREENVILLE COUNTRY CLUB
LOCATION: GREENVILLE COUNTY, SC
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