SCDHEC OFFICE OF OCEAN AND COASTAL RESOURCE MANAGEMENT
PERMIT APPLICATION PUBLIC NOTICE

June 29, 2007

Permit Number: OCRM-07-189-B
Permit ID: 58019

The SCDHEC Office of Ocean and Coastal Resource Management has received an application for a permit for the alteration of a critical area. This application was submitted pursuant to the Coastal Zone Management Act (Act 123) of the 1977 South Carolina General Assembly. The application, in brief, is described as follows:

APPLICANT: South Carolina Electric and Gas Company
C/o Christopher M. Potter, P.E.
Columbia, South Carolina 29218
Mail Code 03A

LOCATION: On and adjacent to Beresford Creek, the Wando River, a tributary of Rathall Creek, and the adjacent marshes in areas adjacent to I-526 and situated between the South Carolina State Ports Authority Wando Welch Terminal Substation and the South Carolina Electric and Gas Substation on Thomas Island off Thomas Island Drive, Charleston, Charleston and Berkeley Counties, South Carolina.

WORK: The work as proposed and shown on the attached plans consists of installing a 4.1 mile 8" diameter submarine gas filled pipe that will carry three 115kV systems under Beresford Creek, the Wando River, a tributary of Rathall Creek, and the adjacent marshes in Berkeley and Charleston Counties, South Carolina. The purpose of the proposed work is to improve the electrical system reliability and to adapt the existing system to increasing customer load growth. Please note that this proposed activity is a candidate for the Army Corps of Engineers Nationwide Permit #12.

This public notice is being distributed to all known interested persons and agencies to assist in developing facts on which a decision by OCRM can be based. Comments concerning the proposed work should be submitted in writing, setting forth sufficient detail to furnish a clear understanding of the reasons for support or opposition.

The decision to issue or deny a permit will be based on the individual merits of the application, the policies specified in the South Carolina Coastal Zone Management Act, and the considerations outlined in the State of South Carolina Coastal Zone Management Program. Interested parties who wish to be notified of final permit action must notify OCRM in writing of this request.

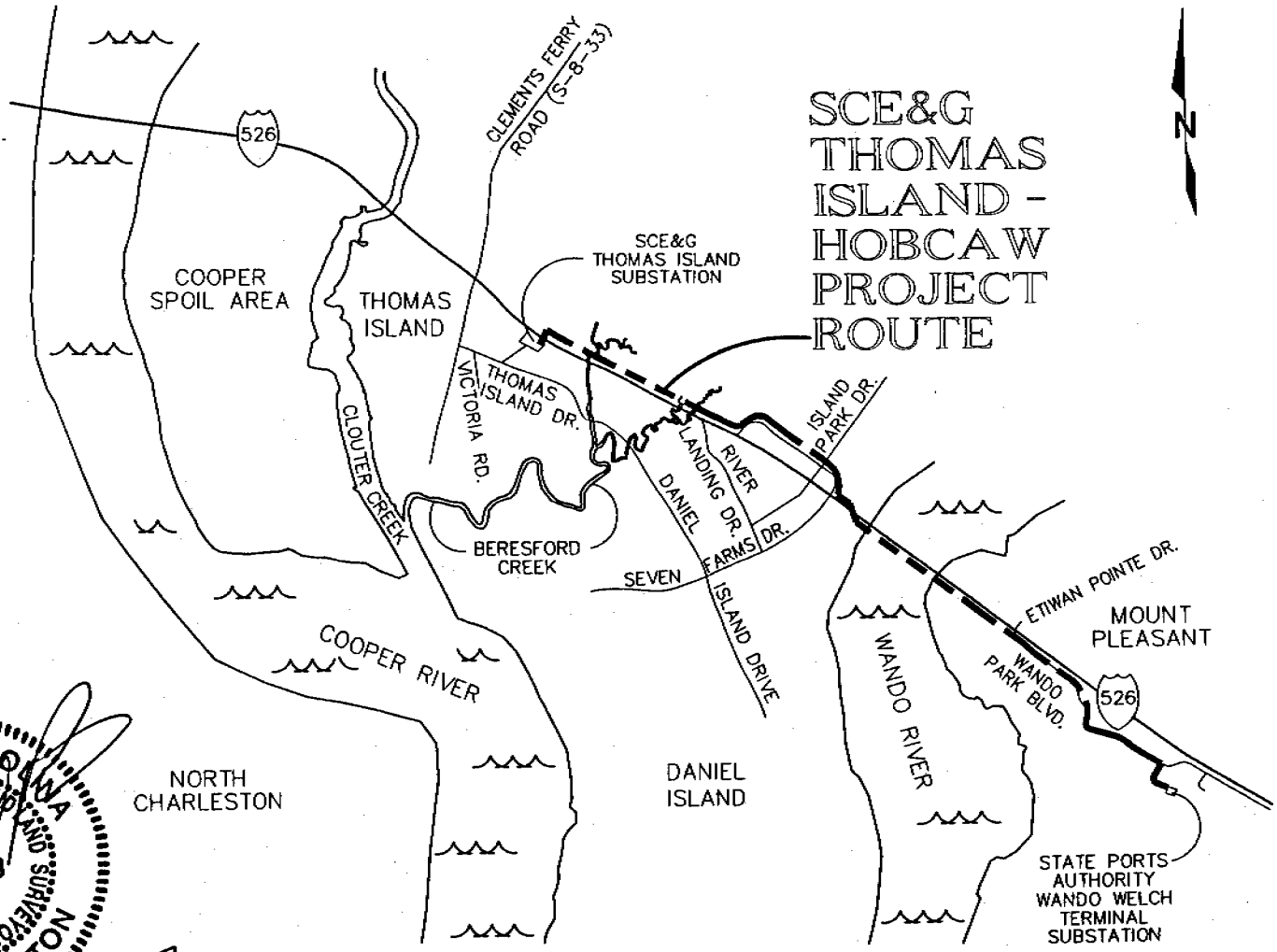
To assure review by OCRM, comments regarding this application must be received by OCRM on or before July 31, 2007. For further information please contact the project manager for this activity, Steve Brooks at 843 -953-0235.
PLEASE REPLY TO:

SCDHEC OFFICE OF OCEAN AND COASTAL RESOURCE MANAGEMENT
1362 McMillan Avenue, Suite 400
Charleston, South Carolina 29405

Please refer to P/N# OCRM -07-189-B

Tess Rodgers, Regulatory Coordinator

M



SOUTH CAROLINA
PROFESSIONAL ENGINEER AND LAND SURVEYOR
No. 11053
R. DAVID BRANTON
3-29-07

THOMAS ISLAND – HOBCAW 115kV UNDERGROUND LINE
CROSSING BERESFORD CREEK, THE WANDO RIVER, AND RATHALL CREEK
ADJACENT CRITICAL AREA
(a.k.a. SALT MARSH & TRIBUTARIES)

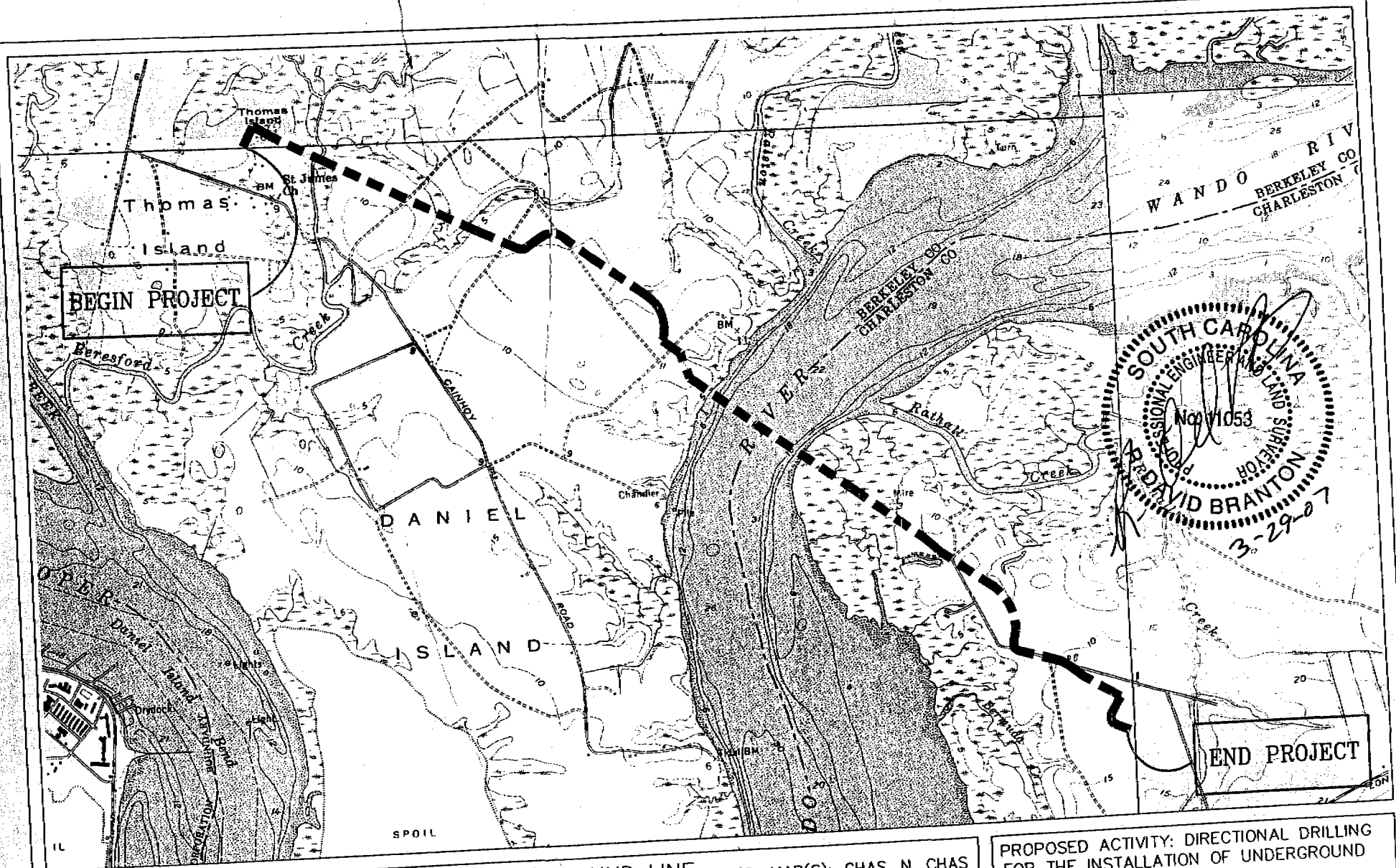
LOCATION MAP

DATE: FEBRUARY 23, 2007
SHEET: 1 of 15
SCALE: N.T.S.

PROPOSED ACTIVITY: DIRECTIONAL DRILLING FOR THE INSTALLATION OF UNDERGROUND UTILITIES BY S.C.E.&G.

COUNTY(S):
BERKELEY & CHARLESTON, SOUTH CAROLINA

APPLICANT:
S.C.E.&G. OCRM-07-189-8



THOMAS ISLAND – HOBCAW 115kV UNDERGROUND LINE
CROSSING BERESFORD CREEK, THE WANDO RIVER,
AND RATHALL CREEK ADJACENT CRITICAL AREA
(a.k.a. SALT MARSH & TRIBUTARIES)

QUAD SHEET

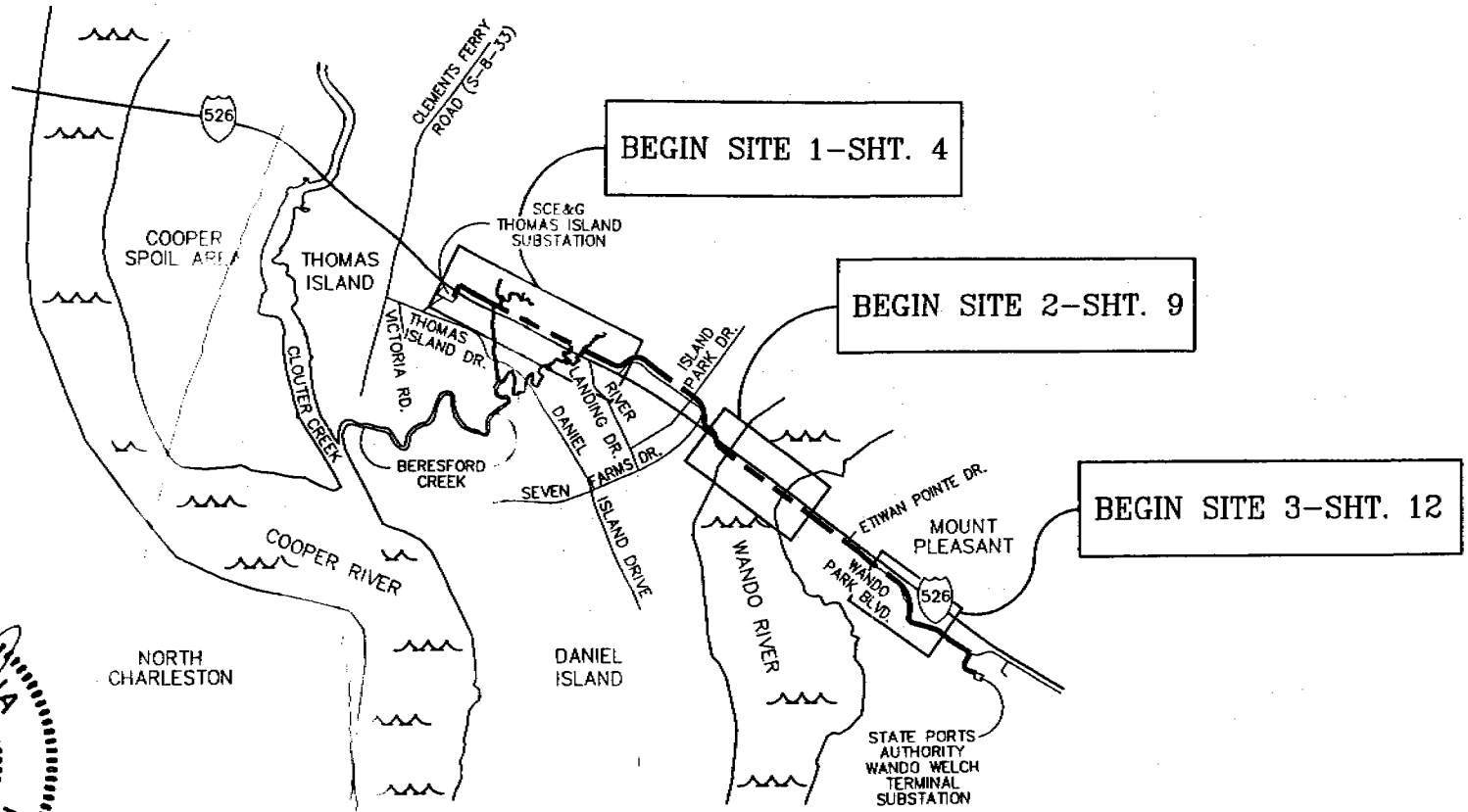
DATE: FEBRUARY 23, 2007
SHEET: 2 of 15
SCALE: 1" = 2500'

QUAD. MAP(S): CHAS, N. CHAS
FT. MOULTRIE, CAINHOY, S.C.
PHOTO REVISED: VARIES
BEGIN PROJECT
LAT.: 32–52–28.7
LONG.: 79–55–33.9
END PROJECT
LAT.: 32–50–35.7
LONG.: 79–52–31.8

PROPOSED ACTIVITY: DIRECTIONAL DRILLING FOR THE INSTALLATION OF UNDERGROUND UTILITIES BY S.C.E.&G.

COUNTY(S):
BERKELEY & CHARLESTON, SOUTH CAROLINA

APPLICANT:
S.C.E.&G. OCRM-07-189-8



SOUTH CAROLINA PROFESSIONAL ENGINEER AND LAND SURVEYOR No. 11053 DAVID BRANTON

3-29-07

THOMAS ISLAND – HOBCAW 115kV UNDERGROUND LINE CROSSING BERESFORD CREEK, THE WANDO RIVER, AND RATHALL CREEK ADJACENT CRITICAL AREA (a.k.a. SALT MARSH & TRIBUTARIES)

OVERALL KEY MAP

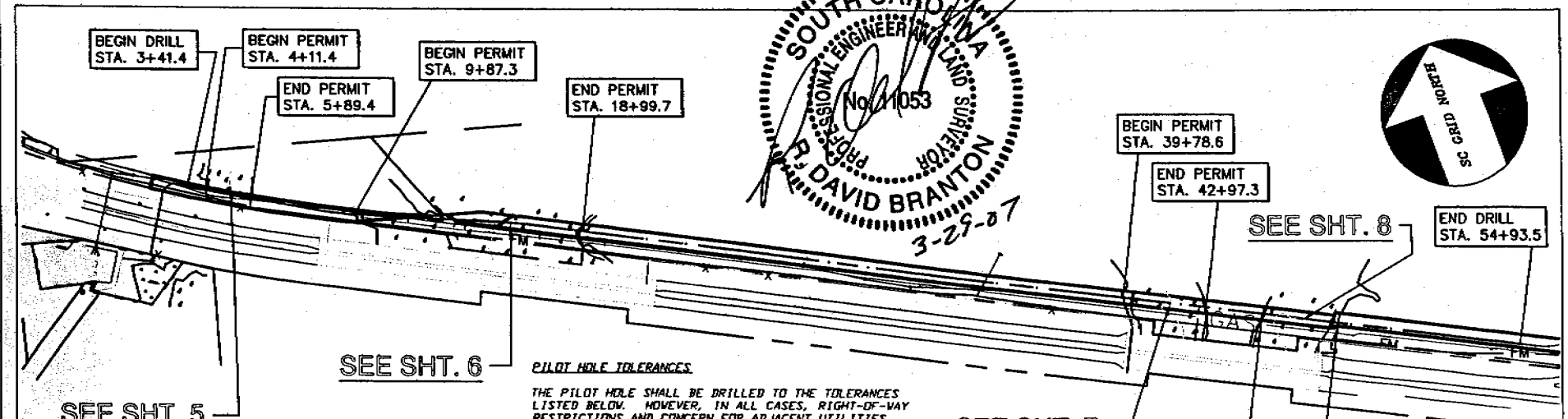
DATE: FEBRUARY 23, 2007
SHEET: 3 of 15
SCALE: 1" = N.T.S.

PROPOSED ACTIVITY: DIRECTIONAL DRILLING FOR THE INSTALLATION OF UNDERGROUND UTILITIES BY S.C.E.&G.

COUNTY(S):
BERKELEY & CHARLESTON, SOUTH CAROLINA

APPLICANT:
S.C.E.&G.

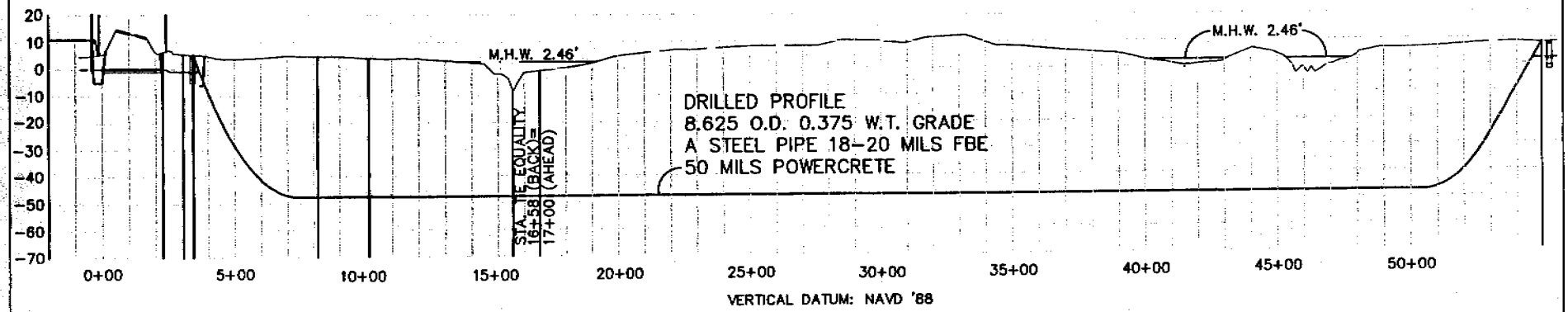
OCRM-07-189-B



PILOT HOLE TOLERANCES

THE PILOT HOLE SHALL BE DRILLED TO THE TOLERANCES LISTED BELOW. HOWEVER, IN ALL CASES, RIGHT-OF-WAY RESTRICTIONS AND CONCERN FOR ADJACENT UTILITIES SHALL TAKE PRECEDENCE OVER THESE TOLERANCES.

1. ELEVATION - PLUS 15 FEET, MINUS 15 FEET FROM STATION 7+92 THROUGH STATION 50+46. PLUS 0 FEET, MINUS 15 FEET ALL ELSE.
2. ALIGNMENT - PLUS OR MINUS 10 FEET.
3. ENTRY POINT - AT THE STAKED LOCATION.
4. EXIT POINT - PLUS OR MINUS 5 FEET IN ALIGNMENT, PLUS OR MINUS 15 FEET IN LENGTH.
5. CURVE RADIUS - NO LESS THAN 800 FEET.



THOMAS ISLAND – HOBCAW 115kV UNDERGROUND LINE
CROSSING OF BERESFORD CREEK AND
MARSHES WITH TRIBUTARIES
(a.k.a. SALT MARSH & TRIBUTARIES)

OVERALL PLAN– SITE 1

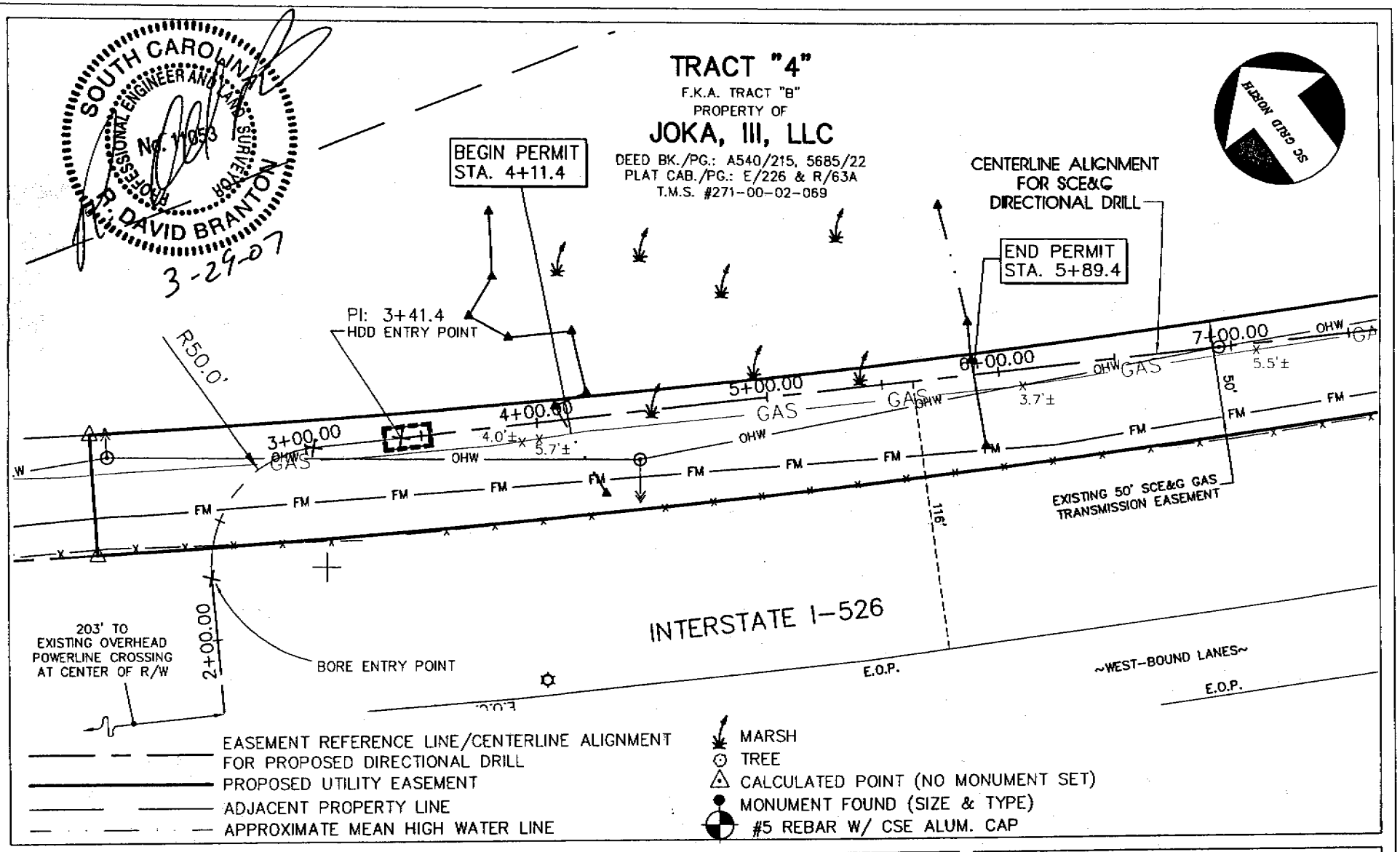
DATE: FEBRUARY 23, 2007
SHEET: 4 of 15
SCALE: 1" =600'

QUAD. MAP: CHARLESTON, S.C.
PHOTO REVISED: 1979
BEGIN DRILL
LAT.: 32-52-31
LONG.: 79-55-31
END DRILL
LAT.: 32-52-08
LONG.: 79-54-38

PROPOSED ACTIVITY: DIRECTIONAL DRILLING FOR THE INSTALLATION OF UNDERGROUND UTILITIES BY S.C.E.&G.

COUNTY:
BERKELEY, SOUTH CAROLINA

APPLICANT:
S.C.E.&G. OCRM-07-189-B



SOUTH CAROLINA PROFESSIONAL ENGINEER AND LAND SURVEYOR No. 11053 R. DAVID BRANTON
3-29-07

THOMAS ISLAND – HOBCAW 115kV UNDERGROUND LINE
CROSSING OF BERESFORD CREEK AND
MARSHES WITH TRIBUTARIES
(a.k.a. SALT MARSH & TRIBUTARIES)

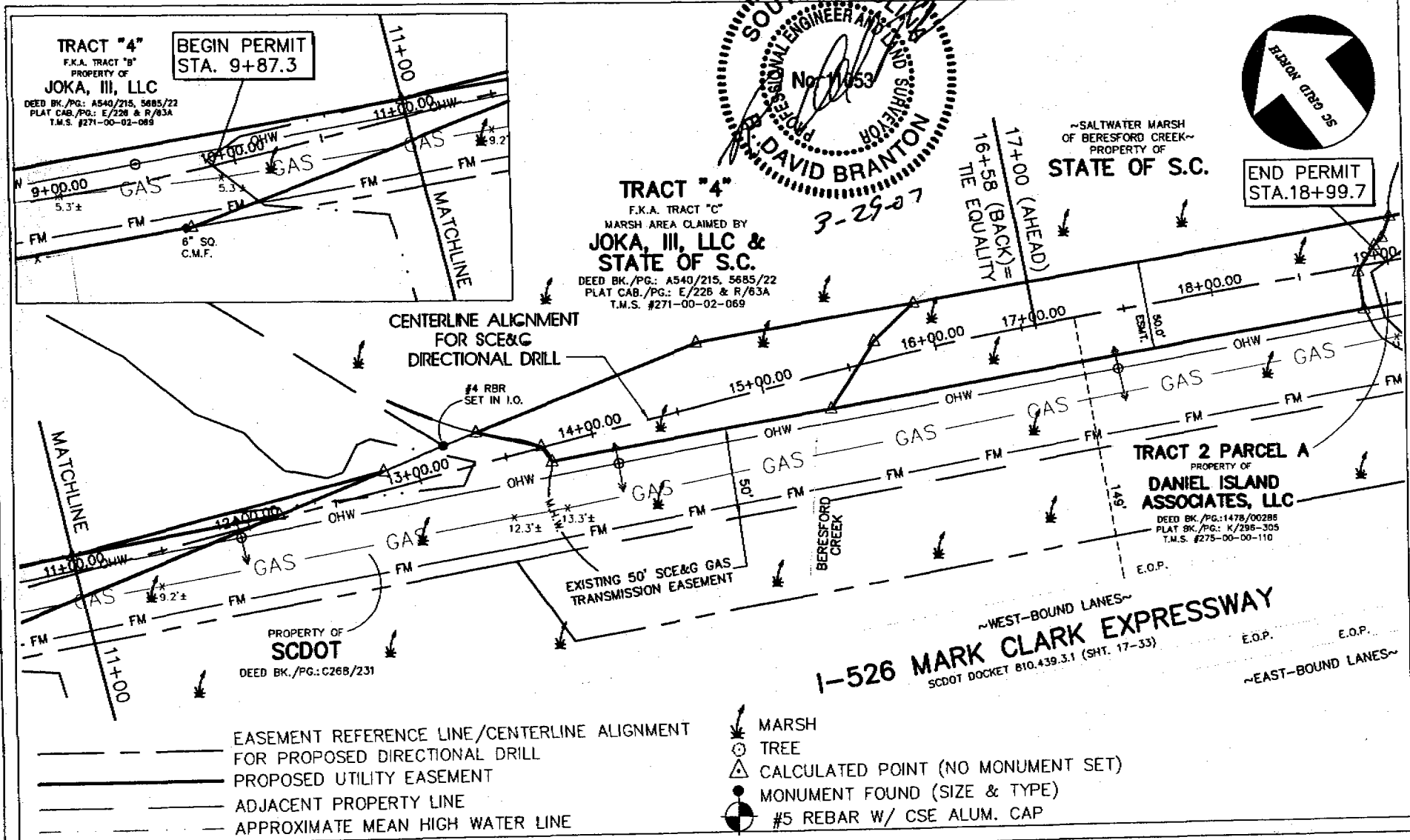
DETAIL A

DATE: FEBRUARY 23, 2007
SHEET: 5 of 15
SCALE: 1" = 60'

PROPOSED ACTIVITY: DIRECTIONAL DRILLING FOR THE INSTALLATION OF UNDERGROUND UTILITIES BY S.C.E.&G.

COUNTY:
BERKELEY, SOUTH CAROLINA

APPLICANT:
S.C.E.&G. OCRM-07-189-B



SOUTH CAROLINA
PROFESSIONAL ENGINEER AND LAND SURVEYOR
No. 11053
DAVID BRANTON
3-29-07

THOMAS ISLAND – HOBCAW 115kV UNDERGROUND LINE
CROSSING OF BERESFORD CREEK AND
MARSHES WITH TRIBUTARIES
(a.k.a. SALT MARSH & TRIBUTARIES)

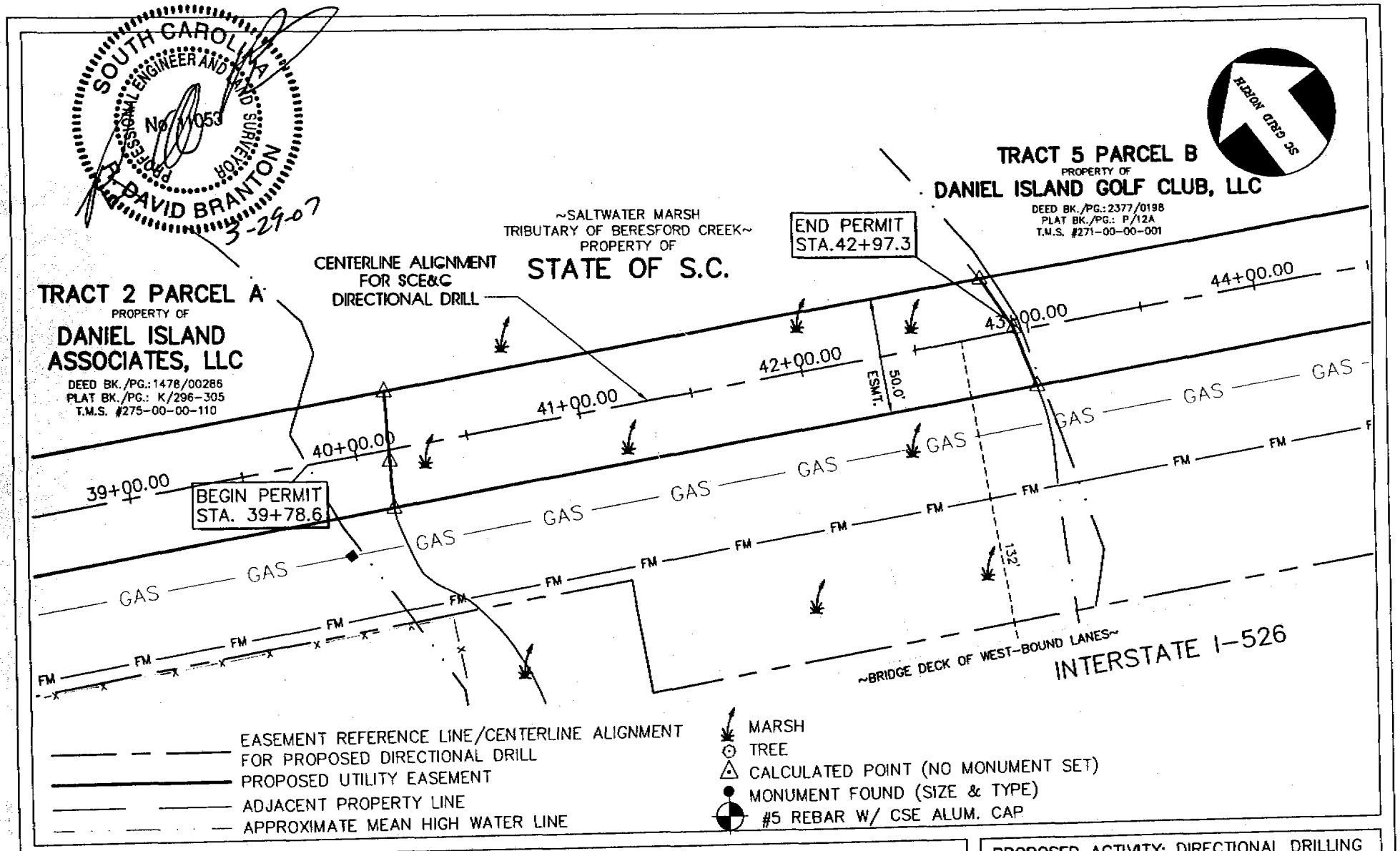
DETAIL B

DATE: FEBRUARY 23, 2007
SHEET: 6 of 15
SCALE: 1" = 80'

PROPOSED ACTIVITY: DIRECTIONAL DRILLING FOR THE INSTALLATION OF UNDERGROUND UTILITIES BY S.C.E.&G.

COUNTY:
BERKELEY, SOUTH CAROLINA

APPLICANT:
S.C.E.&G. OCRM-07-189-B



THOMAS ISLAND – HOBCAW 115kV UNDERGROUND LINE
CROSSING OF BERESFORD CREEK AND
MARSHES WITH TRIBUTARIES
(a.k.a. SALT MARSH & TRIBUTARIES)

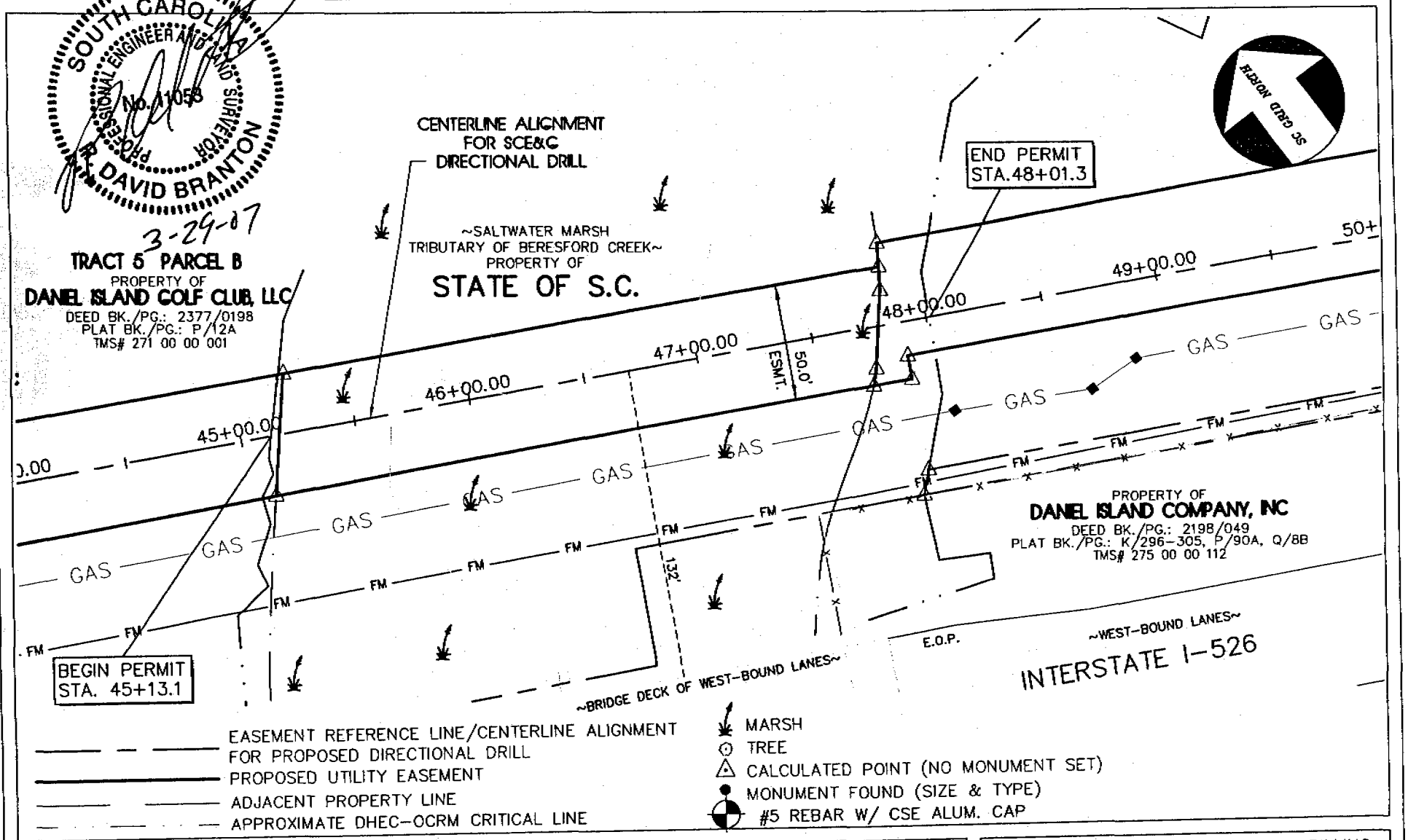
DETAIL C

DATE: FEBRUARY 23, 2007
SHEET: 7 of 15
SCALE: 1" = 60'

PROPOSED ACTIVITY: DIRECTIONAL DRILLING FOR THE INSTALLATION OF UNDERGROUND UTILITIES BY S.C.E.&G.

COUNTY:
BERKELEY, SOUTH CAROLINA

APPLICANT:
S.C.E.&G. OCRM-07-189-B



THOMAS ISLAND – HOBCAW 115kV UNDERGROUND LINE
CROSSING OF BERESFORD CREEK AND
MARSHES WITH TRIBUTARIES
(a.k.a. SALT MARSH & TRIBUTARIES)

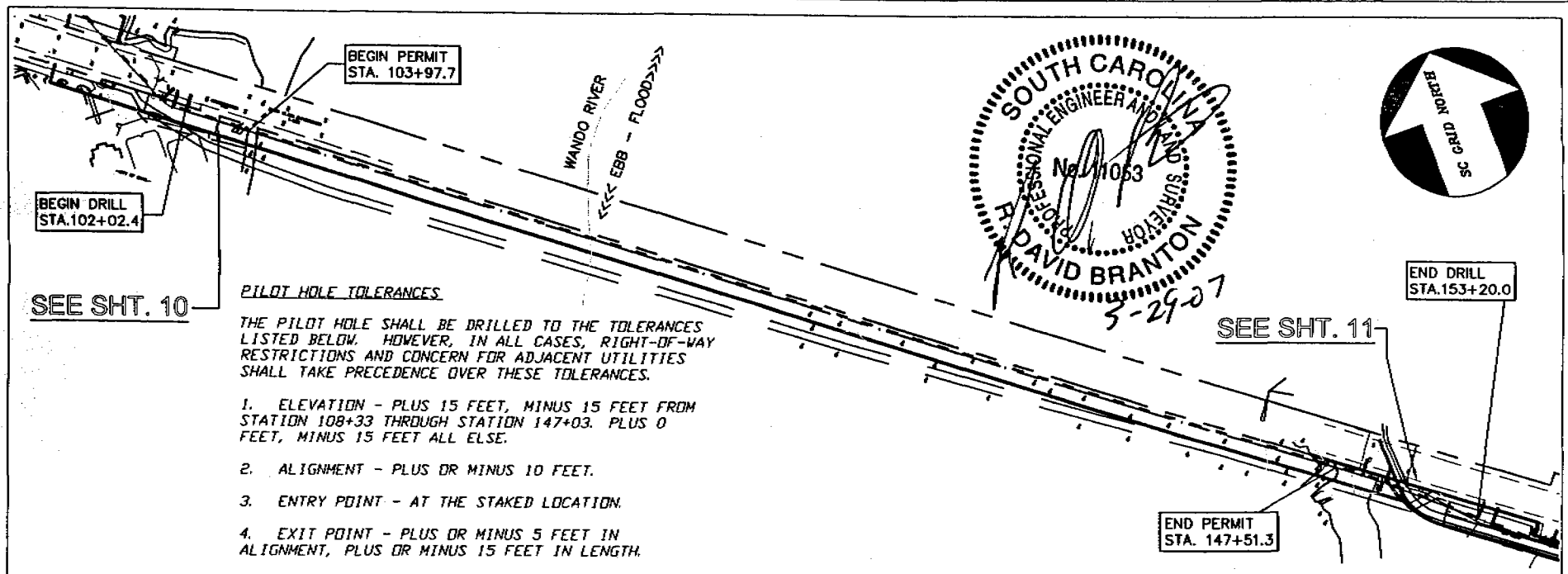
DETAIL D

DATE: FEBRUARY 23, 2007
SHEET: 8 of 15
SCALE: 1" = 60'

PROPOSED ACTIVITY: DIRECTIONAL DRILLING FOR THE INSTALLATION OF UNDERGROUND UTILITIES BY S.C.E.&G.

COUNTY:
BERKELEY, SOUTH CAROLINA

APPLICANT:
S.C.E.&G. OCRM-07-189-B



PILOT HOLE TOLERANCES

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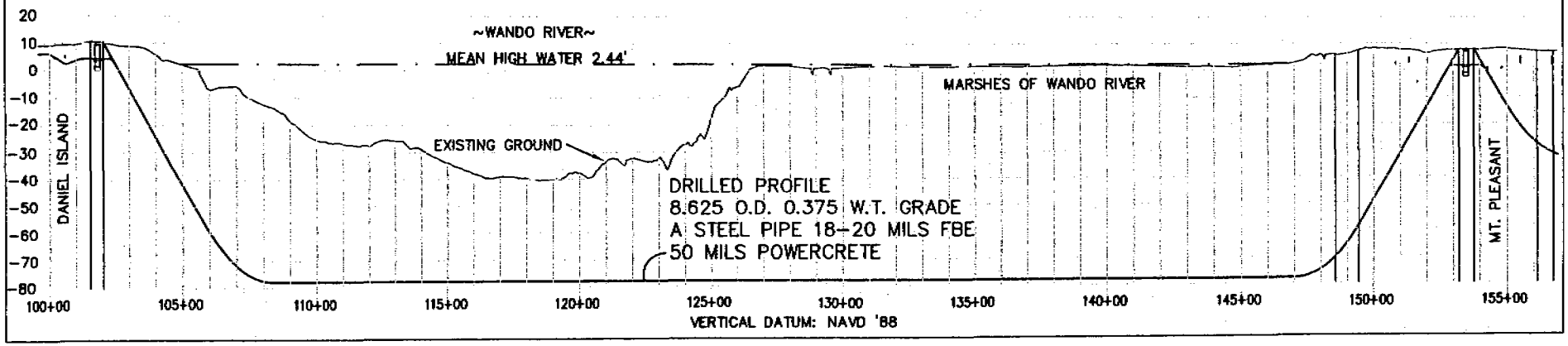
1. ELEVATION - PLUS 15 FEET, MINUS 15 FEET FROM STATION 108+33 THROUGH STATION 147+03. PLUS 0 FEET, MINUS 15 FEET ALL ELSE.

2. ALIGNMENT - PLUS OR MINUS 10 FEET.

3. ENTRY POINT - AT THE STAKED LOCATION.

4. EXIT POINT - PLUS OR MINUS 5 FEET IN ALIGNMENT, PLUS OR MINUS 15 FEET IN LENGTH.

5. CURVE RADIUS - NO LESS THAN 800 FEET.



THOMAS ISLAND – HOBCAW 115kV UNDERGROUND LINE
CROSSING OF WANDO RIVER AND MARSHES

OVERALL PLAN– SITE 2

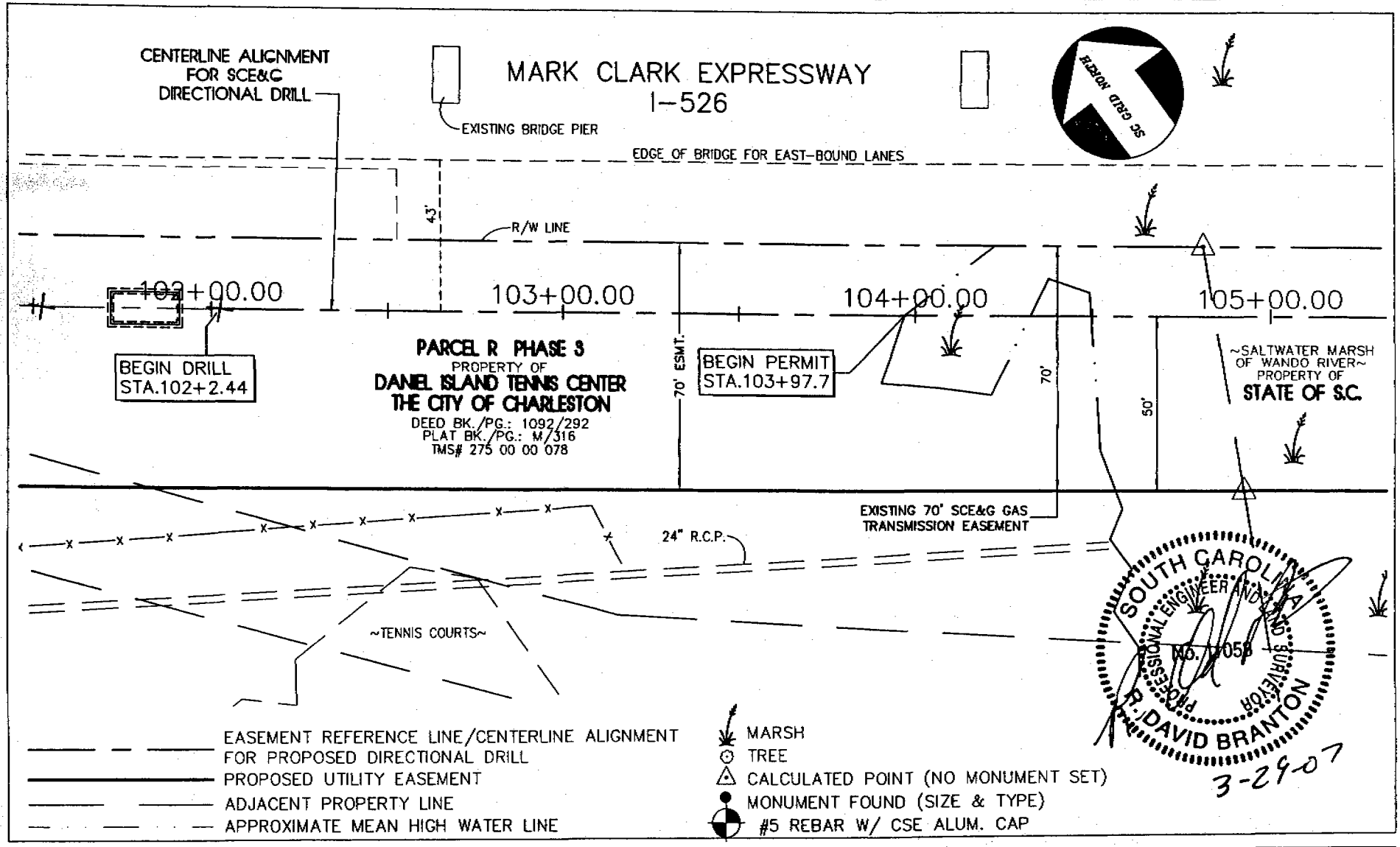
DATE: FEBRUARY 23, 2007
SHEET: 9 of 15
SCALE: 1" =600'

QUAD. MAP: CHARLESTON, S.C.
PHOTO REVISED: 1979
BEGIN DRILL
LAT.: 32–51–43
LONG.: 79–54–00
END DRILL
LAT.: 32–51–12
LONG.: 79–53–13

PROPOSED ACTIVITY: DIRECTIONAL DRILLING FOR THE INSTALLATION OF UNDERGROUND UTILITIES BY S.C.E.&G.

COUNTY:
BERKELEY & CHARLESTON, SOUTH CAROLINA

APPLICANT:
S.C.E.&G. OCRM-07-189-B



THOMAS ISLAND – HOBCAW 115kV UNDERGROUND LINE CROSSING THE WANDO RIVER

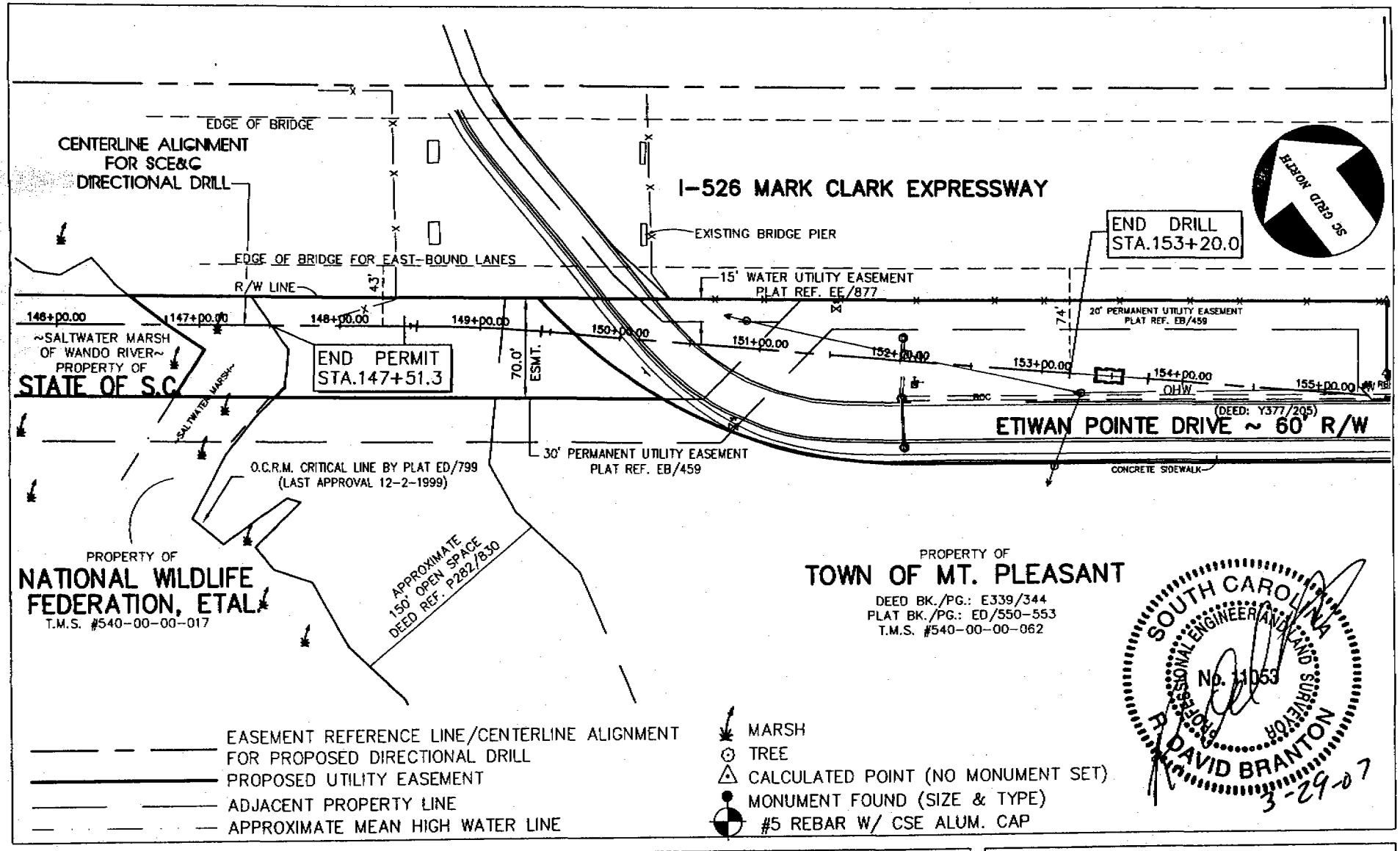
DETAIL E

DATE: FEBRUARY 23, 2007
SHEET: 10 of 15
SCALE: 1" = 40'

PROPOSED ACTIVITY: DIRECTIONAL DRILLING FOR THE INSTALLATION OF UNDERGROUND UTILITIES BY S.C.E.&G.

COUNTY:
BERKELEY, SOUTH CAROLINA

APPLICANT:
S.C.E.&G. OCRM-07-189-B



THOMAS ISLAND – HOBCAW 115kV UNDERGROUND LINE
CROSSING OF WANO RIVER

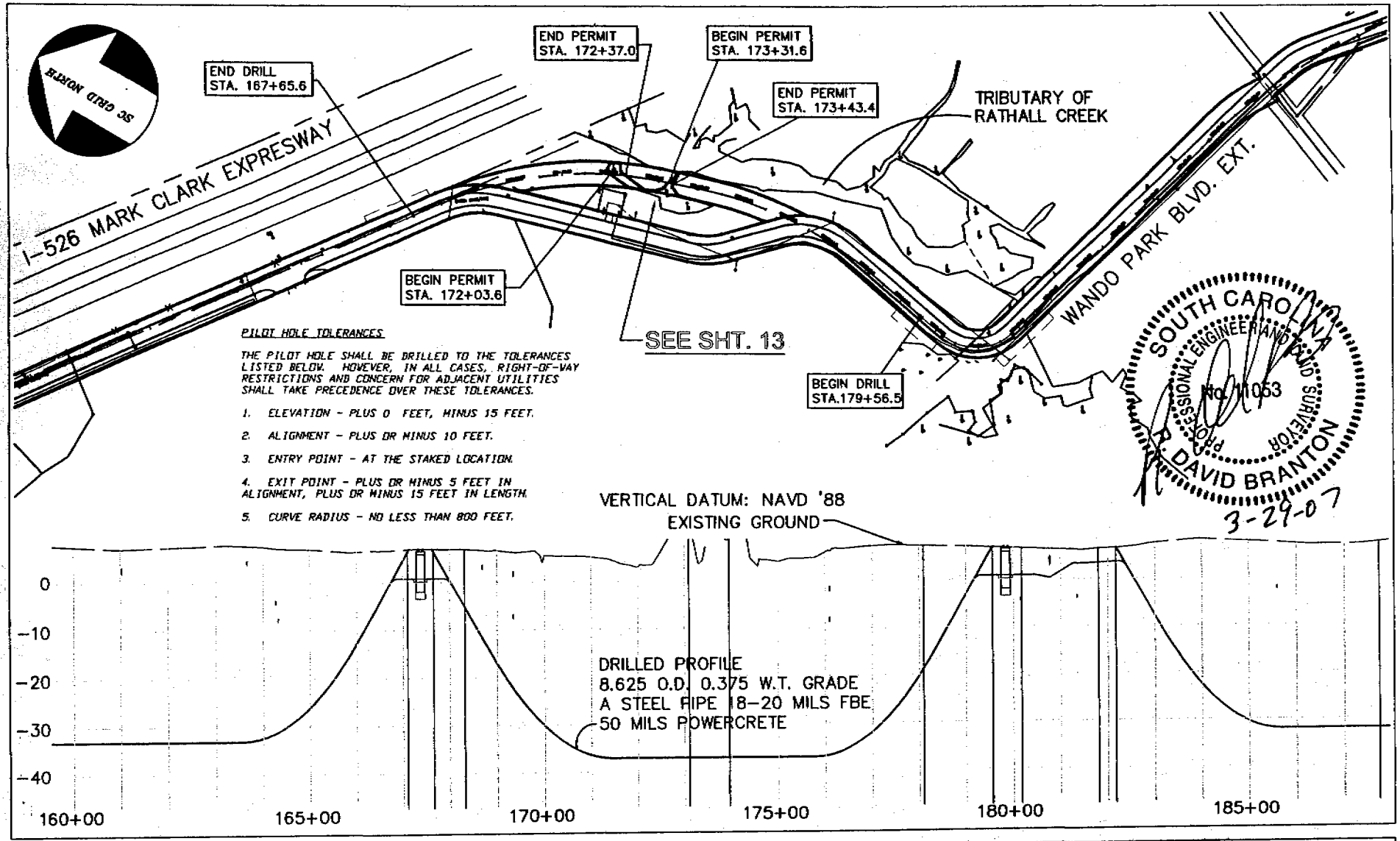
DETAIL F

DATE: FEBRUARY 23, 2007
SHEET: 11 of 15
SCALE: 1" = 100'

PROPOSED ACTIVITY: DIRECTIONAL DRILLING FOR THE INSTALLATION OF UNDERGROUND UTILITIES BY S.C.E.&G.

COUNTY:
CHARLESTON, SOUTH CAROLINA

APPLICANT:
S.C.E.&G. OCRM-07-189-B



THOMAS ISLAND – HOBCAW 115kV UNDERGROUND LINE CROSSING MARSHES OF A TRIBUTARY OF RAT HALL CREEK

OVERALL PLAN– SITE 3

DATE: FEBRUARY 23, 2007
SHEET: 12 of 15
SCALE: 1" =300'

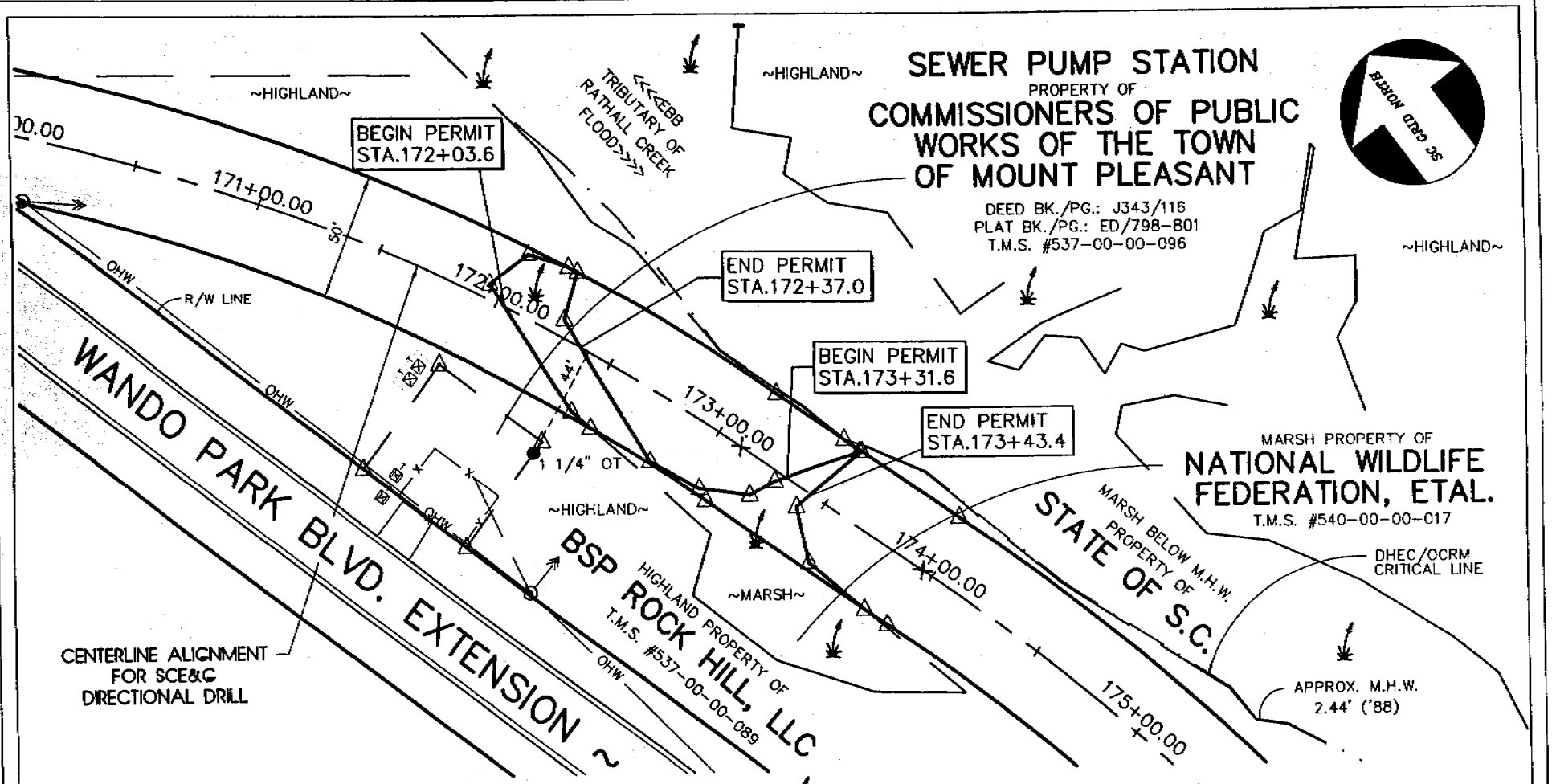
QUAD. MAP: CHARLESTON, S.C.
PHOTO REVISED: 1979
BEGIN DRILL
LAT.: 32–50–47
LONG.: 79–50–03
END DRILL
LAT.: 32–51–01
LONG.: 79–52–59

PROPOSED ACTIVITY: DIRECTIONAL DRILLING FOR THE INSTALLATION OF UNDERGROUND UTILITIES BY S.C.E.&G.

COUNTY:
CHARLESTON, SOUTH CAROLINA

APPLICANT:
S.C.E.&G.

OCRM-07-189-B



THOMAS ISLAND – HOBCAW 115kV UNDERGROUND LINE CROSSING MARSHES OF A TRIBUTARY OF RAT HALL CREEK

DETAIL G

DATE: FEBRUARY 23, 2007
SHEET: 13 of 15
SCALE: 1" = 60'

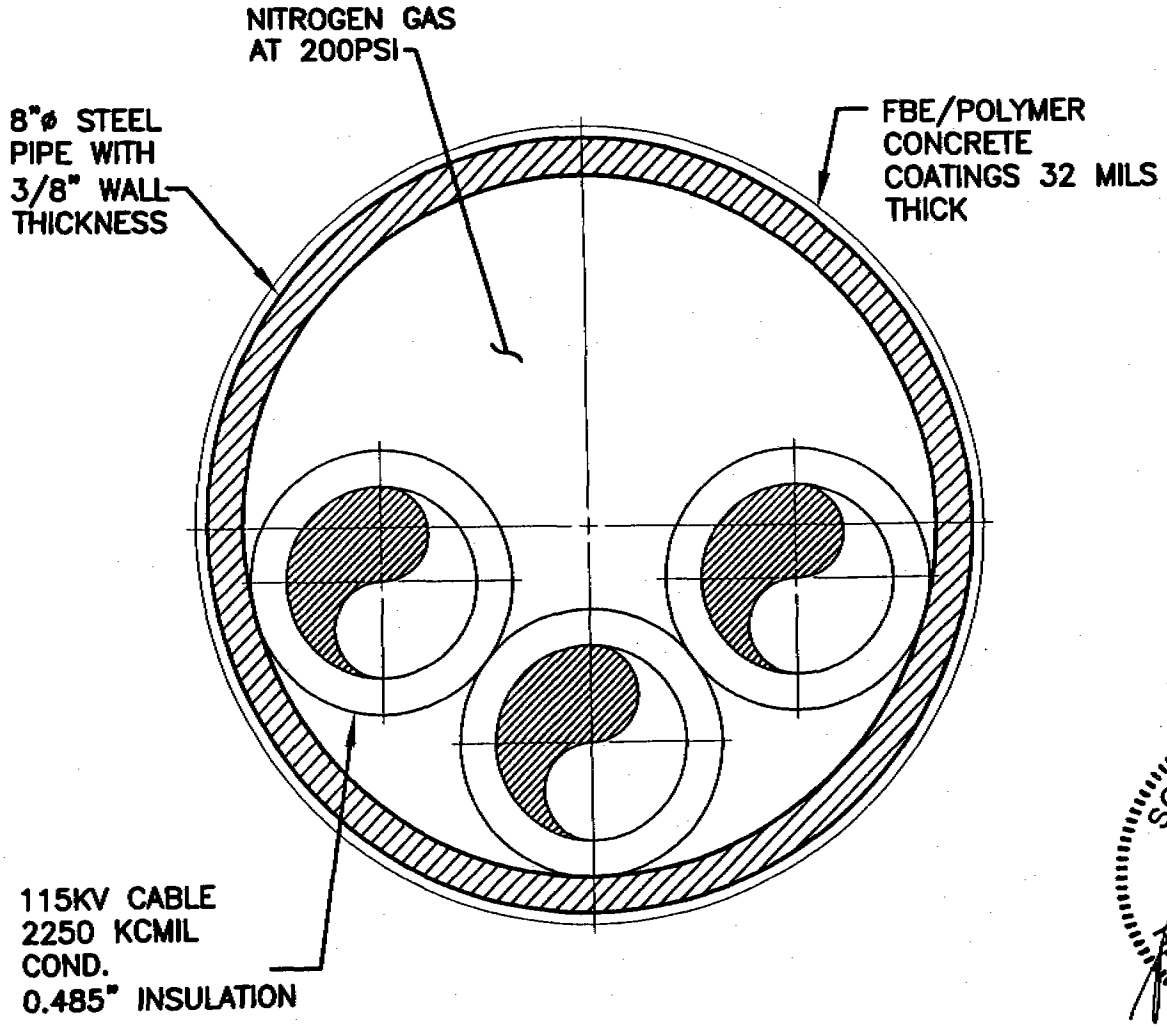
SOUTH CAROLINA PROFESSIONAL ENGINEER AND LAND SURVEYOR No. 11053 R. DAVID BRANTON

3-29-07

PROPOSED ACTIVITY: DIRECTIONAL DRILLING FOR THE INSTALLATION OF UNDERGROUND UTILITIES BY S.C.E.&G.

COUNTY:
CHARLESTON, SOUTH CAROLINA

APPLICANT:
S.C.E.&G. OCRM-07-189-B



SOUTH CAROLINA
PROFESSIONAL ENGINEER AND LAND SURVEYOR
No. 11063
DAVID BRANTON
3-29-07

THOMAS ISLAND – HOBCAW 115kV UNDERGROUND LINE
CROSSING THE BERESFORD CREEK, THE WANDO RIVER,
AND RATHALL CREEK ADJACENT CRITICAL AREA
(a.k.a. SALT MARSH & TRIBUTARIES)

Typical Cross Section 115 kV Pipe-type System

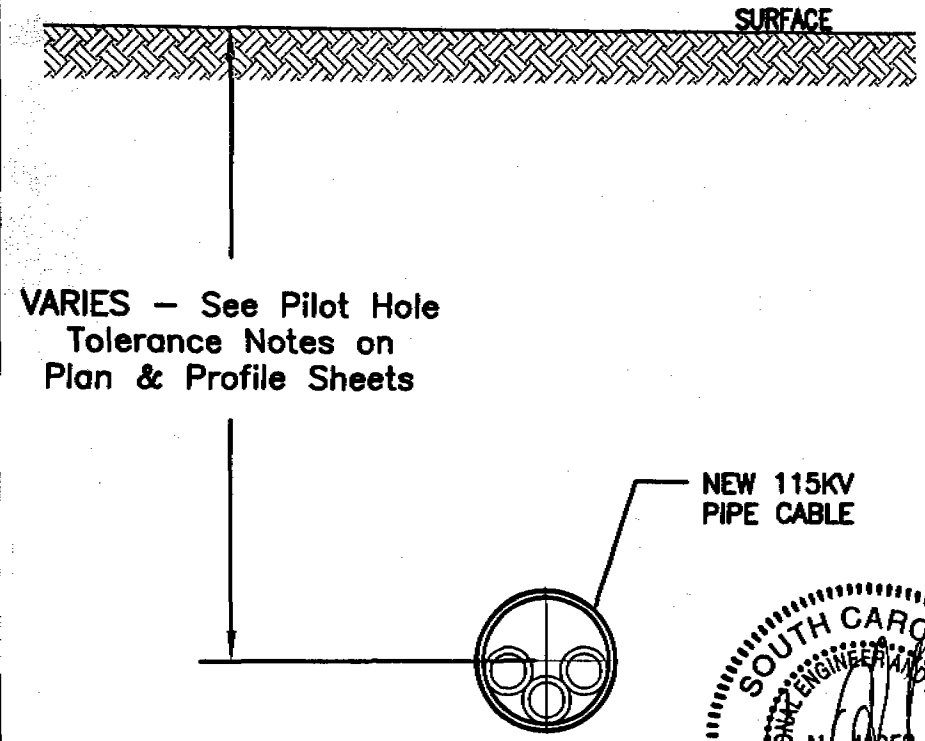
DATE: FEBRUARY 23, 2007
SHEET: 14 of 15
SCALE: N.T.S.

PROPOSED ACTIVITY: DIRECTIONAL DRILLING FOR THE INSTALLATION OF UNDERGROUND UTILITIES BY S.C.E.&G.

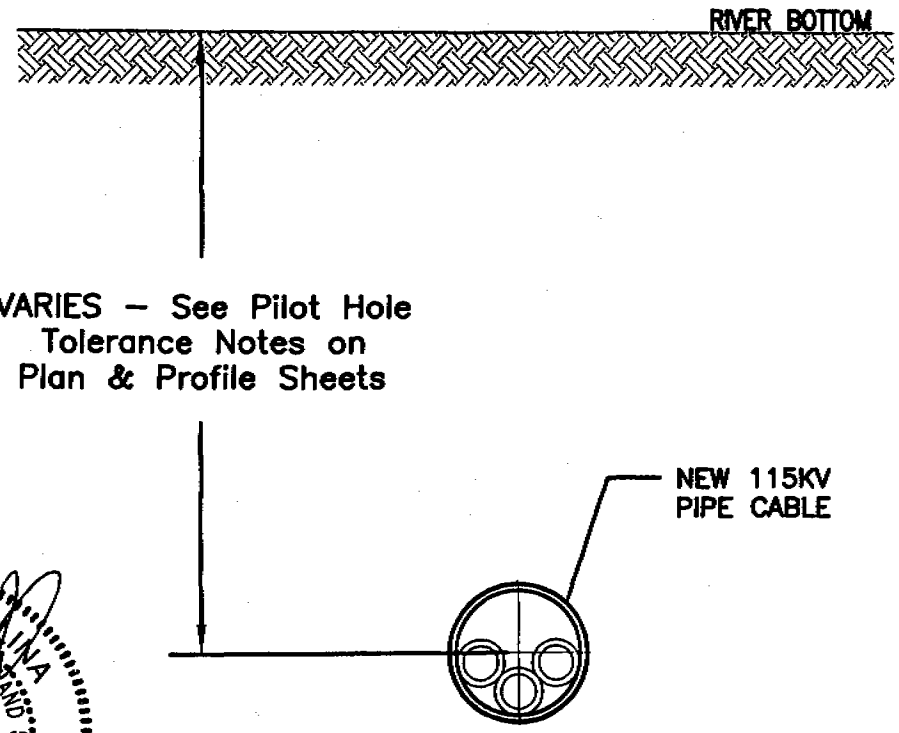
COUNTY:
BERKELEY & CHARLESTON, SOUTH CAROLINA

APPLICANT:
S.C.E.&G.

OCRM-07-189-B



MARSH CROSS SECTION



RIVER CROSS SECTION

SOUTH CAROLINA PROFESSIONAL ENGINEER AND LAND SURVEYOR No. 11053 DAVID BRANTON 3-29-07

THOMAS ISLAND – HOBCAW 115kV UNDERGROUND LINE CROSSING THE BERESFORD CREEK, THE WANDO RIVER, AND RATHALL CREEK ADJACENT CRITICAL AREA (a.k.a. SALT MARSH & TRIBUTARIES)

Cable Section – Typical Views

DATE: FEBRUARY 23, 2007
SHEET: 15 of 15
SCALE: N.T.S.

PROPOSED ACTIVITY: DIRECTIONAL DRILLING FOR THE INSTALLATION OF UNDERGROUND UTILITIES BY S.C.E.&G.

COUNTY:
BERKELEY & CHARLESTON, SOUTH CAROLINA

APPLICANT:
S.C.E.&G. OCRM-07-189-B