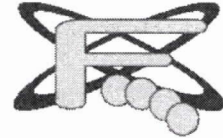


# FRONTIER ENGINEERING, INC.

OFFICE LOCATION

CONSULTING ENGINEERS • LAND PLANNERS

P.O. Box 89683  
Tampa, FL 33689  
Ph: (813) 628-8878  
Fax: (813) 628-8878



October 9, 2003

TS0079  
100.00

Mr. Richard Alt, P.E.  
Southwest Florida Water Management District  
7601 Highway 301 North  
Tampa, FL 33637-6759

RE: Nguyen Dental Office

Dear Mr. Alt:

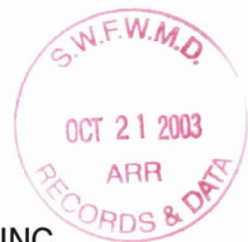
Please find attached, the following documents/check for your review for the Environmental Resource Permit for the above project:

1. Four (4) copies of the ERP Application, Section A.
2. Four (4) copies of Section B with attachments.
3. Four (4) sets of site plans.
4. Application fee One Hundred Dollars (\$100.00) check #2031.
5. One (1) copy of warranty deed.

If you have any questions, please call me at (813) 628-8878.

Sincerely,  
FRONTIER ENGINEERING, INC.

Timothy J. Healey, P.E.  
Project Manager



47026126.000

T50079  
100.00

**FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION/  
WATER MANAGEMENT DISTRICTS/  
U.S. ARMY CORPS OF ENGINEERS**

---

**JOINT APPLICATION FOR  
ENVIRONMENTAL RESOURCE PERMIT/  
AUTHORIZATION TO USE  
STATE OWNED SUBMERGED LANDS/  
FEDERAL DREDGE AND FILL PERMIT**



1



*[Handwritten signature]*



2

ENVIRONMENTAL RESOURCE PERMIT APPLICATION

SOUTHWEST FLORIDA WATER MANAGEMENT DISTRICT

2379 BROAD STREET • BROOKSVILLE, FL 34609-6899 (904) 796-7211 OR FLORIDA WATS 1 (800) 423-1476

FOR AGENCY USE ONLY

ACOE Application # \_\_\_\_\_ DEP/WMD Application # \_\_\_\_\_
Date Received \_\_\_\_\_ Date Received \_\_\_\_\_
Proposed Project Latitude \_\_\_\_\_ Fee Received \$ \_\_\_\_\_
Proposed Project Longitude \_\_\_\_\_ Fee Receipt # \_\_\_\_\_

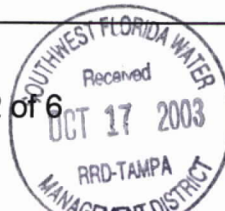
SECTION A

PART 1:

Are any of the activities described in this application proposed to occur in, on, or over wetlands or other surface waters? [ ] yes [x] no
Is this application being filed by or on behalf of an entity eligible for a fee reduction? [ ] yes [x] no

PART 2:

- A. Type of Environmental Resource Permit Requested (check at least one)
[x] Noticed General - include information requested in Section B.
[ ] Standard General (single family dwelling)-include information requested in Sections C and D.
[ ] Standard General (all other projects) - include information requested in Sections C and E.
[ ] Standard General (minor systems) - include information requested in Sections C and H.
[ ] Standard General (borrow pits) - include information requested in Sections C and I.
[ ] Individual (single family dwelling) - include information requested in Sections C and D.
[ ] Individual (all other projects) - include information requested in Sections C and E.
[ ] Individual (borrow pits) - include information requested in Sections C and I.
[ ] Conceptual - include information requested in Sections C and E.
[ ] Mitigation Bank (construction) - include information requested in Section C and F.
(If the proposed mitigation bank involves the construction of a surface water management system requiring another permit listed above, check the appropriate box and submit the information requested by the applicable section.)
[ ] Mitigation Bank (conceptual) - include information requested in Section C and F.
B. Type of activity for which you are applying (check at least one)
[x] Construction or operation of a new system, including dredging or filling in, on or over wetlands and other surface waters. (If reapplying for an expired, denied or withdrawn permit/ application, please provide previous permit # \_\_\_\_\_.)
[ ] Alteration or operation of an existing system which was not previously permitted by SWFWMD or DEP.
[ ] Modification of a system previously permitted by SWFWMD or DEP. Provide previous permit # \_\_\_\_\_ and check applicable modification type.
[ ] Alteration of a system [ ] Extension of permit duration [ ] Abandonment of a system
[ ] Construction of additional phases of a system [ ] Removal of a system
C. Are you requesting authorization to use State Owned Submerged Lands. [ ] yes [x] no
If yes, include the information requested in Section G.
D. For activities in, on or over wetlands or other surface waters, check type of federal dredge and fill permit requested:
[ ] Individual [ ] Programmatic General [ ] General [ ] Nationwide [x] Not Applicable
E. Are you claiming to qualify for an exemption? [ ] yes [x] no
If yes, provide rule number if known



--

<b>PART 3:</b>	
<b>A. OWNER(S) OF LAND</b>	<b>B. APPLICANT (IF OTHER THAN OWNER)</b>
NAME BAO V. NGUYEN, D.D.S.	NAME
COMPANY AND TITLE	COMPANY AND TITLE
ADDRESS 1023 MARCO DRIVE NE	ADDRESS
CITY, STATE, ZIP ST. PETERSBURG, FL 33702	CITY, STATE, ZIP
TELEPHONE (727) 323-0377 FAX (727) 323-3989	TELEPHONE ( ) FAX ( )
<b>C. AGENT AUTHORIZED TO SECURE PERMIT (IF AN AGENT IS USED)</b>	<b>D. CONSULTANT (IF DIFFERENT FROM AGENT)</b>
NAME	NAME TIMOTHY J. HEALEY, P.E.
COMPANY AND TITLE	COMPANY AND TITLE FRONTIER ENGINEERING, PROJECT MANAGER
ADDRESS	ADDRESS P.O. BOX 89683
CITY, STATE, ZIP	CITY, STATE, ZIP TAMPA, FL 33689
TELEPHONE ( ) FAX ( )	TELEPHONE (813) 628-8878 FAX (813) 628-8878

**PART 4: PROJECT INFORMATION**

A. Name of project, including phase if applicable: NGUYEN DENTAL, 49<sup>TH</sup> STREET

B. Is this application for part of a multi-phase project?  yes  no

C. Total applicant-owned area contiguous to the project: 0.00-0.17 acres

D. Total project area for which a permit is sought: 0.17 acres

E. Total impervious area for which a permit is sought: 0.11 acres

F. Total area (metric equivalent for federally funded projects) of work in, on, or over wetlands or other surface waters: 0 acres or \_\_\_\_\_ square feet (\_\_\_\_\_ hectares or \_\_\_\_\_ square meters)

G. Total number of new boat slips proposed: 0



**PART 5: PROJECT LOCATION** (use additional sheets, if needed)

County(ies) PINELLAS  
Section(s) 09 Township 31 Range 16  
Section(s) \_\_\_\_\_ Township \_\_\_\_\_ Range \_\_\_\_\_  
Land Grant name, if applicable \_\_\_\_\_  
Tax Parcel Identification Number 09-31-16-  
Street address, road, or other location 4900 34<sup>TH</sup> AVENUE NORTH  
City, Zip Code, if applicable St. Petersburg, FL

**PART 6: DESCRIBE IN GENERAL TERMS THE PROPOSED PROJECT, SYSTEM, OR ACTIVITY.**

The proposed *Nguyen Dental 49<sup>th</sup> Street* project is located at 4900 34<sup>th</sup> Avenue North in St. Petersburg, Florida. The scope of this project involves the construction of a 1,472 SF dental office with associative parking (3,208 SF) on a 0.17-acre site. The existing building (1,080 SF) and paving (321 SF) will be demolished. The project result in a net increase in impervious area of 3,279 SF (392 SF building / 2,887 SF paving). Perimeter swales will be constructed onsite to provide treatment and control of stormwater discharge.



**PART 7:**

**A.** If there have been any pre-application meetings for the proposed project, with regulatory staff, please list the date(s), location(s), and names of key staff and project representatives.

N/A

Date(s)	Location(s)	Names
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____

**B.** Please identify by number any MSSW/WRM (dredge & fill)/ERP/ACOE permits or applications pending, issued or denied and any related enforcement actions at the proposed project site. N/A

Agency	Date	Number/ Type	Action Taken
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

**C.** Note: The following information is required for projects proposed to occur in, on or over wetlands that need a federal dredge and fill permit and/or authorization to use state owned submerged lands. Please provide the names, addresses and zip codes of property owners whose property directly adjoins the project (excluding applicant) and/or is located within a 500 foot radius of the project boundary (for proprietary authorizations, if any). Please provide a drawing identifying each owner and adjoining property lines. (Use additional sheets, if needed). N/A

- |    |       |    |       |
|----|-------|----|-------|
| 1. | _____ | 2. | _____ |
|    | _____ |    | _____ |
|    | _____ |    | _____ |
|    | _____ |    | _____ |
| 3. | _____ | 4. | _____ |
|    | _____ |    | _____ |
|    | _____ |    | _____ |
|    | _____ |    | _____ |
| 5. | _____ | 6. | _____ |
|    | _____ |    | _____ |
|    | _____ |    | _____ |
|    | _____ |    | _____ |



**PART 8:**

**A.** By signing this application form, I am applying, or I am applying on behalf of the owner or applicant, for the permit and/or proprietary authorizations identified above, according to the supporting data and other incidental information filed with this application. I am familiar with the information contained in this application, and represent that such information is true complete and accurate. I understand that knowingly making any false statement or representation in the application is a violation of Section 373.430, F.S. and 18 U.S.C. Section 1001. I understand this is an application and not a permit and work prior to approval is a violation. I understand that this application and any permit or proprietary authorization issued pursuant thereto, does not relieve me of any obligation for obtaining any other required federal, state, water management district or local permit prior to commencement of construction. I agree, or I agree on behalf of the owner or applicant, to operate and maintain the permitted system unless the permitting agency authorizes transfer of the permit to a responsible operation entity.

BAO V. NGUYEN  
Typed/Printed Name of Owner, Applicant or Agent Corporate Title, if applicable  
Bao Nguyen  
Signature of Owner, Applicant or Agent 10-5-03  
Date

**B. AN AGENT MAY SIGN ABOVE ONLY IF THE FOLLOWING IS COMPLETED:**

I hereby designate and authorize the agent listed above to act on my behalf, or on behalf of my corporation, as the agent in the processing of this application for the permit and/or proprietary authorization indicated above; and to furnish, on request, supplemental information in support of the application. In addition, I authorize the above-listed agent to bind me, or my corporation, to perform any requirement which may be necessary to procure the permit or authorization indicated above.

\_\_\_\_\_  
Typed/Printed Name of Owner or Applicant Corporate Title, if applicable  
\_\_\_\_\_  
Signature of Owner or Applicant Date

**C. PERSON AUTHORIZING ACCESS TO THE PROPERTY MUST COMPLETE THE FOLLOWING:**

I either own the property described in this application or I have legal authority to allow access to the property, and I consent, after receiving prior notification, to any site visit on the property by agents or personnel from the Department of Environmental Protection, the Southwest Florida Water Management District and the U.S. Army Corps of Engineers necessary for the review and inspection of the proposed project specified in this application. I authorize these agents or personnel to enter the property as many times as may be necessary to make such review and inspection. Further, I agree to provide entry to the project site for such agents or personnel to monitor authorized work if a permit is granted.

BAO V. NGUYEN  
Typed/Printed Name Corporate Title, if applicable  
Bao Nguyen  
Signature 10-5-03  
Date

**D.** I certify that the engineering features of this surface water management system have been designed by me or under my responsible charge and in my professional opinion conform with sound engineering principles and all applicable rules and specifications. I further agree that I or my engineering firm will furnish the applicant/ permittee with a set of guidelines and schedules for maintenance and operation of the surface water management system.

By: [Signature]  
Signature of Engineer of Record  
TIMOTHY J. HEALEY, P.E. 53661  
Name (please type) FL P.E. No.  
FRONTIER ENGINEERING, INC.  
Company Name  
P.O. BOX 89683  
Company Address  
TAMPA, FL 33689  
City, State, Zip

Date: 10/6/03

Phone: (813) 628-8878

• AFFIX SEAL •



302  
1050  
8250  
9300

This document prepared by and return to:  
Alday-Donalson Title Agencies of America, Inc.  
5301 Central Avenue  
St. Petersburg, Florida 33710

Our File #7-03-0172

PAGES 1  
ACCT \_\_\_\_\_  
REC 610  
DR219 18250  
DS \_\_\_\_\_  
INT \_\_\_\_\_  
FEES \_\_\_\_\_  
MTP \_\_\_\_\_  
P/C \_\_\_\_\_  
REV \_\_\_\_\_

TOTAL 18250  
CK BAL \_\_\_\_\_  
G AMT \_\_\_\_\_

HENRY F. DE REKETT, CLERK OF COURT  
PINELLAS COUNTY, FLORIDA

N1057088 05-02-2003 11:55:51 RLD  
51 DED-BRAYER  
028105  
IH:03176707 BK:12715 SPG:2154 EPG:2154  
RECORDING 001 PAGES 1 \$6.30  
DOC STAMP - DR219 3 \$682.50

TOTAL: \$688.50  
CHECK AMT. TENDERED: \$688.50  
CHANGE: \$0.00

BY [Signature] DEPUTY CLERK

PERSONAL REPRESENTATIVE'S DEED

TS0079

This Indenture, is made this April 30, 2003, by and between HENRY F. REKETT, SR., INDIVIDUALLY AND AS PERSONAL REPRESENTATIVE OF THE ESTATE OF BRUCE V. REKETT, deceased, grantor, whose Post Office Address is: 7937 3rd Avenue South, St. Petersburg, Florida 33707 and BAO VAN NGUYEN and PHUC PHAN NGUYEN and CINDY NGUYEN BRAYER AS JOINT TENANTS WITH RIGHT OF SURVIVORSHIP, whose address is 1023 MARCO DRIVE N.E. ST. PETERSBURG FLORIDA 33702 of the County of Pinellas, State of Florida, Grantees.

Witnesseth: Grantor(s), pursuant to the terms of decedents Will and in consideration of the sum of One Dollar (\$1.00) paid to Grantor(s) by Grantee(s) receipt of which is acknowledged, grants, bargains and sells to Grantee(s) and Grantee's heirs and assigns forever, the real property in Pinellas, County, Florida, described as:

03-176707 MAY- 2-2003 11:56AM  
PINELLAS CO BK 12715 PG 2154



The North 75 feet of Lot 1, Block A, ALEXANDRA'S REPLAT, according to the map or plat thereof, as recorded in Plat Book 103, Page 64, of the Public Records of Pinellas County, Florida, formerly known as Lots 10, 11 and 12, MARGUERITE SUBDIVISION, according to the map or plat thereof as recorded in Plat Book 12, Page 13, of the Public Records of Pinellas County, Florida.

THIS IS NOT THE HOMESTEAD PROPERTY OF HENRY F. REKETT, SR.

Together with all and singular the tenements, hereditaments, and appurtenances belonging or in anywise appertaining to the real property.

To Have And To Hold the same to Grantee(s), and Grantee(s), heirs and assigns, in fee simple forever.

And Grantor(s) do covenant to and with the Grantee(s) and Grantee's heirs and assigns, that in all things preliminary to and in and about this conveyance, the terms of decedents Will and the laws of the State of Florida have been followed and complied with in all respects.

In Witness Whereof, the undersigned, as personal representative of the estate of said decedent, has executed this instrument under seal on the date aforesaid.

Signed, sealed and delivered in our presence:

[Signature]  
Witness

[Signature]  
HENRY F. REKETT, SR. INDIVIDUALLY AND AS  
PERSONAL REPRESENTATIVE OF THE ESTATE OF  
BRUCE V. REKETT

Richard A. Stubbels  
Witness Name Printed

[Signature]  
Witness

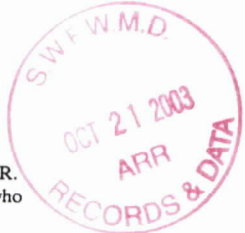
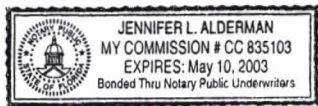
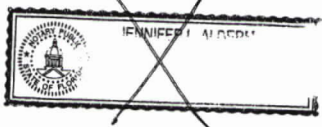
JENNIFER L. ALDERMAN  
Witness Name Printed

STATE OF: Florida  
COUNTY OF: Pinellas

I hereby certify that the foregoing instrument was acknowledged before me on April 30, 2003, by HENRY F. REKETT, SR. INDIVIDUALLY AND AS PERSONAL REPRESENTATIVE OF THE ESTATE OF BRUCE V. REKETT, deceased, who is personally known to me or has produced A DRIVER'S LICENSE as identification, and who did/did not take an oath.

[Signature]  
Notary  
Printed Name: JENNIFER L. ALDERMAN

My commission expires: \_\_\_\_\_



Imaged As Is

Deed Personal Representative's Deed with Will  
Closer's Choice

47026126.000



TS0079

PERMIT INQUIRY CHECKLIST

1.	Land Owner(s)	Agent (If Different from Land Owner)
	Representative's Name:	Representative's Name:
	<u>Bao V. Nguyen</u>	<u>Timothy J. Healey, P.E.</u>
	Company Name:	Company Name:
	_____	<u>Frontier Engineering, Inc.</u>
	Address:	Address:
	<u>1023 Marco Drive NE</u>	<u>P.O. Box 89683</u>
	<u>St. Petersburg, FL 33702</u>	<u>Tampa, FL 33689</u>
	Phone #: <u>(727) 323-0377</u>	Phone #: <u>(813) 628-8878</u>

2. Project Name Nguyen Dental Office

County Pinellas Sec/Twp/Rge 09 / 31S / 16E

3.	Existing:	Proposed:
	Pavement, Sidewalk, etc.: <u>321 SF</u>	Pavement, Sidewalk, etc.: <u>3,208 SF</u>
	Building: <u>1,080 SF</u>	Building: <u>1,472 SF</u>
	Grass, Open Area: <u>6,099 SF</u>	Grass, Open Area: <u>2,820 SF</u>

- ◆ Submit a brief narrative describing the proposed construction activities.  
*See attachments.*
- ◆ Submit an aerial photograph with the project area (proposed construction area) and total land area (total land area of ownership) delineated.  
*See attachments.*
- ◆ Submit detailed construction drawings to clearly illustrate the proposed construction activities.  
*See attachments.*
- ◆ Are there any wetlands in or adjacent to the project area? If so, please contact John Emery, Environmental Scientist Manager, at (813) 985-7481, extension 2006, to discuss your project.  
*No wetlands.*
- ◆ Other useful documentation to expedite your permit inquiry review includes the Natural Resources Conservation Service (NRCS) soil survey and the Flood Insurance Rate Map (FEMA) with the project boundary delineated on each.  
*See attachments.*



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# Nguyen Dental Office

## *Project Data*



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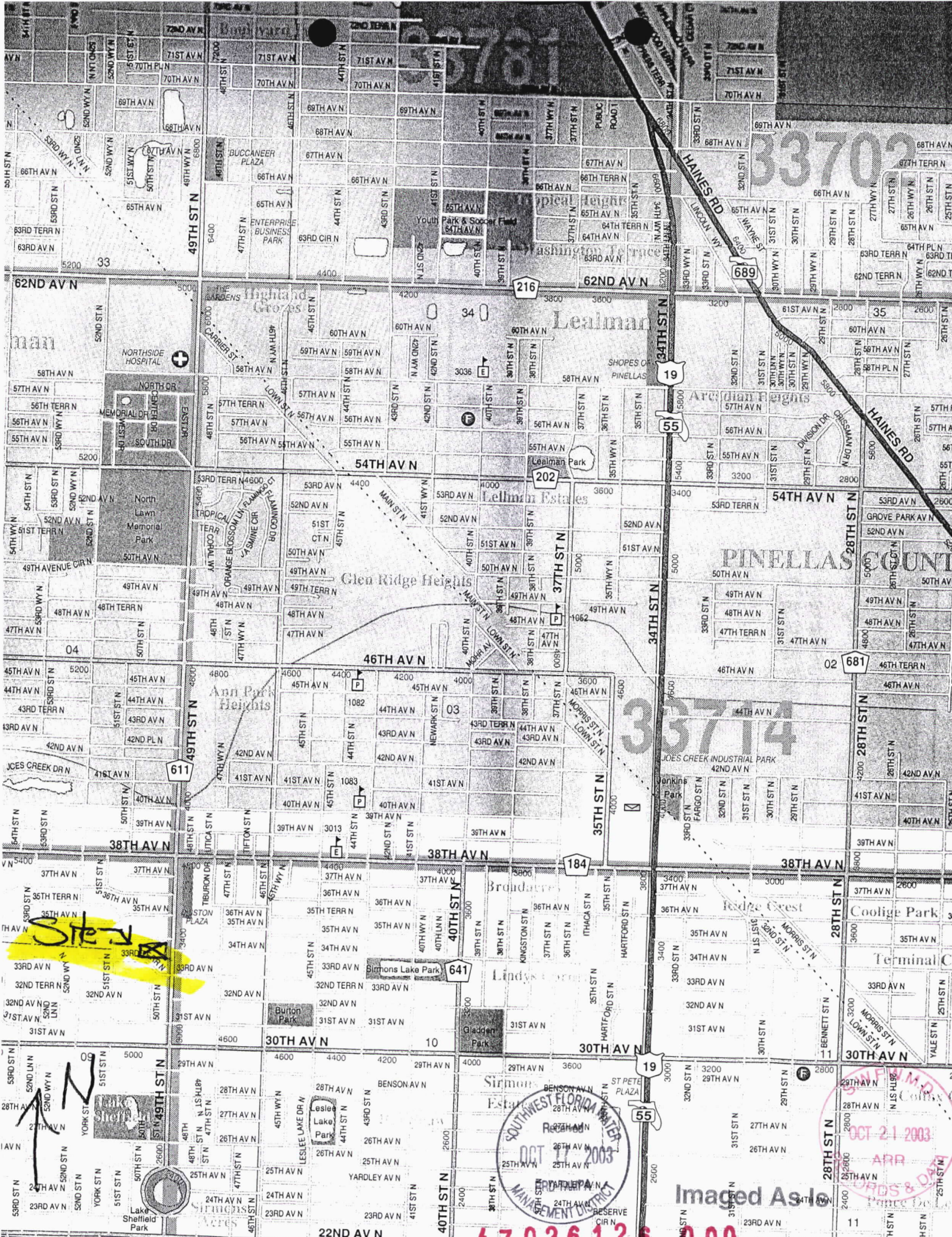
# Nguyen Dental Office

## *Narrative*

The proposed *Nguyen Dental 49<sup>th</sup> Street* project is located at 4900 34<sup>th</sup> Avenue North in St. Petersburg, Florida. The scope of this project involves the construction of a 1,472 SF dental office with associative parking (3,208 SF) on a 0.17-acre site. The existing building (1,080 SF) and paving (321 SF) will be demolished. The project will result in a net increase in impervious area of 3,279 SF (392 SF building / 2,887 SF paving). Perimeter swales will be constructed onsite to provide some treatment and control of stormwater discharge.



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33702

33714

SOUTHWEST FLORIDA WATER RESOURCES  
OCT 17 2003

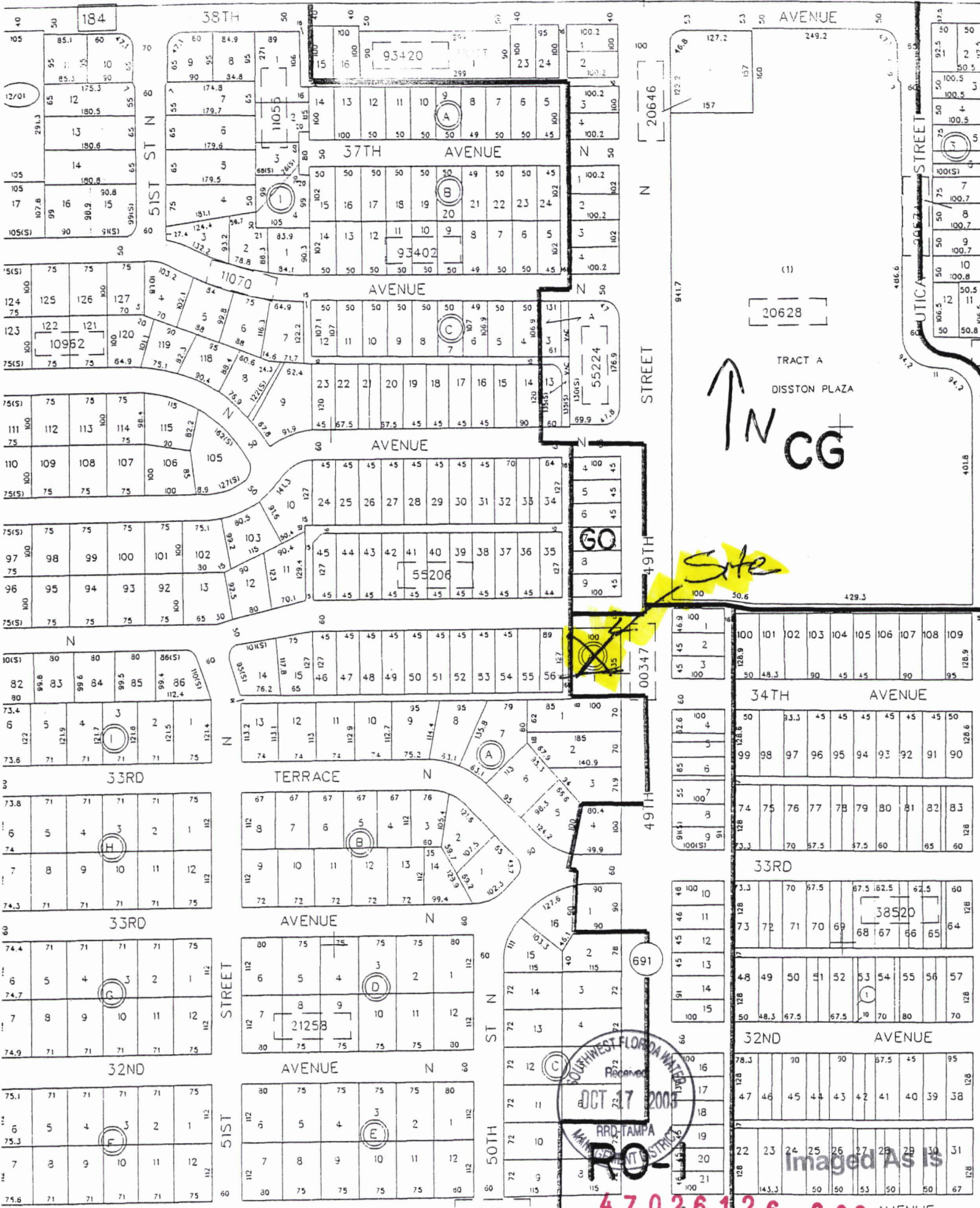
SIMPSON, M.D. County Clerk  
OCT 21 2003

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Site A

YORK ST  
51ST ST  
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23RD ST  
22ND ST



↑ N  
CG

Site

SW FLORIDA WATER BOARD  
 Received  
 OCT 27 2005  
 RRD-TAMPA  
 MAIL ROOM

47026126.000 AVENUE

Imaged As Is

JE NORTH

ORTH

Handwritten yellow annotations: "5511" and "5512" with arrows pointing to specific locations on the map.



47028126-000

46th STREET NORTH

ac AG 1s

NATIONAL FLOOD INSURANCE PROGRAM

**FIRM**  
FLOOD INSURANCE RATE MAP

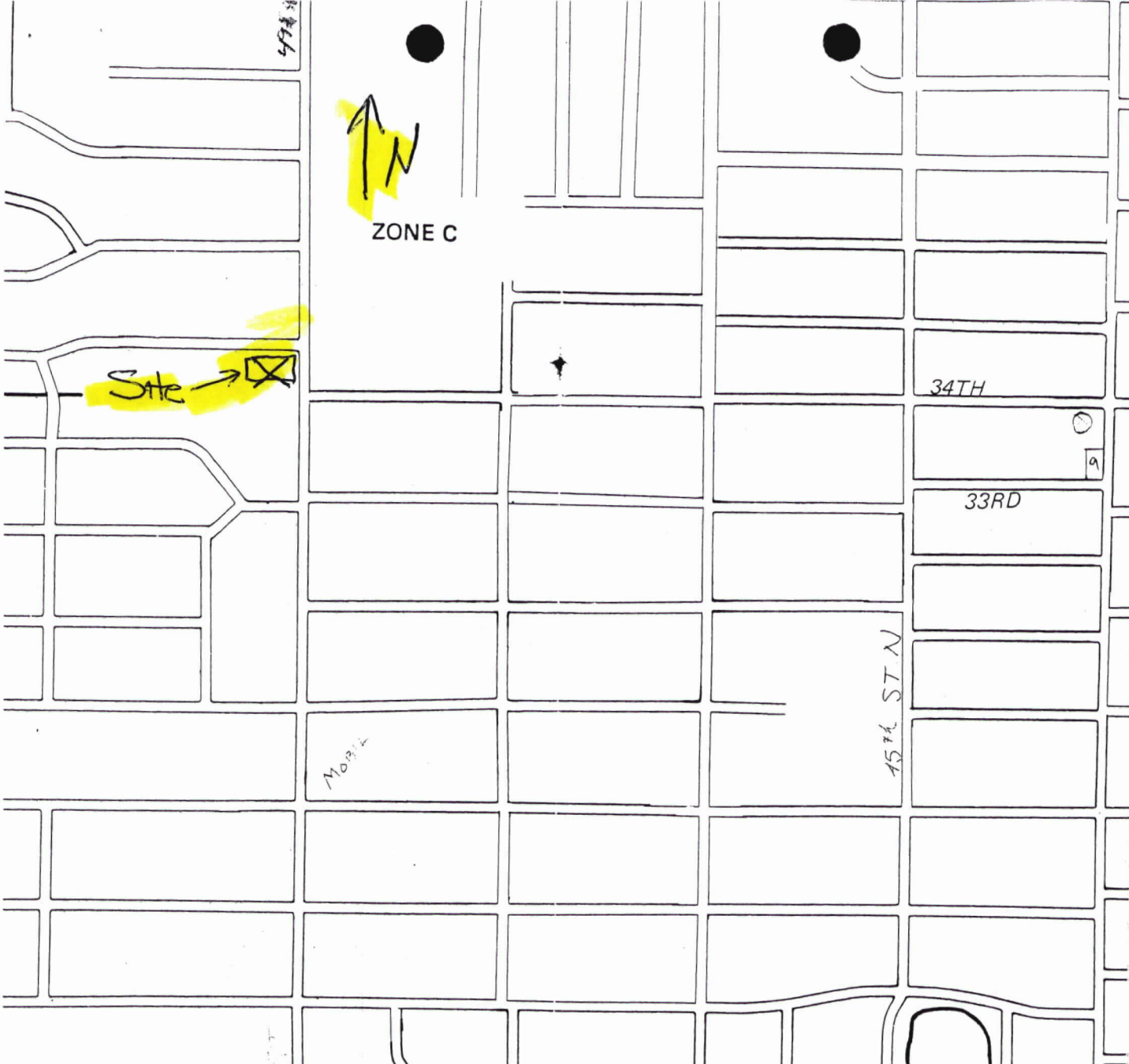
CITY OF  
**ST. PETERSBURG,**  
**FLORIDA**  
PINELLAS COUNTY

**PANEL 13 OF 38**  
(SEE MAP INDEX FOR PANELS NOT PRINTED)

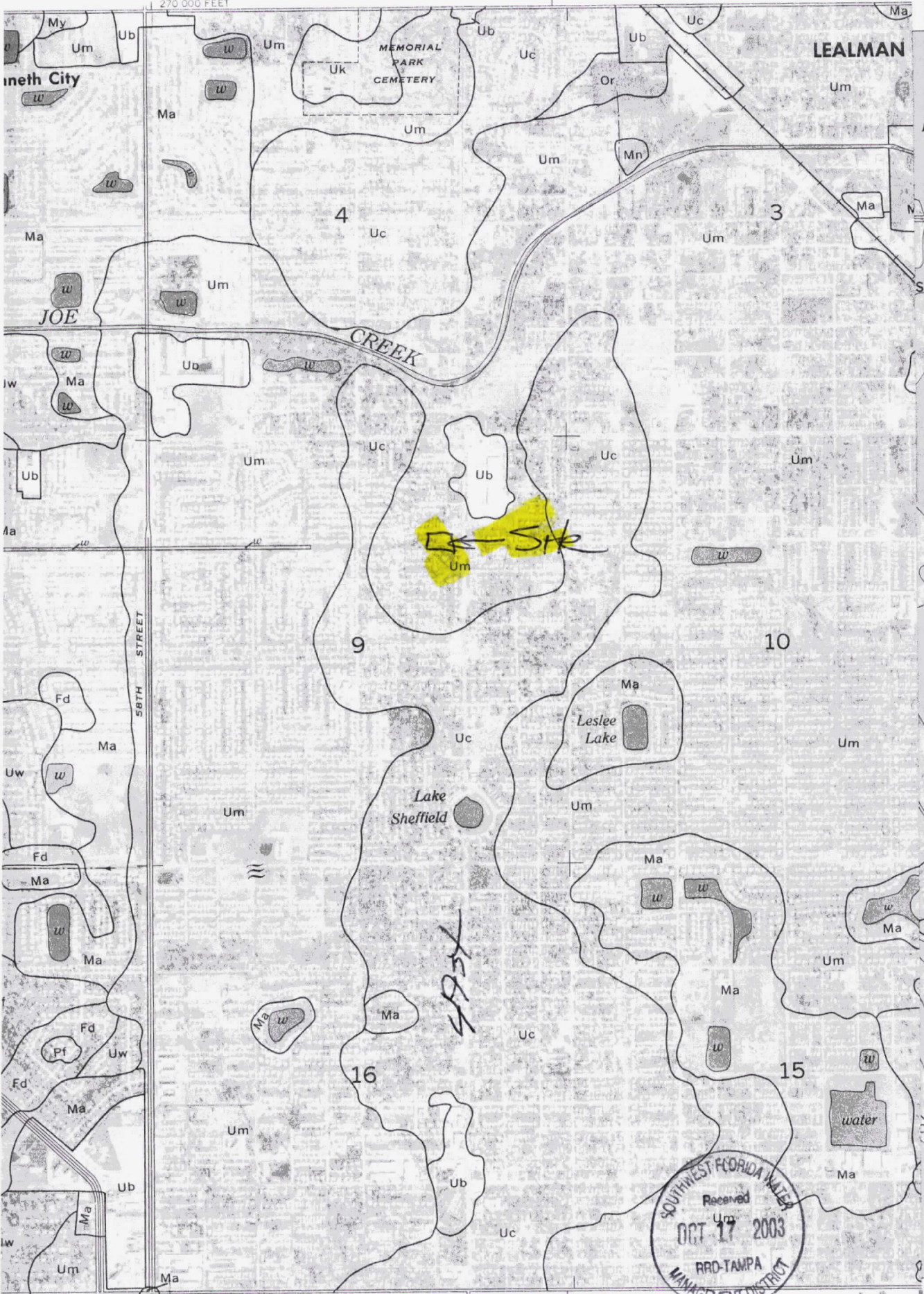


**COMMUNITY-PANEL NUMBER**  
125148 0013 7

MAP  
SEPTEMBER



270 000 FEET



SOUTHWEST FLORIDA WATER  
 Received  
 OCT 17 2003  
 RRD-TAMPA  
 MANAGEMENT DISTRICT

S.W.F.W.M.D.  
 OCT 21 2003  
 ARR  
 RECORDS & DATA

Imaged As Is

47026126.000



any mapped area. (No capability or woodland classification)

**Urban land-Myakka complex (Um).**—About 30 to 50 percent of this complex is Myakka fine sand, of which 15 to 30 percent has been modified by cutting, grading, and shaping. About 25 to 40 percent of this complex is Urban land that is covered with houses, industrial buildings, other structures, and pavement. Spoil materials from drainage canals and from street excavations have been used to fill low areas or spread on the surface of other soils.

Included in mapping are small areas of Adamsville, Astatula, and Immokalee soils that make up no more than 15 percent of any mapped area. Small areas of Made land and small areas more than 75 percent of which are covered with urban facilities also are included. (No capability or woodland classification)

**Urban land-Pomello complex (Up).**—About 25 to 55 percent of this complex is Pomello soils, of which 10 to 25 percent has been modified by cutting, grading, and shaping. About 25 to 40 percent of this complex is Urban land that is covered with houses, industrial buildings, other structures, and pavement. Spoil material from grading and leveling operations has been used to fill low areas or has been spread over the surface of other soils.

Included in mapping are small areas of Astatula fine sand, Immokalee fine sand, and Myakka fine sand that make up no more than 15 percent of any mapped area. As much as 75 percent of a few small areas is covered with structures and pavement. (No capability or woodland classification)

**Urban land-Wabasso complex (Uw).**—About 35 to 55 percent of this complex is Wabasso fine sand, of which 10 to 30 percent has been modified by cutting, grading, and shaping. About 25 to 40 percent of this complex is Urban land that is covered with houses, industrial buildings, other structures, and pavement. Spoil material from drainage canals and from street grading has been used to fill low areas or has been spread on the surface of other soils.

Included in mapping are areas of Oldsmar fine sand that make up as much as 15 percent of some mapped areas, and small areas of Pinellas fine sand and Elred fine sand that make up about 5 percent. (No capability or woodland classification)

## Wabasso Series

The Wabasso series consists of nearly level, poorly drained sandy soils that formed in beds of sandy and loamy marine sediments. These soils are on broad low ridges in the flatwoods.

Typically, the surface layer is black fine sand about 5 inches thick. Below this is gray, loose, leached fine sand about 22 inches thick. It has a few vertical streaks of very dark gray along root channels. The next layer is black, weakly cemented, very friable fine sand 5 inches thick. Next is dark-brown, very friable fine sand that contains fragments of black, weakly cemented fine sand. This is underlain by dark grayish-brown fine sandy clay loam mottled with olive brown; it is about 6 inches thick. Below this is coarsely mottled dark-brown, olive-brown, and grayish-brown fine sandy loam about 6 inches thick. Light-gray sand mixed with shell fragments is between

depths of about 50 inches and 62 inches. Reaction is very strongly acid to a depth of about 27 inches, slightly acid between 27 and 32 inches, medium acid between 32 and 38 inches, slightly acid between 38 and 50 inches, and mildly alkaline below this depth. The water table normally is at a depth of about 25 inches.

Wabasso soils have low available water capacity, low organic-matter content, and low natural fertility. Permeability is rapid to a depth of 27 inches, moderate between 27 and 50 inches, and rapid below this depth.

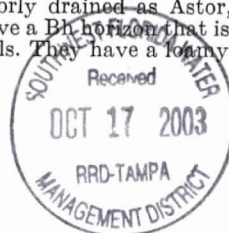
Representative profile of Wabasso fine sand:

- A1—0 to 5 inches, black (10YR 2/1) fine sand; weak, fine, crumb structure; very friable; mixture of organic matter and light-gray sand grains; many fine and medium roots; very strongly acid; gradual, smooth boundary.
- A2—5 to 27 inches, gray (10YR 6/1) fine sand; single grain; loose; few fine and medium roots; few vertical streaks of very dark gray along root channels; very strongly acid; clear, smooth boundary.
- B2h—27 to 32 inches, black (5YR 2/1) fine sand; massive; firm; weakly cemented, crushes easily with slight pressure; sand grains well coated with organic matter; many fine and medium roots; few gray streaks along root channels; slightly acid; clear, smooth boundary.
- B3 & Bh—32 to 38 inches, dark-brown (7.5YR 3/2) fine sand; weak, fine, crumb structure; very friable; most sand grains coated with organic matter; common fine roots; weakly cemented; common fragments of black (5YR 2/1) along root channels; medium acid; gradual, smooth boundary.
- B'21t—38 to 44 inches, dark grayish-brown (10YR 4/2) fine sandy clay loam; common, medium and coarse, distinct, olive-brown (2.5Y 4/4) mottles; moderate, medium, subangular blocky structure; firm; many fine and medium roots; sand grains are bridged and coated with clay; slightly acid; abrupt, smooth boundary.
- B'22t—44 to 50 inches, coarsely mottled, dark-brown (10YR 3/3), olive-brown (2.5Y 4/4), and grayish-brown (2.5Y 5/2) fine sandy loam; weak, moderate, subangular blocky structure; slightly sticky; common fine roots; sand grains are bridged and coated with clay; slightly acid; clear, wavy boundary.
- IIC—50 to 62 inches, light-gray (2.5Y 7/2) sand and shell fragments; single grain; loose; mildly alkaline; calcareous.

The A1 horizon ranges from dark gray to black and is 4 to 7 inches thick. The A2 horizon is gray to light-gray sand or fine sand and is 10 to 23 inches thick. Depth to the B2h horizon is 20 to 30 inches. This horizon is dark reddish-brown, dark-brown, or black sand or fine sand and is 4 to 12 inches thick. The Bh horizon ranges from slightly acid to very strongly acid. In many places a B3 & Bh horizon, 4 to 6 inches thick, is below the Bh horizon. It is dark-brown to dark grayish-brown sand and has black, weakly cemented nodules of sand scattered through it. The B'2t horizon occurs at depths of 29 to 40 inches. It is gray to dark grayish-brown and brownish-yellow sandy loam or sandy clay loam and is mottled with gray, olive, olive brown, grayish brown, brownish yellow, and strong brown. The lower part of the B'2t horizon is more strongly mottled and, in places, contains carbonate along root channels and light-gray to white secondary carbonate material. The B't horizon ranges from medium acid to mildly alkaline. A IIC horizon of gray sand mixed with shell fragments occurs below the B'2t horizon, commonly within a depth of 60 inches. In places the IIC horizon is as much as 15 feet thick. The water table is within a depth of 10 inches for 1 or 2 months during wet seasons. The rest of the year it is at a depth of 10 to 40 inches.

The Wabasso soils mapped in Pinellas County have a B horizon that is less acid than the range defined for the series. This difference does not appreciably affect use or management.

Wabasso soils are associated with Astor, Elred, Felda, Manatee, Myakka, Oldsmar, and Pompano soils. They are not so poorly drained as Astor, Pompano, and Manatee soils. They have a Bt horizon that is lacking in Elred, Felda, and Pompano soils. They have a loamy Bt horizon that is lacking in Myakka



Imaged As Is

47026126.000

**SOUTHWEST FLORIDA  
WATER MANAGEMENT DISTRICT**

7601 HIGHWAY 301 NO., TAMPA, FL 33637



**DISTRICT RECEIPT NO. TA04-00222A**

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Date: 10/20/2003

Counter Receipt

Descr: ERP PERMIT FEES

Re: TS0079

Paid By: CHECK

Chk. Date: 10/05/2003

Chk. No.: 2031

Amount: \$100.00

PHUC NGUYEN

1023 MARCO DRIVE NE

ST PETERSBURG, FL 33702



— MICHAEL BENCH  
Cashier

Add'l Info: NGUYEN DENTAL- 49TH STREET

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47026126.000